

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: P533356

Luminaire Tested: **GALN-SA8D-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-735-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49230 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

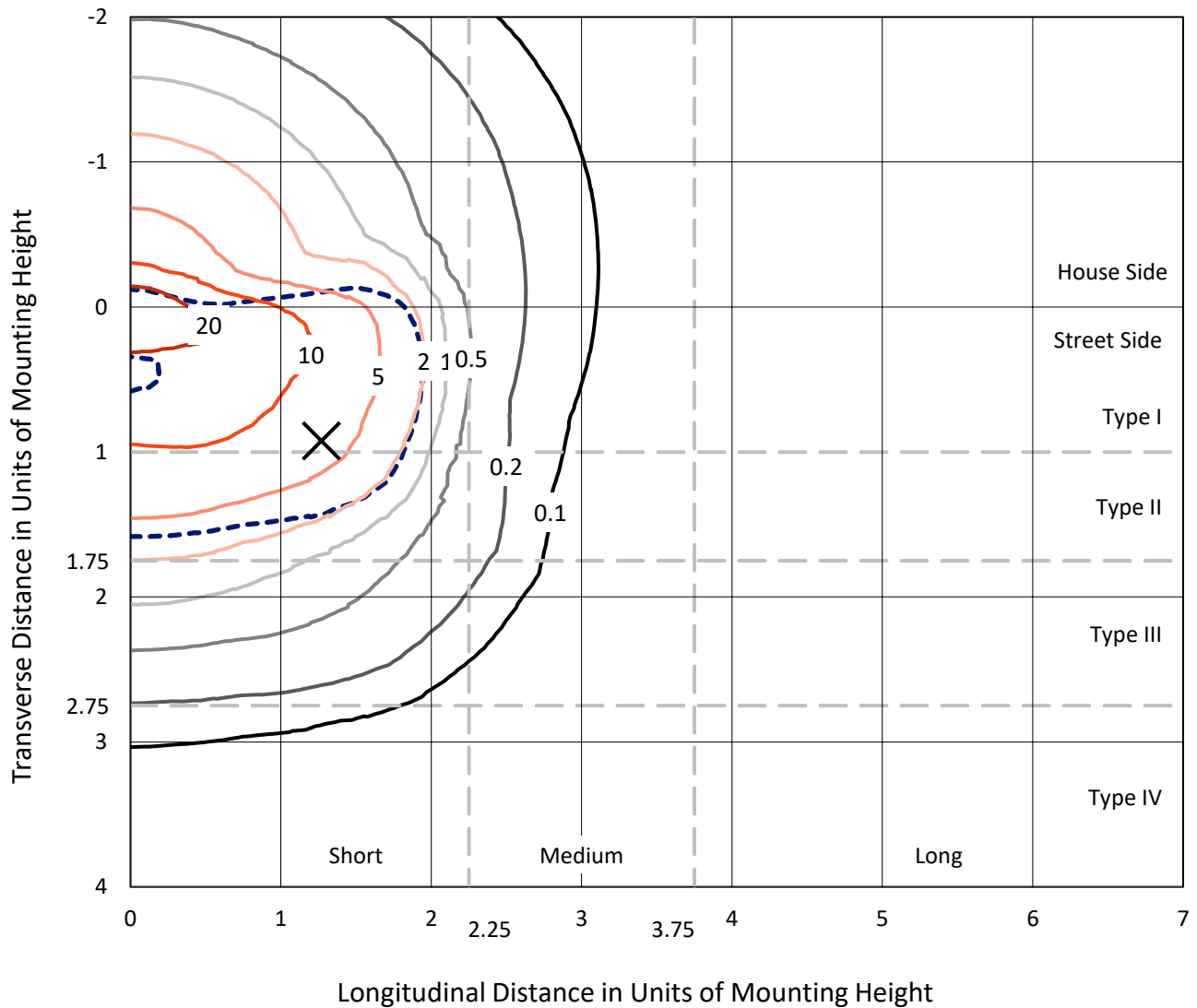
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

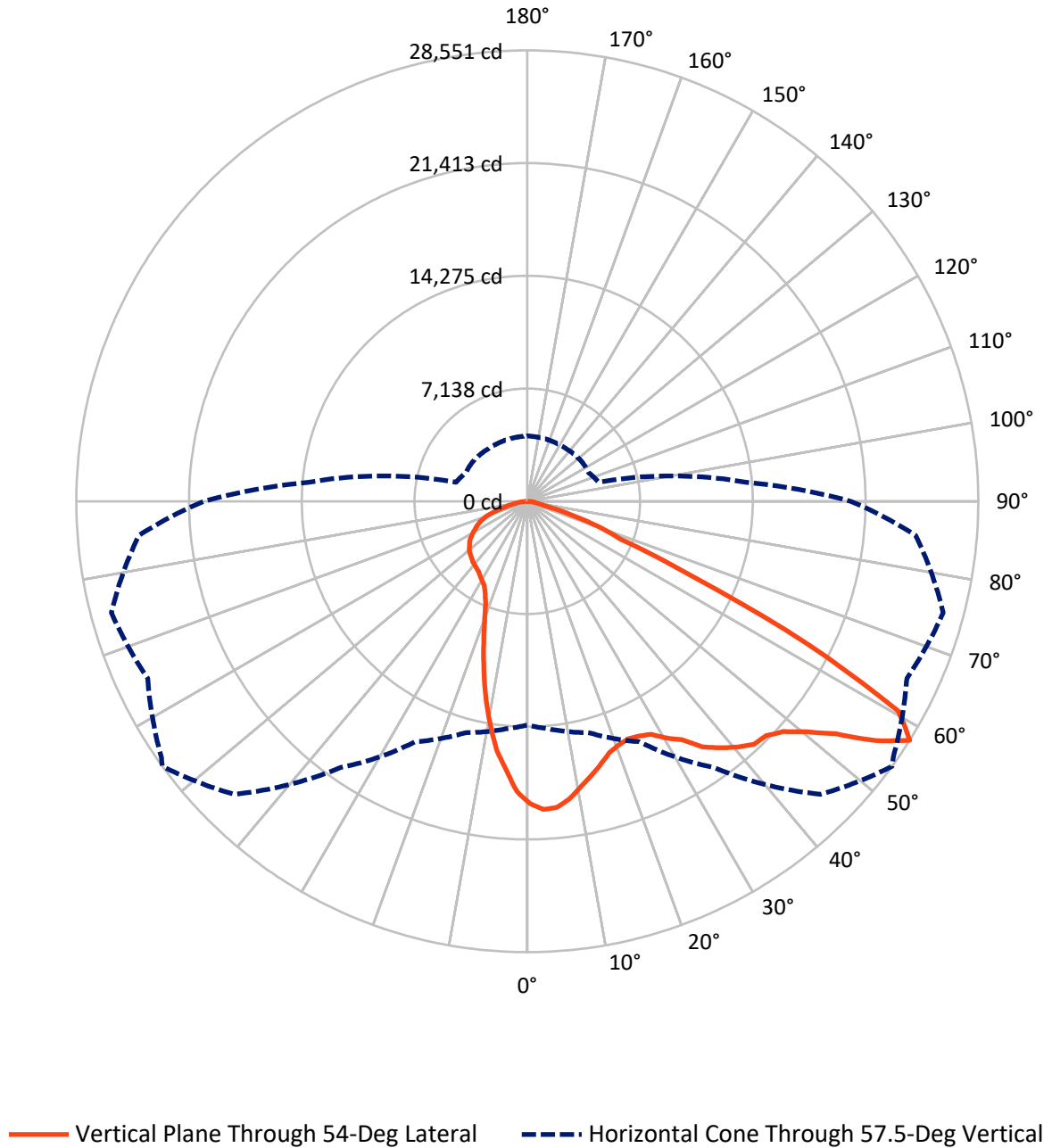
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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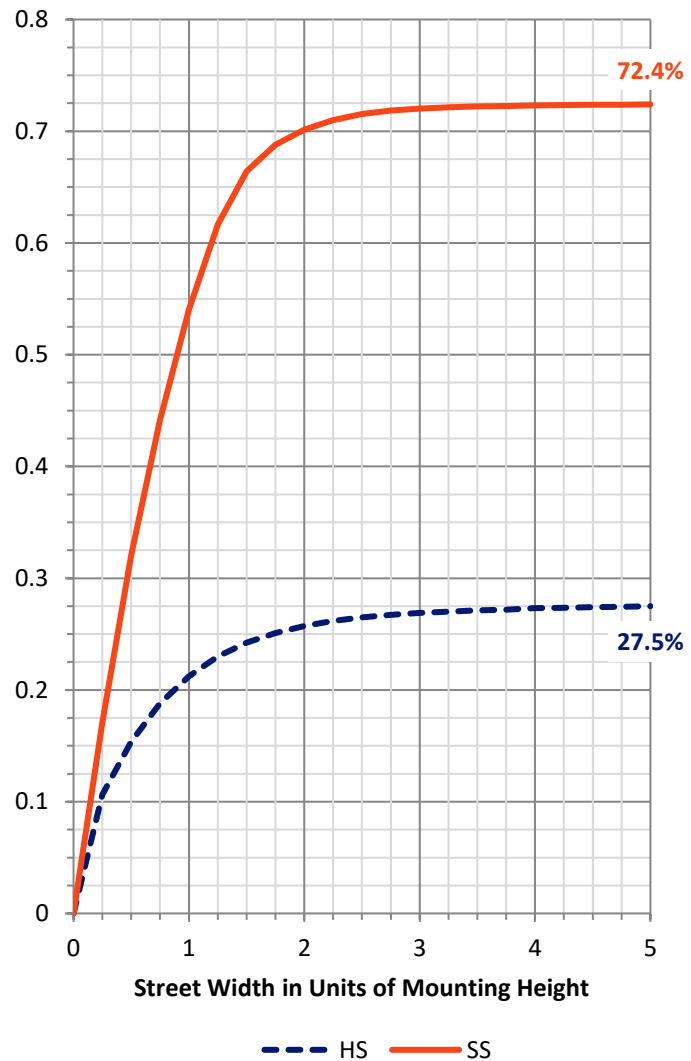
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13619.7	0.0	13619.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	35610.2	0.0	35610.2
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	49230.0	0.0	49230.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1650.2	3.4
10°-20°	3820.9	7.8
20°-30°	5368.4	10.9
30°-40°	7505.0	15.2
40°-50°	10160.4	20.6
50°-60°	12375.7	25.1
60°-70°	6445.8	13.1
70°-80°	1651.7	3.4
80°-90°	251.9	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°	49230.0	100.0
0°-180°	49230.0	100.0



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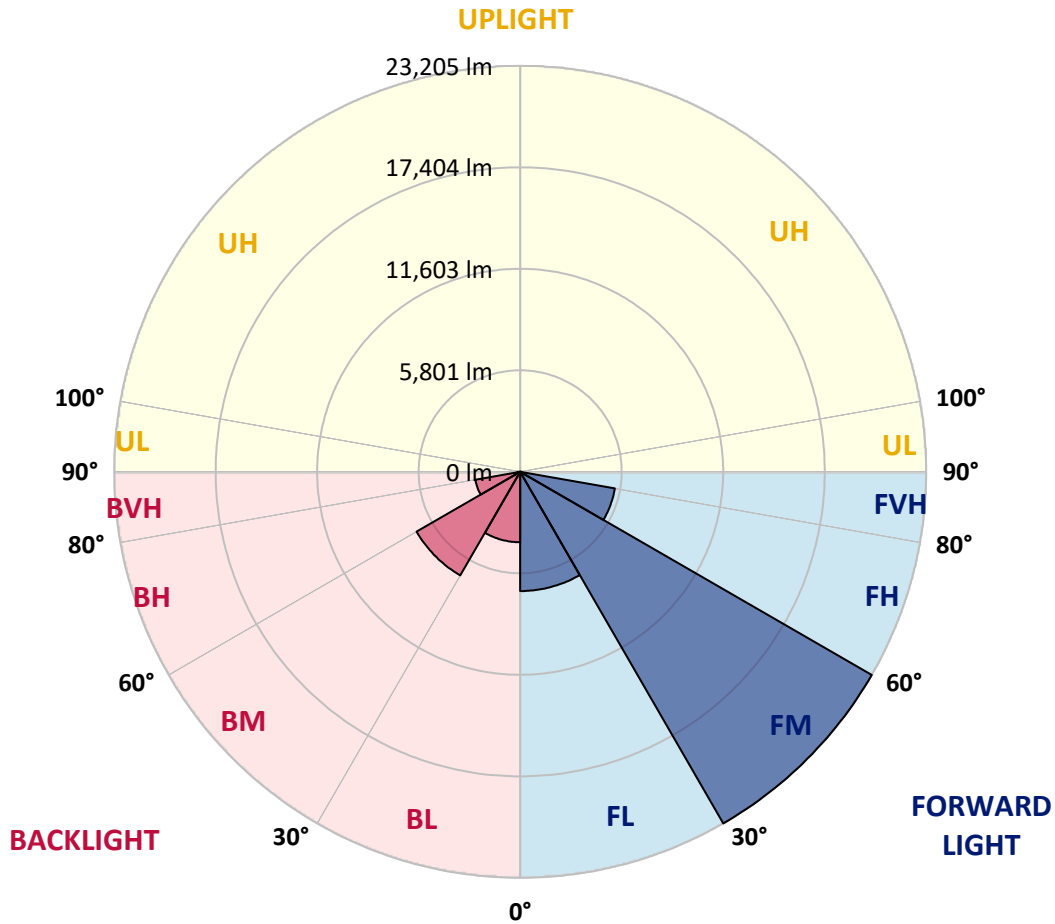
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6814.1	13.8			
FM (30°-60°)	23205.5	47.1			
