

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: P145908

Luminaire Tested: **VPL-E02-LED-E1-CPL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145908
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-E02-LED-E1-CPL-8030
Description: VALET LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4546.5 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

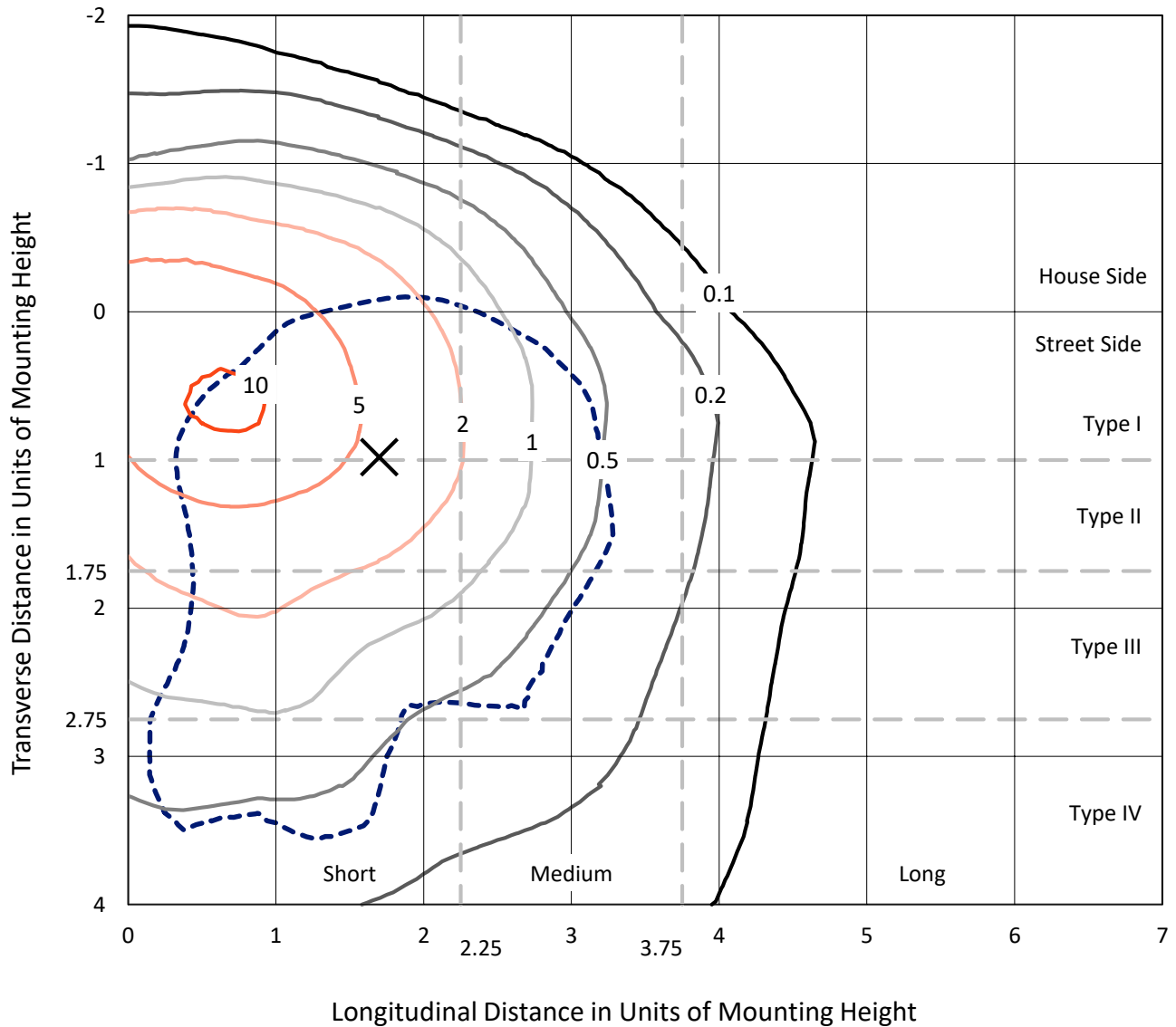
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

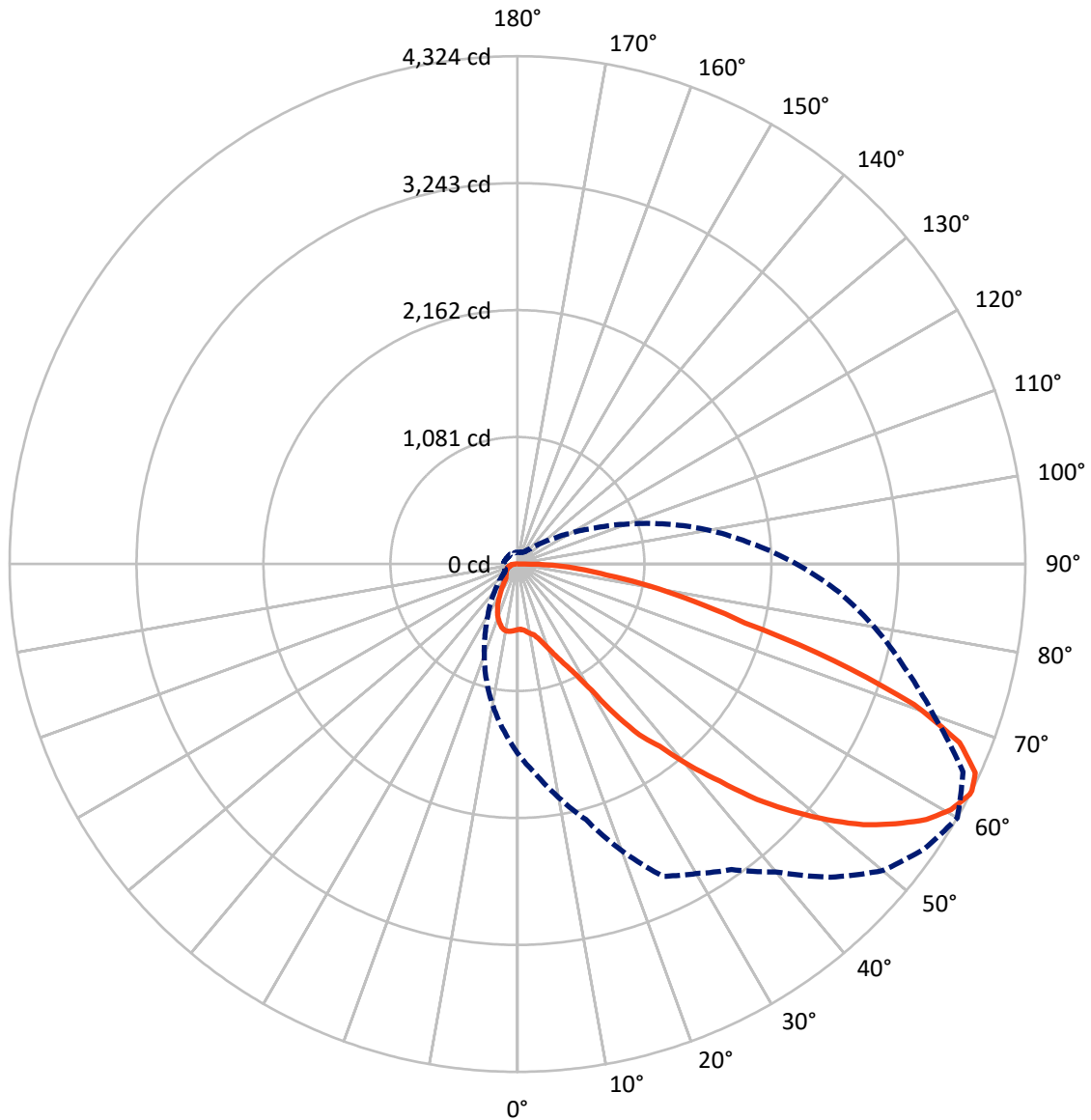
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	951.7	0.0	951.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3594.8	0.0	3594.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	4546.5	0.0	4546.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.2
10°-20°	171.2	3.8
20°-30°	302.7	6.7
30°-40°	477.8	10.5
40°-50°	702.7	15.5
50°-60°	925.6	20.4
60°-70°	1031.7	22.7
70°-80°	677.8	14.9
80°-90°	202.1	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°	4546.5	100.0
0°-180°	4546.5	100.0

Coefficient of Utilization



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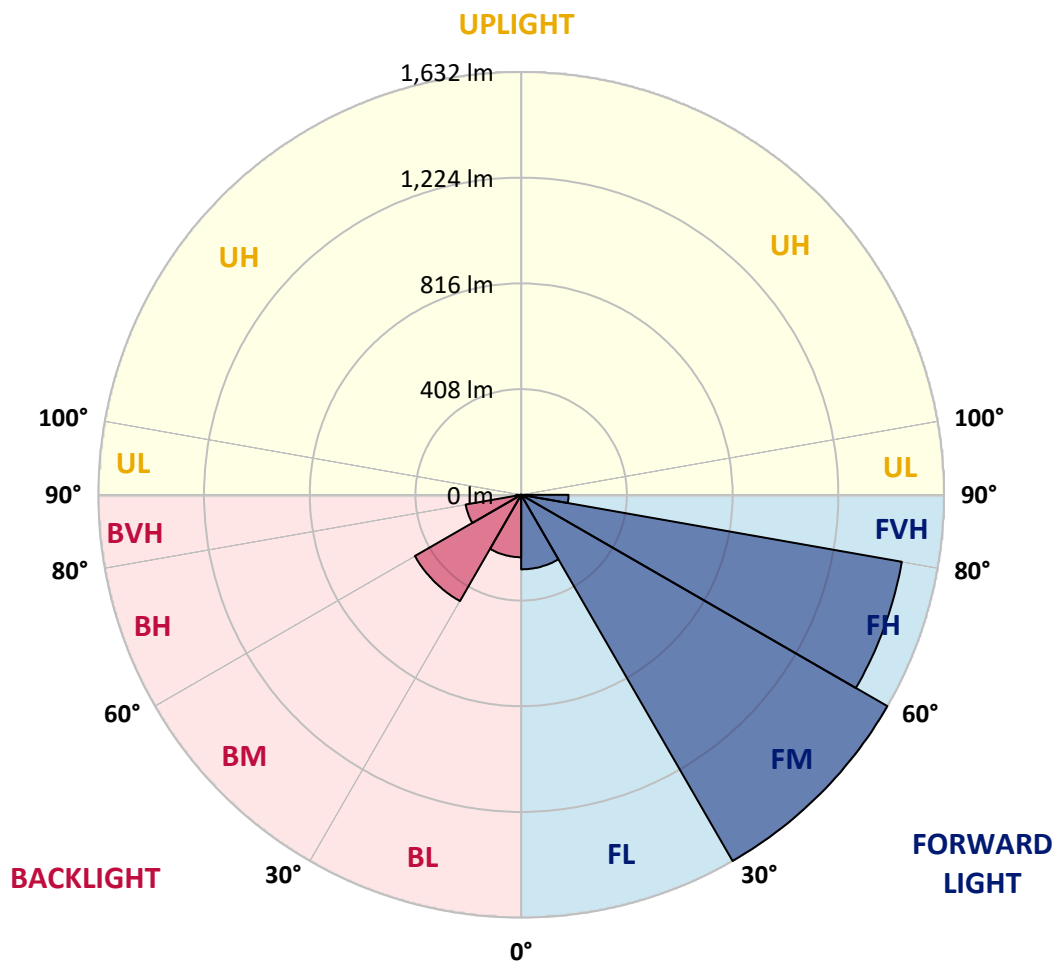
CATALOG NUMBER: VPL-E02-LED-E1-CPL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.8	6.3			
FM	(30°-60°)	1632.3	35.9			
FH	(60°-80°)	1492.0	32.8			G1/1800
FVH	(80°-90°)	182.7	4.0			G2/225
BL	(0°-30°)	240.9	5.3	B1/500		
BM	(30°-60°)	473.8	10.4	B1/1000		
BH	(60°-80°)	217.5	4.8	B1/500		G1/500
BVH	(80°-90°)	19.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	557.7	558.0	557.0	556.7	556.0	556.4	556.4	555.7	555.7	556.0	555.0
5°	555.0	555.7	555.3	556.0	556.7	557.7	558.7	559.7	560.7	562.1	562.4
7.5°	552.0	554.0	554.3	556.4	558.7	561.4	564.8	568.5	573.6	574.9	578.0
10°	553.7	557.4	559.4	563.4	567.2	572.2	578.3	582.0	588.4	590.8	595.2
12.5°	566.8	569.5	572.2	577.0	582.4	588.8	595.5	601.3	608.0	610.4	612.1
15°	591.8	594.5	597.5	602.3	608.0	615.8	625.6	632.7	640.8	646.8	651.2
17.5°	626.6	626.6	633.7	635.0	646.2	658.0	670.1	684.0	692.4	697.5	705.6
20°	676.5	676.5	686.0	690.4	699.8	715.0	731.6	746.8	758.9	769.0	776.5
22.5°	763.0	759.3	767.4	766.3	777.8	800.4	816.6	825.1	841.3	847.4	857.2
25°	863.2	876.4	885.2	885.2	889.9	913.2	926.7	933.1	948.0	943.6	953.7
27.5°	986.1	1021.6	1054.3	1067.8	1061.4	1087.1	1091.8	1097.9	1096.2	1085.7	1082.7
30°	1107.0	1169.4	1220.4	1251.5	1287.3	1336.9	1336.9	1345.0	1327.4	1298.4	1281.2
