

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: P647886

Luminaire Tested: **GALN-SA4A-835-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10172.7 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

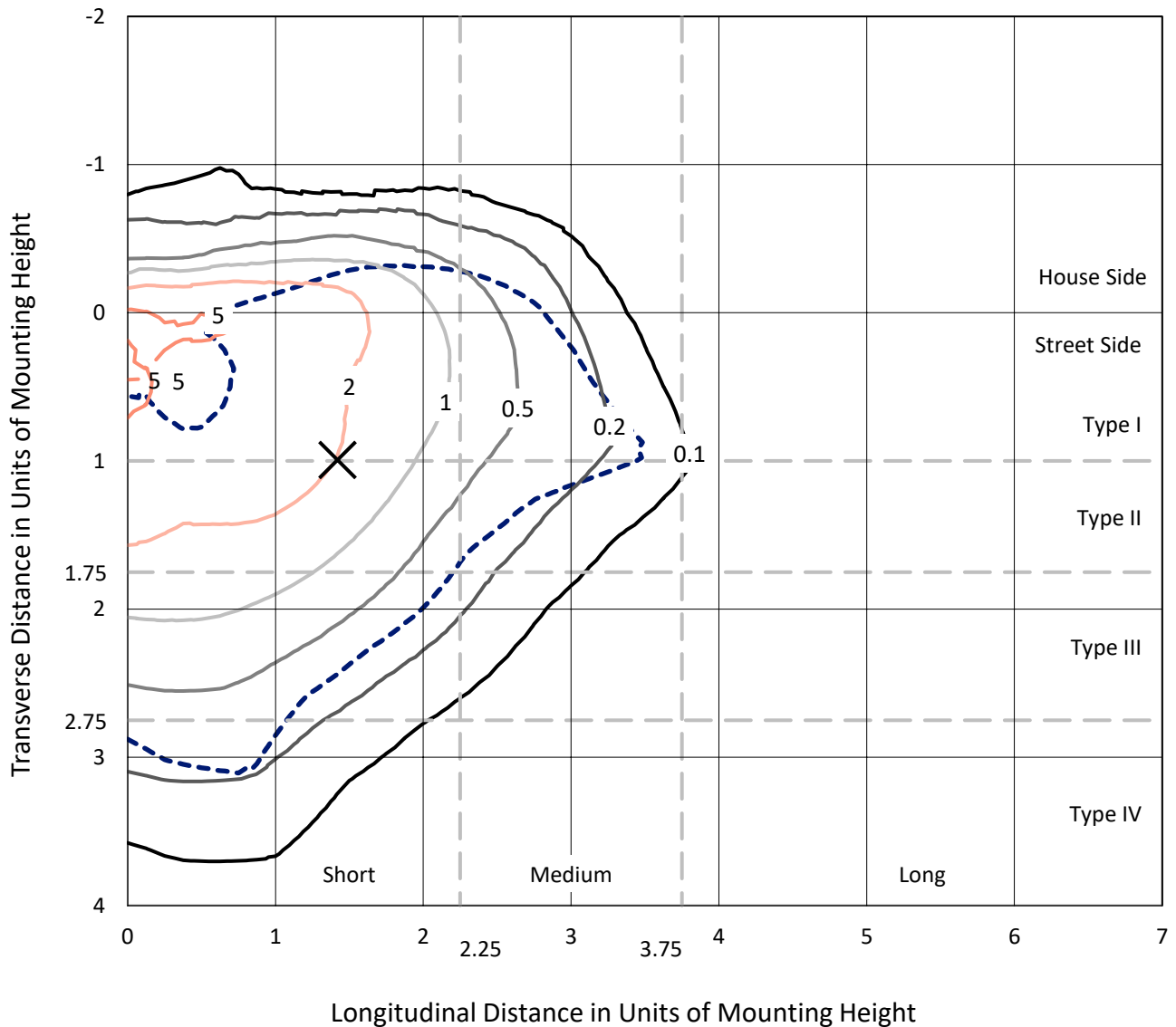
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

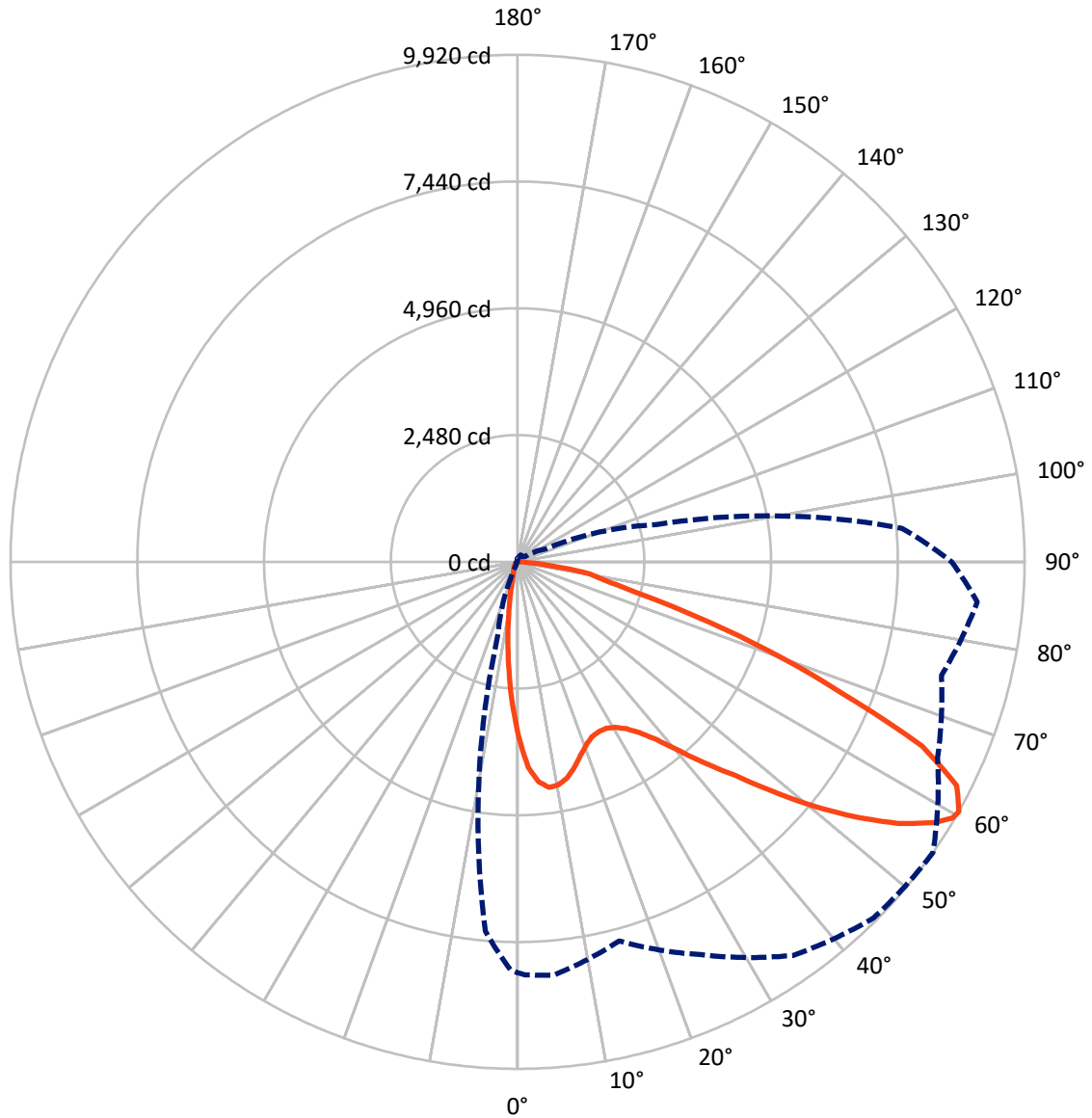
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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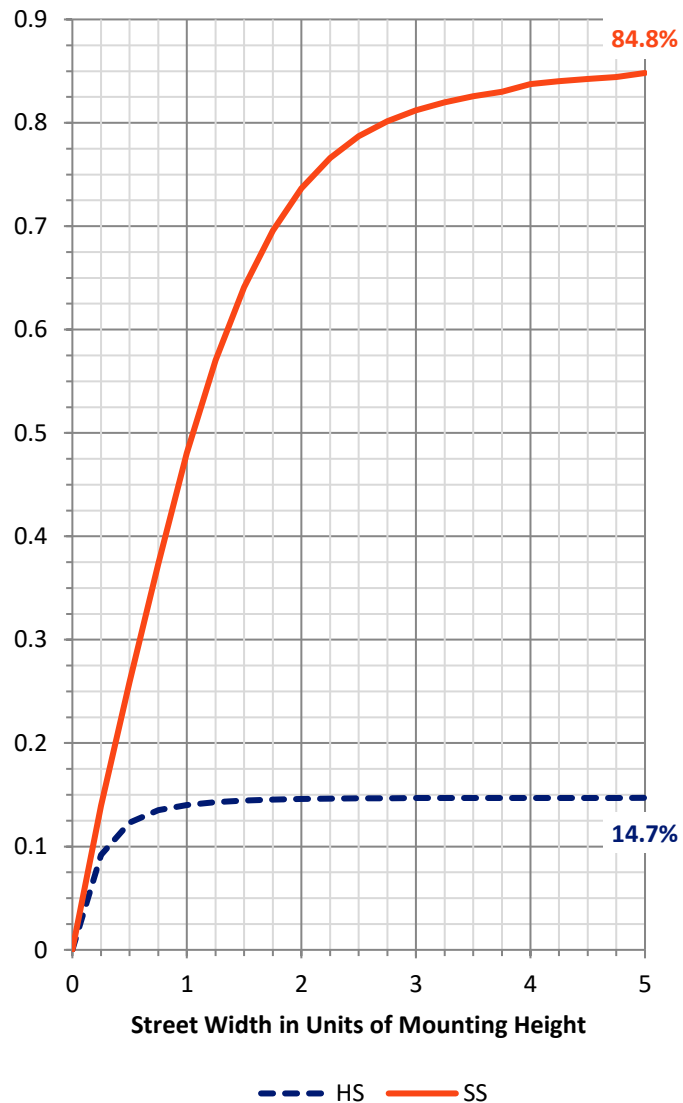
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1509.7	0.0	1509.7
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	8663.0	0.0	8663.0
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	10172.7	0.0	10172.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.1	2.5
10°-20°	502.3	4.9
20°-30°	743.5	7.3
30°-40°	1108.2	10.9
40°-50°	1623.0	16.0
50°-60°	2343.1	23.0
60°-70°	2464.8	24.2
70°-80°	1013.9	10.0
80°-90°	118.8	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°	10172.7	100.0
0°-180°	10172.7	100.0

**Coefficient of Utilization**

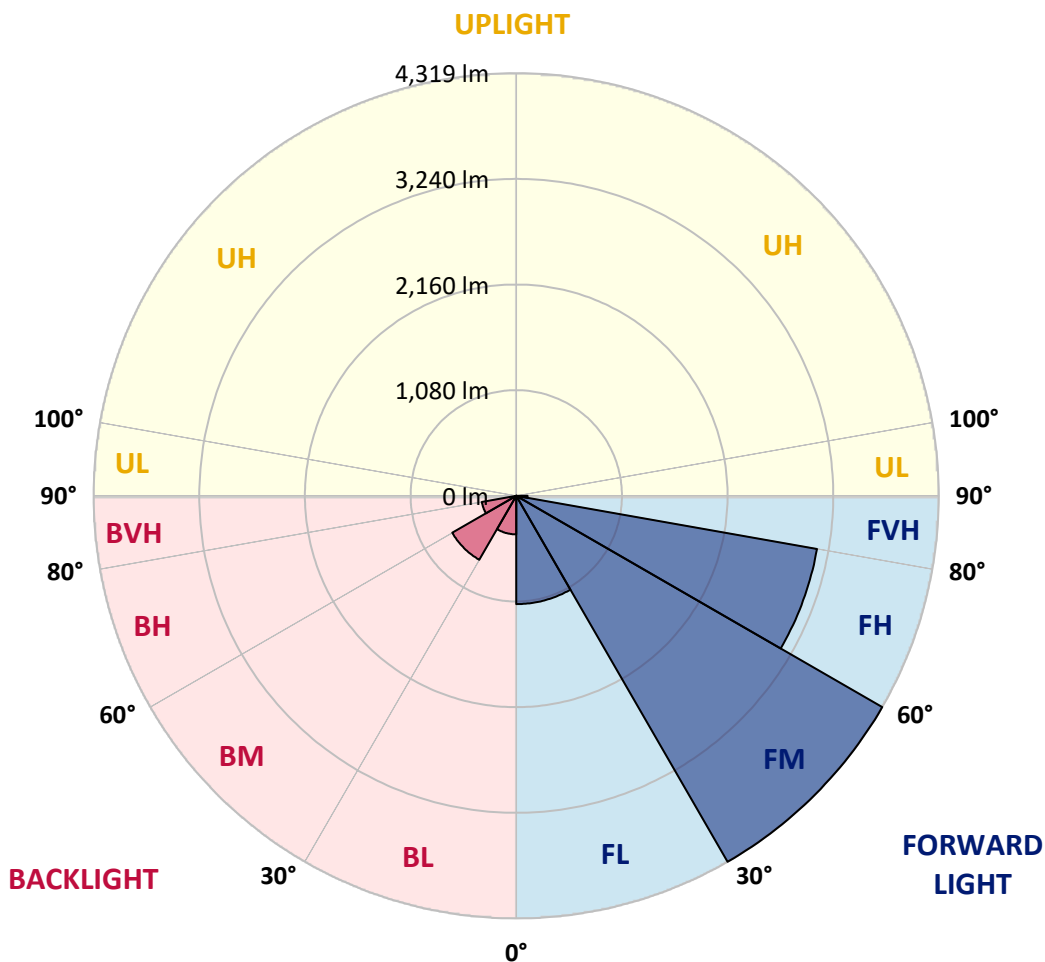


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.9	10.9			
FM (30°-60°)	4319.4	42.5			
FH (60°-80°)	3121.4	30.7			G2/5000
FVH (80°-90°)	115.3	1.1			G2/225
BL (0°-30°)	393.9	3.9	B1/500		
BM (30°-60°)	755.0	7.4	B1/1000		
BH (60°-80°)	357.3	3.5	B1/500		G1/500
BVH (80°-90°)	3.5	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-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5
