



IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-3R-LED-23L-45-IC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTLAB] EVERFINE
[TESTDATE] 2016-09-06
[ISSUEDATE] 11/15/2019
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] TEL22-3R-LED-23L-45-IC
[_SEARCH_ SOURCETYPE] LED
[_SEARCH_ APPLICATION] Outdoor
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25500
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	288
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	27128
Maximum Candela Angle	230H 70V
Maximum Candela (<90 Degrees Vertical)	27128
Maximum Candela Angle (<90 Degrees Vertical)	230H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	509 (2.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2122.5	N.A.	8.3
FM - Front-Medium (30-60)	6329.0	N.A.	24.8
FH - Front-High (60-80)	3607.4	N.A.	14.1
FVH - Front-Very High (80-90)	33.9	N.A.	0.1
BL - Back-Low (0-30)	2124.4	N.A.	8.3
BM - Back-Medium (30-60)	6829.0	N.A.	26.8
BH - Back-High (60-80)	4394.2	N.A.	17.2
BVH - Back-Very High (80-90)	59.1	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	25499.5	N.A.	100.0
BUG Rating	B4-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	4605	4551	4496	4442	4388	4336	4285	4233	4182	4137
5.0	4674	4566	4457	4348	4239	4136	4033	3931	3828	3739
7.5	4679	4516	4353	4190	4026	3887	3747	3607	3467	3359
10.0	4683	4466	4249	4031	3814	3637	3460	3283	3106	2980
12.5	4682	4414	4145	3876	3608	3412	3216	3021	2825	2704
15.0	4681	4361	4042	3722	3402	3187	2973	2759	2544	2429
17.5	4666	4303	3940	3576	3213	2992	2772	2551	2331	2252
20.0	4652	4245	3838	3431	3024	2797	2571	2344	2117	2076
22.5	4593	4153	3714	3275	2836	2630	2424	2218	2012	1990
25.0	4533	4062	3591	3120	2649	2463	2277	2092	1906	1904
27.5	4360	3879	3398	2917	2436	2291	2145	2000	1854	1854
30.0	4186	3695	3205	2714	2224	2118	2013	1907	1802	1804
32.5	4145	3632	3118	2605	2091	2006	1920	1835	1749	1751
35.0	4104	3568	3031	2495	1959	1893	1827	1762	1696	1699
37.5	4012	3470	2928	2387	1845	1795	1744	1694	1644	1647
40.0	3919	3372	2825	2279	1732	1697	1662	1627	1592	1595
42.5	3698	3181	2664	2147	1630	1607	1584	1562	1539	1546
45.0	3476	2989	2502	2015	1527	1517	1507	1497	1487	1497
47.5	3162	2727	2293	1858	1423	1424	1425	1426	1427	1440
50.0	2847	2465	2083	1701	1319	1331	1343	1355	1366	1383
52.5	2565	2229	1893	1558	1222	1234	1246	1259	1271	1288
55.0	2283	1993	1704	1414	1124	1137	1150	1163	1176	1192
57.5	1945	1714	1483	1252	1021	1039	1056	1074	1091	1116
60.0	1607	1435	1263	1091	918	940	962	984	1006	1040
62.5	1289	1169	1048	928	807	829	851	873	895	927
65.0	971	902	833	765	696	718	740	762	784	813
67.5	720	685	651	617	583	611	639	667	696	728
70.0	469	469	469	469	469	503	538	573	607	643
72.5	357	360	362	365	367	391	415	438	462	496
75.0	246	251	256	260	265	278	291	304	317	349
77.5	152	155	157	160	162	174	186	198	210	233
80.0	58	58	59	59	59	70	81	92	103	117
82.5	34	34	34	33	33	39	45	50	56	63
85.0	10	9	8	8	7	7	8	8	9	10
87.5	5	4	4	4	3	4	4	4	4	5
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	4093	4048	4004	3965	3926	3887	3848	3817	3786	3755
5.0	3649	3560	3471	3393	3315	3237	3159	3097	3035	2973
7.5	3252	3144	3036	2953	2869	2786	2702	2649	2596	2543
10.0	2854	2728	2602	2512	2423	2334	2244	2200	2156	2112
12.5	2583	2462	2342	2286	2230	2175	2119	2095	2071	2047
15.0	2313	2197	2081	2059	2037	2015	1993	1989	1985	1981
17.5	2174	2095	2016	2006	1995	1985	1974	1973	1972	1971
20.0	2034	1993	1951	1952	1953	1954	1956	1957	1959	1961
22.5	1968	1946	1924	1924	1925	1925	1925	1926	1927	1928
25.0	1901	1899	1897	1896	1896	1896	1895	1896	1896	1896
27.5	1854	1854	1853	1855	1856	1857	1858	1863	1868	1873
30.0	1806	1808	1810	1813	1816	1818	1821	1830	1840	1849
32.5	1754	1756	1759	1766	1773	1780	1787	1802	1817	1831
35.0	1702	1704	1707	1719	1731	1742	1754	1774	1794	1813
37.5	1650	1653	1656	1672	1688	1704	1720	1740	1760	1780
40.0	1599	1602	1606	1625	1645	1665	1685	1705	1726	1747
42.5	1553	1559	1566	1592	1619	1645	1671	1687	1704	1720
45.0	1507	1517	1527	1559	1592	1625	1657	1670	1682	1694
47.5	1454	1467	1481	1526	1570	1615	1660	1668	1677	1685
50.0	1401	1418	1435	1492	1549	1606	1663	1667	1672	1677
52.5	1304	1321	1338	1401	1464	1528	1591	1609	1626	1644
55.0	1208	1225	1241	1310	1380	1450	1519	1550	1580	1611
57.5	1142	1167	1192	1247	1302	1357	1411	1477	1543	1608
60.0	1075	1109	1144	1184	1224	1264	1304	1404	1505	1606
62.5	958	990	1022	1064	1106	1149	1191	1263	1336	1408
65.0	842	871	900	944	989	1034	1078	1122	1166	1210
67.5	760	793	825	854	882	910	938	962	985	1009
70.0	679	715	751	763	774	786	798	801	804	807
72.5	530	563	597	605	612	620	627	632	638	643
75.0	380	412	443	447	450	453	456	464	471	479
77.5	255	278	300	305	309	314	318	324	330	336

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CANDELA TABULATION - (Cont.)

