

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: P145898

Luminaire Tested: **VPL-E01-LED-E1-CPL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145898
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-8030
Description: VALET LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2273.2 lumens
Efficiency: N/A
Efficacy: 92.0 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 - G1

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

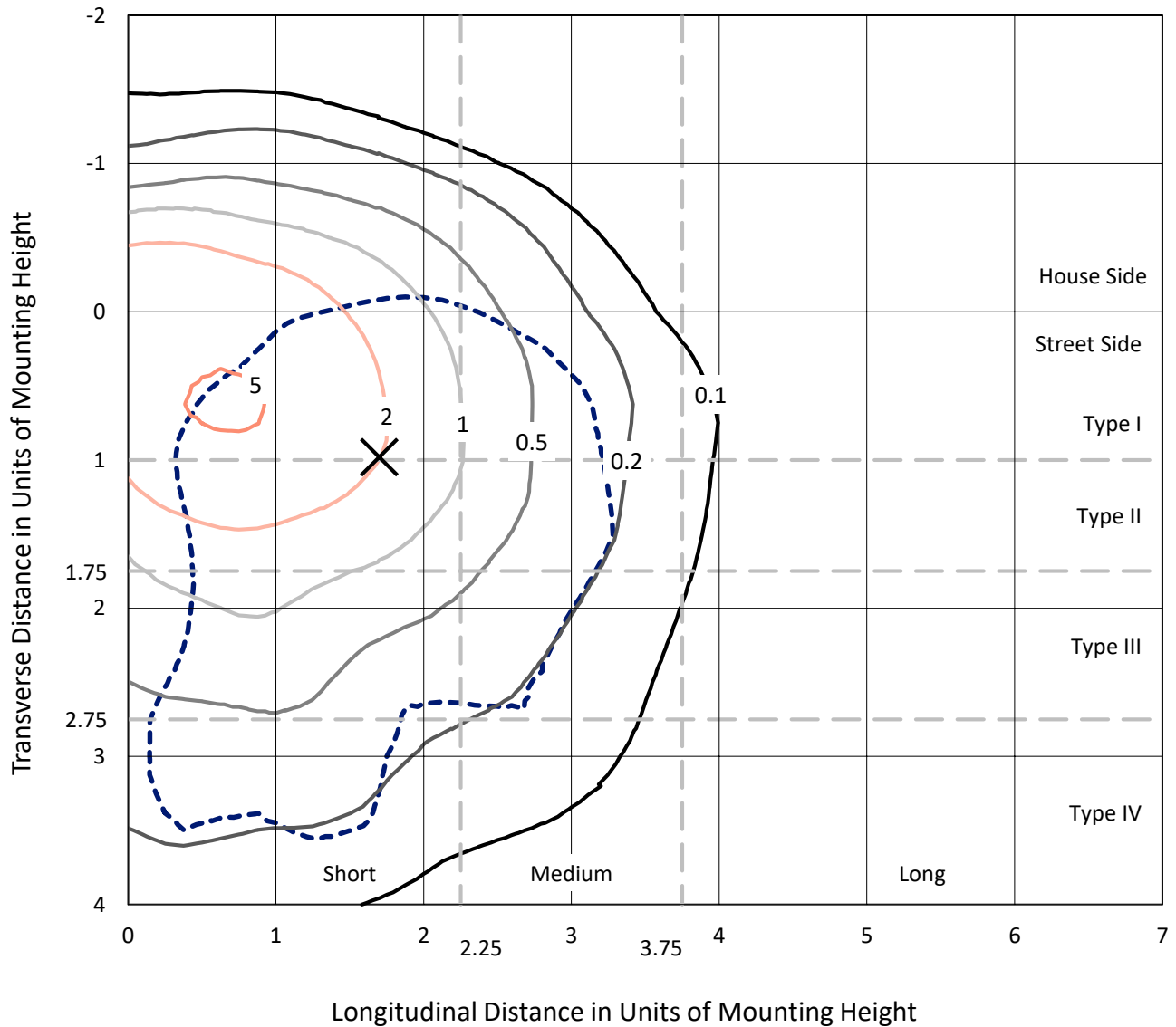


REPORT NUMBER: P145898

CATALOG NUMBER: VPL-E01-LED-E1-CPL-8030

Iso-Footcandle Lines of Horizontal Illumination

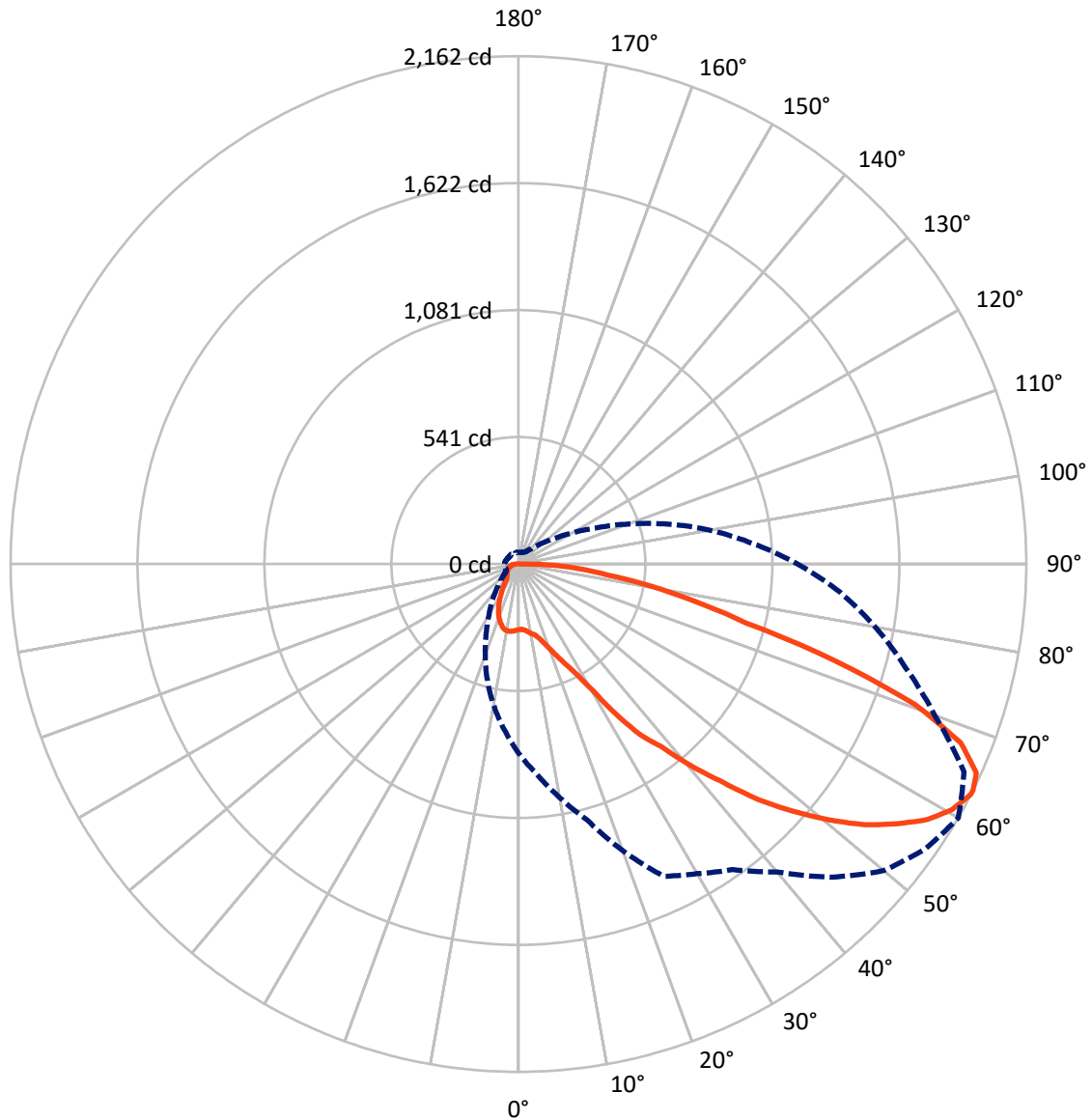
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P145898
CATALOG NUMBER: VPL-E01-LED-E1-CPL-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P145898

CATALOG NUMBER: VPL-E01-LED-E1-CPL-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	475.9	0.0	475.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	1797.4	0.0	1797.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	2273.2	0.0	2273.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	1.2
10°-20°	85.6	3.8
20°-30°	151.3	6.7
30°-40°	238.9	10.5
40°-50°	351.3	15.5
50°-60°	462.8	20.4
60°-70°	515.8	22.7
70°-80°	338.9	14.9
80°-90°	101.1	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°	2273.2	100.0
0°-180°	2273.2	100.0

