

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: P453560

Luminaire Tested: **GALN-SA4C-760-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453560  
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-SA4C-760-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 1050mA 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: 22762 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

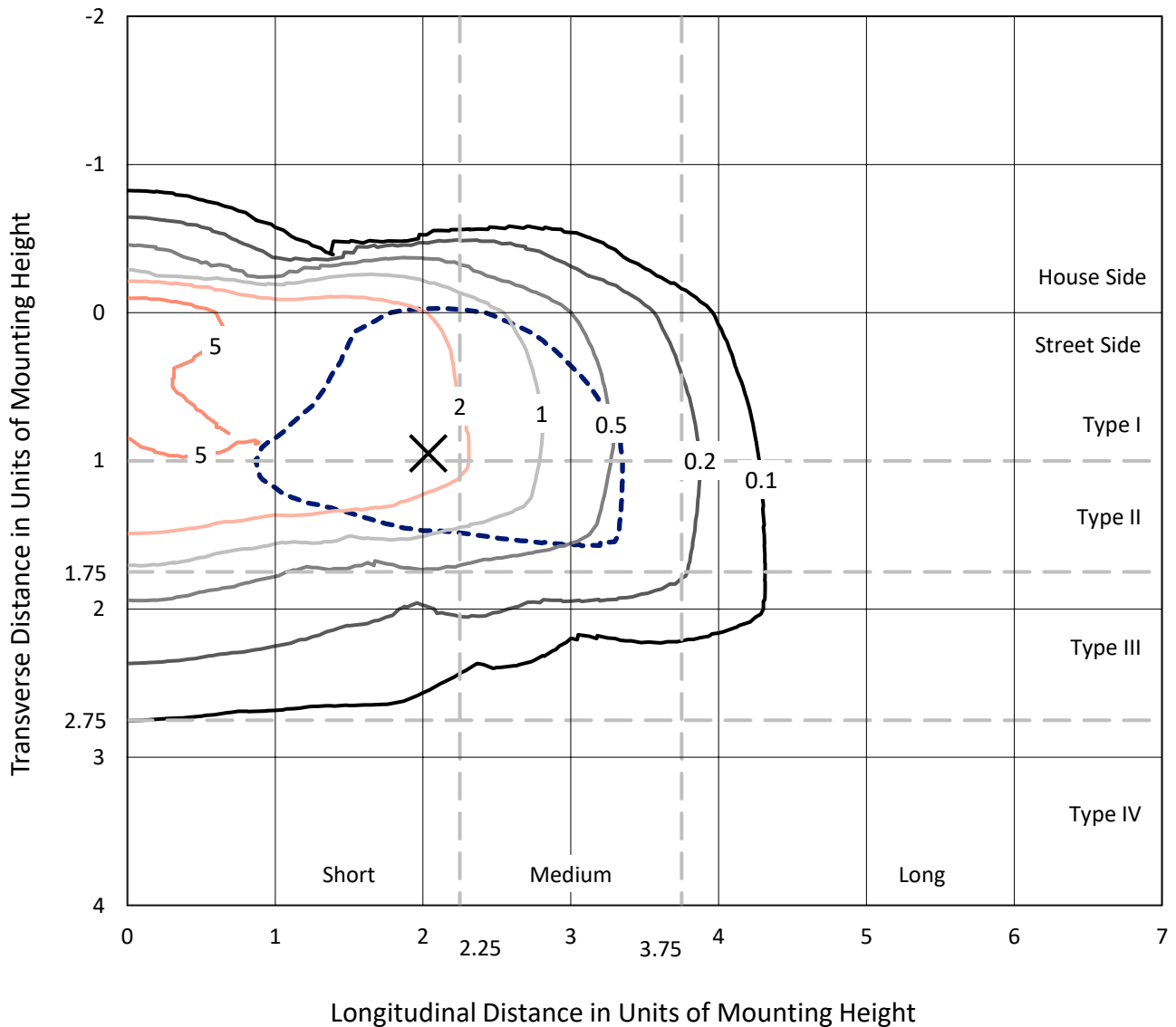
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

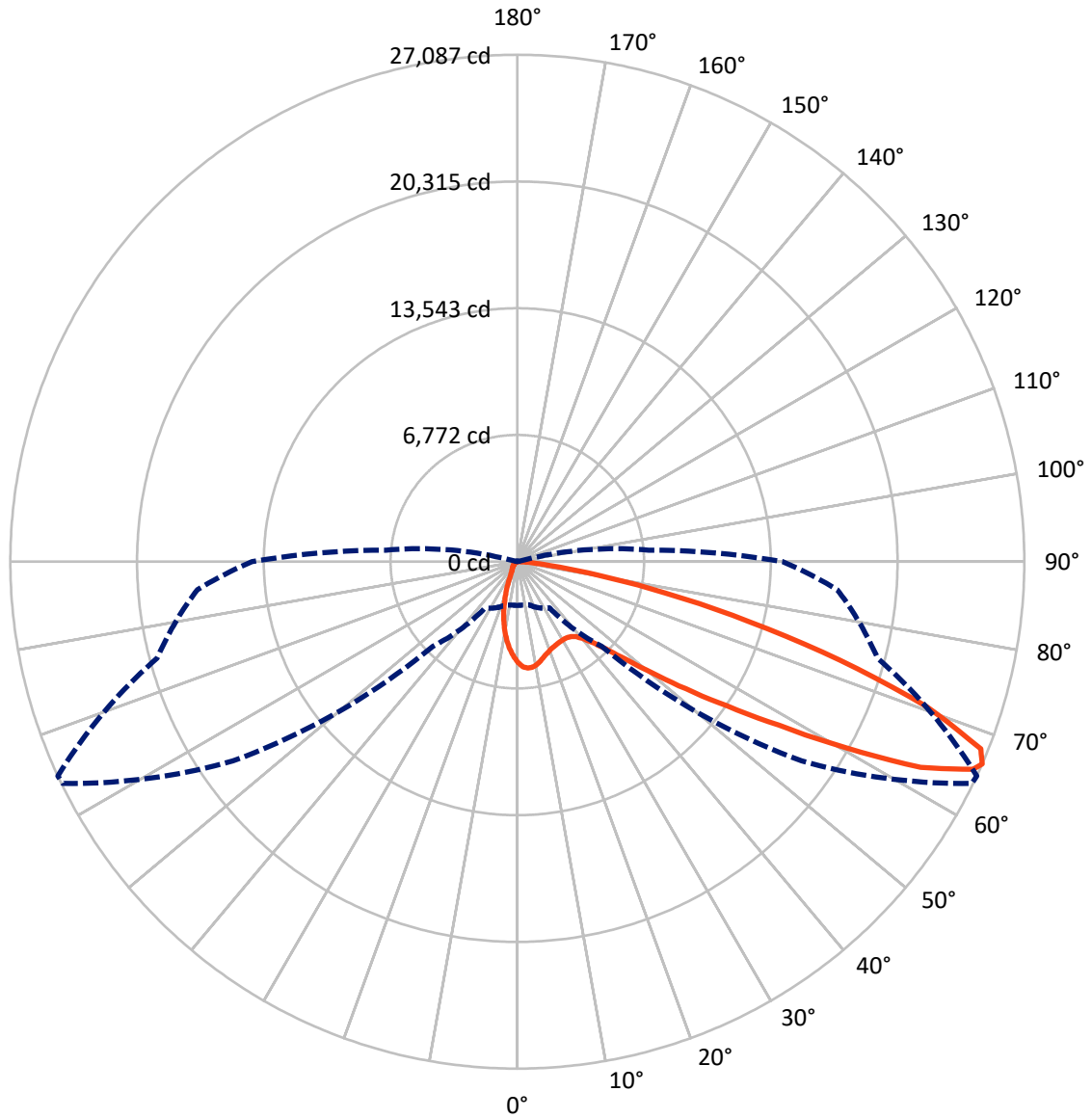
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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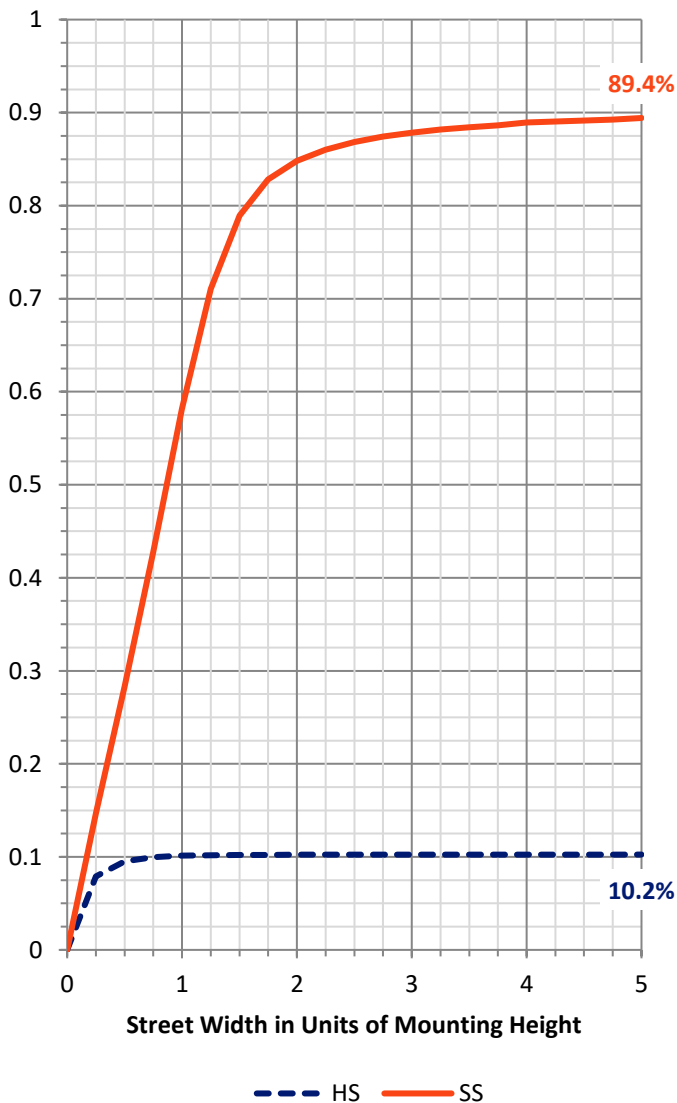
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2353.9	0.0	2353.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	20408.1	0.0	20408.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	22762.0	0.0	22762.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.4	1.9
10°-20°	961.9	4.2
20°-30°	1377.9	6.1
30°-40°	2012.5	8.8
40°-50°	3374.6	14.8
50°-60°	5631.6	24.7
60°-70°	5977.8	26.3
70°-80°	2707.3	11.9
80°-90°	277.0	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°	22762.0	100.0
0°-180°	22762.0	100.0



