

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: McGRAW-EDISON

Report Number: P145901

Luminaire Tested: **VPL-E01-LED-E1-CPL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145901
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VPL-E01-LED-E1-CPL-7050
Description: VALET LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2763.8 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

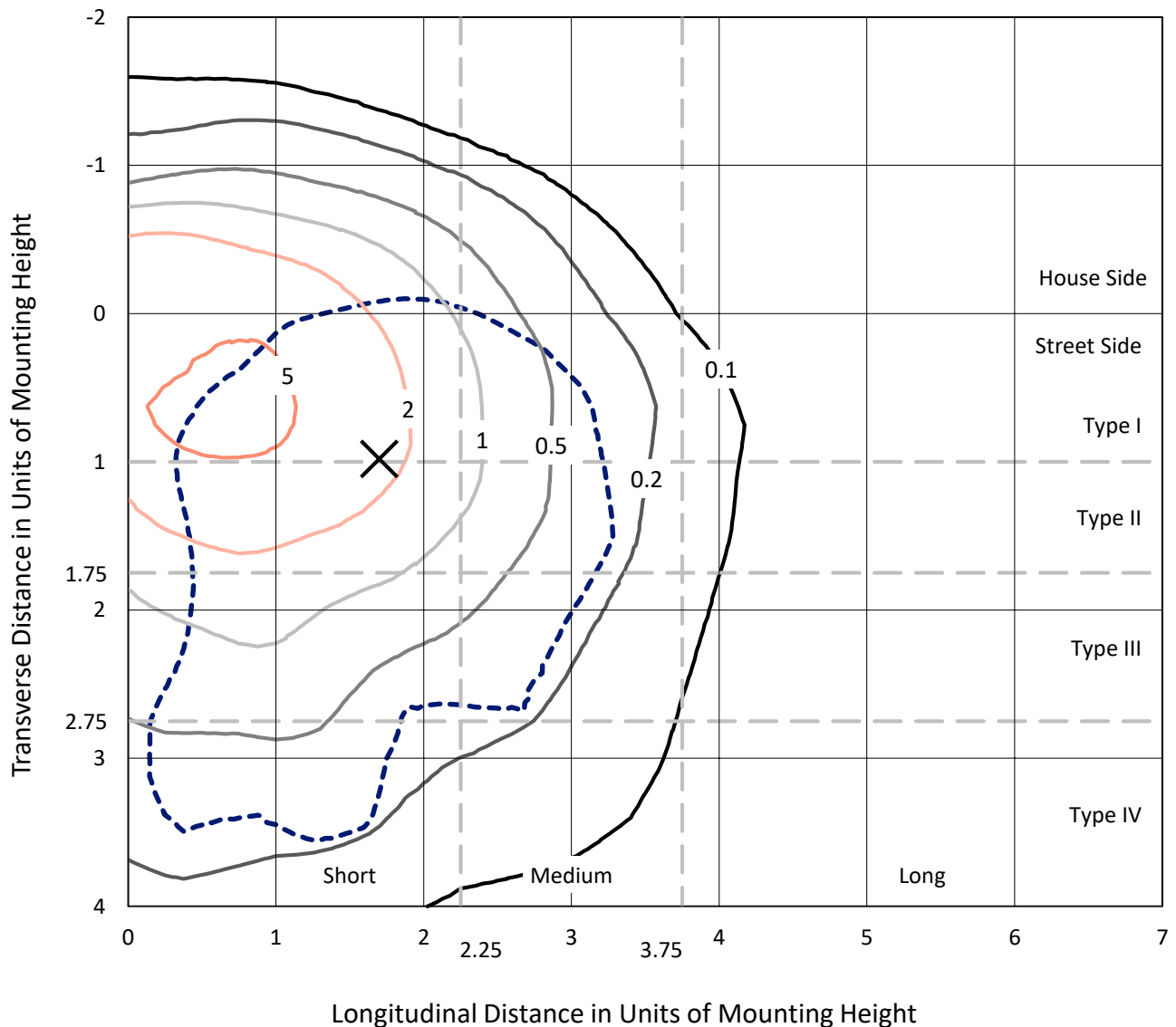
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P145901
 CATALOG NUMBER: VPL-E01-LED-E1-CPL-7050