Coefficient of Utilization



REPORT NUMBER: P145898

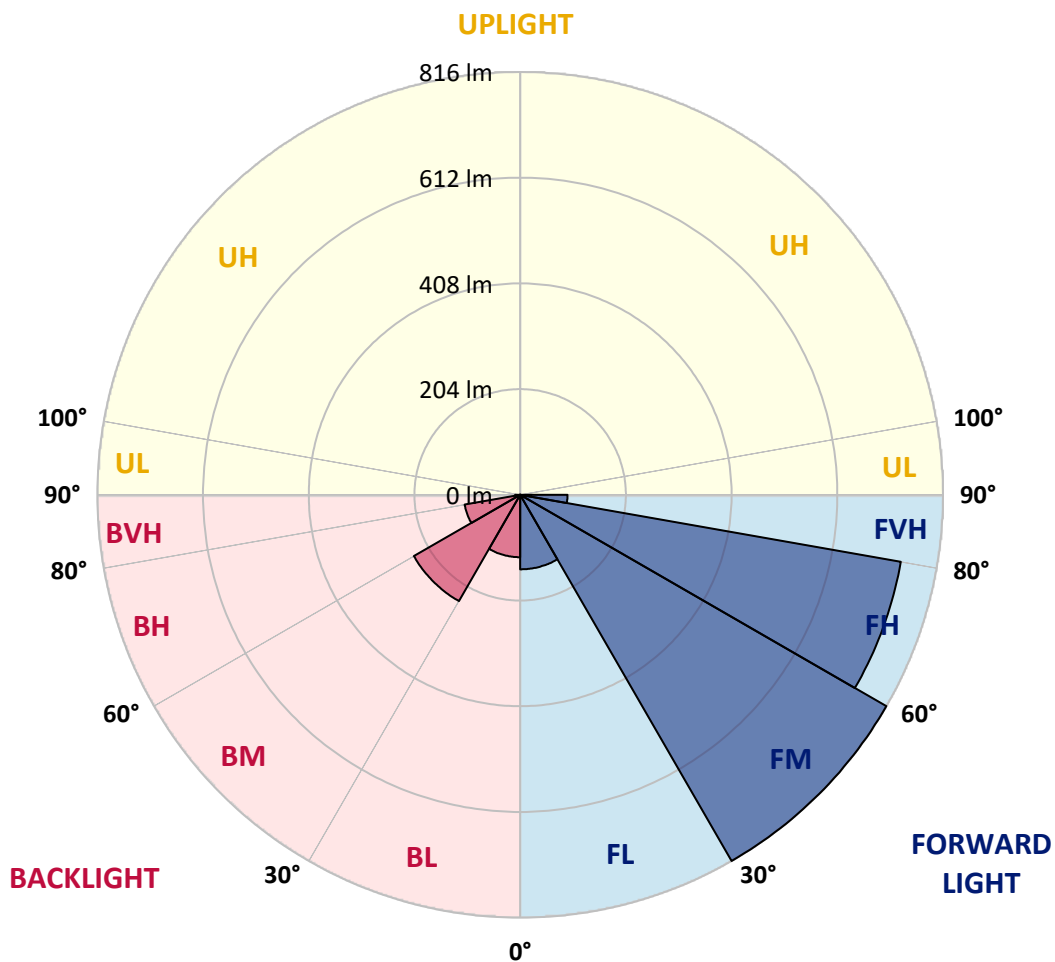
CATALOG NUMBER: VPL-E01-LED-E1-CPL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	143.9	6.3			
FM	(30°-60°)	816.2	35.9			
FH	(60°-80°)	746.0	32.8			G1/1800
FVH	(80°-90°)	91.3	4.0			G1/100
BL	(0°-30°)	120.5	5.3	B1/500		
BM	(30°-60°)	236.9	10.4	B1/1000		
BH	(60°-80°)	108.8	4.8	B0/110		G0/110
BVH	(80°-90°)	9.7	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P145898

CATALOG NUMBER: VPL-E01-LED-E1-CPL-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	278.9	279.0	278.5	278.3	278.0	278.2	278.2	277.8	277.8	278.0	277.5
5°	277.5	277.8	277.7	278.0	278.3	278.9	279.4	279.9	280.4	281.0	281.2
7.5°	276.0	277.0	277.2	278.2	279.4	280.7	282.4	284.3	286.8	287.5	289.0
10°	276.8	278.7	279.7	281.7	283.6	286.1	289.2	291.0	294.2	295.4	297.6
12.5°	283.4	284.8	286.1	288.5	291.2	294.4	297.8	300.6	304.0	305.2	306.0
15°	295.9	297.3	298.8	301.1	304.0	307.9	312.8	316.3	320.4	323.4	325.6
17.5°	313.3	313.3	316.8	317.5	323.1	329.0	335.1	342.0	346.2	348.7	352.8
20°	338.3	338.3	343.0	345.2	349.9	357.5	365.8	373.4	379.5	384.5	388.2
22.5°	381.5	379.6	383.7	383.2	388.9	400.2	408.3	412.5	420.6	423.7	428.6
25°	431.6	438.2	442.6	442.6	445.0	456.6	463.4	466.6	474.0	471.8	476.9
27.5°	493.1	510.8	527.2	533.9	530.7	543.5	545.9	548.9	548.1	542.9	541.3
30°	553.5	584.7	610.2	625.7	643.6	668.4	668.4	672.5	663.7	649.2	640.6
32.5°	595.4	635.5	674.5	706.8	737.1	775.1	791.2	813.4	817.2	822.7	803.5
35°	629.8	686.2	728.0	776.5	813.6	852.1	894.8	933.5	959.1	954.9	947.3
37.5°	653.4	725.8	784.2	841.1	897.7	941.7	982.2	1032.7	1081.8	1091.6	1071.0
40°	670.0	753.9	834.2	904.1	975.1	1041.3	1090.6	1144.8	1221.8	1254.3	1237.5
42.5°	677.9	775.8	865.4	954.4	1044.4	1127.9	1189.7	1264.0	1355.3	1411.0	1392.4
45°	681.3	789.3	890.7	992.0	1100.1	1203.2	1282.9	1367.1	1469.9	1559.4	1562.7
47.5°	680.4	796.6	908.1	1018.9	1143.8	1263.8	1370.6	1466.2	1582.7	1676.7	1711.6
50°	678.1	799.1	918.6	1035.1	1171.3	1308.2	1428.5	1542.1	1672.3	1791.3	1844.5
52.5°	677.9	799.6	923.8	1044.0	1187.5	1335.4	1464.8	1599.0	1741.7	1866.1	1948.9
55°	681.9	802.6	929.6	1050.3	1196.3	1350.7	1485.3	1634.6	1771.9	1913.2	2020.2
57.5°	698.3	816.8	943.2	1060.9	1206.1	1362.9	1501.1	1644.9	1780.8	1932.7	2061.5
60°	734.3	843.3	967.0	1080.5	1231.6	1394.8	1516.1	1630.4	1763.9	1927.2	2067.4
62.5°	790.3	885.9	1000.3	1116.6	1283.4	1455.4	1522.4	1597.2	1722.2	1895.1	2042.0
63°	804.7	897.2	1009.1	1126.6	1298.4	1466.9	1521.9	1588.4	1710.8	1885.6	2030.5
65°	864.6	949.5	1049.9	1174.2	1366.8	1503.3	1503.5	1536.7	1652.2	1833.5	1983.4
67.5°	954.7	1035.7	1113.4	1237.0	1442.4	1521.5	1449.0	1423.8	1525.9	1723.1	1863.9
70°	1014.8	1114.9	1158.5	1253.5	1452.7	1499.4	1362.7	1278.8	1363.6	1528.3	1653.4
72.5°	1016.3	1130.4	1143.1	1182.9	1356.3	1393.8	1214.2	1100.6	1151.5	1289.8	1355.6
75°	907.8	1051.3	1025.3	1010.6	1104.4	1120.5	982.1	934.8	1000.1	1081.8	1048.9
77.5°	674.9	865.6	812.8	750.3	784.4	786.8	791.2	880.3	960.5	993.9	945.9
80°	418.8	635.9	595.4	492.4	505.6	544.4	660.8	818.3	906.1	930.1	834.2
82.5°	252.5	467.7	446.1	375.7	392.3	489.0	617.8	661.4	690.9	688.7	589.6
85°	185.0	317.7	347.0	352.3	411.0	474.8	472.1	439.9	421.8	371.2	316.8
87.5°	58.2	163.9	194.5	226.7	248.3	235.0	231.1	199.7	143.0	120.9	132.8
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: P145898

