

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: P955425

Luminaire Tested: **GALN-SB8B-850-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-850-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

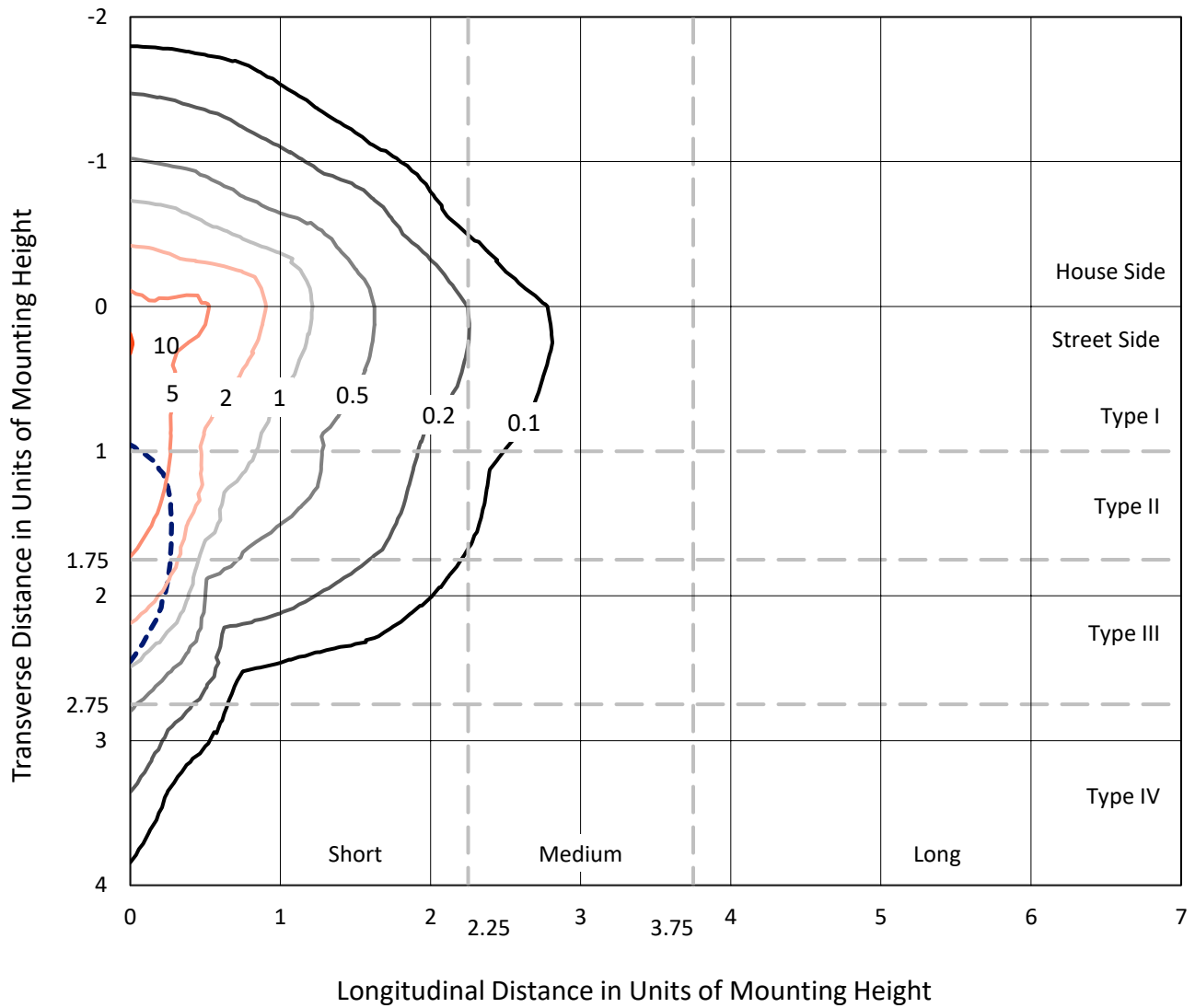
Lumens per Lamp: N/A  
Luminaire Lumens: 33240 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

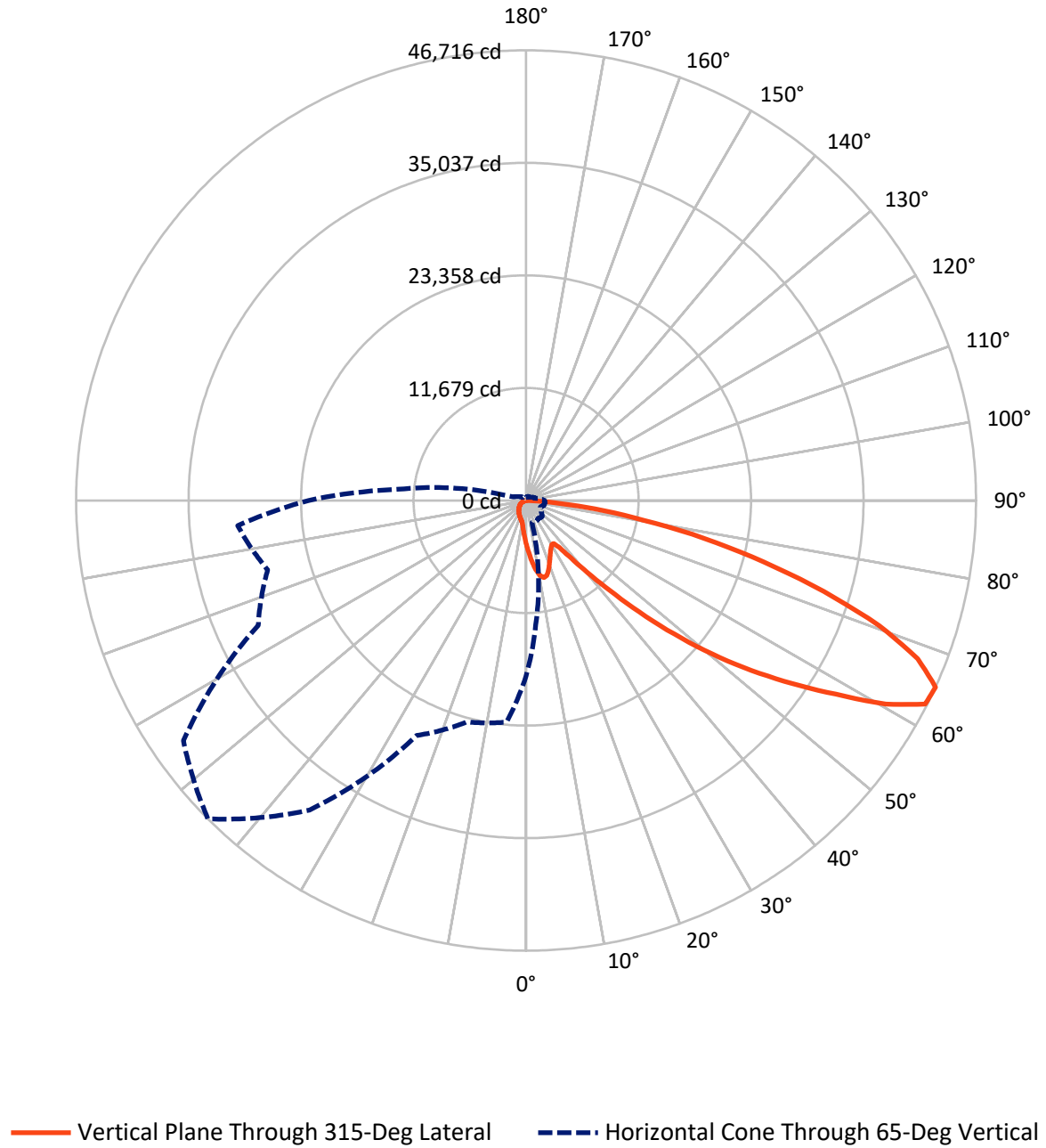
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4655.0	0.0	4655.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	28585.0	0.0	28585.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	33240.0	0.0	33240.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.2	1.4
10°-20°	1358.4	4.1
20°-30°	2001.2	6.0
30°-40°	2571.0	7.7
40°-50°	4158.1	12.5
50°-60°	7291.6	21.9
60°-70°	9123.8	27.4
70°-80°	5331.5	16.0
80°-90°	951.2	2.9
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°	33240.0	100.0
0°-180°	33240.0	100.0

**Coefficient of Utilization**



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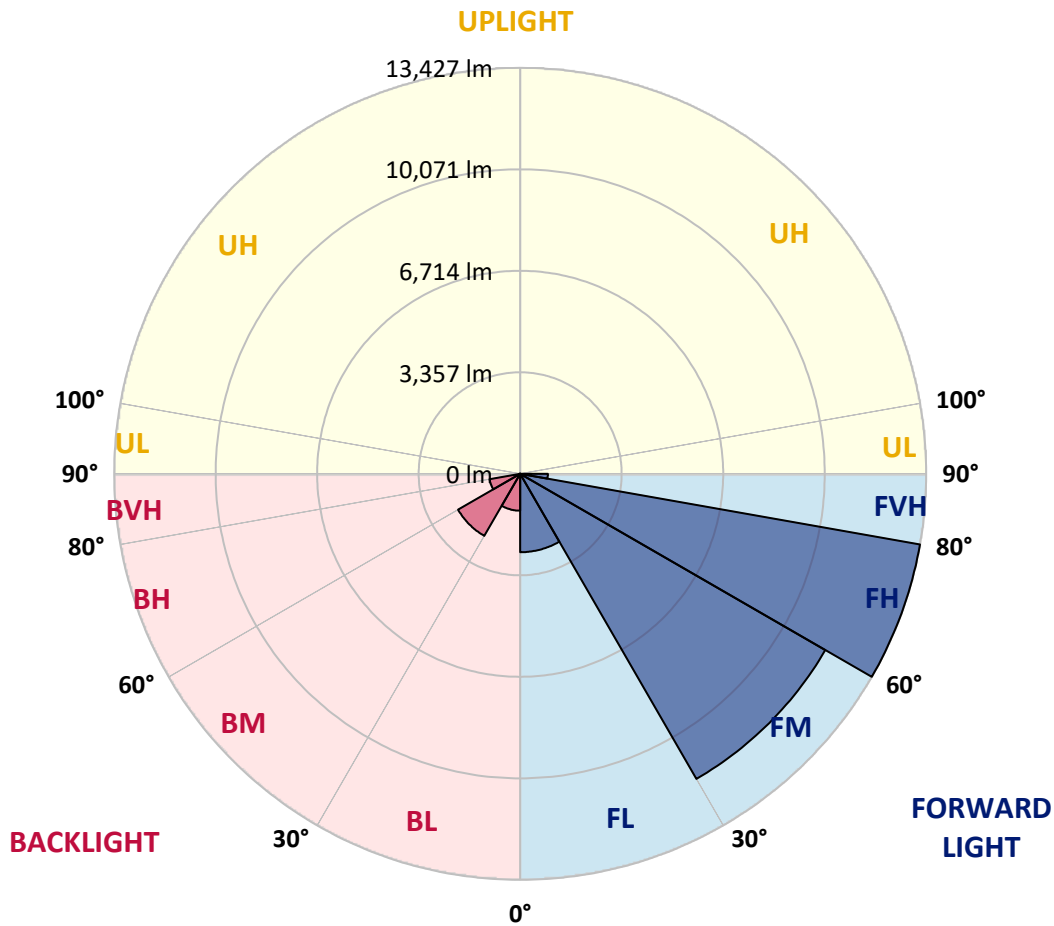
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2592.6	7.8			
FM (30°-60°)	11650.3	35.0			
FH (60°-80°)	13427.4	40.4			G5
FVH (80°-90°)	914.7	2.8			G5
BL (0°-30°)	1220.2	3.7	B3/2500		
BM (30°-60°)	2370.5	7.1	B2/2500		
BH (60°-80°)	1027.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	36.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7
2.5°	5200.3	5111.0	5058.4	4927.8	4797.3	4692.0	4550.0	4456.1	4343.9	4236.3
5°	5795.7	5651.4	5477.4	5239.3	5021.7	4799.6	4584.4	4371.4	4147.0	3940.9
7.5°	6299.5	6091.1	5784.3	5468.3	5191.2	4923.3	4671.4	4389.7	4117.2	3794.3
10°	6684.2	6418.6	6015.5	5601.1	5282.8	5012.6	4767.5	4529.4	4254.6	3865.3
12.5°	6917.8	6633.8	6155.2	5669.8	5305.7	5003.4	4813.3	4708.0	4600.4	4213.4