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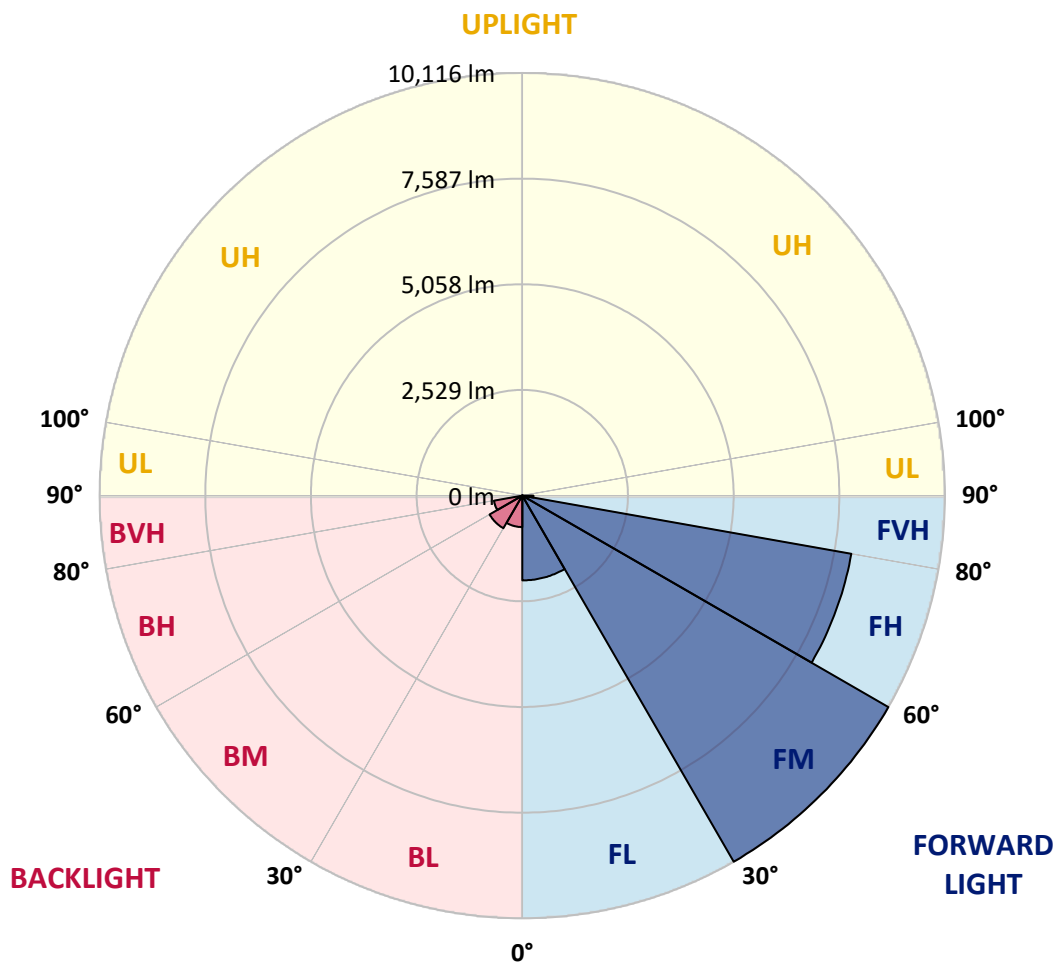
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.2	8.9			
FM (30°-60°)	10115.9	44.4			
FH (60°-80°)	7995.8	35.1			G4/12000
FVH (80°-90°)	268.2	1.2			G3/500
BL (0°-30°)	753.0	3.3	B2/1000		
BM (30°-60°)	902.7	4.0	B1/1000		
BH (60°-80°)	689.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.8	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7
2.5°	5688.3	5694.4	5702.1	5712.9	5720.6	5697.5	5665.2	5628.3	5620.6	5542.2	5446.9
5°	5383.9	5393.1	5460.7	5497.6	5580.7	5656.0	5703.6	5709.8	5706.7	5632.9	5480.7
7.5°	4950.3	4976.5	5042.6	5107.1	5262.4	5405.4	5574.5	5692.9	5700.6	5680.6	5491.5
10°	4598.3	4615.2	4649.0	4776.6	4905.8	5124.1	5360.8	5583.7	5602.2	5682.1	5482.3
12.5°	4323.1	4347.7	4389.2	4487.6	4642.9	4848.9	5117.9	5417.7	5456.1	5652.9	5456.1
15°	4130.9	4143.2	4184.7	4281.6	4432.2	4622.9	4895.0	5244.0	5277.8	5614.5	5451.5
17.5°	4040.2	4054.0	4083.3	4160.1	4284.7	4461.5	4727.4	5104.1	5147.1	5589.9	5468.4
20°	4064.8	4077.1	4078.6	4118.6	4203.2	4352.3	4604.4	4973.4	5028.7	5574.5	5496.1
22.5°	4204.7	4206.2	4187.8	4169.4	4198.6	4306.2	4529.1	4890.4	4947.3	5571.4	5528.4
