

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: P648675

Luminaire Tested: **GALN-SA9B-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35259.3 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

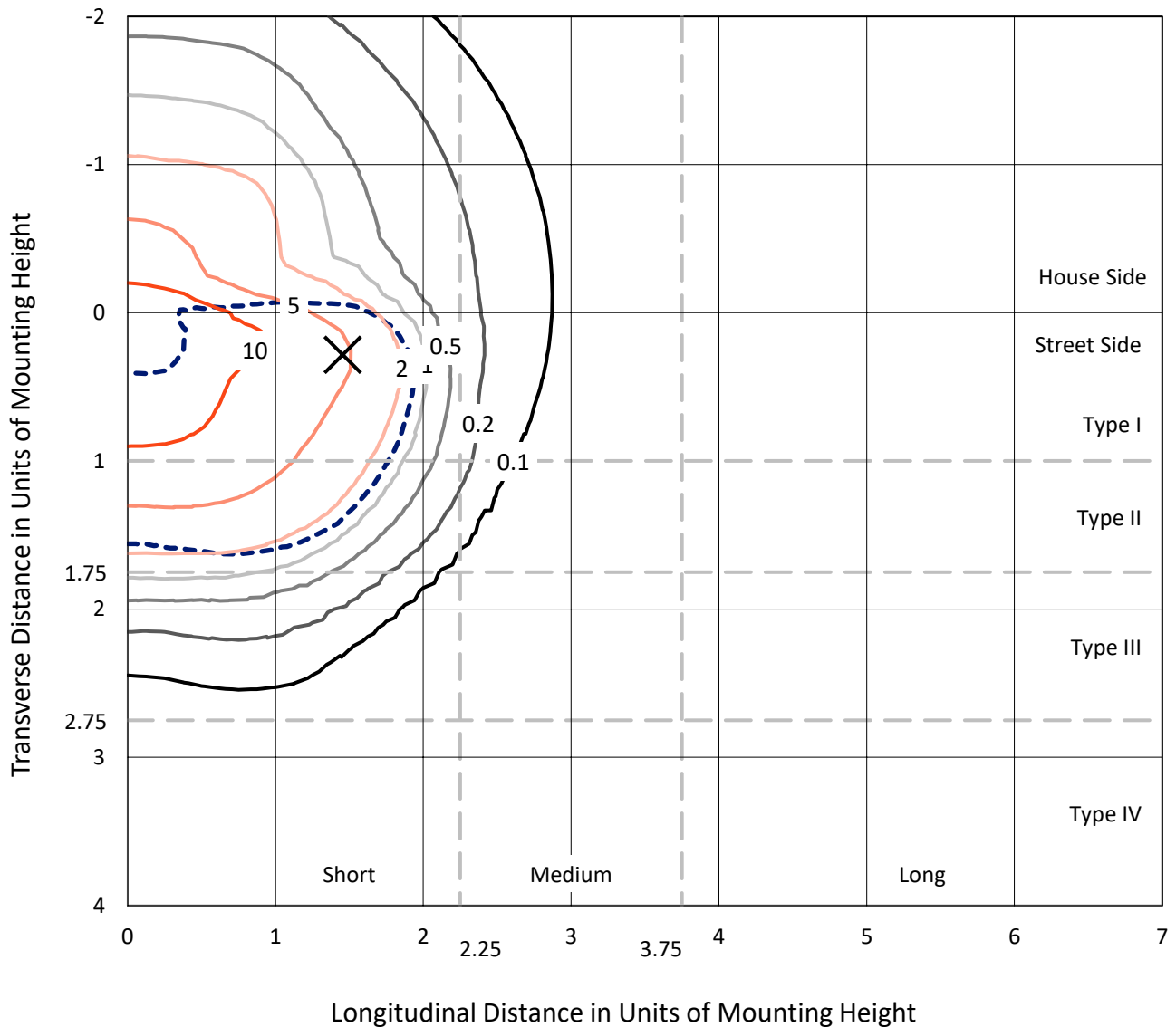
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

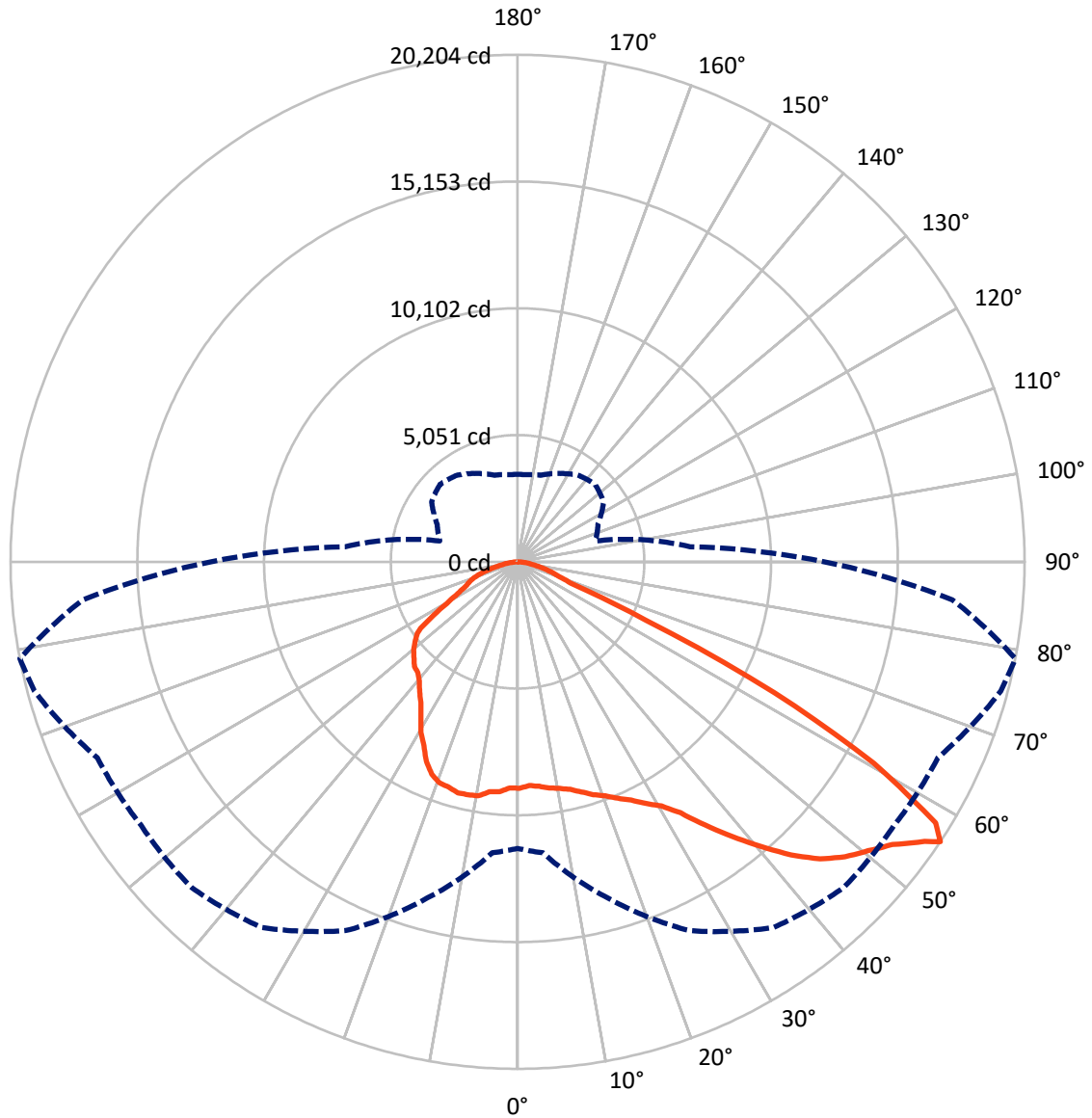
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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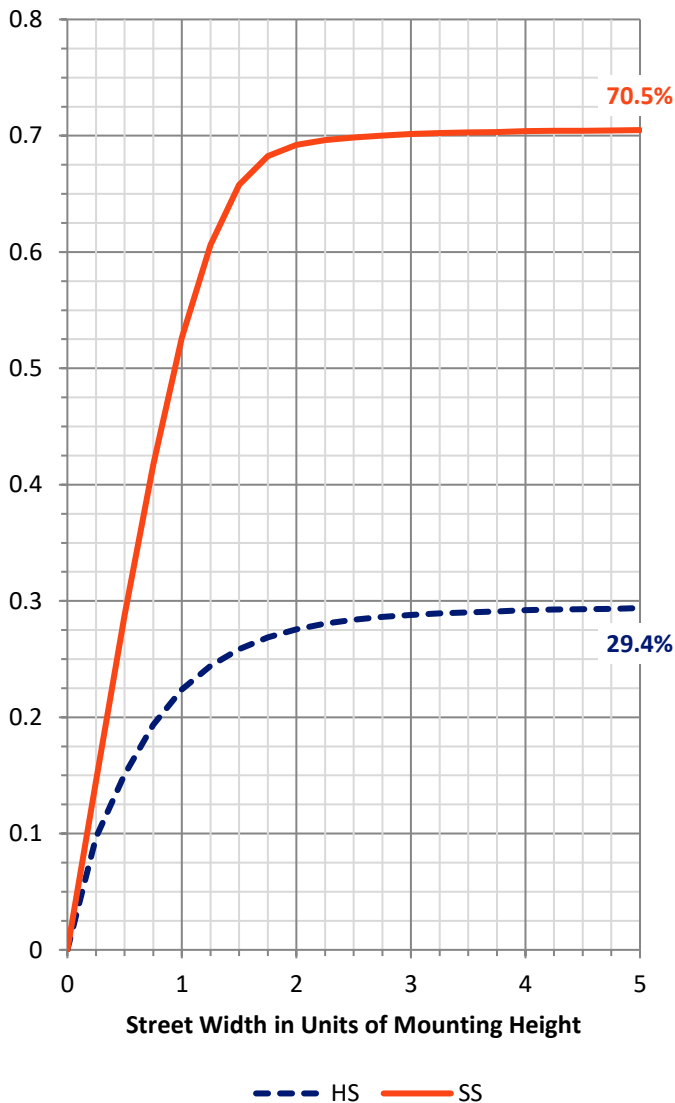
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10412.8	0.0	10412.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	24846.4	0.0	24846.4
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	35259.3	0.0	35259.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	820.2	2.3
10°-20°	2244.7	6.4
20°-30°	3840.3	10.9
30°-40°	5885.7	16.7
40°-50°	7954.5	22.6
50°-60°	9136.0	25.9
60°-70°	4164.5	11.8
70°-80°	1026.7	2.9
80°-90°	186.6	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°	35259.3	100.0
0°-180°	35259.3	100.0



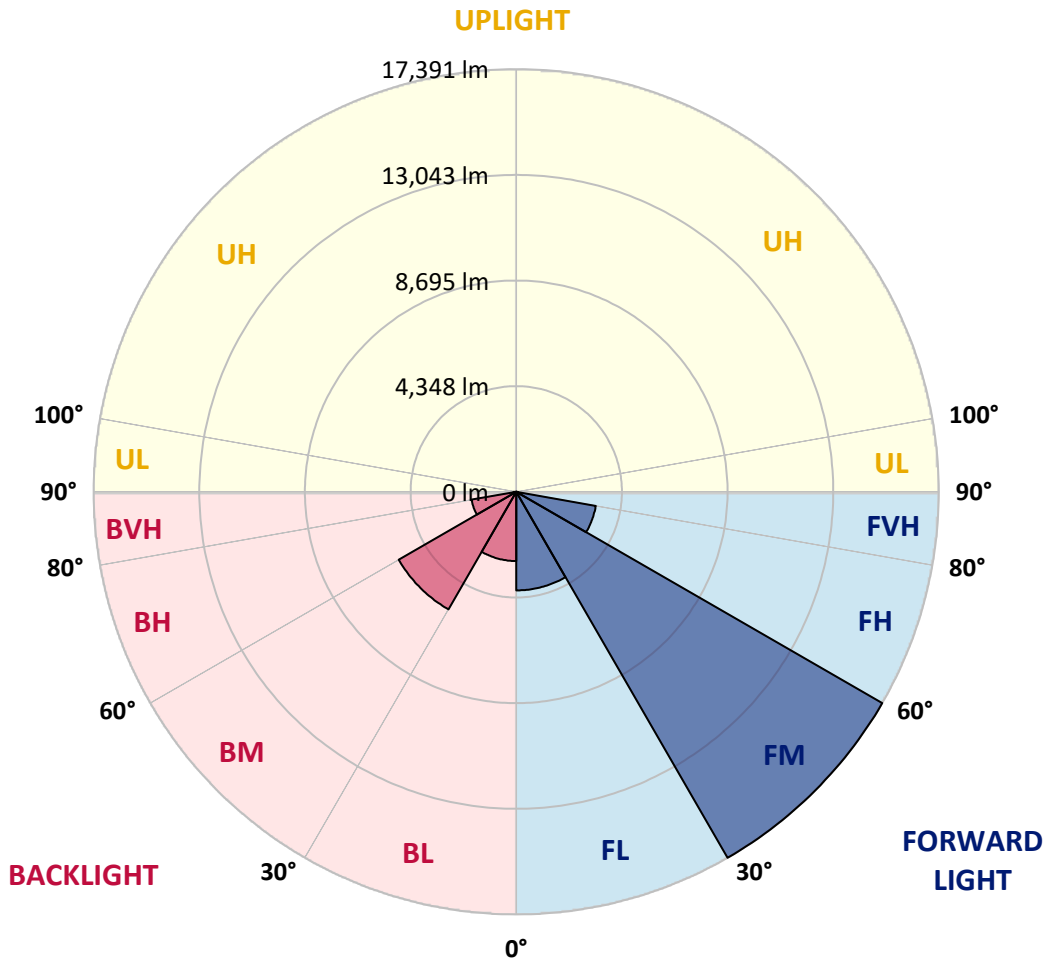
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 CATALOG NUMBER: GALN-SA9B-835-U-T3R-GRSWH

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4056.9	11.5			
FM	(30°-60°)	17390.9	49.3			
