

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: P652560

Luminaire Tested: **GALN-SA8B-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28779.9 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

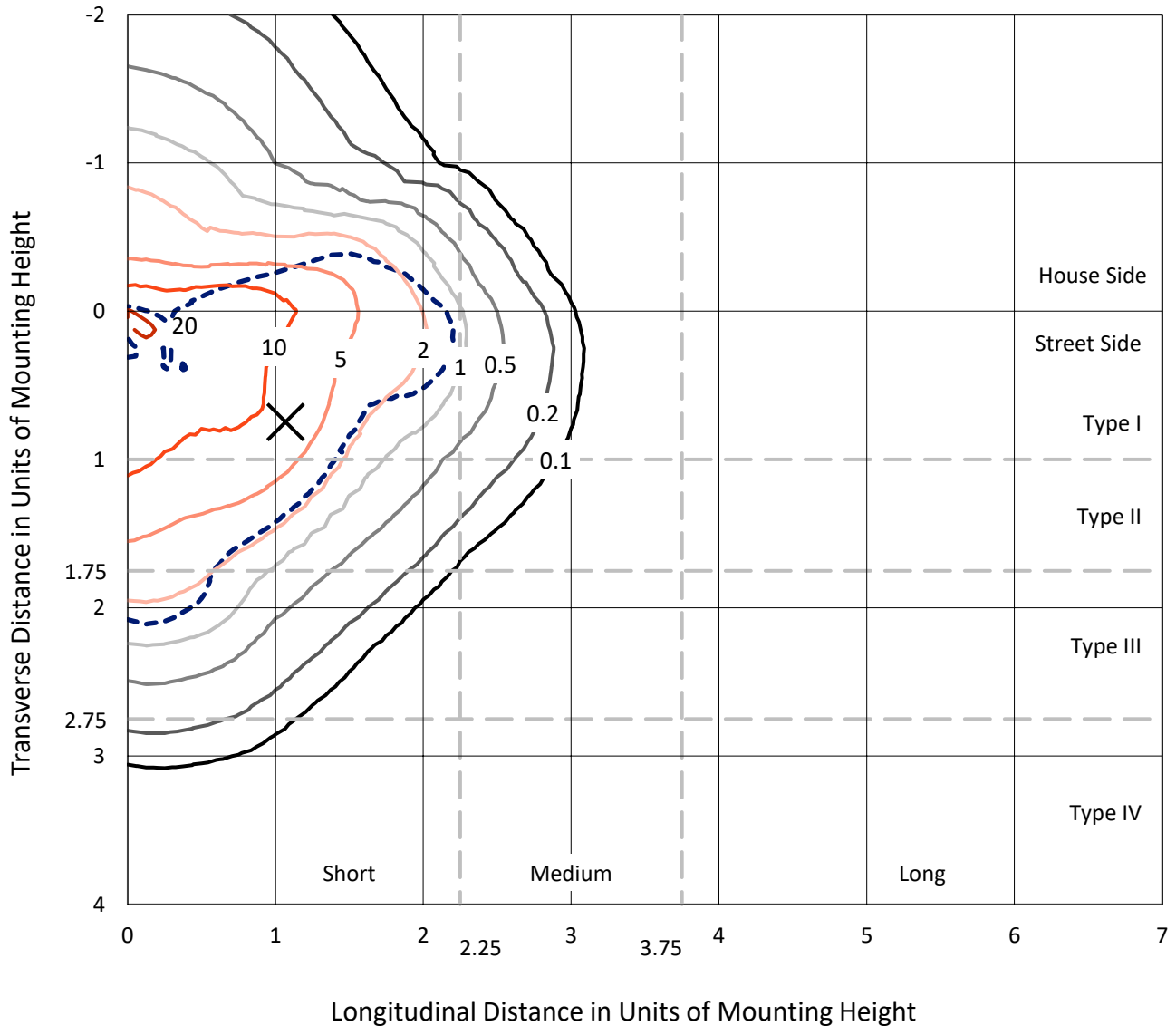
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

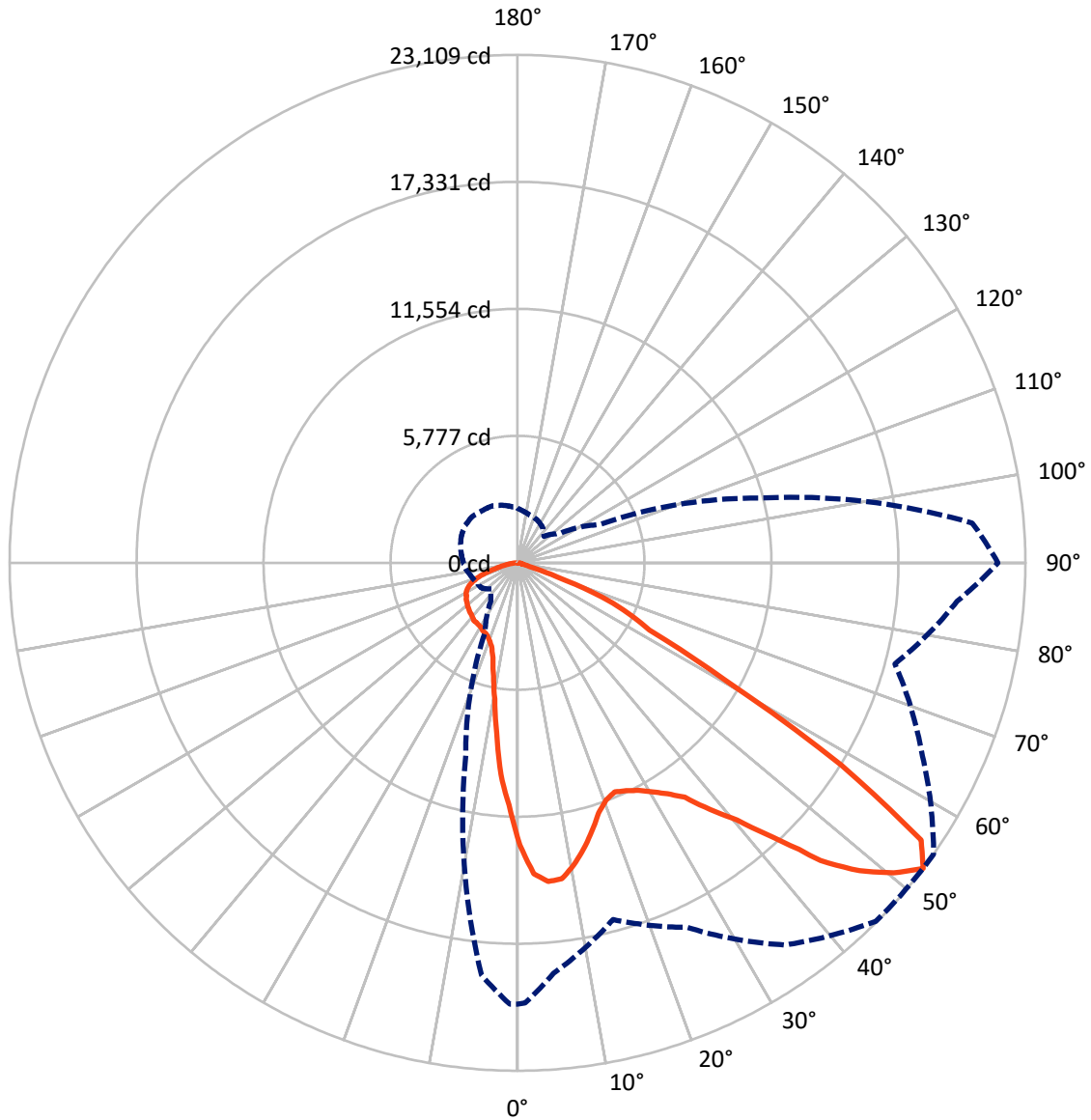
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8779.4	0.0	8779.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	20000.4	0.0	20000.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	28779.9	0.0	28779.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.8	3.4
10°-20°	2114.7	7.3
20°-30°	3206.6	11.1
30°-40°	4633.1	16.1
40°-50°	6191.1	21.5
50°-60°	6910.6	24.0
60°-70°	3790.8	13.2
70°-80°	819.6	2.8
80°-90°	132.6	0.5
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°	28779.9	100.0
0°-180°	28779.9	100.0

Coefficient of Utilization

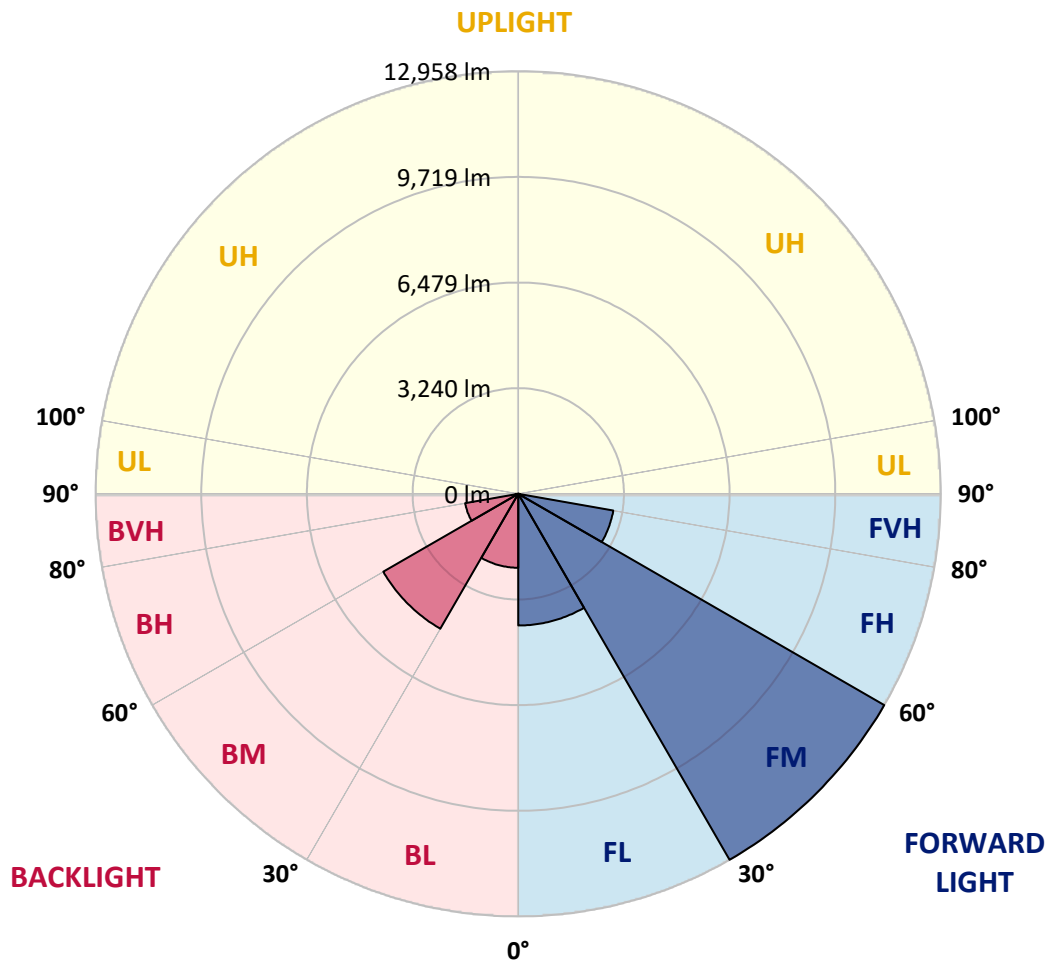


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4035.5	14.0			
FM (30°-60°)	12958.0	45.0			
FH (60°-80°)	2957.8	10.3			G2/5000
FVH (80°-90°)	49.1	0.2			G1/100
BL (0°-30°)	2266.7	7.9	B3/2500		
BM (30°-60°)	4776.7	16.6	B3/5000		
BH (60°-80°)	1652.5	5.7	B3/2500		G3/2500
BVH (80°-90°)	83.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0
2.5°	13472.6	13397.0	13464.2	13783.6	13968.5	14094.6	14174.4	14161.8	13859.2	13565.1	13565.1
5°	13077.6	12980.9	13119.6	13842.4	14569.4	14632.4	14737.5	14565.2	14119.7	13581.8	12909.5
7.5°	11934.5	12005.9	12237.1	13186.8	14132.3	14607.2	14733.3	14514.7	13792.0	12787.7	11800.1
10°	10947.0	11115.1	11648.8	12674.1	13544.1	14161.8	14300.4	13993.7	13422.2	12190.9	11308.4
