

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: P954919

Luminaire Tested: **GALN-SB8A-740-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954919  
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-SB8A-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

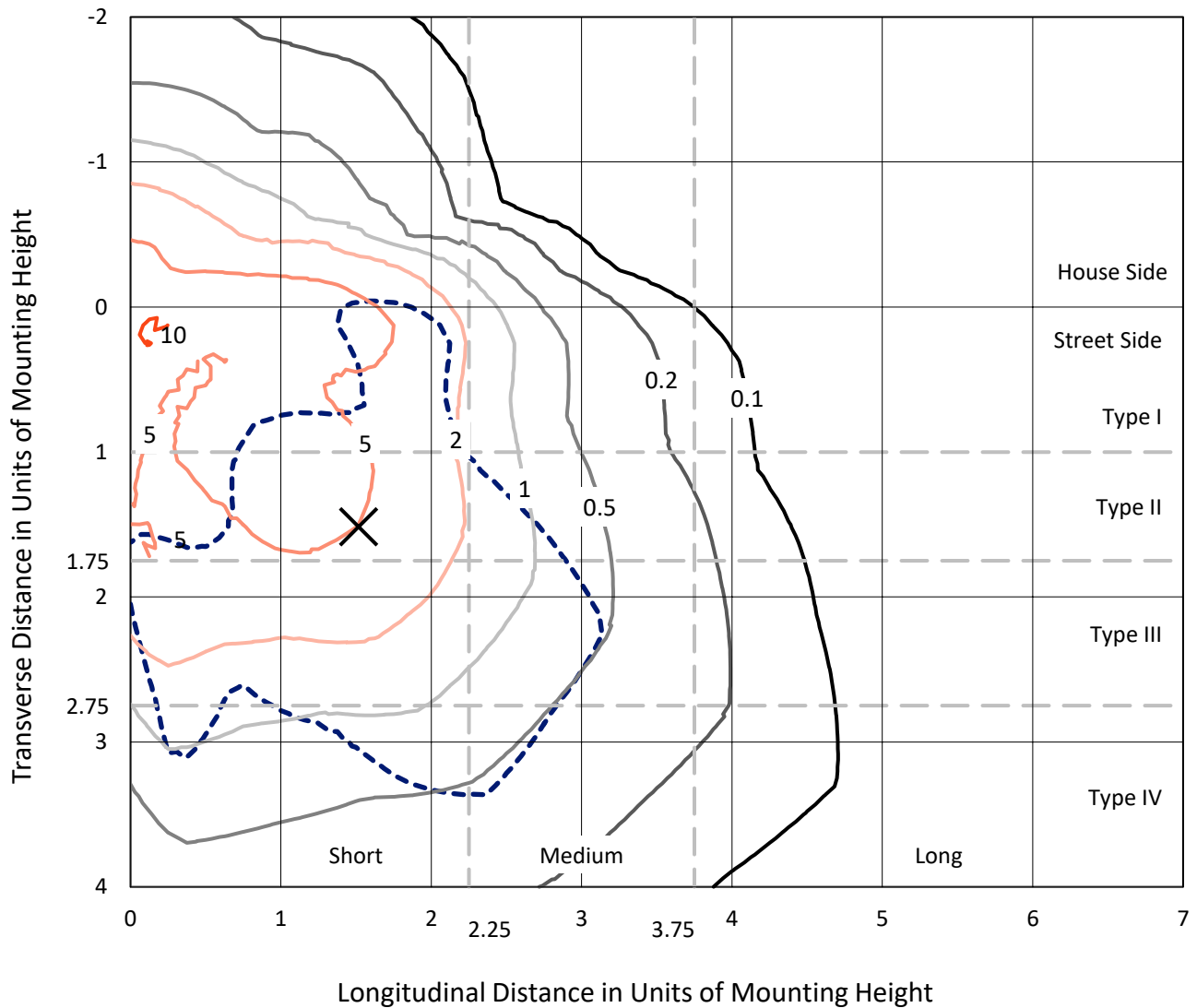
Lumens per Lamp: N/A  
Luminaire Lumens: 29288 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

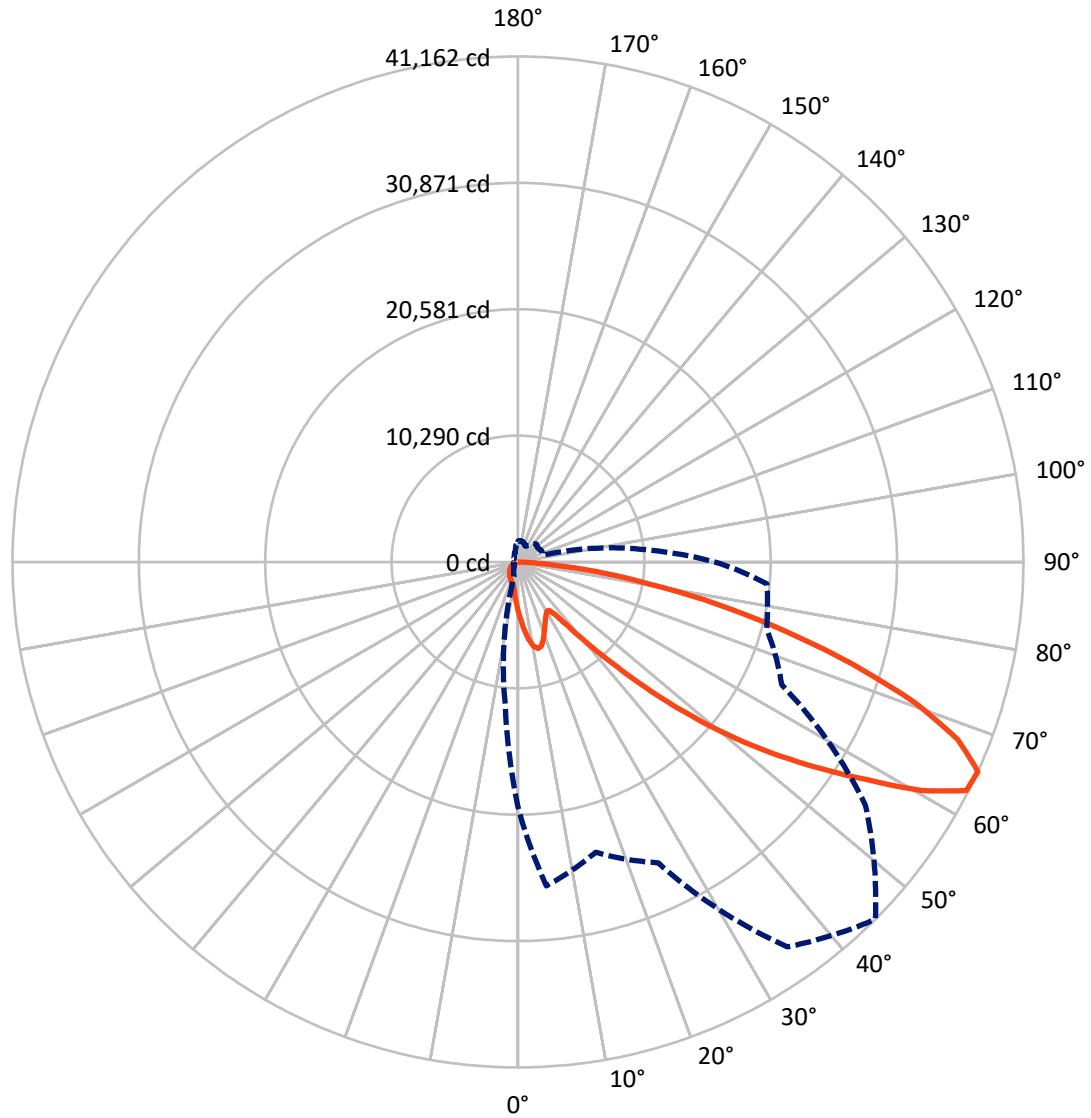
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	5821.6	0.0	5821.6
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	23466.5	0.0	23466.5
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	29288.0	0.0	29288.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.3	1.4
10°-20°	1196.9	4.1
20°-30°	1763.3	6.0
30°-40°	2265.3	7.7
40°-50°	3663.7	12.5
50°-60°	6424.7	21.9
60°-70°	8039.0	27.4
70°-80°	4697.6	16.0
80°-90°	838.1	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°	29288.0	100.0
0°-180°	29288.0	100.0

**Coefficient of Utilization**



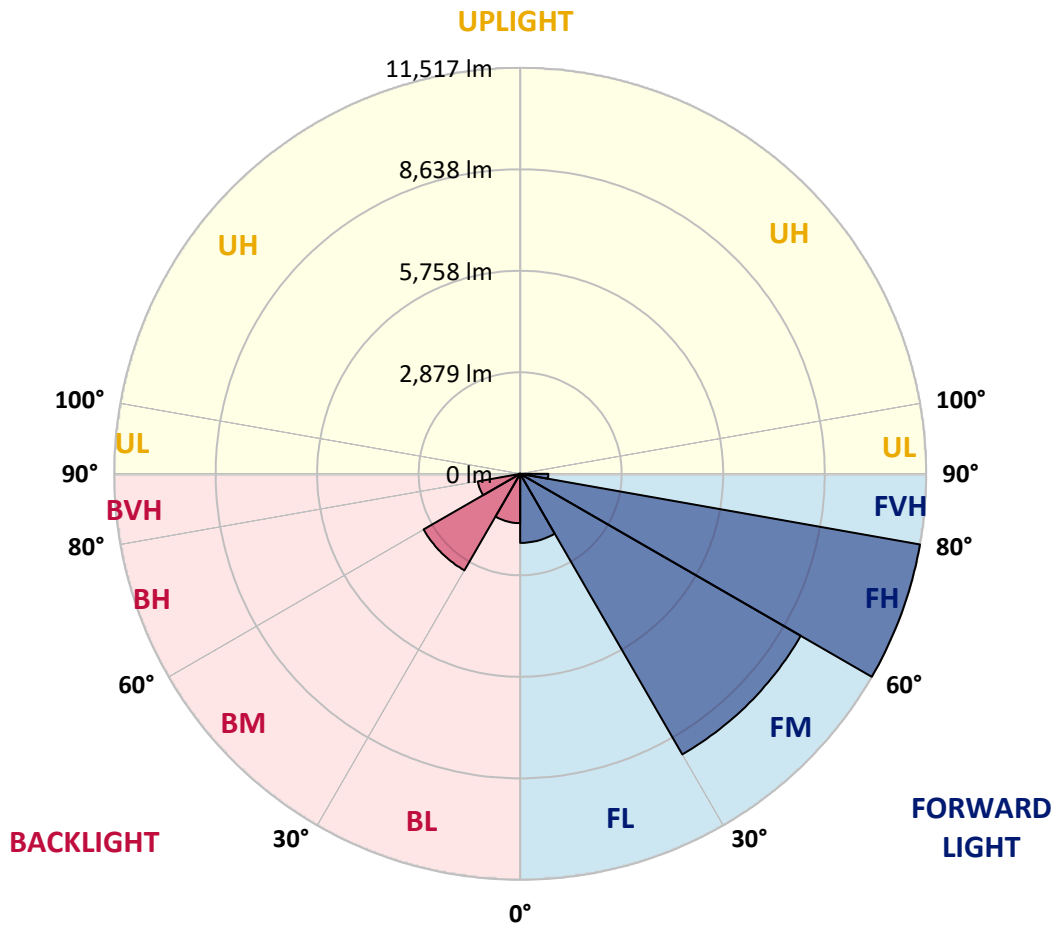
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.7	6.7			
FM (30°-60°)	9190.9	31.4			
FH (60°-80°)	11517.0	39.3			G4/12000
FVH (80°-90°)	798.9	2.7			G5
BL (0°-30°)	1399.7	4.8	B3/2500		
BM (30°-60°)	3162.8	10.8	B3/5000		
BH (60°-80°)	1219.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	39.3	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°	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5
2.5°	4543.7	4578.0	4654.7	4695.0	4757.6	4761.6	4761.6	4707.1	4705.1	4594.2
5°	5078.4	5159.1	5340.7	5528.3	5568.7	5578.8	5558.6	5449.6	5368.9	5153.0
7.5°	5609.0	5764.4	6040.8	6291.0	6371.7	6371.7	6323.3	6145.7	5980.3	5667.5
10°	6048.9	6244.6	6619.9	6900.3	6993.1	6973.0	6874.1	6650.1	6422.1	6042.8
