



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFL-LED-16L-PC-VWF-40-80-FGS.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-12563  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 03/05/21  
[TEST DATE] 03/03/21  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] PFL-LED-16L-PC-VWF-40-80-FGS  
[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	6 H x 6 V
Maximum Candela	2046
Maximum Candela Angle	-11H -22.5V
Horizontal Beam Angle (50%)	113.5
Vertical Beam Angle (50%)	101.4
Horizontal Field Angle (10%)	129.0
Vertical Field Angle (10%)	125.0
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	4284
Beam Efficiency	N.A.
Field Lumens	4940
Field Efficiency	N.A.
Spill Lumens	137
Luminaire Lumens	5077
Total Efficiency	N.A.
Total Luminaire Watts	142
Ballast Factor	1.00



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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	7	85	23
75	58	75	46
65	228	65	139
55	1333	55	542
47.5	1508	47.5	1596
42.5	1624	42.5	1510
37.5	1746	37.5	1555
33	1770	33	1764
29	1785	29	1820
25.5	1806	25.5	1873
22.5	1790	22.5	1986
19.5	1811	19.5	1935
17	1808	17	1887
15	1814	15	1851
13	1816	13	1817
11	1800	11	1787
9	1780	9	1761
7	1762	7	1740
5	1747	5	1723
3	1735	3	1710
1	1720	1	1710
0	1712	0	1712
-1	1720	-1	1710
-3	1735	-3	1710
-5	1747	-5	1723
-7	1762	-7	1740
-9	1780	-9	1761
-11	1800	-11	1787
-13	1816	-13	1817
-15	1814	-15	1851
-17	1808	-17	1887
-19.5	1811	-19.5	1935
-22.5	1790	-22.5	1986
-25.5	1806	-25.5	1873
-29	1785	-29	1820
-33	1770	-33	1764
-37.5	1746	-37.5	1555
-42.5	1624	-42.5	1510
-47.5	1508	-47.5	1596
-55	1333	-55	542
-65	228	-65	139
-75	58	-75	46
-85	7	-85	23
-90	0	-90	0

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**CANDELA TABULATION**

Maximum Candela = 2046

Beam Edge = 1023 Cd (50% of Max.)

Field Edge = 204.6 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>-90.0</u></b>	<b><u>-85.0</u></b>	<b><u>-75.0</u></b>	<b><u>-65.0</u></b>	<b><u>-55.0</u></b>	<b><u>-47.5</u></b>	<b><u>-42.5</u></b>	<b><u>-37.5</u></b>	<b><u>-33.0</u></b>	<b><u>-29.0</u></b>
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	0	2	25	83	87	91	91	84	69
<b>75.0</b>	0	1	6	11	15	17	20	24	27	31
<b>65.0</b>	0	2	10	20	31	42	52	67	81	91
<b>55.0</b>	0	3	18	40	65	175	220 *	311 *	349 *	360 *
<b>47.5</b>	0	4	25	60	162	618 *	757 *	935 *	979 *	1093 *
<b>42.5</b>	0	4	30	75	365 *	796 *	916 *	1021 *	1104 *	1200 *
<b>37.5</b>	0	5	34	92	558 *	978 *	1016 *	1162 *	1242 *	1311 *
<b>33.0</b>	0	5	39	104	759 *	1143 *	1230 *	1369 *	1428 *	1524 *
<b>29.0</b>	0	6	43	111	942 *	1290 *	1394 *	1515 *	1629 *	1655 *
<b>25.5</b>	0	6	46	118	1088 *	1399 *	1524 *	1639 *	1725 *	1790 *
<b>22.5</b>	0	6	49	151	1208 *	1465 *	1589 *	1741 *	1795 *	1892 *
<b>19.5</b>	0	6	52	181	1260 *	1507 *	1634 *	1785 *	1838 *	1914 *
<b>17.0</b>	0	7	53	198	1286 *	1532 *	1664 *	1785 *	1847 *	1895 *
<b>15.0</b>	0	7	54	208 *	1303 *	1537 *	1676 *	1777 *	1841 *	1881 *
<b>13.0</b>	0	7	55	214 *	1317 *	1539 *	1675 *	1763 *	1834 *	1860 *
<b>11.0</b>	0	7	56	217 *	1328 *	1540 *	1669 *	1755 *	1820 *	1849 *
<b>9.0</b>	0	7	57	222 *	1336 *	1538 *	1662 *	1753 *	1804 *	1845 *
<b>7.0</b>	0	7	57	226 *	1341 *	1536 *	1654 *	1752 *	1791 *	1831 *
<b>5.0</b>	0	7	58	229 *	1343 *	1531 *	1645 *	1750 *	1781 *	1810 *
<b>3.0</b>	0	7	58	231 *	1345 *	1524 *	1640 *	1749 *	1773 *	1792 *
<b>1.0</b>	0	7	58	229 *	1337 *	1513 *	1629 *	1748 *	1771 *	1787 *
<b>0.0</b>	0	7	58	228 *	1333 *	1508 *	1624 *	1746 *	1770 *	1785 *
<b>-1.0</b>	0	7	58	229 *	1337 *	1513 *	1629 *	1748 *	1771 *	1787 *
<b>-3.0</b>	0	7	58	231 *	1345 *	1524 *	1640 *	1749 *	1773 *	1792 *
<b>-5.0</b>	0	7	58	229 *	1343 *	1531 *	1645 *	1750 *	1781 *	1810 *
<b>-7.0</b>	0	7	57	226 *	1341 *	1536 *	1654 *	1752 *	1791 *	1831 *
<b>-9.0</b>	0	7	57	222 *	1336 *	1538 *	1662 *	1753 *	1804 *	1845 *
<b>-11.0</b>	0	7	56	217 *	1328 *	1540 *	1669 *	1755 *	1820 *	1849 *
<b>-13.0</b>	0	7	55	214 *	1317 *	1539 *	1675 *	1763 *	1834 *	1860 *
<b>-15.0</b>	0	7	54	208 *	1303 *	1537 *	1676 *	1777 *	1841 *	1881 *
<b>-17.0</b>	0	7	53	198	1286 *	1532 *	1664 *	1785 *	1847 *	1895 *
<b>-19.5</b>	0	6	52	181	1260 *	1507 *	1634 *	1785 *	1838 *	1914 *
<b>-22.5</b>	0	6	49	151	1208 *	1465 *	1589 *	1741 *	1795 *	1892 *
<b>-25.5</b>	0	6	46	118	1088 *	1399 *	1524 *	1639 *	1725 *	1790 *
<b>-29.0</b>	0	6	43	111	942 *	1290 *	1394 *	1515 *	1629 *	1655 *
<b>-33.0</b>	0	5	39	104	759 *	1143 *	1230 *	1369 *	1428 *	1524 *
<b>-37.5</b>	0	5	34	92	558 *	978 *	1016 *	1162 *	1242 *	1311 *
<b>-42.5</b>	0	4	30	75	365 *	796 *	916 *	1021 *	1104 *	1200 *
<b>-47.5</b>	0	4	25	60	162	618 *	757 *	935 *	979 *	1093 *
<b>-55.0</b>	0	3	18	40	65	175	220 *	311 *	349 *	360 *
<b>-65.0</b>	0	2	10	20	31	42	52	67	81	91
<b>-75.0</b>	0	1	6	11	15	17	20	24	27	31
<b>-85.0</b>	0	0	2	25	83	87	91	91	84	69
<b>-90.0</b>	0	0	0	0	0	0	0	0	0	0