Iso-Footcandle Lines of Horizontal Illumination

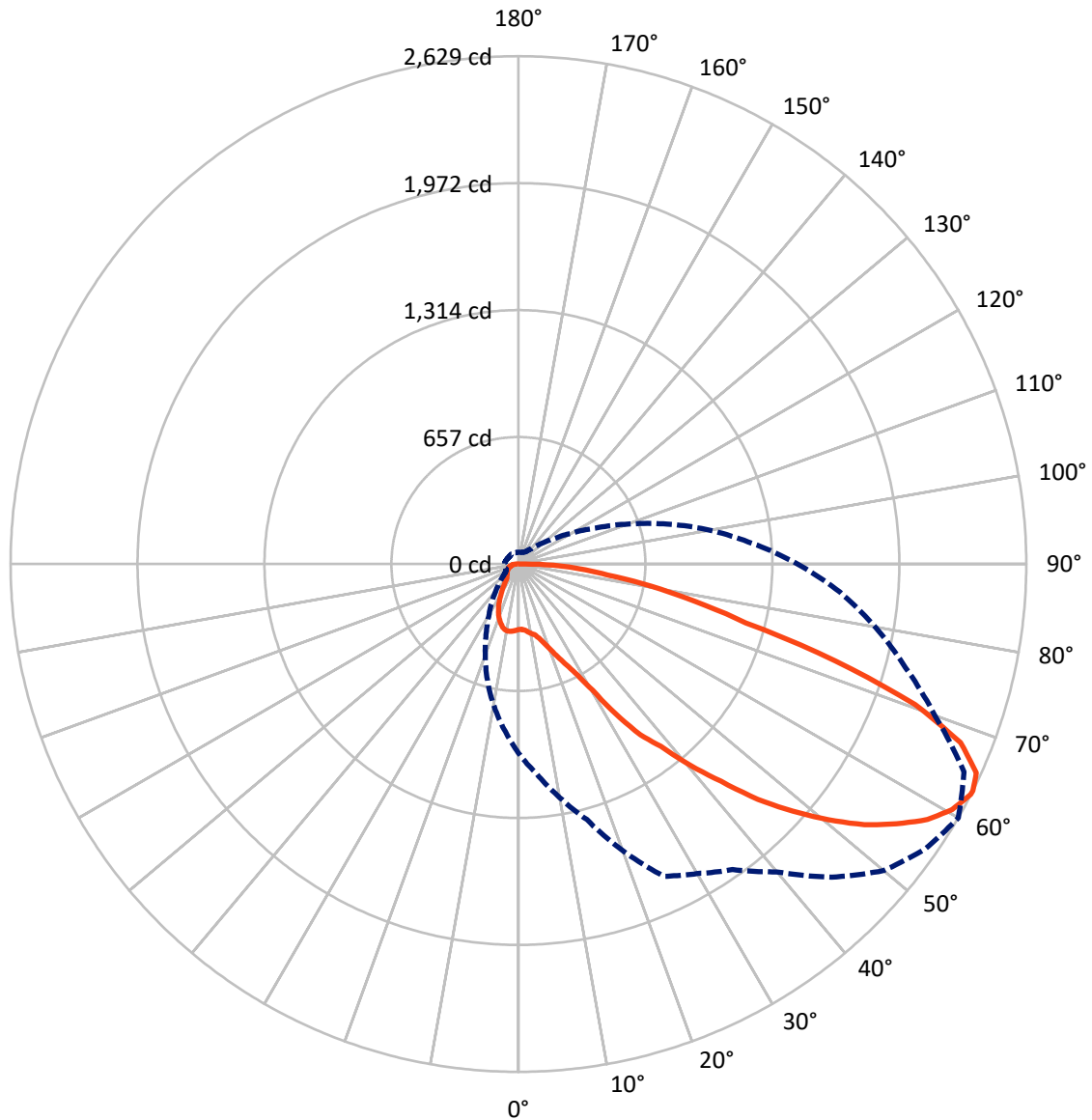
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P145901
CATALOG NUMBER: VPL-E01-LED-E1-CPL-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P145901

CATALOG NUMBER: VPL-E01-LED-E1-CPL-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.5	0.0	578.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	2185.2	0.0	2185.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	2763.8	0.0	2763.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	1.2
10°-20°	104.0	3.8
20°-30°	184.0	6.7
30°-40°	290.5	10.5
40°-50°	427.1	15.5
50°-60°	562.7	20.4
60°-70°	627.1	22.7
70°-80°	412.1	14.9
80°-90°	122.9	4.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2763.8	100.0
0°-180°	2763.8	100.0



