

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: P948283

Luminaire Tested: **GALN-SB3B-850-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948283  
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-SB3B-850-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

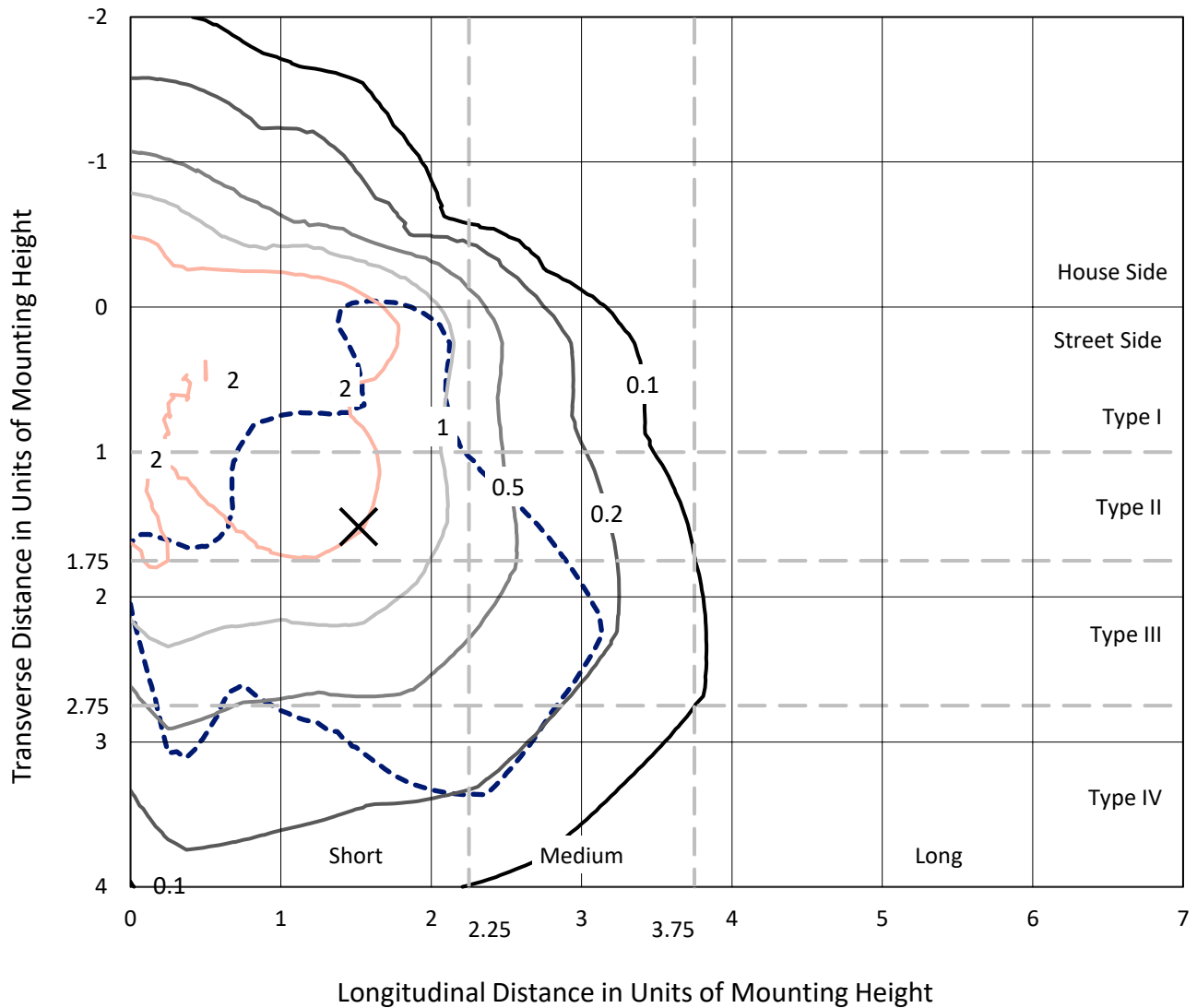
Lumens per Lamp: N/A  
Luminaire Lumens: 12334 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

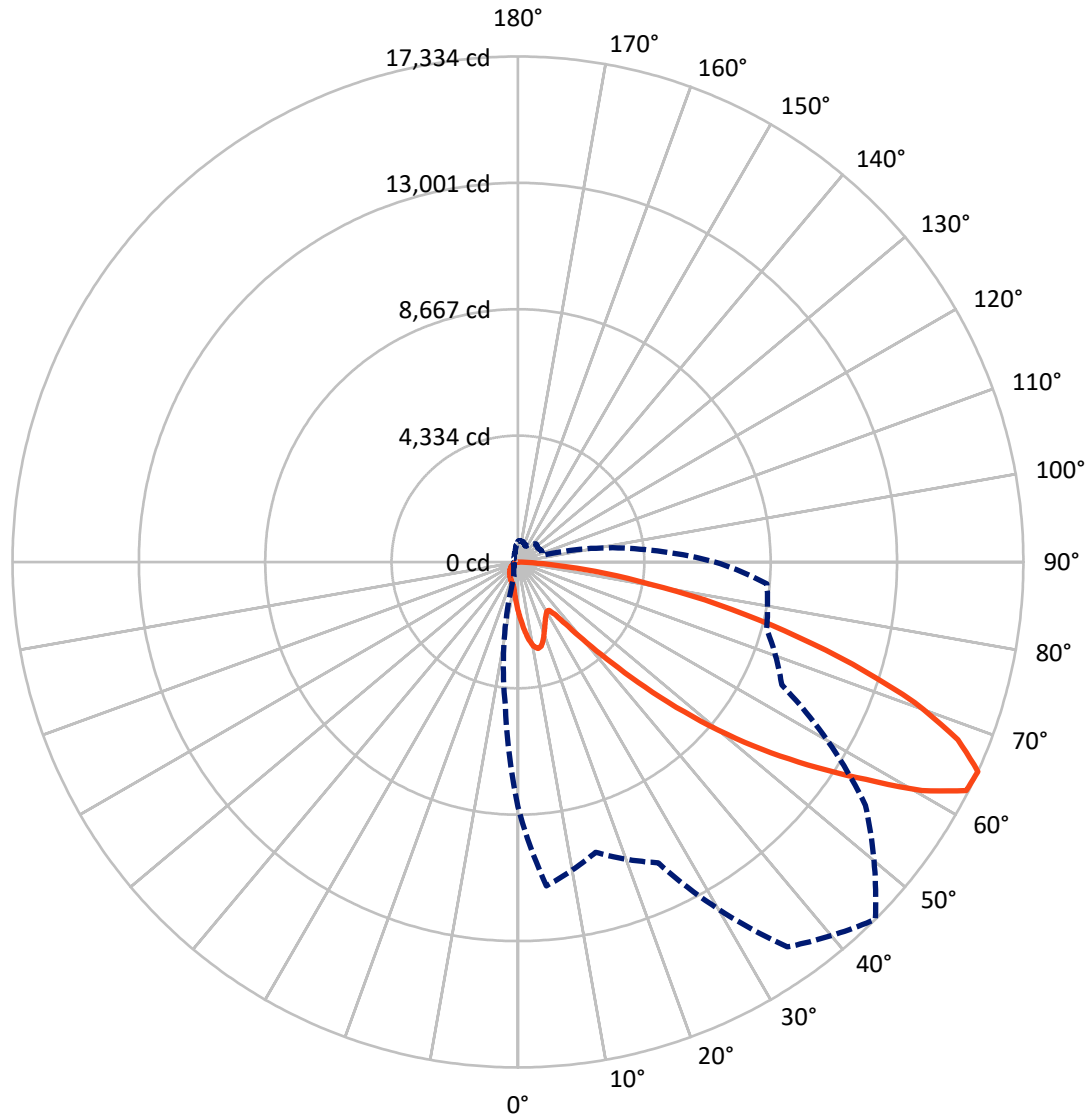
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2451.6	0.0	2451.6
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	9882.4	0.0	9882.4
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	12334.0	0.0	12334.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.1	1.4
10°-20°	504.0	4.1
20°-30°	742.6	6.0
30°-40°	954.0	7.7
40°-50°	1542.9	12.5
50°-60°	2705.6	21.9
60°-70°	3385.5	27.4
70°-80°	1978.3	16.0
80°-90°	353.0	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°	12334.0	100.0
0°-180°	12334.0	100.0



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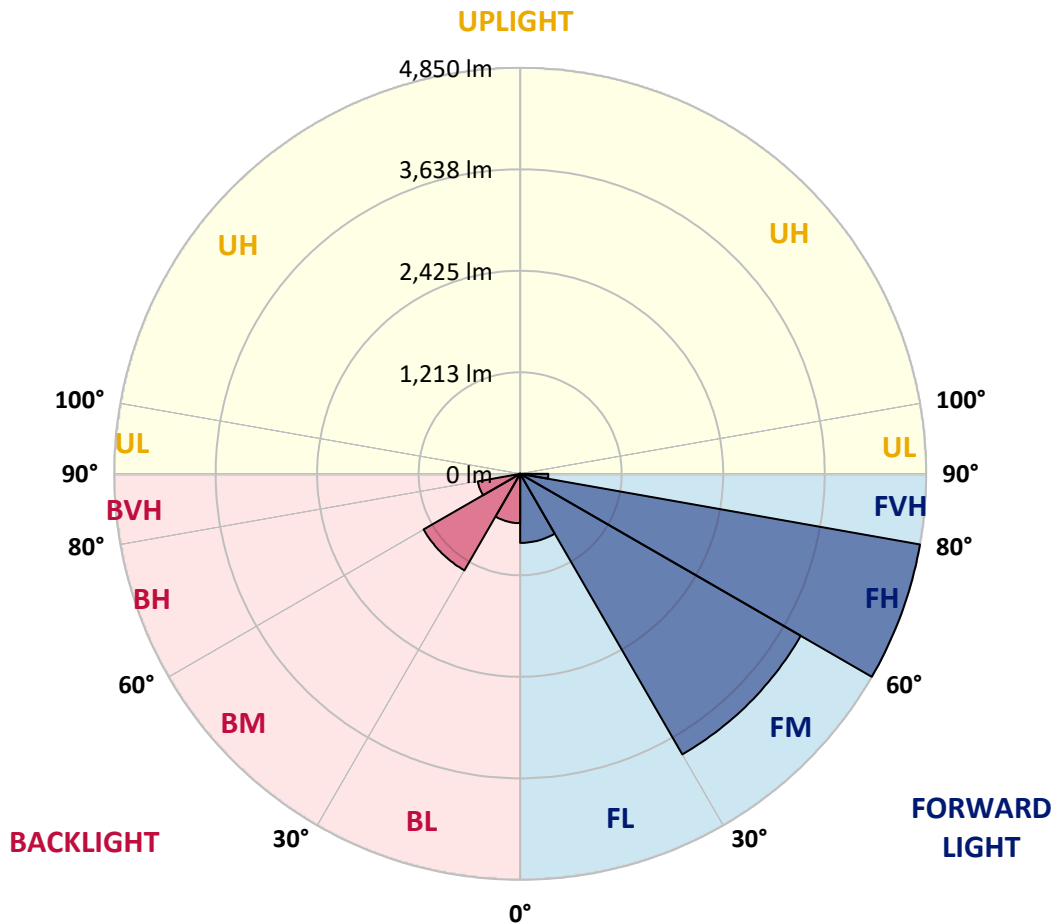
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.3	6.7			
FM (30°-60°)	3870.6	31.4			
FH (60°-80°)	4850.1	39.3			G2/5000
FVH (80°-90°)	336.4	2.7			G3/500
BL (0°-30°)	589.5	4.8	B2/1000		
BM (30°-60°)	1331.9	10.8	B2/2500		
BH (60°-80°)	513.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	16.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9
2.5°	1913.5	1927.9	1960.2	1977.2	2003.6	2005.3	2005.3	1982.3	1981.5	1934.7
5°	2138.7	2172.6	2249.1	2328.1	2345.1	2349.4	2340.9	2295.0	2261.0	2170.1
7.5°	2362.1	2427.5	2544.0	2649.3	2683.3	2683.3	2662.9	2588.1	2518.5	2386.8
