

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: P452459

Luminaire Tested: **GALN-SA3B-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13474 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
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

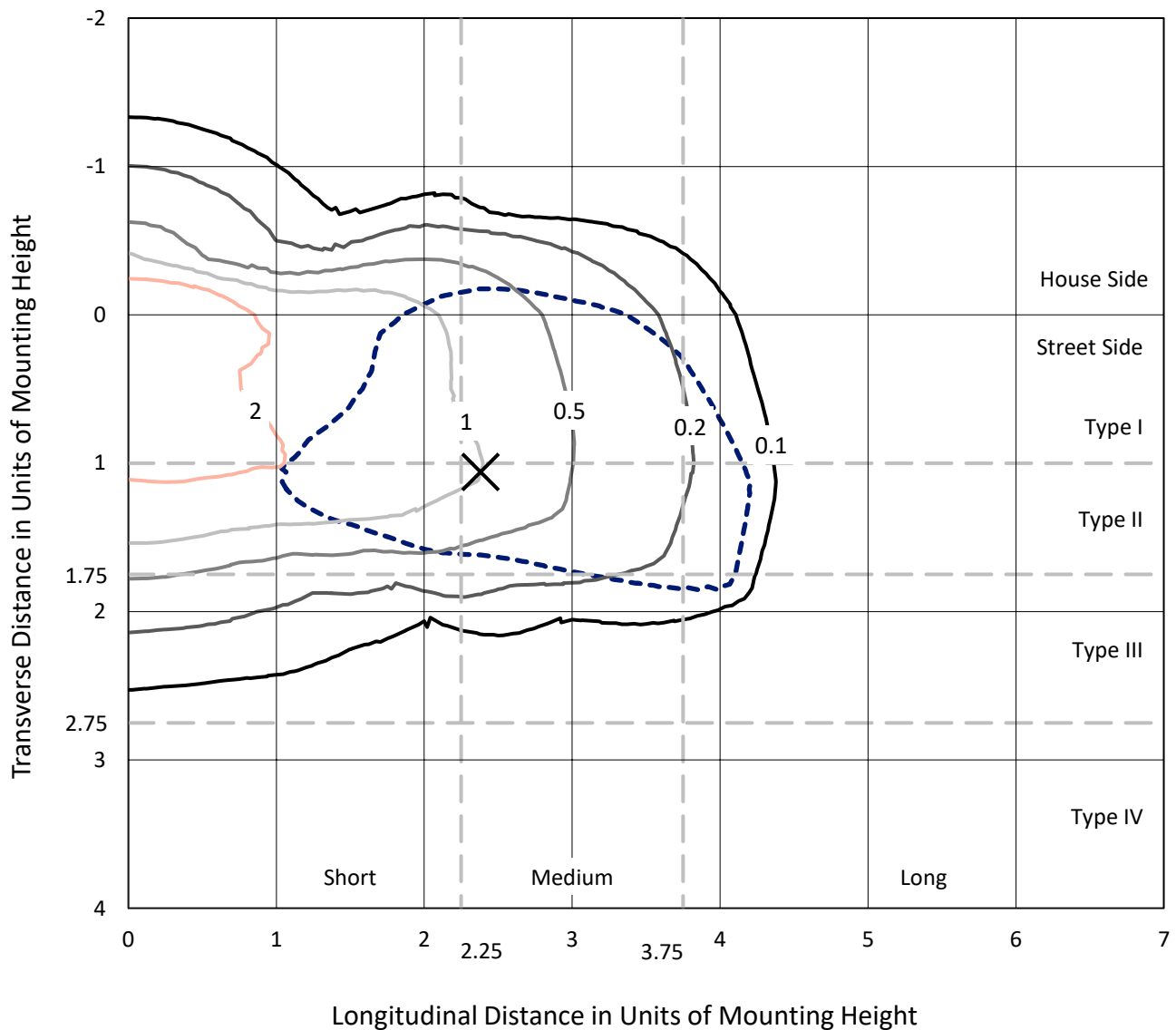


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

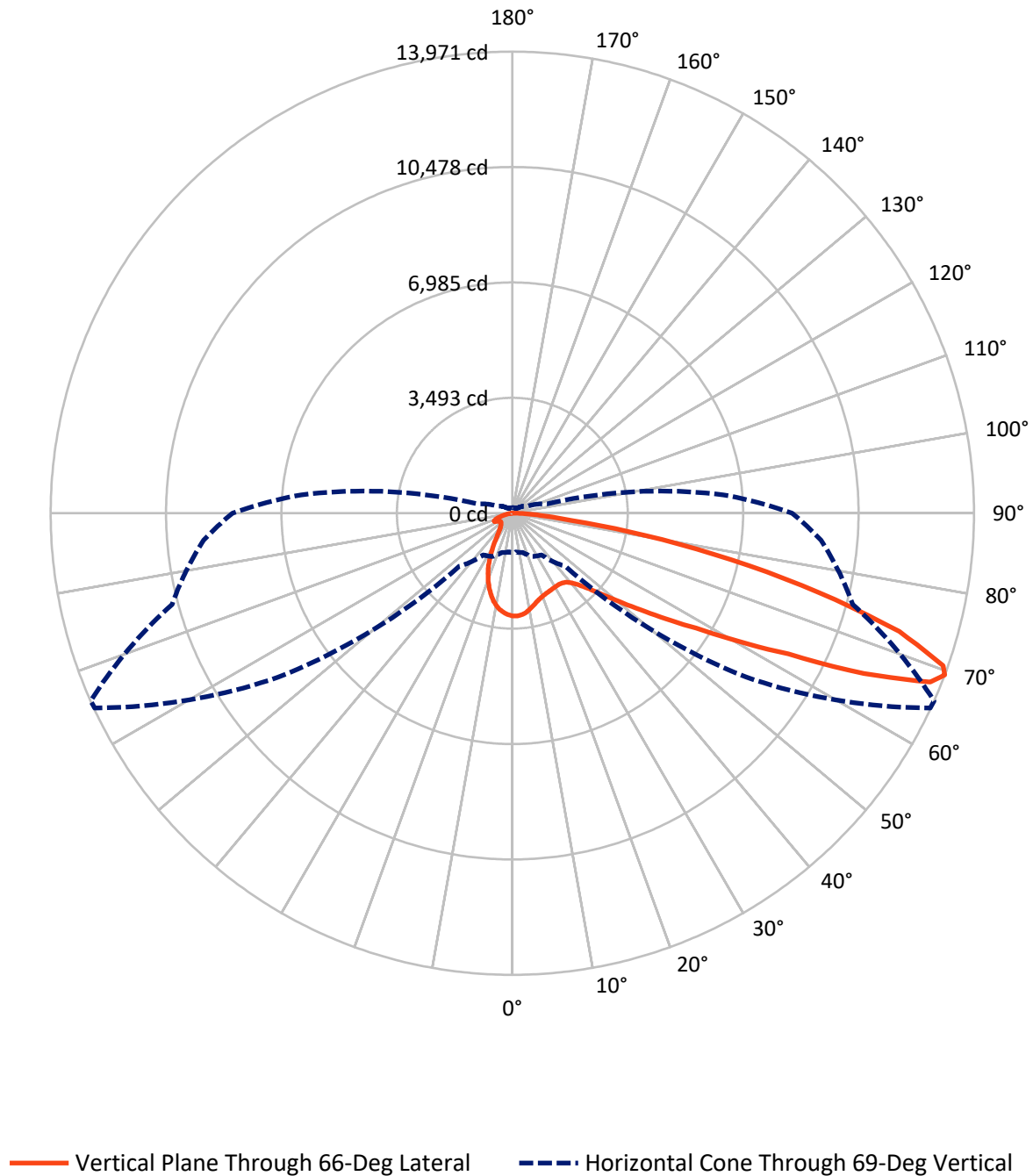


Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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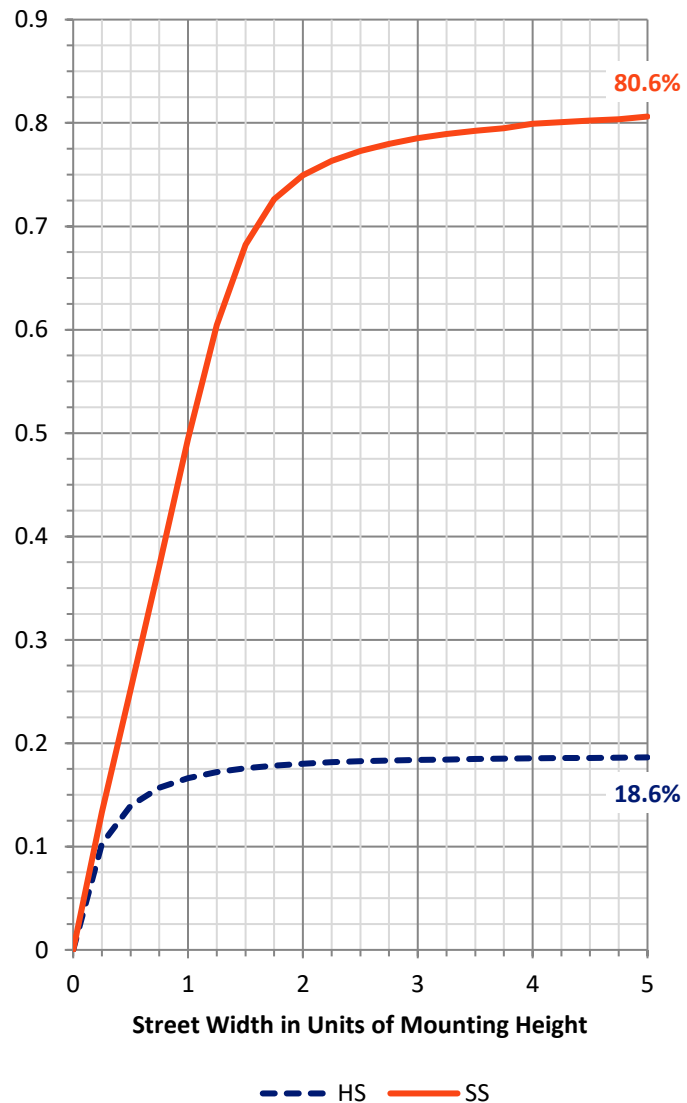
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2534.0	0.0	2534.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10940.0	0.0	10940.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	13474.0	0.0	13474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	2.0
10°-20°	640.9	4.8
20°-30°	872.5	6.5
30°-40°	1172.4	8.7
40°-50°	1750.7	13.0
50°-60°	2784.7	20.7
60°-70°	3425.0	25.4
70°-80°	2228.5	16.5
80°-90°	329.1	2.4
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°	13474.0	100.0
0°-180°	13474.0	100.0

Coefficient of Utilization



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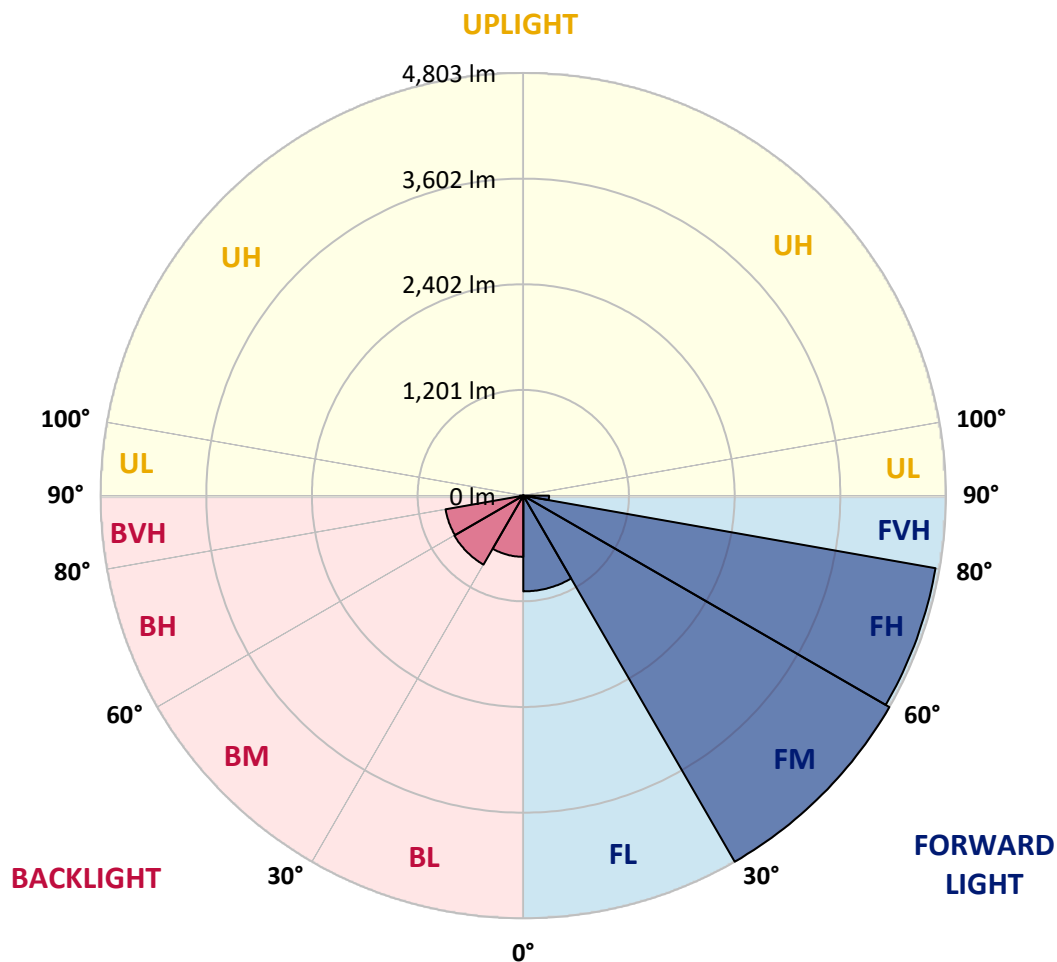