REPORT NUMBER: P145901

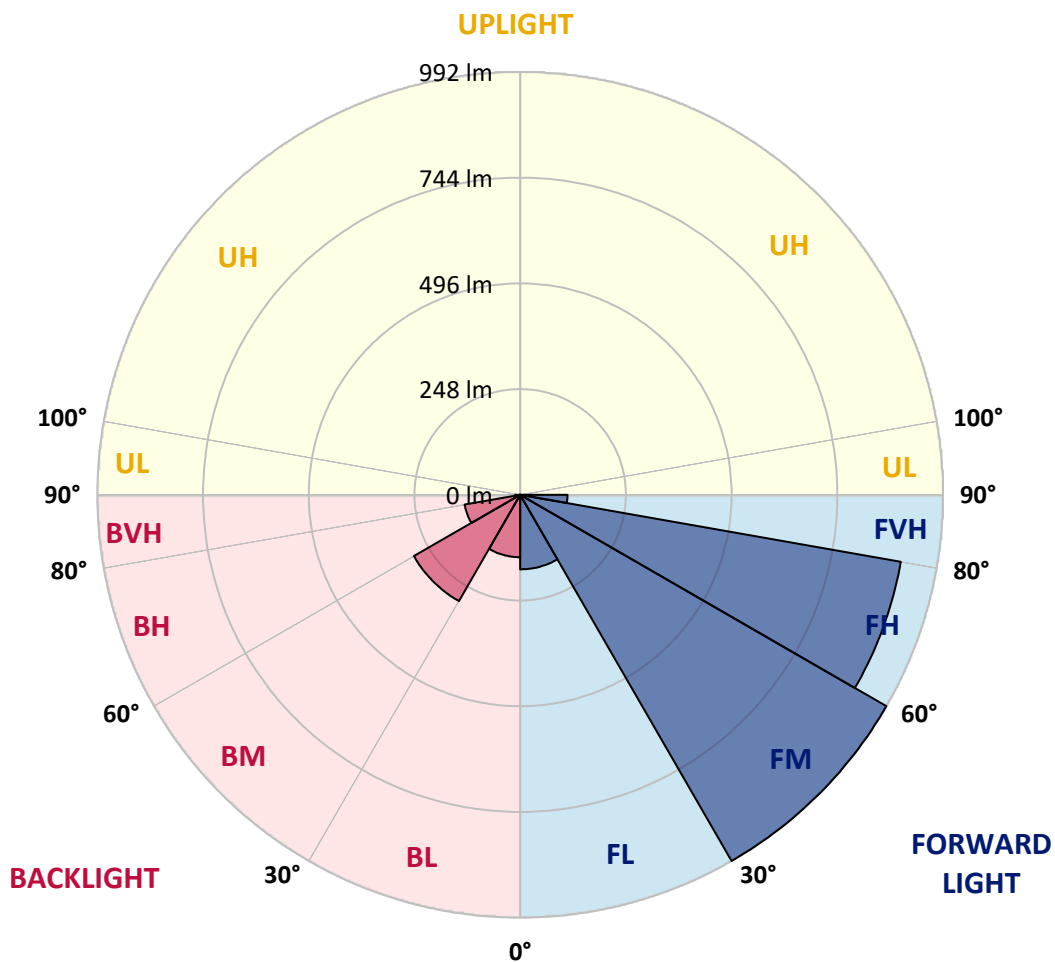
CATALOG NUMBER: VPL-E01-LED-E1-CPL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.9	6.3			
FM	(30°-60°)	992.3	35.9			
FH	(60°-80°)	907.0	32.8			G1/1800
FVH	(80°-90°)	111.1	4.0			G2/225
BL	(0°-30°)	146.5	5.3	B1/500		
BM	(30°-60°)	288.0	10.4	B1/1000		
BH	(60°-80°)	132.2	4.8	B1/500		G1/500
BVH	(80°-90°)	11.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P145901

CATALOG NUMBER: VPL-E01-LED-E1-CPL-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	339.0	339.2	338.6	338.4	338.0	338.2	338.2	337.8	337.8	338.0	337.4
5°	337.4	337.8	337.6	338.0	338.4	339.0	339.6	340.3	340.9	341.7	341.9
7.5°	335.5	336.8	337.0	338.2	339.6	341.3	343.3	345.6	348.7	349.5	351.3
10°	336.6	338.8	340.1	342.5	344.8	347.8	351.5	353.8	357.7	359.1	361.8
12.5°	344.6	346.2	347.8	350.7	354.0	357.9	362.0	365.5	369.6	371.0	372.1
15°	359.8	361.4	363.2	366.1	369.6	374.3	380.3	384.6	389.5	393.2	395.9
17.5°	380.9	380.9	385.2	386.0	392.8	400.0	407.4	415.8	420.9	424.0	428.9
20°	411.3	411.3	417.0	419.7	425.4	434.7	444.7	453.9	461.3	467.5	472.0
22.5°	463.8	461.5	466.5	465.9	472.8	486.6	496.4	501.6	511.4	515.1	521.1
25°	524.8	532.8	538.1	538.1	541.0	555.1	563.3	567.2	576.3	573.6	579.7
27.5°	599.5	621.0	640.9	649.1	645.2	660.8	663.7	667.4	666.4	660.0	658.1
30°	672.9	710.9	741.9	760.8	782.5	812.7	812.7	817.6	806.9	789.3	778.8
32.5°	723.8	772.7	820.1	859.3	896.2	942.4	961.9	989.0	993.5	1000.2	976.9
35°	765.7	834.2	885.1	944.0	989.2	1036.0	1087.9	1134.9	1166.1	1160.9	1151.7
37.5°	794.4	882.5	953.5	1022.6	1091.4	1144.9	1194.2	1255.5	1315.3	1327.2	1302.1
40°	814.5	916.5	1014.2	1099.2	1185.6	1266.0	1325.9	1391.8	1485.4	1525.0	1504.5
42.5°	824.2	943.2	1052.2	1160.3	1269.7	1371.3	1446.4	1536.7	1647.7	1715.4	1692.9
45°	828.3	959.6	1083.0	1206.1	1337.4	1462.8	1559.7	1662.1	1787.1	1895.8	1899.9
47.5°	827.2	968.4	1104.1	1238.7	1390.6	1536.5	1666.4	1782.6	1924.2	2038.5	2080.9
50°	824.4	971.5	1116.8	1258.4	1424.0	1590.5	1736.8	1874.9	2033.1	2177.8	2242.5
52.5°	824.2	972.1	1123.2	1269.3	1443.7	1623.5	1780.9	1944.1	2117.5	2268.7	2369.5
55°	829.1	975.8	1130.2	1276.9	1454.4	1642.2	1805.7	1987.4	2154.2	2326.0	2456.1
57.5°	849.0	993.1	1146.8	1289.8	1466.3	1657.0	1825.0	1999.9	2165.1	2349.8	2506.4
60°	892.7	1025.3	1175.7	1313.6	1497.3	1695.7	1843.3	1982.2	2144.6	2343.0	2513.5
62.5°	960.8	1077.0	1216.1	1357.5	1560.3	1769.4	1850.9	1941.8	2093.9	2304.0	2482.6
63°	978.3	1090.8	1226.8	1369.6	1578.6	1783.4	1850.3	1931.1	2079.9	2292.5	2468.6
65°	1051.1	1154.4	1276.5	1427.5	1661.7	1827.7	1827.9	1868.3	2008.7	2229.1	2411.3
67.5°	1160.7	1259.2	1353.6	1503.9	1753.6	1849.9	1761.6	1731.0	1855.2	2094.9	2266.1
70°	1233.8	1355.5	1408.4	1524.0	1766.1	1823.0	1656.7	1554.8	1657.8	1858.1	2010.1
72.5°	1235.6	1374.4	1389.8	1438.2	1649.0	1694.5	1476.2	1338.0	1400.0	1568.1	1648.1
75°	1103.7	1278.1	1246.5	1228.7	1342.8	1362.3	1194.0	1136.5	1215.9	1315.3	1275.2
77.5°	820.5	1052.4	988.1	912.2	953.7	956.5	961.9	1070.2	1167.7	1208.3	1150.1
80°	509.2	773.1	723.8	598.6	614.6	661.8	803.4	994.9	1101.6	1130.8	1014.2
82.5°	307.0	568.7	542.4	456.8	476.9	594.5	751.1	804.1	840.0	837.3	716.8
85°	224.9	386.2	421.9	428.3	499.7	577.3	574.0	534.8	512.8	451.3	385.2
87.5°	70.8	199.3	236.4	275.6	301.9	285.7	280.9	242.8	173.8	146.9	161.5
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: P145901