15°	7089.5	6782.7	6253.7	5717.9	5253.0	4882.0	4742.4	4847.7	4971.3	4724.0
17.5°	7268.1	6945.2	6381.9	5738.5	5111.0	4646.2	4586.6	4859.1	5145.4	5133.9
20°	7437.6	7117.0	6494.1	5724.7	4882.0	4359.9	4412.6	4760.7	5092.7	5232.4
22.5°	7632.2	7293.3	6601.7	5672.1	4584.4	4092.0	4256.9	4605.0	4895.8	5060.7
25°	7870.3	7515.4	6752.9	5594.2	4263.8	3869.9	4098.9	4424.1	4659.9	4774.4
27.5°	8126.8	7781.0	6954.4	5553.0	4005.0	3711.9	3920.3	4208.8	4419.5	4499.6
30°	8445.1	8090.2	7192.5	5507.2	3835.6	3620.3	3734.8	3959.2	4165.3	4245.5
32.5°	8793.2	8433.7	7421.5	5397.3	3732.5	3551.6	3553.9	3695.9	3883.7	3979.8
35°	9228.3	8845.8	7666.5	5156.8	3650.1	3471.5	3377.6	3446.3	3602.0	3716.5
37.5°	9848.8	9386.3	7966.5	4813.3	3528.7	3347.8	3192.1	3208.1	3327.2	3453.2
40°	10705.2	10112.1	8319.2	4456.1	3354.7	3173.8	2988.3	2981.4	3068.5	3192.1
42.5°	11863.9	11071.6	8742.8	4114.9	3187.5	2963.1	2773.1	2761.6	2830.3	2937.9
45°	13393.6	12299.0	9262.6	3821.8	3057.0	2757.0	2569.3	2564.7	2621.9	2715.8
47.5°	15351.4	14005.0	9782.4	3622.6	2988.3	2594.4	2402.1	2411.3	2461.6	2546.4
50°	17886.3	16228.4	9940.4	3521.8	2988.3	2507.4	2253.3	2299.0	2340.3	2404.4
52.5°	20925.0	18362.6	9418.3	3430.3	3006.6	2518.9	2127.3	2225.8	2255.5	2310.5
55°	23741.6	19409.1	8097.0	3304.3	3011.2	2589.9	2019.7	2166.2	2221.2	2241.8
57.5°	25376.5	19049.6	6546.8	3091.3	2992.9	2638.0	1951.0	2093.0	2198.3	2212.0
60°	25065.1	17787.9	4820.2	2928.8	2857.8	2619.6	1930.4	1980.8	2147.9	2168.5
62.5°	22665.3	15672.0	3345.5	2802.8	2560.1	2539.5	1923.5	1804.4	2038.0	2088.4
65°	18218.4	12337.9	2363.2	2413.5	2244.1	2365.5	1886.9	1621.2	1905.2	1973.9
67.5°	13217.2	8348.9	1706.0	1955.6	2033.4	2083.8	1804.4	1488.4	1754.1	1845.7
70°	8481.7	4508.8	1197.6	1291.5	1712.8	1770.1	1662.5	1369.4	1600.6	1706.0