CATALOG NUMBER: VPL-E01-LED-E1-CPL-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	277.5	278.2	278.5	278.3	278.5	278.5	279.5	279.2	279.5	279.4	280.4
5°	281.7	282.7	283.6	283.6	283.7	284.1	285.4	285.4	286.1	287.5	288.1
7.5°	290.0	291.3	291.5	291.9	292.9	292.4	293.2	293.5	294.0	294.7	295.6
10°	298.6	300.5	300.5	300.3	300.5	299.1	299.6	298.6	298.8	299.8	300.8
12.5°	308.2	309.2	308.6	308.1	308.1	305.5	305.2	303.8	303.2	303.3	303.7
15°	327.5	326.6	326.5	325.6	322.6	320.7	319.4	315.1	313.0	311.8	309.7
17.5°	353.1	353.6	352.8	351.9	347.6	341.3	338.6	334.1	331.0	328.0	324.3
20°	390.6	387.2	386.9	384.2	378.1	369.3	362.7	355.3	351.1	346.7	342.8
22.5°	432.0	428.4	426.0	420.8	411.9	400.7	389.8	380.3	373.9	370.7	368.0
25°	477.9	475.8	472.0	458.6	451.5	438.7	426.7	417.4	410.2	407.5	402.8
27.5°	532.9	534.4	527.2	514.7	505.7	487.7	477.4	461.3	455.2	445.5	439.4
30°	633.2	623.4	611.0	592.0	573.9	549.6	532.6	515.8	506.9	493.7	477.5
32.5°	797.1	759.8	726.7	686.2	647.8	616.8	592.1	571.0	557.4	535.6	508.1
35°	929.2	893.3	838.6	779.7	729.4	689.5	658.5	638.6	611.2	576.4	536.6
37.5°	1026.1	984.8	933.6	888.6	833.7	789.3	747.3	705.9	667.4	614.8	564.0
40°	1183.4	1127.4	1043.2	990.0	945.1	885.0	845.7	790.0	731.4	663.5	589.9
42.5°	1339.1	1264.8	1188.5	1127.4	1063.6	998.4	944.4	869.6	791.8	703.9	613.2
45°	1519.9	1428.9	1329.1	1243.7	1178.2	1101.6	1032.4	940.5	841.3	737.0	633.5
47.5°	1662.3	1572.2	1459.6	1373.5	1285.2	1198.8	1109.0	995.7	878.1	764.0	652.4
50°	1798.9	1712.0	1592.3	1486.6	1385.2	1280.8	1172.3	1034.9	907.0	785.1	667.4
52.5°	1921.4	1844.1	1714.8	1588.6	1475.1	1354.9	1220.4	1071.5	934.6	806.9	679.2
55°	2025.2	1952.8	1836.9	1679.7	1550.9	1417.9	1265.8	1105.0	963.8	829.6	687.9
57.5°	2095.0	2053.1	1929.2	1759.9	1613.2	1471.6	1300.1	1138.5	991.2	843.8	691.6
60°	2127.4	2121.8	2017.0	1832.3	1668.6	1513.4	1343.3	1174.2	1009.2	850.2	686.3
62.5°	2120.6	2160.4	2083.8	1881.9	1703.8	1539.6	1371.0	1189.5	1004.7	834.7	663.2
63°	2114.4	2162.1	2093.3	1886.8	1706.7	1542.1	1373.7	1187.7	1000.5	827.8	655.3
65°	2068.6	2142.2	2095.6	1878.0	1693.6	1534.9	1361.5	1158.5	958.4	784.2	610.4
67.5°	1956.5	2030.3	2004.5	1781.3	1608.3	1456.9	1276.6	1059.0	855.5	691.7	527.2
70°	1725.1	1791.1	1760.2	1563.9	1403.2	1295.9	1124.5	880.8	697.0	556.0	401.2
72.5°	1364.6	1411.0	1417.7	1261.8	1138.7	1074.2	905.9	664.4	509.1	387.2	260.5
75°	1010.4	999.6	1001.8	914.7	864.6	837.4	677.2	455.8	343.0	236.7	154.5
77.5°	849.2	771.6	705.4	681.3	622.9	606.0	446.6	279.7	200.2	141.6	87.9
80°	690.6	572.9	476.7	434.0	411.2	414.6	247.1	149.0	104.8	77.1	55.0
82.5°	472.1	382.7	301.8	262.1	258.1	262.0	128.5	73.1	55.4	44.4	34.6
85°	279.2	262.8	234.6	208.3	199.2	188.0	95.5	52.3	28.5	23.6	19.4
87.5°	120.7	148.2	151.7	151.1	140.6	112.9	35.1	13.5	12.0	6.1	4.9
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: P145898