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1088.0	8.1			
FM	(30°-60°)	4803.1	35.6			
FH	(60°-80°)	4756.4	35.3			G2/5000
FVH	(80°-90°)	292.6	2.2			G3/500
BL	(0°-30°)	695.6	5.2	B2/1000		
BM	(30°-60°)	904.7	6.7	B1/1000		
BH	(60°-80°)	897.1	6.7	B2/1000		G2/1000
BVH	(80°-90°)	36.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5
2.5°	3002.6	3014.5	3028.0	3042.9	3071.2	3086.9	3098.1	3110.8	3112.3	3119.0	3113.8
5°	2781.0	2795.1	2815.3	2843.6	2886.2	2952.6	3021.2	3077.2	3083.9	3115.3	3124.2
7.5°	2595.9	2604.1	2620.5	2666.1	2726.5	2800.4	2900.4	3013.8	3030.2	3104.8	3130.9
10°	2445.2	2453.4	2472.8	2519.8	2579.5	2672.0	2781.7	2930.9	2944.4	3072.7	3132.4
12.5°	2332.5	2340.0	2360.9	2407.1	2475.8	2562.3	2683.2	2841.4	2860.8	3030.2	3118.2
15°	2246.7	2260.9	2278.1	2316.1	2388.5	2472.1	2589.2	2759.3	2775.0	2985.4	3108.5
17.5°	2210.1	2216.9	2228.8	2263.9	2316.9	2398.9	2516.8	2695.2	2713.8	2954.1	3106.3
20°	2211.6	2218.4	2220.6	2240.0	2278.1	2348.9	2465.3	2644.4	2666.8	2926.5	3110.0
22.5°	2262.4	2263.1	2254.9	2248.2	2263.1	2322.1	2428.8	2606.4	2632.5	2914.5	3113.0
25°	2340.7	2354.2	2342.2	2310.9	2283.3	2311.6	2414.6	2585.5	2610.1	2897.4	3109.3
27.5°	2467.6	2469.8	2460.1	2417.6	2346.0	2325.1	2408.6	2569.8	2590.7	2884.7	3090.6
