

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: P953260

Luminaire Tested: **GALN-SB6D-840-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953260
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-SB6D-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 900mA 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: 45047 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

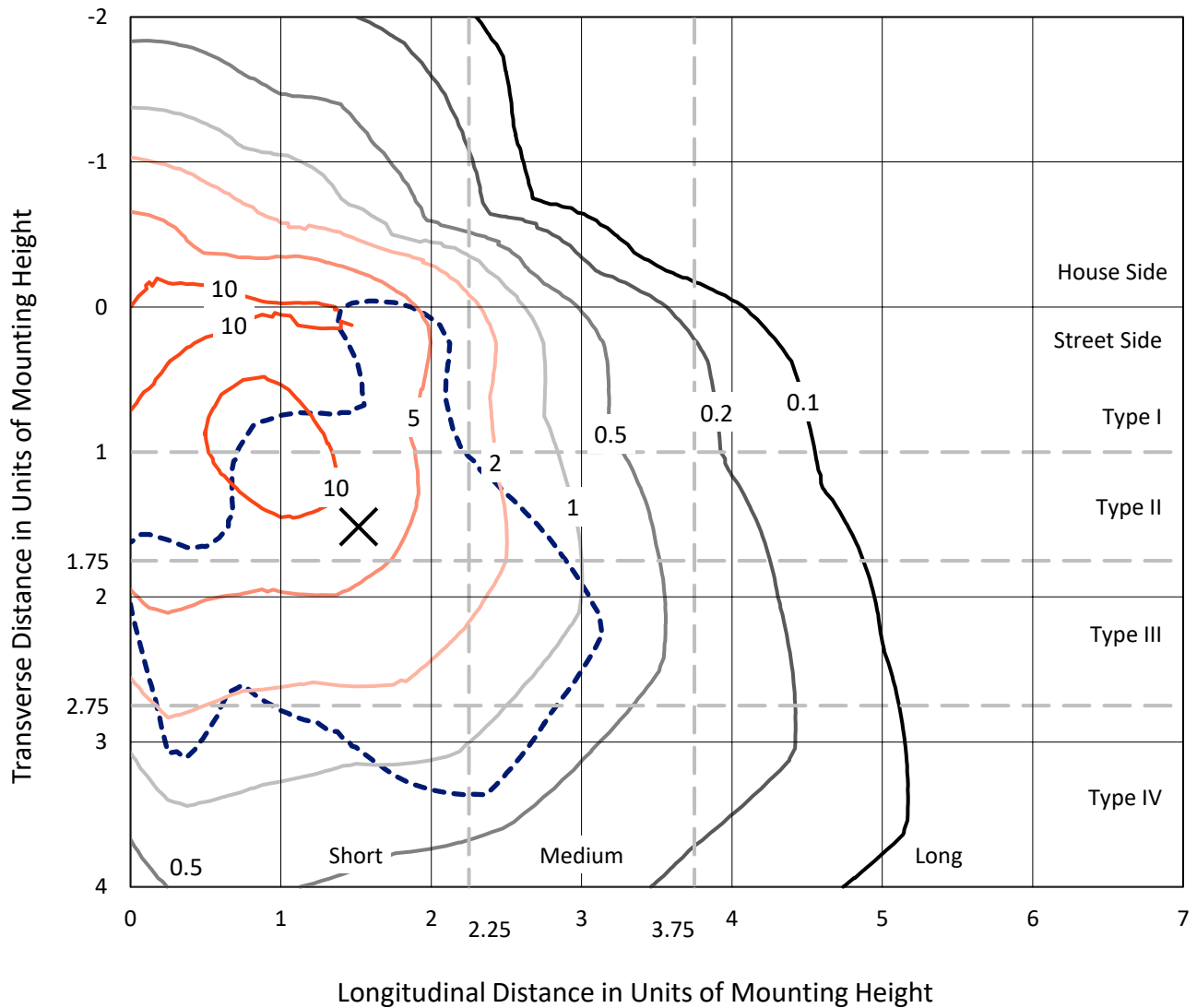
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

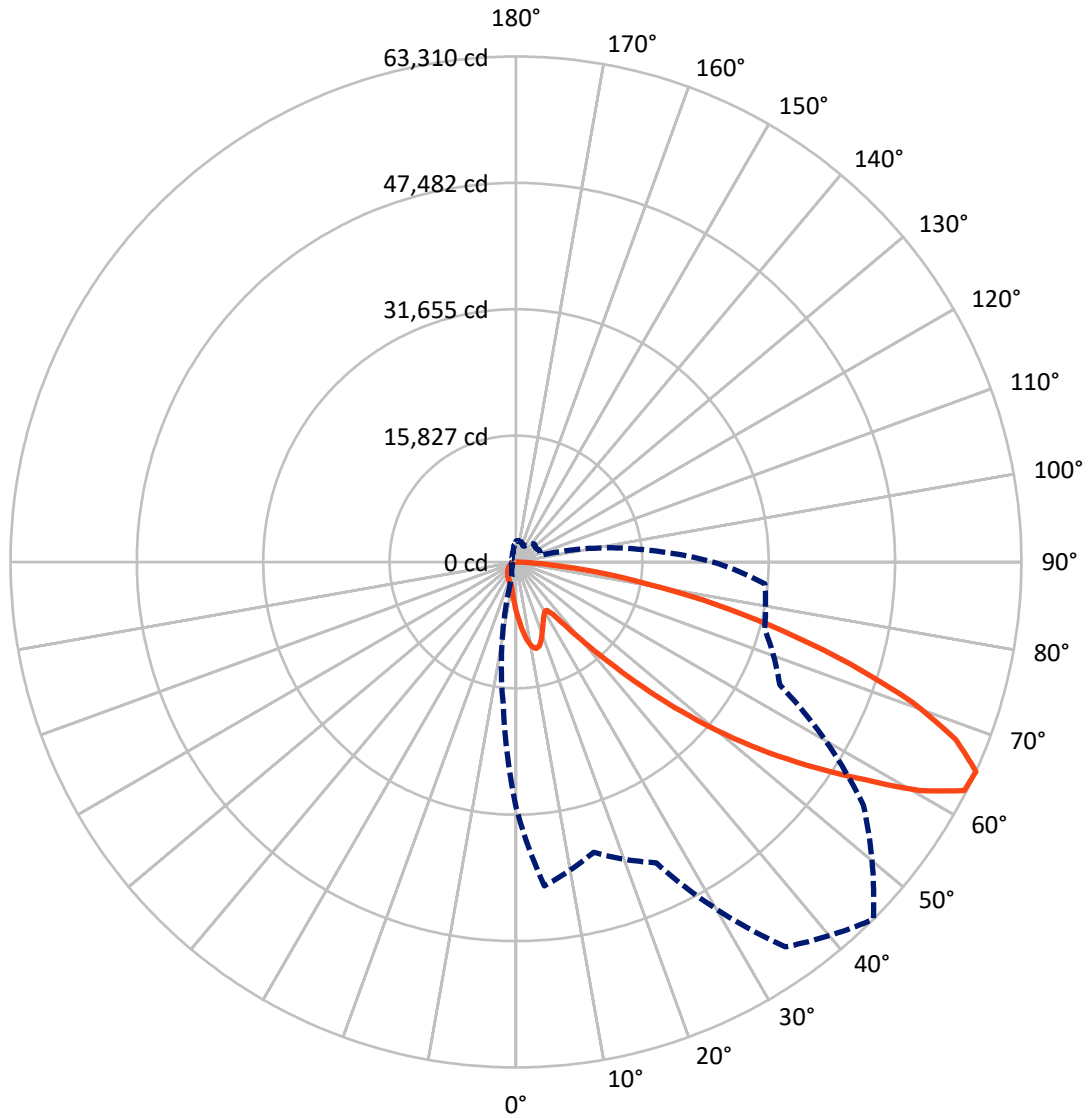
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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
House Side	Lumens	8954.0	0.0	8954.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	36093.0	0.0	36093.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	45047.0	0.0	45047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.1	1.4
10°-20°	1840.9	4.1
20°-30°	2712.0	6.0
30°-40°	3484.2	7.7
40°-50°	5635.1	12.5
50°-60°	9881.6	21.9
60°-70°	12364.6	27.4
70°-80°	7225.3	16.0
80°-90°	1289.1	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°	45047.0	100.0
0°-180°	45047.0	100.0

Coefficient of Utilization



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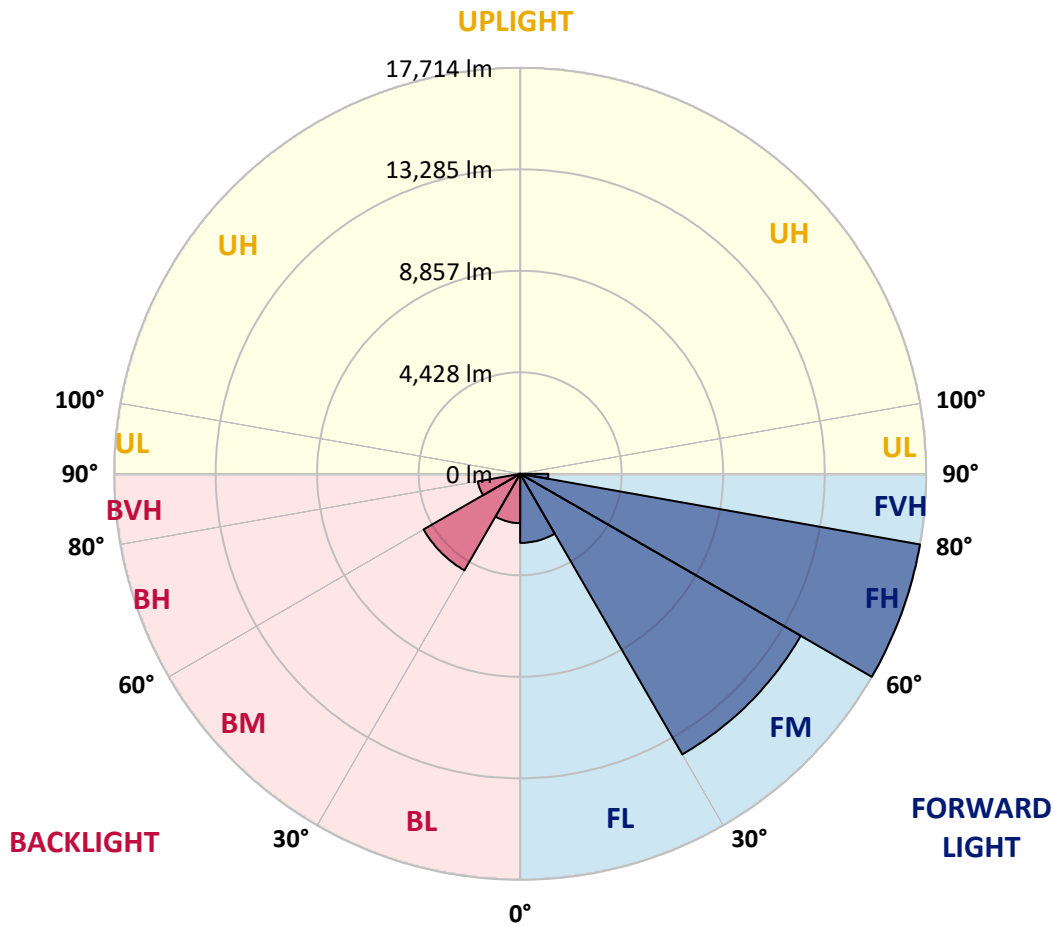
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3014.2	6.7			
FM (30°-60°)	14136.3	31.4			
FH (60°-80°)	17713.9	39.3			G5
FVH (80°-90°)	1228.7	2.7			G5
BL (0°-30°)	2152.9	4.8	B3/2500		
BM (30°-60°)	4864.6	10.8	B3/5000		
BH (60°-80°)	1876.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	60.4	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°	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6
2.5°	6988.6	7041.3	7159.2	7221.3	7317.5	7323.7	7323.7	7239.9	7236.8	7066.1
5°	7810.9	7935.1	8214.3	8503.0	8565.0	8580.5	8549.5	8381.9	8257.8	7925.7
