

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: P453386

Luminaire Tested: **GALN-SA4B-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14639 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 164
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

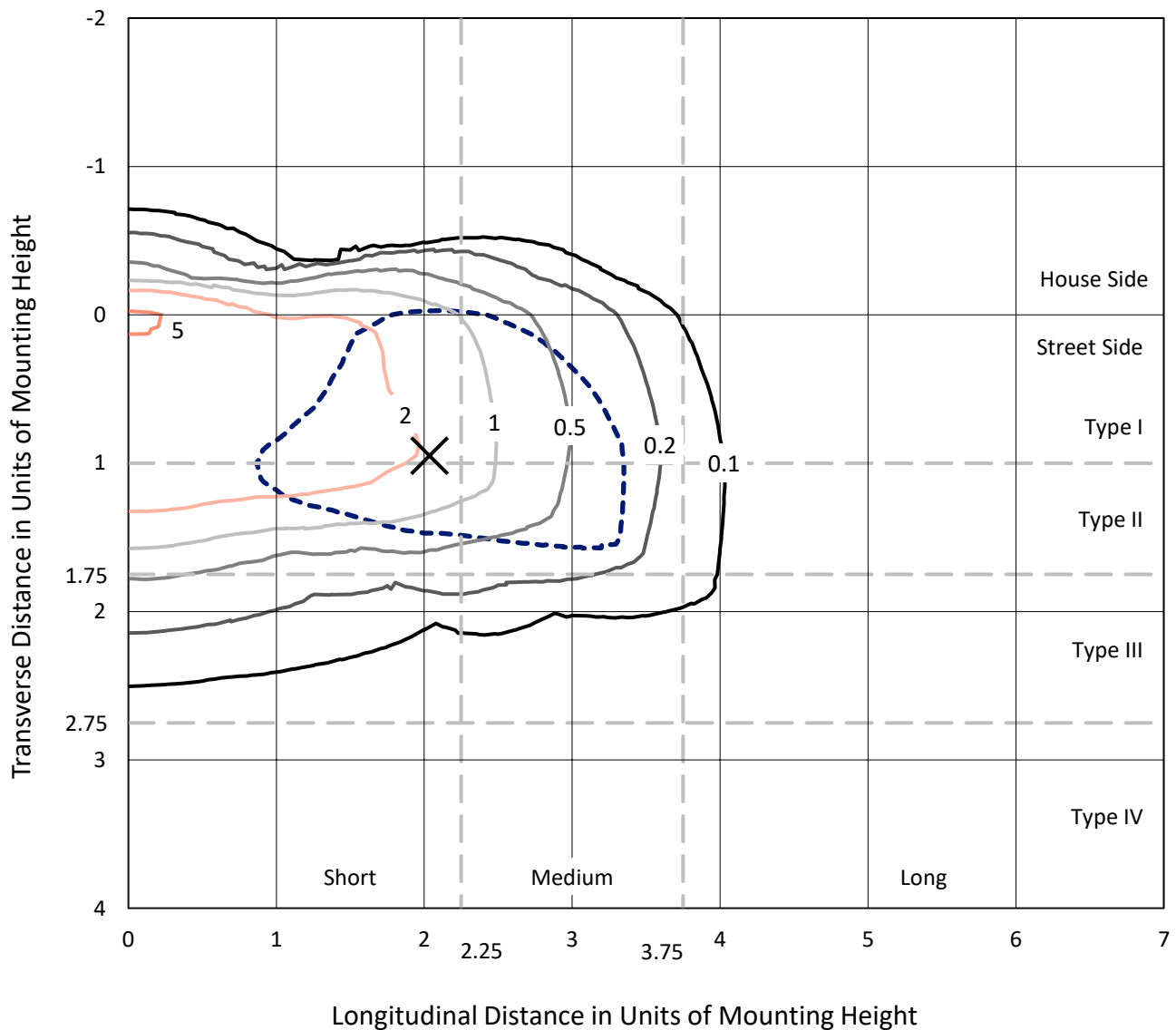


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Iso-Footcandle Lines of Horizontal Illumination

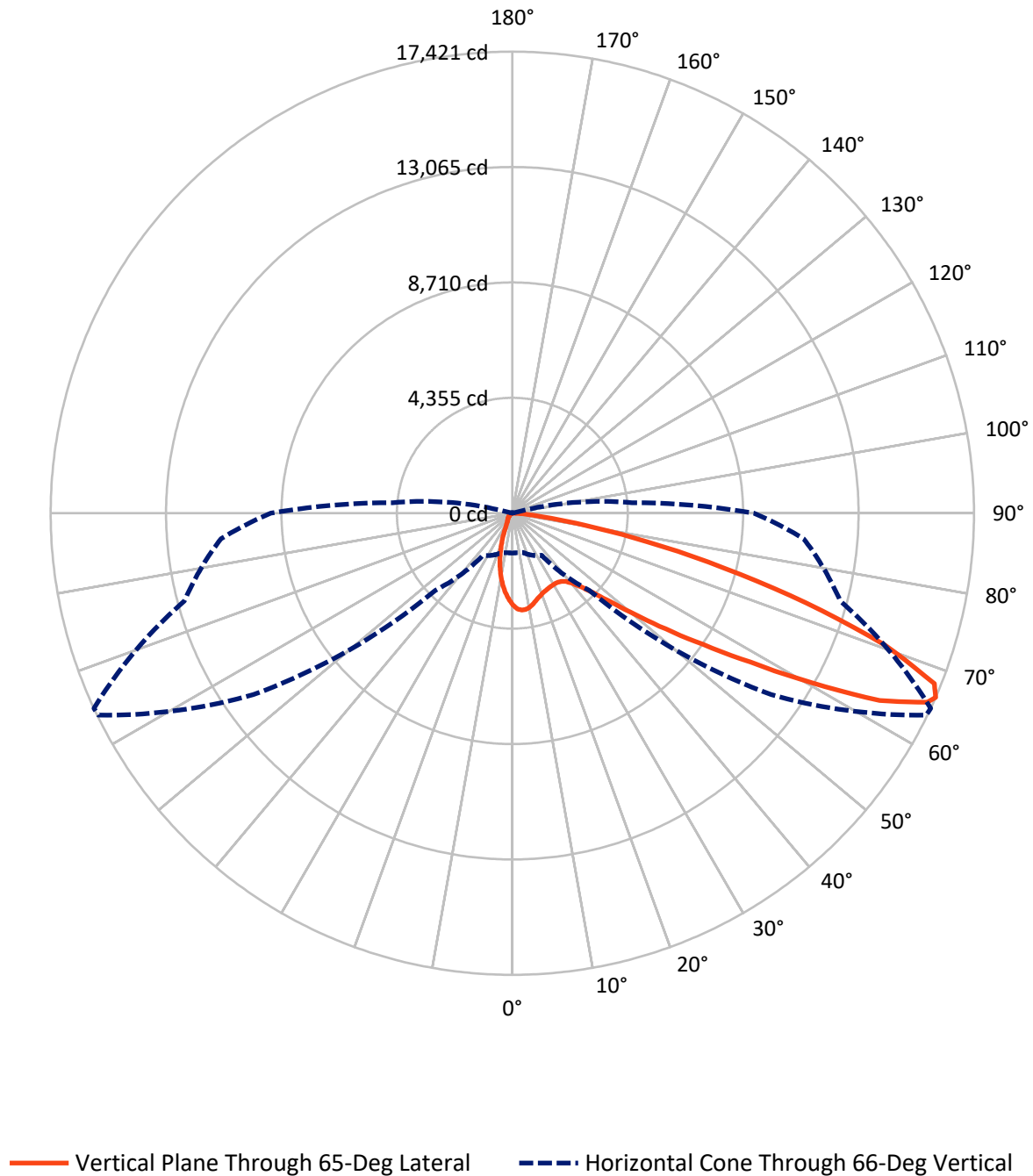
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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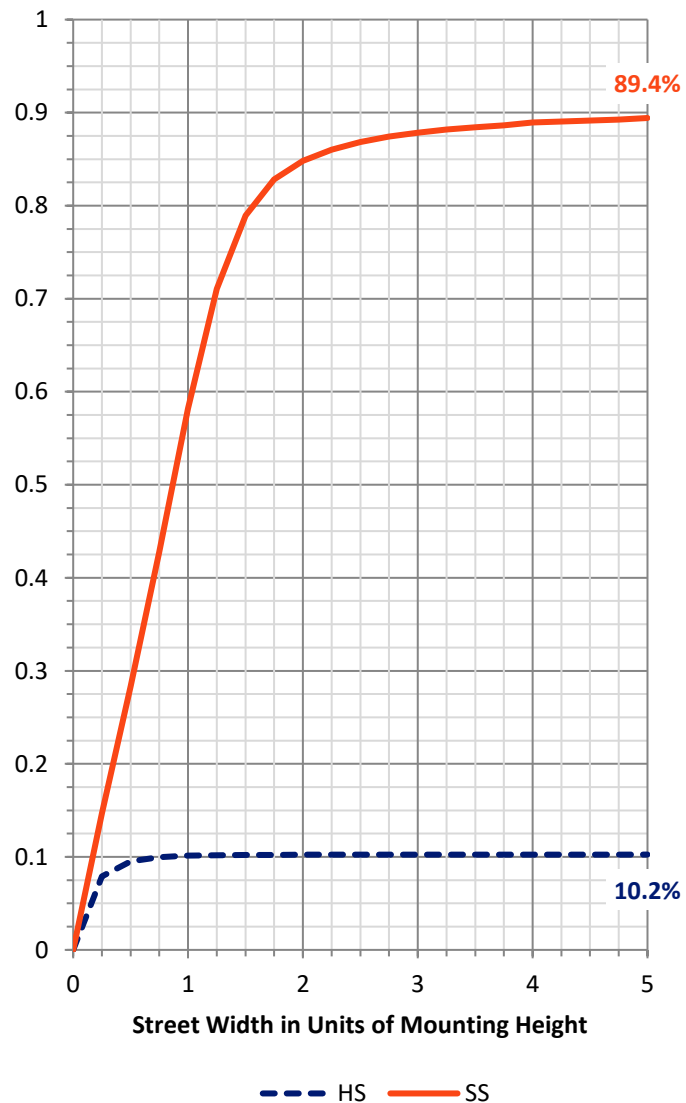
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1513.9	0.0	1513.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	13125.1	0.0	13125.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	14639.0	0.0	14639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	1.9
10°-20°	618.6	4.2
20°-30°	886.1	6.1
30°-40°	1294.3	8.8
40°-50°	2170.3	14.8
50°-60°	3621.9	24.7
60°-70°	3844.5	26.3
70°-80°	1741.2	11.9
80°-90°	178.2	1.2
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°	14639.0	100.0
0°-180°	14639.0	100.0

Coefficient of Utilization