32.5°	1190.7	1271.1	1349.0	1413.5	1474.3	1550.2	1582.3	1626.9	1634.3	1645.4	1607.0
35°	1259.6	1372.3	1456.1	1552.9	1627.2	1704.2	1789.6	1866.9	1918.2	1909.8	1894.6
37.5°	1306.8	1451.7	1568.5	1682.2	1795.3	1883.5	1964.5	2065.4	2163.7	2183.2	2142.0
40°	1339.9	1507.7	1668.4	1808.2	1950.3	2082.6	2181.2	2289.6	2443.5	2508.7	2474.9
42.5°	1355.8	1551.6	1730.9	1908.8	2088.7	2255.8	2379.4	2527.9	2710.6	2822.0	2784.8
45°	1362.5	1578.6	1781.5	1984.1	2200.1	2406.4	2565.7	2734.2	2939.8	3118.7	3125.5
47.5°	1360.9	1593.1	1816.3	2037.7	2287.6	2527.6	2741.3	2932.4	3165.3	3353.3	3423.2
50°	1356.1	1598.2	1837.2	2070.1	2342.6	2616.4	2857.1	3084.3	3344.6	3582.6	3688.9
52.5°	1355.8	1599.2	1847.7	2088.0	2375.0	2670.7	2929.7	3198.1	3483.3	3732.1	3897.9
55°	1363.9	1605.3	1859.1	2100.5	2392.5	2701.4	2970.5	3269.3	3543.7	3826.3	4040.4
57.5°	1396.6	1633.6	1886.5	2121.8	2412.1	2725.8	3002.2	3289.9	3561.6	3865.5	4123.1
60°	1468.5	1686.6	1934.1	2161.0	2463.1	2789.6	3032.3	3260.8	3527.9	3854.3	4134.9
62.5°	1580.6	1771.7	2000.6	2233.2	2566.7	2910.8	3044.8	3194.3	3444.5	3790.2	4083.9
63°	1609.3	1794.3	2018.2	2253.1	2596.8	2933.7	3043.8	3176.8	3421.5	3771.3	4060.9
65°	1729.2	1899.0	2099.8	2348.3	2733.5	3006.6	3007.0	3073.5	3304.4	3667.0	3966.8
67.5°	1909.4	2071.5	2226.8	2473.9	2884.8	3043.1	2897.9	2847.6	3051.9	3446.2	3727.7
70°	2029.6	2229.8	2316.9	2507.0	2905.4	2998.9	2725.4	2557.6	2727.1	3056.6	3306.8
72.5°	2032.7	2260.9	2286.2	2365.9	2712.6	2787.5	2428.3	2201.1	2303.1	2579.6	2711.2
75°	1815.6	2102.6	2050.6	2021.2	2208.9	2241.0	1964.1	1869.6	2000.3	2163.7	2097.8
77.5°	1349.7	1731.2	1625.5	1500.6	1568.8	1573.5	1582.3	1760.6	1920.9	1987.8	1891.9
80°	837.6	1271.7	1190.7	984.8	1011.1	1088.7	1321.7	1636.7	1812.2	1860.2	1668.4
82.5°	505.0	935.5	892.3	751.5	784.6	978.0	1235.6	1322.7	1381.8	1377.4	1179.2
85°	370.0	635.4	694.1	704.6	822.0	949.7	944.3	879.8	843.7	742.4	633.7
87.5°	116.5	327.8	388.9	453.4	496.6	469.9	462.2	399.4	285.9	241.7	265.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	555.0	556.4	557.0	556.7	557.0	557.0	559.1	558.4	559.1	558.7	560.7
5°	563.4	565.5	567.2	567.2	567.5	568.2	570.9	570.9	572.2	574.9	576.3
7.5°	580.0	582.7	583.0	583.7	585.7	584.7	586.4	587.1	588.1	589.4	591.1
10°	597.2	600.9	600.9	600.6	600.9	598.2	599.2	597.2	597.5	599.6	601.6
12.5°	616.5	618.5	617.1	616.1	616.1	611.0	610.4	607.7	606.3	606.7	607.3
15°	654.9	653.2	652.9	651.2	645.1	641.4	638.7	630.3	625.9	623.5	619.5