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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	0	0	0	0	0	0	0	0	0	0
85.0	56	47	39	31	26	24	23	22	20	19
75.0	34	36	38	40	41	42	43	44	45	46
65.0	101	107	113	118	122	126	129	132	134	137
55.0	403 *	425 *	429 *	426 *	419 *	408 *	434 *	471 *	502 *	524 *
47.5	1211 *	1239 *	1339 *	1382 *	1389 *	1416 *	1459 *	1499 *	1537 *	1571 *
42.5	1263 *	1316 *	1363 *	1398 *	1431 *	1462 *	1494 *	1507 *	1510 *	1514 *
37.5	1357 *	1419 *	1454 *	1503 *	1541 *	1545 *	1565 *	1595 *	1604 *	1601 *
33.0	1553 *	1598 *	1682 *	1690 *	1722 *	1751 *	1734 *	1728 *	1741 *	1754 *
29.0	1728 *	1756 *	1767 *	1828 *	1834 *	1848 *	1872 *	1863 *	1838 *	1830 *
25.5	1835 *	1861 *	1911 *	1898 *	1934 *	1949 *	1930 *	1936 *	1919 *	1900 *
22.5	1911 *	1940 *	1975 *	1999 *	2024 *	2021 *	2046 *	2014 *	1982 *	1978 *
19.5	1939 *	1962 *	1984 *	1992 *	2001 *	2012 *	2003 *	1986 *	1967 *	1952 *
17.0	1920 *	1934 *	1945 *	1952 *	1955 *	1966 *	1960 *	1939 *	1921 *	1906 *
15.0	1897 *	1909 *	1917 *	1925 *	1930 *	1936 *	1924 *	1904 *	1885 *	1869 *
13.0	1877 *	1884 *	1896 *	1897 *	1900 *	1908 *	1893 *	1871 *	1851 *	1834 *
11.0	1858 *	1858 *	1872 *	1868 *	1877 *	1882 *	1866 *	1843 *	1822 *	1803 *
9.0	1836 *	1846 *	1851 *	1855 *	1860 *	1862 *	1844 *	1820 *	1799 *	1778 *
7.0	1824 *	1827 *	1840 *	1838 *	1844 *	1850 *	1827 *	1804 *	1782 *	1761 *
5.0	1818 *	1808 *	1836 *	1819 *	1835 *	1834 *	1816 *	1792 *	1772 *	1750 *
3.0	1809 *	1794 *	1822 *	1810 *	1825 *	1823 *	1807 *	1786 *	1766 *	1747 *
1.0	1806 *	1789 *	1812 *	1805 *	1813 *	1813 *	1797 *	1777 *	1760 *	1744 *
0.0	1806 *	1790 *	1811 *	1808 *	1814 *	1816 *	1800 *	1780 *	1762 *	1747 *
-1.0	1806 *	1789 *	1812 *	1805 *	1813 *	1813 *	1797 *	1777 *	1760 *	1744 *
-3.0	1809 *	1794 *	1822 *	1810 *	1825 *	1823 *	1807 *	1786 *	1766 *	1747 *
-5.0	1818 *	1808 *	1836 *	1819 *	1835 *	1834 *	1816 *	1792 *	1772 *	1750 *
-7.0	1824 *	1827 *	1840 *	1838 *	1844 *	1850 *	1827 *	1804 *	1782 *	1761 *
-9.0	1836 *	1846 *	1851 *	1855 *	1860 *	1862 *	1844 *	1820 *	1799 *	1778 *
-11.0	1858 *	1858 *	1872 *	1868 *	1877 *	1882 *	1866 *	1843 *	1822 *	1803 *
-13.0	1877 *	1884 *	1896 *	1897 *	1900 *	1908 *	1893 *	1871 *	1851 *	1834 *
-15.0	1897 *	1909 *	1917 *	1925 *	1930 *	1936 *	1924 *	1904 *	1885 *	1869 *
-17.0	1920 *	1934 *	1945 *	1952 *	1955 *	1966 *	1960 *	1939 *	1921 *	1906 *
-19.5	1939 *	1962 *	1984 *	1992 *	2001 *	2012 *	2003 *	1986 *	1967 *	1952 *
-22.5	1911 *	1940 *	1975 *	1999 *	2024 *	2021 *	2046 *	2014 *	1982 *	1978 *
-25.5	1835 *	1861 *	1911 *	1898 *	1934 *	1949 *	1930 *	1936 *	1919 *	1900 *
-29.0	1728 *	1756 *	1767 *	1828 *	1834 *	1848 *	1872 *	1863 *	1838 *	1830 *
-33.0	1553 *	1598 *	1682 *	1690 *	1722 *	1751 *	1734 *	1728 *	1741 *	1754 *
-37.5	1357 *	1419 *	1454 *	1503 *	1541 *	1545 *	1565 *	1595 *	1604 *	1601 *
-42.5	1263 *	1316 *	1363 *	1398 *	1431 *	1462 *	1494 *	1507 *	1510 *	1514 *
-47.5	1211 *	1239 *	1339 *	1382 *	1389 *	1416 *	1459 *	1499 *	1537 *	1571 *
-55.0	403 *	425 *	429 *	426 *	419 *	408 *	434 *	471 *	502 *	524 *
-65.0	101	107	113	118	122	126	129	132	134	137
-75.0	34	36	38	40	41	42	43	44	45	46
-85.0	56	47	39	31	26	24	23	22	20	19
-90.0	0	0	0	0	0	0	0	0	0	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	0	0	0	0
85.0	21	22	23	22	21	19	20	22	23	24
75.0	46	46	46	46	46	46	45	44	43	42
65.0	138	139	139	139	138	137	134	132	129	126