CATALOG NUMBER: VPL-E01-LED-E1-CPL-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	337.4	338.2	338.6	338.4	338.6	338.6	339.8	339.4	339.8	339.6	340.9
5°	342.5	343.7	344.8	344.8	345.0	345.4	347.0	347.0	347.8	349.5	350.3
7.5°	352.6	354.2	354.4	354.8	356.1	355.4	356.5	356.9	357.5	358.3	359.3
10°	363.0	365.3	365.3	365.1	365.3	363.7	364.3	363.0	363.2	364.5	365.7
12.5°	374.7	376.0	375.1	374.5	374.5	371.5	371.0	369.4	368.6	368.8	369.2
15°	398.1	397.1	396.9	395.9	392.2	389.9	388.3	383.1	380.5	379.0	376.6
17.5°	429.3	429.9	428.9	427.9	422.6	415.0	411.7	406.1	402.4	398.7	394.2
20°	474.9	470.8	470.4	467.1	459.7	449.0	441.0	432.0	426.9	421.5	416.8
22.5°	525.2	520.9	518.0	511.6	500.7	487.2	473.9	462.4	454.6	450.7	447.4
25°	581.0	578.5	573.8	557.6	549.0	533.4	518.8	507.5	498.7	495.4	489.7
27.5°	647.9	649.7	640.9	625.7	614.8	592.9	580.4	560.9	553.5	541.6	534.2
30°	769.8	757.9	742.9	719.7	697.8	668.2	647.5	627.2	616.3	600.3	580.6
32.5°	969.1	923.7	883.5	834.2	787.6	749.9	719.9	694.3	677.6	651.2	617.7
35°	1129.7	1086.0	1019.5	947.9	886.8	838.3	800.6	776.4	743.1	700.8	652.4
37.5°	1247.5	1197.3	1135.1	1080.3	1013.6	959.6	908.5	858.2	811.4	747.4	685.6
40°	1438.8	1370.7	1268.3	1203.6	1149.0	1076.0	1028.2	960.4	889.2	806.7	717.2
42.5°	1628.0	1537.7	1445.0	1370.7	1293.1	1213.9	1148.2	1057.3	962.7	855.8	745.6
45°	1847.8	1737.2	1615.9	1512.1	1432.4	1339.3	1255.1	1143.5	1022.8	896.0	770.2
47.5°	2021.0	1911.4	1774.5	1669.9	1562.6	1457.5	1348.3	1210.6	1067.6	928.8	793.2
50°	2187.0	2081.4	1935.9	1807.4	1684.0	1557.2	1425.3	1258.2	1102.7	954.5	811.4
52.5°	2336.0	2242.0	2084.8	1931.3	1793.4	1647.3	1483.7	1302.7	1136.3	981.0	825.8
55°	2462.2	2374.2	2233.2	2042.2	1885.6	1723.9	1539.0	1343.4	1171.8	1008.7	836.3
57.5°	2547.0	2496.1	2345.5	2139.6	1961.3	1789.1	1580.6	1384.2	1205.1	1025.9	840.8
60°	2586.4	2579.6	2452.2	2227.7	2028.6	1840.0	1633.1	1427.5	1227.0	1033.7	834.4
62.5°	2578.2	2626.6	2533.5	2288.0	2071.5	1871.8	1666.8	1446.2	1221.5	1014.8	806.3
63°	2570.6	2628.7	2544.9	2294.0	2075.0	1874.9	1670.1	1443.9	1216.3	1006.4	796.7
65°	2515.0	2604.5	2547.8	2283.3	2059.0	1866.1	1655.3	1408.4	1165.2	953.5	742.1
67.5°	2378.7	2468.4	2437.0	2165.7	1955.3	1771.3	1552.1	1287.6	1040.1	841.0	640.9
70°	2097.4	2177.6	2140.0	1901.4	1706.0	1575.5	1367.2	1070.8	847.4	676.0	487.8
72.5°	1659.0	1715.4	1723.7	1534.0	1384.4	1306.0	1101.4	807.8	618.9	470.8	316.7
75°	1228.5	1215.3	1218.0	1112.1	1051.1	1018.1	823.3	554.1	417.0	287.7	187.8
77.5°	1032.5	938.1	857.6	828.3	757.3	736.7	543.0	340.1	243.4	172.2	106.9
80°	839.6	696.5	579.5	527.6	499.9	504.0	300.4	181.2	127.4	93.8	66.9
82.5°	574.0	465.2	366.9	318.7	313.8	318.5	156.2	88.9	67.3	54.0	42.1
85°	339.4	319.5	285.3	253.2	242.2	228.6	116.2	63.6	34.7	28.7	23.6
87.5°	146.7	180.2	184.5	183.7	170.9	137.3	42.7	16.4	14.6	7.4	6.0
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: P145901