17.5°	706.3	707.3	705.6	703.9	695.1	682.6	677.2	668.1	662.0	655.9	648.5
20°	781.2	774.4	773.8	768.4	756.2	738.7	725.5	710.6	702.2	693.4	685.7
22.5°	863.9	856.8	852.1	841.6	823.7	801.5	779.5	760.6	747.8	741.4	736.0
25°	955.7	951.7	943.9	917.2	903.1	877.4	853.4	834.9	820.4	815.0	805.5
27.5°	1065.8	1068.8	1054.3	1029.3	1011.4	975.3	954.7	922.7	910.5	890.9	878.8
30°	1266.3	1246.7	1222.1	1184.0	1147.8	1099.2	1065.1	1031.7	1013.8	987.5	955.1
32.5°	1594.1	1519.5	1453.4	1372.3	1295.7	1233.6	1184.3	1142.1	1114.7	1071.2	1016.2
35°	1858.5	1786.6	1677.2	1559.4	1458.8	1379.1	1317.0	1277.1	1222.4	1152.9	1073.2
37.5°	2052.2	1969.5	1867.2	1777.1	1667.4	1578.6	1494.5	1411.8	1334.9	1229.5	1127.9
40°	2366.9	2254.8	2086.3	1980.0	1890.2	1770.0	1691.4	1580.0	1462.8	1327.1	1179.9
42.5°	2678.2	2529.6	2377.0	2254.8	2127.2	1996.9	1888.9	1739.3	1583.7	1407.8	1226.5
45°	3039.7	2857.8	2658.2	2487.4	2356.4	2203.2	2064.7	1881.1	1682.6	1473.9	1267.0
47.5°	3324.6	3144.4	2919.2	2747.0	2570.5	2397.6	2218.0	1991.5	1756.2	1528.0	1304.8
50°	3597.8	3423.9	3184.5	2973.2	2770.3	2561.7	2344.6	2069.8	1813.9	1570.2	1334.9
52.5°	3842.9	3688.2	3429.6	3177.1	2950.3	2709.9	2440.8	2143.1	1869.3	1613.7	1358.5
55°	4050.5	3905.7	3673.7	3359.4	3101.8	2835.8	2531.6	2209.9	1927.7	1659.3	1375.7
57.5°	4189.9	4106.2	3858.4	3519.8	3226.4	2943.2	2600.2	2277.1	1982.4	1687.6	1383.1
60°	4254.7	4243.6	4033.9	3664.6	3337.1	3026.9	2686.6	2348.3	2018.5	1700.5	1372.7
62.5°	4241.2	4320.9	4167.6	3763.9	3407.7	3079.2	2742.0	2379.0	2009.4	1669.4	1326.4
63°	4228.7	4324.3	4186.5	3773.7	3413.4	3084.3	2747.4	2375.3	2000.9	1655.6	1310.5
65°	4137.2	4284.4	4191.3	3756.1	3387.1	3069.8	2723.1	2316.9	1916.9	1568.5	1220.7
67.5°	3913.1	4060.6	4009.0	3562.7	3216.6	2913.8	2553.2	2118.1	1710.9	1383.5	1054.3
70°	3450.2	3582.2	3520.5	3127.8	2806.4	2591.7	2249.1	1761.6	1393.9	1112.0	802.5
72.5°	2729.1	2822.0	2835.5	2523.5	2277.4	2148.5	1811.9	1328.8	1018.2	774.4	520.9
75°	2020.9	1999.2	2003.6	1829.4	1729.2	1674.8	1354.4	911.5	686.0	473.3	308.9
77.5°	1698.4	1543.2	1410.8	1362.5	1245.7	1212.0	893.3	559.4	400.4	283.2	175.9
80°	1381.1	1145.8	953.4	868.0	822.4	829.1	494.2	298.1	209.6	154.3	110.1
82.5°	944.3	765.3	603.6	524.3	516.2	523.9	256.9	146.2	110.7	88.8	69.2
85°	558.4	525.6	469.3	416.6	398.4	376.1	191.1	104.7	57.1	47.3	38.8
87.5°	241.4	296.4	303.5	302.1	281.2	225.9	70.2	27.0	24.0	12.2	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	560.7	561.1	560.4	561.1	563.4	563.4	563.1	563.8	564.1	566.1	565.5