25°	4413.8	4418.4	4387.7	4323.1	4264.7	4320.0	4512.2	4836.6	4887.3	5563.7	5548.4
27.5°	4702.8	4701.3	4692.1	4584.4	4418.4	4381.5	4526.0	4807.4	4850.4	5542.2	5556.1
30°	5107.1	5094.8	5074.9	4953.4	4699.7	4530.6	4584.4	4788.9	4828.9	5511.5	5536.1
32.5°	5505.3	5551.4	5548.4	5433.1	5116.4	4796.6	4705.9	4813.5	4842.7	5491.5	5506.9
35°	5969.6	5968.1	6086.5	6043.4	5672.9	5136.4	4913.4	4895.0	4918.0	5505.3	5493.0
37.5°	6400.1	6440.0	6624.5	6669.1	6330.9	5616.0	5207.1	5070.2	5077.9	5599.1	5526.8
40°	6936.6	7013.5	7288.7	7437.8	7139.6	6327.8	5640.6	5391.6	5393.1	5829.7	5654.5
42.5°	7628.4	7749.9	8006.6	8255.7	8095.8	7170.3	6290.9	5900.4	5897.4	6235.6	5946.6
45°	8469.4	8553.9	8846.0	9241.1	9139.7	8346.4	7237.9	6689.1	6649.1	6901.3	6464.6
47.5°	9195.0	9310.3	9607.0	10057.5	10518.7	9782.3	8369.4	7772.9	7746.8	7960.5	7353.2
50°	9511.7	9613.2	9925.3	10557.1	11674.8	11667.1	10054.4	9354.9	9310.3	9425.6	8727.7
52.5°	9164.3	9259.6	9574.7	10361.9	12219.0	13963.9	12495.8	11339.6	11285.8	11138.3	10369.6
55°	7974.3	8052.7	8518.6	9422.5	12009.9	15495.2	15859.5	13791.8	13582.7	13009.2	12228.2
57.5°	6349.3	6309.4	6598.4	7648.4	10783.1	16008.6	19312.5	16846.5	16472.9	14626.5	13801.0
60°	4400.0	4522.9	4639.8	5331.6	8108.1	15118.5	21460.2	20686.9	20194.9	16217.7	15307.6
