

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: P145915

Luminaire Tested: **VPL-F02-LED-E1-CPL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145915  
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-F02-LED-E1-CPL  
Description: VALET LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4447 lumens  
Efficiency: N/A  
Efficacy: 80.9 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

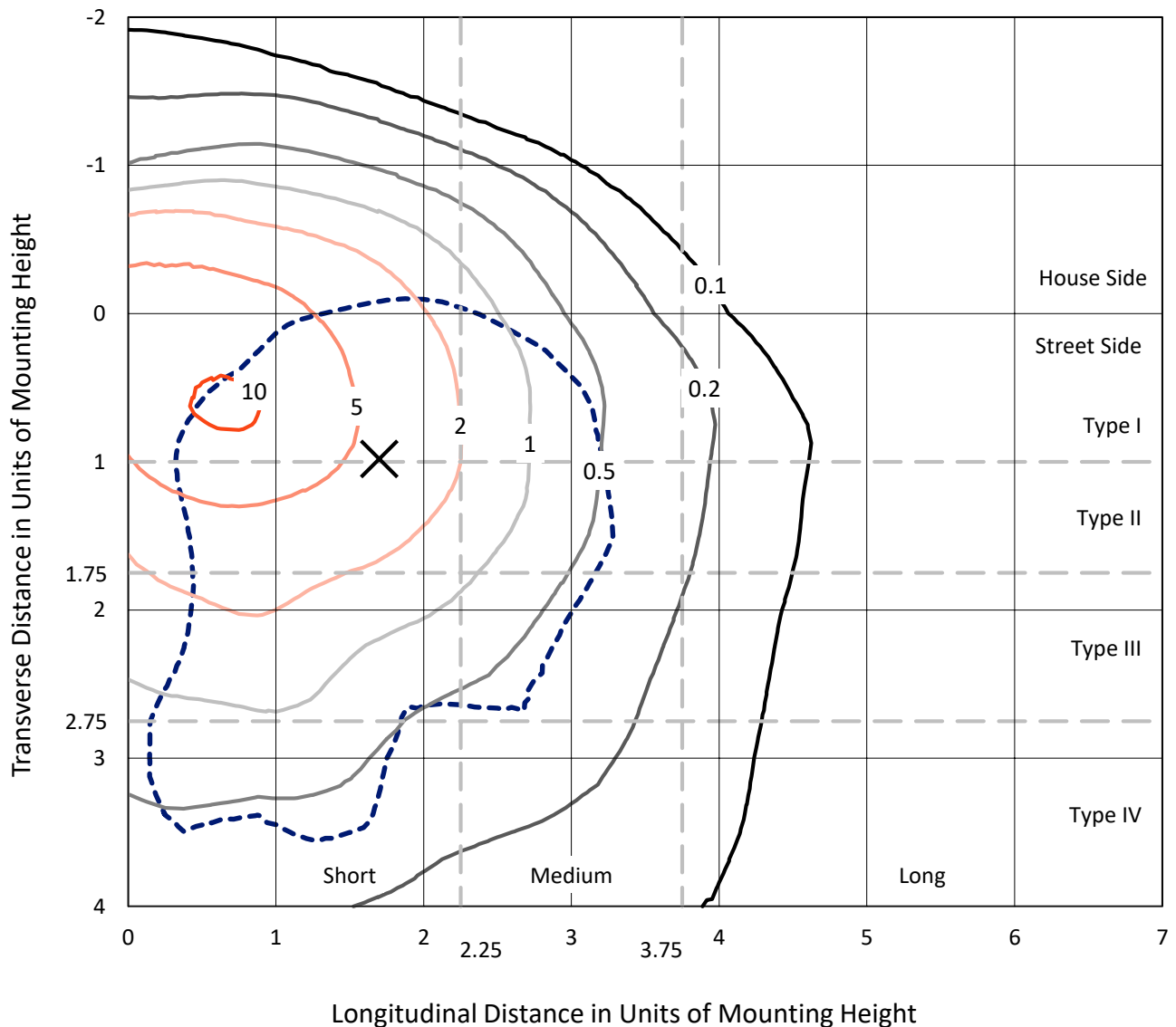
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

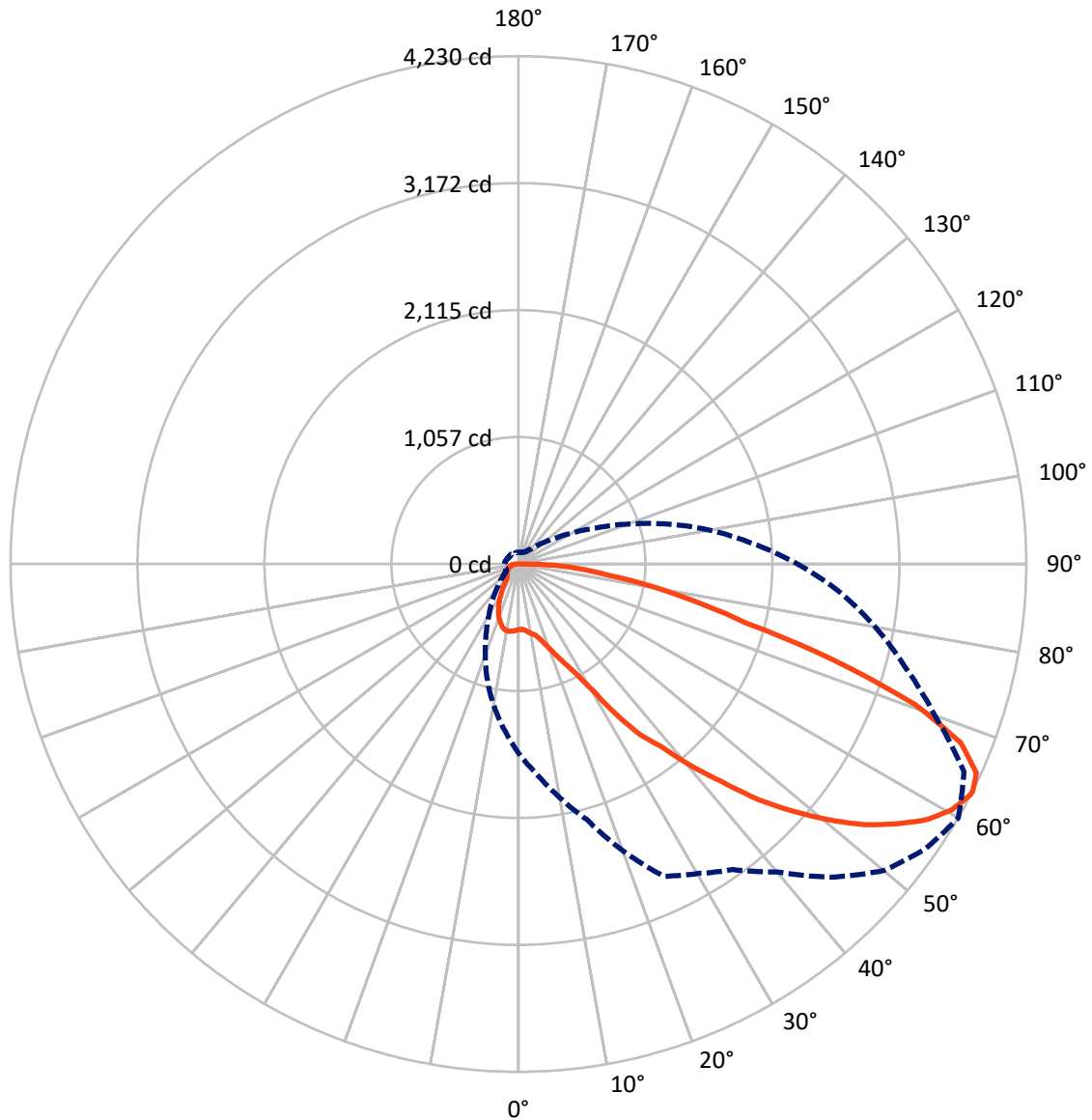
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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
<b>House Side</b>	Lumens	930.9	0.0	930.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	3516.1	0.0	3516.1
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	4447.0	0.0	4447.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	1.2
10°-20°	167.4	3.8
20°-30°	296.1	6.7
30°-40°	467.4	10.5
40°-50°	687.3	15.5
50°-60°	905.4	20.4
60°-70°	1009.1	22.7
70°-80°	663.0	14.9
80°-90°	197.7	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°	4447.0	100.0
0°-180°	4447.0	100.0

**Coefficient of Utilization**



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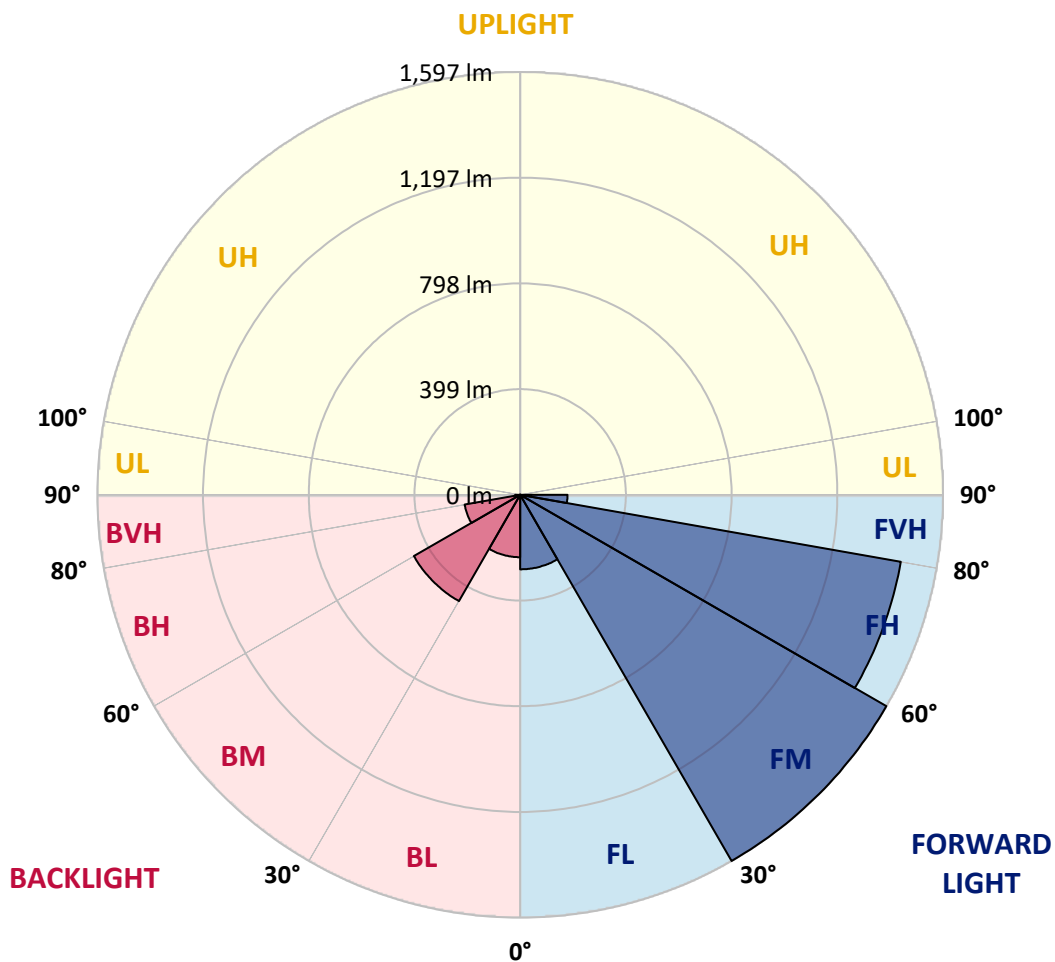
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.5	6.3			
FM	(30°-60°)	1596.6	35.9			
FH	(60°-80°)	1459.4	32.8			G1/1800
FVH	(80°-90°)	178.7	4.0			G2/225
BL	(0°-30°)	235.7	5.3	B1/500		
BM	(30°-60°)	463.5	10.4	B1/1000		
BH	(60°-80°)	212.7	4.8	B1/500		G1/500
BVH	(80°-90°)	19.0	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°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2
2.5°	545.5	545.8	544.8	544.5	543.9	544.2	544.2	543.5	543.5	543.9	542.9
5°	542.9	543.5	543.2	543.9	544.5	545.5	546.5	547.5	548.5	549.8	550.1
7.5°	539.9	541.9	542.2	544.2	546.5	549.1	552.4	556.1	561.0	562.3	565.3
10°	541.5	545.2	547.2	551.1	554.8	559.7	565.6	569.3	575.6	577.9	582.2
12.5°	554.4	557.1	559.7	564.3	569.6	575.9	582.5	588.1	594.7	597.0	598.7
15°	578.9	581.5	584.5	589.1	594.7	602.3	611.9	618.8	626.7	632.7	637.0
17.5°	612.9	612.9	619.8	621.1	632.0	643.6	655.5	669.0	677.3	682.2	690.1
20°	661.7	661.7	671.0	675.3	684.5	699.4	715.6	730.4	742.3	752.2	759.5
22.5°	746.3	742.6	750.6	749.6	760.8	782.9	798.8	807.0	822.9	828.8	838.4
25°	844.3	857.2	865.8	865.8	870.4	893.2	906.4	912.7	927.2	922.9	932.8
27.5°	964.5	999.2	1031.2	1044.5	1038.2	1063.3	1067.9	1073.8	1072.2	1062.0	1059.0