5°	577.6	578.0	578.3	580.7	582.4	584.4	583.7	584.4	585.7	586.1	586.7
7.5°	593.2	595.2	597.9	598.9	601.9	602.6	605.6	606.0	606.7	605.3	604.0
10°	604.0	606.0	609.4	611.0	616.5	617.1	619.5	620.2	621.5	620.5	619.5
12.5°	609.4	611.0	614.8	618.1	625.6	627.9	632.0	634.3	636.0	635.0	631.6
15°	620.5	620.2	622.2	624.9	631.6	636.0	641.8	644.8	646.8	645.1	640.8
17.5°	646.2	641.4	641.4	639.7	644.8	645.8	648.2	649.9	649.2	644.1	637.0
20°	681.6	674.5	670.1	666.1	664.4	655.9	651.6	645.5	640.1	631.0	622.9
22.5°	727.5	722.5	712.3	703.2	690.4	673.2	654.6	638.7	626.9	614.4	600.6
25°	797.1	785.6	771.1	749.5	732.9	702.5	671.5	641.4	616.1	596.5	573.2
27.5°	862.6	838.3	810.9	777.1	746.8	706.3	666.8	632.0	598.9	567.5	540.8
30°	917.2	875.0	830.5	783.2	740.0	691.1	645.1	605.6	568.2	531.0	505.7
32.5°	958.4	897.7	838.3	777.8	724.5	667.1	614.4	572.2	529.7	490.5	461.2
35°	995.6	913.5	835.9	763.3	700.2	636.7	580.0	532.7	486.1	444.3	410.5
37.5°	1022.2	918.9	825.8	742.4	669.1	599.6	538.1	487.8	437.9	395.3	358.2
40°	1042.8	916.2	806.5	710.3	626.6	554.3	494.2	441.6	391.6	349.1	310.3
42.5°	1056.7	906.1	777.5	673.8	591.1	515.5	456.8	401.4	351.4	306.9	264.0
45°	1074.6	902.1	759.6	646.5	559.1	482.8	420.0	366.0	314.0	267.4	226.5
47.5°	1091.4	899.7	745.1	623.9	530.0	453.1	390.9	334.2	281.9	236.3	199.2
50°	1101.6	896.0	729.9	596.5	497.6	422.7	363.3	305.9	253.2	209.6	176.6
52.5°	1104.6	888.6	710.0	565.5	469.6	396.7	334.9	277.5	226.9	187.7	157.0
55°	1102.3	874.0	683.0	540.2	440.9	368.0	306.2	250.5	204.6	167.8	143.1
57.5°	1090.8	845.0	648.2	508.1	408.2	331.9	271.1	220.1	179.3	149.9	131.0
60°	1065.1	803.1	605.6	463.2	361.2	289.0	231.6	187.7	153.3	132.0	119.5
62.5°	1009.1	742.7	543.9	399.7	298.4	231.9	182.0	149.6	126.3	115.1	107.7
63°	992.5	721.8	525.6	382.8	287.6	219.1	170.8	141.5	120.5	111.4	105.3
65°	905.4	625.2	444.3	307.9	222.8	166.1	130.3	111.1	99.9	96.6	94.9
67.5°	742.0	486.5	312.6	206.6	149.6	114.8	96.2	88.8	84.7	84.4	85.4
70°	524.3	322.7	193.4	132.3	103.0	86.8	79.7	76.3	74.3	74.9	77.0
72.5°	341.0	189.4	122.2	96.9	83.7	76.3	71.2	70.2	69.5	68.9	69.5
75°	180.3	118.5	92.5	81.0	73.3	67.2	63.8	62.5	62.8	62.8	62.8
77.5°	111.7	90.1	79.0	71.6	65.5	59.4	56.0	55.0	55.4	56.0	56.4
80°	85.7	78.7	69.5	64.1	55.4	50.3	48.6	48.3	49.0	49.0	50.0
82.5°	62.8	60.8	57.4	50.6	43.9	40.5	40.2	41.5	40.2	39.8	40.5
85°	36.8	34.4	37.5	32.1	29.4	27.3	28.7	31.4	32.7	31.1	30.4