80.0	130	143	157	163	168	174	180	185	189	194
82.5	71	78	85	89	92	96	100	103	106	109
85.0	11	12	13	15	16	18	19	21	22	24
87.5	5	6	7	7	8	9	10	10	11	12
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	3723	3697	3671	3644	3618	3599	3580	3561	3542	3530
5.0	2911	2858	2805	2752	2699	2662	2624	2586	2549	2523
7.5	2490	2456	2422	2389	2355	2334	2313	2292	2271	2258
10.0	2068	2054	2039	2025	2010	2006	2002	1998	1993	1992
12.5	2023	2015	2008	2001	1994	1994	1994	1995	1995	2000
15.0	1977	1977	1977	1977	1977	1982	1987	1991	1996	2008
17.5	1969	1969	1969	1969	1968	1972	1975	1979	1982	1991
20.0	1962	1962	1961	1960	1960	1962	1964	1966	1968	1974
22.5	1929	1932	1934	1936	1938	1942	1945	1949	1952	1958
25.0	1897	1902	1907	1912	1917	1922	1926	1931	1936	1941

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CANDELA TABULATION - (Cont.)

27.5	1878	1885	1893	1901	1909	1915	1921	1927	1933	1939
30.0	1858	1869	1880	1891	1901	1909	1916	1923	1931	1937
32.5	1846	1859	1871	1884	1897	1904	1912	1919	1926	1933
35.0	1833	1848	1863	1878	1893	1900	1908	1915	1922	1929
37.5	1800	1815	1829	1844	1859	1871	1883	1895	1908	1915
40.0	1767	1781	1796	1810	1825	1842	1859	1876	1893	1900
42.5	1737	1758	1778	1799	1820	1831	1843	1855	1866	1874
45.0	1707	1734	1761	1788	1815	1821	1827	1834	1840	1848
47.5	1694	1713	1732	1751	1771	1778	1786	1794	1802	1807
50.0	1681	1692	1704	1715	1726	1736	1745	1755	1765	1767
52.5	1661	1687	1713	1739	1765	1753	1741	1729	1717	1709
55.0	1641	1681	1722	1762	1803	1769	1736	1702	1668	1651
57.5	1674	1689	1704	1719	1734	1685	1635	1586	1536	1533
60.0	1707	1696	1686	1676	1666	1600	1535	1469	1404	1414
62.5	1480	1474	1467	1460	1453	1409	1365	1321	1276	1284
65.0	1254	1251	1248	1244	1241	1218	1195	1172	1148	1153
67.5	1032	1033	1034	1035	1036	1029	1022	1015	1008	1007
70.0	810	815	821	826	831	840	849	859	868	861
72.5	648	654	659	665	671	685	699	714	728	719
75.0	486	492	498	504	510	530	550	569	589	577
77.5	342	346	350	354	358	372	387	401	415	408
80.0	199	201	203	205	207	215	224	232	241	239
82.5	112	113	115	116	117	122	127	131	136	136
85.0	25	26	26	27	28	29	30	30	31	32
87.5	12	13	13	14	14	14	15	15	16	16
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	3517	3504	3491	3485	3479	3472	3466	3472	3477	3483
5.0	2498	2472	2447	2434	2421	2409	2396	2407	2418	2430
7.5	2245	2231	2218	2215	2211	2208	2205	2210	2216	2222
10.0	1992	1991	1990	1996	2002	2007	2013	2014	2015	2015
12.5	2005	2011	2016	2028	2040	2052	2064	2064	2063	2062
15.0	2019	2030	2042	2060	2079	2097	2116	2113	2111	2108
17.5	1999	2008	2016	2032	2048	2064	2079	2078	2078	2077
20.0	1980	1985	1991	2004	2017	2030	2043	2044	2044	2045
22.5	1963	1969	1974	1987	2000	2013	2026	2026	2027	2027
25.0	1947	1952	1958	1971	1983	1996	2009	2009	2009	2009
27.5	1945	1951	1957	1971	1985	1998	2012	2011	2010	2010
30.0	1944	1951	1957	1971	1986	2000	2014	2013	2012	2011
32.5	1940	1947	1954	1965	1976	1987	1998	2000	2001	2002
35.0	1936	1943	1950	1958	1967	1975	1983	1986	1989	1993
37.5	1922	1929	1936	1945	1953	1961	1969	1974	1979	1983
40.0	1908	1915	1922	1931	1939	1947	1956	1962	1968	1974
42.5	1882	1890	1898	1905	1913	1920	1928	1934	1940	1946
45.0	1856	1865	1873	1880	1886	1893	1900	1906	1912	1918
47.5	1812	1817	1822	1830	1837	1845	1852	1858	1865	1871
50.0	1768	1770	1771	1780	1788	1796	1805	1811	1817	1823
52.5	1701	1694	1686	1696	1707	1717	1727	1733	1740	1746
55.0	1635	1618	1601	1613	1625	1637	1649	1656	1662	1669
57.5	1530	1526	1523	1572	1620	1669	1718	1687	1656	1625
60.0	1425	1435	1445	1530	1616	1701	1786	1718	1649	1581
62.5	1291	1298	1306	1357	1408	1459	1510	1477	1444	1411
65.0	1157	1162	1166	1183	1200	1217	1234	1236	1239	1241
67.5	1006	1005	1004	1013	1023	1032	1042	1051	1059	1068
70.0	855	848	842	844	846	848	850	865	880	895
72.5	710	701	692	692	692	693	693	709	725	741
75.0	565	553	541	540	539	537	536	553	570	588
77.5	401	395	388	387	386	385	384	398	412	426
80.0	237	236	234	234	233	233	232	242	253	264
82.5	135	135	135	135	135	135	135	141	146	152
85.0	33	34	35	36	36	37	38	39	40	41
87.5	17	17	17	18	18	19	19	19	20	20
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	3488	3499	3511	3522	3533	3551	3568	3586	3604	3629
5.0	2441	2463	2485	2507	2530	2565	2601	2636	2672	2721
7.5	2228	2240	2252	2264	2276	2296	2317	2337	2357	2387
10.0	2016	2018	2020	2021	2023	2028	2032	2037	2042	2053
12.5	2061	2056	2051	2046	2041	2040	2038	2037	2036	2043
15.0	2106	2094	2082	2071	2059	2052	2044	2037	2030	2032
17.5	2076	2068	2061	2054	2046	2043	2041	2038	2035	2039
20.0	2046	2043	2040	2036	2033	2035	2037	2039	2041	2045
22.5	2027	2026	2024	2022	2021	2023	2025	2026	2028	2031
25.0	2008	2008	2008	2008	2008	2010	2012	2014	2016	2017
27.5	2009	2009	2009	2009	2009	2011	2013	2015	2017	2017
30.0	2010	2010	2010	2010	2010	2012	2014	2016	2018	2017
32.5	2003	2005	2008	2010	2013	2016	2020	2023	2027	2024
35.0	1996	2001	2006	2010	2015	2020	2025	2030	2035	2031
37.5	1988	1993	1998	2003	2008	2009	2010	2010	2011	2009
40.0	1980	1985	1990	1996	2001	1998	1994	1991	1988	1987
42.5	1952	1965	1978	1990	2003	2002	2001	2000	1999	1992
45.0	1924	1944	1965	1985	2005	2007	2008	2009	2010	1997
47.5	1877	1895	1913	1932	1950	1962	1975	1987	1999	1992
50.0	1830	1846	1862	1879	1895	1918	1941	1964	1987	1987
52.5	1752	1778	1804	1830	1856	1895	1934	1973	2011	2000
55.0	1675	1711	1746	1781	1817	1871	1926	1981	2036	2012
57.5	1594	1621	1648	1675	1702	1780	1858	1936	2013	2020
60.0	1513	1532	1550	1569	1588	1689	1790	1891	1991	2028

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CANDELA TABULATION - (Cont.)

