

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P95422

Luminaire Tested: **VFS-K-B40-5-LED-E1-VAT**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P95422
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22788)
Test Lab: INNOVATION CENTER
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VFS-K-B40-5-LED-E1-VAT
Description: ARCHITECTURAL FLOOD LUMINAIRE
VERTICAL ASYMMETRIC RECTANGULAR DISTRIBUTION
WITH 40 LED'S, 525mA DRIVE CURRENT
Light Source: -
Ballast/Driver: -

Summary

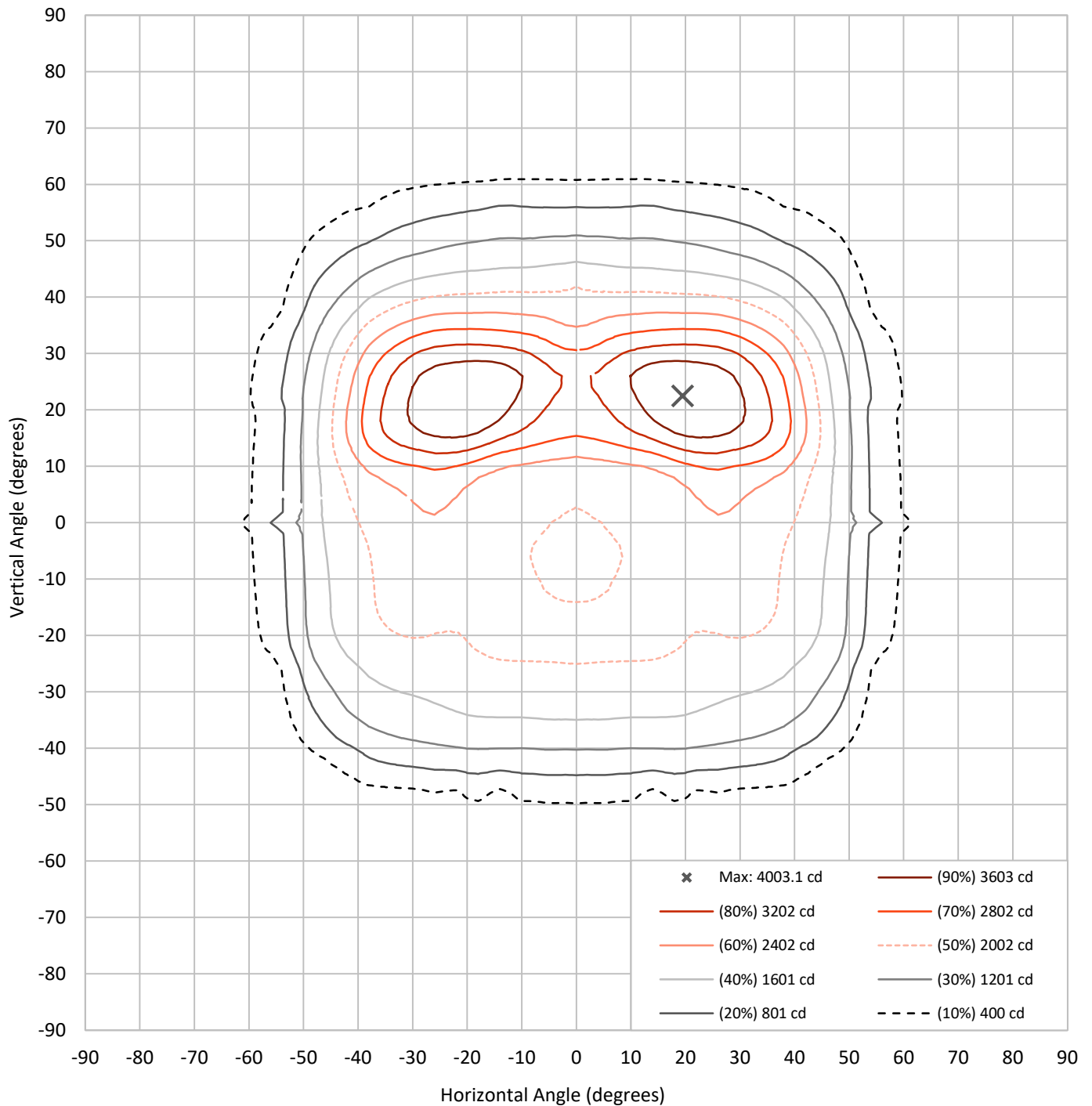
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	5836.6 lumens	Max Intensity:	4003.1 candela
Efficiency:	N/A	Max Intensity Angle:	19.5°H x 22.5°V
Efficacy:	88.2 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	88.4°H x 62.2°V	Field Angle (10%):	119.7°H x 109.7°V
Beam Lumens:	3536.4 lumens	Field Lumens:	5607.4 lumens
Beam Efficiency:	60.6%	Field Efficiency:	96.1%
Input Watts (W):	66.2		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



