



IES FLOOD REPORT
PHOTOMETRIC FILENAME : PFL-LED-12L-PC-VWF-40-80.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12454
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 03/05/21
[TEST DATE] 01/21/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] PFL-LED-12L-PC-VWF-40-80
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 4000

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

NEMA Type	7 H x 7 V
Maximum Candela	3254
Maximum Candela Angle	-42.5H -75V
Horizontal Beam Angle (50%)	121.4
Vertical Beam Angle (50%)	163.9
Horizontal Field Angle (10%)	148.3
Vertical Field Angle (10%)	176.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	9894
Beam Efficiency	N.A.
Field Lumens	12021
Field Efficiency	N.A.
Spill Lumens	40
Luminaire Lumens	12062
Total Efficiency	N.A.
Total Luminaire Watts	102
Ballast Factor	1.00



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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	217	85	281
75	2267	75	2201
65	2758	65	2665
55	2321	55	2312
47.5	2040	47.5	2075
42.5	1882	42.5	1922
37.5	1742	37.5	1777
33	1629	33	1659
29	1536	29	1557
25.5	1462	25.5	1474
22.5	1409	22.5	1412
19.5	1362	19.5	1360
17	1329	17	1322
15	1305	15	1295
13	1285	13	1273
11	1269	11	1254
9	1255	9	1239
7	1244	7	1227
5	1236	5	1218
3	1232	3	1213
1	1222	1	1214
0	1216	0	1216
-1	1222	-1	1214
-3	1232	-3	1213
-5	1236	-5	1218
-7	1244	-7	1227
-9	1255	-9	1239
-11	1269	-11	1254
-13	1285	-13	1273
-15	1305	-15	1295
-17	1329	-17	1322
-19.5	1362	-19.5	1360
-22.5	1409	-22.5	1412
-25.5	1462	-25.5	1474
-29	1536	-29	1557
-33	1629	-33	1659
-37.5	1742	-37.5	1777
-42.5	1882	-42.5	1922
-47.5	2040	-47.5	2075
-55	2321	-55	2312
-65	2758	-65	2665
-75	2267	-75	2201
-85	217	-85	281
-90	0	-90	0

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CANDELA TABULATION

Maximum Candela = 3254

Beam Edge = 1627 Cd (50% of Max.)

Field Edge = 325.4 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	-85.0	-75.0	-65.0	-55.0	-47.5	-42.5	-37.5	-33.0	-29.0
90.0	0	0	0	1	1	1	1	2	2	2
85.0	0	16	84	271	613 *	792 *	918 *	1019 *	1022 *	920 *
75.0	0	47	263	1010 *	2444 *	3145 *	3254 *	3176 *	3131 *	2993 *
65.0	0	76	500 *	1975 *	3054 *	3089 *	3027 *	2969 *	2928 *	2882 *
55.0	0	110	842 *	2650 *	2916 *	2722 *	2615 *	2525 *	2463 *	2415 *
47.5	0	137	1126 *	2860 *	2752 *	2514 *	2397 *	2297 *	2234 *	2186 *
42.5	0	154	1360 *	2910 *	2651 *	2417 *	2290 *	2192 *	2119 *	2066 *
37.5	0	169	1562 *	2907 *	2579 *	2336 *	2206 *	2102 *	2023 *	1963 *
33.0	0	180	1717 *	2885 *	2525 *	2282 *	2147 *	2032 *	1948 *	1881 *
29.0	0	189	1838 *	2857 *	2483 *	2238 *	2101 *	1978 *	1885 *	1809 *
25.5	0	196	1932 *	2836 *	2453 *	2200 *	2064 *	1931 *	1830 *	1752 *
22.5	0	201	2003 *	2820 *	2430 *	2170 *	2026 *	1891 *	1787 *	1706 *
19.5	0	206	2064 *	2804 *	2404 *	2141 *	1990 *	1855 *	1749 *	1666 *
17.0	0	209	2118 *	2793 *	2385 *	2119 *	1964 *	1828 *	1721 *	1636 *
15.0	0	211	2157 *	2786 *	2371 *	2101 *	1947 *	1809 *	1701 *	1616 *
13.0	0	213	2190 *	2780 *	2359 *	2086 *	1931 *	1793 *	1683 *	1597 *
11.0	0	219	2218 *	2775 *	2349 *	2073 *	1917 *	1779 *	1667 *	1580 *
9.0	0	219	2240 *	2769 *	2340 *	2062 *	1906 *	1767 *	1655 *	1566 *
7.0	0	219	2256 *	2765 *	2333 *	2053 *	1896 *	1757 *	1644 *	1554 *
5.0	0	218	2284 *	2761 *	2327 *	2046 *	1888 *	1750 *	1636 *	1545 *
3.0	0	218	2277 *	2757 *	2321 *	2039 *	1881 *	1745 *	1631 *	1539 *
1.0	0	217	2270 *	2758 *	2321 *	2040 *	1882 *	1742 *	1629 *	1536 *
0.0	0	217	2267 *	2758 *	2321 *	2040 *	1882 *	1742 *	1629 *	1536 *
-1.0	0	217	2270 *	2758 *	2321 *	2040 *	1882 *	1742 *	1629 *	1536 *
-3.0	0	218	2277 *	2757 *	2321 *	2039 *	1881 *	1745 *	1631 *	1539 *
-5.0	0	218	2284 *	2761 *	2327 *	2046 *	1888 *	1750 *	1636 *	1545 *
-7.0	0	219	2256 *	2765 *	2333 *	2053 *	1896 *	1757 *	1644 *	1554 *
-9.0	0	219	2240 *	2769 *	2340 *	2062 *	1906 *	1767 *	1655 *	1566 *
-11.0	0	219	2218 *	2775 *	2349 *	2073 *	1917 *	1779 *	1667 *	1580 *
-13.0	0	213	2190 *	2780 *	2359 *	2086 *	1931 *	1793 *	1683 *	1597 *
-15.0	0	211	2157 *	2786 *	2371 *	2101 *	1947 *	1809 *	1701 *	1616 *
-17.0	0	209	2118 *	2793 *	2385 *	2119 *	1964 *	1828 *	1721 *	1636 *
-19.5	0	206	2064 *	2804 *	2404 *	2141 *	1990 *	1855 *	1749 *	1666 *
-22.5	0	201	2003 *	2820 *	2430 *	2170 *	2026 *	1891 *	1787 *	1706 *
-25.5	0	196	1932 *	2836 *	2453 *	2200 *	2064 *	1931 *	1830 *	1752 *
-29.0	0	189	1838 *	2857 *	2483 *	2238 *	2101 *	1978 *	1885 *	1809 *
-33.0	0	180	1717 *	2885 *	2525 *	2282 *	2147 *	2032 *	1948 *	1881 *
-37.5	0	169	1562 *	2907 *	2579 *	2336 *	2206 *	2102 *	2023 *	1963 *
-42.5	0	154	1360 *	2910 *	2651 *	2417 *	2290 *	2192 *	2119 *	2066 *
-47.5	0	137	1126 *	2860 *	2752 *	2514 *	2397 *	2297 *	2234 *	2186 *
-55.0	0	110	842 *	2650 *	2916 *	2722 *	2615 *	2525 *	2463 *	2415 *
-65.0	0	76	500 *	1975 *	3054 *	3089 *	3027 *	2969 *	2928 *	2882 *
-75.0	0	47	263	1010 *	2444 *	3145 *	3254 *	3176 *	3131 *	2993 *
-85.0	0	16	84	271	613 *	792 *	918 *	1019 *	1022 *	920 *
-90.0	0	0	0	1	1	1	1	2	2	2