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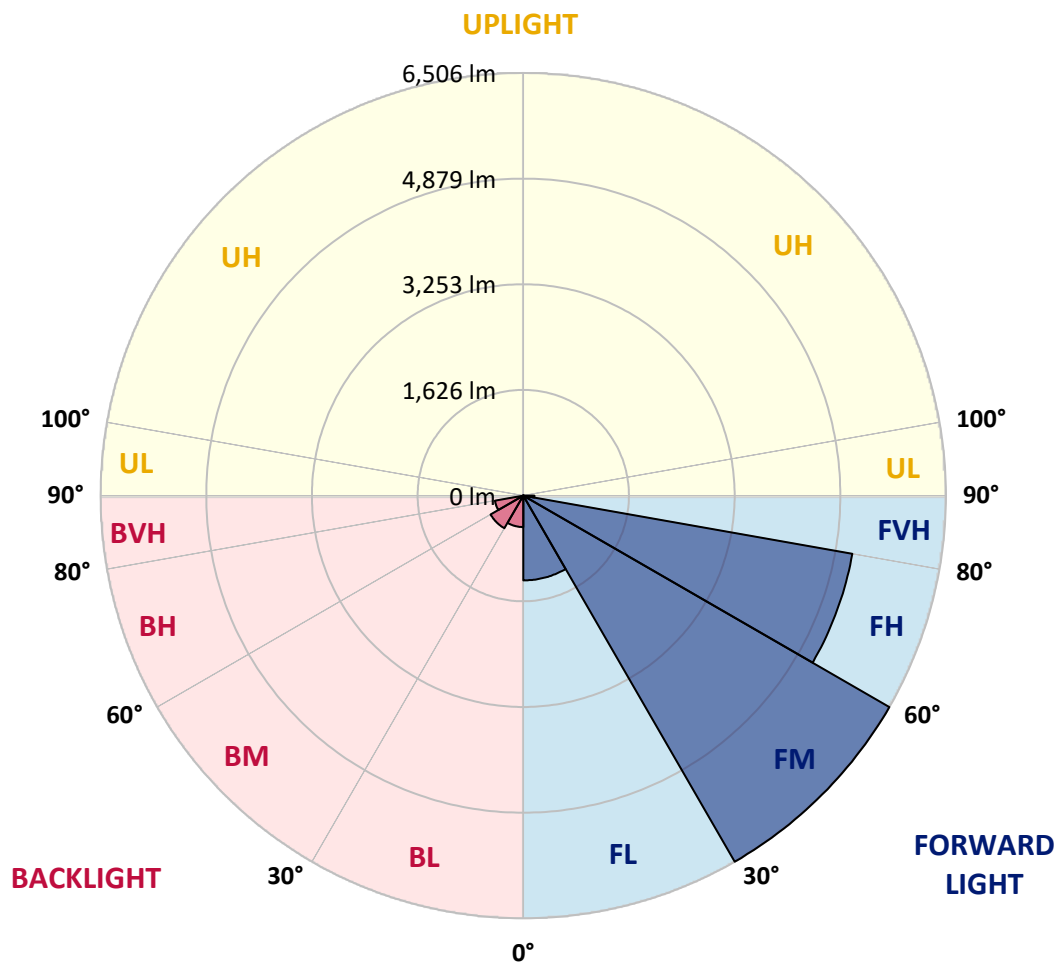
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1304.4	8.9			
FM	(30°-60°)	6505.9	44.4			
FH	(60°-80°)	5142.3	35.1			G3/7500
FVH	(80°-90°)	172.5	1.2			G2/225
BL	(0°-30°)	484.3	3.3	B1/500		
BM	(30°-60°)	580.6	4.0	B1/1000		
BH	(60°-80°)	443.4	3.0	B1/500		G1/500
BVH	(80°-90°)	5.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4
2.5°	3658.3	3662.3	3667.2	3674.1	3679.1	3664.3	3643.5	3619.8	3614.8	3564.4	3503.1
5°	3462.5	3468.5	3512.0	3535.7	3589.1	3637.6	3668.2	3672.2	3670.2	3622.7	3524.8
7.5°	3183.7	3200.5	3243.0	3284.6	3384.4	3476.4	3585.2	3661.3	3666.2	3653.4	3531.8
10°	2957.3	2968.2	2989.9	3072.0	3155.1	3295.5	3447.7	3591.1	3602.9	3654.4	3525.8
12.5°	2780.3	2796.1	2822.8	2886.1	2986.0	3118.5	3291.5	3484.3	3509.0	3635.6	3509.0
15°	2656.7	2664.6	2691.3	2753.6	2850.5	2973.1	3148.1	3372.6	3394.3	3610.9	3506.1
17.5°	2598.4	2607.3	2626.1	2675.5	2755.6	2869.3	3040.4	3282.6	3310.3	3595.0	3516.9
20°	2614.2	2622.1	2623.1	2648.8	2703.2	2799.1	2961.3	3198.6	3234.2	3585.2	3534.7
22.5°	2704.2	2705.2	2693.3	2681.4	2700.2	2769.4	2912.8	3145.2	3181.7	3583.2	3555.5
25°	2838.7	2841.6	2821.8	2780.3	2742.7	2778.3	2901.9	3110.6	3143.2	3578.2	3568.3