62.5	1378	1397	1415	1433	1451	1543	1635	1727	1818	1832
65.0	1244	1262	1279	1297	1315	1397	1480	1563	1646	1637
67.5	1077	1101	1124	1148	1172	1218	1265	1311	1358	1354
70.0	910	940	969	999	1029	1039	1049	1059	1070	1072
72.5	757	788	819	851	882	883	885	887	889	886
75.0	605	637	669	702	734	728	721	715	708	700
77.5	439	464	488	512	536	530	524	518	512	508
80.0	274	290	306	323	339	333	327	322	316	317
82.5	158	167	175	184	193	191	188	186	184	185
85.0	42	43	44	46	47	48	50	51	52	54
87.5	21	22	22	23	23	24	25	26	26	27
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	3653	3678	3702	3733	3764	3794	3825	3861	3898	3934
5.0	2770	2820	2869	2930	2991	3052	3113	3186	3259	3332
7.5	2418	2448	2479	2527	2575	2623	2671	2750	2830	2909

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CANDELA TABULATION - (Cont.)

10.0	2065	2077	2088	2123	2158	2193	2228	2314	2400	2486
12.5	2050	2057	2064	2085	2105	2126	2146	2198	2250	2301
15.0	2035	2037	2040	2046	2052	2058	2064	2082	2099	2117
17.5	2042	2046	2049	2053	2057	2060	2064	2074	2083	2093
20.0	2050	2054	2059	2060	2061	2063	2064	2066	2067	2069
22.5	2034	2038	2041	2045	2049	2053	2057	2059	2061	2062
25.0	2019	2021	2023	2029	2036	2042	2049	2051	2054	2056
27.5	2017	2017	2018	2020	2022	2025	2027	2031	2035	2040
30.0	2015	2014	2013	2011	2009	2007	2005	2011	2017	2023
32.5	2021	2018	2016	2010	2004	1998	1993	1994	1996	1997
35.0	2027	2023	2019	2009	2000	1990	1981	1978	1975	1972
37.5	2006	2004	2002	1993	1985	1976	1967	1960	1952	1944
40.0	1986	1985	1984	1977	1969	1962	1954	1942	1930	1917
42.5	1985	1977	1970	1962	1954	1947	1939	1923	1906	1890
45.0	1983	1969	1956	1948	1939	1931	1923	1903	1883	1863
47.5	1985	1978	1971	1981	1990	2000	2009	1963	1917	1871
50.0	1987	1987	1986	2014	2041	2068	2096	2023	1951	1879
52.5	1988	1976	1965	1981	1996	2012	2028	1961	1895	1829
55.0	1989	1966	1943	1947	1952	1956	1960	1899	1839	1778
57.5	2027	2034	2040	1982	1923	1864	1805	1752	1700	1647
60.0	2064	2101	2137	2016	1894	1772	1650	1606	1561	1516
62.5	1846	1860	1874	1793	1713	1633	1552	1506	1460	1414
65.0	1628	1619	1610	1571	1532	1493	1454	1407	1359	1312
67.5	1351	1348	1344	1328	1311	1295	1278	1249	1220	1191
70.0	1074	1076	1079	1085	1091	1096	1102	1092	1081	1070
72.5	883	880	877	883	888	894	900	895	890	886
75.0	692	683	675	681	686	692	697	699	700	701
77.5	505	501	498	499	501	503	504	505	506	506
80.0	318	319	320	318	316	313	311	311	311	312
82.5	186	188	189	188	187	187	186	187	187	188
85.0	55	56	57	58	59	60	61	62	63	64
87.5	27	28	29	29	29	30	30	31	32	32
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	3971	4016	4061	4106	4151	4205	4258	4311	4364	4419
5.0	3405	3496	3586	3676	3767	3873	3979	4086	4192	4303
7.5	2988	3098	3208	3318	3428	3566	3704	3841	3979	4140
10.0	2572	2701	2831	2960	3089	3259	3428	3597	3766	3976
12.5	2353	2468	2584	2699	2814	3005	3196	3386	3577	3831
15.0	2134	2236	2337	2438	2539	2751	2963	3176	3388	3686
17.5	2102	2168	2233	2298	2364	2576	2788	3000	3212	3546
20.0	2071	2100	2129	2159	2188	2400	2612	2824	3036	3406
22.5	2064	2082	2099	2116	2133	2317	2502	2686	2870	3273
25.0	2058	2063	2068	2073	2078	2235	2392	2549	2705	3140
27.5	2044	2048	2051	2055	2059	2183	2308	2433	2557	3023
30.0	2030	2032	2034	2037	2039	2131	2224	2317	2409	2905
32.5	1999	2002	2004	2006	2009	2078	2147	2215	2284	2805
35.0	1969	1971	1974	1976	1979	2024	2069	2114	2159	2704
37.5	1937	1939	1942	1944	1947	1980	2013	2047	2080	2627
40.0	1905	1907	1910	1912	1915	1936	1958	1979	2001	2551
42.5	1874	1874	1874	1874	1875	1891	1907	1923	1939	2467
45.0	1843	1841	1839	1837	1834	1845	1856	1867	1878	2384
47.5	1825	1818	1810	1803	1796	1797	1797	1798	1799	2271
50.0	1807	1795	1782	1770	1758	1748	1739	1730	1720	2157
52.5	1762	1744	1726	1707	1689	1674	1660	1645	1630	2018
55.0	1718	1693	1669	1645	1621	1600	1580	1560	1540	1880
57.5	1594	1572	1550	1528	1505	1484	1463	1442	1421	1710
60.0	1471	1451	1431	1410	1390	1368	1346	1325	1303	1541
62.5	1368	1349	1331	1312	1293	1263	1233	1203	1173	1346
65.0	1265	1248	1231	1213	1196	1158	1120	1081	1043	1152
67.5	1162	1133	1104	1075	1045	1014	983	952	921	984
70.0	1059	1018	977	936	894	870	846	823	799	817
72.5	881	841	801	760	720	702	684	667	649	658
75.0	702	663	624	585	546	534	522	511	499	500
77.5	507	482	457	432	407	390	373	356	338	336
80.0	312	301	290	279	268	246	223	201	178	173
82.5	189	183	178	173	168	154	140	126	112	109
85.0	65	66	66	67	67	62	56	51	46	44
87.5	33	33	33	33	34	31	28	26	23	22
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	4475	4530	4585	4638	4690	4743	4796	4843	4891	4939
5.0	4413	4524	4635	4740	4845	4950	5055	5150	5246	5341
7.5	4300	4460	4621	4777	4932	5088	5244	5377	5510	5643
10.0	4187	4397	4607	4813	5020	5226	5432	5603	5774	5945
12.5	4086	4340	4594	4851	5108	5365	5622	5818	6015	6212
15.0	3984	4283	4581	4889	5196	5504	5812	6034	6256	6478
17.5	3881	4215	4550	4904	5259	5613	5968	6210	6451	6693
20.0	3777	4147	4518	4920	5321	5723	6125	6386	6647	6908
22.5	3676	4078	4481	4932	5383	5833	6284	6561	6837	7113
25.0	3575	4009	4444	4944	5444	5944	6444	6735	7027	7318
27.5	3488	3954	4419	4971	5522	6074	6625	6930	7235	7539
30.0	3402	3898	4394	4997	5600	6204	6807	7125	7443	7761
32.5	3325	3845	4365	5031	5696	6361	7026	7357	7687	8018
35.0	3248	3792	4337	5064	5791	6518	7245	7588	7931	8274
37.5	3174	3722	4269	5060	5852	6643	7435	7798	8162	8526
40.0	3101	3651	4201	5057	5912	6768	7624	8009	8393	8778
42.5	2995	3524	4052	4968	5885	6801	7718	8137	8557	8976