CATALOG NUMBER: VPL-E01-LED-E1-CPL-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	280.4	280.5	280.2	280.5	281.7	281.7	281.6	281.9	282.1	283.1	282.7
5°	288.8	289.0	289.2	290.3	291.2	292.2	291.9	292.2	292.9	293.0	293.4
7.5°	296.6	297.6	298.9	299.4	301.0	301.3	302.8	303.0	303.3	302.7	302.0
10°	302.0	303.0	304.7	305.5	308.2	308.6	309.7	310.1	310.8	310.3	309.7
12.5°	304.7	305.5	307.4	309.1	312.8	314.0	316.0	317.2	318.0	317.5	315.8
15°	310.3	310.1	311.1	312.4	315.8	318.0	320.9	322.4	323.4	322.6	320.4
17.5°	323.1	320.7	320.7	319.9	322.4	322.9	324.1	324.9	324.6	322.1	318.5
20°	340.8	337.3	335.1	333.0	332.2	328.0	325.8	322.7	320.0	315.5	311.4
22.5°	363.8	361.2	356.2	351.6	345.2	336.6	327.3	319.4	313.5	307.2	300.3
25°	398.5	392.8	385.5	374.7	366.5	351.3	335.7	320.7	308.1	298.3	286.6
27.5°	431.3	419.1	405.5	388.6	373.4	353.1	333.4	316.0	299.4	283.7	270.4
30°	458.6	437.5	415.2	391.6	370.0	345.5	322.6	302.8	284.1	265.5	252.9
32.5°	479.2	448.8	419.1	388.9	362.2	333.5	307.2	286.1	264.8	245.3	230.6
35°	497.8	456.8	417.9	381.7	350.1	318.4	290.0	266.4	243.1	222.1	205.3
37.5°	511.1	459.5	412.9	371.2	334.6	299.8	269.1	243.9	218.9	197.7	179.1
40°	521.4	458.1	403.3	355.2	313.3	277.2	247.1	220.8	195.8	174.5	155.1
42.5°	528.3	453.1	388.7	336.9	295.6	257.8	228.4	200.7	175.7	153.4	132.0
45°	537.3	451.0	379.8	323.2	279.5	241.4	210.0	183.0	157.0	133.7	113.3
47.5°	545.7	449.8	372.5	311.9	265.0	226.5	195.5	167.1	140.9	118.2	99.6
50°	550.8	448.0	364.9	298.3	248.8	211.3	181.6	152.9	126.6	104.8	88.3
52.5°	552.3	444.3	355.0	282.7	234.8	198.3	167.4	138.8	113.4	93.9	78.5
55°	551.1	437.0	341.5	270.1	220.5	184.0	153.1	125.2	102.3	83.9	71.6
57.5°	545.4	422.5	324.1	254.0	204.1	165.9	135.5	110.1	89.6	74.9	65.5
60°	532.6	401.6	302.8	231.6	180.6	144.5	115.8	93.9	76.6	66.0	59.8
62.5°	504.5	371.4	271.9	199.9	149.2	116.0	91.0	74.8	63.1	57.6	53.8
63°	496.3	360.9	262.8	191.4	143.8	109.6	85.4	70.7	60.3	55.7	52.7
65°	452.7	312.6	222.1	153.9	111.4	83.0	65.2	55.5	50.0	48.3	47.4
67.5°	371.0	243.2	156.3	103.3	74.8	57.4	48.1	44.4	42.4	42.2	42.7
70°	262.1	161.4	96.7	66.2	51.5	43.4	39.8	38.1	37.1	37.5	38.5
72.5°	170.5	94.7	61.1	48.4	41.9	38.1	35.6	35.1	34.8	34.4	34.8
75°	90.1	59.2	46.3	40.5	36.6	33.6	31.9	31.2	31.4	31.4	31.4
77.5°	55.9	45.1	39.5	35.8	32.7	29.7	28.0	27.5	27.7	28.0	28.2
80°	42.9	39.3	34.8	32.1	27.7	25.2	24.3	24.1	24.5	24.5	25.0
82.5°	31.4	30.4	28.7	25.3	21.9	20.3	20.1	20.8	20.1	19.9	20.3
85°	18.4	17.2	18.7	16.0	14.7	13.7	14.3	15.7	16.4	15.5	15.2
87.5°	5.9	4.1	5.9	6.6	5.9	5.1	6.4	7.6	7.8	7.4	8.4
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: P145898