27.5°	3024.5	3023.6	3017.6	2948.4	2841.6	2817.9	2910.8	3091.8	3119.5	3564.4	3573.3
30°	3284.6	3276.7	3263.8	3185.7	3022.6	2913.8	2948.4	3079.9	3105.6	3544.6	3560.4
32.5°	3540.7	3570.3	3568.3	3494.2	3290.5	3084.9	3026.5	3095.7	3114.5	3531.8	3541.6
35°	3839.3	3838.3	3914.4	3886.7	3648.4	3303.4	3160.0	3148.1	3163.0	3540.7	3532.7
37.5°	4116.1	4141.8	4260.5	4289.1	4071.6	3611.8	3348.8	3260.8	3265.8	3601.0	3554.5
40°	4461.2	4510.6	4687.6	4783.5	4591.7	4069.6	3627.7	3467.5	3468.5	3749.3	3636.6
42.5°	4906.1	4984.2	5149.3	5309.5	5206.7	4611.5	4045.9	3794.8	3792.8	4010.3	3824.4
45°	5446.9	5501.3	5689.2	5943.3	5878.0	5367.8	4655.0	4302.0	4276.3	4438.4	4157.6
47.5°	5913.6	5987.8	6178.6	6468.3	6764.9	6291.3	5382.7	4999.0	4982.2	5119.7	4729.1
50°	6117.3	6182.6	6383.3	6789.6	7508.4	7503.5	6466.3	6016.4	5987.8	6061.9	5613.0
52.5°	5893.8	5955.1	6157.8	6664.1	7858.5	8980.7	8036.4	7292.9	7258.3	7163.4	6669.0
55°	5128.6	5179.0	5478.6	6060.0	7724.0	9965.5	10199.8	8869.9	8735.5	8366.7	7864.4
57.5°	4083.5	4057.8	4243.6	4919.0	6935.0	10295.7	12420.5	10834.6	10594.3	9406.8	8875.9
60°	2829.8	2908.9	2984.0	3428.9	5214.6	9723.2	13801.7	13304.4	12988.0	10430.2	9844.8