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>-25.5</u>	<u>-22.5</u>	<u>-19.5</u>	<u>-17.0</u>	<u>-15.0</u>	<u>-13.0</u>	<u>-11.0</u>	<u>-9.0</u>	<u>-7.0</u>	<u>-5.0</u>
90.0	2	1	1	1	1	1	1	1	1	0
85.0	812 *	717 *	617 *	530 *	454 *	427 *	406 *	373 *	340 *	306
75.0	2903 *	2809 *	2699 *	2613 *	2546 *	2489 *	2433 *	2374 *	2312 *	2261 *
65.0	2845 *	2825 *	2785 *	2758 *	2739 *	2723 *	2706 *	2692 *	2680 *	2670 *
55.0	2388 *	2368 *	2348 *	2334 *	2324 *	2317 *	2312 *	2309 *	2307 *	2308 *
47.5	2151 *	2128 *	2108 *	2094 *	2085 *	2078 *	2071 *	2068 *	2068 *	2069 *
42.5	2025 *	1998 *	1974 *	1957 *	1946 *	1936 *	1929 *	1923 *	1919 *	1917 *
37.5	1917 *	1882 *	1855 *	1834 *	1819 *	1807 *	1796 *	1787 *	1781 *	1777 *
33.0	1830 *	1790 *	1755 *	1732 *	1715 *	1700 *	1686 *	1674 *	1666 *	1660 *
29.0	1754 *	1710 *	1672 *	1643 *	1623 *	1605 *	1589 *	1576 *	1567 *	1560 *
25.5	1691 *	1644 *	1601 *	1569 *	1547 *	1527 *	1510 *	1497 *	1486 *	1479 *
22.5	1643 *	1593 *	1547 *	1513 *	1489 *	1468 *	1448 *	1435 *	1425 *	1417 *
19.5	1599 *	1547 *	1500 *	1465 *	1440 *	1417 *	1398 *	1383 *	1372 *	1364 *
17.0	1568 *	1514 *	1466 *	1431 *	1404 *	1382 *	1362 *	1347 *	1336 *	1327 *
15.0	1546 *	1492 *	1443 *	1406 *	1381 *	1357 *	1338 *	1322 *	1310 *	1302 *
13.0	1527 *	1471 *	1423 *	1387 *	1359 *	1337 *	1318 *	1302 *	1289 *	1281 *
11.0	1509 *	1454 *	1406 *	1369 *	1344 *	1321 *	1301 *	1285 *	1271 *	1262 *
9.0	1495 *	1440 *	1392 *	1356 *	1330 *	1308 *	1288 *	1271 *	1258 *	1247 *
7.0	1483 *	1428 *	1380 *	1345 *	1320 *	1298 *	1279 *	1263 *	1247 *	1237 *
5.0	1473 *	1418 *	1370 *	1336 *	1312 *	1291 *	1273 *	1257 *	1244 *	1231 *
3.0	1466 *	1411 *	1364 *	1330 *	1307 *	1287 *	1271 *	1256 *	1243 *	1233 *
1.0	1463 *	1408 *	1362 *	1328 *	1304 *	1284 *	1267 *	1254 *	1243 *	1234 *
0.0	1462 *	1409 *	1362 *	1329 *	1305 *	1285 *	1269 *	1255 *	1244 *	1236 *
-1.0	1463 *	1408 *	1362 *	1328 *	1304 *	1284 *	1267 *	1254 *	1243 *	1234 *
-3.0	1466 *	1411 *	1364 *	1330 *	1307 *	1287 *	1271 *	1256 *	1243 *	1233 *
-5.0	1473 *	1418 *	1370 *	1336 *	1312 *	1291 *	1273 *	1257 *	1244 *	1231 *
-7.0	1483 *	1428 *	1380 *	1345 *	1320 *	1298 *	1279 *	1263 *	1247 *	1237 *
-9.0	1495 *	1440 *	1392 *	1356 *	1330 *	1308 *	1288 *	1271 *	1258 *	1247 *
-11.0	1509 *	1454 *	1406 *	1369 *	1344 *	1321 *	1301 *	1285 *	1271 *	1262 *
-13.0	1527 *	1471 *	1423 *	1387 *	1359 *	1337 *	1318 *	1302 *	1289 *	1281 *
-15.0	1546 *	1492 *	1443 *	1406 *	1381 *	1357 *	1338 *	1322 *	1310 *	1302 *
-17.0	1568 *	1514 *	1466 *	1431 *	1404 *	1382 *	1362 *	1347 *	1336 *	1327 *
-19.5	1599 *	1547 *	1500 *	1465 *	1440 *	1417 *	1398 *	1383 *	1372 *	1364 *
-22.5	1643 *	1593 *	1547 *	1513 *	1489 *	1468 *	1448 *	1435 *	1425 *	1417 *
-25.5	1691 *	1644 *	1601 *	1569 *	1547 *	1527 *	1510 *	1497 *	1486 *	1479 *
-29.0	1754 *	1710 *	1672 *	1643 *	1623 *	1605 *	1589 *	1576 *	1567 *	1560 *
-33.0	1830 *	1790 *	1755 *	1732 *	1715 *	1700 *	1686 *	1674 *	1666 *	1660 *
-37.5	1917 *	1882 *	1855 *	1834 *	1819 *	1807 *	1796 *	1787 *	1781 *	1777 *
-42.5	2025 *	1998 *	1974 *	1957 *	1946 *	1936 *	1929 *	1923 *	1919 *	1917 *
-47.5	2151 *	2128 *	2108 *	2094 *	2085 *	2078 *	2071 *	2068 *	2068 *	2069 *
-55.0	2388 *	2368 *	2348 *	2334 *	2324 *	2317 *	2312 *	2309 *	2307 *	2308 *
-65.0	2845 *	2825 *	2785 *	2758 *	2739 *	2723 *	2706 *	2692 *	2680 *	2670 *
-75.0	2903 *	2809 *	2699 *	2613 *	2546 *	2489 *	2433 *	2374 *	2312 *	2261 *
-85.0	812 *	717 *	617 *	530 *	454 *	427 *	406 *	373 *	340 *	306
-90.0	2	1	1	1	1	1	1	1	1	0