62.5°	3234.6	3316.1	3393.0	3712.8	5097.9	12071.4	21839.9	24631.8	24195.1	17907.3	16745.0
65°	2558.2	2564.3	2595.1	2910.2	3359.2	7849.8	20015.0	26856.3	26744.1	19533.8	17327.7
66°	2330.7	2332.2	2379.9	2718.1	3014.8	6392.4	18553.0	27025.4	27086.9	19924.3	17157.1
67.5°	2037.0	2030.9	2100.0	2442.9	2745.7	4609.0	15936.4	26339.8	26704.1	20224.1	16543.6
70°	1578.9	1571.2	1655.7	2049.3	2529.0	3074.7	10592.5	22616.3	23203.5	19610.7	14637.3
72.5°	1051.6	1057.7	1202.2	1617.3	2413.7	2707.3	6372.4	17204.7	18034.9	16194.7	11514.9
75°	613.4	624.2	788.7	1202.2	2095.4	2581.2	3606.7	12268.2	12798.6	11182.8	7173.4
77.5°	321.3	325.9	441.2	793.3	1606.6	2396.8	2402.9	7837.5	8086.6	5434.6	2839.5
80°	170.6	166.0	236.8	478.1	1105.4	2104.7	1949.4	4149.4	4313.9	1614.2	718.0
82.5°	64.6	70.7	126.1	313.6	653.4	1511.2	1678.8	1834.1	1777.2	355.1	301.3
85°	12.3	15.4	53.8	186.0	329.0	631.9	1237.6	899.4	833.3	133.8	173.7
87.5°	1.5	3.1	15.4	44.6	47.7	213.7	365.9	249.1	215.2	49.2	72.3
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°	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7	5397.7
2.5°	5400.8	5359.3	5220.9	5084.1	4944.2	4818.1	4732.0	4592.1	4556.8	4506.0	4476.8
