

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: P145913

Luminaire Tested: **VPL-F02-LED-E1-CPL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145913
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-8030
Description: VALET LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3753.2 lumens
Efficiency: N/A
Efficacy: 68.2 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

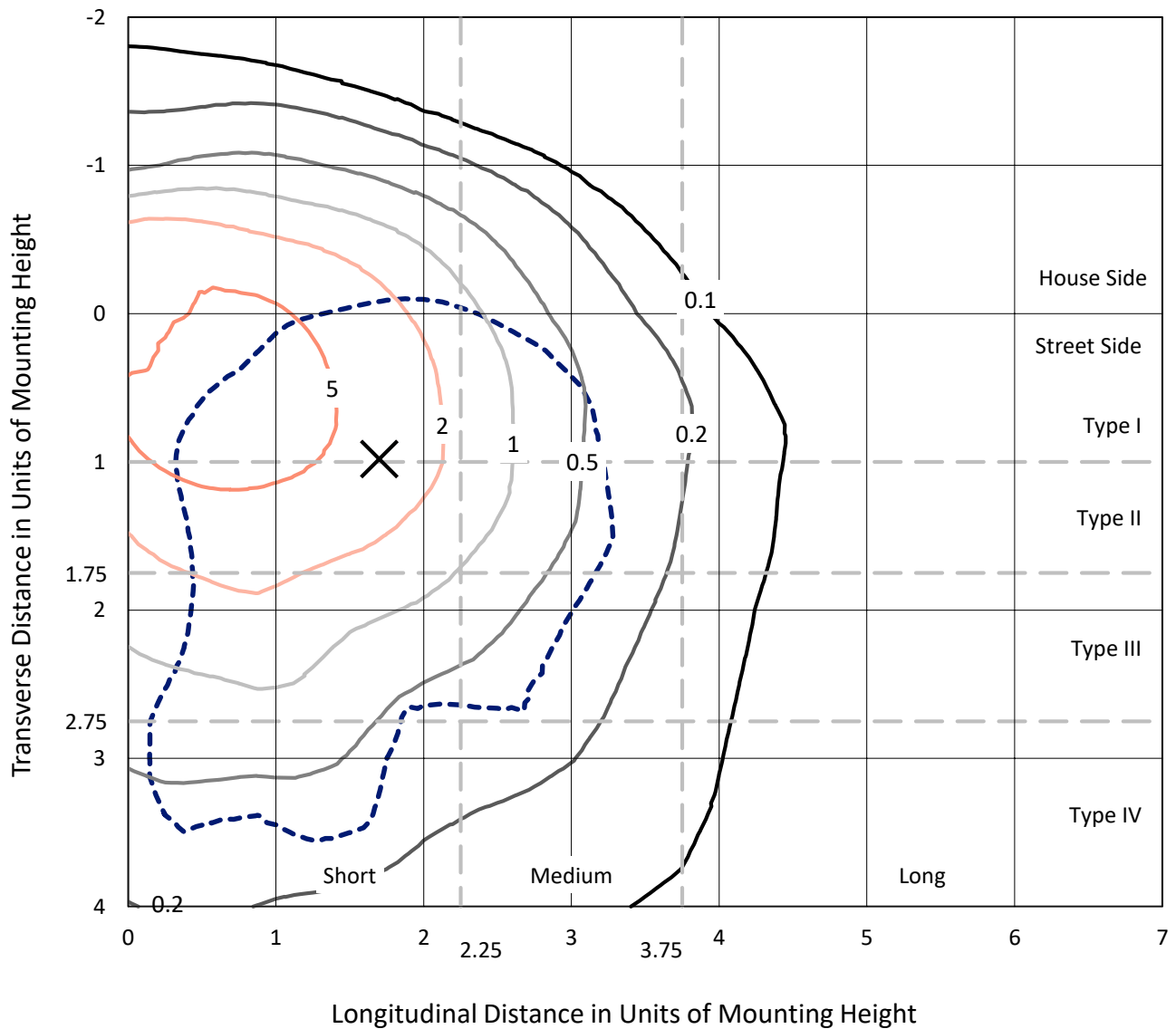
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

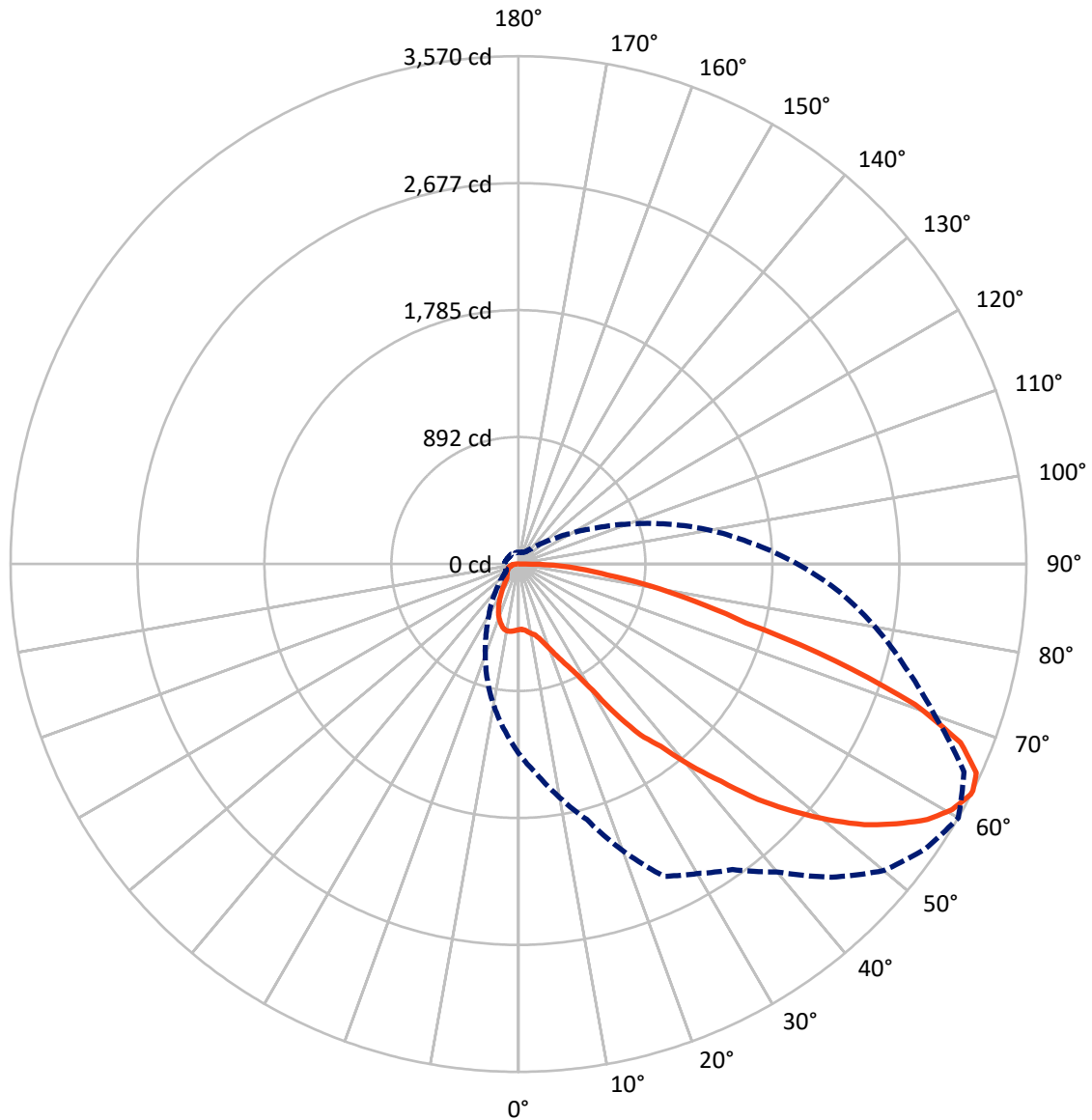
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 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	785.7	0.0	785.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	2967.6	0.0	2967.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	3753.2	0.0	3753.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	1.2
10°-20°	141.3	3.8
20°-30°	249.9	6.7
30°-40°	394.5	10.5
40°-50°	580.1	15.5
50°-60°	764.1	20.4
60°-70°	851.7	22.7
70°-80°	559.6	14.9
80°-90°	166.9	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°	3753.2	100.0
0°-180°	3753.2	100.0



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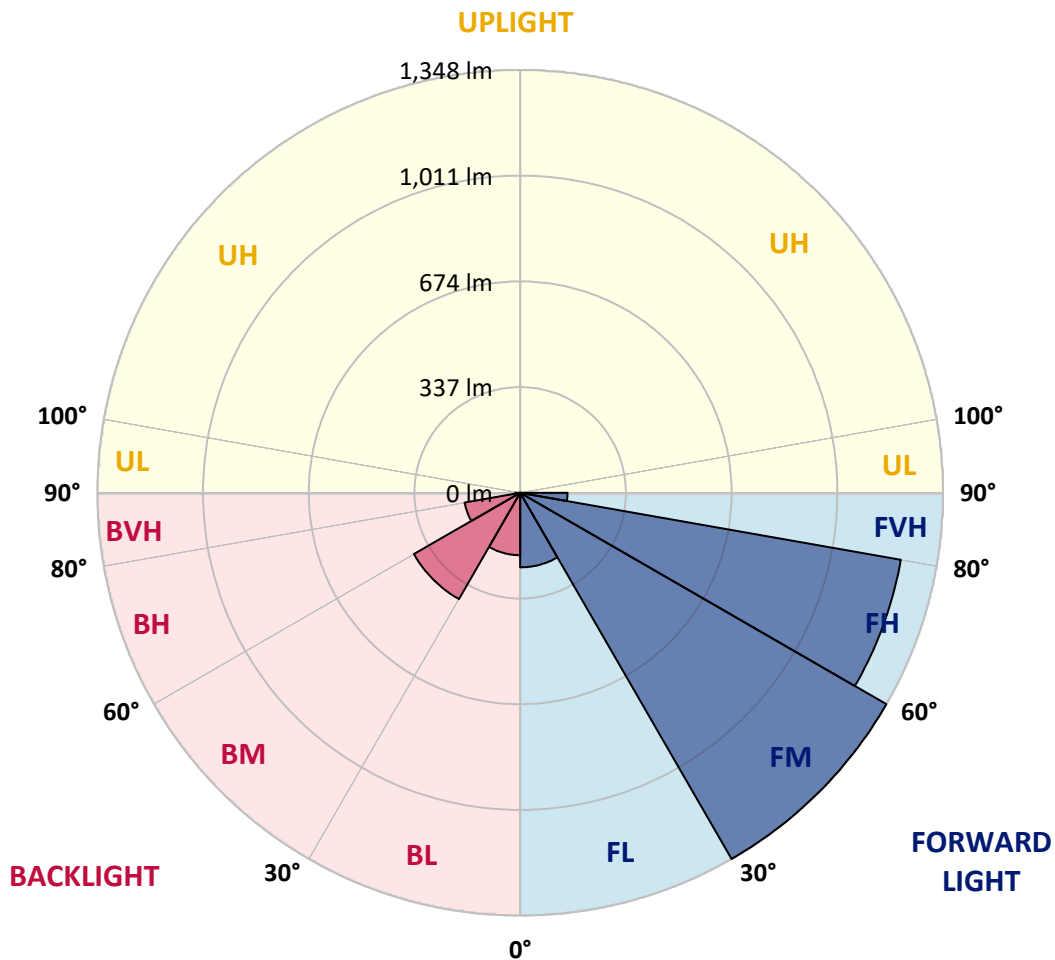
CATALOG NUMBER: VPL-F02-LED-E1-CPL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.6	6.3			
FM	(30°-60°)	1347.5	35.9			
FH	(60°-80°)	1231.7	32.8			G1/1800
FVH	(80°-90°)	150.8	4.0			G2/225
BL	(0°-30°)	198.9	5.3	B1/500		
BM	(30°-60°)	391.2	10.4	B1/1000		
BH	(60°-80°)	179.6	4.8	B1/500		G1/500
BVH	(80°-90°)	16.1	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°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
2.5°	460.4	460.7	459.8	459.6	459.0	459.3	459.3	458.7	458.7	459.0	458.2
5°	458.2	458.7	458.5	459.0	459.6	460.4	461.2	462.1	462.9	464.0	464.3
7.5°	455.7	457.3	457.6	459.3	461.2	463.5	466.3	469.3	473.5	474.6	477.1
10°	457.1	460.1	461.8	465.1	468.2	472.4	477.4	480.5	485.8	487.7	491.3
12.5°	467.9	470.2	472.4	476.3	480.7	486.0	491.6	496.4	501.9	503.9	505.3
15°	488.6	490.8	493.3	497.2	501.9	508.3	516.4	522.3	529.0	534.0	537.6
17.5°	517.3	517.3	523.1	524.2	533.4	543.2	553.2	564.6	571.6	575.8	582.5
20°	558.5	558.5	566.3	569.9	577.7	590.3	603.9	616.5	626.5	634.9	641.0
22.5°	629.8	626.8	633.5	632.6	642.1	660.8	674.2	681.1	694.5	699.5	707.6
25°	712.6	723.5	730.7	730.7	734.6	753.9	765.0	770.3	782.6	779.0	787.3
27.5°	814.1	843.3	870.4	881.5	876.2	897.4	901.3	906.3	904.9	896.3	893.8