Vert. Angles	Horizontal Angles									
	<u>-3.0</u>	<u>-1.0</u>	<u>0.0</u>	<u>1.0</u>	<u>3.0</u>	<u>5.0</u>	<u>7.0</u>	<u>9.0</u>	<u>11.0</u>	<u>13.0</u>
90.0	0	0	0	0	0	0	1	1	1	1
85.0	296	286	281	286	296	306	340 *	373 *	406 *	427 *
75.0	2234 *	2212 *	2201 *	2212 *	2234 *	2261 *	2312 *	2374 *	2433 *	2489 *
65.0	2665 *	2665 *	2665 *	2665 *	2665 *	2670 *	2680 *	2692 *	2706 *	2723 *

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CANDELA TABULATION - (Cont.)

55.0	2307 *	2310 *	2312 *	2310 *	2307 *	2308 *	2307 *	2309 *	2312 *	2317 *
47.5	2068 *	2073 *	2075 *	2073 *	2068 *	2069 *	2068 *	2068 *	2071 *	2078 *
42.5	1914 *	1919 *	1922 *	1919 *	1914 *	1917 *	1919 *	1923 *	1929 *	1936 *
37.5	1775 *	1775 *	1777 *	1775 *	1775 *	1777 *	1781 *	1787 *	1796 *	1807 *
33.0	1658 *	1658 *	1659 *	1658 *	1658 *	1660 *	1666 *	1674 *	1686 *	1700 *
29.0	1556 *	1556 *	1557 *	1556 *	1556 *	1560 *	1567 *	1576 *	1589 *	1605 *
25.5	1474 *	1473 *	1474 *	1473 *	1474 *	1479 *	1486 *	1497 *	1510 *	1527 *
22.5	1412 *	1410 *	1412 *	1410 *	1412 *	1417 *	1425 *	1435 *	1448 *	1468 *
19.5	1360 *	1359 *	1360 *	1359 *	1360 *	1364 *	1372 *	1383 *	1398 *	1417 *
17.0	1322 *	1321 *	1322 *	1321 *	1322 *	1327 *	1336 *	1347 *	1362 *	1382 *
15.0	1297 *	1294 *	1295 *	1294 *	1297 *	1302 *	1310 *	1322 *	1338 *	1357 *
13.0	1275 *	1272 *	1273 *	1272 *	1275 *	1281 *	1289 *	1302 *	1318 *	1337 *
11.0	1257 *	1254 *	1254 *	1254 *	1257 *	1262 *	1271 *	1285 *	1301 *	1321 *
9.0	1241 *	1239 *	1239 *	1239 *	1241 *	1247 *	1258 *	1271 *	1288 *	1308 *
7.0	1229 *	1226 *	1227 *	1226 *	1229 *	1237 *	1247 *	1263 *	1279 *	1298 *
5.0	1222 *	1217 *	1218 *	1217 *	1222 *	1231 *	1244 *	1257 *	1273 *	1291 *
3.0	1221 *	1212 *	1213 *	1212 *	1221 *	1233 *	1243 *	1256 *	1271 *	1287 *
1.0	1229 *	1216 *	1214 *	1216 *	1229 *	1234 *	1243 *	1254 *	1267 *	1284 *
0.0	1232 *	1222 *	1216 *	1222 *	1232 *	1236 *	1244 *	1255 *	1269 *	1285 *
-1.0	1229 *	1216 *	1214 *	1216 *	1229 *	1234 *	1243 *	1254 *	1267 *	1284 *
-3.0	1221 *	1212 *	1213 *	1212 *	1221 *	1233 *	1243 *	1256 *	1271 *	1287 *
-5.0	1222 *	1217 *	1218 *	1217 *	1222 *	1231 *	1244 *	1257 *	1273 *	1291 *
-7.0	1229 *	1226 *	1227 *	1226 *	1229 *	1237 *	1247 *	1263 *	1279 *	1298 *
-9.0	1241 *	1239 *	1239 *	1239 *	1241 *	1247 *	1258 *	1271 *	1288 *	1308 *
-11.0	1257 *	1254 *	1254 *	1254 *	1257 *	1262 *	1271 *	1285 *	1301 *	1321 *
-13.0	1275 *	1272 *	1273 *	1272 *	1275 *	1281 *	1289 *	1302 *	1318 *	1337 *
-15.0	1297 *	1294 *	1295 *	1294 *	1297 *	1302 *	1310 *	1322 *	1338 *	1357 *
-17.0	1322 *	1321 *	1322 *	1321 *	1322 *	1327 *	1336 *	1347 *	1362 *	1382 *
-19.5	1360 *	1359 *	1360 *	1359 *	1360 *	1364 *	1372 *	1383 *	1398 *	1417 *
-22.5	1412 *	1410 *	1412 *	1410 *	1412 *	1417 *	1425 *	1435 *	1448 *	1468 *
-25.5	1474 *	1473 *	1474 *	1473 *	1474 *	1479 *	1486 *	1497 *	1510 *	1527 *
-29.0	1556 *	1556 *	1557 *	1556 *	1556 *	1560 *	1567 *	1576 *	1589 *	1605 *
-33.0	1658 *	1658 *	1659 *	1658 *	1658 *	1660 *	1666 *	1674 *	1686 *	1700 *
-37.5	1775 *	1775 *	1777 *	1775 *	1775 *	1777 *	1781 *	1787 *	1796 *	1807 *
-42.5	1914 *	1919 *	1922 *	1919 *	1914 *	1917 *	1919 *	1923 *	1929 *	1936 *
-47.5	2068 *	2073 *	2075 *	2073 *	2068 *	2069 *	2068 *	2068 *	2071 *	2078 *
-55.0	2307 *	2310 *	2312 *	2310 *	2307 *	2308 *	2307 *	2309 *	2312 *	2317 *
-65.0	2665 *	2665 *	2665 *	2665 *	2665 *	2670 *	2680 *	2692 *	2706 *	2723 *
-75.0	2234 *	2212 *	2201 *	2212 *	2234 *	2261 *	2312 *	2374 *	2433 *	2489 *
-85.0	296	286	281	286	296	306	340 *	373 *	406 *	427 *
-90.0	0	0	0	0	0	0	1	1	1	1