FH (60°-80°)	5495.4	11.2			G3/7500
FVH (80°-90°)	95.2	0.2			G1/100
BL (0°-30°)	4025.3	8.2	B4/5000		
BM (30°-60°)	6835.6	13.9	B4/8500		
BH (60°-80°)	2602.0	5.3	B4/5000		G4/5000
BVH (80°-90°)	156.7	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1
2.5°	19679.3	19603.4	19616.0	19717.3	19590.7	19540.1	19540.1	19293.3	19312.3	19141.5	19097.2
5°	19223.7	19046.5	19166.8	19318.6	19344.0	19394.6	19476.8	19413.6	19236.4	19052.9	18755.5
7.5°	18034.1	18192.3	18236.6	18344.2	18572.0	18780.8	19040.2	18863.0	18856.7	18673.2	18496.0
10°	16990.0	16895.1	17135.6	17293.8	17673.4	18021.5	18420.1	18401.1	18496.0	18287.2	17983.5
12.5°	15952.3	15876.3	15990.2	16350.9	16882.5	17388.7	17863.3	17686.1	18192.3	18154.3	17502.6
15°	14851.2	14908.2	15072.7	15408.1	16104.1	16711.6	17312.7	17319.1	17768.3	17920.2	17047.0
17.5°	14079.3	14016.0	14224.8	14724.7	15344.8	16072.5	16755.9	16895.1	17584.8	17673.4	16907.8
20°	13503.4	13592.0	13864.1	14117.2	14832.3	15711.8	16483.8	16534.4	17546.9	17787.3	16686.3
22.5°	13364.2	13313.6	13402.2	13813.5	14402.0	15357.5	16338.3	16528.1	17540.5	17749.4	16268.7
25°	13218.7	13383.2	13376.9	13788.2	14218.5	15072.7	16458.5	16667.3	17875.9	17945.5	16325.6
27.5°	13547.7	13528.7	13705.9	13737.6	14269.1	15148.7	16711.6	16869.8	18432.8	18375.8	16369.9