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

45.0	2890	3396	3903	4880	5857	6834	7812	8266	8720	9174
47.5	2742	3214	3686	4700	5713	6727	7741	8250	8758	9267
50.0	2595	3032	3469	4519	5569	6620	7670	8233	8797	9360
52.5	2407	2795	3183	4241	5299	6357	7414	8083	8752	9420
55.0	2219	2558	2898	3963	5028	6093	7159	7933	8706	9480
57.5	1999	2287	2576	3554	4531	5509	6487	7346	8204	9063
60.0	1778	2016	2254	3144	4034	4925	5815	6759	7702	8646
62.5	1520	1693	1867	2551	3235	3919	4603	5378	6153	6928
65.0	1261	1370	1480	1957	2435	2913	3391	3997	4603	5210
67.5	1048	1112	1175	1457	1738	2020	2301	2639	2976	3313
70.0	835	853	871	956	1041	1127	1212	1280	1348	1417
72.5	668	677	686	744	803	861	919	973	1028	1082
75.0	500	501	502	533	564	595	626	667	708	748
77.5	334	332	330	361	391	422	452	483	514	544
80.0	169	164	159	189	219	249	278	299	320	340
82.5	105	102	99	116	134	151	169	179	190	201
85.0	42	40	38	43	48	54	59	60	61	62
87.5	21	20	19	22	24	27	29	30	30	31
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	4986	5026	5066	5107	5147	5178	5209	5241	5272	5296
5.0	5436	5517	5597	5677	5757	5820	5883	5946	6008	6056
7.5	5776	5877	5977	6078	6179	6251	6324	6397	6470	6524
10.0	6116	6237	6358	6479	6600	6683	6766	6848	6931	6992
12.5	6408	6539	6670	6801	6932	7023	7113	7204	7295	7354
15.0	6700	6841	6982	7123	7263	7362	7461	7560	7659	7717
17.5	6935	7089	7243	7397	7551	7646	7741	7835	7930	7981
20.0	7169	7336	7504	7671	7839	7930	8020	8111	8202	8245
22.5	7389	7558	7727	7896	8064	8147	8230	8313	8396	8449
25.0	7610	7780	7950	8120	8290	8365	8440	8515	8590	8652
27.5	7844	8003	8162	8321	8481	8552	8623	8694	8765	8839
30.0	8078	8227	8375	8523	8671	8738	8805	8872	8939	9027
32.5	8348	8475	8602	8729	8856	8925	8993	9062	9130	9232
35.0	8618	8723	8829	8935	9041	9111	9181	9251	9321	9437
37.5	8890	8977	9065	9152	9239	9297	9356	9414	9473	9566
40.0	9163	9231	9300	9369	9437	9484	9531	9577	9624	9696
42.5	9395	9441	9487	9532	9578	9595	9612	9629	9646	9711
45.0	9628	9651	9674	9696	9719	9706	9694	9681	9669	9727
47.5	9776	9789	9802	9815	9828	9783	9739	9694	9649	9735
50.0	9924	9927	9930	9934	9937	9860	9783	9707	9630	9743
52.5	10089	10106	10123	10140	10157	10079	10001	9922	9844	9910
55.0	10254	10285	10316	10347	10378	10298	10218	10138	10059	10077
57.5	9922	10203	10484	10765	11046	10965	10884	10803	10721	10639
60.0	9590	10121	10652	11183	11715	11632	11549	11467	11384	11201
62.5	7703	8717	9732	10746	11761	12348	12935	13522	14109	13756
65.0	5816	7314	8812	10309	11807	13063	14320	15577	16834	16312
67.5	3651	4485	5319	6153	6987	9658	12328	14999	17669	18486
70.0	1485	1656	1826	1997	2168	6252	10336	14421	18505	20661
72.5	1137	1239	1340	1442	1544	3652	5760	7867	9975	11609
75.0	789	822	854	887	919	1051	1183	1314	1446	2558
77.5	575	592	609	626	644	715	786	858	929	1493
80.0	361	362	364	366	368	379	390	401	412	428
82.5	212	213	214	215	216	220	224	227	231	238
85.0	62	63	63	64	64	61	57	54	51	48
87.5	31	31	32	32	32	30	29	27	25	24
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	5320	5343	5367	5384	5400	5417	5433	5445	5456	5467
5.0	6103	6151	6198	6231	6264	6297	6330	6353	6376	6399
7.5	6578	6632	6686	6724	6763	6801	6840	6867	6894	6921
10.0	7052	7113	7174	7218	7262	7305	7349	7380	7411	7442
12.5	7414	7473	7533	7567	7601	7635	7670	7692	7714	7737
15.0	7775	7833	7892	7916	7941	7966	7990	8004	8017	8031
17.5	8032	8083	8134	8158	8182	8206	8231	8243	8256	8269
20.0	8289	8332	8376	8400	8423	8447	8471	8483	8494	8506
22.5	8501	8554	8606	8641	8675	8710	8744	8763	8781	8800
25.0	8714	8775	8837	8882	8927	8972	9017	9042	9068	9093
27.5	8914	8989	9063	9133	9202	9271	9341	9381	9421	9461
30.0	9114	9202	9290	9383	9477	9571	9664	9719	9773	9828
32.5	9333	9434	9536	9630	9724	9819	9913	9960	10008	10056
35.0	9552	9667	9782	9877	9971	10066	10161	10202	10243	10284
37.5	9659	9753	9846	9951	10055	10160	10264	10342	10419	10496
40.0	9767	9839	9910	10025	10139	10253	10368	10481	10595	10709
42.5	9776	9841	9905	10054	10203	10352	10501	10646	10791	10937
45.0	9784	9842	9900	10083	10267	10450	10634	10811	10988	11165
47.5	9820	9905	9990	10152	10315	10477	10639	10839	11040	11240
50.0	9855	9968	10081	10222	10363	10503	10644	10868	11092	11316
52.5	9975	10041	10106	10248	10390	10532	10674	10981	11289	11596
55.0	10095	10113	10132	10275	10418	10561	10704	11095	11486	11877
57.5	10556	10473	10391	10636	10880	11125	11370	11914	12458	13002
60.0	11017	10833	10650	10997	11343	11690	12036	12733	13430	14127
62.5	13404	13051	12699	13215	13731	14248	14764	15731	16699	17666
65.0	15791	15269	14748	15434	16120	16806	17492	18730	19968	21205
67.5	19304	20121	20938	20653	20368	20084	19799	18620	17440	16261
70.0	22816	24972	27128	25872	24617	23362	22107	18510	14913	11317
72.5	13243	14877	16511	15472	14434	13395	12356	10399	8442	6486
75.0	3670	4782	5895	5072	4250	3428	2606	2289	1971	1654
77.5	2057	2622	3186	2779	2372	1965	1557	1393	1228	1063