10°	2547.4	2629.8	2787.8	2905.9	2945.0	2936.5	2894.9	2800.6	2704.5	2544.8
12.5°	2669.7	2762.3	2935.7	3030.8	3070.8	3048.7	3001.1	2909.3	2808.2	2640.0
15°	2730.9	2827.7	2978.1	3028.3	3017.2	2994.3	2988.3	2944.2	2867.7	2710.5
17.5°	2757.2	2847.3	2951.8	2920.4	2826.9	2809.1	2868.5	2924.6	2905.9	2771.7
20°	2781.9	2857.5	2888.9	2749.6	2586.4	2570.3	2684.2	2843.9	2925.5	2828.6
22.5°	2815.9	2862.6	2798.0	2569.4	2393.6	2356.2	2481.9	2722.4	2931.4	2900.8
25°	2862.6	2875.3	2697.7	2398.7	2221.9	2184.5	2301.8	2587.3	2921.2	2979.0
27.5°	2918.7	2892.3	2601.7	2255.9	2085.1	2050.3	2167.5	2457.3	2892.3	3057.2
30°	2991.7	2914.4	2506.6	2145.5	1987.4	1961.9	2074.9	2345.1	2856.6	3156.6
32.5°	3065.7	2923.8	2418.2	2080.9	1965.3	1974.7	2067.3	2284.8	2817.6	3251.7
35°	3145.5	2953.5	2374.9	2144.6	2149.7	2231.3	2269.5	2340.9	2811.6	3380.9
37.5°	3254.3	3019.8	2426.7	2461.5	2638.3	2807.4	2775.9	2615.3	2880.4	3573.8
40°	3410.6	3136.2	2652.7	3001.1	3363.9	3638.3	3518.5	3114.1	3091.1	3851.6
42.5°	3638.3	3321.4	3053.8	3660.4	4275.6	4727.6	4406.5	3757.3	3459.9	4248.4
45°	3974.8	3621.4	3538.9	4356.3	5399.7	6111.8	5443.9	4443.0	3976.5	4849.1
47.5°	4441.3	4062.3	3993.5	5089.6	6766.0	7687.1	6594.4	5078.6	4564.5	5668.2
50°	5060.7	4656.3	4424.3	5891.7	8264.0	9293.0	7744.0	5692.0	5238.3	6669.2
52.5°	5878.1	5484.7	4926.5	6655.6	9804.5	10864.9	8898.7	6230.7	6074.4	7830.7
55°	6992.9	6731.2	5613.0	7384.6	11344.1	12446.2	10008.4	6738.8	7179.0	9210.6
57.5°	8376.2	8563.1	6602.9	8230.0	12728.3	14075.9	11123.2	7449.2	8613.2	10753.6
60°	9268.4	10999.2	8498.5	9479.9	14301.0	15918.8	12650.9	8800.2	10120.6	11306.7
62.5°	9052.5	11774.1	10768.9	11075.6	15747.2	17258.8	14148.1	10157.1	10404.4	10491.9
