

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: P648618

Luminaire Tested: **GALN-SA8B-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26413.7 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

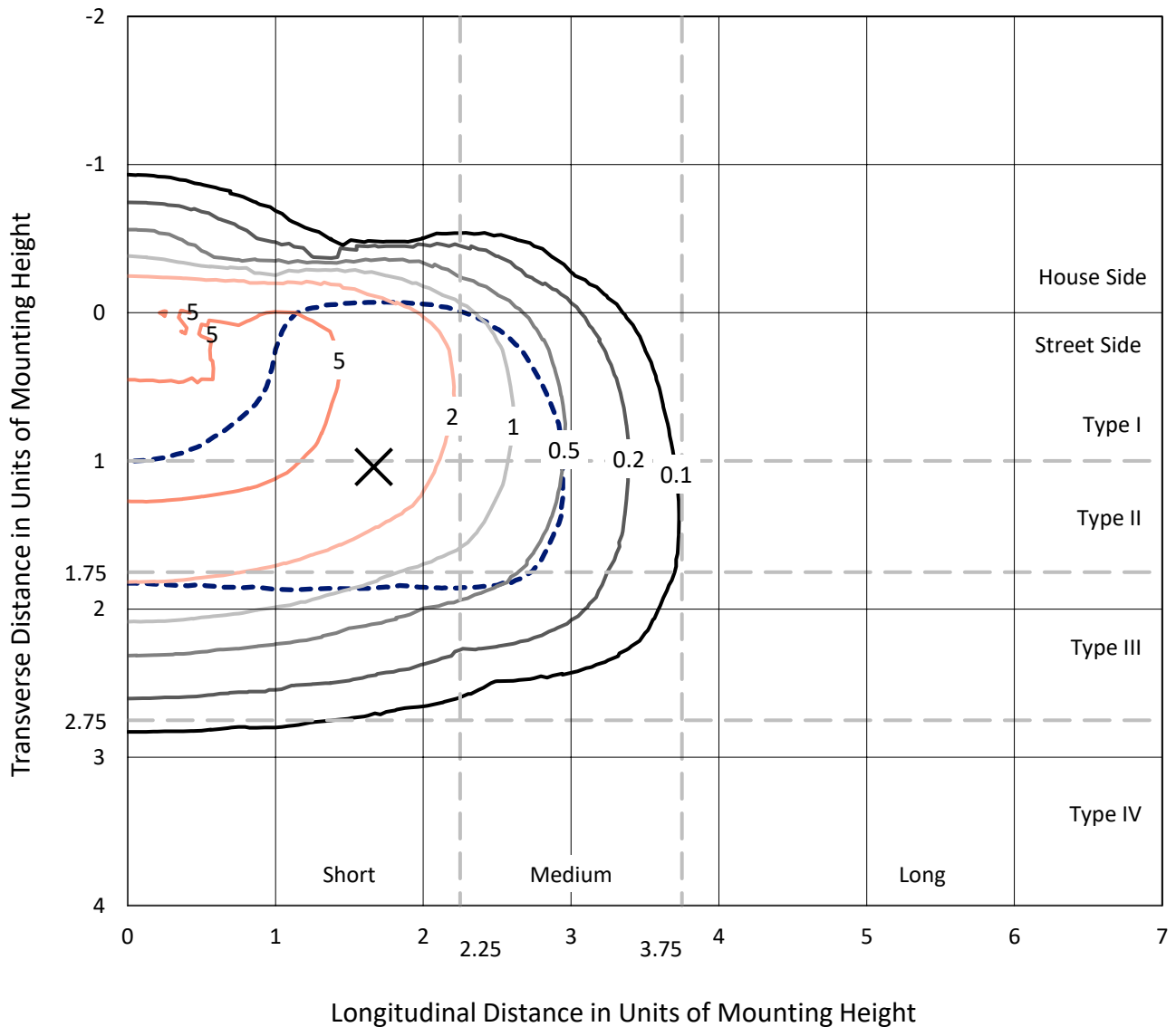
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA8B-835-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

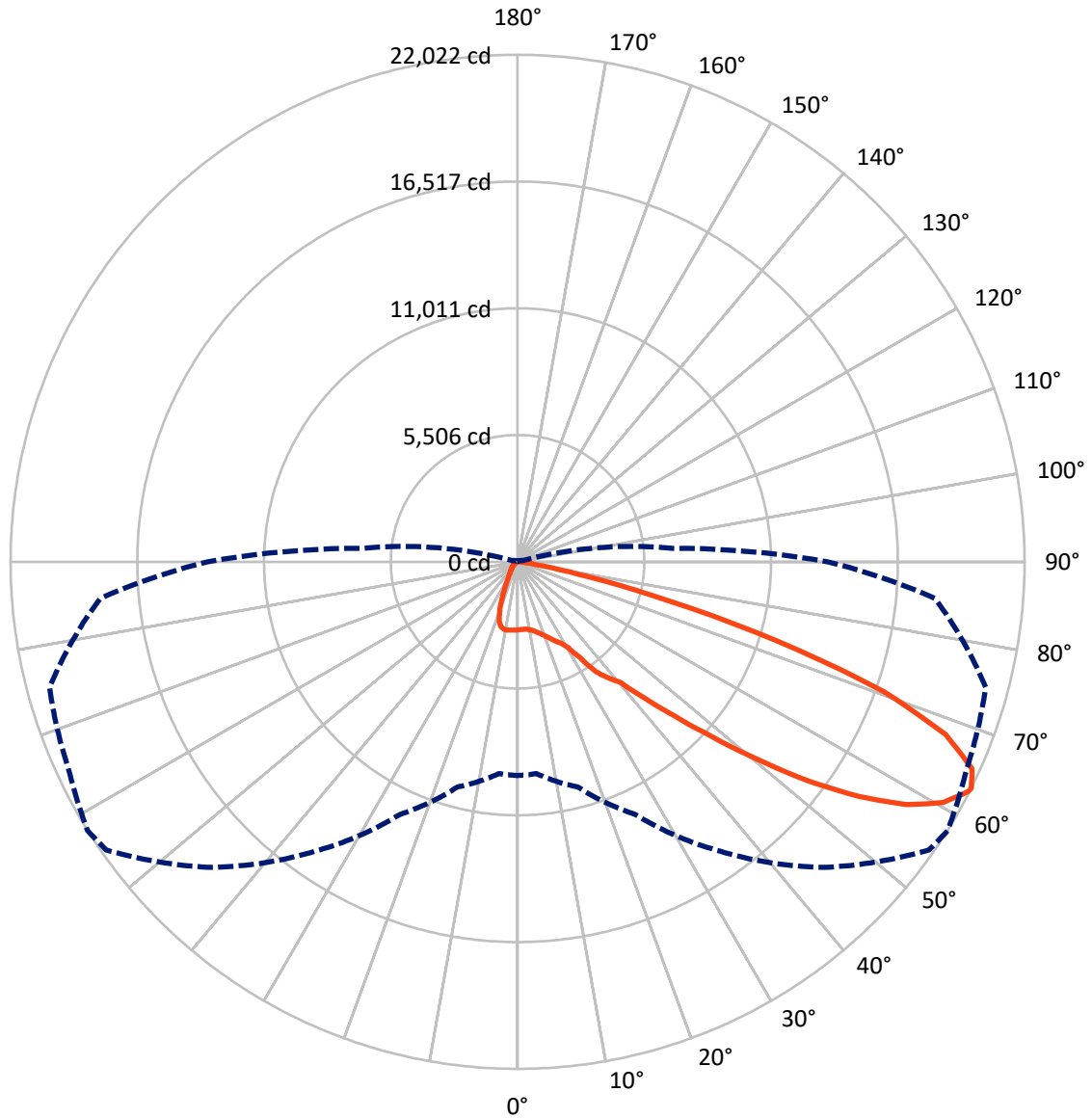
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

REPORT NUMBER: P648618
CATALOG NUMBER: GALN-SA8B-835-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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 CATALOG NUMBER: GALN-SA8B-835-U-T3-HSS

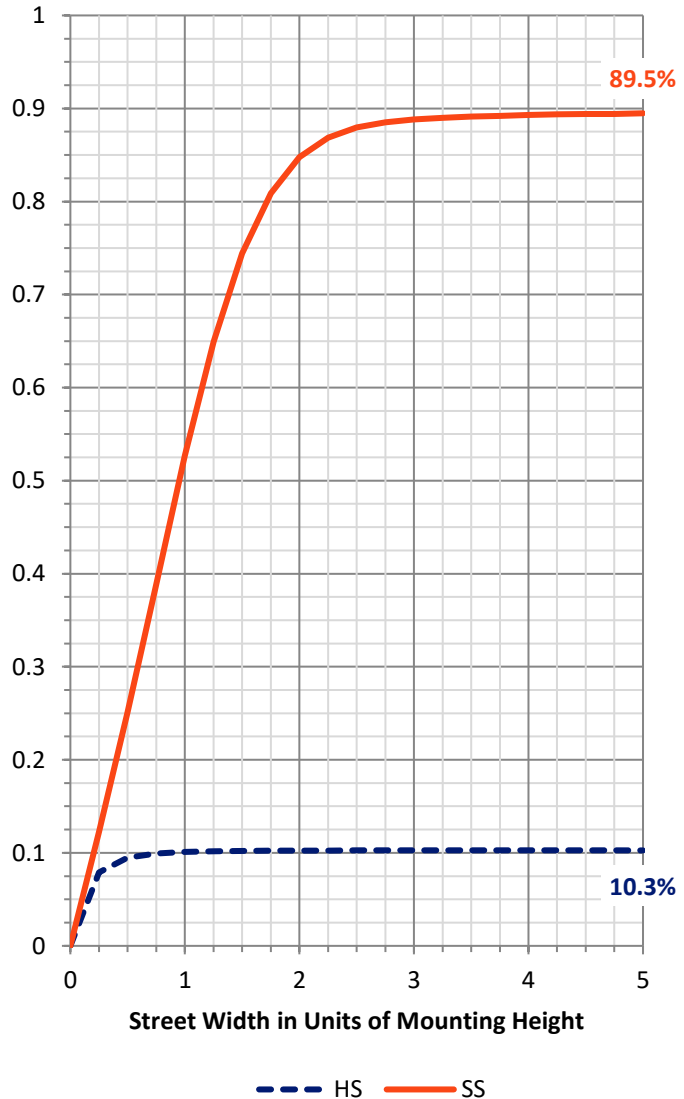
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2735.0	0.0	2735.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23678.8	0.0	23678.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	26413.7	0.0	26413.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	1.0
10°-20°	754.0	2.9
20°-30°	1308.6	5.0
30°-40°	2404.6	9.1
40°-50°	4526.7	17.1
50°-60°	7742.5	29.3
60°-70°	7413.5	28.1
70°-80°	1890.5	7.2
80°-90°	96.7	0.4
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°	26413.7	100.0
0°-180°	26413.7	100.0

Coefficient of Utilization