30°	1082.8	1143.8	1193.7	1224.1	1259.1	1307.6	1307.6	1315.6	1298.4	1270.0	1253.1
32.5°	1164.7	1243.2	1319.5	1382.6	1442.0	1516.3	1547.7	1591.3	1598.5	1609.4	1571.8
35°	1232.0	1342.3	1424.2	1519.0	1591.6	1666.9	1750.4	1826.1	1876.3	1868.0	1853.1
37.5°	1278.2	1419.9	1534.2	1645.4	1756.1	1842.2	1921.5	2020.2	2116.3	2135.5	2095.2
40°	1310.6	1474.7	1631.9	1768.6	1907.6	2037.1	2133.5	2239.5	2390.1	2453.8	2420.8
42.5°	1326.1	1517.6	1693.0	1867.0	2043.0	2206.5	2327.3	2472.6	2651.3	2760.2	2723.9
45°	1332.7	1544.1	1742.5	1940.6	2152.0	2353.7	2509.6	2674.4	2875.5	3050.5	3057.1
47.5°	1331.1	1558.3	1776.5	1993.1	2237.5	2472.3	2681.3	2868.2	3096.0	3280.0	3348.3
50°	1326.5	1563.2	1797.0	2024.8	2291.3	2559.1	2794.6	3016.8	3271.4	3504.2	3608.2
52.5°	1326.1	1564.2	1807.2	2042.3	2323.0	2612.3	2865.6	3128.1	3407.1	3650.5	3812.6
55°	1334.0	1570.1	1818.5	2054.6	2340.2	2642.3	2905.5	3197.8	3466.2	3742.6	3952.0
57.5°	1366.1	1597.9	1845.2	2075.4	2359.4	2666.1	2936.6	3217.9	3483.7	3780.9	4032.9
60°	1436.4	1649.7	1891.8	2113.7	2409.2	2728.5	2965.9	3189.5	3450.7	3770.0	4044.4
62.5°	1546.0	1732.9	1956.8	2184.3	2510.6	2847.1	2978.2	3124.4	3369.1	3707.3	3994.6
63°	1574.1	1755.1	1974.0	2203.8	2540.0	2869.5	2977.2	3107.3	3346.7	3688.8	3972.1
65°	1691.3	1857.4	2053.9	2296.9	2673.7	2940.8	2941.2	3006.2	3232.1	3586.7	3880.0
67.5°	1867.7	2026.2	2178.1	2419.8	2821.6	2976.5	2834.5	2785.3	2985.1	3370.8	3646.2
70°	1985.2	2181.0	2266.2	2452.1	2841.8	2933.3	2665.8	2501.7	2667.4	2989.7	3234.4
72.5°	1988.2	2211.4	2236.2	2314.1	2653.2	2726.5	2375.2	2153.0	2252.7	2523.1	2651.9
75°	1775.9	2056.5	2005.7	1977.0	2160.6	2191.9	1921.2	1828.7	1956.5	2116.3	2051.9
77.5°	1320.2	1693.3	1590.0	1467.8	1534.5	1539.1	1547.7	1722.0	1878.9	1944.3	1850.5
80°	819.3	1243.9	1164.7	963.2	989.0	1064.9	1292.8	1600.9	1772.6	1819.5	1631.9
82.5°	494.0	915.0	872.7	735.0	767.4	956.6	1208.6	1293.8	1351.5	1347.3	1153.4
85°	361.9	621.5	678.9	689.1	804.1	928.9	923.6	860.5	825.2	726.1	619.8
87.5°	113.9	320.6	380.4	443.5	485.7	459.7	452.1	390.6	279.7	236.4	259.9
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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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2
2.5°	542.9	544.2	544.8	544.5	544.8	544.8	546.8	546.2	546.8	546.5	548.5
5°	551.1	553.1	554.8	554.8	555.1	555.7	558.4	558.4	559.7	562.3	563.7
7.5°	567.3	569.9	570.3	570.9	572.9	571.9	573.6	574.2	575.2	576.5	578.2
10°	584.1	587.8	587.8	587.4	587.8	585.1	586.1	584.1	584.5	586.5	588.4