CATALOG NUMBER: VPL-E01-LED-E1-CPL-7050

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	340.9	341.1	340.7	341.1	342.5	342.5	342.3	342.7	342.9	344.2	343.7
5°	351.1	351.3	351.5	353.0	354.0	355.2	354.8	355.2	356.1	356.3	356.7
7.5°	360.6	361.8	363.4	364.1	365.9	366.3	368.2	368.4	368.8	368.0	367.1
10°	367.1	368.4	370.4	371.5	374.7	375.1	376.6	377.0	377.8	377.2	376.6
12.5°	370.4	371.5	373.7	375.8	380.3	381.7	384.2	385.6	386.6	386.0	384.0
15°	377.2	377.0	378.2	379.9	384.0	386.6	390.1	392.0	393.2	392.2	389.5
17.5°	392.8	389.9	389.9	388.9	392.0	392.6	394.0	395.1	394.6	391.6	387.3
20°	414.3	410.0	407.4	404.9	403.9	398.7	396.1	392.4	389.1	383.6	378.6
22.5°	442.3	439.2	433.0	427.5	419.7	409.2	397.9	388.3	381.1	373.5	365.1
25°	484.5	477.5	468.7	455.6	445.5	427.1	408.2	389.9	374.5	362.6	348.5
27.5°	524.3	509.6	492.9	472.4	453.9	429.3	405.3	384.2	364.1	345.0	328.8
30°	557.6	531.9	504.8	476.1	449.8	420.1	392.2	368.2	345.4	322.8	307.4
32.5°	582.6	545.7	509.6	472.8	440.4	405.5	373.5	347.8	322.0	298.2	280.3
35°	605.2	555.3	508.1	464.0	425.6	387.0	352.6	323.8	295.5	270.1	249.5
37.5°	621.4	558.6	502.0	451.3	406.7	364.5	327.1	296.5	266.2	240.3	217.7
40°	633.9	557.0	490.3	431.8	380.9	337.0	300.4	268.4	238.1	212.2	188.6
42.5°	642.3	550.8	472.6	409.6	359.3	313.4	277.7	244.0	213.6	186.5	160.5
45°	653.2	548.4	461.7	393.0	339.8	293.5	255.3	222.5	190.9	162.5	137.7
47.5°	663.5	546.9	452.9	379.2	322.2	275.4	237.6	203.2	171.4	143.7	121.1
50°	669.6	544.7	443.7	362.6	302.5	256.9	220.8	185.9	153.9	127.4	107.3
52.5°	671.5	540.1	431.6	343.7	285.5	241.1	203.6	168.7	137.9	114.1	95.4
55°	670.0	531.3	415.2	328.4	268.0	223.7	186.1	152.3	124.4	102.0	87.0
57.5°	663.1	513.7	394.0	308.9	248.1	201.7	164.8	133.8	109.0	91.1	79.6
60°	647.5	488.2	368.2	281.6	219.6	175.7	140.8	114.1	93.2	80.2	72.6
62.5°	613.4	451.5	330.6	243.0	181.4	141.0	110.6	90.9	76.8	70.0	65.5
63°	603.4	438.8	319.5	232.7	174.8	133.2	103.8	86.0	73.3	67.7	64.0
65°	550.4	380.1	270.1	187.2	135.4	101.0	79.2	67.5	60.7	58.7	57.7
67.5°	451.1	295.7	190.0	125.6	90.9	69.8	58.5	54.0	51.5	51.3	51.9
70°	318.7	196.2	117.6	80.4	62.6	52.7	48.4	46.4	45.1	45.6	46.8
72.5°	207.3	115.1	74.3	58.9	50.9	46.4	43.3	42.7	42.3	41.9	42.3
75°	109.6	72.0	56.2	49.3	44.5	40.8	38.8	38.0	38.2	38.2	38.2
77.5°	67.9	54.8	48.0	43.5	39.8	36.1	34.1	33.5	33.7	34.1	34.3
80°	52.1	47.8	42.3	39.0	33.7	30.6	29.6	29.3	29.8	29.8	30.4
82.5°	38.2	36.9	34.9	30.8	26.7	24.6	24.4	25.2	24.4	24.2	24.6
85°	22.4	20.9	22.8	19.5	17.9	16.6	17.4	19.1	19.9	18.9	18.5
87.5°	7.2	4.9	7.2	8.0	7.2	6.2	7.8	9.2	9.4	9.0	10.3
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: P145901