FH	(60°-80°)	3324.1	9.4			G2/5000
FVH	(80°-90°)	74.5	0.2			G1/100
BL	(0°-30°)	2848.4	8.1	B4/5000		
BM	(30°-60°)	5585.3	15.8	B4/8500		
BH	(60°-80°)	1867.1	5.3	B3/2500		G3/2500
BVH	(80°-90°)	112.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4
2.5°	8582.2	8560.3	8613.0	8652.5	8700.9	8762.3	8793.1	8810.6	8964.3	8924.8	9043.4
5°	8397.8	8340.7	8380.2	8410.9	8494.4	8569.1	8652.5	8784.2	8924.8	8986.3	9131.3
7.5°	8235.3	8204.5	8195.7	8217.7	8331.9	8428.5	8573.5	8766.7	8995.1	9096.1	9179.6
10°	7967.3	7923.4	7989.3	8134.3	8165.0	8367.1	8533.9	8810.6	9008.3	9184.0	9429.9
12.5°	7848.7	7804.9	7818.0	7901.5	8116.7	8309.9	8507.6	8819.4	9236.7	9307.0	9636.4
15°	8037.7	7993.7	8006.9	7984.9	8191.4	8292.4	8604.2	8995.1	9394.7	9513.4	9864.7
17.5°	8468.1	8472.5	8415.4	8367.1	8318.7	8533.9	8749.2	9100.5	9456.3	9754.9	10018.5
20°	9289.4	9144.4	9030.3	8757.9	8683.2	8775.5	9047.8	9386.0	9706.6	9952.6	10251.3
22.5°	9921.9	9935.0	9772.5	9324.5	9162.0	9201.5	9434.3	9711.0	10062.4	10238.0	10580.7
25°	10839.8	10747.5	10571.9	10216.1	9851.5	9882.3	10053.6	10304.0	10400.6	10523.6	10896.9
27.5°	11678.7	11705.1	11358.0	11024.2	10571.9	10484.1	10791.5	10835.4	10672.9	10905.7	11033.0
30°	12530.7	12508.8	12280.4	11889.5	11445.9	11463.5	11599.7	11384.4	11160.4	11287.8	11375.7