72.5°	6029.3	2663.1	861.0	904.5	1376.2	1474.7	1463.2	1236.5	1422.0	1550.3
75°	4160.7	1467.8	581.6	645.7	998.4	1197.6	1128.9	1062.5	1204.5	1335.0
77.5°	2608.2	657.2	348.1	448.8	654.9	941.1	774.0	822.1	938.9	1060.2
80°	1451.8	254.2	194.6	297.7	357.2	684.7	428.2	529.0	691.5	778.6
82.5°	316.0	32.1	87.0	128.2	139.7	398.4	226.7	306.8	435.1	428.2
85°	0.0	0.0	16.0	18.3	9.2	171.7	82.4	100.8	142.0	132.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
90°	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4602.7	0°	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7
4140.1	2.5°	4121.8	4009.6	3927.2	3885.9	3851.6	3883.7	3902.0	3902.0	3979.8	4025.6
3815.0	5°	3734.8	3533.3	3379.9	3276.8	3215.0	3235.6	3258.5	3283.7	3382.2	3448.6
3622.6	7.5°	3466.9	3157.8	2924.2	2779.9	2704.4	2715.8	2731.8	2752.4	2848.6	2915.0
3650.1	10°	3416.5	2972.3	2642.5	2452.5	2360.9	2344.8	2335.7	2328.8	2386.1	2436.4
3961.5	12.5°	3622.6	2981.4	2521.2	2289.9	2177.7	2129.6	2074.6	2031.1	2040.3	2072.3
4433.2	15°	3991.3	3098.2	2482.2	2205.2	2065.5	1985.3	1921.2	1868.5	1857.1	1868.5
4845.4	17.5°	4412.6	3256.2	2477.7	2131.9	1957.9	1875.4	1822.8	1774.7	1758.6	1760.9
5076.7	20°	4692.0	3382.2	2463.9	2049.5	1854.8	1781.5	1735.7	1687.6	1671.6	1676.2
5012.6	22.5°	4719.5	3448.6	2443.3	1957.9	1751.8	1689.9	1644.1	1600.6	1598.3	1598.3
4772.1	25°	4570.6	3448.6	2399.8	1875.4	1653.3	1598.3	1557.1	1504.5	1513.6	1518.2
4499.6	27.5°	4339.3	3366.1	2317.4	1809.0	1568.6	1511.3	1470.1	1422.0	1433.5	1440.3
4245.5	30°	4110.4	3260.8	2218.9	1733.4	1488.4	1422.0	1392.3	1351.0	1355.6	1364.8
3993.6	32.5°	3897.4	3148.6	2102.1	1671.6	1408.3	1341.9	1319.0	1273.2	1280.0	1289.2
3746.3	35°	3686.7	3024.9	1964.7	1598.3	1335.0	1268.6	1250.3	1197.6	1202.2	1215.9
3499.0	37.5°	3460.0	2894.4	1852.5	1525.1	1264.0	1195.3	1177.0	1122.0	1126.6	1142.7