2.5°	3763.2	3756.9	3812.5	3903.3	3994.9	4042.7	4033.3	4029.4	3953.4	3897.9	3781.2
5°	3755.3	3787.4	3886.9	4132.8	4319.1	4409.2	4435.8	4323.8	4175.8	3961.3	3696.6
7.5°	3530.6	3570.6	3732.6	4117.1	4448.3	4644.1	4637.0	4457.7	4152.3	3820.3	3442.9
10°	3251.9	3298.9	3489.1	3955.8	4385.7	4644.1	4658.1	4431.1	4051.3	3625.4	3228.4
12.5°	3055.3	3110.9	3321.6	3805.5	4224.4	4478.8	4495.3	4330.9	3975.4	3550.2	3111.6
15°	2988.7	3041.2	3255.0	3729.5	4052.9	4189.9	4186.0	4168.8	3945.6	3568.2	3118.0
17.5°	3103.0	3146.2	3387.3	3764.0	3892.4	3878.3	3898.6	3981.6	3951.9	3719.3	3315.3
20°	3398.3	3442.1	3701.3	3869.7	3769.4	3680.2	3689.6	3828.2	4009.8	4003.6	3623.8
22.5°	3804.7	3879.1	4114.0	4074.8	3753.0	3557.2	3537.7	3717.8	4108.5	4330.9	4040.4
25°	4319.1	4394.3	4577.5	4402.1	3833.6	3528.3	3510.3	3684.1	4228.3	4650.3	4509.4
27.5°	4751.3	4808.5	4990.9	4720.8	3952.7	3540.8	3511.1	3688.8	4325.4	4922.0	4904.8
30°	5097.4	5139.7	5247.0	4869.6	4055.2	3595.6	3561.2	3757.7	4368.4	5054.3	5225.0
32.5°	5376.2	5447.4	5481.1	5028.5	4202.4	3699.0	3640.2	3890.0	4473.4	5218.0	5560.9
35°	5694.8	5777.1	5734.0	5180.4	4396.6	3860.3	3788.2	4104.6	4632.3	5369.1	5950.9
37.5°	6098.9	6193.6	6025.3	5340.1	4601.8	4103.0	4069.3	4406.0	4873.5	5585.2	6369.0
40°	6517.0	6571.8	6307.9	5534.3	4853.9	4456.1	4488.2	4853.9	5189.0	5844.4	6813.7
42.5°	6843.5	6895.2	6598.4	5697.2	5111.5	4875.0	5008.9	5394.2	5550.8	6109.8	7145.7