32.5°	13413.6	13163.2	13154.5	12803.1	12464.9	12302.4	12135.5	12240.9	11893.9	11920.2	11836.8
35°	14120.7	14155.9	13953.8	13703.4	13536.6	13251.1	12794.3	12983.2	12917.3	12886.5	12526.4
37.5°	14634.6	14498.4	14599.5	14516.0	14357.9	14002.2	13527.8	13707.8	13738.6	13887.9	13470.7
40°	15056.2	14999.1	15267.1	15311.0	15201.2	14432.6	13580.5	14116.3	14577.5	14902.5	14406.2
42.5°	15258.3	15381.3	15662.3	16000.5	15754.6	14933.3	13852.8	14428.2	15456.0	15969.8	15293.4
45°	15530.6	15372.5	15789.7	16409.0	16413.4	15354.9	14116.3	14849.8	16141.1	16887.7	15899.5
47.5°	15253.9	15332.9	15763.4	16549.6	16751.6	15798.5	14827.8	15447.2	16896.6	17559.8	16461.7
50°	14634.6	14792.7	15578.9	16395.9	17006.4	16268.5	15644.8	16092.8	17594.9	18100.0	16554.0
52.5°	13988.9	14076.8	15306.6	16514.4	17120.5	16874.6	16738.4	16984.4	18447.0	18710.5	16668.2
55°	12232.1	12649.4	14406.2	16461.7	17678.3	17968.2	17862.8	18223.0	19413.2	19676.8	17291.9
56°	11419.6	11639.1	13866.0	16215.8	17788.2	18367.9	18315.2	18477.7	19927.1	20203.8	17388.5
57.5°	9917.5	9935.0	11823.6	15126.5	17375.3	18486.5	18433.8	18561.2	19826.1	19637.2	16540.8
60°	6206.1	6478.4	8046.4	11634.8	14775.1	17151.3	17449.9	16426.6	16716.5	16316.8	12869.0
62.5°	3215.1	3175.5	4216.5	6803.4	9807.6	12280.4	12557.1	12508.8	12060.8	11476.7	8406.5