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

80.0	444	461	477	485	493	501	509	497	485	473
82.5	244	251	257	260	263	266	269	263	256	249
85.0	44	41	38	36	34	32	30	28	26	25
87.5	22	21	19	18	17	16	15	14	13	12
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	5479	5484	5489	5494	5499	5497	5495	5492	5490	5492
5.0	6422	6432	6442	6452	6463	6458	6454	6449	6444	6447
7.5	6947	6963	6978	6993	7008	7007	7007	7006	7006	7007
10.0	7473	7493	7513	7533	7553	7557	7560	7563	7567	7567
12.5	7759	7775	7791	7807	7824	7830	7835	7841	7847	7846
15.0	8045	8057	8069	8082	8094	8102	8111	8119	8127	8126
17.5	8281	8292	8302	8313	8323	8331	8338	8345	8352	8352
20.0	8518	8526	8535	8544	8553	8559	8564	8570	8576	8577
22.5	8818	8831	8843	8855	8868	8873	8879	8885	8891	8891
25.0	9119	9135	9151	9166	9182	9188	9194	9199	9205	9205

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CANDELA TABULATION - (Cont.)

27.5	9501	9521	9541	9561	9581	9584	9588	9592	9595	9595
30.0	9882	9906	9931	9955	9980	9981	9982	9984	9985	9985
32.5	10104	10132	10161	10190	10219	10222	10225	10229	10232	10223
35.0	10325	10358	10391	10424	10458	10463	10468	10474	10479	10462
37.5	10574	10621	10669	10716	10764	10769	10775	10780	10786	10759
40.0	10822	10884	10946	11008	11069	11075	11081	11086	11092	11057
42.5	11082	11144	11206	11268	11329	11331	11333	11335	11336	11297
45.0	11342	11404	11466	11528	11589	11587	11585	11583	11581	11538
47.5	11441	11555	11670	11785	11899	11907	11915	11923	11931	11873
50.0	11539	11707	11874	12042	12209	12227	12245	12263	12281	12207
52.5	11904	12167	12429	12692	12955	12999	13042	13086	13129	13040
55.0	12268	12626	12985	13343	13702	13771	13840	13909	13978	13874
57.5	13546	14011	14476	14941	15406	15487	15568	15649	15730	15639
60.0	14824	15396	15967	16539	17110	17203	17296	17389	17482	17404
62.5	18634	18934	19235	19535	19836	19612	19387	19163	18939	19205
65.0	22443	22473	22502	22532	22562	22020	21479	20938	20396	21005
67.5	15082	14470	13858	13246	12634	12314	11994	11674	11354	11681
70.0	7720	6467	5213	3960	2707	2608	2509	2410	2311	2356
72.5	4529	3887	3245	2603	1961	1911	1861	1810	1760	1769
75.0	1337	1307	1277	1246	1216	1214	1212	1210	1208	1182
77.5	899	879	860	840	821	827	834	841	847	822
80.0	461	452	443	434	426	441	456	471	486	463
82.5	242	237	233	228	223	231	238	245	253	241
85.0	23	23	22	22	21	21	20	20	20	19
87.5	12	11	11	11	11	10	10	10	10	10
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	5493	5495	5496	5492	5489	5485	5481	5470	5459	5449
5.0	6450	6453	6456	6449	6441	6433	6425	6404	6383	6361
7.5	7008	7010	7011	7001	6991	6981	6971	6946	6922	6897
10.0	7566	7566	7566	7553	7541	7529	7516	7489	7461	7433
12.5	7846	7845	7845	7836	7827	7818	7809	7790	7771	7752
15.0	8125	8125	8124	8118	8112	8106	8101	8090	8080	8070
17.5	8352	8352	8353	8348	8344	8340	8335	8327	8319	8311
20.0	8579	8580	8581	8579	8576	8573	8570	8564	8558	8553
22.5	8892	8893	8894	8889	8883	8877	8872	8855	8839	8823
25.0	9206	9206	9207	9198	9190	9182	9174	9147	9120	9093
27.5	9595	9595	9595	9582	9569	9555	9542	9499	9456	9412
30.0	9984	9984	9983	9965	9947	9929	9911	9851	9791	9732
32.5	10214	10206	10197	10171	10145	10120	10094	10043	9992	9941
35.0	10445	10427	10410	10377	10344	10310	10277	10235	10192	10150
37.5	10733	10707	10680	10630	10579	10529	10478	10403	10328	10252
40.0	11021	10986	10951	10883	10815	10747	10680	10571	10463	10355
42.5	11259	11220	11181	11105	11028	10952	10875	10676	10477	10279
45.0	11496	11454	11411	11326	11241	11156	11071	10781	10492	10203
47.5	11815	11757	11699	11572	11446	11319	11193	10847	10501	10155
50.0	12133	12060	11986	11818	11650	11483	11315	10913	10510	10108
52.5	12951	12862	12773	12458	12143	11827	11512	11063	10614	10165
55.0	13769	13665	13561	13098	12635	12171	11708	11213	10717	10222
57.5	15548	15457	15366	14688	14009	13330	12651	12101	11551	11001
60.0	17327	17250	17172	16278	15383	14488	13594	12989	12384	11780
62.5	19470	19736	20002	19273	18544	17815	17086	16240	15394	14549
65.0	21614	22223	22831	22268	21705	21142	20578	19491	18404	17318
67.5	12008	12335	12662	13084	13507	13930	14352	15091	15830	16568
70.0	2402	2447	2492	3901	5309	6718	8126	10690	13255	15819
72.5	1779	1789	1798	2493	3187	3881	4576	5967	7358	8750
75.0	1156	1130	1104	1084	1065	1045	1025	1243	1462	1680
77.5	798	773	748	733	718	702	687	798	909	1019