12.5°	10606.6	10501.6	11094.1	12119.5	12951.5	13283.5	13346.5	13367.5	12980.9	11888.3	10812.6
15°	10564.6	10631.8	11094.1	11871.5	12384.2	12401.0	12506.1	12669.9	12720.4	12094.3	11043.7
17.5°	11169.7	11089.8	11564.8	12182.5	11938.8	11695.0	11720.3	11955.6	12371.6	12270.7	11770.6
20°	12064.8	12245.5	12619.5	12556.5	11900.9	11283.2	11287.4	11510.1	12329.6	13001.9	12783.5
22.5°	13552.5	13728.9	14006.3	13245.7	11900.9	11161.3	11018.4	11321.0	12598.5	13871.8	13926.5
25°	14909.8	15233.4	15309.0	14413.9	12497.7	11274.8	11182.4	11480.7	12867.5	14720.7	15237.6
27.5°	16145.3	16262.9	16594.9	15166.1	12829.6	11350.4	11342.1	11724.5	13207.8	15145.1	16410.0
30°	17120.2	17107.6	17296.7	15641.0	13359.1	11774.8	11367.2	12090.0	13653.3	15846.9	17494.2
32.5°	17784.1	17927.0	18326.2	16300.8	13581.8	12178.3	11858.9	12518.7	14195.4	16178.9	18259.0
35°	18952.4	19200.4	18696.0	16666.3	14287.8	12577.5	12203.5	13102.8	14464.4	16540.3	19196.2
37.5°	20053.4	19864.3	19351.6	16863.8	14745.9	13317.1	12968.3	14233.2	15300.6	17326.1	19818.1
40°	20759.4	20755.2	19843.3	17023.5	15069.5	14447.5	14426.5	15380.5	16326.0	17822.0	20515.7
42.5°	21066.1	21360.3	20045.0	17006.7	15750.2	15817.4	16241.9	17095.0	17053.0	17922.8	20498.9
44°	21486.4	21662.9	20393.8	17044.5	16204.1	16742.0	17742.2	18284.3	17687.5	17868.2	20477.8
45°	21469.6	21482.2	19897.9	17095.0	16590.7	17515.2	18410.3	19326.4	18246.4	17750.6	20755.2
47.5°	20977.9	20835.0	19477.7	16721.0	17796.7	19557.5	20385.4	20940.1	18935.6	17498.4	20410.6
50°	20007.1	19843.3	18456.5	16561.3	18048.9	20826.6	21969.7	22171.4	19561.7	17250.4	20070.2