3242.5	40°	3221.9	2766.2	1742.6	1447.2	1188.5	1119.8	1103.7	1044.2	1048.8	1067.1
2990.6	42.5°	2981.4	2626.5	1657.9	1346.5	1110.6	1037.3	1021.3	966.3	973.2	993.8
2770.8	45°	2759.3	2459.3	1602.9	1234.3	1037.3	954.9	938.9	888.5	902.2	925.1
2585.3	47.5°	2569.3	2287.6	1580.0	1140.4	959.5	870.2	856.4	815.2	838.1	863.3
2427.3	50°	2406.7	2122.7	1550.3	1044.2	886.2	796.9	783.1	755.7	785.4	810.6
2319.7	52.5°	2289.9	1935.0	1486.1	957.2	822.1	735.1	730.5	716.7	744.2	767.1
2239.5	55°	2189.1	1740.3	1383.1	881.6	764.8	682.4	687.0	680.1	703.0	721.3
2191.4	57.5°	2097.5	1570.9	1252.6	822.1	703.0	636.6	650.3	641.2	652.6	664.1
2141.0	60°	1987.6	1399.1	1096.9	755.7	629.7	590.8	606.8	581.6	579.3	583.9
2049.5	62.5°	1825.0	1167.8	934.3	673.2	565.6	540.4	547.3	499.2	462.6	462.6
1914.3	65°	1598.3	938.9	783.1	581.6	492.3	471.7	467.1	398.4	348.1	343.5
1767.8	67.5°	1335.0	771.7	650.3	490.0	409.9	396.2	400.7	350.4	300.0	295.4
1621.2	70°	1087.7	638.9	524.4	391.6	316.0	329.7	350.4	300.0	251.9	245.0
1449.5	72.5°	883.9	508.4	409.9	300.0	233.6	272.5	297.7	245.0	199.2	194.6
1236.5	75°	682.4	373.3	293.1	203.8	169.5	210.7	233.6	178.6	142.0	135.1
957.2	77.5°	455.7	231.3	164.9	128.2	100.8	144.3	155.7	93.9	82.4	80.1
696.1	80°	277.1	107.6	71.0	61.8	34.3	52.7	61.8	38.9	43.5	45.8
371.0	82.5°	139.7	29.8	11.4	2.3	0.0	0.0	18.3	9.2	18.3	22.9
100.8	85°	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	11.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	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):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
4602.7	0°	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7
4043.9	2.5°	4172.2	4268.4	4359.9	4506.5	4657.6	4806.5	4957.6	5104.2	5156.8	5195.8
3492.1	5°	3691.3	3872.2	4082.9	4373.7	4685.1	5005.7	5330.9	5628.5	5763.6	5855.2