30°	913.8	965.4	1007.5	1033.1	1062.7	1103.6	1103.6	1110.3	1095.8	1071.9	1057.6
32.5°	983.0	1049.3	1113.7	1166.9	1217.1	1279.8	1306.2	1343.0	1349.2	1358.4	1326.6
35°	1039.8	1132.9	1202.0	1282.0	1343.3	1406.8	1477.4	1541.2	1583.5	1576.6	1564.0
37.5°	1078.8	1198.4	1294.8	1388.7	1482.1	1554.8	1621.7	1705.1	1786.2	1802.3	1768.3
40°	1106.1	1244.6	1377.3	1492.7	1610.0	1719.3	1800.6	1890.1	2017.2	2071.0	2043.1
42.5°	1119.2	1280.9	1428.9	1575.7	1724.3	1862.2	1964.2	2086.9	2237.6	2329.6	2298.9
45°	1124.8	1303.2	1470.7	1637.9	1816.3	1986.5	2118.1	2257.1	2426.9	2574.6	2580.2
47.5°	1123.4	1315.2	1499.4	1682.2	1888.4	2086.6	2263.0	2420.7	2613.0	2768.3	2826.0
50°	1119.5	1319.3	1516.7	1709.0	1933.9	2159.9	2358.6	2546.2	2761.0	2957.5	3045.3
52.5°	1119.2	1320.2	1525.3	1723.7	1960.6	2204.7	2418.5	2640.1	2875.6	3081.0	3217.8
55°	1125.9	1325.2	1534.8	1734.0	1975.1	2230.1	2452.2	2698.9	2925.5	3158.7	3335.4
57.5°	1153.0	1348.6	1557.3	1751.6	1991.3	2250.2	2478.4	2715.9	2940.2	3191.0	3403.7
60°	1212.3	1392.4	1596.6	1783.9	2033.4	2302.9	2503.2	2691.9	2912.4	3181.9	3413.4
62.5°	1304.8	1462.6	1651.5	1843.6	2118.9	2402.9	2513.5	2637.0	2843.5	3128.9	3371.4
63°	1328.5	1481.3	1666.0	1860.0	2143.7	2421.9	2512.7	2622.5	2824.6	3113.3	3352.4
65°	1427.5	1567.7	1733.5	1938.6	2256.6	2482.1	2482.3	2537.2	2727.9	3027.2	3274.7
67.5°	1576.3	1710.1	1838.3	2042.3	2381.4	2512.1	2392.3	2350.8	2519.4	2844.9	3077.3
70°	1675.5	1840.8	1912.7	2069.6	2398.4	2475.6	2249.9	2111.4	2251.3	2523.3	2729.8
72.5°	1678.0	1866.4	1887.3	1953.1	2239.3	2301.2	2004.6	1817.1	1901.3	2129.5	2238.2
75°	1498.8	1735.7	1692.8	1668.5	1823.5	1850.0	1621.4	1543.4	1651.3	1786.2	1731.8
77.5°	1114.2	1429.1	1341.9	1238.8	1295.1	1299.0	1306.2	1453.4	1585.8	1641.0	1561.8
80°	691.4	1049.8	983.0	813.0	834.7	898.8	1091.1	1351.1	1496.0	1535.6	1377.3
82.5°	416.9	772.3	736.6	620.4	647.7	807.4	1020.0	1091.9	1140.7	1137.1	973.5
85°	305.4	524.5	573.0	581.6	678.6	784.0	779.5	726.3	696.5	612.8	523.1
87.5°	96.1	270.6	321.1	374.3	410.0	387.9	381.5	329.7	236.1	199.5	219.3
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°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
2.5°	458.2	459.3	459.8	459.6	459.8	459.8	461.5	461.0	461.5	461.2	462.9
5°	465.1	466.8	468.2	468.2	468.5	469.0	471.3	471.3	472.4	474.6	475.7
7.5°	478.8	481.0	481.3	481.9	483.5	482.7	484.1	484.6	485.5	486.6	488.0
10°	493.0	496.1	496.1	495.8	496.1	493.8	494.7	493.0	493.3	495.0	496.6