52.5°	20074.4	20028.2	18746.5	16800.8	18301.0	21225.8	23058.0	23108.5	20271.9	17771.6	20074.4
55°	21276.3	21116.6	19578.6	17099.2	18116.1	20759.4	22364.7	22276.4	20032.4	17456.4	20444.2
57.5°	19469.3	19574.4	18427.2	15918.4	15855.3	16876.4	17582.5	17364.0	16716.8	15754.5	19019.6
60°	15708.2	16006.6	16115.8	13312.9	11964.0	11438.7	11228.5	10841.9	10951.2	12943.1	16708.4
62.5°	13472.6	13455.7	14140.7	12069.0	7837.3	6740.5	6639.6	6727.9	7988.6	12741.4	16363.8
65°	10682.3	10968.0	11178.2	10228.4	6202.6	5005.0	5000.8	5559.7	6912.8	10648.7	13212.0
67.5°	6782.5	7156.5	7417.0	6543.0	4147.6	3563.6	3466.9	4139.2	4790.6	6984.3	7954.9
70°	3824.1	4000.6	4118.3	3773.7	2639.1	1849.0	1739.8	1899.5	2895.4	4521.7	4715.0
72.5°	1475.0	1554.8	1714.5	1727.2	995.9	596.7	483.2	580.0	1218.7	1790.2	1706.1
75°	226.9	243.7	344.6	411.8	285.8	218.5	231.1	239.5	340.4	462.2	386.6
77.5°	109.2	109.2	105.0	121.9	142.9	155.5	168.1	184.9	201.7	222.7	214.3
80°	71.4	71.4	71.4	84.0	105.0	126.1	142.9	151.3	159.7	176.5	168.1
82.5°	46.3	46.3	46.3	63.1	84.0	105.0	113.5	134.5	151.3	176.5	163.9
85°	25.2	25.2	25.2	42.0	63.1	88.2	84.0	67.2	37.8	4.2	8.4
87.5°	8.4	8.4	8.4	8.4	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0
2.5°	13212.0	13018.8	13001.9	12606.9	12254.0	12081.6	11943.0	11556.3	11640.4	11417.7	11413.5
5°	12573.3	12178.3	11539.5	11014.2	10489.0	10383.9	9925.8	9526.6	9539.2	9253.4	9303.9
7.5°	11426.1	11152.9	10375.5	9551.8	8854.3	8358.4	7925.6	7665.0	7333.0	7219.6	7160.7
10°	10699.0	10362.9	9488.8	8455.1	7673.5	7408.7	6992.7	6761.5	6421.1	6253.0	6135.3
12.5°	10379.7	9888.1	8795.4	7744.9	7223.8	6950.6	6597.6	6177.4	5774.0	5618.5	5404.2
15°	10413.3	9825.0	8593.7	7459.1	6833.0	6303.5	5988.3	5521.8	5110.0	4836.8	4681.3