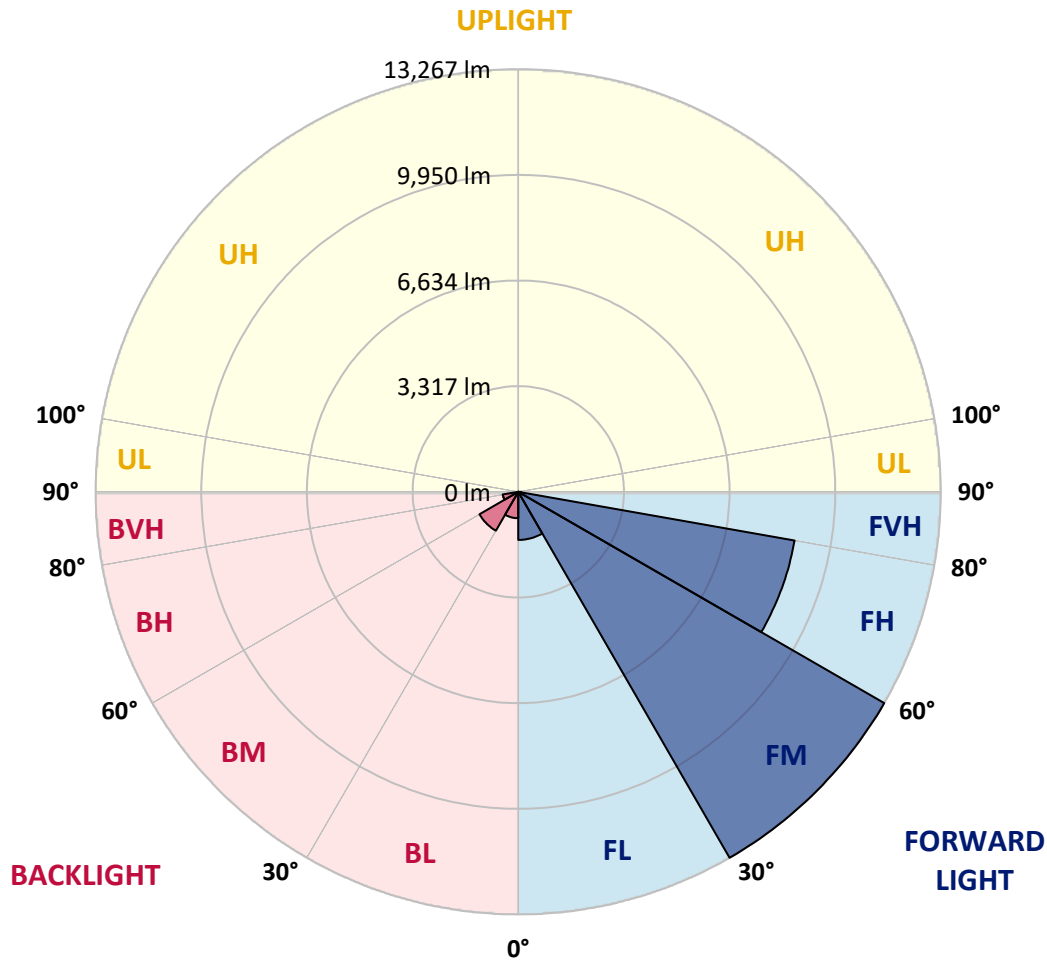
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 CATALOG NUMBER: GALN-SA8B-835-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.9	5.7			
FM (30°-60°)	13267.1	50.2			
FH (60°-80°)	8808.8	33.3			G4/12000
FVH (80°-90°)	92.9	0.4			G1/100
BL (0°-30°)	829.4	3.1	B2/1000		
BM (30°-60°)	1406.7	5.3	B2/2500		
BH (60°-80°)	495.1	1.9	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2
2.5°	2883.6	2893.5	2903.4	2907.4	2921.3	2935.2	2945.2	2943.2	2959.1	2967.1	2967.1
5°	2768.2	2768.2	2794.1	2817.9	2857.7	2897.5	2935.2	2943.2	2973.1	3000.8	3010.8
7.5°	2670.7	2676.7	2696.6	2740.3	2794.1	2863.7	2939.2	2957.2	3008.8	3070.5	3096.3
10°	2625.0	2629.0	2654.8	2700.6	2768.2	2863.7	2969.1	3002.9	3082.4	3179.8	3215.6
12.5°	2615.1	2621.0	2646.9	2698.6	2776.1	2891.5	3034.7	3070.5	3185.8	3311.1	3364.8
15°	2633.0	2636.9	2662.8	2718.5	2804.0	2941.2	3122.2	3171.9	3309.1	3454.3	3523.9
17.5°	2696.6	2692.7	2710.5	2756.2	2851.7	3002.9	3227.6	3287.3	3448.3	3647.2	3692.9
20°	2967.1	2941.2	2925.3	2885.5	2923.3	3090.3	3354.8	3442.4	3641.2	3844.1	3875.8
22.5°	3549.7	3492.1	3378.7	3223.6	3104.3	3209.7	3508.0	3609.4	3865.9	4064.8	4064.8
25°	4291.5	4217.9	4104.6	3766.5	3474.2	3406.5	3681.0	3808.3	4110.5	4311.4	4245.7