45°	7093.3	7137.1	6799.7	5874.9	5459.2	5481.9	5734.8	5950.9	5913.3	6271.9	7401.8
47.5°	7287.5	7325.0	6954.7	6066.0	5979.8	6224.1	6610.9	6702.6	6289.1	6447.3	7633.5
50°	7367.3	7378.3	7003.2	6309.5	6571.0	7170.0	7573.3	7517.7	6719.8	6642.3	7880.2
52.5°	7471.5	7469.1	7141.8	6541.3	7126.9	8015.6	8418.1	8292.0	7206.8	6934.3	8157.4
55°	7744.7	7747.9	7438.6	6870.1	7600.7	8698.4	9129.1	9037.5	7720.5	7427.6	8480.8
57.5°	8076.7	8088.5	7860.6	7254.6	8053.2	9193.3	9660.0	9624.8	8415.0	7976.5	8786.1
59°	8119.8	8143.3	8060.3	7525.5	8321.8	9345.2	9841.7	9876.1	8786.9	8338.2	8951.3
60°	8041.5	8080.6	8118.2	7679.0	8479.2	9400.1	9852.6	9920.0	9066.4	8584.1	9026.5
62.5°	7700.1	7762.0	7950.7	8151.1	8675.7	9229.3	9502.6	9643.6	9412.6	9230.1	9033.5
65°	7253.0	7285.1	7557.6	8234.9	8294.4	8432.2	8516.8	8697.6	8996.7	9479.2	8710.2
67.5°	6520.1	6614.9	6948.4	7748.6	7169.2	7006.4	6985.2	6805.1	7581.9	8885.6	7913.1
70°	5386.3	5428.6	5839.7	6352.6	5410.6	5160.0	5260.3	5192.9	5877.3	7649.2	6369.0
72.5°	4073.2	4168.8	4570.4	5063.7	3681.7	3356.8	3633.2	3608.1	4414.6	6147.4	4375.5
75°	2897.9	2959.7	3471.9	3962.8	2578.4	2184.6	2284.0	2377.2	3081.9	4853.9	2585.5
77.5°	1991.2	2044.4	2428.9	2620.7	1880.8	1801.7	1648.2	1738.3	2019.4	2879.9	1407.1
80°	1201.1	1198.8	1451.7	1498.7	1310.0	1521.4	1276.3	1432.9	1220.7	1232.4	545.0
82.5°	779.9	772.0	887.9	967.8	729.0	766.6	514.4	741.5	795.5	343.7	172.3