17.5°	10921.8	10207.4	8686.2	7240.6	6341.3	5677.3	5059.5	4555.3	4227.5	4021.6	3971.2
20°	12123.7	11152.9	8841.7	6887.5	5849.6	5021.8	4261.2	3735.9	3483.7	3479.5	3483.7
22.5°	13123.8	12161.4	9156.8	6677.5	5357.9	4181.3	3424.9	3256.8	3206.4	3311.4	3324.1
25°	14472.8	13296.1	9698.9	6568.2	4904.1	3563.6	3097.1	3034.1	3029.9	3164.3	3168.6
27.5°	15855.3	14287.8	10022.5	6248.8	4441.8	3244.2	2899.6	2887.0	2954.2	3097.1	3084.5
30°	16796.6	15119.9	10606.6	5866.4	3895.5	2962.6	2819.8	2836.5	2929.0	3038.3	3055.1
32.5°	17893.5	15939.3	10757.9	5656.3	3559.4	2727.3	2626.4	2664.3	2781.9	2954.2	3046.7
35°	19149.9	16519.3	10989.0	5370.5	3433.3	2546.6	2496.2	2538.2	2681.1	2794.6	2895.4
37.5°	20078.6	17544.6	11031.1	5147.8	3294.6	2445.7	2365.9	2504.6	2588.6	2748.3	2798.8
40°	20767.8	18288.5	11140.3	5009.2	3185.4	2315.4	2315.4	2408.0	2521.4	2668.5	2769.3
42.5°	21209.0	18830.5	11220.1	4883.1	2975.2	2277.7	2256.7	2349.1	2500.4	2643.3	2689.4
44°	21478.0	19061.7	11140.3	4765.4	2916.4	2231.4	2231.4	2311.2	2428.9	2597.0	2651.7
45°	21545.2	19351.6	10963.8	4761.2	2844.9	2176.8	2168.4	2319.6	2399.5	2605.4	2639.1
47.5°	21805.8	19708.8	10984.8	4626.8	2672.7	2046.5	2193.6	2260.9	2332.3	2513.0	2626.4
50°	21797.4	19931.5	10938.6	4429.2	2546.6	1899.5	2143.2	2218.8	2290.3	2475.1	2521.4
52.5°	21856.2	20763.6	11363.0	4114.1	2319.6	1710.3	1975.1	2143.2	2231.4	2386.9	2483.6
55°	21826.8	21238.4	11783.3	3878.7	2000.3	1596.9	1832.2	2029.8	2155.8	2319.6	2365.9
57.5°	19935.7	18771.7	10905.0	3437.5	1655.7	1462.4	1630.5	1912.0	2071.7	2239.8	2298.6
60°	16288.2	14468.6	8992.9	2529.8	1361.6	1344.8	1517.0	1874.3	1941.4	2088.5	2189.4