27.5°	5220.2	5162.6	4941.8	4548.1	4100.6	3750.6	3881.8	3999.2	4327.3	4569.9	4432.7
30°	5975.9	5948.1	5767.1	5415.1	4921.9	4410.8	4255.7	4333.3	4615.6	4896.0	4754.8
32.5°	6614.2	6614.2	6429.3	6101.1	5639.8	5186.4	4890.1	4945.7	5216.2	5540.4	5277.9
35°	7316.2	7292.4	7143.2	6831.0	6314.0	5914.2	5792.9	5868.5	6113.1	6353.7	5707.4
37.5°	8054.0	8046.0	7890.9	7588.7	7167.1	6664.0	6379.6	6399.5	6524.7	6671.9	6210.5
40°	8855.4	8867.4	8664.5	8477.6	8079.9	7564.8	7019.9	6894.6	7012.0	7427.6	7139.2
42.5°	9802.1	9774.2	9686.7	9432.2	9112.0	8803.7	8149.5	8103.7	8207.2	8652.6	8340.4
45°	10901.8	10941.6	10790.4	10649.2	10434.4	10177.9	9631.1	9551.5	9664.8	10356.9	9913.4
47.5°	12003.5	11965.7	12063.1	12037.3	12152.6	11961.7	11478.5	11315.4	11587.9	12244.1	11591.8
50°	12842.7	12884.4	13087.3	13383.6	13878.8	13986.2	13522.8	13467.1	13588.4	14010.0	13093.2
52.5°	13387.6	13526.8	13844.9	14606.6	15499.5	16193.5	15841.6	15811.7	15762.0	15875.4	14529.0
55°	13743.5	13884.7	14300.4	15422.0	16959.2	18086.8	18104.7	17977.4	17649.2	17567.7	15871.4
57.5°	13524.8	13552.6	14145.2	15644.7	17768.5	19437.0	20021.7	19894.5	19287.9	18979.7	17056.6
60°	12156.6	12214.3	13039.5	14801.5	17416.6	19878.5	21292.4	21234.8	20570.6	20222.5	17979.3