12.5°	508.9	510.6	509.5	508.6	508.6	504.4	503.9	501.6	500.5	500.8	501.4
15°	540.7	539.3	539.0	537.6	532.6	529.5	527.3	520.3	516.7	514.7	511.4
17.5°	583.0	583.9	582.5	581.1	573.8	563.5	559.1	551.5	546.5	541.5	535.4
20°	644.9	639.3	638.8	634.3	624.3	609.8	598.9	586.7	579.7	572.4	566.0
22.5°	713.2	707.3	703.4	694.8	680.0	661.6	643.5	627.9	617.3	612.0	607.6
25°	789.0	785.6	779.2	757.2	745.5	724.3	704.5	689.2	677.2	672.8	665.0
27.5°	879.8	882.3	870.4	849.7	835.0	805.1	788.1	761.7	751.6	735.5	725.4
30°	1045.4	1029.2	1008.9	977.4	947.6	907.4	879.3	851.7	836.9	815.2	788.4
32.5°	1316.0	1254.4	1199.8	1132.9	1069.6	1018.3	977.7	942.8	920.2	884.3	838.9
35°	1534.2	1474.8	1384.6	1287.3	1204.2	1138.5	1087.2	1054.3	1009.2	951.7	886.0
37.5°	1694.2	1625.9	1541.5	1467.0	1376.5	1303.2	1233.8	1165.5	1102.0	1015.0	931.1
40°	1953.9	1861.4	1722.3	1634.5	1560.4	1461.2	1396.3	1304.3	1207.6	1095.5	974.0
42.5°	2210.9	2088.3	1962.3	1861.4	1756.1	1648.5	1559.3	1435.8	1307.4	1162.2	1012.5
45°	2509.4	2359.1	2194.4	2053.4	1945.3	1818.8	1704.5	1552.9	1389.0	1216.8	1045.9
47.5°	2744.6	2595.8	2409.9	2267.7	2122.0	1979.3	1831.0	1644.0	1449.8	1261.4	1077.2
50°	2970.0	2826.5	2628.9	2454.5	2287.0	2114.7	1935.5	1708.7	1497.4	1296.2	1102.0
52.5°	3172.4	3044.7	2831.3	2622.8	2435.5	2237.1	2015.0	1769.2	1543.1	1332.2	1121.5
55°	3343.8	3224.2	3032.8	2773.3	2560.6	2341.0	2089.9	1824.3	1591.3	1369.8	1135.7
57.5°	3458.9	3389.8	3185.2	2905.7	2663.5	2429.7	2146.5	1879.8	1636.5	1393.2	1141.8
60°	3512.4	3503.2	3330.1	3025.2	2754.9	2498.8	2217.8	1938.6	1666.3	1403.8	1133.2
62.5°	3501.2	3567.0	3440.5	3107.2	2813.1	2542.0	2263.6	1964.0	1658.8	1378.1	1095.0
63°	3490.9	3569.8	3456.1	3115.2	2817.9	2546.2	2268.0	1960.9	1651.8	1366.7	1081.9
65°	3415.4	3536.9	3460.0	3100.8	2796.1	2534.2	2247.9	1912.7	1582.4	1294.8	1007.8
67.5°	3230.3	3352.1	3309.5	2941.1	2655.4	2405.4	2107.8	1748.5	1412.4	1142.1	870.4
70°	2848.3	2957.2	2906.2	2582.1	2316.8	2139.5	1856.7	1454.2	1150.7	918.0	662.5
72.5°	2253.0	2329.6	2340.8	2083.2	1880.1	1773.6	1495.8	1096.9	840.5	639.3	430.0
75°	1668.3	1650.4	1654.1	1510.2	1427.5	1382.6	1118.1	752.5	566.3	390.7	255.0
77.5°	1402.1	1273.9	1164.7	1124.8	1028.4	1000.5	737.4	461.8	330.5	233.8	145.2
80°	1140.1	945.9	787.0	716.5	678.9	684.5	408.0	246.1	173.1	127.4	90.9
82.5°	779.5	631.8	498.3	432.8	426.1	432.5	212.1	120.7	91.4	73.3	57.1
85°	461.0	433.9	387.4	343.9	328.9	310.5	157.7	86.4	47.1	39.0	32.0