30°	13876.8	13781.9	13889.4	14262.8	14509.5	15585.3	17407.7	17395.0	19154.1	19116.2	16509.1
32.5°	14281.7	14237.5	14307.1	14636.1	15053.7	16167.4	17996.1	18369.5	19888.1	20128.6	16990.0
35°	14357.7	14541.2	14705.7	15148.7	15743.5	17110.3	19103.5	19413.6	20736.1	21489.1	17907.6
37.5°	14838.6	14908.2	15294.2	16078.8	16623.0	18369.5	19805.9	20002.0	21508.0	22362.3	18875.7
40°	15351.1	15433.4	16015.6	16838.2	17584.8	19192.1	20464.0	20527.2	21754.8	23033.0	19508.5
42.5°	16047.2	16123.1	16699.0	17730.4	18730.2	19894.5	21046.1	21115.7	21735.8	23805.0	20514.6
45°	16768.6	16952.1	17629.1	18799.8	19698.3	20717.1	21179.0	21463.8	21913.0	24494.7	21330.9
47.5°	17781.0	17951.8	18508.7	19654.0	20704.4	21438.4	21792.8	22071.2	22337.0	25095.9	21856.1
50°	18856.7	18888.4	19565.4	20603.2	21375.2	22254.7	22938.1	23033.0	22893.8	25791.9	22748.3
52.5°	19647.7	19748.9	20274.1	21286.6	22438.2	23520.3	24456.8	24558.0	24285.9	26051.4	23052.0
55°	18337.8	18280.9	19135.1	20482.9	23153.3	25405.9	26766.4	26842.3	25298.4	26855.0	24045.5
57.5°	14174.2	14446.3	15174.0	16800.2	20571.5	26241.2	28550.8	28278.7	26513.3	27260.0	24678.3
60°	10301.6	10238.3	10725.5	11813.9	15503.0	22615.4	26994.2	27272.6	25519.8	24570.7	20350.1
62.5°	8390.6	8302.0	8340.0	8378.0	10004.2	15009.4	19983.1	19976.7	19654.0	17660.8	13724.9