CATALOG NUMBER: VPL-E01-LED-E1-CPL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	282.6	283.7	282.6	283.1	282.9	282.6	283.1	282.4	282.1	283.1	282.9
5°	293.2	293.4	291.9	292.0	291.9	290.5	290.5	289.8	289.0	289.2	288.8
7.5°	301.8	301.5	300.3	299.8	298.3	297.3	296.6	295.6	294.9	294.2	293.9
10°	308.4	307.6	306.7	305.2	303.7	302.8	301.0	299.4	298.9	297.9	297.3
12.5°	314.1	312.6	311.3	309.4	307.6	306.2	304.0	302.8	302.0	300.6	299.6
15°	317.3	314.5	311.9	309.1	307.0	305.0	302.5	302.0	300.8	299.4	297.6
17.5°	313.5	309.4	304.7	301.6	298.6	295.6	293.0	293.0	292.5	291.0	287.8
20°	305.5	299.4	293.9	289.0	285.9	281.6	280.0	277.7	276.0	273.3	269.2
22.5°	292.5	286.1	278.9	274.0	268.7	263.8	260.8	257.1	255.7	251.3	245.9
25°	278.0	268.7	261.0	254.5	247.3	241.6	237.3	232.3	228.9	224.7	217.9
27.5°	260.8	251.2	242.4	235.3	227.7	219.8	212.0	206.1	200.0	195.1	191.2
30°	242.2	232.3	221.5	213.2	204.4	194.5	188.0	180.1	175.4	170.0	164.9
32.5°	217.9	209.1	196.5	186.9	176.1	168.3	163.1	155.5	149.9	145.3	142.5
35°	191.2	178.1	165.4	158.2	150.7	144.5	137.2	131.3	127.6	122.9	120.4
37.5°	162.2	146.9	136.1	129.6	122.0	119.0	114.4	110.9	107.5	104.3	102.3
40°	136.2	122.0	112.3	106.8	101.8	98.4	95.5	94.0	91.8	89.3	87.8
42.5°	114.6	103.3	93.7	88.6	84.7	84.4	82.5	81.4	80.5	79.0	76.6
45°	97.7	87.4	79.2	75.1	73.4	73.6	73.6	72.6	72.6	72.1	70.6
47.5°	86.4	77.1	71.1	68.4	67.7	67.9	67.4	67.0	67.2	67.0	66.2
50°	77.6	69.7	64.6	63.6	63.5	63.3	62.6	62.1	61.9	62.3	62.1
52.5°	68.7	62.1	59.2	58.9	59.1	59.1	58.9	58.7	59.1	59.4	58.9
55°	63.6	58.9	57.1	57.1	57.1	57.1	56.9	56.7	57.2	57.7	56.9
57.5°	58.9	55.5	54.9	54.9	54.9	54.5	54.5	54.7	55.4	56.4	55.4
60°	55.4	53.7	53.7	53.8	53.7	53.0	52.5	52.5	53.3	54.7	53.8
62.5°	52.0	51.1	51.5	51.3	51.0	50.1	49.5	49.5	50.5	51.8	52.2
63°	51.1	50.5	50.8	50.6	50.3	49.6	49.0	49.0	49.8	51.1	51.7
65°	47.4	47.6	47.8	47.9	47.8	47.6	46.8	46.4	47.1	48.1	48.8
67.5°	43.0	43.4	43.7	44.6	44.2	44.2	43.7	43.4	43.5	44.1	44.6
70°	39.0	39.3	39.8	40.2	40.3	40.5	40.2	39.7	39.8	40.0	40.3
72.5°	35.1	35.4	35.8	36.5	36.5	36.5	36.1	35.8	36.0	36.3	36.6
75°	31.6	31.7	32.1	32.6	32.7	32.4	32.4	32.1	32.2	32.7	33.1
77.5°	28.0	27.7	27.9	28.2	28.7	28.7	28.9	28.7	29.0	29.4	29.7
80°	24.0	23.6	23.3	23.5	24.1	25.0	25.8	25.8	26.3	26.5	27.0
82.5°	19.1	18.7	18.6	19.1	18.9	20.1	21.9	23.0	23.6	24.3	24.6
85°	14.9	14.0	14.3	14.3	14.0	15.9	17.6	18.9	19.1	20.1	20.3
87.5°	8.8	8.4	8.1	7.8	8.9	10.8	12.3	12.8	13.2	13.7	14.2
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: P145898