2972.3	7.5°	3194.4	3430.3	3732.5	4169.9	4657.6	5168.3	5678.9	6148.4	6365.9	6542.2
2482.2	10°	2702.1	2958.5	3340.9	3840.1	4499.6	5232.4	5937.7	6583.4	6865.1	7087.2
2129.6	12.5°	2269.3	2509.7	2910.4	3462.3	4252.3	5182.0	6086.5	6862.8	7194.8	7444.4
1877.7	15°	1964.7	2134.2	2489.1	3084.5	3959.2	5019.4	6095.7	6995.6	7359.7	7620.7
1772.4	17.5°	1795.3	1852.5	2083.8	2699.8	3634.1	4806.5	6011.0	7041.4	7430.7	7673.4
1678.5	20°	1703.7	1712.8	1777.0	2200.6	3217.3	4607.3	5930.8	7087.2	7497.1	7700.9
1612.1	22.5°	1630.4	1630.4	1646.4	1799.9	2679.2	4369.1	5905.6	7167.4	7588.7	7714.6
1536.5	25°	1564.0	1564.0	1568.6	1609.8	2122.7	4005.0	5889.6	7291.0	7714.6	7749.0
1460.9	27.5°	1495.3	1497.6	1497.6	1520.5	1710.5	3510.4	5820.9	7451.3	7865.8	7794.8
1387.7	30°	1426.6	1431.2	1431.2	1447.2	1513.6	2931.1	5685.8	7643.6	8062.7	7854.3
1314.4	32.5°	1357.9	1362.5	1362.5	1376.2	1424.3	2340.3	5516.3	7820.0	8261.9	7879.5
1243.4	35°	1286.9	1293.8	1289.2	1307.5	1357.9	1861.7	5301.1	7996.3	8477.2	7959.7
1174.7	37.5°	1215.9	1220.5	1218.2	1236.5	1293.8	1607.5	5051.5	8129.1	8770.3	8138.3
1101.4	40°	1144.9	1142.7	1142.7	1163.3	1225.1	1534.2	4737.8	8339.8	9191.6	8452.0
1028.2	42.5°	1071.7	1071.7	1067.1	1090.0	1165.6	1479.3	4437.8	8717.6	9805.3	8951.2
959.5	45°	1005.3	1003.0	993.8	1014.4	1108.3	1383.1	4332.5	9422.9	10712.1	9759.5
890.8	47.5°	941.1	938.9	916.0	934.3	1039.6	1296.1	4726.3	10577.0	11969.2	10948.0
835.8	50°	883.9	886.2	842.7	858.7	970.9	1229.7	5580.5	12074.6	13638.6	12548.6
790.0	52.5°	831.2	831.2	774.0	783.1	886.2	1170.1	6393.4	13698.1	15841.5	14781.2
741.9	55°	778.6	774.0	709.9	714.4	801.5	1085.4	6514.7	15282.7	18845.8	18140.5
689.3	57.5°	719.0	709.9	650.3	650.3	723.6	1023.6	5646.9	16500.9	22573.7	23077.5
590.8	60°	645.7	638.9	600.0	588.5	661.8	1078.5	3984.4	16642.9	24978.1	29642.6