65°	8390.6	11148.7	10305.8	11385.8	16113.4	17334.4	14548.3	9982.1	8825.7	8565.7
67.5°	7479.8	10406.9	9205.5	10563.3	15451.5	16277.4	13803.1	8829.9	6820.4	6427.9
70°	6496.7	9586.1	8483.2	9640.5	14189.7	14435.3	12536.2	7766.1	5016.5	4341.0
72.5°	5563.7	8731.4	7988.7	8694.8	12506.5	11998.4	10887.0	6825.5	3652.8	3131.1
75°	4609.5	7470.4	7284.3	7571.5	10293.1	9451.0	9045.7	5651.2	2866.8	2265.3
77.5°	3556.8	5837.3	6265.6	6063.3	7245.3	7020.1	7011.6	4246.7	2094.5	1511.6
80°	2434.3	4068.3	4895.0	4277.3	4702.1	4587.4	5280.8	2849.0	1519.2	910.0
82.5°	1430.9	2476.8	3407.2	2070.7	2600.0	2668.9	3144.7	1385.8	893.9	209.9
85°	580.3	978.0	1332.3	810.6	1254.1	1057.9	1193.8	389.2	249.0	5.1
87.5°	146.1	312.7	219.2	90.9	145.3	133.4	105.4	47.6	10.2	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1707.9	0°	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9
1929.6	2.5°	1896.5	1877.0	1828.5	1780.1	1741.0	1688.3	1653.5	1611.9	1571.9	1536.2
2150.5	5°	2097.0	2032.4	1944.1	1863.4	1780.9	1701.1	1622.0	1538.8	1462.3	1415.6
2337.5	7.5°	2260.2	2146.3	2029.0	1926.2	1826.8	1733.4	1628.8	1527.7	1407.9	1344.2
2480.2	10°	2381.7	2232.1	2078.3	1960.2	1860.0	1769.0	1680.7	1578.7	1434.3	1354.4
2566.9	12.5°	2461.5	2283.9	2103.8	1968.7	1856.6	1786.0	1746.9	1707.0	1563.4	1470.0
2630.6	15°	2516.8	2320.5	2121.7	1949.2	1811.5	1759.7	1798.8	1844.7	1752.9	1645.0
2696.9	17.5°	2577.1	2368.1	2129.3	1896.5	1724.0	1701.9	1803.0	1909.2	1905.0	1797.9
2759.8	20°	2640.8	2409.7	2124.2	1811.5	1617.8	1637.3	1766.5	1889.7	1941.5	1883.7
2832.0	22.5°	2706.2	2449.6	2104.7	1701.1	1518.4	1579.6	1708.7	1816.6	1877.8	1860.0
2920.4	25°	2788.7	2505.7	2075.8	1582.1	1436.0	1520.9	1641.6	1729.1	1771.6	1770.7