7.5°	8627.1	8866.0	9291.2	9676.0	9800.1	9800.1	9725.6	9452.6	9198.1	8717.1
10°	9303.6	9604.6	10181.8	10613.2	10755.9	10724.9	10572.8	10228.4	9877.7	9294.3
12.5°	9750.5	10088.7	10721.8	11069.4	11215.2	11134.5	10960.7	10625.6	10256.3	9641.9
15°	9973.9	10327.7	10877.0	11060.0	11019.7	10935.9	10914.2	10752.8	10473.5	9899.4
17.5°	10070.1	10399.1	10780.8	10665.9	10324.6	10259.4	10476.6	10681.4	10613.2	10122.9
20°	10160.1	10436.3	10551.1	10042.2	9446.3	9387.4	9803.2	10386.6	10684.6	10330.8
22.5°	10284.2	10454.9	10219.1	9384.3	8741.9	8605.4	9064.6	9942.9	10706.3	10594.6
25°	10454.9	10501.5	9852.9	8760.5	8115.0	7978.5	8406.8	9449.5	10669.0	10880.1
27.5°	10659.7	10563.5	9502.2	8239.2	7615.4	7488.2	7916.4	8974.7	10563.5	11165.6
30°	10926.6	10644.2	9154.6	7835.8	7258.5	7165.4	7578.2	8565.0	10433.2	11528.6
32.5°	11196.6	10678.3	8831.9	7599.9	7177.9	7212.0	7550.3	8344.7	10290.4	11876.2
35°	11488.3	10787.0	8673.6	7832.6	7851.3	8149.2	8288.8	8549.5	10268.7	12347.9
37.5°	11885.5	11029.0	8862.9	8990.2	9635.6	10253.2	10138.4	9551.9	10520.1	13052.3
40°	12456.5	11454.2	9688.4	10960.7	12285.8	13288.2	12850.6	11373.5	11289.7	14067.1
42.5°	13288.2	12130.7	11153.1	13368.9	15615.6	17266.6	16093.5	13722.6	12636.5	15516.3
45°	14517.1	13226.1	12925.1	15910.5	19721.3	22321.8	19882.6	16227.0	14523.3	17710.3
47.5°	16220.8	14836.7	14585.4	18588.6	24711.3	28075.3	24084.5	18548.2	16670.8	20701.9
50°	18483.1	17005.9	16158.7	21518.1	30182.4	33940.4	28283.2	20788.8	19131.6	24357.5
52.5°	21468.4	20031.6	17992.7	24307.9	35808.6	39681.5	32500.5	22756.3	22185.3	28599.7
55°	25539.9	24584.1	20500.2	26970.5	41431.7	45456.7	36553.4	24612.0	26219.5	33639.4
57.5°	30592.0	31274.7	24115.5	30058.3	46487.0	51408.7	40624.9	27206.3	31457.8	39275.0
60°	33850.4	40171.8	31038.9	34623.2	52231.1	58139.7	46204.6	32140.5	36963.0	41295.2