62.5°	9732.5	9899.5	10748.6	12713.4	15779.9	19134.8	21807.5	21970.6	21453.5	20974.3	18269.7
63°	9287.0	9233.3	10130.1	12104.9	15346.4	18766.9	21815.5	22022.3	21493.3	21045.9	18190.2
65°	6874.7	7035.8	7618.5	9545.5	12771.1	17054.6	21324.3	21690.2	21346.1	20729.7	17309.2
67.5°	3860.0	3852.0	4496.3	6246.3	8939.0	13377.6	19281.9	20055.5	19983.9	18601.8	14348.1
70°	1889.2	1919.1	2183.6	3237.5	5184.4	9229.3	16022.5	16857.8	16883.6	14610.6	9921.4
72.5°	855.1	869.1	1058.0	1577.0	2664.8	4914.0	11041.0	11838.4	11691.3	9310.8	5478.7
75°	451.4	481.2	582.7	793.5	1284.7	2026.4	6005.7	6777.3	6469.1	4253.7	2016.5
77.5°	334.1	344.1	395.7	505.1	688.1	789.5	2591.2	3082.4	2887.5	1539.2	668.2
80°	244.6	252.6	294.3	358.0	433.5	401.7	976.4	1119.6	1004.3	523.0	204.8
82.5°	149.2	151.1	214.8	266.5	272.4	224.7	322.1	346.0	361.9	294.3	111.3
85°	53.7	67.7	145.2	192.9	161.1	113.4	135.2	149.2	163.1	186.9	65.6
87.5°	6.0	8.0	69.6	93.5	45.7	41.7	49.7	55.7	59.7	69.6	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648618
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2	2957.2
2.5°	2975.0	2983.0	2977.0	2967.1	2965.1	2959.1	2947.2	2947.2	2947.2	2951.1	2947.2
5°	3018.8	3024.7	3010.8	2990.9	2969.1	2941.2	2911.4	2893.5	2891.5	2887.5	2877.6