65°	1603.1	1611.9	2204.8	3368.8	5024.6	6430.1	7203.1	7286.5	6096.3	5608.8	3988.1
67.5°	1163.9	1207.9	1585.6	2059.9	2367.4	2648.5	3245.8	3184.3	2411.2	2292.7	2125.8
70°	904.8	944.3	1286.9	1572.4	1427.4	1427.4	1554.8	1607.5	1717.4	1765.7	1822.7
72.5°	658.8	689.6	983.8	1084.8	935.5	1005.8	1163.9	1286.9	1401.1	1418.6	1484.6
75°	452.4	478.7	645.7	597.4	562.2	694.0	852.1	966.3	1049.7	1093.6	1133.2
77.5°	294.3	303.0	368.9	311.9	360.2	448.0	553.4	650.0	733.5	768.6	777.4
80°	131.8	144.9	158.1	197.6	250.3	320.6	395.3	474.3	527.0	540.3	566.6
82.5°	74.7	74.7	96.6	140.5	184.5	232.8	285.5	342.6	404.1	417.3	412.9
85°	39.5	39.5	57.1	83.5	114.2	136.2	131.8	136.2	144.9	166.9	162.5
87.5°	13.2	13.2	17.5	17.5	21.9	26.4	21.9	30.8	39.5	39.5	39.5
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°	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4	9021.4
2.5°	9008.3	9047.8	8995.1	9109.3	9109.3	9087.3	8977.6	9012.6	9039.0	9039.0	9061.0
5°	9179.6	9166.4	9201.5	9065.3	8981.9	8951.2	8771.1	8683.2	8608.6	8604.2	8538.3
7.5°	9276.2	9241.0	9227.9	9126.9	8757.9	8533.9	8147.4	7923.4	7875.1	7703.8	7769.7
10°	9429.9	9495.8	9429.9	8880.9	8367.1	7853.2	7475.5	7128.4	6992.3	6882.5	6816.6
12.5°	9746.2	9715.4	9333.3	8591.0	7870.7	7260.2	6698.0	6333.5	6197.3	6100.7	6091.9