Vert. Angles **Horizontal Angles**

	<u>15.0</u>	<u>17.0</u>	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29.0</u>	<u>33.0</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>
90.0	1	1	1	1	2	2	2	2	1	1
85.0	454 *	530 *	617 *	717 *	812 *	920 *	1022 *	1019 *	918 *	792 *
75.0	2546 *	2613 *	2699 *	2809 *	2903 *	2993 *	3131 *	3176 *	3254 *	3145 *
65.0	2739 *	2758 *	2785 *	2825 *	2845 *	2882 *	2928 *	2969 *	3027 *	3089 *
55.0	2324 *	2334 *	2348 *	2368 *	2388 *	2415 *	2463 *	2525 *	2615 *	2722 *
47.5	2085 *	2094 *	2108 *	2128 *	2151 *	2186 *	2234 *	2297 *	2397 *	2514 *
42.5	1946 *	1957 *	1974 *	1998 *	2025 *	2066 *	2119 *	2192 *	2290 *	2417 *
37.5	1819 *	1834 *	1855 *	1882 *	1917 *	1963 *	2023 *	2102 *	2206 *	2336 *
33.0	1715 *	1732 *	1755 *	1790 *	1830 *	1881 *	1948 *	2032 *	2147 *	2282 *
29.0	1623 *	1643 *	1672 *	1710 *	1754 *	1809 *	1885 *	1978 *	2101 *	2238 *
25.5	1547 *	1569 *	1601 *	1644 *	1691 *	1752 *	1830 *	1931 *	2064 *	2200 *

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CANDELA TABULATION - (Cont.)

22.5	1489 *	1513 *	1547 *	1593 *	1643 *	1706 *	1787 *	1891 *	2026 *	2170 *
19.5	1440 *	1465 *	1500 *	1547 *	1599 *	1666 *	1749 *	1855 *	1990 *	2141 *
17.0	1404 *	1431 *	1466 *	1514 *	1568 *	1636 *	1721 *	1828 *	1964 *	2119 *
15.0	1381 *	1406 *	1443 *	1492 *	1546 *	1616 *	1701 *	1809 *	1947 *	2101 *
13.0	1359 *	1387 *	1423 *	1471 *	1527 *	1597 *	1683 *	1793 *	1931 *	2086 *
11.0	1344 *	1369 *	1406 *	1454 *	1509 *	1580 *	1667 *	1779 *	1917 *	2073 *
9.0	1330 *	1356 *	1392 *	1440 *	1495 *	1566 *	1655 *	1767 *	1906 *	2062 *
7.0	1320 *	1345 *	1380 *	1428 *	1483 *	1554 *	1644 *	1757 *	1896 *	2053 *
5.0	1312 *	1336 *	1370 *	1418 *	1473 *	1545 *	1636 *	1750 *	1888 *	2046 *
3.0	1307 *	1330 *	1364 *	1411 *	1466 *	1539 *	1631 *	1745 *	1881 *	2039 *
1.0	1304 *	1328 *	1362 *	1408 *	1463 *	1536 *	1629 *	1742 *	1882 *	2040 *
0.0	1305 *	1329 *	1362 *	1409 *	1462 *	1536 *	1629 *	1742 *	1882 *	2040 *
-1.0	1304 *	1328 *	1362 *	1408 *	1463 *	1536 *	1629 *	1742 *	1882 *	2040 *
-3.0	1307 *	1330 *	1364 *	1411 *	1466 *	1539 *	1631 *	1745 *	1881 *	2039 *
-5.0	1312 *	1336 *	1370 *	1418 *	1473 *	1545 *	1636 *	1750 *	1888 *	2046 *
-7.0	1320 *	1345 *	1380 *	1428 *	1483 *	1554 *	1644 *	1757 *	1896 *	2053 *
-9.0	1330 *	1356 *	1392 *	1440 *	1495 *	1566 *	1655 *	1767 *	1906 *	2062 *
-11.0	1344 *	1369 *	1406 *	1454 *	1509 *	1580 *	1667 *	1779 *	1917 *	2073 *
-13.0	1359 *	1387 *	1423 *	1471 *	1527 *	1597 *	1683 *	1793 *	1931 *	2086 *
-15.0	1381 *	1406 *	1443 *	1492 *	1546 *	1616 *	1701 *	1809 *	1947 *	2101 *
-17.0	1404 *	1431 *	1466 *	1514 *	1568 *	1636 *	1721 *	1828 *	1964 *	2119 *
-19.5	1440 *	1465 *	1500 *	1547 *	1599 *	1666 *	1749 *	1855 *	1990 *	2141 *
-22.5	1489 *	1513 *	1547 *	1593 *	1643 *	1706 *	1787 *	1891 *	2026 *	2170 *
-25.5	1547 *	1569 *	1601 *	1644 *	1691 *	1752 *	1830 *	1931 *	2064 *	2200 *
-29.0	1623 *	1643 *	1672 *	1710 *	1754 *	1809 *	1885 *	1978 *	2101 *	2238 *
-33.0	1715 *	1732 *	1755 *	1790 *	1830 *	1881 *	1948 *	2032 *	2147 *	2282 *
-37.5	1819 *	1834 *	1855 *	1882 *	1917 *	1963 *	2023 *	2102 *	2206 *	2336 *
-42.5	1946 *	1957 *	1974 *	1998 *	2025 *	2066 *	2119 *	2192 *	2290 *	2417 *
-47.5	2085 *	2094 *	2108 *	2128 *	2151 *	2186 *	2234 *	2297 *	2397 *	2514 *
-55.0	2324 *	2334 *	2348 *	2368 *	2388 *	2415 *	2463 *	2525 *	2615 *	2722 *
-65.0	2739 *	2758 *	2785 *	2825 *	2845 *	2882 *	2928 *	2969 *	3027 *	3089 *
-75.0	2546 *	2613 *	2699 *	2809 *	2903 *	2993 *	3131 *	3176 *	3254 *	3145 *
-85.0	454 *	530 *	617 *	717 *	812 *	920 *	1022 *	1019 *	918 *	792 *
-90.0	1	1	1	1	2	2	2	2	1	1

Vert. Angles **Horizontal Angles**

	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>	<u>90.0</u>
90.0	1	1	0	0	0
85.0	613 *	271	84	16	0
75.0	2444 *	1010 *	263	47	0
65.0	3054 *	1975 *	500 *	76	0
55.0	2916 *	2650 *	842 *	110	0
47.5	2752 *	2860 *	1126 *	137	0
42.5	2651 *	2910 *	1360 *	154	0
37.5	2579 *	2907 *	1562 *	169	0
33.0	2525 *	2885 *	1717 *	180	0
29.0	2483 *	2857 *	1838 *	189	0
25.5	2453 *	2836 *	1932 *	196	0
22.5	2430 *	2820 *	2003 *	201	0
19.5	2404 *	2804 *	2064 *	206	0
17.0	2385 *	2793 *	2118 *	209	0
15.0	2371 *	2786 *	2157 *	211	0
13.0	2359 *	2780 *	2190 *	213	0
11.0	2349 *	2775 *	2218 *	219	0
9.0	2340 *	2769 *	2240 *	219	0

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CANDELA TABULATION - (Cont.)