62.5°	33062.2	43002.0	39330.8	40451.1	57512.9	63033.6	51672.5	37096.5	37999.5	38319.1
65°	30644.8	40718.0	37639.5	41583.8	58850.4	63309.8	53134.1	36457.2	32233.6	31284.0
67.5°	27318.1	38008.8	33620.8	38579.8	56432.9	59449.3	50412.6	32249.2	24909.9	23476.2
70°	23727.6	35011.1	30983.0	35209.7	51824.6	52721.4	45785.6	28363.9	18321.7	15854.6
72.5°	20320.2	31889.2	29176.9	31755.7	45677.0	43821.2	39762.2	24928.5	13340.9	11435.5
75°	16835.2	27283.9	26604.3	27653.2	37593.0	34517.6	33037.4	20639.8	10470.4	8273.3
77.5°	12990.3	21319.4	22883.5	22144.9	26461.6	25639.2	25608.2	15510.1	7649.6	5520.7
80°	8890.9	14858.4	17877.9	15621.8	17173.5	16754.5	19286.8	10405.3	5548.6	3323.6
82.5°	5225.9	9046.0	12444.1	7562.7	9496.0	9747.4	11485.2	5061.4	3264.6	766.5
85°	2119.5	3571.9	4865.9	2960.5	4580.4	3863.6	4360.1	1421.3	909.3	18.6
87.5°	533.8	1142.0	800.6	332.0	530.7	487.2	384.8	173.8	37.2	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°
6237.6	0°	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6
7047.5	2.5°	6926.5	6855.1	6678.2	6501.3	6358.6	6166.2	6039.0	5886.9	5741.0	5610.7
7854.4	5°	7658.9	7423.0	7100.3	6805.5	6504.4	6212.7	5924.1	5620.0	5340.7	5170.0
8537.1	7.5°	8254.7	7838.9	7410.6	7035.1	6672.0	6330.7	5949.0	5579.7	5142.1	4909.4
9058.4	10°	8698.5	8152.3	7590.6	7159.2	6793.1	6461.0	6138.3	5765.9	5238.3	4946.6
9375.0	12.5°	8990.2	8341.6	7683.7	7190.3	6780.6	6523.1	6380.3	6234.5	5710.0	5368.7
9607.7	15°	9191.9	8475.0	7748.9	7118.9	6616.2	6426.9	6569.6	6737.2	6402.0	6007.9
9849.8	17.5°	9412.2	8648.8	7776.8	6926.5	6296.5	6215.8	6585.1	6973.0	6957.5	6566.5
10079.4	20°	9645.0	8800.9	7758.2	6616.2	5908.6	5980.0	6451.7	6901.7	7091.0	6879.9
10343.2	22.5°	9883.9	8946.7	7686.8	6212.7	5545.5	5769.0	6240.7	6634.8	6858.2	6793.1
10665.9	25°	10184.9	9151.5	7581.3	5778.3	5244.5	5554.8	5995.5	6315.1	6470.3	6467.2