469.4	62.5°	551.9	561.0	540.4	524.4	602.2	1119.8	2360.9	15500.3	24396.5	31731.0
364.1	65°	435.1	471.7	467.1	455.7	661.8	943.4	1394.5	13306.5	22612.7	30045.6
318.3	67.5°	371.0	396.2	389.3	389.3	693.8	716.7	877.0	10396.1	20157.9	28046.6
265.6	70°	316.0	341.2	316.0	316.0	524.4	435.1	606.8	7258.9	17508.5	25834.5
213.0	72.5°	261.0	286.2	258.8	240.4	419.0	325.2	444.2	4536.3	14994.2	23530.9
151.1	75°	199.2	229.0	208.4	185.5	277.1	242.7	336.6	2635.7	12422.6	20132.7
91.6	77.5°	125.9	164.9	155.7	130.5	203.8	176.3	242.7	1568.6	9585.5	15731.5
55.0	80°	77.9	84.7	87.0	82.4	116.8	119.1	164.9	893.1	6560.5	10964.0
34.3	82.5°	50.4	50.4	38.9	43.5	57.2	68.7	93.9	336.6	3856.2	6675.0
20.6	85°	36.6	32.1	20.6	20.6	27.5	34.3	36.6	103.0	1564.0	2635.7
9.2	87.5°	18.3	16.0	6.9	9.2	13.7	11.4	9.2	4.6	393.9	842.7
0.0	90°	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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
4602.7	0°	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7
5282.8	2.5°	5328.6	5399.6	5404.1	5404.1	5342.3	5340.0	5214.1	5200.3
6061.3	5°	6274.3	6320.1	6331.5	6308.6	6185.0	6093.4	5848.4	5795.7
6855.9	7.5°	7139.9	7231.5	7231.5	7176.5	6975.0	6787.2	6432.3	6299.5
7513.1	10°	7831.4	7936.8	7913.9	7801.7	7547.5	7288.7	6858.2	6684.2
7911.6	12.5°	8168.0	8275.7	8216.1	8087.9	7840.6	7568.1	7114.7	6917.8
8026.1	15°	8161.2	8131.4	8069.6	8053.5	7934.5	7728.4	7304.7	7089.5
7955.1	17.5°	7870.3	7618.5	7570.4	7730.7	7881.8	7831.4	7469.6	7268.1
7785.6	20°	7410.1	6970.4	6926.9	7233.8	7664.3	7884.1	7623.0	7437.6
7540.6	22.5°	6924.6	6450.6	6349.9	6688.8	7336.8	7900.1	7817.7	7632.2
7270.4	25°	6464.4	5988.1	5887.3	6203.3	6972.7	7872.6	8028.3	7870.3
7011.6	27.5°	6079.7	5619.4	5525.5	5841.5	6622.4	7794.8	8239.0	8126.8