87.5°	199.3	244.7	250.5	249.4	232.2	186.4	58.0	22.3	19.8	10.0	8.1
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
2.5°	462.9	463.2	462.6	463.2	465.1	465.1	464.9	465.4	465.7	467.4	466.8
5°	476.8	477.1	477.4	479.4	480.7	482.4	481.9	482.4	483.5	483.8	484.4
7.5°	489.7	491.3	493.6	494.4	496.9	497.5	500.0	500.3	500.8	499.7	498.6
10°	498.6	500.3	503.0	504.4	508.9	509.5	511.4	512.0	513.1	512.2	511.4
12.5°	503.0	504.4	507.5	510.3	516.4	518.4	521.7	523.7	525.1	524.2	521.4
15°	512.2	512.0	513.6	515.9	521.4	525.1	529.8	532.3	534.0	532.6	529.0
17.5°	533.4	529.5	529.5	528.1	532.3	533.1	535.1	536.5	535.9	531.7	525.9
20°	562.7	556.8	553.2	549.9	548.5	541.5	537.9	532.9	528.4	520.9	514.2
22.5°	600.6	596.4	588.0	580.5	569.9	555.7	540.4	527.3	517.5	507.2	495.8
25°	658.0	648.5	636.5	618.7	605.0	580.0	554.3	529.5	508.6	492.5	473.2
27.5°	712.1	692.0	669.4	641.6	616.5	583.0	550.4	521.7	494.4	468.5	446.5
30°	757.2	722.4	685.6	646.6	610.9	570.5	532.6	500.0	469.0	438.4	417.5
32.5°	791.2	741.0	692.0	642.1	598.1	550.7	507.2	472.4	437.3	404.9	380.7
35°	821.9	754.1	690.0	630.1	578.0	525.6	478.8	439.8	401.3	366.8	338.9
37.5°	843.9	758.6	681.7	612.8	552.4	495.0	444.2	402.7	361.5	326.4	295.7
40°	860.9	756.4	665.8	586.4	517.3	457.6	408.0	364.5	323.3	288.2	256.1
42.5°	872.3	748.0	641.8	556.3	488.0	425.6	377.1	331.4	290.1	253.3	217.9
45°	887.1	744.7	627.1	533.7	461.5	398.5	346.7	302.1	259.2	220.7	187.0
47.5°	901.0	742.7	615.1	515.0	437.5	374.0	322.7	275.9	232.7	195.1	164.4
50°	909.4	739.7	602.5	492.5	410.8	348.9	299.9	252.5	209.0	173.1	145.8
52.5°	911.9	733.5	586.1	466.8	387.7	327.5	276.5	229.1	187.3	155.0	129.6
55°	909.9	721.5	563.8	445.9	364.0	303.8	252.8	206.8	168.9	138.5	118.2
57.5°	900.5	697.6	535.1	419.4	336.9	274.0	223.8	181.7	148.0	123.7	108.1
60°	879.3	663.0	500.0	382.4	298.2	238.6	191.2	155.0	126.5	109.0	98.7
62.5°	833.0	613.1	449.0	330.0	246.4	191.5	150.2	123.5	104.2	95.0	88.9
63°	819.4	595.8	433.9	316.0	237.4	180.9	141.0	116.8	99.5	92.0	87.0
65°	747.5	516.1	366.8	254.2	183.9	137.1	107.6	91.7	82.5	79.7	78.3
67.5°	612.6	401.6	258.1	170.6	123.5	94.8	79.4	73.3	70.0	69.7	70.5
70°	432.8	266.4	159.7	109.2	85.0	71.6	65.8	63.0	61.3	61.9	63.5
72.5°	281.5	156.3	100.9	80.0	69.1	63.0	58.8	58.0	57.4	56.9	57.4
75°	148.8	97.8	76.4	66.9	60.5	55.5	52.7	51.6	51.8	51.8	51.8
77.5°	92.2	74.4	65.2	59.1	54.1	49.1	46.3	45.4	45.7	46.3	46.5
80°	70.8	64.9	57.4	53.0	45.7	41.5	40.1	39.9	40.4	40.4	41.2