65°	6707.4	6916.2	6935.2	7220.0	7428.8	8966.4	11579.8	12199.9	10624.3	8713.3	6321.4
67.5°	5055.9	4979.9	5233.1	6245.5	6637.8	6473.3	6321.4	6391.0	4543.3	3277.8	3087.9
70°	2980.4	2948.7	3252.5	4353.5	5467.2	5144.5	4764.8	4771.1	3119.6	2290.6	2550.1
72.5°	1632.6	1626.2	1689.5	2208.4	3106.9	3227.2	2860.1	2948.7	1860.4	1854.0	1993.2
75°	911.2	892.2	873.2	974.5	1120.0	1183.3	1208.6	1221.3	1278.2	1430.1	1487.0
77.5°	335.4	322.7	322.7	373.3	474.6	594.8	753.0	765.7	904.9	1037.8	1094.7
80°	113.9	126.6	170.8	234.1	316.4	424.0	512.5	525.2	639.1	727.7	746.7
82.5°	69.6	75.9	113.9	164.5	227.8	297.4	379.7	386.0	474.6	531.5	556.8
85°	31.6	38.0	63.3	101.2	145.5	196.2	202.5	202.5	196.2	202.5	189.8
87.5°	0.0	0.0	12.7	12.7	12.7	19.0	25.3	19.0	31.6	38.0	38.0
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°	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1	19135.1
2.5°	18964.3	18894.7	18679.5	18489.7	18432.8	18179.6	17806.3	17850.6	17578.5	17705.1	17572.2
5°	18704.8	18470.7	17920.2	17686.1	17072.3	16793.9	16604.0	16129.5	15908.0	15863.7	15673.9
7.5°	18040.4	17894.9	17205.2	16572.4	15920.6	15363.8	14648.8	14161.5	13813.5	13718.6	13440.2
10°	17515.2	17192.5	16237.0	15275.2	14345.0	13376.9	12446.7	11719.0	11364.7	10953.3	10814.1