87.5°	11.8	8.1	11.8	13.2	11.8	10.1	12.8	15.2	15.5	14.9	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VPL-E02-LED-E1-CPL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	565.1	567.5	565.1	566.1	565.8	565.1	566.1	564.8	564.1	566.1	565.8
5°	586.4	586.7	583.7	584.0	583.7	581.0	581.0	579.7	578.0	578.3	577.6
7.5°	603.6	602.9	600.6	599.6	596.5	594.5	593.2	591.1	589.8	588.4	587.8
10°	616.8	615.1	613.4	610.4	607.3	605.6	601.9	598.9	597.9	595.9	594.5
12.5°	628.3	625.2	622.5	618.8	615.1	612.4	608.0	605.6	604.0	601.3	599.2
15°	634.7	628.9	623.9	618.1	614.1	610.0	605.0	604.0	601.6	598.9	595.2
17.5°	626.9	618.8	609.4	603.3	597.2	591.1	586.1	586.1	585.1	582.0	575.6
20°	611.0	598.9	587.8	578.0	571.9	563.1	560.1	555.3	552.0	546.6	538.5
22.5°	585.1	572.2	557.7	547.9	537.5	527.7	521.6	514.2	511.5	502.7	491.9
25°	556.0	537.5	521.9	509.1	494.6	483.1	474.7	464.5	457.8	449.3	435.8
27.5°	521.6	502.3	484.8	470.6	455.4	439.6	424.0	412.2	400.1	390.3	382.5
30°	484.5	464.5	442.9	426.4	408.8	388.9	376.1	360.2	350.8	340.0	329.8
32.5°	435.8	418.3	393.0	373.7	352.1	336.6	326.1	310.9	299.8	290.7	284.9
35°	382.5	356.2	330.8	316.3	301.5	289.0	274.5	262.6	255.2	245.8	240.7
37.5°	324.4	293.7	272.1	259.3	244.1	238.0	228.9	221.8	215.0	208.6	204.6
40°	272.4	244.1	224.5	213.7	203.6	196.8	191.1	188.0	183.7	178.6	175.6
42.5°	229.2	206.6	187.4	177.2	169.5	168.8	165.1	162.7	161.0	158.0	153.3
45°	195.5	174.9	158.3	150.2	146.9	147.2	147.2	145.2	145.2	144.2	141.1
47.5°	172.8	154.3	142.1	136.7	135.4	135.7	134.7	134.0	134.4	134.0	132.3
50°	155.3	139.4	129.3	127.3	126.9	126.6	125.2	124.2	123.9	124.6	124.2
52.5°	137.4	124.2	118.5	117.8	118.2	118.2	117.8	117.5	118.2	118.8	117.8
55°	127.3	117.8	114.1	114.1	114.1	114.1	113.8	113.4	114.4	115.5	113.8
57.5°	117.8	111.1	109.7	109.7	109.7	109.0	109.0	109.4	110.7	112.8	110.7
60°	110.7	107.4	107.4	107.7	107.4	106.0	105.0	105.0	106.7	109.4	107.7
62.5°	104.0	102.3	103.0	102.6	102.0	100.3	98.9	98.9	100.9	103.6	104.3
63°	102.3	100.9	101.6	101.3	100.6	99.3	97.9	97.9	99.6	102.3	103.3
65°	94.9	95.2	95.5	95.9	95.5	95.2	93.5	92.8	94.2	96.2	97.6
67.5°	86.1	86.8	87.4	89.1	88.5	88.5	87.4	86.8	87.1	88.1	89.1
70°	78.0	78.7	79.7	80.3	80.7	81.0	80.3	79.3	79.7	80.0	80.7
72.5°	70.2	70.9	71.6	72.9	72.9	72.9	72.2	71.6	71.9	72.6	73.3
75°	63.1	63.5	64.1	65.2	65.5	64.8	64.8	64.1	64.5	65.5	66.2
77.5°	56.0	55.4	55.7	56.4	57.4	57.4	57.7	57.4	58.1	58.7	59.4