11013.5	27.5°	10544.9	9424.6	7525.4	5427.6	5030.4	5312.8	5703.8	5989.3	6097.9	6097.9
11444.9	30°	10963.8	9747.4	7463.4	5198.0	4906.3	5061.4	5365.5	5644.8	5753.5	5753.5
11916.5	32.5°	11429.3	10057.7	7314.4	5058.3	4813.2	4816.3	5008.7	5263.1	5393.5	5412.1
12506.2	35°	11987.9	10389.7	6988.6	4946.6	4704.6	4577.3	4670.4	4881.4	5036.6	5076.9
13347.2	37.5°	12720.3	10796.3	6523.1	4782.1	4537.0	4326.0	4347.7	4509.0	4679.7	4741.8
14507.8	40°	13704.0	11274.2	6039.0	4546.3	4301.1	4049.8	4040.5	4158.4	4326.0	4394.2
16078.0	42.5°	15004.3	11848.3	5576.6	4319.7	4015.6	3758.1	3742.5	3835.6	3981.5	4052.9
18151.0	45°	16667.7	12552.7	5179.4	4142.9	3736.3	3481.9	3475.7	3553.2	3680.5	3755.0
20804.3	47.5°	18979.6	13257.2	4909.4	4049.8	3516.0	3255.3	3267.7	3336.0	3450.8	3503.6
24239.6	50°	21992.9	13471.3	4772.8	4049.8	3398.1	3053.6	3115.7	3171.5	3258.4	3289.5
28357.7	52.5°	24885.1	12763.7	4648.7	4074.6	3413.6	2882.9	3016.4	3056.7	3131.2	3143.6
32174.7	55°	26303.3	10973.2	4478.0	4080.8	3509.8	2737.1	2935.7	3010.2	3038.1	3035.0
34390.4	57.5°	25816.1	8872.2	4189.4	4056.0	3575.0	2644.0	2836.4	2979.1	2997.8	2969.8
33968.4	60°	24106.2	6532.4	3969.1	3872.9	3550.1	2616.1	2684.3	2910.9	2938.8	2901.6
30716.1	62.5°	21238.8	4533.9	3798.4	3469.5	3441.5	2606.7	2445.4	2761.9	2830.2	2777.4
24689.6	65°	16720.4	3202.6	3270.8	3041.2	3205.7	2557.1	2197.1	2581.9	2675.0	2594.3
17912.1	67.5°	11314.5	2311.9	2650.2	2755.7	2824.0	2445.4	2017.1	2377.1	2501.2	2395.7
11494.5	70°	6110.3	1623.0	1750.2	2321.2	2398.8	2253.0	1855.8	2169.2	2311.9	2197.1
8170.9	72.5°	3609.1	1166.8	1225.8	1865.1	1998.5	1983.0	1675.8	1927.1	2100.9	1964.4
5638.6	75°	1989.2	788.2	875.1	1353.0	1623.0	1529.9	1439.9	1632.3	1809.2	1675.8
3534.6	77.5°	890.6	471.7	608.2	887.5	1275.4	1048.9	1114.1	1272.3	1436.8	1297.2
1967.5	80°	344.5	263.8	403.4	484.1	927.9	580.3	716.9	937.2	1055.1	943.4