62.5°	2080.3	2132.7	2182.1	2387.8	3278.6	7763.5	14046.0	15841.5	15560.7	11516.8	10769.3
65°	1645.3	1649.2	1669.0	1871.7	2160.4	5048.5	12872.3	17272.2	17200.0	12562.9	11144.0
66°	1498.9	1499.9	1530.6	1748.1	1938.9	4111.2	11932.0	17381.0	17420.5	12814.0	11034.3
67.5°	1310.1	1306.1	1350.6	1571.1	1765.9	2964.2	10249.2	16940.0	17174.3	13006.8	10639.8
70°	1015.4	1010.5	1064.9	1318.0	1626.5	1977.5	6812.4	14545.3	14923.0	12612.3	9413.7
72.5°	676.3	680.2	773.2	1040.1	1552.3	1741.2	4098.3	11064.9	11598.8	10415.3	7405.6
75°	394.5	401.4	507.2	773.2	1347.6	1660.1	2319.6	7890.1	8231.2	7192.1	4613.4
77.5°	206.6	209.6	283.8	510.2	1033.2	1541.4	1545.4	5040.6	5200.7	3495.2	1826.2
80°	109.7	106.8	152.3	307.5	710.9	1353.6	1253.7	2668.6	2774.4	1038.2	461.7
82.5°	41.5	45.5	81.1	201.7	420.2	971.9	1079.7	1179.6	1143.0	228.4	193.8
85°	7.9	9.9	34.6	119.6	211.6	406.4	795.9	578.4	535.9	86.0	111.7
87.5°	1.0	2.0	9.9	28.7	30.7	137.4	235.3	160.2	138.4	31.6	46.5
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°	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4
2.5°	3473.4	3446.7	3357.7	3269.7	3179.8	3098.7	3043.3	2953.3	2930.6	2898.0	2879.2