12.5°	603.0	604.9	603.6	602.6	602.6	597.7	597.0	594.4	593.1	593.4	594.0
15°	640.6	639.0	638.6	637.0	631.0	627.4	624.8	616.5	612.2	609.9	605.9
17.5°	690.8	691.8	690.1	688.5	679.9	667.7	662.4	653.5	647.5	641.6	634.3
20°	764.1	757.5	756.8	751.6	739.7	722.5	709.6	695.1	686.8	678.3	670.7
22.5°	845.0	838.1	833.4	823.2	805.7	783.9	762.5	744.0	731.4	725.1	719.9
25°	934.8	930.9	923.3	897.2	883.3	858.2	834.8	816.6	802.4	797.1	787.9
27.5°	1042.5	1045.4	1031.2	1006.8	989.3	954.0	933.8	902.5	890.6	871.4	859.5
30°	1238.6	1219.5	1195.4	1158.0	1122.7	1075.2	1041.8	1009.1	991.6	965.9	934.2
32.5°	1559.3	1486.3	1421.6	1342.3	1267.3	1206.6	1158.4	1117.1	1090.4	1047.8	993.9
35°	1817.8	1747.5	1640.5	1525.2	1426.8	1348.9	1288.1	1249.2	1195.7	1127.7	1049.7
37.5°	2007.3	1926.4	1826.4	1738.2	1630.9	1544.1	1461.8	1380.9	1305.7	1202.6	1103.2
40°	2315.1	2205.5	2040.7	1936.7	1848.8	1731.3	1654.4	1545.4	1430.8	1298.1	1154.1
42.5°	2619.6	2474.3	2325.0	2205.5	2080.7	1953.2	1847.5	1701.2	1549.0	1377.0	1199.7
45°	2973.2	2795.2	2600.1	2433.0	2304.9	2155.0	2019.6	1839.9	1645.8	1441.7	1239.3
47.5°	3251.9	3075.6	2855.3	2686.9	2514.2	2345.2	2169.5	1947.9	1717.8	1494.5	1276.3
50°	3519.0	3349.0	3114.9	2908.2	2709.7	2505.6	2293.3	2024.5	1774.2	1535.8	1305.7
52.5°	3758.8	3607.5	3354.6	3107.6	2885.7	2650.6	2387.4	2096.2	1828.4	1578.4	1328.8
55°	3961.9	3820.2	3593.3	3285.9	3034.0	2773.8	2476.2	2161.6	1885.5	1623.0	1345.6
57.5°	4098.2	4016.3	3774.0	3442.8	3155.8	2878.8	2543.3	2227.3	1939.0	1650.7	1352.9
60°	4161.6	4150.7	3945.7	3584.4	3264.1	2960.7	2627.8	2296.9	1974.3	1663.3	1342.6
62.5°	4148.4	4226.4	4076.4	3681.5	3333.1	3011.8	2682.0	2327.0	1965.4	1632.9	1297.4
63°	4136.2	4229.7	4094.9	3691.1	3338.8	3016.8	2687.2	2323.4	1957.2	1619.3	1281.9
65°	4046.7	4190.7	4099.6	3673.9	3313.0	3002.6	2663.5	2266.2	1874.9	1534.2	1194.0
67.5°	3827.5	3971.8	3921.2	3484.7	3146.2	2850.0	2497.4	2071.7	1673.5	1353.2	1031.2
70°	3374.7	3503.9	3443.4	3059.4	2745.0	2535.0	2199.9	1723.0	1363.4	1087.7	784.9
72.5°	2669.4	2760.2	2773.4	2468.3	2227.6	2101.5	1772.2	1299.7	995.9	757.5	509.5
75°	1976.6	1955.5	1959.8	1789.4	1691.3	1638.2	1324.8	891.6	671.0	463.0	302.1
77.5°	1661.3	1509.4	1379.9	1332.7	1218.5	1185.5	873.7	547.2	391.6	277.0	172.0
80°	1350.9	1120.7	932.5	849.0	804.4	811.0	483.4	291.6	205.1	150.9	107.6
82.5°	923.6	748.6	590.4	512.8	504.9	512.5	251.3	143.0	108.3	86.8	67.7
85°	546.2	514.1	459.0	407.5	389.6	367.9	186.9	102.4	55.8	46.2	38.0