CATALOG NUMBER: VPL-E01-LED-E1-CPL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	343.5	345.0	343.5	344.2	344.0	343.5	344.2	343.3	342.9	344.2	344.0
5°	356.5	356.7	354.8	355.0	354.8	353.2	353.2	352.4	351.3	351.5	351.1
7.5°	366.9	366.5	365.1	364.5	362.6	361.4	360.6	359.3	358.5	357.7	357.3
10°	374.9	373.9	372.9	371.0	369.2	368.2	365.9	364.1	363.4	362.2	361.4
12.5°	381.9	380.1	378.4	376.2	373.9	372.3	369.6	368.2	367.1	365.5	364.3
15°	385.8	382.3	379.2	375.8	373.3	370.8	367.8	367.1	365.7	364.1	361.8
17.5°	381.1	376.2	370.4	366.7	363.0	359.3	356.3	356.3	355.6	353.8	349.9
20°	371.5	364.1	357.3	351.3	347.6	342.3	340.5	337.6	335.5	332.3	327.3
22.5°	355.6	347.8	339.0	333.1	326.7	320.8	317.1	312.6	310.9	305.6	299.0
25°	338.0	326.7	317.3	309.5	300.6	293.7	288.5	282.4	278.3	273.1	264.9
27.5°	317.1	305.4	294.7	286.1	276.8	267.2	257.8	250.6	243.2	237.2	232.5
30°	294.5	282.4	269.3	259.2	248.5	236.4	228.6	219.0	213.2	206.7	200.5
32.5°	264.9	254.3	238.9	227.2	214.0	204.6	198.2	189.0	182.2	176.7	173.2
35°	232.5	216.5	201.1	192.3	183.3	175.7	166.8	159.7	155.1	149.4	146.3
37.5°	197.2	178.5	165.4	157.6	148.4	144.7	139.1	134.8	130.7	126.8	124.4
40°	165.6	148.4	136.5	129.9	123.7	119.6	116.2	114.3	111.6	108.6	106.7
42.5°	139.3	125.6	113.9	107.7	103.0	102.6	100.4	98.9	97.9	96.0	93.2
45°	118.8	106.3	96.2	91.3	89.3	89.5	89.5	88.2	88.2	87.6	85.8
47.5°	105.1	93.8	86.4	83.1	82.3	82.5	81.9	81.5	81.7	81.5	80.4
50°	94.4	84.8	78.6	77.4	77.2	77.0	76.1	75.5	75.3	75.7	75.5
52.5°	83.5	75.5	72.0	71.6	71.8	71.8	71.6	71.4	71.8	72.2	71.6
55°	77.4	71.6	69.4	69.4	69.4	69.4	69.2	69.0	69.6	70.2	69.2
57.5°	71.6	67.5	66.7	66.7	66.7	66.3	66.3	66.5	67.3	68.5	67.3
60°	67.3	65.3	65.3	65.5	65.3	64.4	63.8	63.8	64.8	66.5	65.5
62.5°	63.2	62.2	62.6	62.4	62.0	61.0	60.1	60.1	61.4	63.0	63.4
63°	62.2	61.4	61.8	61.6	61.2	60.3	59.5	59.5	60.5	62.2	62.8
65°	57.7	57.9	58.1	58.3	58.1	57.9	56.8	56.4	57.3	58.5	59.3
67.5°	52.3	52.7	53.2	54.2	53.8	53.8	53.2	52.7	52.9	53.6	54.2
70°	47.4	47.8	48.4	48.8	49.0	49.3	48.8	48.2	48.4	48.6	49.0
72.5°	42.7	43.1	43.5	44.3	44.3	44.3	43.9	43.5	43.7	44.1	44.5
75°	38.4	38.6	39.0	39.6	39.8	39.4	39.4	39.0	39.2	39.8	40.2
77.5°	34.1	33.7	33.9	34.3	34.9	34.9	35.1	34.9	35.3	35.7	36.1
80°	29.1	28.7	28.3	28.5	29.3	30.4	31.4	31.4	32.0	32.2	32.8
82.5°	23.2	22.8	22.6	23.2	23.0	24.4	26.7	27.9	28.7	29.6	30.0
85°	18.1	17.0	17.4	17.4	17.0	19.3	21.3	23.0	23.2	24.4	24.6
87.5°	10.7	10.3	9.9	9.4	10.9	13.1	15.0	15.6	16.0	16.6	17.2
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: P145901