7.0	2333 *	2765 *	2256 *	219	0
5.0	2327 *	2761 *	2284 *	218	0
3.0	2321 *	2757 *	2277 *	218	0
1.0	2321 *	2758 *	2270 *	217	0
0.0	2321 *	2758 *	2267 *	217	0
-1.0	2321 *	2758 *	2270 *	217	0
-3.0	2321 *	2757 *	2277 *	218	0
-5.0	2327 *	2761 *	2284 *	218	0
-7.0	2333 *	2765 *	2256 *	219	0
-9.0	2340 *	2769 *	2240 *	219	0
-11.0	2349 *	2775 *	2218 *	219	0
-13.0	2359 *	2780 *	2190 *	213	0
-15.0	2371 *	2786 *	2157 *	211	0
-17.0	2385 *	2793 *	2118 *	209	0
-19.5	2404 *	2804 *	2064 *	206	0
-22.5	2430 *	2820 *	2003 *	201	0
-25.5	2453 *	2836 *	1932 *	196	0
-29.0	2483 *	2857 *	1838 *	189	0
-33.0	2525 *	2885 *	1717 *	180	0
-37.5	2579 *	2907 *	1562 *	169	0
-42.5	2651 *	2910 *	1360 *	154	0
-47.5	2752 *	2860 *	1126 *	137	0
-55.0	2916 *	2650 *	842 *	110	0
-65.0	3054 *	1975 *	500 *	76	0
-75.0	2444 *	1010 *	263	47	0
-85.0	613 *	271	84	16	0
-90.0	1	1	0	0	0

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 6030.82

Total Field Lumens (one side of beam only) = 6010.64

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
90										
85	0.22	0.44	0.46	0.49	0.54	0.59	0.62	0.65	0.72	1.04
75	3.79 *	7.65 *	7.74 *	7.91 *	8.14 *	8.38 *	8.57 *	8.74 *	8.99 *	11.68 *
65	7.42 *	14.88 *	14.93 *	15.03 *	15.17 *	15.31 *	15.42 *	15.51 *	15.60 *	19.63 *
55	7.58 *	15.14 *	15.12 *	15.09 *	15.06 *	15.03 *	14.98 *	14.93 *	14.87 *	18.49 *
47.5	5.01 *	10.00 *	9.97 *	9.94 *	9.90 *	9.85 *	9.81 *	9.76 *	9.70 *	12.05 *
42.5	3.04 *	6.07 *	6.05 *	6.04 *	6.02 *	5.99 *	5.97 *	5.94 *	5.92 *	7.35 *
37.5	2.81 *	5.62 *	5.61 *	5.60 *	5.59 *	5.58 *	5.56 *	5.55 *	5.53 *	6.89 *
33	2.35 *	4.70 *	4.70 *	4.69 *	4.69 *	4.69 *	4.69 *	4.68 *	4.68 *	5.84 *
29	1.96 *	3.91 *	3.91 *	3.91 *	3.91 *	3.91 *	3.92 *	3.93 *	3.93 *	4.92 *
25.5	1.62 *	3.23 *	3.23 *	3.23 *	3.23 *	3.24 *	3.25 *	3.26 *	3.27 *	4.10 *
22.5	1.32 *	2.63 *	2.64 *	2.64 *	2.64 *	2.65 *	2.66 *	2.67 *	2.69 *	3.38 *
19.5	1.27 *	2.53 *	2.53 *	2.53 *	2.54 *	2.55 *	2.56 *	2.58 *	2.59 *	3.27 *
17	1.02 *	2.04 *	2.04 *	2.04 *	2.05 *	2.06 *	2.07 *	2.08 *	2.10 *	2.65 *
15	0.80 *	1.59 *	1.59 *	1.60 *	1.60 *	1.61 *	1.62 *	1.63 *	1.65 *	2.08 *
13	0.78 *	1.56 *	1.57 *	1.57 *	1.58 *	1.58 *	1.59 *	1.61 *	1.62 *	2.05 *
11	0.77 *	1.54 *	1.54 *	1.55 *	1.55 *	1.56 *	1.57 *	1.58 *	1.60 *	2.02 *
9	0.76 *	1.52 *	1.52 *	1.53 *	1.53 *	1.54 *	1.55 *	1.57 *	1.58 *	2.00 *
7	0.75 *	1.50 *	1.51 *	1.51 *	1.52 *	1.53 *	1.54 *	1.55 *	1.57 *	1.98 *
5	0.74 *	1.49 *	1.49 *	1.50 *	1.51 *	1.52 *	1.53 *	1.54 *	1.56 *	1.96 *
3	0.74 *	1.48 *	1.49 *	1.50 *	1.51 *	1.52 *	1.53 *	1.54 *	1.55 *	1.95 *
1	0.74 *	1.48 *	1.49 *	1.50 *	1.51 *	1.51 *	1.52 *	1.53 *	1.54 *	1.95 *
0	0.37 *	0.75 *	0.75 *	0.75 *	0.75 *	0.76 *	0.76 *	0.77 *	0.77 *	0.97 *
-1	0.37 *	0.75 *	0.75 *	0.75 *	0.75 *	0.76 *	0.76 *	0.77 *	0.77 *	0.97 *
	0.74 *	1.48 *	1.49 *	1.50 *	1.51 *	1.51 *	1.52 *	1.53 *	1.54 *	1.95 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-3	0.74 *	1.48 *	1.49 *	1.50 *	1.51 *	1.52 *	1.53 *	1.54 *	1.55 *	1.95 *
-5	0.74 *	1.49 *	1.49 *	1.50 *	1.51 *	1.52 *	1.53 *	1.54 *	1.56 *	1.96 *
-7	0.75 *	1.50 *	1.51 *	1.51 *	1.52 *	1.53 *	1.54 *	1.55 *	1.57 *	1.98 *
-9	0.76 *	1.52 *	1.52 *	1.53 *	1.53 *	1.54 *	1.55 *	1.57 *	1.58 *	2.00 *
-11	0.77 *	1.54 *	1.54 *	1.55 *	1.55 *	1.56 *	1.57 *	1.58 *	1.60 *	2.02 *
-13	0.78 *	1.56 *	1.57 *	1.57 *	1.58 *	1.58 *	1.59 *	1.61 *	1.62 *	2.05 *
-15	0.80 *	1.59 *	1.59 *	1.60 *	1.60 *	1.61 *	1.62 *	1.63 *	1.65 *	2.08 *
-17	1.02 *	2.04 *	2.04 *	2.04 *	2.05 *	2.06 *	2.07 *	2.08 *	2.10 *	2.65 *
-19.5	1.27 *	2.53 *	2.53 *	2.53 *	2.54 *	2.55 *	2.56 *	2.58 *	2.59 *	3.27 *
-22.5	1.32 *	2.63 *	2.64 *	2.64 *	2.64 *	2.65 *	2.66 *	2.67 *	2.69 *	3.38 *
-25.5	1.62 *	3.23 *	3.23 *	3.23 *	3.23 *	3.24 *	3.25 *	3.26 *	3.27 *	4.10 *
-29	1.96 *	3.91 *	3.91 *	3.91 *	3.91 *	3.91 *	3.92 *	3.93 *	3.93 *	4.92 *
-33	2.35 *	4.70 *	4.70 *	4.69 *	4.69 *	4.69 *	4.69 *	4.68 *	4.68 *	5.84 *
-37.5	2.81 *	5.62 *	5.61 *	5.60 *	5.59 *	5.58 *	5.56 *	5.55 *	5.53 *	6.89 *
-42.5	3.04 *	6.07 *	6.05 *	6.04 *	6.02 *	5.99 *	5.97 *	5.94 *	5.92 *	7.35 *
-47.5	5.01 *	10.00 *	9.97 *	9.94 *	9.90 *	9.85 *	9.81 *	9.76 *	9.70 *	12.05 *
-55	7.58 *	15.14 *	15.12 *	15.09 *	15.06 *	15.03 *	14.98 *	14.93 *	14.87 *	18.49 *
-65	7.42 *	14.88 *	14.93 *	15.03 *	15.17 *	15.31 *	15.42 *	15.51 *	15.60 *	19.63 *
-75	3.79 *	7.65 *	7.74 *	7.91 *	8.14 *	8.38 *	8.57 *	8.74 *	8.99 *	11.68 *
-85	0.22	0.44	0.46	0.49	0.54	0.59	0.62	0.65	0.72	1.04
-90										
Total	91.71	183.54	183.77	184.31	185.10	185.91	186.62	187.22	188.05	236.45