87.5°	236.1	289.9	296.9	295.5	275.1	220.9	68.7	26.4	23.4	11.9	9.6
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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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2
2.5°	548.5	548.8	548.1	548.8	551.1	551.1	550.8	551.5	551.8	553.8	553.1
5°	565.0	565.3	565.6	568.0	569.6	571.6	570.9	571.6	572.9	573.2	573.9
7.5°	580.2	582.2	584.8	585.8	588.8	589.4	592.4	592.7	593.4	592.1	590.7
10°	590.7	592.7	596.0	597.7	603.0	603.6	605.9	606.6	607.9	606.9	605.9
12.5°	596.0	597.7	601.3	604.6	611.9	614.2	618.2	620.5	622.1	621.1	617.8
15°	606.9	606.6	608.6	611.2	617.8	622.1	627.7	630.7	632.7	631.0	626.7
17.5°	632.0	627.4	627.4	625.7	630.7	631.7	634.0	635.7	635.0	630.0	623.1
20°	666.7	659.8	655.5	651.5	649.9	641.6	637.3	631.4	626.1	617.2	609.2
22.5°	711.6	706.6	696.7	687.8	675.3	658.4	640.3	624.8	613.2	601.0	587.4
25°	779.6	768.4	754.2	733.1	716.9	687.2	656.8	627.4	602.6	583.5	560.7
27.5°	843.7	819.9	793.2	760.1	730.4	690.8	652.2	618.2	585.8	555.1	529.0
30°	897.2	855.9	812.3	766.1	723.8	675.9	631.0	592.4	555.7	519.4	494.7
32.5°	937.5	878.0	819.9	760.8	708.6	652.5	601.0	559.7	518.1	479.8	451.1
35°	973.8	893.5	817.6	746.6	684.9	622.8	567.3	521.1	475.5	434.6	401.5
37.5°	999.9	898.8	807.7	726.1	654.5	586.5	526.4	477.2	428.3	386.7	350.4
40°	1020.0	896.2	788.9	694.8	612.9	542.2	483.4	431.9	383.0	341.4	303.5
42.5°	1033.6	886.3	760.5	659.1	578.2	504.2	446.8	392.6	343.7	300.2	258.2
45°	1051.1	882.3	743.0	632.4	546.8	472.2	410.8	357.9	307.1	261.5	221.6
47.5°	1067.6	880.0	728.8	610.2	518.4	443.1	382.4	326.9	275.7	231.1	194.8
50°	1077.5	876.4	713.9	583.5	486.7	413.4	355.3	299.2	247.7	205.1	172.7
52.5°	1080.4	869.1	694.4	553.1	459.3	388.0	327.6	271.4	221.9	183.6	153.5
55°	1078.1	854.9	668.0	528.3	431.3	359.9	299.5	245.0	200.1	164.1	140.0
57.5°	1066.9	826.5	634.0	497.0	399.2	324.6	265.2	215.3	175.3	146.6	128.1
60°	1041.8	785.6	592.4	453.0	353.3	282.7	226.5	183.6	149.9	129.1	116.9
62.5°	987.0	726.5	532.0	391.0	291.9	226.9	178.0	146.3	123.5	112.6	105.3
63°	970.8	706.0	514.1	374.5	281.3	214.3	167.1	138.4	117.9	109.0	103.0
65°	885.6	611.5	434.6	301.2	217.9	162.5	127.5	108.6	97.7	94.4	92.8
67.5°	725.8	475.8	305.8	202.1	146.3	112.3	94.1	86.8	82.9	82.6	83.5
70°	512.8	315.7	189.2	129.4	100.7	84.9	77.9	74.6	72.6	73.3	75.3
72.5°	333.5	185.2	119.5	94.8	81.9	74.6	69.7	68.7	68.0	67.4	68.0
75°	176.3	115.9	90.5	79.3	71.7	65.7	62.4	61.1	61.4	61.4	61.4
77.5°	109.3	88.2	77.3	70.0	64.1	58.1	54.8	53.8	54.2	54.8	55.1