85°	349.2	364.1	426.7	563.0	319.5	169.9	104.9	227.9	339.0	173.0	0.0
87.5°	36.0	28.2	75.2	137.0	43.8	4.7	15.7	7.8	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°	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5
2.5°	3727.2	3681.7	3546.3	3419.4	3310.6	3177.5	3091.3	2955.8	2873.6	2848.6	2852.5
5°	3577.6	3446.8	3189.2	2983.2	2753.8	2623.0	2424.2	2233.1	2129.8	2091.4	2074.2
7.5°	3264.4	3124.2	2813.3	2489.9	2244.1	2014.7	1866.7	1698.3	1583.2	1488.5	1472.0
10°	3031.8	2847.8	2462.5	2114.9	1920.7	1748.4	1600.5	1432.1	1296.6	1188.6	1158.8
12.5°	2892.4	2686.5	2256.6	1965.3	1781.3	1604.4	1411.7	1216.8	1078.2	961.5	907.5
15°	2867.3	2628.5	2198.7	1858.1	1631.0	1417.2	1161.2	950.6	808.1	697.7	664.0
17.5°	3018.5	2732.7	2190.1	1746.1	1434.5	1131.4	865.2	690.6	530.1	468.2	444.0
20°	3287.9	2916.7	2189.3	1616.1	1232.4	871.5	607.6	450.2	385.2	355.5	341.4
22.5°	3655.1	3167.3	2230.8	1504.1	1022.6	642.8	433.8	358.6	321.0	296.8	291.3
25°	4103.8	3538.5	2332.6	1428.2	862.1	504.3	357.8	306.9	275.6	264.7	260.0
27.5°	4502.3	3893.9	2444.5	1349.9	747.0	446.3	332.0	281.1	256.0	247.4	240.4
30°	4846.1	4216.5	2498.6	1246.5	654.6	408.7	336.7	300.7	267.8	241.9	230.2
32.5°	5132.6	4464.0	2533.8	1152.6	576.3	334.3	266.2	232.6	217.7	208.3	200.4
35°	5491.3	4731.7	2512.6	1099.3	536.4	304.6	242.7	200.4	175.4	156.6	148.8
37.5°	5867.1	4999.5	2475.8	1055.5	518.3	282.7	231.0	190.3	162.9	143.3	133.1
40°	6256.2	5247.7	2432.8	1014.8	501.9	268.6	223.9	181.7	154.3	133.1	122.1