3015.5	27.5°	2887.2	2580.5	2060.5	1486.1	1377.3	1454.7	1561.7	1639.9	1669.6	1669.6
3133.6	30°	3001.9	2668.9	2043.5	1423.2	1343.4	1385.8	1469.1	1545.6	1575.3	1575.3
3262.8	32.5°	3129.4	2753.8	2002.7	1385.0	1317.9	1318.7	1371.4	1441.1	1476.8	1481.8
3424.2	35°	3282.3	2844.7	1913.5	1354.4	1288.1	1253.3	1278.8	1336.6	1379.0	1390.1
3654.5	37.5°	3482.9	2956.0	1786.0	1309.4	1242.2	1184.5	1190.4	1234.6	1281.3	1298.3
3972.3	40°	3752.2	3086.9	1653.5	1244.8	1177.7	1108.8	1106.3	1138.6	1184.5	1203.2
4402.2	42.5°	4108.2	3244.1	1526.9	1182.8	1099.5	1029.0	1024.7	1050.2	1090.1	1109.7
4969.8	45°	4563.7	3437.0	1418.1	1134.3	1023.0	953.3	951.6	972.9	1007.7	1028.1
5696.3	47.5°	5196.7	3629.8	1344.2	1108.8	962.7	891.3	894.7	913.4	944.8	959.3
6636.9	50°	6021.7	3688.5	1306.8	1108.8	930.4	836.1	853.1	868.4	892.2	900.7
7764.4	52.5°	6813.6	3494.7	1272.8	1115.6	934.7	789.4	825.9	836.9	857.3	860.7
8809.5	55°	7201.9	3004.5	1226.1	1117.3	961.0	749.4	803.8	824.2	831.8	831.0
9416.2	57.5°	7068.5	2429.2	1147.1	1110.5	978.8	723.9	776.6	815.7	820.8	813.1
9300.6	60°	6600.3	1788.6	1086.7	1060.4	972.0	716.3	735.0	797.0	804.7	794.5
8410.2	62.5°	5815.2	1241.4	1040.0	949.9	942.3	713.7	669.6	756.2	774.9	760.5
6760.1	65°	4578.1	876.9	895.6	832.7	877.7	700.1	601.6	706.9	732.4	710.3
4904.4	67.5°	3097.9	633.0	725.6	754.5	773.2	669.6	552.3	650.9	684.8	656.0
3147.2	70°	1673.0	444.4	479.2	635.6	656.8	616.9	508.1	593.9	633.0	601.6
2237.2	72.5°	988.2	319.5	335.6	510.7	547.2	542.9	458.8	527.7	575.2	537.8
1543.9	75°	544.6	215.8	239.6	370.5	444.4	418.9	394.3	446.9	495.4	458.8
967.8	77.5°	243.9	129.2	166.5	243.0	349.2	287.2	305.0	348.4	393.4	355.2
538.7	80°	94.3	72.2	110.5	132.6	254.1	158.9	196.3	256.6	288.9	258.3