**IES FLOOD REPORT**  
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**CANDELA TABULATION - (Cont.)**

55.0	546 *	543 *	542 *	543 *	546 *	524 *	502 *	471 *	434 *	408 *
47.5	1602 *	1598 *	1596 *	1598 *	1602 *	1571 *	1537 *	1499 *	1459 *	1416 *
42.5	1514 *	1511 *	1510 *	1511 *	1514 *	1514 *	1510 *	1507 *	1494 *	1462 *
37.5	1587 *	1567 *	1555 *	1567 *	1587 *	1601 *	1604 *	1595 *	1565 *	1545 *
33.0	1760 *	1764 *	1764 *	1764 *	1760 *	1754 *	1741 *	1728 *	1734 *	1751 *
29.0	1821 *	1820 *	1820 *	1820 *	1821 *	1830 *	1838 *	1863 *	1872 *	1848 *
25.5	1883 *	1874 *	1873 *	1874 *	1883 *	1900 *	1919 *	1936 *	1930 *	1949 *
22.5	1983 *	1987 *	1986 *	1987 *	1983 *	1978 *	1982 *	2014 *	2046 *	2021 *
19.5	1941 *	1935 *	1935 *	1935 *	1941 *	1952 *	1967 *	1986 *	2003 *	2012 *
17.0	1893 *	1886 *	1887 *	1886 *	1893 *	1906 *	1921 *	1939 *	1960 *	1966 *
15.0	1857 *	1849 *	1851 *	1849 *	1857 *	1869 *	1885 *	1904 *	1924 *	1936 *
13.0	1822 *	1815 *	1817 *	1815 *	1822 *	1834 *	1851 *	1871 *	1893 *	1908 *
11.0	1792 *	1785 *	1787 *	1785 *	1792 *	1803 *	1822 *	1843 *	1866 *	1882 *
9.0	1765 *	1760 *	1761 *	1760 *	1765 *	1778 *	1799 *	1820 *	1844 *	1862 *
7.0	1744 *	1738 *	1740 *	1738 *	1744 *	1761 *	1782 *	1804 *	1827 *	1850 *
5.0	1730 *	1719 *	1723 *	1719 *	1730 *	1750 *	1772 *	1792 *	1816 *	1834 *
3.0	1726 *	1708 *	1710 *	1708 *	1726 *	1747 *	1766 *	1786 *	1807 *	1823 *
1.0	1732 *	1713 *	1710 *	1713 *	1732 *	1744 *	1760 *	1777 *	1797 *	1813 *
0.0	1735 *	1720 *	1712 *	1720 *	1735 *	1747 *	1762 *	1780 *	1800 *	1816 *
-1.0	1732 *	1713 *	1710 *	1713 *	1732 *	1744 *	1760 *	1777 *	1797 *	1813 *
-3.0	1726 *	1708 *	1710 *	1708 *	1726 *	1747 *	1766 *	1786 *	1807 *	1823 *
-5.0	1730 *	1719 *	1723 *	1719 *	1730 *	1750 *	1772 *	1792 *	1816 *	1834 *
-7.0	1744 *	1738 *	1740 *	1738 *	1744 *	1761 *	1782 *	1804 *	1827 *	1850 *
-9.0	1765 *	1760 *	1761 *	1760 *	1765 *	1778 *	1799 *	1820 *	1844 *	1862 *
-11.0	1792 *	1785 *	1787 *	1785 *	1792 *	1803 *	1822 *	1843 *	1866 *	1882 *
-13.0	1822 *	1815 *	1817 *	1815 *	1822 *	1834 *	1851 *	1871 *	1893 *	1908 *
-15.0	1857 *	1849 *	1851 *	1849 *	1857 *	1869 *	1885 *	1904 *	1924 *	1936 *
-17.0	1893 *	1886 *	1887 *	1886 *	1893 *	1906 *	1921 *	1939 *	1960 *	1966 *
-19.5	1941 *	1935 *	1935 *	1935 *	1941 *	1952 *	1967 *	1986 *	2003 *	2012 *
-22.5	1983 *	1987 *	1986 *	1987 *	1983 *	1978 *	1982 *	2014 *	2046 *	2021 *
-25.5	1883 *	1874 *	1873 *	1874 *	1883 *	1900 *	1919 *	1936 *	1930 *	1949 *
-29.0	1821 *	1820 *	1820 *	1820 *	1821 *	1830 *	1838 *	1863 *	1872 *	1848 *
-33.0	1760 *	1764 *	1764 *	1764 *	1760 *	1754 *	1741 *	1728 *	1734 *	1751 *
-37.5	1587 *	1567 *	1555 *	1567 *	1587 *	1601 *	1604 *	1595 *	1565 *	1545 *
-42.5	1514 *	1511 *	1510 *	1511 *	1514 *	1514 *	1510 *	1507 *	1494 *	1462 *
-47.5	1602 *	1598 *	1596 *	1598 *	1602 *	1571 *	1537 *	1499 *	1459 *	1416 *
-55.0	546 *	543 *	542 *	543 *	546 *	524 *	502 *	471 *	434 *	408 *
-65.0	138	139	139	139	138	137	134	132	129	126
-75.0	46	46	46	46	46	46	45	44	43	42
-85.0	21	22	23	22	21	19	20	22	23	24
-90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**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	0	0	0	0	0	0	0	0	0	0
85.0	26	31	39	47	56	69	84	91	91	87
75.0	41	40	38	36	34	31	27	24	20	17
65.0	122	118	113	107	101	91	81	67	52	42
55.0	419 *	426 *	429 *	425 *	403 *	360 *	349 *	311 *	220 *	175
47.5	1389 *	1382 *	1339 *	1239 *	1211 *	1093 *	979 *	935 *	757 *	618 *
42.5	1431 *	1398 *	1363 *	1316 *	1263 *	1200 *	1104 *	1021 *	916 *	796 *
37.5	1541 *	1503 *	1454 *	1419 *	1357 *	1311 *	1242 *	1162 *	1016 *	978 *
33.0	1722 *	1690 *	1682 *	1598 *	1553 *	1524 *	1428 *	1369 *	1230 *	1143 *
29.0	1834 *	1828 *	1767 *	1756 *	1728 *	1655 *	1629 *	1515 *	1394 *	1290 *
25.5	1934 *	1898 *	1911 *	1861 *	1835 *	1790 *	1725 *	1639 *	1524 *	1399 *