12.5°	6339.4	6559.3	6970.9	7196.9	7291.7	7239.3	7126.3	6908.4	6668.3	6268.8
15°	6484.7	6714.7	7071.8	7190.9	7164.6	7110.2	7096.0	6991.1	6809.5	6436.3
17.5°	6547.2	6761.1	7009.3	6934.6	6712.7	6670.3	6811.5	6944.7	6900.3	6581.5
20°	6605.7	6785.3	6860.0	6529.1	6141.7	6103.4	6373.7	6753.0	6946.7	6716.7
22.5°	6686.4	6797.4	6644.1	6101.3	5683.7	5594.9	5893.5	6464.5	6960.8	6888.2
25°	6797.4	6827.7	6406.0	5695.8	5276.1	5187.3	5465.8	6143.7	6936.6	7073.8
27.5°	6930.6	6868.0	6178.0	5356.8	4951.3	4868.6	5147.0	5835.0	6868.0	7259.5
30°	7104.1	6920.5	5952.0	5094.5	4719.3	4658.7	4927.1	5568.7	6783.3	7495.5
32.5°	7279.6	6942.7	5742.2	4941.2	4666.8	4689.0	4908.9	5425.4	6690.5	7721.5
35°	7469.3	7013.3	5639.3	5092.5	5104.6	5298.3	5389.1	5558.6	6676.4	8028.2
37.5°	7727.6	7170.7	5762.4	5845.1	6264.8	6666.3	6591.6	6210.3	6839.8	8486.2
40°	8098.8	7447.1	6299.1	7126.3	7987.8	8639.5	8355.0	7394.6	7340.2	9145.9
42.5°	8639.5	7886.9	7251.4	8692.0	10152.8	11226.1	10463.5	8922.0	8215.8	10088.2
45°	9438.5	8599.2	8403.5	10344.4	12822.1	14512.9	12927.0	10550.2	9442.5	11514.7
47.5°	10546.2	9646.3	9482.9	12085.6	16066.4	18253.6	15658.9	12059.4	10838.7	13459.7
50°	12017.0	11056.7	10505.8	13990.3	19623.5	22066.9	18388.7	13516.2	12438.7	15836.4
52.5°	13958.0	13023.8	11698.3	15804.2	23281.5	25799.5	21130.7	14795.3	14424.1	18594.5
55°	16605.2	15983.7	13328.5	17535.3	26937.5	29554.4	23765.7	16001.9	17047.0	21871.2
57.5°	19889.9	20333.7	15679.1	19542.8	30224.2	33424.2	26412.9	17688.6	20452.8	25535.2
60°	22008.4	26118.3	20180.4	22510.8	33958.9	37800.4	30040.6	20896.7	24032.1	26848.7
62.5°	21495.9	27958.4	25571.5	26299.9	37392.9	40982.2	33595.7	24118.8	24706.0	24913.8
65°	19924.2	26473.4	24471.9	27036.3	38262.5	41161.8	34546.0	23703.2	20957.2	20339.8