428.3	82.5°	43.4	117.9	173.8	189.3	540.0	307.2	415.8	589.6	580.3	502.7
0.0	85°	0.0	21.7	24.8	12.4	232.7	111.7	136.5	192.4	180.0	136.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	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°
6237.6	0°	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6
5585.9	2.5°	5433.8	5322.1	5266.2	5219.7	5263.1	5288.0	5288.0	5393.5	5455.5	5480.4
5061.4	5°	4788.3	4580.4	4440.8	4357.0	4384.9	4415.9	4450.1	4583.5	4673.5	4732.5
4698.3	7.5°	4279.4	3962.9	3767.4	3665.0	3680.5	3702.2	3730.1	3860.5	3950.5	4028.0
4630.1	10°	4028.0	3581.2	3323.6	3199.5	3177.7	3165.3	3156.0	3233.6	3301.9	3363.9
4909.4	12.5°	4040.5	3416.7	3103.3	2951.2	2886.0	2811.6	2752.6	2765.0	2808.5	2886.0
5409.0	15°	4198.7	3363.9	2988.4	2799.1	2690.5	2603.6	2532.3	2516.8	2532.3	2544.7
5980.0	17.5°	4412.8	3357.7	2889.1	2653.3	2541.6	2470.2	2405.0	2383.3	2386.4	2401.9
6358.6	20°	4583.5	3339.1	2777.4	2513.6	2414.3	2352.3	2287.1	2265.4	2271.6	2274.7
6395.8	22.5°	4673.5	3311.2	2653.3	2374.0	2290.2	2228.1	2169.2	2166.1	2166.1	2184.7
6194.1	25°	4673.5	3252.2	2541.6	2240.6	2166.1	2110.2	2038.8	2051.3	2057.5	2082.3
5880.7	27.5°	4561.8	3140.5	2451.6	2125.7	2048.2	1992.3	1927.1	1942.6	1952.0	1979.9
5570.4	30°	4419.1	3007.1	2349.2	2017.1	1927.1	1886.8	1830.9	1837.1	1849.5	1880.6
5281.8	32.5°	4267.0	2848.8	2265.4	1908.5	1818.5	1787.5	1725.4	1734.7	1747.1	1781.3
4996.3	35°	4099.4	2662.6	2166.1	1809.2	1719.2	1694.4	1623.0	1629.2	1647.8	1685.1
4689.0	37.5°	3922.5	2510.5	2066.8	1713.0	1619.9	1595.1	1520.6	1526.8	1548.5	1592.0
4366.3	40°	3748.7	2361.6	1961.3	1610.6	1517.5	1495.8	1415.1	1421.3	1446.1	1492.7
4040.5	42.5°	3559.4	2246.8	1824.7	1505.1	1405.8	1384.1	1309.6	1318.9	1346.8	1393.4
3739.4	45°	3332.9	2172.3	1672.7	1405.8	1294.1	1272.3	1204.1	1222.7	1253.7	1300.3
3481.9	47.5°	3100.2	2141.3	1545.4	1300.3	1179.2	1160.6	1104.8	1135.8	1169.9	1207.2