7.5°	3102.3	3110.2	3078.4	3030.7	2971.0	2903.4	2839.8	2780.1	2752.3	2730.4	2730.4
10°	3223.6	3231.5	3167.9	3082.4	2963.1	2825.8	2674.7	2537.5	2430.1	2380.4	2368.5
12.5°	3368.8	3372.8	3267.4	3118.2	2921.3	2656.8	2334.7	2034.4	1825.6	1730.1	1720.2
15°	3527.9	3500.0	3360.8	3132.2	2802.0	2308.8	1752.0	1384.1	1167.4	1103.7	1127.6
17.5°	3688.9	3637.3	3432.4	3110.2	2533.6	1752.0	1177.2	944.6	877.0	859.1	859.1
20°	3840.1	3768.5	3484.1	3014.8	2068.2	1207.1	873.0	817.3	805.4	793.5	795.4
22.5°	3991.2	3881.8	3529.8	2802.0	1541.2	863.1	781.5	763.7	747.8	731.8	729.8
25°	4138.4	3987.3	3547.8	2408.3	1050.0	741.7	713.9	690.1	658.3	640.3	636.3
27.5°	4291.5	4114.5	3535.8	1911.1	765.6	664.2	636.3	602.6	564.8	533.0	533.0
30°	4585.8	4357.2	3494.1	1374.2	644.3	584.7	548.9	495.2	453.4	421.6	419.6
32.5°	4987.6	4673.3	3350.8	966.5	572.8	515.1	461.3	401.7	358.0	334.1	334.1
35°	5345.5	4991.5	3082.4	711.9	515.1	447.5	381.8	324.2	290.3	274.4	268.5
37.5°	5890.4	5456.9	2712.5	578.7	459.4	387.8	320.2	266.5	238.7	226.7	226.7
40°	6707.7	6025.6	2259.1	507.1	405.7	330.1	266.5	224.7	202.9	188.9	188.9
42.5°	7721.9	6721.7	1799.7	455.4	356.0	284.4	222.8	190.9	171.0	161.1	159.1
45°	8998.6	7455.4	1386.1	407.7	316.2	242.7	188.9	161.1	141.2	135.2	137.2