Vert. Horizontal Angles

	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29</u>	<u>33</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>	<u>55</u>	<u>65</u>
90	1.42 *	1.60 *	2.06 *	2.54 *	2.86 *	2.83 *	2.30 *	2.51 *	1.68	0.46
85	14.59 *	15.11 *	18.07 *	21.06 *	23.36 *	24.40 *	21.83 *	24.99 *	16.50 *	4.23 *
75	23.71 *	23.75 *	27.54 *	31.15 *	34.15 *	36.23 *	33.69 *	41.91 *	32.26 *	9.75 *
65	22.02 *	21.76 *	24.95 *	27.90 *	30.45 *	32.47 *	30.83 *	42.09 *	40.29 *	15.52 *
55	14.32 *	14.14 *	16.24 *	18.20 *	19.97 *	21.51 *	20.69 *	29.22 *	31.88 *	14.59 *

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LUMENS TABULATION - (Cont.)

47.5										
	8.75 *	8.66 *	9.98 *	11.23 *	12.37 *	13.38 *	12.94 *	18.46 *	21.24 *	10.74 *
42.5	8.22 *	8.16 *	9.44 *	10.67 *	11.80 *	12.82 *	12.45 *	17.83 *	21.01 *	11.37 *
37.5	6.99 *	6.97 *	8.09 *	9.18 *	10.20 *	11.14 *	10.87 *	15.63 *	18.65 *	10.62 *
33	5.91 *	5.91 *	6.89 *	7.86 *	8.78 *	9.63 *	9.44 *	13.62 *	16.35 *	9.67 *
29	4.95 *	4.97 *	5.81 *	6.65 *	7.47 *	8.24 *	8.10 *	11.72 *	14.15 *	8.62 *
25.5	4.09 *	4.11 *	4.83 *	5.54 *	6.24 *	6.92 *	6.83 *	9.92 *	12.02 *	7.48 *
22.5	3.96 *	4.00 *	4.70 *	5.41 *	6.11 *	6.79 *	6.72 *	9.80 *	11.93 *	7.56 *
19.5	3.21 *	3.25 *	3.83 *	4.42 *	5.00 *	5.57 *	5.53 *	8.08 *	9.87 *	6.36 *
17	2.52 *	2.55 *	3.02 *	3.48 *	3.95 *	4.40 *	4.38 *	6.41 *	7.86 *	5.13 *
15	2.49 *	2.52 *	2.98 *	3.44 *	3.91 *	4.36 *	4.34 *	6.37 *	7.83 *	5.16 *
13	2.45 *	2.49 *	2.94 *	3.41 *	3.87 *	4.33 *	4.31 *	6.34 *	7.81 *	5.18 *
11	2.43 *	2.46 *	2.91 *	3.38 *	3.84 *	4.30 *	4.28 *	6.30 *	7.78 *	5.20 *
9	2.41 *	2.44 *	2.89 *	3.35 *	3.82 *	4.27 *	4.26 *	6.28 *	7.76 *	5.22 *
7	2.39 *	2.42 *	2.87 *	3.33 *	3.80 *	4.25 *	4.24 *	6.26 *	7.75 *	5.24 *
5	2.37 *	2.41 *	2.85 *	3.32 *	3.78 *	4.24 *	4.23 *	6.24 *	7.73 *	5.24 *
3	2.37 *	2.40 *	2.84 *	3.31 *	3.78 *	4.23 *	4.22 *	6.23 *	7.73 *	5.23 *
1	1.18 *	1.20 *	1.42 *	1.65 *	1.89 *	2.11 *	2.11 *	3.12 *	3.86 *	2.62 *
0	1.18 *	1.20 *	1.42 *	1.65 *	1.89 *	2.11 *	2.11 *	3.12 *	3.86 *	2.62 *
-1	2.37 *	2.40 *	2.84 *	3.31 *	3.78 *	4.23 *	4.22 *	6.23 *	7.73 *	5.23 *
-3	2.37 *	2.41 *	2.85 *	3.32 *	3.78 *	4.24 *	4.23 *	6.24 *	7.73 *	5.24 *
-5	2.39 *	2.42 *	2.87 *	3.33 *	3.80 *	4.25 *	4.24 *	6.26 *	7.75 *	5.24 *
-7	2.41 *	2.44 *	2.89 *	3.35 *	3.82 *	4.27 *	4.26 *	6.28 *	7.76 *	5.22 *
-9	2.43 *	2.46 *	2.91 *	3.38 *	3.84 *	4.30 *	4.28 *	6.30 *	7.78 *	5.20 *
-11	2.45 *	2.49 *	2.94 *	3.41 *	3.87 *	4.33 *	4.31 *	6.34 *	7.81 *	5.18 *
-13	2.49 *	2.52 *	2.98 *	3.44 *	3.91 *	4.36 *	4.34 *	6.37 *	7.83 *	5.16 *
-15	2.52 *	2.55 *	3.02 *	3.48 *	3.95 *	4.40 *	4.38 *	6.41 *	7.86 *	5.13 *
-17	3.21 *	3.25 *	3.83 *	4.42 *	5.00 *	5.57 *	5.53 *	8.08 *	9.87 *	6.36 *
-19.5	3.96 *	4.00 *	4.70 *	5.41 *	6.11 *	6.79 *	6.72 *	9.80 *	11.93 *	7.56 *