5°	5390.0	5293.2	5027.2	4736.6	4466.1	4174.0	3951.0	3735.8	3620.5	3562.1	3540.6
7.5°	5359.3	5205.5	4790.4	4335.4	3901.8	3465.2	3085.5	2796.5	2610.5	2482.9	2396.8
10°	5297.8	5085.6	4515.3	3889.5	3234.6	2658.1	2176.9	1811.0	1528.1	1439.0	1442.1
12.5°	5234.7	4951.9	4207.8	3394.5	2582.8	1855.6	1345.2	1056.2	920.9	876.3	867.1
15°	5176.3	4824.3	3906.5	2914.9	1923.3	1202.2	867.1	765.6	728.7	721.0	719.5
17.5°	5145.6	4705.9	3585.1	2366.0	1342.1	816.3	694.9	667.2	656.5	648.8	645.7
20°	5119.4	4602.9	3277.7	1852.5	917.8	668.8	622.6	596.5	578.1	570.4	565.8
22.5°	5101.0	4496.8	2959.4	1434.4	702.6	593.4	551.9	518.1	492.0	482.7	476.6
25°	5073.3	4380.0	2638.1	1048.5	591.9	527.3	479.7	439.7	405.9	389.0	385.9
27.5°	5033.4	4247.8	2286.1	776.4	528.9	468.9	410.5	361.3	327.5	309.0	310.5
30°	4968.8	4109.4	1934.0	616.5	478.1	408.9	345.9	298.2	266.0	252.1	250.6
32.5°	4891.9	3941.8	1611.2	528.9	432.0	355.1	289.0	247.5	222.9	212.2	210.6
35°	4819.7	3772.7	1282.2	475.0	384.3	305.9	242.9	207.5	189.1	179.9	181.4
37.5°	4779.7	3622.0	999.3	432.0	345.9	262.9	209.1	178.3	161.4	153.7	152.2
40°	4805.8	3499.1	794.8	393.6	302.9	226.0	179.9	153.7	136.8	126.1	126.1
42.5°	4928.8	3445.2	641.1	356.7	262.9	195.2	156.8	132.2	113.8	103.0	104.5