47.5°	10331.1	8101.8	1073.9	365.9	274.4	204.8	161.1	139.2	125.3	117.3	117.3
50°	11468.5	8547.2	815.3	318.2	242.7	173.0	141.2	125.3	113.4	109.4	107.3
52.5°	12419.1	8676.5	624.4	276.4	212.8	149.2	125.3	113.4	103.4	97.4	97.4
55°	13228.5	8563.1	489.2	232.7	179.0	129.3	111.3	101.4	89.5	83.5	81.5
57.5°	13701.8	8199.2	373.9	192.9	145.2	107.3	97.4	85.5	71.6	61.6	61.6
60°	13940.5	7670.2	286.3	159.1	111.3	85.5	79.6	63.7	49.7	41.7	39.8
62.5°	13654.0	6968.2	216.7	125.3	83.5	63.7	53.7	45.7	31.8	23.9	23.9
63°	13477.1	6765.4	208.8	119.3	77.6	59.7	49.7	41.7	27.9	21.8	19.9
65°	12285.9	5880.4	171.0	95.4	61.6	41.7	33.8	29.8	19.9	9.9	8.0
67.5°	9756.3	4498.3	135.2	71.6	43.8	29.8	19.9	17.9	6.0	0.0	0.0
70°	6596.3	2905.4	105.4	51.7	29.8	17.9	9.9	8.0	2.0	0.0	0.0
72.5°	3440.3	1489.5	81.5	37.8	17.9	11.9	6.0	2.0	0.0	0.0	0.0
75°	1217.0	507.1	59.7	23.9	11.9	6.0	2.0	0.0	0.0	0.0	0.0
77.5°	367.9	188.9	37.8	17.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	129.3	69.6	21.8	11.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	63.7	33.8	13.9	9.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	35.8	21.8	11.9	9.9	6.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.8	15.9	11.9	9.9	8.0	4.0	2.0	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

(END OF REPORT)