5°	3466.5	3404.2	3233.2	3046.3	2872.3	2684.4	2541.0	2402.6	2328.5	2290.9	2277.1
7.5°	3446.7	3347.9	3080.9	2788.2	2509.4	2228.6	1984.4	1798.5	1678.9	1596.8	1541.4
10°	3407.2	3270.7	2903.9	2501.5	2080.3	1709.5	1400.0	1164.7	982.8	925.5	927.4
12.5°	3366.6	3184.7	2706.2	2183.1	1661.1	1193.4	865.1	679.3	592.3	563.6	557.6
15°	3329.1	3102.6	2512.4	1874.6	1236.9	773.2	557.6	492.4	468.7	463.7	462.7
17.5°	3309.3	3026.5	2305.7	1521.7	863.2	525.0	446.9	429.1	422.2	417.2	415.3
20°	3292.5	2960.3	2108.0	1191.4	590.3	430.1	400.4	383.6	371.8	366.8	363.9
22.5°	3280.6	2892.0	1903.3	922.5	451.9	381.7	355.0	333.2	316.4	310.5	306.5
25°	3262.8	2816.9	1696.7	674.3	380.7	339.1	308.5	282.8	261.0	250.1	248.2
27.5°	3237.1	2731.9	1470.2	499.3	340.1	301.6	264.0	232.4	210.6	198.7	199.7
30°	3195.6	2642.9	1243.8	396.5	307.5	263.0	222.5	191.8	171.1	162.2	161.2
32.5°	3146.2	2535.1	1036.2	340.1	277.8	228.4	185.9	159.2	143.4	136.4	135.5
35°	3099.7	2426.4	824.6	305.5	247.2	196.8	156.2	133.5	121.6	115.7	116.7
37.5°	3074.0	2329.5	642.7	277.8	222.5	169.1	134.5	114.7	103.8	98.9	97.9
40°	3090.8	2250.4	511.2	253.1	194.8	145.3	115.7	98.9	88.0	81.1	81.1
42.5°	3169.9	2215.8	412.3	229.4	169.1	125.6	100.9	85.0	73.2	66.2	67.2