3261.5	50°	2876.7	2100.9	1415.1	1201.0	1079.9	1061.3	1024.1	1064.4	1098.6	1132.7
3103.3	52.5°	2622.3	2014.0	1297.2	1114.1	996.1	989.9	971.3	1008.6	1039.6	1070.6
2966.7	55°	2358.5	1874.4	1194.8	1036.5	924.8	931.0	921.7	952.7	977.5	1005.5
2842.6	57.5°	2128.8	1697.5	1114.1	952.7	862.7	881.3	868.9	884.4	899.9	934.1
2693.6	60°	1896.1	1486.5	1024.1	853.4	800.6	822.4	788.2	785.1	791.3	800.6
2473.3	62.5°	1582.7	1266.1	912.4	766.5	732.4	741.7	676.5	626.9	626.9	636.2
2166.1	65°	1272.3	1061.3	788.2	667.2	639.3	633.1	540.0	471.7	465.5	493.4
1809.2	67.5°	1045.8	881.3	664.1	555.5	536.9	543.1	474.8	406.5	400.3	431.4
1474.1	70°	865.8	710.6	530.7	428.3	446.9	474.8	406.5	341.4	332.0	360.0
1197.9	72.5°	688.9	555.5	406.5	316.5	369.3	403.4	332.0	270.0	263.8	288.6
924.8	75°	505.8	397.2	276.2	229.6	285.5	316.5	242.1	192.4	183.1	204.8
617.6	77.5°	313.4	223.4	173.8	136.5	195.5	211.0	127.2	111.7	108.6	124.1
375.5	80°	145.9	96.2	83.8	46.5	71.4	83.8	52.8	59.0	62.1	74.5
189.3	82.5°	40.3	15.5	3.1	0.0	0.0	24.8	12.4	24.8	31.0	46.5
15.5	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	15.5	27.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4
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°
6237.6	0°	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6	6237.6
5654.2	2.5°	5784.5	5908.6	6107.2	6312.0	6513.8	6718.6	6917.2	6988.6
5002.5	5°	5247.6	5533.1	5927.2	6349.3	6783.7	7224.4	7627.8	7810.9
4329.1	7.5°	4648.7	5058.3	5651.1	6312.0	7004.1	7696.1	8332.3	8627.1
3661.9	10°	4009.4	4527.7	5204.2	6097.9	7091.0	8046.8	8921.9	9303.6
3075.3	12.5°	3401.2	3944.3	4692.1	5762.8	7022.7	8248.5	9300.5	9750.5
2662.6	15°	2892.2	3373.3	4180.1	5365.5	6802.4	8260.9	9480.5	9973.9
2433.0	17.5°	2510.5	2824.0	3658.8	4924.9	6513.8	8146.1	9542.5	10070.1
2308.8	20°	2321.2	2408.1	2982.2	4360.1	6243.8	8037.5	9604.6	10160.1