80°	47.9	47.3	46.6	46.9	48.3	50.0	51.7	51.7	52.7	53.0	54.0
82.5°	38.1	37.5	37.1	38.1	37.8	40.2	43.9	45.9	47.3	48.6	49.3
85°	29.7	28.0	28.7	28.7	28.0	31.7	35.1	37.8	38.1	40.2	40.5
87.5°	17.6	16.9	16.2	15.5	17.9	21.6	24.6	25.7	26.3	27.3	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4
2.5°	563.1	565.8	565.1	564.8	565.1	564.8	563.8	564.1	563.4	563.8	563.1
5°	573.9	575.3	574.3	572.6	572.6	570.2	568.5	567.2	565.5	564.8	563.4
7.5°	584.4	583.4	582.0	579.0	577.3	574.3	571.9	569.2	567.5	565.5	563.1
10°	590.8	588.8	586.1	582.4	577.6	574.9	571.6	567.5	565.5	564.5	562.1
12.5°	593.8	588.4	584.0	577.3	570.5	565.5	561.8	557.7	556.7	555.3	553.7
15°	586.7	579.0	567.8	558.7	549.9	542.9	539.8	535.4	534.4	534.1	533.7
17.5°	562.8	551.0	540.2	528.0	520.2	513.8	511.1	510.1	508.4	507.7	508.1
20°	524.3	514.2	503.4	499.3	490.2	488.5	484.5	481.8	478.7	477.7	476.0
22.5°	479.4	466.9	460.1	457.1	453.4	444.6	442.6	439.9	435.8	432.8	432.1
25°	427.1	416.9	416.6	409.5	406.5	401.7	396.3	393.0	390.6	386.9	384.2
27.5°	373.7	370.0	363.6	358.2	356.2	353.5	345.4	343.7	341.0	337.9	334.9
30°	324.1	321.4	315.3	310.3	307.2	301.8	294.0	294.7	289.3	285.3	282.6
32.5°	275.8	273.8	268.1	266.7	256.9	254.2	246.1	240.0	234.6	230.6	227.2
35°	232.3	226.9	227.2	221.1	215.7	207.6	199.2	191.4	187.0	185.0	182.0
37.5°	200.9	195.8	190.7	184.0	177.9	172.2	167.1	164.7	162.0	162.7	163.1
40°	172.5	168.8	165.1	160.4	156.6	154.3	152.9	152.9	153.3	155.0	156.3
42.5°	152.3	149.2	147.2	145.5	146.2	146.2	147.2	148.9	150.6	152.9	154.3
45°	138.8	137.1	136.4	137.1	139.1	140.8	143.1	145.8	148.5	150.9	151.9
47.5°	130.6	129.6	129.6	131.3	134.4	137.1	140.8	143.5	146.5	148.5	149.2
50°	121.9	121.5	121.5	122.9	125.6	129.0	132.7	135.4	138.1	139.8	140.4
52.5°	116.8	115.8	115.5	117.1	119.5	122.9	126.6	129.3	131.3	132.7	133.0
55°	112.4	111.4	110.7	112.8	115.5	118.5	122.9	125.9	127.9	129.6	131.0
57.5°	108.7	107.7	107.0	109.4	112.1	115.8	119.5	122.9	125.6	127.6	129.0
60°	105.7	104.3	103.6	106.3	109.0	112.8	116.5	120.2	123.9	126.3	126.9
62.5°	102.0	100.9	99.9	101.6	103.0	105.7	109.0	112.8	116.1	118.5	118.5
63°	100.9	100.6	99.3	100.6	102.0	104.3	107.7	111.1	114.4	117.1	116.8
65°	96.6	96.6	95.9	97.2	98.6	100.9	103.6	107.4	110.4	112.4	112.8
67.5°	89.5	89.8	90.5	91.8	94.5	96.9	99.9	103.3	106.0	107.4	108.0
70°	81.4	82.0	83.4	85.4	87.8	89.8	91.8	95.2	97.6	98.9	99.6
72.5°	73.6	75.3	76.3	78.0	79.3	81.4	83.0	86.4	88.5	89.5	91.2
75°	66.5	67.9	68.5	69.5	70.9	71.6	73.6	74.9	77.6	79.0	81.0