62.5°	15052.6	12690.9	7131.3	1933.0	1164.0	1231.3	1399.3	1693.5	1798.6	1979.3	2071.7
65°	11779.0	8429.8	4416.6	1306.9	1025.3	1105.2	1264.9	1483.4	1655.7	1823.8	1933.0
67.5°	6975.8	4605.7	2185.2	916.1	895.1	979.2	1143.0	1306.9	1504.5	1689.3	1744.0
70°	3798.9	2265.1	932.9	697.6	760.6	836.3	995.9	1109.4	1298.5	1441.4	1533.8
72.5°	1218.7	689.2	466.4	516.9	580.0	668.2	764.8	903.5	1038.0	1122.0	1197.7
75°	294.2	290.0	331.9	361.4	420.2	487.4	567.3	638.7	743.8	823.7	890.9
77.5°	205.9	222.7	256.3	298.4	319.4	344.6	395.0	449.7	495.9	554.7	596.7
80°	159.7	172.3	197.5	218.5	239.5	260.5	285.8	306.8	336.1	374.0	395.0
82.5°	151.3	159.7	184.9	197.5	189.1	184.9	201.7	210.1	214.3	226.9	239.5
85°	12.6	0.0	8.4	29.4	71.4	105.0	113.5	113.5	109.2	117.7	117.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	16.8	12.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0
2.5°	11363.0	11220.1	11274.8	11342.1	11245.3	11022.7	11081.5	11056.3	11283.2	11266.4	11493.3
5°	9526.6	9303.9	9329.1	9656.9	9551.8	9665.3	9438.4	9408.9	9451.0	9472.0	9509.9
7.5°	7291.0	7261.6	7513.7	7791.1	7921.4	7786.9	7564.1	7513.7	7467.5	7375.1	7585.1
10°	5950.5	5958.9	5942.1	6152.2	6299.3	6269.8	6135.3	6118.5	6030.3	5996.7	6114.3
12.5°	5311.8	5198.2	5143.6	5076.4	5189.8	5265.5	5206.6	5164.7	5168.9	5210.8	5227.7
15°	4694.0	4622.6	4504.9	4429.2	4483.9	4446.0	4425.0	4509.1	4488.1	4479.7	4580.5
17.5°	4000.6	4059.4	4051.0	3967.0	4038.4	4009.0	4004.8	3946.0	3866.2	3807.3	3840.9
20°	3542.5	3651.8	3735.9	3740.0	3777.9	3773.7	3710.7	3529.9	3471.1	3458.5	3466.9
22.5°	3378.6	3437.5	3538.3	3681.2	3681.2	3613.9	3538.3	3328.3	3273.6	3214.7	3189.6