15°	10014.1	9860.3	9276.2	8134.3	7097.7	6447.7	5986.5	5727.3	5665.9	5674.6	5714.2
17.5°	10106.3	10000.9	8977.6	7659.9	6522.3	5758.1	5542.9	5503.3	5560.5	5626.3	5643.9
20°	10251.3	10084.3	8854.6	7014.3	5810.8	5327.7	5314.5	5455.0	5560.5	5657.1	5670.3
22.5°	10554.3	10132.6	8454.8	6403.8	5323.3	5200.3	5327.7	5446.2	5608.8	5687.8	5617.6
25°	10642.1	10027.3	7892.6	5670.3	5015.8	5121.2	5257.4	5419.9	5534.1	5578.0	5608.8
27.5°	10716.8	9864.7	7132.8	5182.8	4919.2	5116.8	5257.4	5393.5	5455.0	5494.5	5529.7
30°	10927.6	9816.4	6474.0	4857.7	4857.7	5029.0	5209.1	5244.2	5327.7	5376.0	5437.5
32.5°	11033.0	9482.6	5797.6	4651.3	4796.2	5072.9	5086.1	5152.0	5156.4	5195.9	5130.0
35°	11309.7	9245.4	5169.5	4501.9	4822.6	5029.0	5094.9	5055.4	4840.1	4734.7	4756.6
37.5°	11511.8	9126.9	4717.2	4484.4	4827.0	5077.3	5112.4	4813.8	4589.8	4414.1	4458.0
40°	12056.4	8832.6	4374.5	4453.6	4866.5	5130.0	5033.4	4708.3	4304.3	4124.2	4093.4
42.5°	12473.7	8621.8	4159.4	4418.5	4897.2	5204.7	4993.9	4497.6	4084.7	3917.8	3961.7
45°	12956.8	8573.5	4045.1	4427.2	4950.0	5244.2	4945.6	4335.0	3895.8	3830.0	3816.7
47.5°	13128.1	8226.5	3922.2	4352.6	4936.7	5231.1	4783.0	4212.1	3825.6	3834.4	3869.5
50°	12842.6	7870.7	3830.0	4198.9	4848.9	5112.4	4528.3	4049.5	3786.0	3895.8	3957.3