12.5°	16996.4	16509.1	15218.3	13984.3	12782.1	11560.8	10434.5	9548.6	8776.6	8593.1	8529.8
15°	16673.6	15825.7	14307.1	12820.0	11111.5	9516.9	8390.6	7808.5	7333.9	7137.7	7276.9
17.5°	16249.7	15262.5	13433.8	11453.2	9573.9	8105.9	7163.0	6802.3	6631.5	6650.5	6593.5
20°	15718.1	14731.0	12288.5	10213.0	8200.8	7030.1	6492.3	6359.4	6384.7	6429.0	6410.0
22.5°	15338.5	14085.6	11459.6	8947.4	7087.1	6435.3	6213.9	6118.9	6201.2	6239.2	6207.5
25°	15047.4	13535.1	10453.5	7827.4	6441.7	6100.0	5998.7	5992.4	6118.9	6169.6	6137.9
27.5°	14781.6	13022.5	9453.7	6973.2	6011.4	5840.5	5808.9	5884.8	5967.1	6017.7	6062.0
30°	14623.4	12630.2	8517.2	6258.2	5796.2	5714.0	5657.0	5726.6	5770.9	5821.5	5796.2
32.5°	14775.3	12351.8	7612.3	5853.2	5619.0	5536.8	5612.7	5568.4	5644.4	5688.7	5619.0
35°	15249.9	12105.0	6966.9	5638.0	5416.6	5448.2	5460.9	5441.9	5473.5	5435.5	5517.8
37.5°	15718.1	12016.4	6372.1	5454.5	5321.6	5321.6	5309.0	5271.0	5334.3	5321.6	5359.6
40°	16313.0	12073.4	5865.8	5258.4	5233.1	5220.4	5169.8	5163.4	5138.1	5144.5	5157.1
42.5°	16831.8	12199.9	5574.8	5131.8	5150.8	5176.1	5081.2	5005.3	5036.9	4973.6	4973.6
45°	17382.3	12313.8	5315.3	5043.2	5024.2	5017.9	4942.0	4897.7	4872.4	4878.7	4935.7
47.5°	18249.3	12478.3	5119.2	4923.0	4935.7	4840.7	4821.8	4764.8	4790.1	4828.1	4834.4