77.5°	59.8	60.4	61.4	63.1	63.5	64.5	65.2	67.2	68.5	69.9	71.6
80°	53.7	54.4	55.7	56.7	57.1	57.7	58.1	57.7	57.4	56.4	57.7
82.5°	48.3	49.0	50.6	51.7	52.7	52.7	52.3	48.6	46.9	47.6	48.6
85°	39.8	40.5	42.2	44.2	44.6	44.2	44.6	40.8	38.5	37.5	38.5
87.5°	25.0	24.3	30.0	32.7	30.7	31.4	31.7	29.7	27.7	23.6	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	558.4	0°
2.5°	563.8	561.4	561.8	562.4	562.4	563.4	562.1	560.4	561.4	559.7	559.4	2.5°
5°	563.4	560.4	560.4	561.1	560.4	561.1	560.1	558.4	559.4	557.4	557.0	5°
7.5°	562.1	560.4	561.1	561.8	560.7	561.1	560.7	558.4	558.7	557.7	555.3	7.5°
10°	561.4	560.4	561.8	563.8	563.8	564.1	563.1	560.4	558.7	557.7	555.7	10°
12.5°	554.3	555.7	558.4	563.1	564.8	567.5	568.8	567.5	568.2	566.8	566.1	12.5°
15°	534.1	537.5	541.8	548.9	554.0	560.1	567.5	570.9	577.3	582.4	585.7	15°
17.5°	509.8	512.1	516.9	525.0	531.4	543.5	553.7	565.1	577.6	591.1	602.9	17.5°
20°	479.7	478.0	485.5	494.2	505.4	518.9	533.7	551.0	571.6	593.2	613.8	20°
22.5°	435.5	435.5	443.3	453.7	467.2	482.8	503.4	521.9	548.9	580.3	610.7	22.5°
25°	384.9	385.9	391.3	403.1	412.5	434.8	454.1	478.0	510.4	544.9	585.4	25°
27.5°	330.8	337.6	336.2	348.7	361.2	383.2	409.5	433.8	469.9	506.7	553.0	27.5°
30°	281.9	280.9	280.5	295.4	307.9	327.8	349.4	380.1	416.6	463.9	517.2	30°
32.5°	221.1	224.8	227.5	236.3	249.8	268.4	291.7	323.8	367.6	415.2	475.3	32.5°
35°	182.6	183.7	187.4	192.4	204.2	219.8	244.1	272.4	310.9	360.2	424.0	35°
37.5°	163.7	164.7	168.8	173.5	182.0	193.4	210.0	231.9	267.4	313.3	372.7	37.5°
40°	157.7	158.7	161.0	165.4	173.2	183.0	196.1	213.0	238.7	274.5	326.5	40°
42.5°	155.0	155.0	155.3	158.7	166.4	177.9	192.1	207.3	226.2	253.2	295.4	42.5°
45°	151.9	151.9	151.6	153.9	160.0	173.2	190.4	209.0	229.6	252.9	285.9	45°
47.5°	149.2	148.5	147.9	148.9	153.9	167.4	187.4	210.0	236.3	265.4	298.8	47.5°
50°	139.8	139.8	139.4	139.8	144.5	158.7	181.6	209.0	242.4	279.9	320.4	50°
52.5°	133.0	133.4	133.7	133.7	137.4	151.9	177.2	209.3	249.1	294.0	345.4	52.5°
55°	131.3	132.0	132.0	131.3	134.4	147.5	173.2	208.3	253.9	309.9	372.0	55°
57.5°	129.3	129.6	130.0	129.3	131.3	142.8	167.4	203.6	252.5	316.0	391.9	57.5°
60°	126.6	125.2	124.9	123.9	125.2	134.4	157.3	193.4	244.4	313.3	398.7	60°
62.5°	119.2	118.2	117.1	116.1	117.1	123.9	146.2	181.0	230.9	302.5	393.3	62.5°
63°	117.5	116.8	115.8	114.8	114.8	122.2	142.5	177.9	227.5	299.4	391.3	63°
65°	112.8	112.4	111.7	110.7	110.4	116.1	134.0	164.1	211.7	285.9	378.4	65°