80.0	439	416	392	381	371	360	349	352	355	358
82.5	229	217	205	200	194	189	183	185	186	188
85.0	19	19	18	18	18	18	18	17	17	17
87.5	9	9	9	9	9	9	9	9	9	8
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	5438	5421	5404	5387	5371	5347	5323	5299	5275	5245
5.0	6340	6306	6273	6239	6205	6158	6110	6062	6015	5953
7.5	6873	6834	6796	6757	6719	6664	6608	6553	6498	6424
10.0	7406	7362	7319	7276	7233	7170	7107	7044	6981	6895
12.5	7733	7701	7670	7638	7606	7547	7487	7427	7368	7275
15.0	8060	8040	8020	8000	7980	7924	7867	7811	7755	7655
17.5	8303	8283	8264	8244	8224	8178	8132	8085	8039	7947
20.0	8547	8527	8508	8488	8468	8432	8396	8360	8323	8240
22.5	8806	8776	8745	8714	8684	8642	8601	8560	8519	8448
25.0	9066	9024	8982	8941	8899	8853	8806	8760	8714	8655
27.5	9369	9306	9244	9181	9119	9062	9006	8950	8893	8773
30.0	9672	9589	9505	9422	9339	9272	9206	9139	9072	8892
32.5	9890	9803	9716	9629	9542	9390	9238	9086	8935	8824
35.0	10108	10017	9926	9835	9745	9508	9271	9034	8797	8757
37.5	10177	9998	9819	9639	9460	9322	9184	9046	8908	8877
40.0	10246	9979	9711	9444	9176	9137	9097	9058	9019	8998
42.5	10080	9854	9629	9403	9177	9137	9097	9057	9017	9019
45.0	9913	9730	9546	9362	9178	9138	9097	9056	9015	9041
47.5	9809	9664	9518	9373	9228	9174	9121	9067	9014	9053
50.0	9705	9598	9491	9384	9277	9211	9145	9079	9013	9064
52.5	9716	9631	9546	9461	9377	9309	9241	9174	9106	9092
55.0	9726	9664	9601	9539	9477	9407	9338	9269	9200	9120
57.5	10451	10264	10077	9890	9703	9753	9804	9855	9905	9706
60.0	11175	10863	10552	10240	9929	10099	10270	10440	10611	10291

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CANDELA TABULATION - (Cont.)

62.5	13703	13370	13038	12706	12373	12463	12553	12642	12732	11525
65.0	16231	15877	15524	15171	14818	14827	14836	14845	14854	12759
67.5	17307	17556	17806	18055	18304	16490	14675	12860	11046	9248
70.0	18384	19235	20087	20939	21791	18153	14514	10876	7238	5737
72.5	10141	10780	11418	12057	12696	10536	8377	6218	4058	3265
75.0	1899	2324	2750	3175	3600	2920	2240	1559	879	794
77.5	1130	1331	1532	1733	1934	1590	1246	902	558	509
80.0	362	338	314	290	267	259	252	245	238	224
82.5	189	177	166	154	142	138	134	131	127	120
85.0	17	17	17	17	17	17	17	17	16	16
87.5	8	8	8	9	9	8	8	8	8	8
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	4536	4536	4536	4536	4536	4536	4536	4536	4536	4536
2.5	5214	5183	5152	5113	5074	5035	4996	4950	4904	4858
5.0	5891	5830	5768	5690	5612	5534	5456	5364	5272	5180
7.5	6350	6276	6202	6104	6005	5907	5808	5680	5552	5424

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CANDELA TABULATION - (Cont.)

10.0	6809	6723	6637	6518	6398	6279	6160	5996	5832	5668
12.5	7181	7088	6995	6863	6731	6599	6467	6277	6086	5896
15.0	7554	7454	7353	7209	7064	6920	6775	6558	6341	6124
17.5	7856	7764	7672	7514	7355	7197	7039	6801	6564	6326
20.0	8157	8074	7990	7819	7647	7475	7303	7045	6787	6529
22.5	8377	8306	8235	8071	7908	7745	7582	7295	7009	6723
25.0	8596	8538	8479	8324	8170	8015	7860	7546	7232	6918
27.5	8654	8534	8414	8272	8129	7987	7844	7521	7198	6875
30.0	8711	8530	8349	8219	8089	7959	7828	7496	7164	6831
32.5	8714	8603	8493	8393	8293	8193	8093	7743	7393	7043
35.0	8716	8676	8636	8567	8497	8427	8358	7990	7623	7255
37.5	8846	8816	8785	8734	8682	8631	8579	8189	7799	7409
40.0	8977	8955	8934	8901	8868	8834	8801	8388	7975	7562
42.5	9021	9024	9026	9007	8989	8971	8952	8496	8041	7585
45.0	9066	9092	9117	9114	9110	9107	9103	8605	8106	7608
47.5	9091	9130	9168	9066	8964	8862	8760	8247	7734	7221
50.0	9116	9167	9219	9018	8818	8617	8417	7889	7362	6835
52.5	9078	9064	9050	8865	8679	8493	8308	7712	7117	6521
55.0	9041	8961	8882	8711	8540	8369	8198	7535	6872	6208
57.5	9506	9307	9107	8718	8328	7938	7548	6856	6164	5473
60.0	9972	9653	9333	8724	8115	7506	6897	6177	5457	4737
62.5	10318	9111	7903	7236	6569	5901	5234	4707	4180	3654
65.0	10664	8569	6474	5748	5022	4296	3570	3237	2904	2570
67.5	7450	5652	3854	3444	3035	2625	2215	2030	1845	1660
70.0	4236	2735	1234	1141	1048	954	861	823	786	749
72.5	2472	1680	887	830	774	718	661	627	592	558
75.0	709	624	539	519	500	481	461	430	399	367
77.5	460	410	361	347	333	319	305	281	258	234
80.0	210	197	183	174	166	157	148	133	117	101
82.5	113	106	100	95	91	86	82	74	66	57
85.0	16	16	16	16	16	16	15	15	14	13
87.5	8	8	8	8	8	8	8	7	7	7
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