42.5°	6612.5	5489.7	2415.6	988.1	475.3	270.9	218.5	177.7	145.6	123.7	114.3
45°	6900.7	5719.1	2439.0	974.1	446.3	267.0	220.0	173.0	138.6	117.4	108.1
47.5°	7208.4	6043.3	2515.0	960.0	418.1	248.2	231.8	172.3	135.5	113.5	103.4
50°	7566.2	6458.3	2688.8	925.5	383.7	227.9	246.6	171.5	131.5	108.8	98.7
52.5°	8043.1	6929.6	2868.1	865.2	333.6	208.3	235.7	169.1	123.7	103.4	93.2
55°	8471.4	7426.1	3020.0	794.0	270.1	180.1	212.2	158.9	110.4	94.0	84.6
57.5°	8648.3	7706.4	3015.3	695.3	216.1	158.2	174.6	145.6	96.3	83.0	75.2
59°	8583.3	7671.1	2914.3	622.5	197.3	146.4	144.9	144.1	90.0	75.2	68.9
60°	8491.7	7542.7	2805.5	586.5	185.6	138.6	133.1	142.5	84.6	70.5	64.2
62.5°	8140.9	7010.3	2444.5	525.4	169.9	117.4	106.5	120.6	75.2	61.1	55.6
65°	7632.8	6192.0	2069.5	508.2	165.2	97.1	88.5	86.1	64.2	51.7	47.0
67.5°	6641.5	5239.9	1676.4	496.4	166.8	81.4	77.5	65.0	53.2	43.1	39.9
70°	5317.4	4085.8	1372.6	483.1	168.3	66.6	65.0	51.7	43.1	36.0	32.9
72.5°	3230.7	2421.8	1080.5	419.7	163.6	53.2	57.9	39.2	31.3	25.8	24.3
75°	1997.4	1657.6	670.2	326.5	108.1	39.2	40.7	24.3	21.1	16.4	16.4
77.5°	1157.3	1046.9	239.6	117.4	47.8	23.5	18.0	12.5	11.7	7.0	7.0
80°	480.0	384.5	83.0	39.9	25.8	11.0	3.9	0.8	0.0	0.0	0.0
82.5°	140.2	124.5	22.7	18.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5
2.5°	2785.9	2760.1	2748.3	2788.3	2751.5	2798.4	2762.4	2778.1	2824.3	2844.6	2897.1
5°	2085.1	2058.5	2046.0	2106.3	2103.1	2132.9	2129.8	2157.2	2180.7	2128.2	2182.2