82.5°	51.8	50.2	47.4	41.8	36.2	33.4	33.2	34.3	33.2	32.9	33.4
85°	30.4	28.4	30.9	26.5	24.2	22.6	23.7	25.9	27.0	25.6	25.1
87.5°	9.8	6.7	9.8	10.9	9.8	8.4	10.6	12.5	12.8	12.3	13.9
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
2.5°	466.5	468.5	466.5	467.4	467.1	466.5	467.4	466.3	465.7	467.4	467.1
5°	484.1	484.4	481.9	482.1	481.9	479.6	479.6	478.5	477.1	477.4	476.8
7.5°	498.3	497.7	495.8	495.0	492.5	490.8	489.7	488.0	486.9	485.8	485.2
10°	509.2	507.8	506.4	503.9	501.4	500.0	496.9	494.4	493.6	491.9	490.8
12.5°	518.6	516.1	513.9	510.8	507.8	505.6	501.9	500.0	498.6	496.4	494.7
15°	523.9	519.2	515.0	510.3	506.9	503.6	499.4	498.6	496.6	494.4	491.3
17.5°	517.5	510.8	503.0	498.0	493.0	488.0	483.8	483.8	483.0	480.5	475.2
20°	504.4	494.4	485.2	477.1	472.1	464.9	462.4	458.5	455.7	451.2	444.5
22.5°	483.0	472.4	460.4	452.3	443.7	435.6	430.6	424.5	422.2	415.0	406.1
25°	459.0	443.7	430.9	420.3	408.3	398.8	391.8	383.5	377.9	370.9	359.8
27.5°	430.6	414.7	400.2	388.5	376.0	362.9	350.0	340.3	330.3	322.2	315.8
30°	399.9	383.5	365.6	352.0	337.5	321.1	310.5	297.4	289.6	280.6	272.3
32.5°	359.8	345.3	324.4	308.5	290.7	277.9	269.2	256.7	247.5	240.0	235.2
35°	315.8	294.0	273.1	261.1	248.9	238.6	226.6	216.8	210.7	202.9	198.7
37.5°	267.8	242.5	224.6	214.0	201.5	196.5	189.0	183.1	177.5	172.2	168.9
40°	224.9	201.5	185.3	176.4	168.1	162.5	157.7	155.2	151.6	147.4	144.9
42.5°	189.2	170.6	154.7	146.3	139.9	139.3	136.3	134.3	132.9	130.4	126.5
45°	161.4	144.4	130.7	124.0	121.2	121.5	121.5	119.8	119.8	119.0	116.5
47.5°	142.7	127.4	117.3	112.9	111.8	112.0	111.2	110.6	110.9	110.6	109.2
50°	128.2	115.1	106.7	105.1	104.8	104.5	103.4	102.6	102.3	102.8	102.6
52.5°	113.4	102.6	97.8	97.3	97.5	97.5	97.3	97.0	97.5	98.1	97.3
55°	105.1	97.3	94.2	94.2	94.2	94.2	93.9	93.6	94.5	95.3	93.9
57.5°	97.3	91.7	90.6	90.6	90.6	90.0	90.0	90.3	91.4	93.1	91.4
60°	91.4	88.6	88.6	88.9	88.6	87.5	86.7	86.7	88.1	90.3	88.9
62.5°	85.8	84.4	85.0	84.7	84.2	82.8	81.7	81.7	83.3	85.6	86.1
63°	84.4	83.3	83.9	83.6	83.1	81.9	80.8	80.8	82.2	84.4	85.3
65°	78.3	78.6	78.9	79.1	78.9	78.6	77.2	76.6	77.8	79.4	80.5
67.5°	71.1	71.6	72.2	73.6	73.0	73.0	72.2	71.6	71.9	72.7	73.6
70°	64.4	64.9	65.8	66.3	66.6	66.9	66.3	65.5	65.8	66.1	66.6
72.5°	58.0	58.5	59.1	60.2	60.2	60.2	59.6	59.1	59.4	59.9	60.5
75°	52.1	52.4	53.0	53.8	54.1	53.5	53.5	53.0	53.2	54.1	54.6
77.5°	46.3	45.7	46.0	46.5	47.4	47.4	47.7	47.4	47.9	48.5	49.1