6755.2	30°	5782.0	5356.0	5287.4	5591.9	6320.1	7698.6	8506.9	8445.1
6517.0	32.5°	5607.9	5296.5	5321.7	5571.3	6157.5	7593.3	8763.4	8793.2
6400.2	35°	5779.7	5793.4	6013.2	6116.3	6308.6	7577.2	9111.5	9228.3
6539.9	37.5°	6633.8	7110.1	7565.8	7481.1	7048.3	7762.7	9631.3	9848.8
7149.0	40°	8087.9	9065.7	9805.3	9482.4	8392.4	8330.6	10380.1	10705.2
8229.9	42.5°	9864.8	11522.7	12740.9	11875.4	10125.9	9324.4	11449.4	11863.9
9537.4	45°	11740.3	14552.2	16471.2	14671.3	11973.8	10716.7	13068.4	13393.6
10762.5	47.5°	13716.4	18234.4	20716.6	17771.8	13686.7	12301.3	15275.8	15351.4
11923.5	50°	15878.1	22271.5	25044.5	20870.0	15340.0	14117.2	17973.3	17886.3
13276.8	52.5°	17936.7	26423.0	29280.8	23982.0	16791.8	16370.4	21103.6	20925.0
15127.0	55°	19901.4	30572.3	33542.3	26972.6	18161.1	19347.3	24822.4	23741.6
17794.7	57.5°	22179.9	34302.5	37934.3	29976.9	20075.5	23212.6	28980.8	25376.5
22903.5	60°	25548.3	38541.1	42901.1	34094.2	23716.4	27274.9	30471.5	25065.1
29022.1	62.5°	29848.7	42438.5	46512.2	38128.9	27373.3	28039.7	28275.5	22665.3
27774.1	65°	30684.5	43425.5	46716.0	39207.5	26901.6	23785.1	23084.4	18218.4
24808.7	67.5°	28467.9	41641.6	43867.4	37199.2	23796.5	18380.9	17323.0	13217.2
22862.2	70°	25981.1	38241.1	38902.9	33785.0	20929.6	13519.5	11699.0	8481.7
21529.5	72.5°	23432.4	33704.9	32335.5	29340.3	18394.7	9844.2	8438.2	6029.3
19631.2	75°	20405.2	27739.7	25470.4	24378.2	15230.1	7726.1	6104.8	4160.7
16885.6	77.5°	16340.6	19525.9	18919.1	18896.2	11444.9	5644.6	4073.7	2608.2
13192.0	80°	11527.3	12672.2	12363.1	14231.7	7678.0	4094.3	2452.5	1451.8
9182.5	82.5°	5580.5	7007.1	7192.5	8474.9	3734.8	2409.0	565.6	316.0
3590.5	85°	2184.6	3379.9	2850.9	3217.3	1048.8	670.9	13.7	0.0
590.8	87.5°	245.0	391.6	359.5	283.9	128.2	27.5	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)