7.5°	1452.5	1434.5	1464.2	1511.2	1561.3	1544.9	1544.9	1508.1	1520.6	1512.8	1510.4
10°	1104.8	1043.0	1027.3	1025.7	1044.5	1048.4	1027.3	976.4	995.2	1000.7	1033.6
12.5°	869.1	821.4	748.5	715.7	707.0	714.1	644.4	599.8	620.9	608.4	640.5
15°	623.3	584.1	541.1	504.3	494.1	480.0	404.0	350.8	344.5	346.9	352.4
17.5°	444.7	418.1	418.1	379.0	357.8	315.5	277.2	253.7	251.3	253.7	257.6
20°	328.1	314.0	312.4	302.2	278.7	250.6	223.9	219.2	217.7	221.6	223.2
22.5°	282.7	267.8	255.3	254.5	232.6	209.1	196.5	190.3	191.1	192.6	196.5
25°	252.9	237.2	223.9	216.1	200.4	184.0	172.3	169.1	169.1	171.5	172.3
27.5°	231.8	212.2	200.4	189.5	175.4	161.3	151.1	148.8	147.2	148.8	152.7
30°	216.9	197.3	182.4	166.0	155.0	141.7	133.1	130.0	129.2	130.0	133.1
32.5°	185.6	173.8	162.1	147.2	133.9	125.3	115.9	110.4	110.4	112.0	115.1
35°	140.2	133.9	133.1	129.2	118.2	108.8	97.9	92.4	92.4	95.5	97.1
37.5°	123.7	112.0	110.4	108.8	104.1	91.6	81.4	76.7	76.0	78.3	81.4
40°	112.8	99.4	92.4	90.8	91.6	77.5	66.6	61.9	61.9	62.6	65.8
42.5°	104.1	88.5	76.0	74.4	77.5	65.0	54.0	49.3	49.3	49.3	53.2
45°	97.1	79.1	64.2	56.4	61.1	53.2	43.8	39.2	37.6	39.2	40.7
47.5°	92.4	72.0	56.4	45.4	45.4	42.3	35.2	29.8	28.2	29.0	31.3
50°	88.5	65.8	47.8	36.8	32.9	33.7	26.6	22.7	21.1	21.1	23.5
52.5°	82.2	59.5	41.5	31.3	25.1	22.7	19.6	16.4	15.7	16.4	18.0
55°	74.4	54.0	36.0	25.8	19.6	15.7	14.1	11.7	11.0	11.7	14.1
57.5°	65.8	45.4	29.0	20.4	13.3	10.2	9.4	7.8	6.3	7.0	8.6