REPORT NUMBER: P95422

CATALOG NUMBER: VFS-K-B40-5-LED-E1-VAT

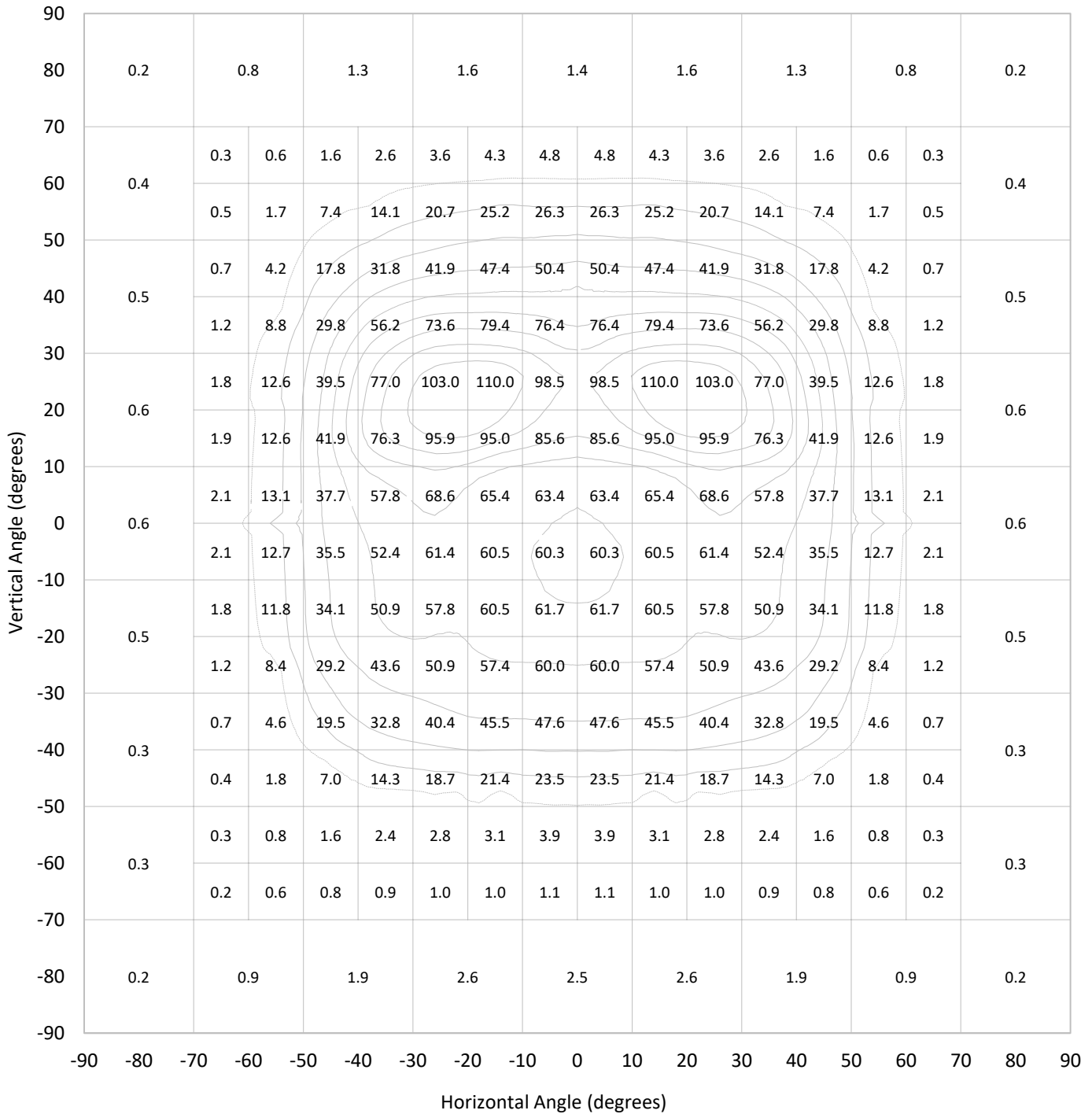
Iso-Candela Plot





REPORT NUMBER: P95422
 CATALOG NUMBER: VFS-K-B40-5-LED-E1-VAT

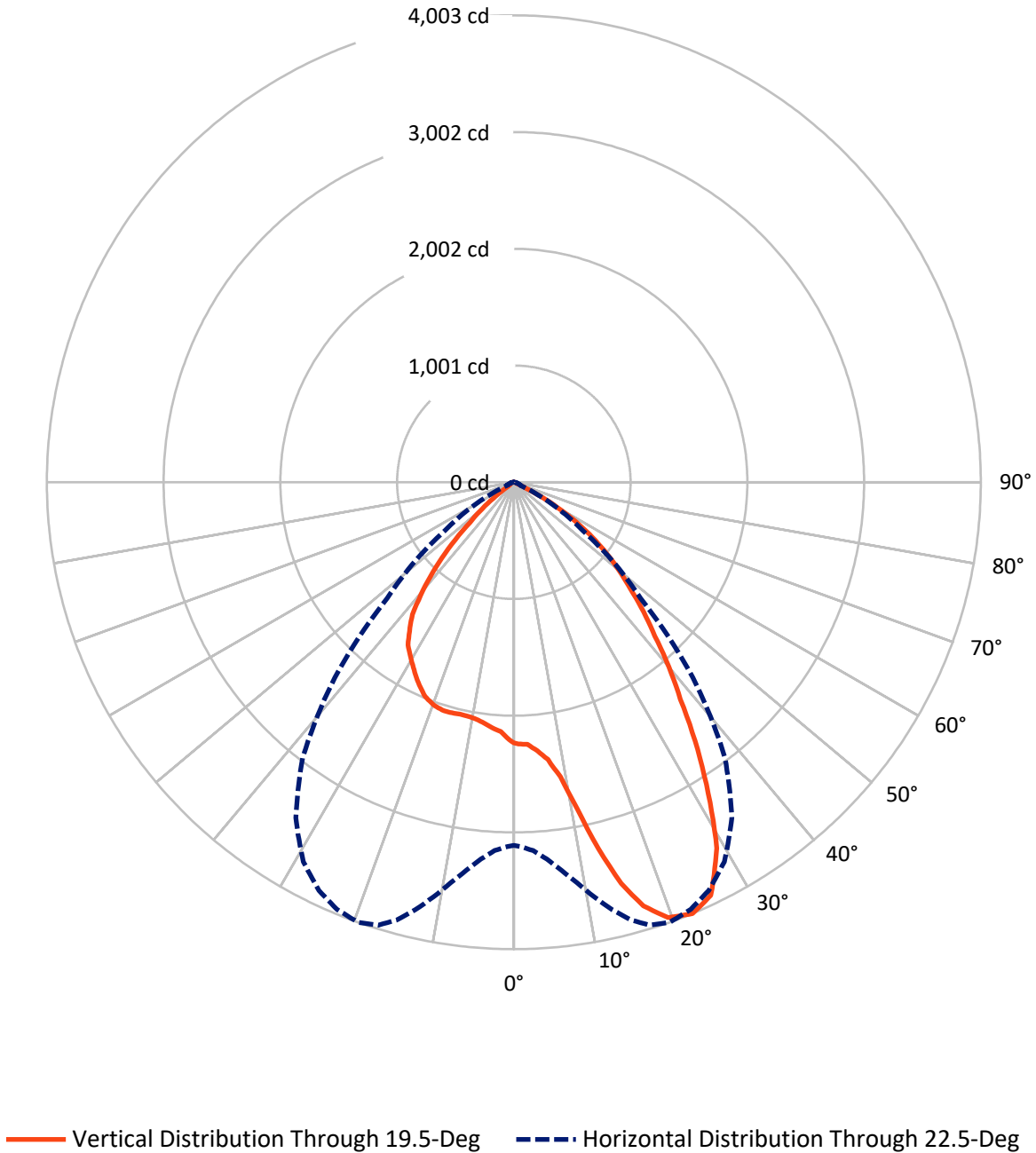
Lumen Table