30°	2637.7	2631.0	2622.0	2575.0	2462.4	2376.5	2421.3	2555.6	2577.3	2866.0	3068.2
32.5°	2810.1	2831.0	2822.8	2767.5	2621.3	2476.5	2462.4	2554.1	2572.0	2851.9	3043.6
35°	2992.9	3002.6	3041.4	3013.0	2863.0	2638.5	2539.2	2577.3	2591.4	2852.6	3026.5
37.5°	3136.1	3162.3	3253.3	3277.9	3136.9	2852.6	2663.8	2642.9	2648.9	2889.2	3033.2
40°	3309.3	3354.0	3471.2	3571.9	3479.4	3130.9	2875.7	2764.6	2772.0	2977.2	3077.2
42.5°	3528.6	3560.0	3717.4	3854.0	3839.0	3498.8	3132.4	2963.8	2967.5	3152.6	3200.3
45°	3785.3	3830.1	4006.9	4212.1	4247.2	3915.1	3503.3	3265.2	3263.0	3424.9	3430.1
47.5°	4113.6	4141.2	4316.6	4540.4	4682.2	4438.2	3953.2	3698.0	3674.1	3821.9	3779.3
50°	4415.8	4459.1	4591.9	4836.7	5189.6	5050.8	4544.9	4259.1	4203.2	4341.2	4269.6
52.5°	4542.7	4588.2	4700.1	5003.8	5624.6	5843.2	5296.3	4928.4	4835.2	4941.1	4915.0
55°	4322.6	4381.5	4486.0	4855.3	5815.6	6757.3	6309.6	5702.2	5634.3	5588.8	5596.3
57.5°	3730.8	3786.8	3927.8	4335.2	5587.3	7420.6	7756.4	6696.9	6551.4	6341.7	6377.5
60°	2839.9	2875.0	2948.1	3399.5	4910.5	7593.0	9399.5	7954.2	7861.6	7091.6	7117.0
62.5°	2016.9	2056.4	2107.2	2332.5	3595.0	7107.3	10685.9	9709.9	9379.3	7868.3	7843.7
65°	1637.8	1611.0	1672.2	1777.4	2109.4	5508.2	10975.4	12146.9	11691.7	8891.3	8549.6