45°	3411.1	2252.3	345.1	207.6	145.3	108.8	87.0	70.2	59.3	54.4	53.4
47.5°	3811.6	2389.8	298.6	184.9	124.6	92.9	73.2	58.3	47.5	43.5	42.5
50°	4511.6	2673.5	264.0	162.2	105.8	79.1	60.3	46.5	37.6	33.6	33.6
52.5°	5474.6	3292.5	239.3	136.4	89.0	67.2	49.4	37.6	29.7	26.7	25.7
55°	6481.2	3945.1	226.4	114.7	74.2	55.4	39.5	29.7	22.7	19.8	18.8
57.5°	7449.1	4457.2	211.6	92.9	59.3	42.5	30.7	22.7	15.8	13.8	12.9
60°	8377.5	4871.5	179.9	74.2	46.5	30.7	22.7	15.8	10.9	8.9	8.9
62.5°	9208.1	5112.7	141.4	59.3	35.6	21.8	14.8	11.9	7.9	5.9	5.9
65°	9305.0	4799.3	106.8	45.5	25.7	13.8	8.9	8.9	5.9	4.0	4.0
66°	9110.2	4533.3	93.9	41.5	22.7	11.9	7.9	6.9	4.9	3.0	3.0
67.5°	8675.2	4079.5	81.1	35.6	18.8	8.9	5.9	5.9	4.0	2.0	2.0
70°	7495.6	3332.0	64.3	26.7	13.8	6.9	4.0	4.0	3.0	2.0	2.0
72.5°	5712.9	2487.7	52.4	19.8	9.9	4.9	3.0	3.0	3.0	2.0	2.0
75°	3445.7	1339.7	40.5	14.8	8.9	4.0	2.0	3.0	4.0	3.0	2.0
77.5°	1269.5	455.8	31.6	11.9	6.9	4.0	2.0	2.0	4.0	3.0	3.0
80°	311.5	118.6	22.7	9.9	6.9	4.0	2.0	2.0	4.0	4.0	4.0
82.5°	144.4	50.4	15.8	8.9	6.9	4.0	2.0	2.0	3.0	4.0	4.0
85°	83.1	23.7	12.9	9.9	6.9	4.0	2.0	2.0	3.0	4.0	4.0
87.5°	33.6	11.9	11.9	9.9	7.9	4.9	2.0	2.0	2.0	3.0	3.0
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)