REPORT NUMBER: P95422

CATALOG NUMBER: VFS-K-B40-5-LED-E1-VAT

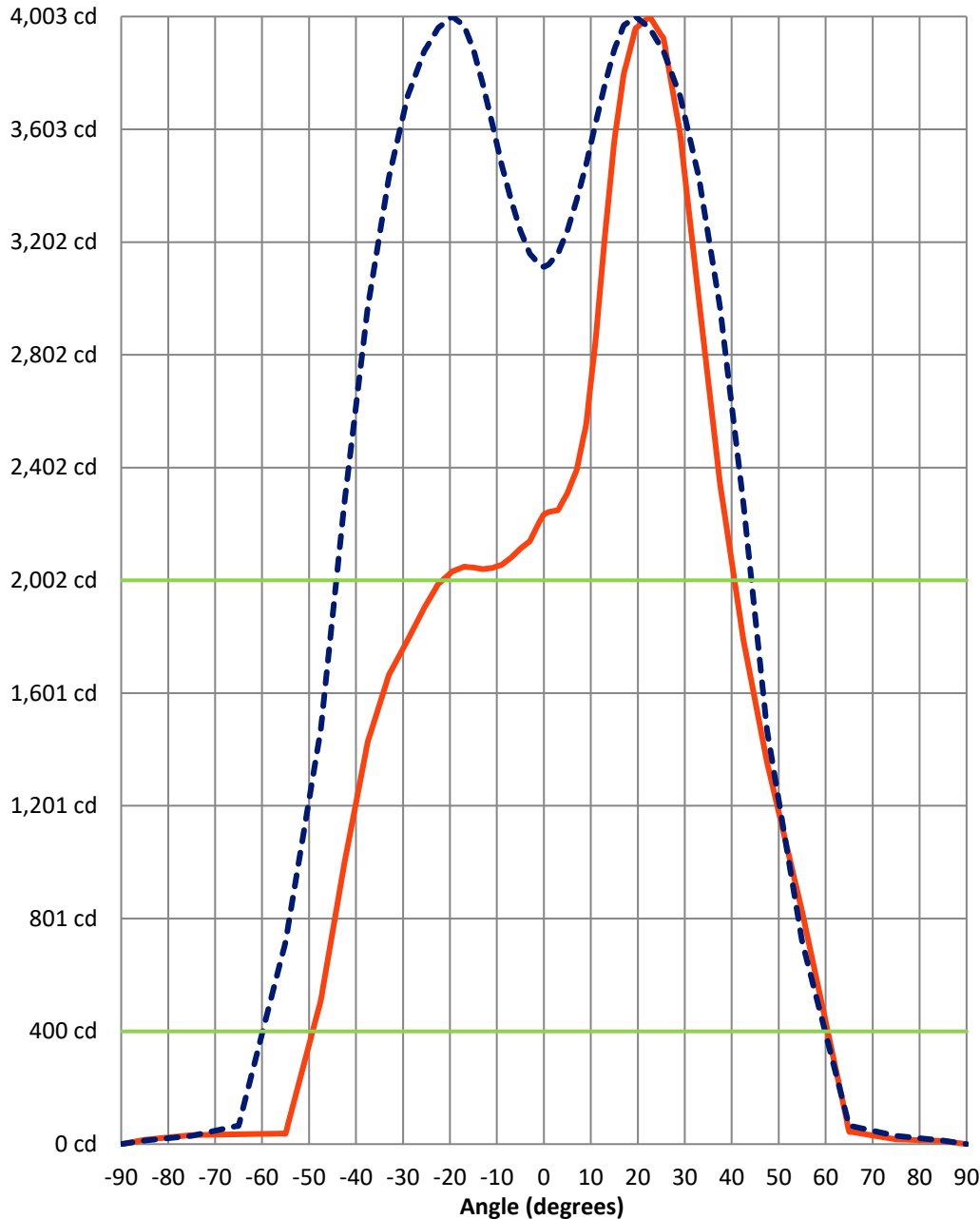
Luminous Intensity Polar Plot



REPORT NUMBER: P95422

CATALOG NUMBER: VFS-K-B40-5-LED-E1-VAT

Luminous Intensity Plot



Beam:
 H Angle: 88.4°
 V Angle: 62.2°
 Lumens: 3536.4
 Efficiency: 60.6%

Field:
 H Angle: 119.7°
 V Angle: 109.7°
 Lumens: 5607.4
 Efficiency: 96.1%

Spill:
 Lumens: 229.2
 Efficiency: 3.9%

— Vertical Distribution through 19.5-Deg
 - - - Horizontal Distribution through 22.5-Deg