CATALOG NUMBER: VPL-E01-LED-E1-CPL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	342.3	344.0	343.5	343.3	343.5	343.3	342.7	342.9	342.5	342.7	342.3
5°	348.9	349.7	349.1	348.1	348.1	346.6	345.6	344.8	343.7	343.3	342.5
7.5°	355.2	354.6	353.8	352.0	350.9	349.1	347.6	346.0	345.0	343.7	342.3
10°	359.1	357.9	356.3	354.0	351.1	349.5	347.4	345.0	343.7	343.1	341.7
12.5°	361.0	357.7	355.0	350.9	346.8	343.7	341.5	339.0	338.4	337.6	336.6
15°	356.7	352.0	345.2	339.6	334.3	330.0	328.1	325.5	324.9	324.7	324.5
17.5°	342.1	334.9	328.4	321.0	316.2	312.3	310.7	310.1	309.1	308.7	308.9
20°	318.7	312.6	306.0	303.5	298.0	297.0	294.5	292.9	291.0	290.4	289.4
22.5°	291.4	283.8	279.7	277.9	275.6	270.3	269.0	267.4	264.9	263.1	262.7
25°	259.6	253.4	253.2	248.9	247.1	244.2	240.9	238.9	237.4	235.2	233.5
27.5°	227.2	224.9	221.0	217.7	216.5	214.9	209.9	208.9	207.3	205.4	203.6
30°	197.0	195.4	191.7	188.6	186.8	183.5	178.7	179.2	175.9	173.4	171.8
32.5°	167.7	166.4	162.9	162.1	156.2	154.5	149.6	145.9	142.6	140.2	138.1
35°	141.2	137.9	138.1	134.4	131.1	126.2	121.1	116.4	113.7	112.5	110.6
37.5°	122.1	119.0	115.9	111.8	108.2	104.7	101.6	100.1	98.5	98.9	99.1
40°	104.9	102.6	100.4	97.5	95.2	93.8	93.0	93.0	93.2	94.2	95.0
42.5°	92.6	90.7	89.5	88.5	88.9	88.9	89.5	90.5	91.5	93.0	93.8
45°	84.3	83.3	82.9	83.3	84.6	85.6	87.0	88.7	90.3	91.7	92.3
47.5°	79.4	78.8	78.8	79.8	81.7	83.3	85.6	87.2	89.1	90.3	90.7
50°	74.1	73.9	73.9	74.7	76.3	78.4	80.7	82.3	83.9	85.0	85.4
52.5°	71.0	70.4	70.2	71.2	72.6	74.7	77.0	78.6	79.8	80.7	80.9
55°	68.3	67.7	67.3	68.5	70.2	72.0	74.7	76.5	77.8	78.8	79.6
57.5°	66.1	65.5	65.1	66.5	68.1	70.4	72.6	74.7	76.3	77.6	78.4
60°	64.2	63.4	63.0	64.6	66.3	68.5	70.8	73.1	75.3	76.8	77.2
62.5°	62.0	61.4	60.7	61.8	62.6	64.2	66.3	68.5	70.6	72.0	72.0
63°	61.4	61.2	60.3	61.2	62.0	63.4	65.5	67.5	69.6	71.2	71.0
65°	58.7	58.7	58.3	59.1	59.9	61.4	63.0	65.3	67.1	68.3	68.5
67.5°	54.4	54.6	55.0	55.8	57.5	58.9	60.7	62.8	64.4	65.3	65.7
70°	49.5	49.9	50.7	51.9	53.4	54.6	55.8	57.9	59.3	60.1	60.5
72.5°	44.7	45.8	46.4	47.4	48.2	49.5	50.5	52.5	53.8	54.4	55.4
75°	40.4	41.2	41.7	42.3	43.1	43.5	44.7	45.6	47.2	48.0	49.3
77.5°	36.3	36.7	37.4	38.4	38.6	39.2	39.6	40.8	41.7	42.5	43.5
80°	32.6	33.0	33.9	34.5	34.7	35.1	35.3	35.1	34.9	34.3	35.1
82.5°	29.3	29.8	30.8	31.4	32.0	32.0	31.8	29.6	28.5	28.9	29.6
85°	24.2	24.6	25.7	26.9	27.1	26.9	27.1	24.8	23.4	22.8	23.4
87.5°	15.2	14.8	18.3	19.9	18.7	19.1	19.3	18.1	16.8	14.4	15.0
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: P145901
 CATALOG NUMBER: VPL-E01-LED-E1-CPL-7050