67.5°	107.4	107.4	107.0	105.7	104.0	107.4	119.8	143.5	184.0	251.2	346.7	67.5°
70°	99.6	99.6	99.3	98.6	96.6	98.9	107.0	122.5	151.6	205.3	290.7	70°
72.5°	91.8	91.8	92.8	92.5	92.8	93.2	97.2	105.7	123.2	159.7	219.8	72.5°
75°	81.7	83.4	83.7	84.4	84.7	84.4	86.4	91.5	101.6	122.5	160.4	75°
77.5°	73.3	75.6	75.3	74.6	74.3	74.6	74.3	76.6	84.1	97.2	118.8	77.5°
80°	60.4	62.8	62.8	62.5	61.8	62.5	61.8	64.1	70.2	81.7	94.5	80°
82.5°	49.6	51.3	52.3	53.0	52.3	55.0	55.0	54.4	59.1	69.2	79.7	82.5°
85°	39.8	41.5	42.5	43.9	44.6	43.9	43.5	42.9	45.6	53.7	60.8	85°
87.5°	25.3	26.7	26.7	27.0	27.0	28.0	26.0	23.6	21.6	30.7	32.1	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°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
558.4	558.4	558.4	558.4	558.4	558.4	558.4
558.4	558.4	558.7	557.7	558.7	558.7	557.7
556.0	555.3	555.3	555.0	555.7	555.3	555.0
554.0	554.0	552.6	551.6	551.3	552.6	552.0
553.3	552.6	552.3	551.6	552.0	553.0	553.7
565.5	563.1	563.8	563.4	563.8	564.8	566.8
587.8	587.8	589.4	585.7	587.4	589.1	591.8
612.7	618.8	621.9	621.5	622.2	623.5	626.6
634.0	653.2	666.8	670.1	679.2	681.3	676.5
643.5	677.9	708.3	728.5	751.2	760.3	763.0
624.2	673.8	723.8	770.4	815.0	840.6	863.2
604.3	663.0	729.5	799.1	871.7	937.2	986.1
576.6	654.3	744.1	837.9	934.1	1025.3	1107.0
546.2	640.1	745.4	859.5	978.4	1091.8	1190.7
502.7	607.0	723.8	856.1	993.9	1136.0	1259.6
452.7	554.3	685.3	836.6	992.9	1158.6	1306.8
399.4	503.4	641.1	803.1	979.7	1165.7	1339.9
359.2	462.2	597.2	771.4	960.1	1161.0	1355.8
338.6	426.7	561.4	740.3	938.2	1149.5	1362.5
342.7	417.3	540.2	714.7	918.6	1137.0	1360.9
365.3	431.4	539.8	705.2	906.1	1125.5	1356.1
399.4	463.5	559.4	716.4	912.9	1124.5	1355.8
437.9	508.4	606.7	746.4	941.6	1142.8	1363.9
475.0	563.1	667.4	813.6	995.9	1188.3	1396.6
496.9	613.1	745.4	908.5	1079.6	1268.3	1468.5
502.0	643.1	814.6	1001.6	1194.4	1384.1	1580.6
501.7	646.2	826.4	1020.9	1217.7	1410.8	1609.3
493.9	652.2	858.2	1084.4	1311.2	1525.3	1729.2
469.6	641.4	875.7	1143.4	1404.1	1651.5	1909.4
413.9	592.1	855.1	1162.7	1459.4	1735.2	2029.6
324.1	488.5	738.3	1062.8	1384.5	1660.3	2032.7
227.9	345.4	568.2	872.7	1131.6	1403.1	1815.6
158.7	223.8	369.0	587.1	816.6	1023.6	1349.7
116.1	148.9	221.1	351.1	495.6	639.7	837.6
89.5	107.4	141.5	212.0	279.9	358.2	505.0
62.8	70.9	87.4	131.0	187.7	256.2	370.0
27.3	32.1	42.2	77.3	126.9	122.2	116.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)