50°	18863.0	12826.4	4967.3	4783.8	4828.1	4764.8	4650.9	4625.6	4625.6	4688.9	4676.2
52.5°	19293.3	13313.6	4821.8	4631.9	4650.9	4600.3	4562.3	4505.4	4467.4	4556.0	4600.3
55°	20609.5	14123.6	4783.8	4505.4	4499.0	4448.4	4378.8	4321.9	4302.9	4315.5	4404.1
57.5°	20482.9	13870.4	4663.6	4283.9	4271.2	4201.6	4132.0	4113.0	4106.7	4119.4	4144.7
60°	16629.3	10244.6	4163.7	4030.8	4011.8	3999.1	3929.5	3853.6	3815.6	3853.6	3822.0
62.5°	11004.0	6859.3	3670.1	3727.0	3739.7	3708.1	3594.2	3518.2	3530.9	3575.2	3505.6
65°	5403.9	4030.8	3328.4	3480.3	3492.9	3404.3	3296.8	3208.2	3163.9	3201.8	3170.2
67.5°	3087.9	3081.6	3050.0	3208.2	3201.8	3113.3	2942.4	2866.5	2790.5	2803.2	2784.2
70°	2619.7	2670.3	2733.6	2828.5	2822.2	2720.9	2518.4	2461.5	2353.9	2341.3	2309.6
72.5°	2062.8	2151.4	2290.6	2360.3	2303.3	2176.7	2043.9	1948.9	1854.0	1797.1	1816.1
75°	1531.3	1657.9	1733.8	1778.1	1689.5	1619.9	1512.3	1398.4	1284.5	1233.9	1214.9
77.5°	1113.7	1151.7	1221.3	1252.9	1195.9	1126.3	1063.1	949.2	841.6	772.0	753.0
80°	778.3	803.6	854.2	854.2	854.2	822.6	740.3	626.4	556.8	493.6	480.9
82.5°	544.2	569.5	620.1	594.8	588.5	550.5	499.9	411.3	335.4	291.1	278.4
85°	189.8	208.8	253.1	303.7	322.7	316.4	284.7	227.8	177.2	145.5	132.9
87.5°	44.3	44.3	50.6	44.3	44.3	50.6	44.3	44.3	44.3	31.6	25.3
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)