80°	39.6	39.0	38.5	38.7	39.9	41.2	42.6	42.6	43.5	43.8	44.6
82.5°	31.5	30.9	30.7	31.5	31.2	33.2	36.2	37.9	39.0	40.1	40.7
85°	24.5	23.1	23.7	23.7	23.1	26.2	29.0	31.2	31.5	33.2	33.4
87.5°	14.5	13.9	13.4	12.8	14.8	17.8	20.3	21.2	21.7	22.6	23.4
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°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
2.5°	464.9	467.1	466.5	466.3	466.5	466.3	465.4	465.7	465.1	465.4	464.9
5°	473.8	474.9	474.1	472.7	472.7	470.7	469.3	468.2	466.8	466.3	465.1
7.5°	482.4	481.6	480.5	478.0	476.6	474.1	472.1	469.9	468.5	466.8	464.9
10°	487.7	486.0	483.8	480.7	476.8	474.6	471.8	468.5	466.8	466.0	464.0
12.5°	490.2	485.8	482.1	476.6	471.0	466.8	463.7	460.4	459.6	458.5	457.1
15°	484.4	478.0	468.8	461.2	454.0	448.1	445.6	442.0	441.2	440.9	440.6
17.5°	464.6	454.8	445.9	435.9	429.5	424.2	421.9	421.1	419.7	419.2	419.4
20°	432.8	424.5	415.5	412.2	404.7	403.3	399.9	397.7	395.2	394.4	393.0
22.5°	395.7	385.4	379.9	377.4	374.3	367.0	365.4	363.1	359.8	357.3	356.7
25°	352.5	344.2	343.9	338.1	335.5	331.6	327.2	324.4	322.4	319.4	317.2
27.5°	308.5	305.4	300.2	295.7	294.0	291.8	285.1	283.7	281.5	279.0	276.5
30°	267.5	265.3	260.3	256.1	253.6	249.2	242.7	243.3	238.8	235.5	233.3
32.5°	227.7	226.0	221.3	220.2	212.1	209.9	203.2	198.2	193.7	190.3	187.6
35°	191.7	187.3	187.6	182.5	178.1	171.4	164.4	158.0	154.4	152.7	150.2
37.5°	165.8	161.6	157.5	151.9	146.9	142.1	138.0	136.0	133.8	134.3	134.6
40°	142.4	139.3	136.3	132.4	129.3	127.4	126.2	126.2	126.5	127.9	129.0
42.5°	125.7	123.2	121.5	120.1	120.7	120.7	121.5	122.9	124.3	126.2	127.4
45°	114.5	113.1	112.6	113.1	114.8	116.2	118.2	120.4	122.6	124.6	125.4
47.5°	107.9	107.0	107.0	108.4	110.9	113.1	116.2	118.4	121.0	122.6	123.2
50°	100.6	100.3	100.3	101.4	103.7	106.5	109.5	111.8	114.0	115.4	115.9
52.5°	96.4	95.6	95.3	96.7	98.7	101.4	104.5	106.7	108.4	109.5	109.8
55°	92.8	92.0	91.4	93.1	95.3	97.8	101.4	104.0	105.6	107.0	108.1
57.5°	89.7	88.9	88.3	90.3	92.5	95.6	98.7	101.4	103.7	105.3	106.5
60°	87.2	86.1	85.6	87.8	90.0	93.1	96.1	99.2	102.3	104.2	104.8
62.5°	84.2	83.3	82.5	83.9	85.0	87.2	90.0	93.1	95.9	97.8	97.8
63°	83.3	83.1	81.9	83.1	84.2	86.1	88.9	91.7	94.5	96.7	96.4
65°	79.7	79.7	79.1	80.3	81.4	83.3	85.6	88.6	91.1	92.8	93.1
67.5°	73.9	74.1	74.7	75.8	78.0	80.0	82.5	85.3	87.5	88.6	89.2
70°	67.2	67.7	68.8	70.5	72.5	74.1	75.8	78.6	80.5	81.7	82.2
72.5°	60.8	62.1	63.0	64.4	65.5	67.2	68.6	71.3	73.0	73.9	75.2
75°	54.9	56.0	56.6	57.4	58.5	59.1	60.8	61.9	64.1	65.2	66.9