REPORT NUMBER: P95422

CATALOG NUMBER: VFS-K-B40-5-LED-E1-VAT

FIELD
BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	2.8	7.0	9.8	11.2	11.2	11.2	11.2	11.2	11.2
75°	11.2	12.6	16.8	15.4	9.8	8.4	11.2	12.6	14.0	15.4	16.8
65°	50.3	50.3	64.3	71.3	71.3	67.1	55.9	51.7	41.9	37.7	44.7
55°	881.6	876.1	871.9	874.7	873.3	878.9	901.2	915.2	894.2	849.5	824.4
47.5°	1476.9	1460.1	1450.3	1454.5	1422.4	1398.6	1394.4	1394.4	1387.4	1374.9	1356.7
42.5°	1974.3	1960.3	1910.0	1876.5	1854.1	1852.7	1848.5	1847.1	1826.2	1792.6	1788.4
37.5°	2167.1	2174.1	2220.2	2280.3	2305.4	2318.0	2333.4	2354.3	2365.5	2364.1	2345.9
33°	2549.9	2549.9	2600.2	2709.2	2801.4	2860.1	2899.2	2931.4	2957.9	2980.3	2998.4
29°	2971.9	2971.9	3019.4	3120.0	3238.8	3357.5	3452.5	3523.8	3572.7	3593.7	3588.1
25.5°	3180.1	3185.7	3233.2	3328.2	3445.6	3578.3	3713.8	3817.2	3895.5	3930.4	3923.4
22.5°	3114.4	3122.8	3161.9	3243.0	3353.3	3477.7	3623.0	3762.7	3885.7	3970.9	4003.1
19.5°	3036.2	3043.2	3078.1	3143.8	3236.0	3343.6	3474.9	3621.6	3761.3	3880.1	3959.7
17°	2938.4	2946.8	2978.9	3036.2	3118.6	3219.2	3324.0	3438.6	3567.1	3690.1	3797.7
15°	2783.3	2794.5	2832.2	2876.9	2937.0	3018.0	3097.7	3187.1	3303.0	3430.2	3561.5
13°	2549.9	2562.5	2596.0	2628.2	2674.3	2746.9	2804.2	2867.1	2962.1	3083.7	3224.8
11°	2312.4	2326.4	2354.3	2376.7	2406.0	2454.9	2487.1	2531.8	2605.8	2710.6	2851.7
9°	2137.8	2144.7	2165.7	2183.9	2206.2	2248.1	2267.7	2297.0	2350.1	2427.0	2555.5
7°	2060.9	2067.9	2090.3	2108.4	2123.8	2160.1	2174.1	2192.2	2237.0	2288.7	2394.8
5°	2024.6	2028.8	2058.1	2069.3	2086.1	2121.0	2132.2	2144.7	2176.9	2216.0	2311.0
3°	2002.2	2006.4	2027.4	2042.7	2063.7	2090.3	2095.8	2109.8	2130.8	2162.9	2250.9
1°	1984.1	1985.5	1998.0	2014.8	2033.0	2052.5	2062.3	2076.3	2094.4	2143.3	2243.9