2209.5	22.5°	2209.5	2231.2	2439.2	3630.8	5921.0	8003.3	9713.2	10284.2
2119.5	25°	2119.5	2125.7	2181.6	2876.7	5427.6	7981.6	9880.8	10454.9
2026.4	27.5°	2029.5	2029.5	2060.6	2318.1	4757.3	7888.5	10098.0	10659.7
1933.3	30°	1939.5	1939.5	1961.3	2051.3	3972.2	7705.4	10358.7	10926.6
1840.2	32.5°	1846.4	1846.4	1865.1	1930.2	3171.5	7475.8	10597.7	11196.6
1744.0	35°	1753.3	1747.1	1772.0	1840.2	2523.0	7184.1	10836.6	11488.3
1647.8	37.5°	1654.0	1650.9	1675.8	1753.3	2178.5	6845.8	11016.6	11885.5
1551.6	40°	1548.5	1548.5	1576.5	1660.2	2079.2	6420.7	11302.1	12456.5
1452.3	42.5°	1452.3	1446.1	1477.2	1579.6	2004.7	6014.1	11814.1	13288.2
1362.3	45°	1359.2	1346.8	1374.7	1502.0	1874.4	5871.4	12769.9	14517.1
1275.4	47.5°	1272.3	1241.3	1266.1	1408.9	1756.4	6405.1	14334.0	16220.8
1197.9	50°	1201.0	1142.0	1163.7	1315.8	1666.5	7562.7	16363.5	18483.1
1126.5	52.5°	1126.5	1048.9	1061.3	1201.0	1585.8	8664.3	18563.7	21468.4
1055.1	55°	1048.9	962.0	968.2	1086.1	1470.9	8828.8	20711.2	25539.9
974.4	57.5°	962.0	881.3	881.3	980.6	1387.2	7652.7	22362.1	30592.0
875.1	60°	865.8	813.1	797.5	896.8	1461.6	5399.7	22554.5	33850.4
747.9	62.5°	760.3	732.4	710.6	816.2	1517.5	3199.5	21006.0	33062.2
589.6	65°	639.3	633.1	617.6	896.8	1278.5	1889.9	18033.1	30644.8
502.7	67.5°	536.9	527.6	527.6	940.3	971.3	1188.6	14088.8	27318.1
428.3	70°	462.4	428.3	428.3	710.6	589.6	822.4	9837.4	23727.6
353.8	72.5°	387.9	350.7	325.8	567.9	440.7	602.0	6147.6	20320.2
270.0	75°	310.3	282.4	251.4	375.5	328.9	456.2	3571.9	16835.2
170.7	77.5°	223.4	211.0	176.9	276.2	239.0	328.9	2125.7	12990.3
105.5	80°	114.8	117.9	111.7	158.3	161.4	223.4	1210.3	8890.9
68.3	82.5°	68.3	52.8	59.0	77.6	93.1	127.2	456.2	5225.9
49.7	85°	43.4	27.9	27.9	37.2	46.5	49.7	139.6	2119.5
24.8	87.5°	21.7	9.3	12.4	18.6	15.5	12.4	6.2	533.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)