59°	60.3	40.7	25.1	16.4	10.2	7.0	7.0	5.5	3.9	4.7	7.0
60°	57.9	37.6	21.1	14.1	8.6	5.5	5.5	3.9	2.3	3.1	5.5
62.5°	49.3	31.3	16.4	8.6	3.9	0.8	2.3	0.8	0.0	0.8	2.3
65°	41.5	25.1	11.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.8
67.5°	34.5	18.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	27.4	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P647886  
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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5
2.5°	2900.2	3012.2	3081.1	3211.2	3344.3	3446.8	3575.3	3690.4	3738.1	3763.2
5°	2237.0	2392.8	2525.2	2723.3	2907.3	3131.3	3358.4	3626.2	3728.7	3755.3
7.5°	1569.9	1728.9	1867.5	2096.9	2359.2	2659.1	2998.9	3338.8	3488.3	3530.6
10°	1133.8	1303.7	1472.8	1702.2	1947.3	2272.3	2626.2	3046.7	3219.0	3251.9
12.5°	715.7	898.1	1172.9	1456.4	1715.6	1977.1	2347.4	2804.7	2995.0	3055.3
15°	415.0	551.2	758.7	1128.3	1457.9	1804.0	2208.1	2713.9	2926.9	2988.7
17.5°	278.0	324.9	467.5	750.1	1185.5	1644.3	2172.8	2788.3	3023.9	3103.0
20°	234.1	255.3	305.4	457.3	913.0	1501.8	2182.2	2990.3	3299.6	3398.3
22.5°	205.9	225.5	257.6	328.9	637.4	1324.8	2226.9	3279.3	3678.6	3804.7
25°	181.7	201.2	229.4	272.5	428.3	1120.5	2324.7	3702.1	4180.5	4319.1
27.5°	161.3	179.3	203.6	240.4	329.6	892.6	2411.6	4114.0	4638.6	4751.3
30°	142.5	157.4	180.9	209.1	274.0	688.3	2455.5	4474.1	4972.1	5097.4
32.5°	123.7	137.8	160.5	183.2	225.5	524.6	2425.0	4738.8	5296.3	5376.2