67.5°	1346.8	1318.5	1378.9	1566.2	1604.3	3197.3	9932.2	13728.7	13637.7	10003.9	9266.7
69°	1192.4	1177.5	1230.4	1443.8	1540.1	2270.6	8652.6	13948.9	13970.5	10659.8	9377.1
70°	1074.5	1080.5	1131.9	1381.9	1511.0	1872.1	7395.3	13645.2	13828.7	10987.3	9257.7
72.5°	790.9	803.6	875.3	1144.6	1483.4	1588.6	4400.9	11918.5	12243.1	11006.7	8469.0
75°	552.9	546.9	610.4	861.8	1401.3	1574.4	2584.7	9217.4	9585.3	9513.6	7116.2
77.5°	361.9	371.6	422.3	608.9	1178.9	1562.5	1684.8	6539.4	6778.2	6362.6	4209.1
80°	255.2	254.4	282.8	415.6	874.5	1501.3	1379.7	4121.8	4061.4	2500.4	1248.3
82.5°	146.2	156.7	189.5	292.5	585.0	1321.5	1269.2	1971.4	1799.8	712.6	421.6
85°	81.3	85.1	112.7	176.8	341.7	995.4	1108.1	896.9	846.2	297.7	181.3
87.5°	26.1	28.4	47.0	89.5	155.2	470.1	627.5	414.1	382.0	107.4	73.1
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°	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5	3111.5
2.5°	3116.0	3125.0	3101.1	3077.9	3057.1	3028.0	3001.8	2980.2	2965.3	2963.0	2955.6
5°	3126.4	3127.2	3081.7	3020.5	2960.8	2895.1	2827.2	2778.7	2733.2	2707.8	2695.2
7.5°	3133.9	3127.2	3045.1	2945.9	2831.0	2711.6	2592.2	2496.7	2422.8	2393.7	2404.9