80°	83.9	76.9	68.0	62.7	54.2	49.2	47.6	47.2	47.9	47.9	48.9
82.5°	61.4	59.4	56.1	49.5	42.9	39.6	39.3	40.6	39.3	39.0	39.6
85°	36.0	33.7	36.7	31.4	28.7	26.7	28.1	30.7	32.0	30.4	29.7
87.5°	11.6	7.9	11.6	12.9	11.6	9.9	12.5	14.9	15.2	14.5	16.5
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-F02-LED-E1-CPL

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2
2.5°	552.8	555.1	552.8	553.8	553.4	552.8	553.8	552.4	551.8	553.8	553.4
5°	573.6	573.9	570.9	571.3	570.9	568.3	568.3	567.0	565.3	565.6	565.0
7.5°	590.4	589.8	587.4	586.5	583.5	581.5	580.2	578.2	576.9	575.6	574.9
10°	603.3	601.6	600.0	597.0	594.0	592.4	588.8	585.8	584.8	582.8	581.5
12.5°	614.5	611.5	608.9	605.3	601.6	599.0	594.7	592.4	590.7	588.1	586.1
15°	620.8	615.2	610.2	604.6	600.7	596.7	591.7	590.7	588.4	585.8	582.2
17.5°	613.2	605.3	596.0	590.1	584.1	578.2	573.2	573.2	572.3	569.3	563.0
20°	597.7	585.8	574.9	565.3	559.4	550.8	547.8	543.2	539.9	534.6	526.7
22.5°	572.3	559.7	545.5	535.9	525.7	516.1	510.2	502.9	500.3	491.7	481.1
25°	543.9	525.7	510.5	498.0	483.8	472.5	464.3	454.4	447.8	439.5	426.3
27.5°	510.2	491.4	474.2	460.3	445.5	429.9	414.7	403.2	391.3	381.7	374.1
30°	473.9	454.4	433.2	417.1	399.9	380.4	367.9	352.3	343.1	332.5	322.6
32.5°	426.3	409.1	384.4	365.5	344.4	329.2	319.0	304.1	293.2	284.3	278.7
35°	374.1	348.4	323.6	309.4	294.9	282.7	268.5	256.9	249.6	240.4	235.4
37.5°	317.3	287.3	266.1	253.6	238.7	232.8	223.9	216.9	210.3	204.1	200.1
40°	266.5	238.7	219.6	209.0	199.1	192.5	186.9	183.9	179.6	174.7	171.7
42.5°	224.2	202.1	183.3	173.4	165.8	165.1	161.5	159.2	157.5	154.5	149.9
45°	191.2	171.0	154.9	146.9	143.6	144.0	144.0	142.0	142.0	141.0	138.0
47.5°	169.1	150.9	139.0	133.7	132.4	132.7	131.8	131.1	131.4	131.1	129.4
50°	151.9	136.4	126.5	124.5	124.2	123.8	122.5	121.5	121.2	121.8	121.5
52.5°	134.4	121.5	115.9	115.2	115.6	115.6	115.2	114.9	115.6	116.2	115.2
55°	124.5	115.2	111.6	111.6	111.6	111.6	111.3	111.0	111.9	112.9	111.3
57.5°	115.2	108.6	107.3	107.3	107.3	106.7	106.7	107.0	108.3	110.3	108.3
60°	108.3	105.0	105.0	105.3	105.0	103.7	102.7	102.7	104.3	107.0	105.3
62.5°	101.7	100.1	100.7	100.4	99.7	98.1	96.8	96.8	98.7	101.4	102.0
63°	100.1	98.7	99.4	99.1	98.4	97.1	95.8	95.8	97.4	100.1	101.0
65°	92.8	93.1	93.4	93.8	93.4	93.1	91.5	90.8	92.1	94.1	95.4
67.5°	84.2	84.9	85.5	87.2	86.5	86.5	85.5	84.9	85.2	86.2	87.2
70°	76.3	76.9	77.9	78.6	78.9	79.3	78.6	77.6	77.9	78.3	78.9
72.5°	68.7	69.3	70.0	71.3	71.3	71.3	70.7	70.0	70.3	71.0	71.7
75°	61.7	62.1	62.7	63.7	64.1	63.4	63.4	62.7	63.1	64.1	64.7