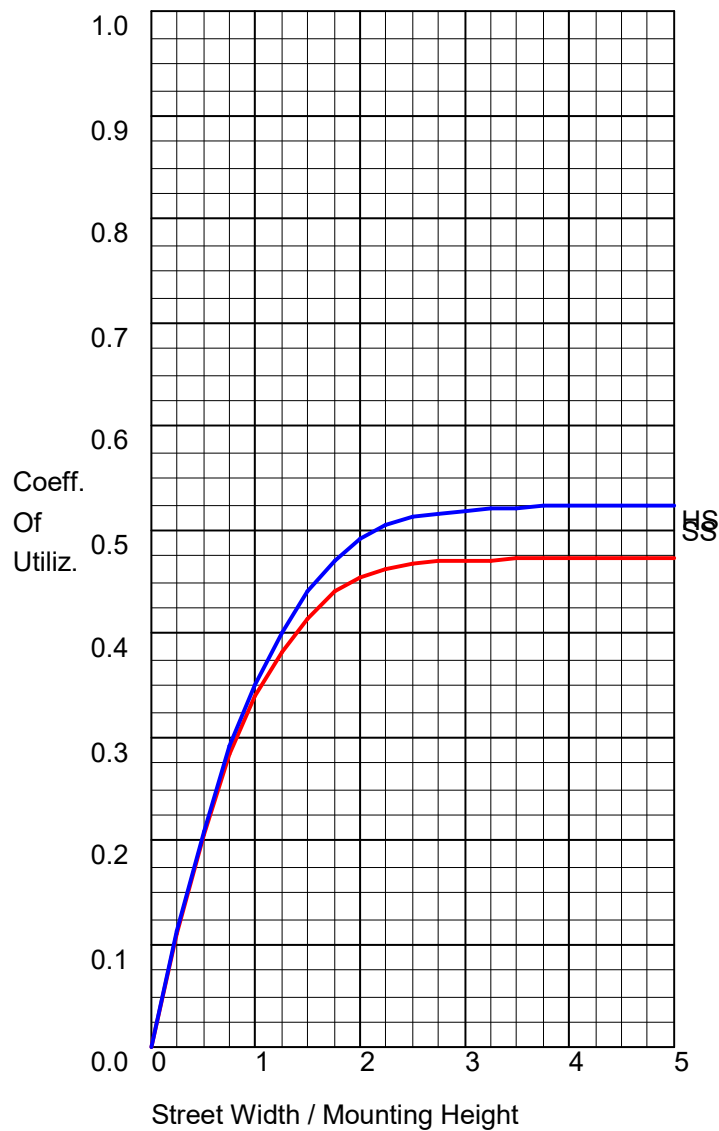
Vert. Angles	Horizontal Angles				
	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	4536	4536	4536	4536	4536
2.5	4812	4760	4709	4657	4605
5.0	5088	4985	4881	4778	4674
7.5	5296	5142	4987	4833	4679
10.0	5504	5299	5094	4889	4683
12.5	5705	5449	5194	4938	4682
15.0	5907	5600	5294	4988	4681
17.5	6089	5733	5378	5022	4666
20.0	6271	5866	5461	5056	4652
22.5	6437	5976	5515	5054	4593
25.0	6604	6087	5569	5051	4533
27.5	6551	6004	5456	4908	4360
30.0	6499	5920	5342	4764	4186
32.5	6693	6056	5419	4782	4145
35.0	6888	6192	5496	4800	4104
37.5	7018	6267	5515	4763	4012
40.0	7149	6342	5534	4727	3919
42.5	7129	6272	5414	4556	3698
45.0	7110	6202	5293	4385	3476
47.5	6709	5822	4935	4048	3162
50.0	6307	5442	4577	3712	2847
52.5	5926	5086	4246	3405	2565
55.0	5545	4729	3914	3098	2283
57.5	4781	4072	3363	2654	1945
60.0	4017	3414	2812	2210	1607
62.5	3127	2667	2208	1748	1289
65.0	2237	1921	1604	1287	971
67.5	1474	1286	1097	908	720
70.0	711	651	590	529	469
72.5	524	482	441	399	357
75.0	336	314	291	269	246
77.5	211	196	181	167	152
80.0	86	79	72	65	58
82.5	49	45	42	38	34
85.0	13	12	11	10	10
87.5	6	6	6	5	5
90.0	0	0	0	0	0
92.5	0	0	0	0	0
95.0	0	0	0	0	0

IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-3R-LED-23L-45-IC.IES

CANDELA TABULATION - (Cont.)

97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0
135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