10°	3130.9	3110.0	2989.9	2831.0	2663.8	2485.5	2313.9	2179.6	2056.4	1993.0	1994.5
12.5°	3114.5	3080.2	2907.8	2701.9	2456.4	2217.6	1955.0	1773.6	1631.1	1546.8	1520.7
15°	3100.3	3040.6	2811.6	2526.5	2221.3	1880.3	1560.2	1336.4	1217.0	1150.6	1149.8
17.5°	3085.4	3002.6	2706.4	2340.7	1951.2	1512.5	1176.7	1005.8	949.9	956.6	945.4
20°	3069.7	2957.8	2596.7	2134.0	1622.2	1128.2	881.2	811.8	827.5	858.1	862.6
22.5°	3051.8	2910.1	2478.8	1906.5	1275.9	849.1	714.8	704.4	744.7	792.4	799.1
25°	3024.2	2850.4	2330.3	1668.4	984.2	684.2	626.0	633.5	673.0	713.3	717.8
27.5°	2985.4	2776.5	2180.3	1371.5	739.5	587.2	572.3	582.0	601.4	626.0	632.0
30°	2933.2	2692.9	2007.9	1114.8	592.5	538.7	532.8	538.0	549.2	559.6	562.6
32.5°	2881.0	2612.3	1834.1	853.6	528.3	506.6	500.7	500.7	500.7	502.2	502.9
35°	2832.5	2536.2	1647.5	664.8	494.7	481.3	473.1	464.1	462.6	457.4	457.4
37.5°	2805.6	2466.8	1449.1	556.6	470.1	460.4	449.2	434.3	426.1	426.8	425.3
40°	2810.8	2421.3	1268.5	495.5	449.9	439.5	422.3	405.2	399.9	399.9	398.5
42.5°	2869.8	2406.4	1095.4	463.4	430.5	418.6	397.0	381.3	378.3	377.6	379.1
45°	3005.6	2443.0	940.2	442.5	414.1	396.2	374.6	360.4	357.4	357.4	356.7
47.5°	3270.5	2561.6	829.0	429.0	402.2	379.1	356.7	342.5	337.3	335.8	335.8