117.3	82.5°	11.9	32.3	47.6	51.8	147.8	84.1	113.9	161.4	158.9	137.6
0.0	85°	0.0	5.9	6.8	3.4	63.7	30.6	37.4	52.7	49.3	37.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	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°
1707.9	0°	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9
1529.4	2.5°	1487.8	1457.2	1441.9	1429.2	1441.1	1447.9	1447.9	1476.8	1493.7	1500.5
1385.8	5°	1311.1	1254.1	1215.9	1193.0	1200.6	1209.1	1218.4	1255.0	1279.6	1295.8
1286.4	7.5°	1171.7	1085.0	1031.5	1003.5	1007.7	1013.7	1021.3	1057.0	1081.6	1102.9
1267.7	10°	1102.9	980.5	910.0	876.0	870.1	866.7	864.1	885.4	904.1	921.1
1344.2	12.5°	1106.3	935.5	849.7	808.0	790.2	769.8	753.7	757.1	769.0	790.2
1481.0	15°	1149.6	921.1	818.2	766.4	736.7	712.9	693.3	689.1	693.3	696.7
1637.3	17.5°	1208.3	919.4	791.1	726.5	695.9	676.3	658.5	652.6	653.4	657.7
1741.0	20°	1255.0	914.3	760.5	688.2	661.1	644.1	626.2	620.3	622.0	622.8
1751.2	22.5°	1279.6	906.6	726.5	650.0	627.1	610.1	593.9	593.1	593.1	598.2
1696.0	25°	1279.6	890.5	695.9	613.5	593.1	577.8	558.2	561.6	563.3	570.1
1610.2	27.5°	1249.0	859.9	671.3	582.0	560.8	545.5	527.7	531.9	534.5	542.1
1525.2	30°	1209.9	823.3	643.2	552.3	527.7	516.6	501.3	503.0	506.4	514.9
1446.2	32.5°	1168.3	780.0	620.3	522.6	497.9	489.4	472.4	475.0	478.4	487.7
1368.0	35°	1122.4	729.0	593.1	495.4	470.7	463.9	444.4	446.1	451.2	461.4
1283.9	37.5°	1074.0	687.4	565.9	469.0	443.5	436.7	416.3	418.0	424.0	435.9
1195.5	40°	1026.4	646.6	537.0	441.0	415.5	409.5	387.5	389.2	396.0	408.7
1106.3	42.5°	974.6	615.2	499.6	412.1	384.9	379.0	358.6	361.1	368.8	381.5
1023.9	45°	912.6	594.8	458.0	384.9	354.3	348.4	329.7	334.8	343.3	356.0
953.3	47.5°	848.8	586.3	423.1	356.0	322.9	317.8	302.5	311.0	320.3	330.5