67.5°	17761.3	24712.0	21859.1	25083.3	36690.7	38651.9	32776.5	20967.3	16195.6	15263.4
70°	15426.9	22763.0	20144.1	22892.1	33694.5	34277.6	29768.2	18441.2	11912.1	10308.1
72.5°	13211.5	20733.2	18969.8	20646.5	29697.6	28491.1	25852.0	16207.7	8673.8	7435.0
75°	10945.7	17739.1	17297.2	17979.2	24441.7	22442.2	21479.8	13419.3	6807.5	5379.0
77.5°	8445.8	13861.2	14878.1	14397.9	17204.4	16669.7	16649.5	10084.2	4973.5	3589.4
80°	5780.5	9660.4	11623.6	10156.8	11165.6	10893.2	12539.6	6765.1	3607.5	2160.9
82.5°	3397.7	5881.4	8090.7	4917.0	6174.0	6337.4	7467.3	3290.8	2122.6	498.4
85°	1378.0	2322.3	3163.7	1924.8	2978.0	2512.0	2834.8	924.1	591.2	12.1
87.5°	347.0	742.5	520.6	215.9	345.0	316.8	250.2	113.0	24.2	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°
4055.5	0°	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5
4582.1	2.5°	4503.4	4457.0	4342.0	4227.0	4134.1	4009.0	3926.3	3827.5	3732.6	3647.9
5106.6	5°	4979.5	4826.2	4616.4	4424.7	4229.0	4039.3	3851.7	3653.9	3472.4	3361.4
5550.5	7.5°	5366.9	5096.6	4818.1	4574.0	4337.9	4116.0	3867.8	3627.7	3343.2	3191.9
5889.5	10°	5655.4	5300.3	4935.1	4654.7	4416.6	4200.7	3990.9	3748.8	3405.8	3216.1
6095.3	12.5°	5845.1	5423.4	4995.7	4674.9	4408.5	4241.1	4148.3	4053.4	3712.5	3490.5
6246.6	15°	5976.2	5510.2	5038.0	4628.5	4301.6	4178.5	4271.3	4380.3	4162.4	3906.1
6404.0	17.5°	6119.5	5623.2	5056.2	4503.4	4093.8	4041.3	4281.4	4533.6	4523.5	4269.3
6553.3	20°	6270.8	5722.0	5044.1	4301.6	3841.6	3888.0	4194.7	4487.2	4610.3	4473.1
6724.8	22.5°	6426.2	5816.8	4997.7	4039.3	3605.5	3750.8	4057.5	4313.7	4459.0	4416.6
6934.6	25°	6621.9	5950.0	4929.1	3756.8	3409.8	3611.6	3898.1	4105.9	4206.8	4204.8
7160.6	27.5°	6855.9	6127.6	4892.8	3528.8	3270.6	3454.2	3708.4	3894.0	3964.7	3964.7
7441.0	30°	7128.3	6337.4	4852.4	3379.5	3189.9	3290.8	3488.5	3670.1	3740.7	3740.7