77.5°	49.3	49.9	50.7	52.1	52.4	53.2	53.8	55.5	56.6	57.7	59.1
80°	44.3	44.9	46.0	46.8	47.1	47.7	47.9	47.7	47.4	46.5	47.7
82.5°	39.9	40.4	41.8	42.6	43.5	43.5	43.2	40.1	38.7	39.3	40.1
85°	32.9	33.4	34.8	36.5	36.8	36.5	36.8	33.7	31.8	30.9	31.8
87.5°	20.6	20.1	24.8	27.0	25.4	25.9	26.2	24.5	22.9	19.5	20.3
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°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	0°
2.5°	465.4	463.5	463.7	464.3	464.3	465.1	464.0	462.6	463.5	462.1	461.8	2.5°
5°	465.1	462.6	462.6	463.2	462.6	463.2	462.4	461.0	461.8	460.1	459.8	5°
7.5°	464.0	462.6	463.2	463.7	462.9	463.2	462.9	461.0	461.2	460.4	458.5	7.5°
10°	463.5	462.6	463.7	465.4	465.4	465.7	464.9	462.6	461.2	460.4	458.7	10°
12.5°	457.6	458.7	461.0	464.9	466.3	468.5	469.6	468.5	469.0	467.9	467.4	12.5°
15°	440.9	443.7	447.3	453.2	457.3	462.4	468.5	471.3	476.6	480.7	483.5	15°
17.5°	420.8	422.8	426.7	433.4	438.7	448.7	457.1	466.5	476.8	488.0	497.7	17.5°
20°	396.0	394.6	400.8	408.0	417.2	428.4	440.6	454.8	471.8	489.7	506.7	20°
22.5°	359.5	359.5	365.9	374.6	385.7	398.5	415.5	430.9	453.2	479.1	504.2	22.5°
25°	317.7	318.5	323.0	332.8	340.6	359.0	374.8	394.6	421.4	449.8	483.3	25°
27.5°	273.1	278.7	277.6	287.9	298.2	316.3	338.1	358.1	387.9	418.3	456.5	27.5°
30°	232.7	231.9	231.6	243.9	254.2	270.6	288.4	313.8	343.9	382.9	427.0	30°
32.5°	182.5	185.6	187.8	195.1	206.2	221.6	240.8	267.3	303.5	342.8	392.4	32.5°
35°	150.8	151.6	154.7	158.9	168.6	181.4	201.5	224.9	256.7	297.4	350.0	35°
37.5°	135.2	136.0	139.3	143.2	150.2	159.7	173.3	191.5	220.7	258.6	307.7	37.5°
40°	130.2	131.0	132.9	136.6	143.0	151.1	161.9	175.9	197.0	226.6	269.5	40°
42.5°	127.9	127.9	128.2	131.0	137.4	146.9	158.6	171.1	186.7	209.0	243.9	42.5°
45°	125.4	125.4	125.1	127.1	132.1	143.0	157.2	172.5	189.5	208.7	236.1	45°
47.5°	123.2	122.6	122.1	122.9	127.1	138.2	154.7	173.3	195.1	219.1	246.6	47.5°
50°	115.4	115.4	115.1	115.4	119.3	131.0	149.9	172.5	200.1	231.0	264.5	50°
52.5°	109.8	110.1	110.4	110.4	113.4	125.4	146.3	172.8	205.7	242.7	285.1	52.5°
55°	108.4	109.0	109.0	108.4	110.9	121.8	143.0	172.0	209.6	255.8	307.1	55°
57.5°	106.7	107.0	107.3	106.7	108.4	117.9	138.2	168.1	208.5	260.9	323.6	57.5°
60°	104.5	103.4	103.1	102.3	103.4	110.9	129.9	159.7	201.8	258.6	329.1	60°
62.5°	98.4	97.5	96.7	95.9	96.7	102.3	120.7	149.4	190.6	249.7	324.7	62.5°
63°	97.0	96.4	95.6	94.8	94.8	100.9	117.6	146.9	187.8	247.2	323.0	63°