25°	3248.4	3361.8	3492.1	3508.9	3576.2	3513.1	3391.2	3286.2	3172.8	3092.9	3092.9
27.5°	3181.2	3307.2	3403.9	3433.3	3525.7	3475.3	3349.2	3214.7	3080.3	3076.1	3004.6
30°	3151.7	3269.4	3332.5	3403.9	3445.9	3366.0	3328.3	3185.4	3050.9	3017.3	2899.6
32.5°	3063.5	3231.5	3349.2	3332.5	3366.0	3332.5	3277.8	3160.1	3008.8	2933.2	2920.6
35°	2962.6	3130.7	3256.8	3345.0	3366.0	3294.6	3261.0	3101.3	2895.4	2857.5	2727.3
37.5°	2908.0	3008.8	3164.3	3307.2	3336.7	3298.8	3185.4	3021.5	2815.6	2773.5	2660.1
40°	2840.7	2971.0	3092.9	3210.6	3298.8	3206.4	3076.1	2916.4	2823.9	2697.8	2664.3
42.5°	2790.4	2937.4	3038.3	3168.6	3269.4	3147.5	2996.2	2887.0	2756.7	2672.7	2576.0
44°	2773.5	2908.0	2975.2	3134.9	3218.9	3126.5	3000.4	2887.0	2735.7	2660.1	2576.0
45°	2714.7	2899.6	2971.0	3113.9	3185.4	3109.7	2950.1	2836.5	2727.3	2634.9	2546.6
47.5°	2655.9	2781.9	2903.8	3017.3	3067.7	3042.5	2908.0	2769.3	2639.1	2584.4	2500.4
50°	2639.1	2765.1	2878.6	2983.6	3042.5	2992.0	2870.2	2735.7	2584.4	2496.2	2424.8
52.5°	2555.0	2710.5	2836.5	2870.2	2945.9	2916.4	2823.9	2676.9	2534.0	2458.3	2399.5
55°	2433.1	2597.0	2769.3	2811.4	2920.6	2874.4	2735.7	2597.0	2475.1	2361.7	2286.1
57.5°	2386.9	2546.6	2714.7	2769.3	2836.5	2760.9	2727.3	2580.2	2386.9	2328.1	2210.4
60°	2269.3	2470.9	2609.6	2735.7	2739.9	2718.9	2660.1	2492.0	2332.3	2223.0	2139.0
62.5°	2176.8	2365.9	2475.1	2592.8	2664.3	2605.4	2546.6	2391.1	2218.8	2096.9	2000.3
65°	2042.3	2214.6	2307.0	2378.5	2458.3	2449.9	2349.1	2235.6	2054.9	1958.3	1865.8
67.5°	1836.4	1987.7	2113.8	2181.0	2231.4	2218.8	2143.2	2063.3	1878.5	1781.7	1714.5
70°	1588.5	1744.0	1823.8	1861.6	1912.0	1937.2	1878.5	1840.6	1676.7	1550.6	1487.6