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	0°
2.5°	342.7	341.3	341.5	341.9	341.9	342.5	341.7	340.7	341.3	340.3	340.1	2.5°
5°	342.5	340.7	340.7	341.1	340.7	341.1	340.5	339.4	340.1	338.8	338.6	5°
7.5°	341.7	340.7	341.1	341.5	340.9	341.1	340.9	339.4	339.6	339.0	337.6	7.5°
10°	341.3	340.7	341.5	342.7	342.7	342.9	342.3	340.7	339.6	339.0	337.8	10°
12.5°	337.0	337.8	339.4	342.3	343.3	345.0	345.8	345.0	345.4	344.6	344.2	12.5°
15°	324.7	326.7	329.4	333.7	336.8	340.5	345.0	347.0	350.9	354.0	356.1	15°
17.5°	309.9	311.3	314.2	319.1	323.0	330.4	336.6	343.5	351.1	359.3	366.5	17.5°
20°	291.6	290.6	295.1	300.4	307.2	315.4	324.5	334.9	347.4	360.6	373.1	20°
22.5°	264.7	264.7	269.5	275.8	284.0	293.5	306.0	317.3	333.7	352.8	371.2	22.5°
25°	234.0	234.6	237.9	245.0	250.8	264.3	276.0	290.6	310.3	331.2	355.9	25°
27.5°	201.1	205.2	204.4	212.0	219.6	232.9	248.9	263.7	285.7	308.0	336.2	27.5°
30°	171.4	170.7	170.5	179.6	187.2	199.3	212.4	231.1	253.2	282.0	314.4	30°
32.5°	134.4	136.7	138.3	143.7	151.9	163.2	177.3	196.8	223.5	252.4	289.0	32.5°
35°	111.0	111.6	113.9	117.0	124.2	133.6	148.4	165.6	189.0	219.0	257.8	35°
37.5°	99.5	100.1	102.6	105.5	110.6	117.6	127.6	141.0	162.5	190.4	226.6	37.5°
40°	95.8	96.5	97.9	100.6	105.3	111.2	119.2	129.5	145.1	166.8	198.4	40°
42.5°	94.2	94.2	94.4	96.5	101.2	108.2	116.8	126.0	137.5	153.9	179.6	42.5°
45°	92.3	92.3	92.1	93.6	97.3	105.3	115.7	127.0	139.6	153.7	173.8	45°
47.5°	90.7	90.3	89.9	90.5	93.6	101.8	113.9	127.6	143.7	161.3	181.6	47.5°
50°	85.0	85.0	84.8	85.0	87.8	96.5	110.4	127.0	147.3	170.1	194.8	50°
52.5°	80.9	81.1	81.3	81.3	83.5	92.3	107.7	127.2	151.5	178.7	209.9	52.5°
55°	79.8	80.2	80.2	79.8	81.7	89.7	105.3	126.6	154.3	188.4	226.2	55°
57.5°	78.6	78.8	79.0	78.6	79.8	86.8	101.8	123.7	153.5	192.1	238.3	57.5°
60°	77.0	76.1	75.9	75.3	76.1	81.7	95.6	117.6	148.6	190.4	242.4	60°
62.5°	72.4	71.8	71.2	70.6	71.2	75.3	88.9	110.0	140.4	183.9	239.1	62.5°
63°	71.4	71.0	70.4	69.8	69.8	74.3	86.6	108.2	138.3	182.0	237.9	63°
65°	68.5	68.3	67.9	67.3	67.1	70.6	81.5	99.7	128.7	173.8	230.1	65°
67.5°	65.3	65.3	65.1	64.2	63.2	65.3	72.9	87.2	111.8	152.7	210.8	67.5°
70°	60.5	60.5	60.3	59.9	58.7	60.1	65.1	74.5	92.1	124.8	176.7	70°
72.5°	55.8	55.8	56.4	56.2	56.4	56.6	59.1	64.2	74.9	97.1	133.6	72.5°
75°	49.7	50.7	50.9	51.3	51.5	51.3	52.5	55.6	61.8	74.5	97.5	75°
77.5°	44.5	46.0	45.8	45.4	45.1	45.4	45.1	46.6	51.1	59.1	72.2	77.5°
80°	36.7	38.2	38.2	38.0	37.6	38.0	37.6	39.0	42.7	49.7	57.5	80°
82.5°	30.2	31.2	31.8	32.2	31.8	33.5	33.5	33.0	35.9	42.1	48.4	82.5°
85°	24.2	25.2	25.9	26.7	27.1	26.7	26.5	26.1	27.7	32.6	36.9	85°
87.5°	15.4	16.2	16.2	16.4	16.4	17.0	15.8	14.4	13.1	18.7	19.5	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P145901

NUMBER: VPL-E01-LED-E1-CPL-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
339.4	339.4	339.4	339.4	339.4	339.4	339.4
339.4	339.4	339.6	339.0	339.6	339.6	339.0
338.0	337.6	337.6	337.4	337.8	337.6	337.4
336.8	336.8	335.9	335.3	335.1	335.9	335.5
336.4	335.9	335.7	335.3	335.5	336.2	336.6
343.7	342.3	342.7	342.5	342.7	343.3	344.6
357.3	357.3	358.3	356.1	357.1	358.1	359.8
372.5	376.2	378.0	377.8	378.2	379.0	380.9
385.4	397.1	405.3	407.4	412.9	414.1	411.3
391.2	412.1	430.6	442.9	456.6	462.2	463.8
379.5	409.6	440.0	468.3	495.4	511.0	524.8
367.3	403.1	443.5	485.8	529.9	569.7	599.5
350.5	397.7	452.3	509.4	567.8	623.3	672.9
332.0	389.1	453.1	522.5	594.7	663.7	723.8
305.6	369.0	440.0	520.4	604.2	690.6	765.7
275.2	337.0	416.6	508.5	603.6	704.3	794.4
242.8	306.0	389.7	488.2	595.6	708.6	814.5
218.4	280.9	363.0	468.9	583.6	705.8	824.2
205.8	259.4	341.3	450.0	570.3	698.8	828.3
208.3	253.7	328.4	434.5	558.4	691.2	827.2
222.0	262.3	328.1	428.7	550.8	684.2	824.4
242.8	281.8	340.1	435.5	554.9	683.6	824.2
266.2	309.1	368.8	453.7	572.4	694.7	829.1
288.7	342.3	405.7	494.6	605.4	722.4	849.0
302.1	372.7	453.1	552.2	656.3	771.0	892.7
305.2	390.9	495.2	608.9	726.1	841.4	960.8
305.0	392.8	502.4	620.6	740.2	857.6	978.3
300.2	396.5	521.7	659.2	797.1	927.2	1051.1
285.5	389.9	532.3	695.1	853.5	1003.9	1160.7
251.6	360.0	519.8	706.8	887.2	1054.8	1233.8
197.0	297.0	448.8	646.0	841.6	1009.3	1235.6
138.5	209.9	345.4	530.5	687.9	852.9	1103.7
96.5	136.1	224.3	356.9	496.4	622.2	820.5
70.6	90.5	134.4	213.4	301.3	388.9	509.2
54.4	65.3	86.0	128.9	170.1	217.7	307.0
38.2	43.1	53.2	79.6	114.1	155.8	224.9
16.6	19.5	25.7	47.0	77.2	74.3	70.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)