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LUMENS TABULATION - (Cont.)

-22.5	4.09 *	4.11 *	4.83 *	5.54 *	6.24 *	6.92 *	6.83 *	9.92 *	12.02 *	7.48 *
-25.5	4.95 *	4.97 *	5.81 *	6.65 *	7.47 *	8.24 *	8.10 *	11.72 *	14.15 *	8.62 *
-29	5.91 *	5.91 *	6.89 *	7.86 *	8.78 *	9.63 *	9.44 *	13.62 *	16.35 *	9.67 *
-33	6.99 *	6.97 *	8.09 *	9.18 *	10.20 *	11.14 *	10.87 *	15.63 *	18.65 *	10.62 *
-37.5	8.22 *	8.16 *	9.44 *	10.67 *	11.80 *	12.82 *	12.45 *	17.83 *	21.01 *	11.37 *
-42.5	8.75 *	8.66 *	9.98 *	11.23 *	12.37 *	13.38 *	12.94 *	18.46 *	21.24 *	10.74 *
-47.5	14.32 *	14.14 *	16.24 *	18.20 *	19.97 *	21.51 *	20.69 *	29.22 *	31.88 *	14.59 *
-55	22.02 *	21.76 *	24.95 *	27.90 *	30.45 *	32.47 *	30.83 *	42.09 *	40.29 *	15.52 *
-65	23.71 *	23.75 *	27.54 *	31.15 *	34.15 *	36.23 *	33.69 *	41.91 *	32.26 *	9.75 *
-75	14.59 *	15.11 *	18.07 *	21.06 *	23.36 *	24.40 *	21.83 *	24.99 *	16.50 *	4.23 *
-85	1.42 *	1.60 *	2.06 *	2.54 *	2.86 *	2.83 *	2.30 *	2.51 *	1.68	0.46
-90										
Total	285.49	286.56	334.34	380.96	422.81	456.82	437.19	598.64	627.90	322.40

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.07	0.00	26.11
85			
	0.54	0.01	266.28
75			
	1.17	0.02	444.23
65			
	2.02 *	0.03	436.62
55			
	2.19 *	0.03	298.98
47.5			
	1.83 *	0.02	188.01
42.5			
	2.14 *	0.03	180.26
37.5			
	2.16 *	0.03	156.22
33			
	2.07 *	0.02	134.38
29			
	1.92 *	0.02	114.26
25.5			
	1.72 *	0.02	95.65
22.5			
	1.77 *	0.02	93.73
19.5			
	1.52 *	0.02	76.82
17			
	1.24 *	0.01	60.74

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

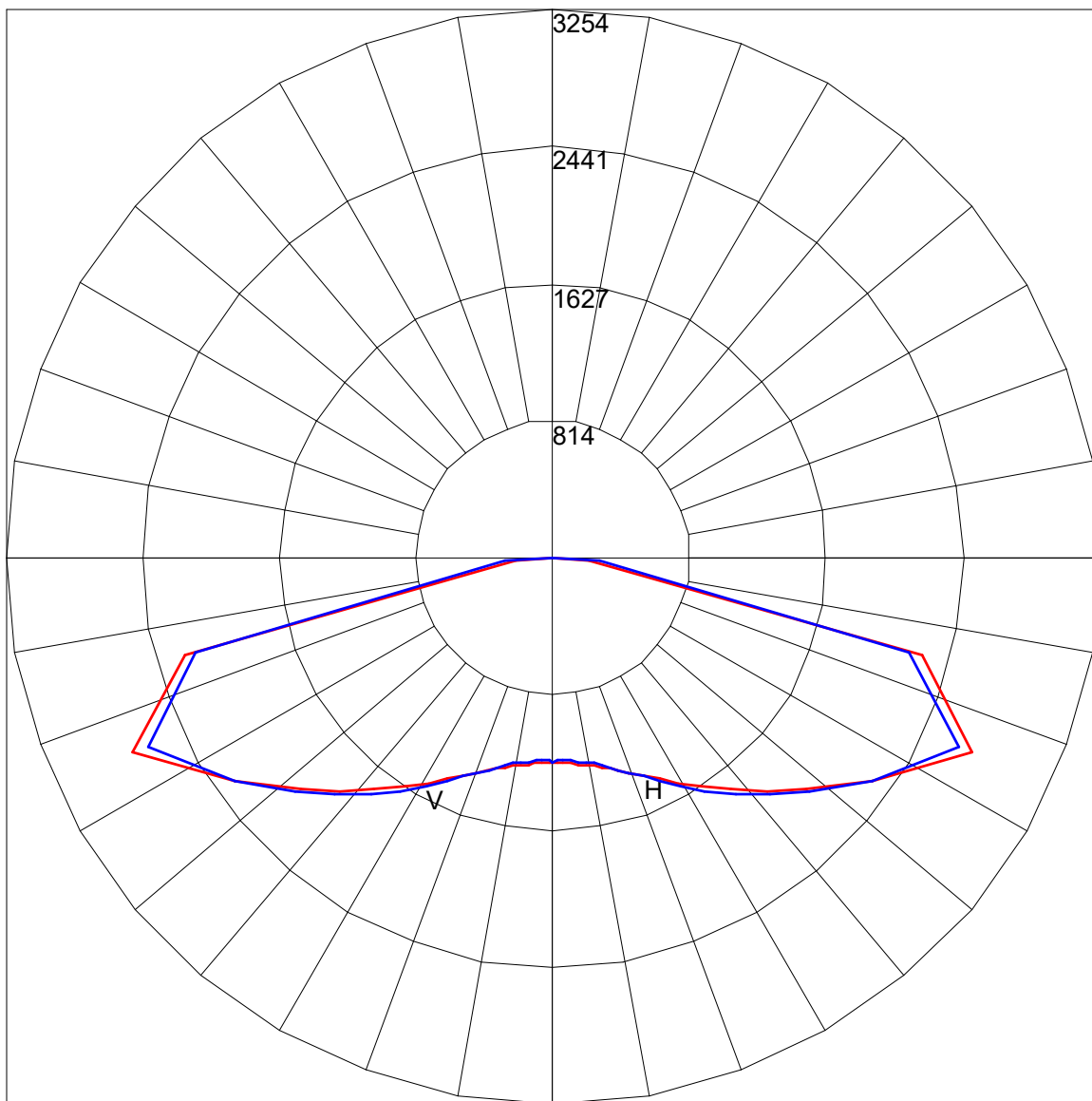
15			
	1.26 *	0.01	60.18
13			
	1.28 *	0.01	59.71
11			
	1.29 *	0.01	59.31
9			
	1.30 *	0.01	58.98
7			
	1.31 *	0.01	58.73
5			
	1.32 *	0.01	58.55
3			
	1.32 *	0.01	58.45
1			
	0.66 *	0.01	29.22
0			
	0.66 *	0.01	29.22
-1			
	1.32 *	0.01	58.45
-3			
	1.32 *	0.01	58.55
-5			
	1.31 *	0.01	58.73
-7			
	1.30 *	0.01	58.98
-9			
	1.29 *	0.01	59.31
-11			
	1.28 *	0.01	59.71
-13			
	1.26 *	0.01	60.18
-15			
	1.24 *	0.01	60.74
-17			
	1.52 *	0.02	76.82
-19.5			
	1.77 *	0.02	93.73
-22.5			
	1.72 *	0.02	95.65
-25.5			
	1.92 *	0.02	114.26
-29			
	2.07 *	0.02	134.38
-33			
	2.16 *	0.03	156.22
-37.5			
	2.14 *	0.03	180.26
-42.5			
	1.83 *	0.02	188.01
-47.5			
	2.19 *	0.03	298.98
-55			
	2.02 *	0.03	436.62
-65			
	1.17	0.02	444.23