72.5°	1277.5	1378.3	1496.1	1529.6	1550.6	1567.5	1567.5	1533.8	1365.8	1315.3	1206.1
75°	941.3	1021.1	1109.4	1109.4	1147.2	1151.4	1159.8	1138.8	1012.7	945.5	920.3
77.5°	638.7	697.6	769.0	798.4	823.7	819.5	815.3	756.4	689.2	659.8	634.5
80°	416.0	474.8	508.5	546.3	571.5	567.3	575.7	533.7	504.3	453.9	462.2
82.5°	247.9	294.2	327.8	374.0	374.0	386.6	386.6	374.0	344.6	319.4	319.4
85°	117.7	155.5	176.5	205.9	222.7	226.9	201.7	172.3	142.9	130.3	142.9
87.5°	21.0	29.4	42.0	37.8	46.3	42.0	42.0	42.0	42.0	33.6	37.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0	12838.0
2.5°	11409.3	11619.3	11766.4	12010.2	12430.4	12766.6	13111.2	13367.5	13397.0	13472.6
5°	9648.5	9762.0	10136.0	10623.4	10968.0	11535.3	11900.9	12564.9	12812.8	13077.6
7.5°	7534.8	7719.6	8219.7	8547.5	9303.9	10014.1	10749.5	11569.0	11896.7	11934.5
10°	6353.9	6622.9	6963.2	7488.5	7900.4	8690.4	9606.5	10518.4	10884.0	10947.0
12.5°	5580.6	5925.3	6379.1	6757.3	7152.3	7841.5	8719.8	9846.0	10320.8	10606.6
15°	4836.8	5194.0	5694.2	6219.4	6568.2	7391.9	8425.6	9694.7	10312.4	10564.6
17.5°	4072.0	4404.0	4815.8	5383.2	6085.0	7009.5	8379.4	10199.0	10875.6	11169.7
20°	3416.5	3601.4	4080.4	4664.5	5542.9	6618.7	8396.2	10942.8	11934.5	12064.8
22.5°	3160.1	3202.2	3391.2	3929.2	4891.5	6219.4	8694.6	11997.6	13123.8	13552.5
25°	2962.6	2954.2	3004.6	3366.0	4416.6	6063.9	8988.7	12968.3	14443.3	14909.8
27.5°	2853.3	2769.3	2773.5	3113.9	4080.4	5811.8	9367.0	14082.0	15939.3	16145.3
30°	2798.8	2781.9	2731.5	2870.2	3714.9	5433.6	9430.0	15178.7	16821.9	17120.2
32.5°	2765.1	2601.2	2538.2	2588.6	3370.2	5021.8	9665.3	15901.5	17914.4	17784.1
35°	2597.0	2449.9	2408.0	2458.3	3126.5	4790.6	9509.9	16531.9	18733.9	18952.4