7747.7	32.5°	7431.0	6539.2	4755.6	3288.7	3129.4	3131.4	3256.5	3421.9	3506.7	3518.8
8131.1	35°	7794.1	6755.0	4543.7	3216.1	3058.7	2976.0	3036.5	3173.7	3274.6	3300.9
8677.9	37.5°	8270.3	7019.4	4241.1	3109.2	2949.8	2812.6	2826.7	2931.6	3042.6	3082.9
9432.5	40°	8909.9	7330.1	3926.3	2955.8	2796.4	2633.0	2627.0	2703.6	2812.6	2857.0
10453.4	42.5°	9755.3	7703.3	3625.7	2808.6	2610.8	2443.4	2433.3	2493.8	2588.6	2635.0
11801.2	45°	10836.7	8161.3	3367.4	2693.5	2429.2	2263.8	2259.8	2310.2	2392.9	2441.3
13526.2	47.5°	12339.9	8619.3	3191.9	2633.0	2286.0	2116.5	2124.6	2169.0	2243.6	2277.9
15759.8	50°	14299.0	8758.6	3103.1	2633.0	2209.3	1985.4	2025.7	2062.0	2118.5	2138.7
18437.2	52.5°	16179.4	8298.5	3022.4	2649.2	2219.4	1874.4	1961.1	1987.4	2035.8	2043.9
20918.9	55°	17101.5	7134.4	2911.5	2653.2	2281.9	1779.6	1908.7	1957.1	1975.3	1973.2
22359.5	57.5°	16784.7	5768.4	2723.8	2637.1	2324.3	1719.0	1844.1	1936.9	1949.0	1930.9
22085.1	60°	15673.0	4247.1	2580.6	2518.0	2308.2	1700.9	1745.3	1892.5	1910.7	1886.5
19970.6	62.5°	13808.7	2947.8	2469.6	2255.7	2237.6	1694.8	1589.9	1795.7	1840.1	1805.8
16052.3	65°	10871.0	2082.2	2126.6	1977.3	2084.2	1662.5	1428.5	1678.7	1739.2	1686.7
11645.8	67.5°	7356.3	1503.1	1723.1	1791.7	1836.0	1589.9	1311.5	1545.5	1626.2	1557.6
7473.3	70°	3972.7	1055.2	1137.9	1509.2	1559.6	1464.8	1206.5	1410.3	1503.1	1428.5
5312.4	72.5°	2346.5	758.6	797.0	1212.6	1299.4	1289.3	1089.5	1253.0	1365.9	1277.2
3666.0	75°	1293.3	512.5	569.0	879.7	1055.2	994.7	936.2	1061.3	1176.3	1089.5
2298.1	77.5°	579.1	306.7	395.5	577.0	829.2	682.0	724.3	827.2	934.2	843.4
1279.2	80°	224.0	171.5	262.3	314.8	603.3	377.3	466.1	609.3	686.0	613.4
278.4	82.5°	28.2	76.7	113.0	123.1	351.1	199.7	270.4	383.4	377.3	326.9