77.5°	54.8	54.2	54.5	55.1	56.1	56.1	56.5	56.1	56.8	57.5	58.1
80°	46.9	46.2	45.6	45.9	47.2	48.9	50.5	50.5	51.5	51.8	52.8
82.5°	37.3	36.7	36.3	37.3	37.0	39.3	42.9	44.9	46.2	47.6	48.2
85°	29.1	27.4	28.1	28.1	27.4	31.0	34.3	37.0	37.3	39.3	39.6
87.5°	17.2	16.5	15.9	15.2	17.5	21.1	24.1	25.1	25.8	26.7	27.7
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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2
2.5°	550.8	553.4	552.8	552.4	552.8	552.4	551.5	551.8	551.1	551.5	550.8
5°	561.4	562.7	561.7	560.0	560.0	557.7	556.1	554.8	553.1	552.4	551.1
7.5°	571.6	570.6	569.3	566.3	564.7	561.7	559.4	556.7	555.1	553.1	550.8
10°	577.9	575.9	573.2	569.6	565.0	562.3	559.0	555.1	553.1	552.1	549.8
12.5°	580.8	575.6	571.3	564.7	558.1	553.1	549.5	545.5	544.5	543.2	541.5
15°	573.9	566.3	555.4	546.5	537.9	531.0	528.0	523.7	522.7	522.4	522.1
17.5°	550.5	538.9	528.3	516.4	508.9	502.6	499.9	498.9	497.3	496.6	497.0
20°	512.8	502.9	492.3	488.4	479.5	477.8	473.9	471.2	468.2	467.2	465.6
22.5°	468.9	456.7	450.1	447.1	443.5	434.9	432.9	430.3	426.3	423.3	422.7
25°	417.7	407.8	407.5	400.5	397.6	392.9	387.7	384.4	382.1	378.4	375.8
27.5°	365.5	361.9	355.6	350.4	348.4	345.7	337.8	336.2	333.5	330.5	327.6
30°	317.0	314.4	308.4	303.5	300.5	295.2	287.6	288.3	283.0	279.0	276.4
32.5°	269.8	267.8	262.2	260.9	251.3	248.6	240.7	234.8	229.5	225.5	222.2
35°	227.2	221.9	222.2	216.3	211.0	203.1	194.8	187.2	182.9	181.0	178.0
37.5°	196.5	191.5	186.6	180.0	174.0	168.4	163.5	161.1	158.5	159.2	159.5
40°	168.7	165.1	161.5	156.8	153.2	150.9	149.6	149.6	149.9	151.6	152.9
42.5°	148.9	146.0	144.0	142.3	143.0	143.0	144.0	145.6	147.3	149.6	150.9
45°	135.7	134.1	133.4	134.1	136.0	137.7	140.0	142.7	145.3	147.6	148.6
47.5°	127.8	126.8	126.8	128.5	131.4	134.1	137.7	140.3	143.3	145.3	146.0
50°	119.2	118.9	118.9	120.2	122.8	126.1	129.8	132.4	135.1	136.7	137.4
52.5°	114.3	113.3	112.9	114.6	116.9	120.2	123.8	126.5	128.5	129.8	130.1
55°	110.0	109.0	108.3	110.3	112.9	115.9	120.2	123.2	125.1	126.8	128.1
57.5°	106.3	105.3	104.7	107.0	109.6	113.3	116.9	120.2	122.8	124.8	126.1
60°	103.4	102.0	101.4	104.0	106.7	110.3	113.9	117.6	121.2	123.5	124.2
62.5°	99.7	98.7	97.7	99.4	100.7	103.4	106.7	110.3	113.6	115.9	115.9
63°	98.7	98.4	97.1	98.4	99.7	102.0	105.3	108.6	111.9	114.6	114.3
65°	94.4	94.4	93.8	95.1	96.4	98.7	101.4	105.0	108.0	110.0	110.3
67.5°	87.5	87.8	88.5	89.8	92.5	94.8	97.7	101.0	103.7	105.0	105.7
70°	79.6	80.2	81.6	83.5	85.9	87.8	89.8	93.1	95.4	96.8	97.4