893.0	50°	787.7	575.2	387.5	328.8	295.7	290.6	280.4	291.4	300.8	310.1
849.7	52.5°	718.0	551.4	355.2	305.0	272.7	271.0	266.0	276.1	284.6	293.1
812.3	55°	645.8	513.2	327.1	283.8	253.2	254.9	252.4	260.9	267.7	275.3
778.3	57.5°	582.9	464.8	305.0	260.9	236.2	241.3	237.9	242.2	246.4	255.8
737.5	60°	519.2	407.0	280.4	233.7	219.2	225.2	215.8	215.0	216.7	219.2
677.2	62.5°	433.3	346.7	249.8	209.9	200.5	203.1	185.2	171.6	171.6	174.2
593.1	65°	348.4	290.6	215.8	182.7	175.0	173.3	147.8	129.2	127.5	135.1
495.4	67.5°	286.3	241.3	181.8	152.1	147.0	148.7	130.0	111.3	109.6	118.1
403.6	70°	237.1	194.6	145.3	117.3	122.4	130.0	111.3	93.5	90.9	98.6
328.0	72.5°	188.6	152.1	111.3	86.7	101.1	110.5	90.9	73.9	72.2	79.0
253.2	75°	138.5	108.8	75.6	62.9	78.2	86.7	66.3	52.7	50.1	56.1
169.1	77.5°	85.8	61.2	47.6	37.4	53.5	57.8	34.8	30.6	29.7	34.0
102.8	80°	39.9	26.3	22.9	12.7	19.5	22.9	14.4	16.1	17.0	20.4
51.8	82.5°	11.0	4.2	0.8	0.0	0.0	6.8	3.4	6.8	8.5	12.7
4.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.2	7.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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°
1707.9	0°	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9
1548.1	2.5°	1583.8	1617.8	1672.2	1728.3	1783.5	1839.6	1893.9	1913.5
1369.7	5°	1436.8	1515.0	1622.9	1738.5	1857.4	1978.1	2088.5	2138.7
1185.3	7.5°	1272.8	1385.0	1547.3	1728.3	1917.7	2107.2	2281.4	2362.1
1002.6	10°	1097.8	1239.7	1424.9	1669.6	1941.5	2203.2	2442.8	2547.4
842.0	12.5°	931.3	1079.9	1284.7	1577.9	1922.8	2258.5	2546.5	2669.7
729.0	15°	791.9	923.6	1144.5	1469.1	1862.5	2261.9	2595.8	2730.9
666.2	17.5°	687.4	773.2	1001.8	1348.4	1783.5	2230.4	2612.8	2757.2
632.2	20°	635.6	659.4	816.5	1193.8	1709.6	2200.7	2629.8	2781.9