IES FLOOD REPORT
PHOTOMETRIC FILENAME : PFL-LED-12L-PC-VWF-40-80.IES

LUMENS TABULATION - (Cont.)

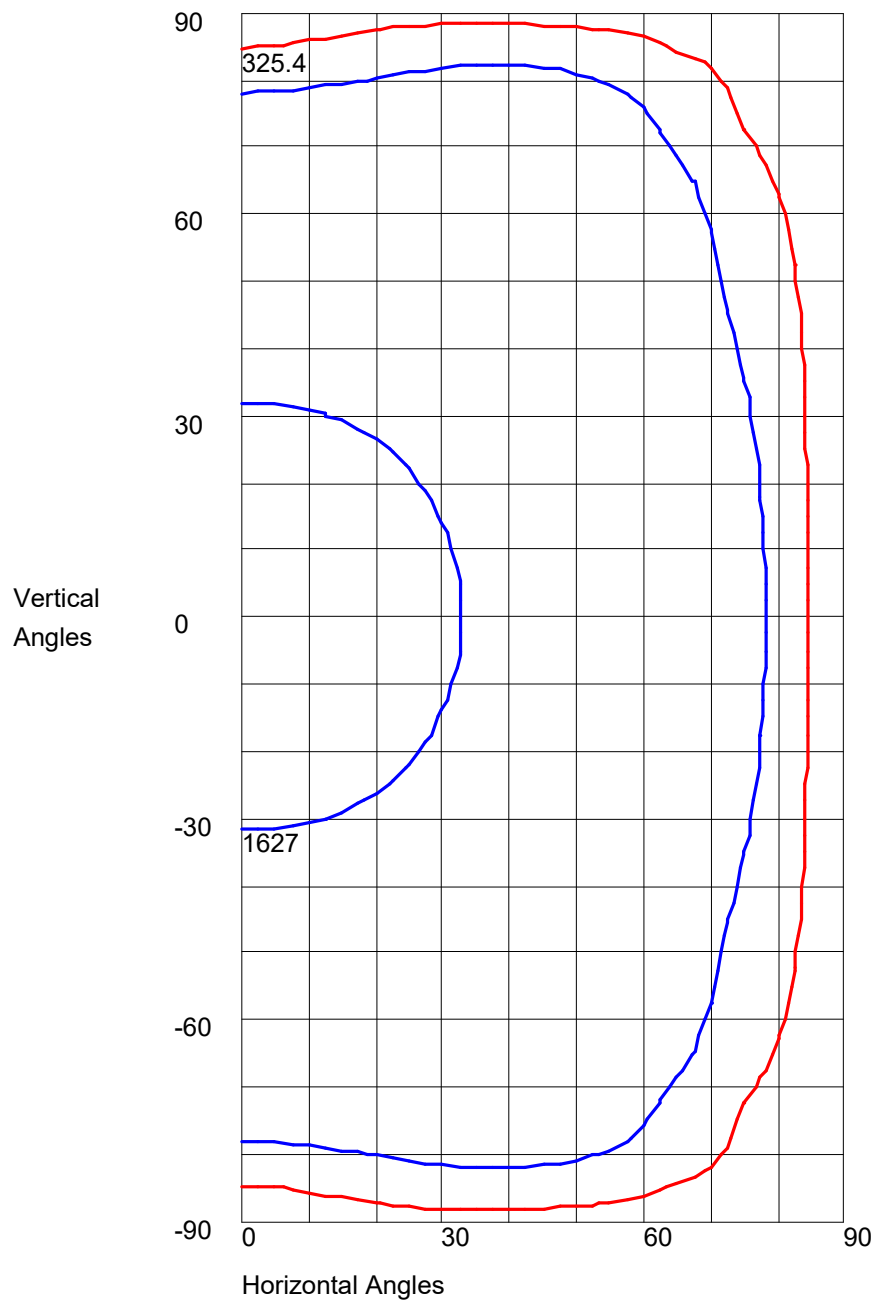
-75	0.54	0.01	266.28
-85	0.07	0.00	26.11
-90			
Total	64.21	0.79	6030.82

AXIAL CANDELA DISPLAY



Maximum Candela = 3254 Located At Horizontal Angle = -42.5, Vertical Angle = -75
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 3254 Located At Horizontal Angle = -42.5, Vertical Angle = -75
50% Maximum Candela = 1627
10% Maximum Candela = 325.4