CATALOG NUMBER: VPL-E01-LED-E1-CPL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	281.6	282.9	282.6	282.4	282.6	282.4	281.9	282.1	281.7	281.9	281.6
5°	287.0	287.6	287.1	286.3	286.3	285.1	284.3	283.6	282.7	282.4	281.7
7.5°	292.2	291.7	291.0	289.5	288.6	287.1	285.9	284.6	283.7	282.7	281.6
10°	295.4	294.4	293.0	291.2	288.8	287.5	285.8	283.7	282.7	282.2	281.0
12.5°	296.9	294.2	292.0	288.6	285.3	282.7	280.9	278.9	278.3	277.7	276.8
15°	293.4	289.5	283.9	279.4	275.0	271.4	269.9	267.7	267.2	267.0	266.9
17.5°	281.4	275.5	270.1	264.0	260.1	256.9	255.6	255.1	254.2	253.9	254.0
20°	262.1	257.1	251.7	249.7	245.1	244.3	242.2	240.9	239.4	238.8	238.0
22.5°	239.7	233.4	230.1	228.6	226.7	222.3	221.3	219.9	217.9	216.4	216.1
25°	213.5	208.5	208.3	204.8	203.2	200.9	198.2	196.5	195.3	193.4	192.1
27.5°	186.9	185.0	181.8	179.1	178.1	176.7	172.7	171.8	170.5	169.0	167.4
30°	162.0	160.7	157.7	155.1	153.6	150.9	147.0	147.4	144.7	142.6	141.3
32.5°	137.9	136.9	134.0	133.4	128.5	127.1	123.1	120.0	117.3	115.3	113.6
35°	116.1	113.4	113.6	110.6	107.9	103.8	99.6	95.7	93.5	92.5	91.0
37.5°	100.4	97.9	95.4	92.0	89.0	86.1	83.6	82.4	81.0	81.4	81.5
40°	86.3	84.4	82.5	80.2	78.3	77.1	76.5	76.5	76.6	77.5	78.2
42.5°	76.1	74.6	73.6	72.8	73.1	73.1	73.6	74.4	75.3	76.5	77.1
45°	69.4	68.5	68.2	68.5	69.5	70.4	71.6	72.9	74.3	75.5	76.0
47.5°	65.3	64.8	64.8	65.7	67.2	68.5	70.4	71.7	73.3	74.3	74.6
50°	60.9	60.8	60.8	61.4	62.8	64.5	66.3	67.7	69.0	69.9	70.2
52.5°	58.4	57.9	57.7	58.6	59.8	61.4	63.3	64.6	65.7	66.3	66.5
55°	56.2	55.7	55.4	56.4	57.7	59.2	61.4	63.0	64.0	64.8	65.5
57.5°	54.4	53.8	53.5	54.7	56.0	57.9	59.8	61.4	62.8	63.8	64.5
60°	52.8	52.2	51.8	53.2	54.5	56.4	58.2	60.1	61.9	63.1	63.5
62.5°	51.0	50.5	50.0	50.8	51.5	52.8	54.5	56.4	58.1	59.2	59.2
63°	50.5	50.3	49.6	50.3	51.0	52.2	53.8	55.5	57.2	58.6	58.4
65°	48.3	48.3	47.9	48.6	49.3	50.5	51.8	53.7	55.2	56.2	56.4
67.5°	44.7	44.9	45.2	45.9	47.3	48.4	50.0	51.7	53.0	53.7	54.0
70°	40.7	41.0	41.7	42.7	43.9	44.9	45.9	47.6	48.8	49.5	49.8
72.5°	36.8	37.6	38.1	39.0	39.7	40.7	41.5	43.2	44.2	44.7	45.6
75°	33.3	33.9	34.3	34.8	35.4	35.8	36.8	37.5	38.8	39.5	40.5
77.5°	29.9	30.2	30.7	31.6	31.7	32.2	32.6	33.6	34.3	34.9	35.8
80°	26.8	27.2	27.9	28.4	28.5	28.9	29.0	28.9	28.7	28.2	28.9
82.5°	24.1	24.5	25.3	25.8	26.3	26.3	26.2	24.3	23.5	23.8	24.3
85°	19.9	20.3	21.1	22.1	22.3	22.1	22.3	20.4	19.2	18.7	19.2
87.5°	12.5	12.2	15.0	16.4	15.4	15.7	15.9	14.9	13.8	11.8	12.3
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: P145898
 CATALOG NUMBER: VPL-E01-LED-E1-CPL-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	0°