0.0	85°	0.0	14.1	16.1	8.1	151.3	72.6	88.8	125.1	117.0	88.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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°
4055.5	0°	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5
3631.7	2.5°	3532.9	3460.2	3423.9	3393.7	3421.9	3438.1	3438.1	3506.7	3547.0	3563.1
3290.8	5°	3113.2	2978.0	2887.2	2832.8	2850.9	2871.1	2893.3	2980.1	3038.6	3076.9
3054.7	7.5°	2782.3	2576.5	2449.4	2382.8	2392.9	2407.0	2425.2	2509.9	2568.5	2618.9
3010.3	10°	2618.9	2328.4	2160.9	2080.2	2066.1	2058.0	2051.9	2102.4	2146.8	2187.1
3191.9	12.5°	2627.0	2221.4	2017.6	1918.8	1876.4	1828.0	1789.6	1797.7	1826.0	1876.4
3516.7	15°	2729.9	2187.1	1943.0	1819.9	1749.3	1692.8	1646.4	1636.3	1646.4	1654.5
3888.0	17.5°	2869.1	2183.1	1878.4	1725.1	1652.4	1606.0	1563.7	1549.5	1551.6	1561.7
4134.1	20°	2980.1	2171.0	1805.8	1634.3	1569.7	1529.4	1487.0	1472.9	1476.9	1478.9
4158.4	22.5°	3038.6	2152.8	1725.1	1543.5	1489.0	1448.7	1410.3	1408.3	1408.3	1420.4
4027.2	25°	3038.6	2114.5	1652.4	1456.7	1408.3	1372.0	1325.6	1333.7	1337.7	1353.8
3823.4	27.5°	2965.9	2041.8	1593.9	1382.1	1331.6	1295.3	1253.0	1263.0	1269.1	1287.3
3621.7	30°	2873.1	1955.1	1527.4	1311.5	1253.0	1226.7	1190.4	1194.4	1202.5	1222.7
3434.0	32.5°	2774.3	1852.2	1472.9	1240.8	1182.3	1162.2	1121.8	1127.9	1135.9	1158.1
3248.4	35°	2665.3	1731.1	1408.3	1176.3	1117.8	1101.6	1055.2	1059.3	1071.4	1095.6
3048.6	37.5°	2550.3	1632.3	1343.7	1113.7	1053.2	1037.1	988.6	992.7	1006.8	1035.0
2838.8	40°	2437.3	1535.4	1275.1	1047.2	986.6	972.5	920.0	924.1	940.2	970.5
2627.0	42.5°	2314.2	1460.8	1186.4	978.6	914.0	899.9	851.4	857.5	875.7	905.9
2431.3	45°	2166.9	1412.3	1087.5	914.0	841.4	827.2	782.8	794.9	815.1	845.4
2263.8	47.5°	2015.6	1392.2	1004.8	845.4	766.7	754.6	718.3	738.5	760.6	784.9