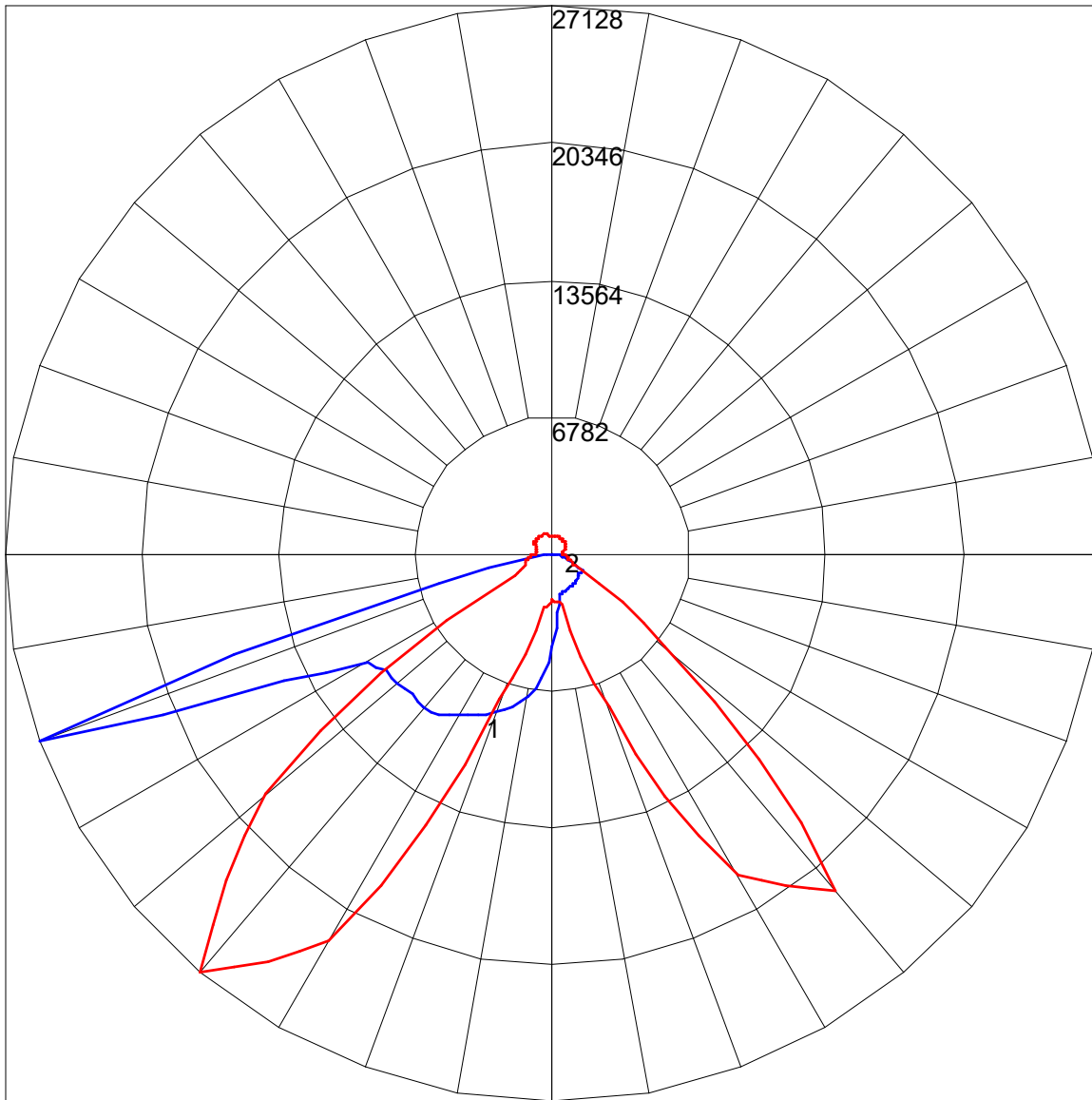
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	12092.8	47.4
Downward House Side	13406.8	52.6
Downward Total	25499.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25499.6	100.0

POLAR GRAPH



Maximum Candela = 27128 Located At Horizontal Angle = 230, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (230 - 50) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

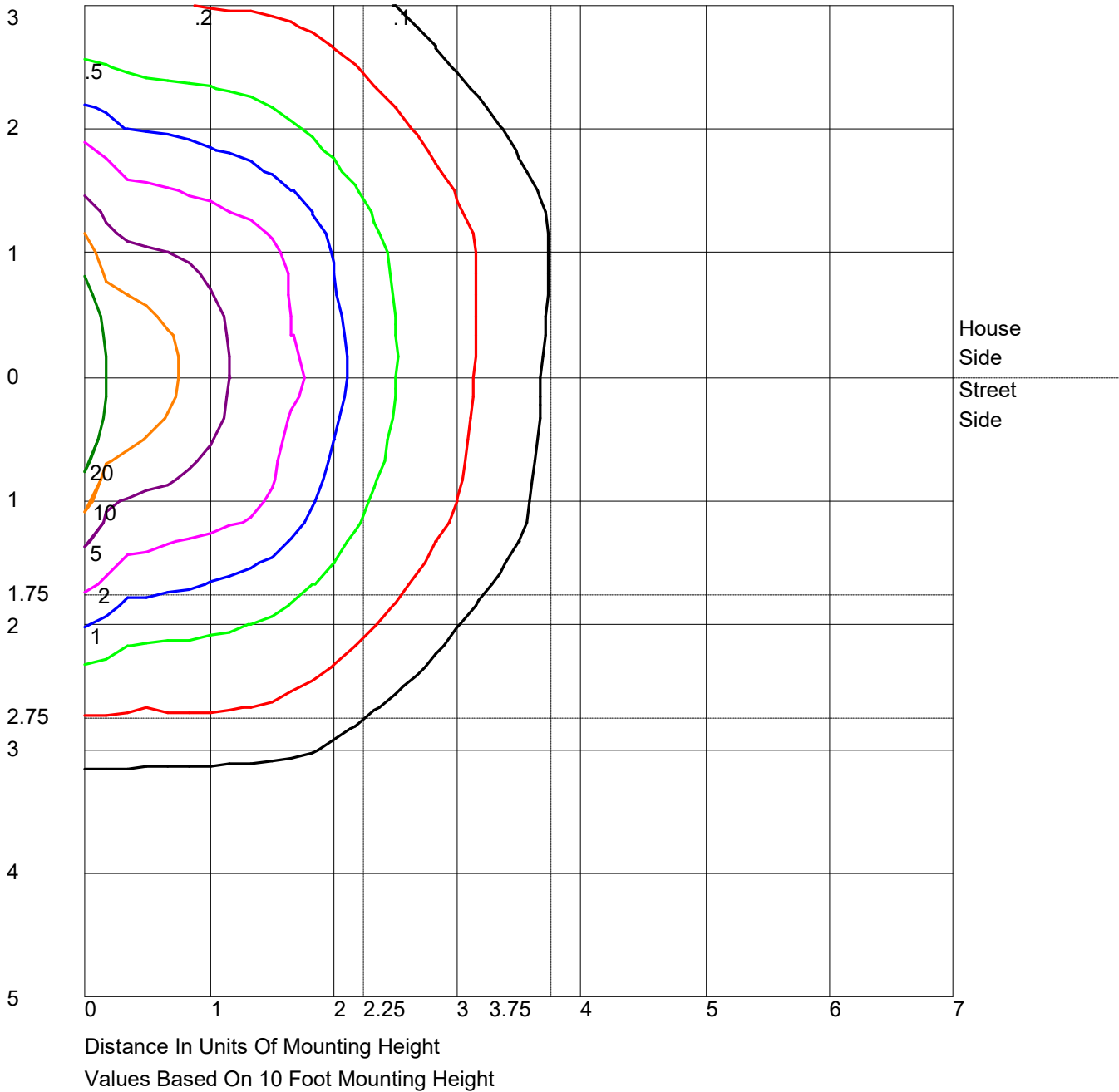


PHOTO IES R