35°	105.7	120.6	139.4	160.5	195.0	423.6	2272.3	5036.3	5632.2	5694.8
37.5°	90.8	103.4	122.9	139.4	176.2	339.0	2087.5	5304.1	6008.8	6098.9
40°	76.7	89.3	108.8	123.7	162.1	267.0	1920.7	5601.7	6405.8	6517.0
42.5°	62.6	77.5	94.7	119.0	139.4	203.6	1718.7	5842.8	6704.1	6843.5
45°	50.1	66.6	85.3	118.2	121.4	155.0	1523.7	6030.7	6968.0	7093.3
47.5°	39.9	56.4	82.2	110.4	99.4	122.9	1412.5	6227.3	7187.2	7287.5
50°	32.1	47.0	86.1	97.1	83.0	104.1	1409.4	6446.5	7300.8	7367.3
52.5°	25.8	38.4	72.8	74.4	70.5	91.6	1494.0	6693.2	7416.7	7471.5
55°	21.9	32.1	47.8	54.8	63.4	83.0	1557.4	7072.9	7693.1	7744.7
57.5°	17.2	27.4	36.8	43.8	56.4	76.0	1566.0	7365.8	8043.1	8076.7
59°	14.9	23.5	32.9	39.2	51.7	71.3	1530.8	7383.8	8065.8	8119.8
60°	12.5	21.1	29.0	36.8	47.8	67.3	1492.4	7253.0	7981.2	8041.5
62.5°	9.4	16.4	21.1	29.8	39.2	57.9	1310.7	6796.5	7657.8	7700.1
65°	6.3	11.7	15.7	21.9	30.5	50.1	1068.0	6204.6	7158.3	7253.0
67.5°	3.9	8.6	12.5	16.4	25.1	42.3	761.1	5320.6	6459.0	6520.1
70°	2.3	5.5	9.4	13.3	19.6	33.7	451.8	4205.6	5373.8	5386.3
72.5°	1.6	3.9	6.3	9.4	15.7	30.5	219.2	2741.3	3923.7	4073.2
75°	0.8	2.3	3.9	7.0	12.5	25.1	104.9	1831.4	2854.8	2897.9
77.5°	0.0	0.8	2.3	4.7	9.4	19.6	61.1	1202.7	1946.5	1991.2
80°	0.0	0.0	1.6	3.9	7.0	12.5	36.8	709.4	1179.2	1201.1
82.5°	0.0	0.0	0.8	3.1	4.7	9.4	18.8	311.6	772.0	779.9
85°	0.0	0.0	0.8	3.1	3.9	6.3	7.0	42.3	343.0	349.2
87.5°	0.0	0.0	0.8	3.9	3.9	3.9	3.9	2.3	29.0	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)