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**CANDELA TABULATION - (Cont.)**

22.5	2024 *	1999 *	1975 *	1940 *	1911 *	1892 *	1795 *	1741 *	1589 *	1465 *
19.5	2001 *	1992 *	1984 *	1962 *	1939 *	1914 *	1838 *	1785 *	1634 *	1507 *
17.0	1955 *	1952 *	1945 *	1934 *	1920 *	1895 *	1847 *	1785 *	1664 *	1532 *
15.0	1930 *	1925 *	1917 *	1909 *	1897 *	1881 *	1841 *	1777 *	1676 *	1537 *
13.0	1900 *	1897 *	1896 *	1884 *	1877 *	1860 *	1834 *	1763 *	1675 *	1539 *
11.0	1877 *	1868 *	1872 *	1858 *	1858 *	1849 *	1820 *	1755 *	1669 *	1540 *
9.0	1860 *	1855 *	1851 *	1846 *	1836 *	1845 *	1804 *	1753 *	1662 *	1538 *
7.0	1844 *	1838 *	1840 *	1827 *	1824 *	1831 *	1791 *	1752 *	1654 *	1536 *
5.0	1835 *	1819 *	1836 *	1808 *	1818 *	1810 *	1781 *	1750 *	1645 *	1531 *
3.0	1825 *	1810 *	1822 *	1794 *	1809 *	1792 *	1773 *	1749 *	1640 *	1524 *
1.0	1813 *	1805 *	1812 *	1789 *	1806 *	1787 *	1771 *	1748 *	1629 *	1513 *
0.0	1814 *	1808 *	1811 *	1790 *	1806 *	1785 *	1770 *	1746 *	1624 *	1508 *
-1.0	1813 *	1805 *	1812 *	1789 *	1806 *	1787 *	1771 *	1748 *	1629 *	1513 *
-3.0	1825 *	1810 *	1822 *	1794 *	1809 *	1792 *	1773 *	1749 *	1640 *	1524 *
-5.0	1835 *	1819 *	1836 *	1808 *	1818 *	1810 *	1781 *	1750 *	1645 *	1531 *
-7.0	1844 *	1838 *	1840 *	1827 *	1824 *	1831 *	1791 *	1752 *	1654 *	1536 *
-9.0	1860 *	1855 *	1851 *	1846 *	1836 *	1845 *	1804 *	1753 *	1662 *	1538 *
-11.0	1877 *	1868 *	1872 *	1858 *	1858 *	1849 *	1820 *	1755 *	1669 *	1540 *
-13.0	1900 *	1897 *	1896 *	1884 *	1877 *	1860 *	1834 *	1763 *	1675 *	1539 *
-15.0	1930 *	1925 *	1917 *	1909 *	1897 *	1881 *	1841 *	1777 *	1676 *	1537 *
-17.0	1955 *	1952 *	1945 *	1934 *	1920 *	1895 *	1847 *	1785 *	1664 *	1532 *
-19.5	2001 *	1992 *	1984 *	1962 *	1939 *	1914 *	1838 *	1785 *	1634 *	1507 *
-22.5	2024 *	1999 *	1975 *	1940 *	1911 *	1892 *	1795 *	1741 *	1589 *	1465 *
-25.5	1934 *	1898 *	1911 *	1861 *	1835 *	1790 *	1725 *	1639 *	1524 *	1399 *
-29.0	1834 *	1828 *	1767 *	1756 *	1728 *	1655 *	1629 *	1515 *	1394 *	1290 *
-33.0	1722 *	1690 *	1682 *	1598 *	1553 *	1524 *	1428 *	1369 *	1230 *	1143 *
-37.5	1541 *	1503 *	1454 *	1419 *	1357 *	1311 *	1242 *	1162 *	1016 *	978 *
-42.5	1431 *	1398 *	1363 *	1316 *	1263 *	1200 *	1104 *	1021 *	916 *	796 *
-47.5	1389 *	1382 *	1339 *	1239 *	1211 *	1093 *	979 *	935 *	757 *	618 *
-55.0	419 *	426 *	429 *	425 *	403 *	360 *	349 *	311 *	220 *	175
-65.0	122	118	113	107	101	91	81	67	52	42
-75.0	41	40	38	36	34	31	27	24	20	17
-85.0	26	31	39	47	56	69	84	91	91	87
-90.0	0	0	0	0	0	0	0	0	0	0

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	0	0	0	0	0
85.0	83	25	2	0	0
75.0	15	11	6	1	0
65.0	31	20	10	2	0
55.0	65	40	18	3	0
47.5	162	60	25	4	0
42.5	365 *	75	30	4	0
37.5	558 *	92	34	5	0
33.0	759 *	104	39	5	0
29.0	942 *	111	43	6	0
25.5	1088 *	118	46	6	0
22.5	1208 *	151	49	6	0
19.5	1260 *	181	52	6	0
17.0	1286 *	198	53	7	0
15.0	1303 *	208 *	54	7	0
13.0	1317 *	214 *	55	7	0
11.0	1328 *	217 *	56	7	0
9.0	1336 *	222 *	57	7	0

**IES FLOOD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>7.0</b>	1341 *	226 *	57	7	0
<b>5.0</b>	1343 *	229 *	58	7	0
<b>3.0</b>	1345 *	231 *	58	7	0
<b>1.0</b>	1337 *	229 *	58	7	0
<b>0.0</b>	1333 *	228 *	58	7	0
<b>-1.0</b>	1337 *	229 *	58	7	0
<b>-3.0</b>	1345 *	231 *	58	7	0
<b>-5.0</b>	1343 *	229 *	58	7	0
<b>-7.0</b>	1341 *	226 *	57	7	0
<b>-9.0</b>	1336 *	222 *	57	7	0
<b>-11.0</b>	1328 *	217 *	56	7	0
<b>-13.0</b>	1317 *	214 *	55	7	0
<b>-15.0</b>	1303 *	208 *	54	7	0
<b>-17.0</b>	1286 *	198	53	7	0
<b>-19.5</b>	1260 *	181	52	6	0
<b>-22.5</b>	1208 *	151	49	6	0
<b>-25.5</b>	1088 *	118	46	6	0
<b>-29.0</b>	942 *	111	43	6	0
<b>-33.0</b>	759 *	104	39	5	0
<b>-37.5</b>	558 *	92	34	5	0
<b>-42.5</b>	365 *	75	30	4	0
<b>-47.5</b>	162	60	25	4	0
<b>-55.0</b>	65	40	18	3	0
<b>-65.0</b>	31	20	10	2	0
<b>-75.0</b>	15	11	6	1	0
<b>-85.0</b>	83	25	2	0	0
<b>-90.0</b>	0	0	0	0	0