72.5°	72.0	73.6	74.6	76.3	77.6	79.6	81.2	84.5	86.5	87.5	89.2
75°	65.1	66.4	67.0	68.0	69.3	70.0	72.0	73.3	75.9	77.3	79.3
77.5°	58.4	59.1	60.1	61.7	62.1	63.1	63.7	65.7	67.0	68.4	70.0
80°	52.5	53.2	54.5	55.5	55.8	56.5	56.8	56.5	56.1	55.1	56.5
82.5°	47.2	47.9	49.5	50.5	51.5	51.5	51.2	47.6	45.9	46.6	47.6
85°	39.0	39.6	41.3	43.3	43.6	43.3	43.6	40.0	37.6	36.7	37.6
87.5°	24.4	23.8	29.4	32.0	30.0	30.7	31.0	29.1	27.1	23.1	24.1
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°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	0°
2.5°	551.5	549.1	549.5	550.1	550.1	551.1	549.8	548.1	549.1	547.5	547.2	2.5°
5°	551.1	548.1	548.1	548.8	548.1	548.8	547.8	546.2	547.2	545.2	544.8	5°
7.5°	549.8	548.1	548.8	549.5	548.5	548.8	548.5	546.2	546.5	545.5	543.2	7.5°
10°	549.1	548.1	549.5	551.5	551.5	551.8	550.8	548.1	546.5	545.5	543.5	10°
12.5°	542.2	543.5	546.2	550.8	552.4	555.1	556.4	555.1	555.7	554.4	553.8	12.5°
15°	522.4	525.7	530.0	536.9	541.9	547.8	555.1	558.4	564.7	569.6	572.9	15°
17.5°	498.6	500.9	505.6	513.5	519.8	531.6	541.5	552.8	565.0	578.2	589.8	17.5°
20°	469.2	467.6	474.8	483.4	494.3	507.5	522.1	538.9	559.0	580.2	600.3	20°
22.5°	426.0	426.0	433.6	443.8	457.0	472.2	492.3	510.5	536.9	567.6	597.3	22.5°
25°	376.4	377.4	382.7	394.3	403.5	425.3	444.1	467.6	499.3	533.0	572.6	25°
27.5°	323.6	330.2	328.9	341.1	353.3	374.8	400.5	424.3	459.7	495.6	540.9	27.5°
30°	275.7	274.7	274.4	288.9	301.2	320.6	341.8	371.8	407.5	453.7	505.9	30°
32.5°	216.3	219.9	222.6	231.1	244.4	262.5	285.3	316.7	359.6	406.2	464.9	32.5°
35°	178.6	179.6	183.3	188.2	199.8	215.0	238.7	266.5	304.1	352.3	414.7	35°
37.5°	160.2	161.1	165.1	169.7	178.0	189.2	205.4	226.9	261.5	306.4	364.6	37.5°
40°	154.2	155.2	157.5	161.8	169.4	179.0	191.9	208.4	233.5	268.5	319.3	40°
42.5°	151.6	151.6	151.9	155.2	162.8	174.0	187.9	202.7	221.2	247.7	288.9	42.5°
45°	148.6	148.6	148.3	150.6	156.5	169.4	186.2	204.4	224.5	247.3	279.7	45°
47.5°	146.0	145.3	144.6	145.6	150.6	163.8	183.3	205.4	231.1	259.5	292.2	47.5°
50°	136.7	136.7	136.4	136.7	141.3	155.2	177.7	204.4	237.1	273.7	313.4	50°
52.5°	130.1	130.4	130.8	130.8	134.4	148.6	173.4	204.7	243.7	287.6	337.8	52.5°
55°	128.5	129.1	129.1	128.5	131.4	144.3	169.4	203.7	248.3	303.1	363.9	55°
57.5°	126.5	126.8	127.1	126.5	128.5	139.7	163.8	199.1	247.0	309.1	383.4	57.5°
60°	123.8	122.5	122.2	121.2	122.5	131.4	153.9	189.2	239.1	306.4	390.0	60°
62.5°	116.6	115.6	114.6	113.6	114.6	121.2	143.0	177.0	225.9	295.9	384.7	62.5°