2120.5	50°	1870.3	1365.9	920.0	780.8	702.1	690.0	665.8	692.0	714.2	736.4
2017.6	52.5°	1704.9	1309.4	843.4	724.3	647.7	643.6	631.5	655.7	675.9	696.1
1928.9	55°	1533.4	1218.7	776.8	673.9	601.3	605.3	599.2	619.4	635.6	653.7
1848.2	57.5°	1384.1	1103.6	724.3	619.4	560.9	573.0	564.9	575.0	585.1	607.3
1751.3	60°	1232.8	966.4	665.8	554.9	520.6	534.7	512.5	510.5	514.5	520.6
1608.1	62.5°	1029.0	823.2	593.2	498.4	476.2	482.2	439.8	407.6	407.6	413.6
1408.3	65°	827.2	690.0	512.5	433.8	415.6	411.6	351.1	306.7	302.6	320.8
1176.3	67.5°	679.9	573.0	431.8	361.2	349.1	353.1	308.7	264.3	260.3	280.5
958.4	70°	562.9	462.0	345.0	278.4	290.5	308.7	264.3	221.9	215.9	234.0
778.8	72.5°	447.9	361.2	264.3	205.8	240.1	262.3	215.9	175.5	171.5	187.6
601.3	75°	328.9	258.3	179.6	149.3	185.6	205.8	157.4	125.1	119.0	133.2
401.5	77.5°	203.8	145.3	113.0	88.8	127.1	137.2	82.7	72.6	70.6	80.7
244.1	80°	94.8	62.5	54.5	30.3	46.4	54.5	34.3	38.3	40.4	48.4
123.1	82.5°	26.2	10.1	2.0	0.0	0.0	16.1	8.1	16.1	20.2	30.3
10.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	10.1	18.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1
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°
4055.5	0°	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5	4055.5
3676.1	2.5°	3760.9	3841.6	3970.7	4103.9	4235.0	4368.2	4497.3	4543.7
3252.4	5°	3411.8	3597.4	3853.7	4128.1	4410.6	4697.1	4959.4	5078.4
2814.6	7.5°	3022.4	3288.7	3674.1	4103.9	4553.8	5003.7	5417.4	5609.0
2380.8	10°	2606.8	2943.7	3383.6	3964.7	4610.3	5231.7	5800.7	6048.9
1999.5	12.5°	2211.3	2564.4	3050.7	3746.8	4565.9	5362.9	6046.9	6339.4
1731.1	15°	1880.4	2193.2	2717.8	3488.5	4422.7	5371.0	6163.9	6484.7
1581.8	17.5°	1632.3	1836.0	2378.8	3202.0	4235.0	5296.3	6204.2	6547.2
1501.1	20°	1509.2	1565.7	1938.9	2834.8	4059.5	5225.7	6244.6	6605.7