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**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 2538.38

Total Field Lumens (one side of beam only) = 2469.94

\* 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	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.06
75	0.10	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.27
65	0.28	0.56	0.56	0.55	0.54	0.52	0.51	0.49	0.47	0.56
55	1.04 *	2.08 *	2.04 *	1.96 *	1.87 *	1.75 *	1.63 *	1.59 *	1.59 *	1.96 *
47.5	2.44 *	4.90 *	4.83 *	4.70 *	4.53 *	4.35 *	4.15 *	4.03 *	3.97 *	4.85 *
42.5	2.37 *	4.74 *	4.71 *	4.64 *	4.56 *	4.47 *	4.34 *	4.21 *	4.10 *	4.96 *
37.5	2.34 *	4.70 *	4.72 *	4.72 *	4.69 *	4.62 *	4.52 *	4.42 *	4.30 *	5.17 *
33	2.28 *	4.57 *	4.58 *	4.57 *	4.53 *	4.47 *	4.42 *	4.36 *	4.25 *	5.15 *
29	2.18 *	4.36 *	4.35 *	4.34 *	4.33 *	4.32 *	4.29 *	4.23 *	4.14 *	5.04 *
25.5	1.97 *	3.94 *	3.95 *	3.97 *	3.99 *	3.99 *	3.96 *	3.91 *	3.84 *	4.69 *
22.5	1.76 *	3.53 *	3.53 *	3.53 *	3.55 *	3.57 *	3.55 *	3.51 *	3.45 *	4.22 *
19.5	1.79 *	3.58 *	3.58 *	3.58 *	3.60 *	3.62 *	3.61 *	3.57 *	3.52 *	4.31 *
17	1.46 *	2.91 *	2.92 *	2.93 *	2.95 *	2.96 *	2.96 *	2.93 *	2.89 *	3.56 *
15	1.14 *	2.28 *	2.29 *	2.30 *	2.31 *	2.32 *	2.32 *	2.30 *	2.27 *	2.80 *
13	1.12 *	2.24 *	2.24 *	2.25 *	2.27 *	2.28 *	2.28 *	2.27 *	2.24 *	2.76 *
11	1.10 *	2.20 *	2.20 *	2.21 *	2.23 *	2.24 *	2.25 *	2.24 *	2.21 *	2.72 *
9	1.08 *	2.16 *	2.17 *	2.18 *	2.20 *	2.21 *	2.22 *	2.21 *	2.18 *	2.69 *
7	1.07 *	2.13 *	2.14 *	2.16 *	2.17 *	2.19 *	2.20 *	2.19 *	2.17 *	2.67 *
5	1.05 *	2.11 *	2.12 *	2.14 *	2.16 *	2.17 *	2.18 *	2.18 *	2.15 *	2.65 *
3	1.04 *	2.10 *	2.11 *	2.13 *	2.15 *	2.16 *	2.17 *	2.16 *	2.13 *	2.63 *
1	1.04 *	2.09 *	2.11 *	2.13 *	2.14 *	2.15 *	2.16 *	2.15 *	2.12 *	2.62 *
0	0.52 *	1.05 *	1.06 *	1.06 *	1.07 *	1.07 *	1.08 *	1.07 *	1.06 *	1.31 *
-1	0.52 *	1.05 *	1.06 *	1.06 *	1.07 *	1.07 *	1.08 *	1.07 *	1.06 *	1.31 *
	1.04 *	2.09 *	2.11 *	2.13 *	2.14 *	2.15 *	2.16 *	2.15 *	2.12 *	2.62 *



**IES FLOOD REPORT**  
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**LUMENS TABULATION - (Cont.)**

<b>-3</b>	1.04 *	2.10 *	2.11 *	2.13 *	2.15 *	2.16 *	2.17 *	2.16 *	2.13 *	2.63 *
<b>-5</b>	1.05 *	2.11 *	2.12 *	2.14 *	2.16 *	2.17 *	2.18 *	2.18 *	2.15 *	2.65 *
<b>-7</b>	1.07 *	2.13 *	2.14 *	2.16 *	2.17 *	2.19 *	2.20 *	2.19 *	2.17 *	2.67 *
<b>-9</b>	1.08 *	2.16 *	2.17 *	2.18 *	2.20 *	2.21 *	2.22 *	2.21 *	2.18 *	2.69 *
<b>-11</b>	1.10 *	2.20 *	2.20 *	2.21 *	2.23 *	2.24 *	2.25 *	2.24 *	2.21 *	2.72 *
<b>-13</b>	1.12 *	2.24 *	2.24 *	2.25 *	2.27 *	2.28 *	2.28 *	2.27 *	2.24 *	2.76 *
<b>-15</b>	1.14 *	2.28 *	2.29 *	2.30 *	2.31 *	2.32 *	2.32 *	2.30 *	2.27 *	2.80 *
<b>-17</b>	1.46 *	2.91 *	2.92 *	2.93 *	2.95 *	2.96 *	2.96 *	2.93 *	2.89 *	3.56 *
<b>-19.5</b>	1.79 *	3.58 *	3.58 *	3.58 *	3.60 *	3.62 *	3.61 *	3.57 *	3.52 *	4.31 *
<b>-22.5</b>	1.76 *	3.53 *	3.53 *	3.53 *	3.55 *	3.57 *	3.55 *	3.51 *	3.45 *	4.22 *
<b>-25.5</b>	1.97 *	3.94 *	3.95 *	3.97 *	3.99 *	3.99 *	3.96 *	3.91 *	3.84 *	4.69 *
<b>-29</b>	2.18 *	4.36 *	4.35 *	4.34 *	4.33 *	4.32 *	4.29 *	4.23 *	4.14 *	5.04 *
<b>-33</b>	2.28 *	4.57 *	4.58 *	4.57 *	4.53 *	4.47 *	4.42 *	4.36 *	4.25 *	5.15 *
<b>-37.5</b>	2.34 *	4.70 *	4.72 *	4.72 *	4.69 *	4.62 *	4.52 *	4.42 *	4.30 *	5.17 *
<b>-42.5</b>	2.37 *	4.74 *	4.71 *	4.64 *	4.56 *	4.47 *	4.34 *	4.21 *	4.10 *	4.96 *
<b>-47.5</b>	2.44 *	4.90 *	4.83 *	4.70 *	4.53 *	4.35 *	4.15 *	4.03 *	3.97 *	4.85 *
<b>-55</b>	1.04 *	2.08 *	2.04 *	1.96 *	1.87 *	1.75 *	1.63 *	1.59 *	1.59 *	1.96 *
<b>-65</b>	0.28	0.56	0.56	0.55	0.54	0.52	0.51	0.49	0.47	0.56
<b>-75</b>	0.10	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.27
<b>-85</b>	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.06
<b>-90</b>										
<b>Total</b>	58.39	116.94	116.93	116.57	116.07	115.30	114.08	112.51	110.61	135.30