63°	114.9	114.3	113.3	112.3	112.3	119.5	139.3	174.0	222.6	292.9	382.7	63°
65°	110.3	110.0	109.3	108.3	108.0	113.6	131.1	160.5	207.0	279.7	370.2	65°
67.5°	105.0	105.0	104.7	103.4	101.7	105.0	117.2	140.3	180.0	245.7	339.1	67.5°
70°	97.4	97.4	97.1	96.4	94.4	96.8	104.7	119.9	148.3	200.8	284.3	70°
72.5°	89.8	89.8	90.8	90.5	90.8	91.1	95.1	103.4	120.5	156.2	215.0	72.5°
75°	79.9	81.6	81.9	82.6	82.9	82.6	84.5	89.5	99.4	119.9	156.8	75°
77.5°	71.7	74.0	73.6	73.0	72.6	73.0	72.6	75.0	82.2	95.1	116.2	77.5°
80°	59.1	61.4	61.4	61.1	60.4	61.1	60.4	62.7	68.7	79.9	92.5	80°
82.5°	48.5	50.2	51.2	51.8	51.2	53.8	53.8	53.2	57.8	67.7	77.9	82.5°
85°	39.0	40.6	41.6	42.9	43.6	42.9	42.6	41.9	44.6	52.5	59.4	85°
87.5°	24.8	26.1	26.1	26.4	26.4	27.4	25.4	23.1	21.1	30.0	31.4	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°
546.2	546.2	546.2	546.2	546.2	546.2	546.2
546.2	546.2	546.5	545.5	546.5	546.5	545.5
543.9	543.2	543.2	542.9	543.5	543.2	542.9
541.9	541.9	540.6	539.6	539.2	540.6	539.9
541.2	540.6	540.2	539.6	539.9	540.9	541.5
553.1	550.8	551.5	551.1	551.5	552.4	554.4
574.9	574.9	576.5	572.9	574.6	576.2	578.9
599.3	605.3	608.2	607.9	608.6	609.9	612.9
620.1	639.0	652.2	655.5	664.4	666.4	661.7
629.4	663.1	692.8	712.6	734.7	743.6	746.3
610.6	659.1	708.0	753.5	797.1	822.2	844.3
591.1	648.5	713.6	781.6	852.6	916.7	964.5
564.0	639.9	727.8	819.6	913.7	1002.8	1082.8
534.3	626.1	729.1	840.7	956.9	1067.9	1164.7
491.7	593.7	708.0	837.4	972.1	1111.2	1232.0
442.8	542.2	670.3	818.3	971.1	1133.3	1278.2
390.6	492.3	627.1	785.6	958.3	1140.2	1310.6
351.3	452.1	584.1	754.5	939.1	1135.6	1326.1
331.2	417.4	549.1	724.2	917.7	1124.4	1332.7
335.2	408.1	528.3	699.1	898.5	1112.1	1331.1
357.3	422.0	528.0	689.8	886.3	1100.9	1326.5
390.6	453.4	547.2	700.7	892.9	1099.9	1326.1
428.3	497.3	593.4	730.1	921.0	1117.8	1334.0
464.6	550.8	652.8	795.8	974.1	1162.3	1366.1
486.1	599.7	729.1	888.6	1056.0	1240.6	1436.4
491.0	629.0	796.8	979.7	1168.3	1353.9	1546.0
490.7	632.0	808.4	998.6	1191.1	1379.9	1574.1
483.1	638.0	839.4	1060.6	1282.5	1491.9	1691.3
459.3	627.4	856.6	1118.4	1373.3	1615.4	1867.7
404.8	579.2	836.4	1137.2	1427.5	1697.3	1985.2
317.0	477.8	722.2	1039.5	1354.2	1624.0	1988.2
222.9	337.8	555.7	853.6	1106.9	1372.4	1775.9
155.2	218.9	360.9	574.2	798.8	1001.2	1320.2
113.6	145.6	216.3	343.4	484.7	625.7	819.3
87.5	105.0	138.4	207.4	273.7	350.4	494.0
61.4	69.3	85.5	128.1	183.6	250.6	361.9
26.7	31.4	41.3	75.6	124.2	119.5	113.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)