2.5°	281.9	280.7	280.9	281.2	281.2	281.7	281.0	280.2	280.7	279.9	279.7	2.5°
5°	281.7	280.2	280.2	280.5	280.2	280.5	280.0	279.2	279.7	278.7	278.5	5°
7.5°	281.0	280.2	280.5	280.9	280.4	280.5	280.4	279.2	279.4	278.9	277.7	7.5°
10°	280.7	280.2	280.9	281.9	281.9	282.1	281.6	280.2	279.4	278.9	277.8	10°
12.5°	277.2	277.8	279.2	281.6	282.4	283.7	284.4	283.7	284.1	283.4	283.1	12.5°
15°	267.0	268.7	270.9	274.5	277.0	280.0	283.7	285.4	288.6	291.2	292.9	15°
17.5°	254.9	256.1	258.4	262.5	265.7	271.8	276.8	282.6	288.8	295.6	301.5	17.5°
20°	239.9	239.0	242.7	247.1	252.7	259.4	266.9	275.5	285.8	296.6	306.9	20°
22.5°	217.7	217.7	221.6	226.9	233.6	241.4	251.7	261.0	274.5	290.2	305.4	22.5°
25°	192.4	192.9	195.6	201.5	206.3	217.4	227.0	239.0	255.2	272.4	292.7	25°
27.5°	165.4	168.8	168.1	174.4	180.6	191.6	204.8	216.9	235.0	253.4	276.5	27.5°
30°	140.9	140.4	140.3	147.7	153.9	163.9	174.7	190.1	208.3	231.9	258.6	30°
32.5°	110.6	112.4	113.8	118.2	124.9	134.2	145.8	161.9	183.8	207.6	237.7	32.5°
35°	91.3	91.8	93.7	96.2	102.1	109.9	122.0	136.2	155.5	180.1	212.0	35°
37.5°	81.9	82.4	84.4	86.8	91.0	96.7	105.0	116.0	133.7	156.6	186.4	37.5°
40°	78.8	79.3	80.5	82.7	86.6	91.5	98.1	106.5	119.3	137.2	163.2	40°
42.5°	77.5	77.5	77.6	79.3	83.2	89.0	96.0	103.6	113.1	126.6	147.7	42.5°
45°	76.0	76.0	75.8	77.0	80.0	86.6	95.2	104.5	114.8	126.4	143.0	45°
47.5°	74.6	74.3	73.9	74.4	77.0	83.7	93.7	105.0	118.2	132.7	149.4	47.5°
50°	69.9	69.9	69.7	69.9	72.2	79.3	90.8	104.5	121.2	139.9	160.2	50°
52.5°	66.5	66.7	66.8	66.8	68.7	76.0	88.6	104.7	124.6	147.0	172.7	52.5°
55°	65.7	66.0	66.0	65.7	67.2	73.8	86.6	104.1	126.9	155.0	186.0	55°
57.5°	64.6	64.8	65.0	64.6	65.7	71.4	83.7	101.8	126.3	158.0	196.0	57.5°
60°	63.3	62.6	62.5	61.9	62.6	67.2	78.7	96.7	122.2	156.6	199.4	60°
62.5°	59.6	59.1	58.6	58.1	58.6	61.9	73.1	90.5	115.5	151.2	196.6	62.5°
63°	58.7	58.4	57.9	57.4	57.4	61.1	71.2	89.0	113.8	149.7	195.6	63°
65°	56.4	56.2	55.9	55.4	55.2	58.1	67.0	82.0	105.8	143.0	189.2	65°
67.5°	53.7	53.7	53.5	52.8	52.0	53.7	59.9	71.7	92.0	125.6	173.4	67.5°
70°	49.8	49.8	49.6	49.3	48.3	49.5	53.5	61.3	75.8	102.6	145.3	70°
72.5°	45.9	45.9	46.4	46.3	46.4	46.6	48.6	52.8	61.6	79.8	109.9	72.5°
75°	40.8	41.7	41.9	42.2	42.4	42.2	43.2	45.7	50.8	61.3	80.2	75°
77.5°	36.6	37.8	37.6	37.3	37.1	37.3	37.1	38.3	42.0	48.6	59.4	77.5°
80°	30.2	31.4	31.4	31.2	30.9	31.2	30.9	32.1	35.1	40.8	47.3	80°
82.5°	24.8	25.7	26.2	26.5	26.2	27.5	27.5	27.2	29.5	34.6	39.8	82.5°
85°	19.9	20.8	21.3	21.9	22.3	21.9	21.8	21.4	22.8	26.8	30.4	85°
87.5°	12.7	13.3	13.3	13.5	13.5	14.0	13.0	11.8	10.8	15.4	16.0	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: P145898