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>19.5</b>	<b>22.5</b>	<b>25.5</b>	<b>29</b>	<b>33</b>	<b>37.5</b>	<b>42.5</b>	<b>47.5</b>	<b>55</b>	<b>65</b>
<b>90</b>	0.09	0.11	0.15	0.20	0.24	0.27	0.24	0.30	0.21	0.04
<b>85</b>	0.34	0.36	0.45	0.55	0.63	0.66	0.58	0.72	0.51	0.11
<b>75</b>	0.63	0.58	0.61	0.60	0.56	0.48	0.35	0.38	0.29	0.12
<b>65</b>	2.29 *	2.16 *	2.26 *	2.30 *	2.26	1.90	1.32	1.12	0.59	0.23
<b>55</b>	5.49 *	5.13 *	5.45 *	5.44 *	5.40 *	4.86 *	3.57 *	2.73 *	0.93	0.28

**IES FLOOD REPORT**  
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**LUMENS TABULATION - (Cont.)**

<b>47.5</b>										
	5.61 *	5.25 *	5.65 *	5.71 *	5.65 *	5.29 *	4.15 *	3.47 *	1.26	0.25
<b>42.5</b>	5.92 *	5.59 *	6.08 *	6.34 *	6.34 *	6.00 *	4.99 *	4.82 *	2.07 *	0.30
<b>37.5</b>	5.90 *	5.57 *	6.13 *	6.47 *	6.55 *	6.27 *	5.29 *	5.53 *	2.59 *	0.31
<b>33</b>	5.80 *	5.54 *	6.12 *	6.51 *	6.65 *	6.42 *	5.44 *	5.91 *	2.91 *	0.31
<b>29</b>	5.45 *	5.24 *	5.81 *	6.21 *	6.37 *	6.20 *	5.28 *	5.90 *	3.01 *	0.29
<b>25.5</b>	4.92 *	4.72 *	5.28 *	5.64 *	5.79 *	5.68 *	4.83 *	5.53 *	2.93 *	0.28
<b>22.5</b>	5.03 *	4.85 *	5.44 *	5.83 *	6.01 *	5.90 *	5.00 *	5.83 *	3.19 *	0.34
<b>19.5</b>	4.17 *	4.05 *	4.54 *	4.89 *	5.07 *	5.01 *	4.26 *	4.99 *	2.78 *	0.31
<b>17</b>	3.29 *	3.20 *	3.60 *	3.90 *	4.06 *	4.03 *	3.45 *	4.04 *	2.28 *	0.27
<b>15</b>	3.24 *	3.16 *	3.56 *	3.87 *	4.04 *	4.02 *	3.46 *	4.07 *	2.31 *	0.28
<b>13</b>	3.20 *	3.12 *	3.53 *	3.84 *	4.01 *	4.00 *	3.46 *	4.09 *	2.34 *	0.28
<b>11</b>	3.17 *	3.09 *	3.50 *	3.82 *	3.99 *	3.99 *	3.45 *	4.10 *	2.36 *	0.29
<b>9</b>	3.14 *	3.06 *	3.48 *	3.80 *	3.97 *	3.98 *	3.44 *	4.11 *	2.38 *	0.29
<b>7</b>	3.12 *	3.04 *	3.45 *	3.77 *	3.96 *	3.97 *	3.43 *	4.11 *	2.39 *	0.30
<b>5</b>	3.10 *	3.02 *	3.43 *	3.74 *	3.95 *	3.96 *	3.41 *	4.10 *	2.39 *	0.30
<b>3</b>	3.08 *	3.00 *	3.41 *	3.72 *	3.94 *	3.95 *	3.39 *	4.09 *	2.39 *	0.30
<b>1</b>	1.54 *	1.50 *	1.70 *	1.86 *	1.97 *	1.97 *	1.69 *	2.03 *	1.19 *	0.15
<b>0</b>	1.54 *	1.50 *	1.70 *	1.86 *	1.97 *	1.97 *	1.69 *	2.03 *	1.19 *	0.15
<b>-1</b>	3.08 *	3.00 *	3.41 *	3.72 *	3.94 *	3.95 *	3.39 *	4.09 *	2.39 *	0.30
<b>-3</b>	3.10 *	3.02 *	3.43 *	3.74 *	3.95 *	3.96 *	3.41 *	4.10 *	2.39 *	0.30
<b>-5</b>	3.12 *	3.04 *	3.45 *	3.77 *	3.96 *	3.97 *	3.43 *	4.11 *	2.39 *	0.30
<b>-7</b>	3.14 *	3.06 *	3.48 *	3.80 *	3.97 *	3.98 *	3.44 *	4.11 *	2.38 *	0.29
<b>-9</b>	3.17 *	3.09 *	3.50 *	3.82 *	3.99 *	3.99 *	3.45 *	4.10 *	2.36 *	0.29
<b>-11</b>	3.20 *	3.12 *	3.53 *	3.84 *	4.01 *	4.00 *	3.46 *	4.09 *	2.34 *	0.28
<b>-13</b>	3.24 *	3.16 *	3.56 *	3.87 *	4.04 *	4.02 *	3.46 *	4.07 *	2.31 *	0.28
<b>-15</b>	3.29 *	3.20 *	3.60 *	3.90 *	4.06 *	4.03 *	3.45 *	4.04 *	2.28 *	0.27
<b>-17</b>	4.17 *	4.05 *	4.54 *	4.89 *	5.07 *	5.01 *	4.26 *	4.99 *	2.78 *	0.31
<b>-19.5</b>	5.03 *	4.85 *	5.44 *	5.83 *	6.01 *	5.90 *	5.00 *	5.83 *	3.19 *	0.34

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LUMENS TABULATION - (Cont.)