1436.6	22.5°	1436.6	1450.7	1585.9	2360.6	3849.7	5203.5	6315.2	6686.4
1378.0	25°	1378.0	1382.1	1418.4	1870.3	3528.8	5189.4	6424.2	6797.4
1317.5	27.5°	1319.5	1319.5	1339.7	1507.2	3093.0	5128.8	6565.4	6930.6
1257.0	30°	1261.0	1261.0	1275.1	1333.7	2582.6	5009.8	6734.9	7104.1
1196.5	32.5°	1200.5	1200.5	1212.6	1255.0	2062.0	4860.5	6890.2	7279.6
1133.9	35°	1140.0	1135.9	1152.1	1196.5	1640.3	4670.8	7045.6	7469.3
1071.4	37.5°	1075.4	1073.4	1089.5	1140.0	1416.4	4450.9	7162.6	7727.6
1008.8	40°	1006.8	1006.8	1025.0	1079.4	1351.8	4174.5	7348.2	8098.8
944.3	42.5°	944.3	940.2	960.4	1027.0	1303.4	3910.2	7681.1	8639.5
885.7	45°	883.7	875.7	893.8	976.5	1218.7	3817.4	8302.6	9438.5
829.2	47.5°	827.2	807.1	823.2	916.0	1142.0	4164.4	9319.5	10546.2
778.8	50°	780.8	742.5	756.6	855.5	1083.5	4917.0	10639.0	12017.0
732.4	52.5°	732.4	682.0	690.0	780.8	1031.0	5633.2	12069.5	13958.0
686.0	55°	682.0	625.5	629.5	706.2	956.4	5740.2	13465.7	16605.2
633.5	57.5°	625.5	573.0	573.0	637.6	901.9	4975.5	14539.1	19889.9
569.0	60°	562.9	528.6	518.5	583.1	950.3	3510.7	14664.2	22008.4
486.3	62.5°	494.3	476.2	462.0	530.6	986.6	2080.2	13657.4	21495.9
383.4	65°	415.6	411.6	401.5	583.1	831.3	1228.7	11724.5	19924.2
326.9	67.5°	349.1	343.0	343.0	611.3	631.5	772.8	9160.1	17761.3
278.4	70°	300.6	278.4	278.4	462.0	383.4	534.7	6395.9	15426.9
230.0	72.5°	252.2	228.0	211.9	369.2	286.5	391.4	3996.9	13211.5
175.5	75°	201.8	183.6	163.4	244.1	213.9	296.6	2322.3	10945.7
111.0	77.5°	145.3	137.2	115.0	179.6	155.4	213.9	1382.1	8445.8
68.6	80°	74.7	76.7	72.6	102.9	104.9	145.3	786.9	5780.5
44.4	82.5°	44.4	34.3	38.3	50.4	60.5	82.7	296.6	3397.7
32.3	85°	28.2	18.2	18.2	24.2	30.3	32.3	90.8	1378.0
16.1	87.5°	14.1	6.1	8.1	12.1	10.1	8.1	4.0	347.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)