0°	1978.5	1979.9	1989.7	2003.6	2019.0	2035.8	2046.9	2060.9	2079.1	2133.6	2235.6
-1°	1974.3	1975.7	1984.1	1998.0	2010.6	2023.2	2034.4	2049.7	2066.5	2118.2	2207.6
-3°	1971.5	1971.5	1978.5	1988.3	2000.8	2009.2	2019.0	2033.0	2048.3	2079.1	2140.6
-5°	1967.3	1967.3	1972.9	1982.7	1993.8	2003.6	2014.8	2030.2	2046.9	2067.9	2114.0
-7°	1964.5	1964.5	1972.9	1981.3	1995.2	2005.0	2016.2	2031.6	2044.1	2053.9	2081.9
-9°	1971.5	1972.9	1979.9	1988.3	2000.8	2009.2	2019.0	2030.2	2040.0	2044.1	2056.7
-11°	1979.9	1979.9	1986.9	1996.6	2005.0	2013.4	2021.8	2034.4	2042.7	2042.7	2045.5
-13°	1986.9	1988.3	1992.4	1998.0	2009.2	2023.2	2034.4	2046.9	2052.5	2045.5	2041.3
-15°	2013.4	2012.0	2014.8	2020.4	2033.0	2049.7	2058.1	2063.7	2063.7	2055.3	2046.9
-17°	2059.5	2058.1	2060.9	2063.7	2074.9	2087.5	2095.8	2098.6	2088.9	2070.7	2049.7
-19.5°	2070.7	2072.1	2076.3	2077.7	2084.7	2091.6	2098.6	2100.0	2090.3	2069.3	2033.0
-22.5°	2063.7	2063.7	2060.9	2058.1	2060.9	2060.9	2063.7	2062.3	2051.1	2033.0	1988.3
-25.5°	1993.8	1991.0	1988.3	1981.3	1981.3	1972.9	1972.9	1970.1	1960.3	1940.7	1903.0
-29°	1872.3	1869.5	1866.7	1859.7	1854.1	1842.9	1844.3	1842.9	1834.6	1817.8	1789.8
-33°	1727.0	1724.2	1722.8	1720.0	1713.0	1699.0	1692.0	1693.4	1689.2	1683.7	1665.5
-37.5°	1435.0	1430.8	1433.6	1439.1	1426.6	1412.6	1416.8	1419.6	1423.8	1430.8	1428.0
-42.5°	1011.6	1007.4	1004.6	1015.8	999.0	987.8	986.4	986.4	983.6	997.6	994.8
-47.5°	550.5	542.1	539.3	551.9	519.8	519.8	511.4	338.1	336.7	528.2	510.0
-55°	53.1	51.7	54.5	55.9	51.7	46.1	40.5	37.7	36.3	37.7	37.7
-65°	30.7	30.7	30.7	32.1	33.5	33.5	33.5	33.5	34.9	36.3	34.9
-75°	33.5	33.5	33.5	32.1	33.5	37.7	41.9	41.9	39.1	34.9	32.1
-85°	0.0	1.4	4.2	11.2	15.4	18.2	18.2	16.8	16.8	15.4	15.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P95422