<b>-22.5</b>	4.92 *	4.72 *	5.28 *	5.64 *	5.79 *	5.68 *	4.83 *	5.53 *	2.93 *	0.28
<b>-25.5</b>	5.45 *	5.24 *	5.81 *	6.21 *	6.37 *	6.20 *	5.28 *	5.90 *	3.01 *	0.29
<b>-29</b>	5.80 *	5.54 *	6.12 *	6.51 *	6.65 *	6.42 *	5.44 *	5.91 *	2.91 *	0.31
<b>-33</b>	5.90 *	5.57 *	6.13 *	6.47 *	6.55 *	6.27 *	5.29 *	5.53 *	2.59 *	0.31
<b>-37.5</b>	5.92 *	5.59 *	6.08 *	6.34 *	6.34 *	6.00 *	4.99 *	4.82 *	2.07 *	0.30
<b>-42.5</b>	5.61 *	5.25 *	5.65 *	5.71 *	5.65 *	5.29 *	4.15 *	3.47 *	1.26	0.25
<b>-47.5</b>	5.49 *	5.13 *	5.45 *	5.44 *	5.40 *	4.86 *	3.57 *	2.73 *	0.93	0.28
<b>-55</b>	2.29 *	2.16 *	2.26 *	2.30 *	2.26	1.90	1.32	1.12	0.59	0.23
<b>-65</b>	0.63	0.58	0.61	0.60	0.56	0.48	0.35	0.38	0.29	0.12
<b>-75</b>	0.34	0.36	0.45	0.55	0.63	0.66	0.58	0.72	0.51	0.11
<b>-85</b>	0.09	0.11	0.15	0.20	0.24	0.27	0.24	0.30	0.21	0.04
<b>-90</b>										
<b>Total</b>	157.02	150.67	167.23	178.01	182.82	177.55	148.98	163.93	86.61	11.25

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>				
	0.00	0.00		2.19
<b>85</b>				
	0.01	0.00		6.90
<b>75</b>				
	0.03	0.00		9.65
<b>65</b>				
	0.04	0.00		33.99
<b>55</b>				
	0.05	0.00		82.09
<b>47.5</b>				
	0.04	0.00		85.42
<b>42.5</b>				
	0.05	0.00		92.68
<b>37.5</b>				
	0.05	0.00		93.83
<b>33</b>				
	0.05	0.00		93.26
<b>29</b>				
	0.05	0.00		88.02
<b>25.5</b>				
	0.04	0.00		79.86
<b>22.5</b>				
	0.04	0.00		82.24
<b>19.5</b>				
	0.04	0.00		68.58
<b>17</b>				
	0.03	0.00		54.45

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-VWF-40-80-FGS.IES**

**LUMENS TABULATION - (Cont.)**

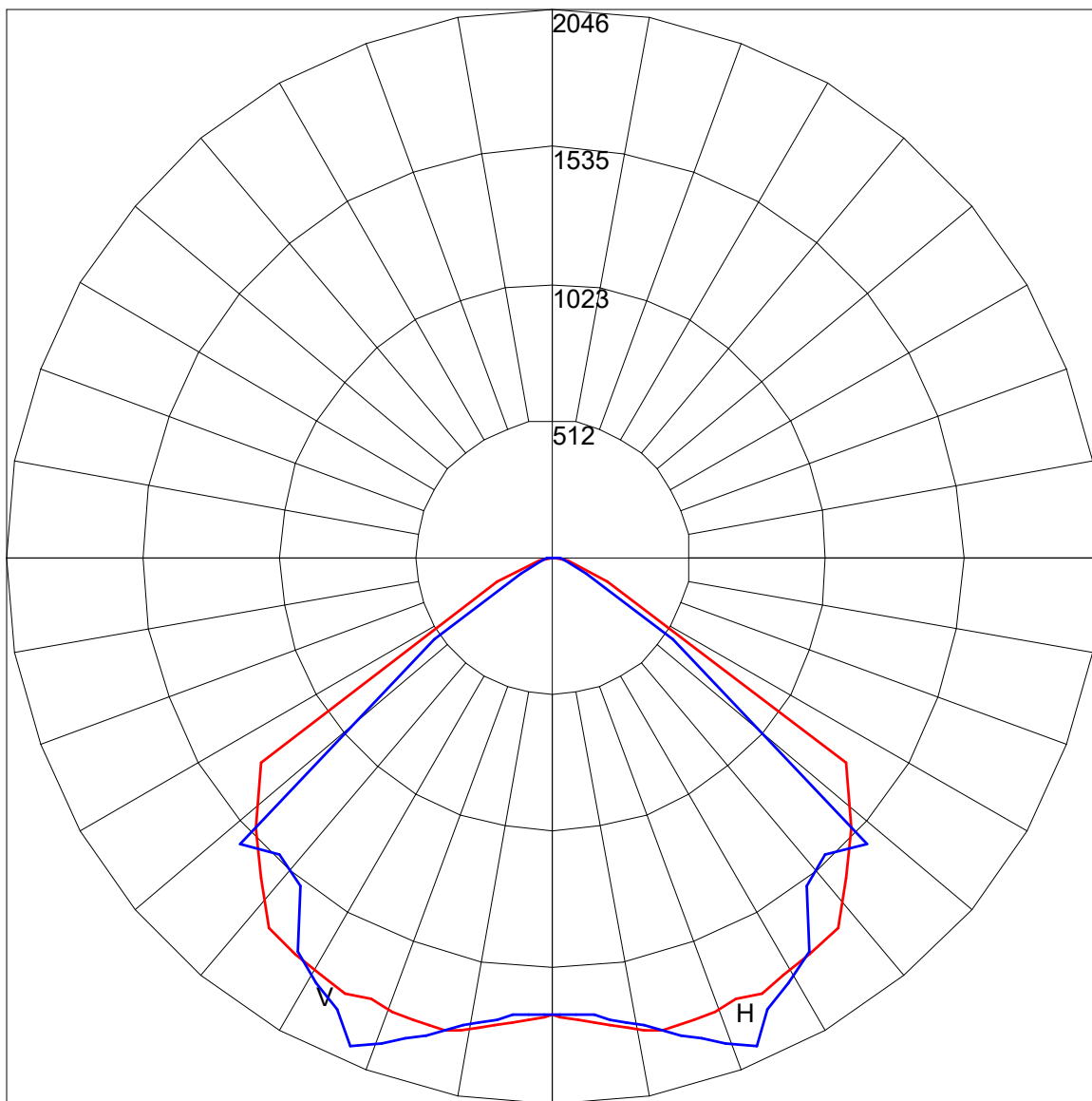
<b>15</b>			
	0.03	0.00	53.99
<b>13</b>			
	0.03	0.00	53.51
<b>11</b>			
	0.03	0.00	53.10
<b>9</b>			
	0.03	0.00	52.76
<b>7</b>			
	0.03	0.00	52.47
<b>5</b>			
	0.03	0.00	52.21
<b>3</b>			
	0.03	0.00	52.01
<b>1</b>			
	0.02	0.00	25.96
<b>0</b>			
	0.02	0.00	25.96
<b>-1</b>			
	0.03	0.00	52.01
<b>-3</b>			
	0.03	0.00	52.21
<b>-5</b>			
	0.03	0.00	52.47
<b>-7</b>			
	0.03	0.00	52.76
<b>-9</b>			
	0.03	0.00	53.10
<b>-11</b>			
	0.03	0.00	53.51
<b>-13</b>			
	0.03	0.00	53.99
<b>-15</b>			
	0.03	0.00	54.45
<b>-17</b>			
	0.04	0.00	68.58
<b>-19.5</b>			
	0.04	0.00	82.24
<b>-22.5</b>			
	0.04	0.00	79.86
<b>-25.5</b>			
	0.05	0.00	88.02
<b>-29</b>			
	0.05	0.00	93.26
<b>-33</b>			
	0.05	0.00	93.83
<b>-37.5</b>			
	0.05	0.00	92.68
<b>-42.5</b>			
	0.04	0.00	85.42
<b>-47.5</b>			
	0.05	0.00	82.09
<b>-55</b>			
	0.04	0.00	33.99
<b>-65</b>			
	0.03	0.00	9.65