50°	3682.3	2819.0	746.2	417.1	387.3	363.4	340.3	323.8	315.6	314.9	314.1
52.5°	4254.7	3220.5	714.1	408.2	370.8	347.0	321.6	305.9	295.5	293.2	291.8
55°	4924.0	3780.8	758.1	401.4	353.7	328.3	302.2	285.8	276.1	271.6	270.9
57.5°	5699.2	4453.9	925.2	392.5	338.0	308.2	282.8	266.4	255.9	250.7	249.2
60°	6395.4	5145.6	1217.0	387.3	324.6	286.5	260.4	245.5	235.8	230.6	229.8
62.5°	7160.2	5805.2	1565.5	401.4	318.6	265.6	239.5	226.1	217.9	212.7	212.7
65°	7977.3	6465.5	1796.0	449.2	327.6	249.2	217.1	205.9	198.5	194.7	194.0
67.5°	8528.0	6693.9	1479.7	498.4	350.0	231.3	195.5	186.5	182.1	178.3	178.3
69°	8468.3	6405.1	1091.6	511.1	356.7	222.4	183.6	176.8	170.9	169.4	167.9
70°	8279.5	6076.0	914.8	502.9	351.4	214.2	176.1	167.9	162.7	161.2	160.4
72.5°	7374.4	5269.4	681.3	437.3	299.2	185.8	155.9	148.5	144.0	141.8	141.8
75°	6126.8	4306.9	532.0	347.7	234.3	156.7	133.6	127.6	123.9	122.4	121.6
77.5°	3433.9	2404.9	382.0	272.4	177.6	126.8	111.9	106.7	103.0	101.5	101.5
80°	956.6	687.2	224.6	179.8	120.9	96.3	88.8	85.1	79.8	76.1	78.3
82.5°	360.4	297.7	128.3	108.2	76.9	64.2	61.9	58.9	56.7	51.5	51.5
85°	175.3	144.8	82.1	57.5	42.5	33.6	32.1	30.6	29.1	25.4	26.1
87.5°	60.4	64.2	35.8	20.9	12.7	8.2	6.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)