37.5°	2534.0	2403.7	2319.6	2277.7	2899.6	4597.3	9430.0	17502.6	19528.1	20053.4
40°	2475.1	2336.5	2235.6	2193.6	2723.1	4341.0	9404.7	18250.6	20444.2	20759.4
42.5°	2408.0	2319.6	2206.2	2130.6	2508.8	4084.7	9114.8	18481.7	20725.8	21066.1
44°	2386.9	2252.5	2134.8	2109.6	2424.8	3954.4	9056.0	18691.9	20969.5	21486.4
45°	2365.9	2239.8	2105.4	2071.7	2395.3	3882.9	8976.2	18742.3	21372.9	21469.6
47.5°	2307.0	2227.2	2096.9	2004.5	2332.3	3727.5	8736.6	18456.5	20961.1	20977.9
50°	2260.9	2168.4	2033.9	1853.2	2248.2	3597.2	8845.9	18351.5	19969.4	20007.1
52.5°	2210.4	2071.7	1996.1	1685.1	2109.6	3487.9	9077.0	18826.3	20082.8	20074.4
55°	2151.6	2000.3	1815.4	1542.2	1878.5	3349.2	9635.9	19763.4	21133.4	21276.3
57.5°	2059.1	1928.8	1664.1	1416.2	1613.7	3084.5	9455.2	17969.1	19444.1	19469.3
60°	1937.2	1815.4	1508.6	1319.5	1323.7	2433.1	8455.1	14002.1	15342.6	15708.2
62.5°	1819.6	1752.4	1378.3	1180.8	1126.2	1937.2	7148.2	11636.2	13170.1	13472.6
65°	1680.9	1517.0	1264.9	1075.8	966.6	1357.4	5063.7	8694.6	10274.7	10682.3
67.5°	1504.5	1327.9	1113.7	945.5	827.9	907.7	2613.8	4941.9	6543.0	6782.5
70°	1315.3	1151.4	937.1	798.4	668.2	626.1	1151.4	2357.5	3576.2	3824.1
72.5°	1080.0	928.7	748.0	630.3	500.1	432.9	386.6	630.3	1269.1	1475.0
75°	781.6	676.6	563.1	449.7	353.0	277.4	226.9	189.1	210.1	226.9
77.5°	575.7	491.6	416.0	319.4	247.9	197.5	155.5	117.7	113.5	109.2
80°	449.7	399.2	331.9	256.3	193.3	147.1	109.2	79.8	71.4	71.4
82.5°	353.0	327.8	273.2	210.1	159.7	117.7	79.8	54.7	46.3	46.3
85°	134.5	134.5	197.5	172.3	121.9	84.0	54.7	29.4	25.2	25.2
87.5°	33.6	33.6	33.6	33.6	29.4	25.2	25.2	12.6	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)