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-VWF-40-80-FGS.IES**

**LUMENS TABULATION - (Cont.)**

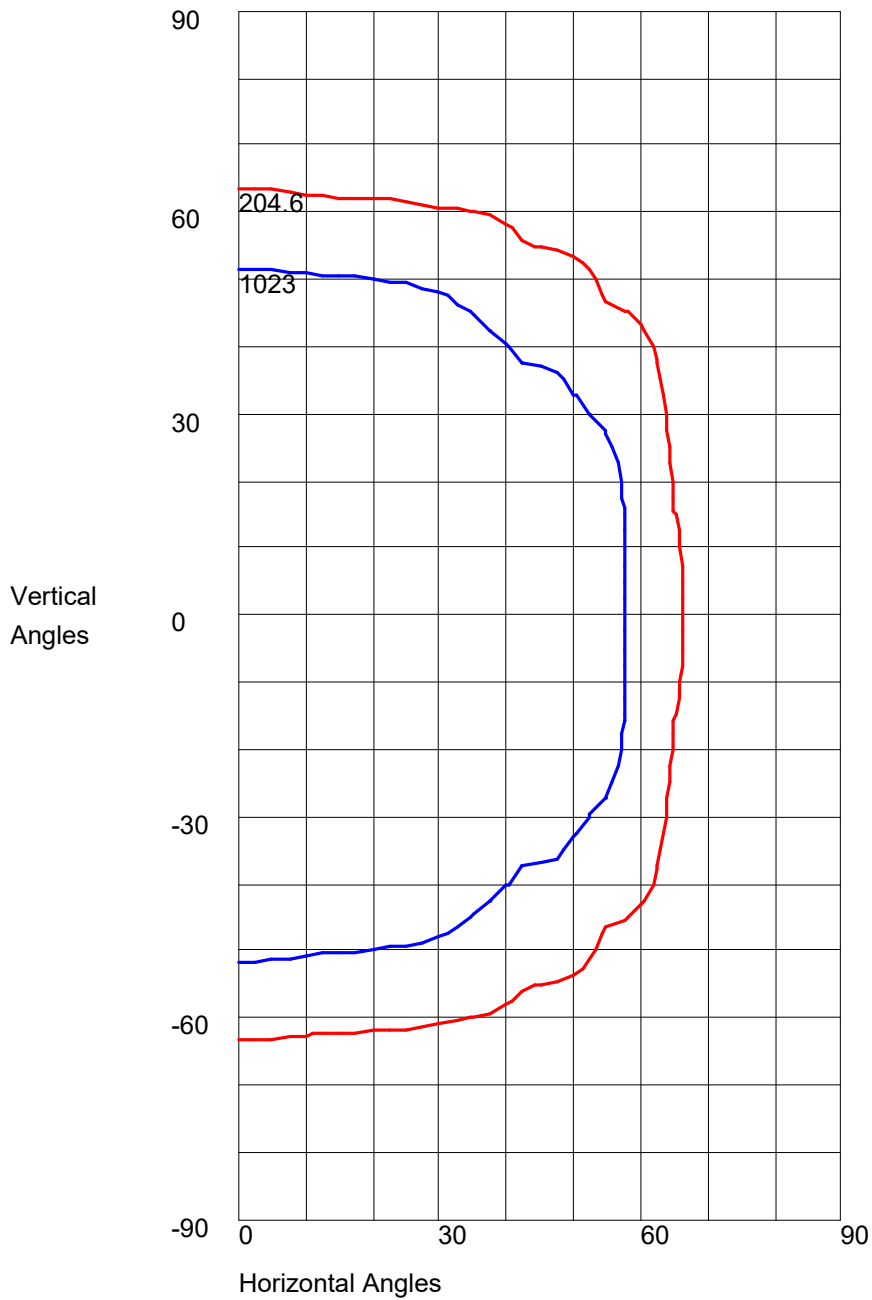
<b>-75</b>	0.01	0.00	6.90
<b>-85</b>	0.00	0.00	2.19
<b>-90</b>			
<b>Total</b>	1.55	0.02	2538.38

AXIAL CANDELA DISPLAY



Maximum Candela = 2046 Located At Horizontal Angle = -11, Vertical Angle = -22.5  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 2046 Located At Horizontal Angle = -11, Vertical Angle = -22.5  
50% Maximum Candela = 1023  
10% Maximum Candela = 204.6