45°	5303.9	3502.1	536.5	322.8	226.0	169.1	135.3	109.2	92.2	84.6	83.0
47.5°	5926.6	3715.8	464.3	287.5	193.7	144.5	113.8	90.7	73.8	67.6	66.1
50°	7015.0	4157.1	410.5	252.1	164.5	123.0	93.8	72.3	58.4	52.3	52.3
52.5°	8512.4	5119.4	372.0	212.2	138.4	104.5	76.9	58.4	46.1	41.5	40.0
55°	10077.5	6134.1	352.1	178.3	115.3	86.1	61.5	46.1	35.4	30.7	29.2
57.5°	11582.6	6930.5	329.0	144.5	92.2	66.1	47.7	35.4	24.6	21.5	20.0
60°	13026.1	7574.6	279.8	115.3	72.3	47.7	35.4	24.6	16.9	13.8	13.8
62.5°	14317.5	7949.7	219.8	92.2	55.3	33.8	23.1	18.4	12.3	9.2	9.2
65°	14468.2	7462.4	166.0	70.7	40.0	21.5	13.8	13.8	9.2	6.1	6.1
66°	14165.3	7048.8	146.1	64.6	35.4	18.4	12.3	10.8	7.7	4.6	4.6
67.5°	13488.9	6343.2	126.1	55.3	29.2	13.8	9.2	9.2	6.1	3.1	3.1
70°	11654.8	5180.9	99.9	41.5	21.5	10.8	6.1	6.1	4.6	3.1	3.1
72.5°	8882.9	3868.0	81.5	30.7	15.4	7.7	4.6	4.6	4.6	3.1	3.1
75°	5357.7	2083.1	63.0	23.1	13.8	6.1	3.1	4.6	6.1	4.6	3.1
77.5°	1974.0	708.7	49.2	18.4	10.8	6.1	3.1	3.1	6.1	4.6	4.6
80°	484.3	184.5	35.4	15.4	10.8	6.1	3.1	3.1	6.1	6.1	6.1
82.5°	224.5	78.4	24.6	13.8	10.8	6.1	3.1	3.1	4.6	6.1	6.1
85°	129.1	36.9	20.0	15.4	10.8	6.1	3.1	3.1	4.6	6.1	6.1
87.5°	52.3	18.4	18.4	15.4	12.3	7.7	3.1	3.1	3.1	4.6	4.6
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)