52.5°	12478.0	7506.2	3641.1	3992.4	4668.9	4928.0	4409.7	4040.7	3746.5	3711.3	3724.5
55°	12587.9	7207.5	3377.5	3711.3	4378.9	4585.4	4277.9	3957.3	3649.9	3518.1	3562.0
56°	12232.1	6900.0	3206.2	3535.6	4181.3	4365.8	4212.1	3882.7	3570.8	3482.9	3482.9
57.5°	11226.3	5867.9	2982.3	3254.5	3764.0	3983.7	4084.7	3838.7	3482.9	3329.2	3333.6
60°	8279.2	4172.5	2674.8	2868.1	3118.5	3294.1	3764.0	3715.7	3263.4	3157.9	3118.5
62.5°	5103.7	3048.1	2455.2	2529.9	2657.3	2802.2	3285.3	3364.4	3030.6	2916.4	2890.1
65°	2859.3	2332.2	2288.3	2319.0	2380.6	2455.2	2727.5	2903.2	2674.8	2499.1	2490.3
67.5°	2090.7	2086.3	2121.4	2147.8	2174.1	2174.1	2240.0	2310.2	2279.5	2139.0	2125.8
70°	1857.9	1871.1	1897.4	1901.8	1910.6	1879.8	1827.1	1805.2	1840.3	1752.4	1734.9
72.5°	1532.9	1576.8	1607.5	1611.9	1563.6	1524.1	1453.8	1379.1	1352.8	1335.2	1330.8
75°	1177.1	1207.9	1221.0	1216.6	1199.1	1141.9	1058.5	983.8	935.5	882.8	909.1
77.5°	795.0	838.9	860.8	860.8	834.5	746.7	707.1	650.0	601.7	544.7	553.4
80°	557.8	588.6	623.7	619.3	575.3	531.4	474.3	421.6	382.1	338.2	333.8
82.5°	417.3	434.8	452.4	443.6	412.9	368.9	329.4	281.1	237.2	206.4	206.4
85°	149.3	162.5	197.6	206.4	224.0	224.0	188.9	158.1	127.4	105.4	105.4
87.5°	43.9	43.9	48.3	48.3	43.9	48.3	39.5	43.9	48.3	30.8	30.8
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)