605.0	22.5°	605.0	610.9	667.9	994.1	1621.2	2191.3	2659.5	2815.9
580.3	25°	580.3	582.0	597.3	787.7	1486.1	2185.4	2705.4	2862.6
554.8	27.5°	555.7	555.7	564.2	634.7	1302.6	2159.9	2764.9	2918.7
529.4	30°	531.1	531.1	537.0	561.6	1087.6	2109.8	2836.2	2991.7
503.9	32.5°	505.6	505.6	510.7	528.5	868.4	2046.9	2901.7	3065.7
477.5	35°	480.1	478.4	485.2	503.9	690.8	1967.0	2967.1	3145.5
451.2	37.5°	452.9	452.0	458.8	480.1	596.5	1874.4	3016.4	3254.3
424.8	40°	424.0	424.0	431.6	454.6	569.3	1758.0	3094.5	3410.6
397.7	42.5°	397.7	396.0	404.4	432.5	548.9	1646.7	3234.7	3638.3
373.0	45°	372.2	368.8	376.4	411.2	513.2	1607.6	3496.4	3974.8
349.2	47.5°	348.4	339.9	346.7	385.8	480.9	1753.7	3924.7	4441.3
328.0	50°	328.8	312.7	318.6	360.3	456.3	2070.7	4480.4	5060.7
308.4	52.5°	308.4	287.2	290.6	328.8	434.2	2372.3	5082.8	5878.1
288.9	55°	287.2	263.4	265.1	297.4	402.8	2417.4	5670.8	6992.9
266.8	57.5°	263.4	241.3	241.3	268.5	379.8	2095.3	6122.8	8376.2
239.6	60°	237.1	222.6	218.4	245.6	400.2	1478.4	6175.5	9268.4
204.8	62.5°	208.2	200.5	194.6	223.5	415.5	876.0	5751.5	9052.5
161.4	65°	175.0	173.3	169.1	245.6	350.1	517.5	4937.5	8390.6
137.6	67.5°	147.0	144.4	144.4	257.5	266.0	325.4	3857.6	7479.8
117.3	70°	126.6	117.3	117.3	194.6	161.4	225.2	2693.5	6496.7
96.9	72.5°	106.2	96.0	89.2	155.5	120.7	164.8	1683.2	5563.7
73.9	75°	85.0	77.3	68.8	102.8	90.1	124.9	978.0	4609.5
46.7	77.5°	61.2	57.8	48.4	75.6	65.4	90.1	582.0	3556.8
28.9	80°	31.4	32.3	30.6	43.3	44.2	61.2	331.4	2434.3
18.7	82.5°	18.7	14.4	16.1	21.2	25.5	34.8	124.9	1430.9
13.6	85°	11.9	7.6	7.6	10.2	12.7	13.6	38.2	580.3
6.8	87.5°	5.9	2.5	3.4	5.1	4.2	3.4	1.7	146.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)