65°	93.1	92.8	92.2	91.4	91.1	95.9	110.6	135.4	174.7	236.1	312.4	65°
67.5°	88.6	88.6	88.3	87.2	85.8	88.6	98.9	118.4	151.9	207.3	286.2	67.5°
70°	82.2	82.2	81.9	81.4	79.7	81.7	88.3	101.2	125.1	169.4	240.0	70°
72.5°	75.8	75.8	76.6	76.4	76.6	76.9	80.3	87.2	101.7	131.8	181.4	72.5°
75°	67.4	68.8	69.1	69.7	70.0	69.7	71.3	75.5	83.9	101.2	132.4	75°
77.5°	60.5	62.4	62.1	61.6	61.3	61.6	61.3	63.3	69.4	80.3	98.1	77.5°
80°	49.9	51.8	51.8	51.6	51.0	51.6	51.0	53.0	58.0	67.4	78.0	80°
82.5°	41.0	42.4	43.2	43.8	43.2	45.4	45.4	44.9	48.8	57.1	65.8	82.5°
85°	32.9	34.3	35.1	36.2	36.8	36.2	36.0	35.4	37.6	44.3	50.2	85°
87.5°	20.9	22.0	22.0	22.3	22.3	23.1	21.5	19.5	17.8	25.4	26.5	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°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
461.0	461.0	461.0	461.0	461.0	461.0	461.0
461.0	461.0	461.2	460.4	461.2	461.2	460.4
459.0	458.5	458.5	458.2	458.7	458.5	458.2
457.3	457.3	456.2	455.4	455.1	456.2	455.7
456.8	456.2	455.9	455.4	455.7	456.5	457.1
466.8	464.9	465.4	465.1	465.4	466.3	467.9
485.2	485.2	486.6	483.5	484.9	486.3	488.6
505.8	510.8	513.4	513.1	513.6	514.7	517.3
523.4	539.3	550.4	553.2	560.7	562.4	558.5
531.2	559.6	584.7	601.4	620.1	627.6	629.8
515.3	556.3	597.5	636.0	672.8	693.9	712.6
498.9	547.4	602.3	659.7	719.6	773.7	814.1
476.0	540.1	614.2	691.7	771.1	846.4	913.8
450.9	528.4	615.4	709.6	807.7	901.3	983.0
415.0	501.1	597.5	706.8	820.5	937.8	1039.8
373.7	457.6	565.7	690.6	819.6	956.5	1078.8
329.7	415.5	529.2	663.0	808.8	962.3	1106.1
296.5	381.5	493.0	636.8	792.6	958.4	1119.2
279.5	352.3	463.5	611.2	774.5	949.0	1124.8
282.9	344.5	445.9	590.0	758.3	938.6	1123.4
301.5	356.2	445.6	582.2	748.0	929.2	1119.5
329.7	382.6	461.8	591.4	753.6	928.3	1119.2
361.5	419.7	500.8	616.2	777.3	943.4	1125.9
392.1	464.9	551.0	671.7	822.1	981.0	1153.0
410.2	506.1	615.4	750.0	891.3	1047.1	1212.3
414.4	530.9	672.5	826.9	986.0	1142.6	1304.8
414.1	533.4	682.2	842.8	1005.3	1164.7	1328.5
407.7	538.4	708.4	895.2	1082.4	1259.1	1427.5
387.7	529.5	722.9	943.9	1159.1	1363.4	1576.3
341.7	488.8	705.9	959.8	1204.8	1432.5	1675.5
267.5	403.3	609.5	877.3	1142.9	1370.6	1678.0
188.1	285.1	469.0	720.4	934.2	1158.3	1498.8
131.0	184.8	304.6	484.6	674.2	845.0	1114.2
95.9	122.9	182.5	289.8	409.1	528.1	691.4
73.9	88.6	116.8	175.0	231.0	295.7	416.9
51.8	58.5	72.2	108.1	155.0	211.5	305.4
22.6	26.5	34.8	63.8	104.8	100.9	96.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)