NUMBER: VPL-E01-LED-E1-CPL-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
279.2	279.2	279.2	279.2	279.2	279.2	279.2
279.2	279.2	279.4	278.9	279.4	279.4	278.9
278.0	277.7	277.7	277.5	277.8	277.7	277.5
277.0	277.0	276.3	275.8	275.6	276.3	276.0
276.7	276.3	276.2	275.8	276.0	276.5	276.8
282.7	281.6	281.9	281.7	281.9	282.4	283.4
293.9	293.9	294.7	292.9	293.7	294.6	295.9
306.4	309.4	310.9	310.8	311.1	311.8	313.3
317.0	326.6	333.4	335.1	339.6	340.6	338.3
321.7	338.9	354.1	364.3	375.6	380.1	381.5
312.1	336.9	361.9	385.2	407.5	420.3	431.6
302.1	331.5	364.8	399.5	435.8	468.6	493.1
288.3	327.1	372.0	419.0	467.1	512.6	553.5
273.1	320.0	372.7	429.8	489.2	545.9	595.4
251.3	303.5	361.9	428.1	496.9	568.0	629.8
226.4	277.2	342.7	418.3	496.4	579.3	653.4
199.7	251.7	320.5	401.6	489.9	582.9	670.0
179.6	231.1	298.6	385.7	480.1	580.5	677.9
169.3	213.4	280.7	370.2	469.1	574.8	681.3
171.3	208.6	270.1	357.3	459.3	568.5	680.4
182.6	215.7	269.9	352.6	453.1	562.8	678.1
199.7	231.8	279.7	358.2	456.4	562.3	677.9
218.9	254.2	303.3	373.2	470.8	571.4	681.9
237.5	281.6	333.7	406.8	498.0	594.2	698.3
248.5	306.5	372.7	454.2	539.8	634.2	734.3
251.0	321.6	407.3	500.8	597.2	692.1	790.3
250.8	323.1	413.2	510.4	608.9	705.4	804.7
247.0	326.1	429.1	542.2	655.6	762.6	864.6
234.8	320.7	437.9	571.7	702.0	825.8	954.7
206.9	296.1	427.6	581.3	729.7	867.6	1014.8
162.0	244.3	369.2	531.4	692.2	830.1	1016.3
113.9	172.7	284.1	436.3	565.8	701.5	907.8
79.3	111.9	184.5	293.5	408.3	511.8	674.9
58.1	74.4	110.6	175.6	247.8	319.9	418.8
44.7	53.7	70.7	106.0	139.9	179.1	252.5
31.4	35.4	43.7	65.5	93.9	128.1	185.0
13.7	16.0	21.1	38.7	63.5	61.1	58.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)