CATALOG NUMBER: VFS-K-B40-5-LED-E1-VAT

CANDELA DISTRIBUTION (continued):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	12.6	12.6
75°	18.2	18.2	18.2	16.8	18.2	15.4	14.0	14.0	16.8	14.0	12.6
65°	50.3	47.5	44.7	44.7	48.9	43.3	43.3	25.2	26.5	18.2	12.6
55°	783.8	750.3	694.4	612.0	447.1	391.2	237.5	61.5	34.9	25.2	12.6
47.5°	1326.0	1274.3	1211.4	1123.4	972.5	803.4	591.0	107.6	39.1	30.7	12.6
42.5°	1768.9	1728.4	1675.3	1571.9	1388.8	1098.2	823.0	206.8	41.9	30.7	12.6
37.5°	2341.8	2323.6	2239.8	2093.0	1848.5	1419.6	1036.7	299.0	43.3	30.7	12.6
33°	2999.8	2969.1	2853.1	2632.4	2316.6	1766.1	1226.8	528.2	50.3	30.7	12.6
29°	3557.3	3514.0	3375.7	3076.7	2675.7	2031.6	1359.5	609.2	55.9	29.3	12.6
25.5°	3877.3	3813.0	3646.8	3325.4	2881.1	2189.5	1425.2	669.3	60.1	29.3	12.6
22.5°	3962.5	3878.7	3720.8	3431.6	2970.5	2271.9	1472.7	718.2	65.7	29.3	12.6
19.5°	3948.6	3873.1	3730.6	3480.5	3041.8	2347.3	1528.6	589.6	72.7	29.3	12.6
17°	3825.6	3782.3	3666.3	3460.9	3064.1	2372.5	1563.5	605.0	76.8	29.3	12.6
15°	3627.2	3600.7	3491.7	3312.8	2978.9	2339.0	1581.7	614.8	81.0	29.3	12.6
13°	3312.8	3325.4	3217.8	3093.5	2823.8	2264.9	1588.6	626.0	82.4	29.3	12.6
11°	2962.1	3013.8	2931.4	2846.2	2622.6	2162.9	1576.1	634.3	83.8	27.9	12.6
9°	2671.5	2741.4	2670.1	2577.9	2424.2	2062.3	1559.3	642.7	86.6	27.9	11.2
7°	2517.8	2591.9	2538.8	2445.1	2294.2	1993.8	1548.1	649.7	89.4	27.9	11.2
5°	2432.6	2502.4	2463.3	2352.9	2220.2	1960.3	1545.3	653.9	92.2	27.9	11.2
3°	2373.9	2441.0	2415.8	2287.3	2168.5	1933.8	1543.9	655.3	93.6	27.9	11.2
1°	2326.4	2394.8	2373.9	2230.0	2119.6	1907.2	1536.9	652.5	93.6	26.5	11.2
0°	2306.8	2373.9	2352.9	2204.8	2098.6	1893.2	1532.8	883.0	95.0	27.9	11.2
-1°	2285.9	2351.5	2332.0	2179.7	2077.7	1877.9	1527.2	648.3	95.0	27.9	11.2
-3°	2235.6	2298.4	2290.1	2150.3	2040.0	1849.9	1509.0	642.7	93.6	26.5	11.2
-5°	2182.5	2248.1	2264.9	2147.5	2016.2	1824.8	1490.8	634.3	92.2	27.9	11.2
-7°	2135.0	2209.0	2252.3	2165.7	2005.0	1809.4	1476.9	624.6	89.4	27.9	11.2
-9°	2100.0	2181.1	2239.8	2178.3	1993.8	1794.0	1462.9	616.2	85.2	27.9	11.2
-11°	2081.9	2161.5	2230.0	2182.5	1979.9	1782.9	1453.1	605.0	83.8	29.3	11.2
-13°	2069.3	2140.6	2216.0	2178.3	1975.7	1773.1	1441.9	595.2	81.0	27.9	11.2
-15°	2059.5	2111.2	2179.7	2155.9	1971.5	1764.7	1440.5	584.0	79.6	26.5	11.2
-17°	2041.3	2070.7	2126.6	2102.8	1950.5	1753.5	1444.7	571.5	76.8	25.2	11.2
-19.5°	1993.8	2000.8	2044.1	2013.4	1893.2	1714.4	1418.2	544.9	72.7	23.8	11.2
-22.5°	1928.2	1914.2	1931.0	1905.8	1808.0	1630.6	1341.3	490.4	64.3	21.0	11.2
-25.5°	1851.3	1819.2	1805.2	1775.9	1687.8	1504.8	1208.6	289.2	57.3	19.6	11.2
-29°	1752.1	1704.6	1664.1	1634.8	1557.9	1358.1	1043.7	254.3	47.5	19.6	11.2
-33°	1625.0	1574.7	1527.2	1488.0	1409.8	1200.2	857.9	205.4	37.7	18.2	11.2
-37.5°	1387.4	1346.9	1298.0	1239.3	1141.5	944.5	627.4	148.1	27.9	16.8	12.6
-42.5°	968.3	944.5	904.0	856.5	762.9	480.6	306.0	96.4	25.2	15.4	12.6
-47.5°	336.7	424.8	345.1	329.7	321.4	250.1	174.7	58.7	22.4	15.4	12.6
-55°	43.3	46.1	55.9	57.3	55.9	50.3	47.5	44.7	19.6	14.0	12.6
-65°	34.9	34.9	33.5	32.1	34.9	37.7	33.5	34.9	16.8	12.6	12.6
-75°	29.3	29.3	33.5	34.9	32.1	30.7	23.8	19.6	14.0	12.6	12.6
-85°	15.4	14.0	14.0	14.0	14.0	14.0	12.6	12.6	12.6	12.6	12.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P95422

CATALOG NUMBER: VFS-K-B40-5-LED-E1-VAT

CANDELA DISTRIBUTION (continued):

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)