

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: P454372

Luminaire Tested: **GALN-SA5C-727-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454372  
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-SA5C-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 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: 24098 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

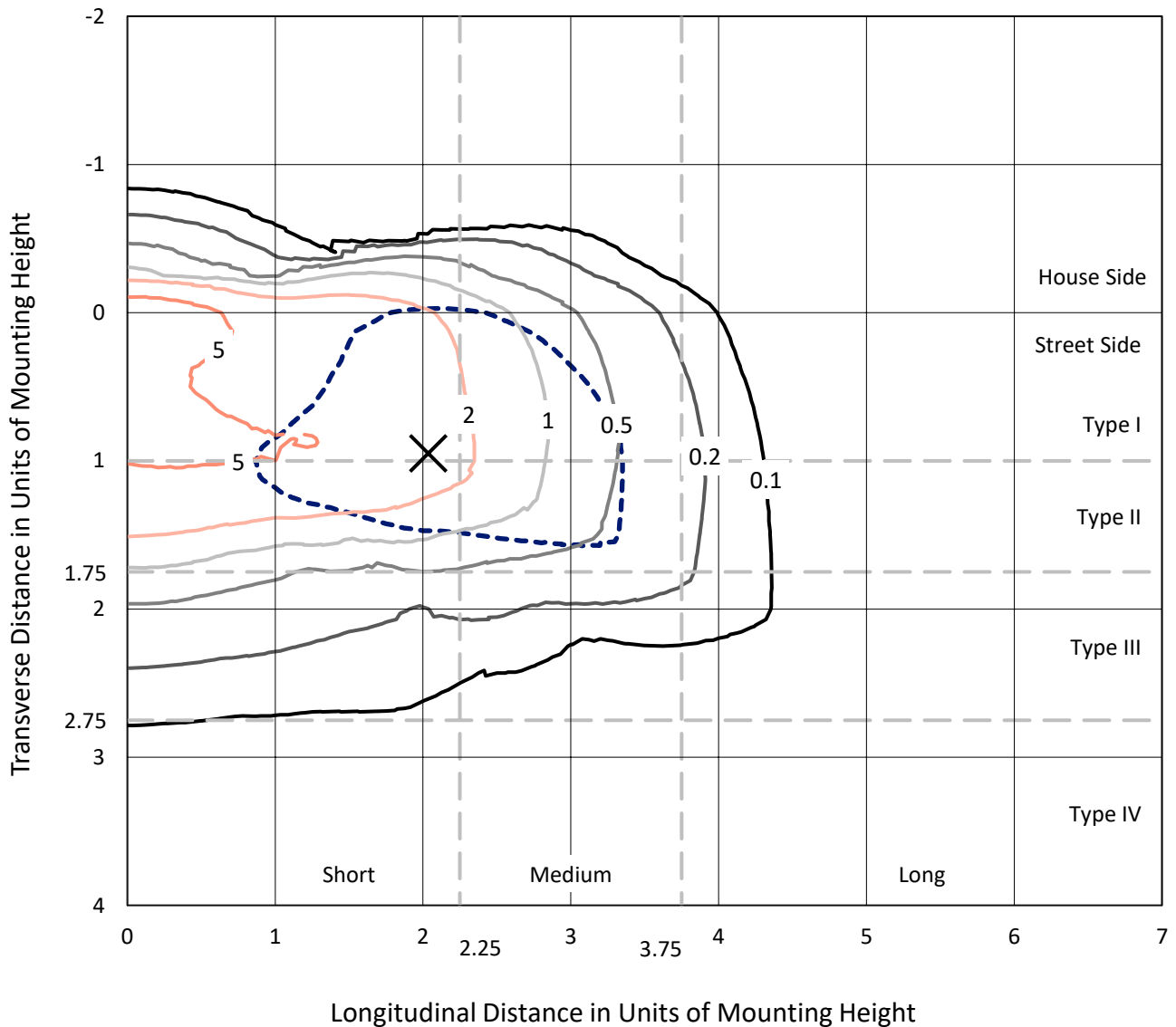
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

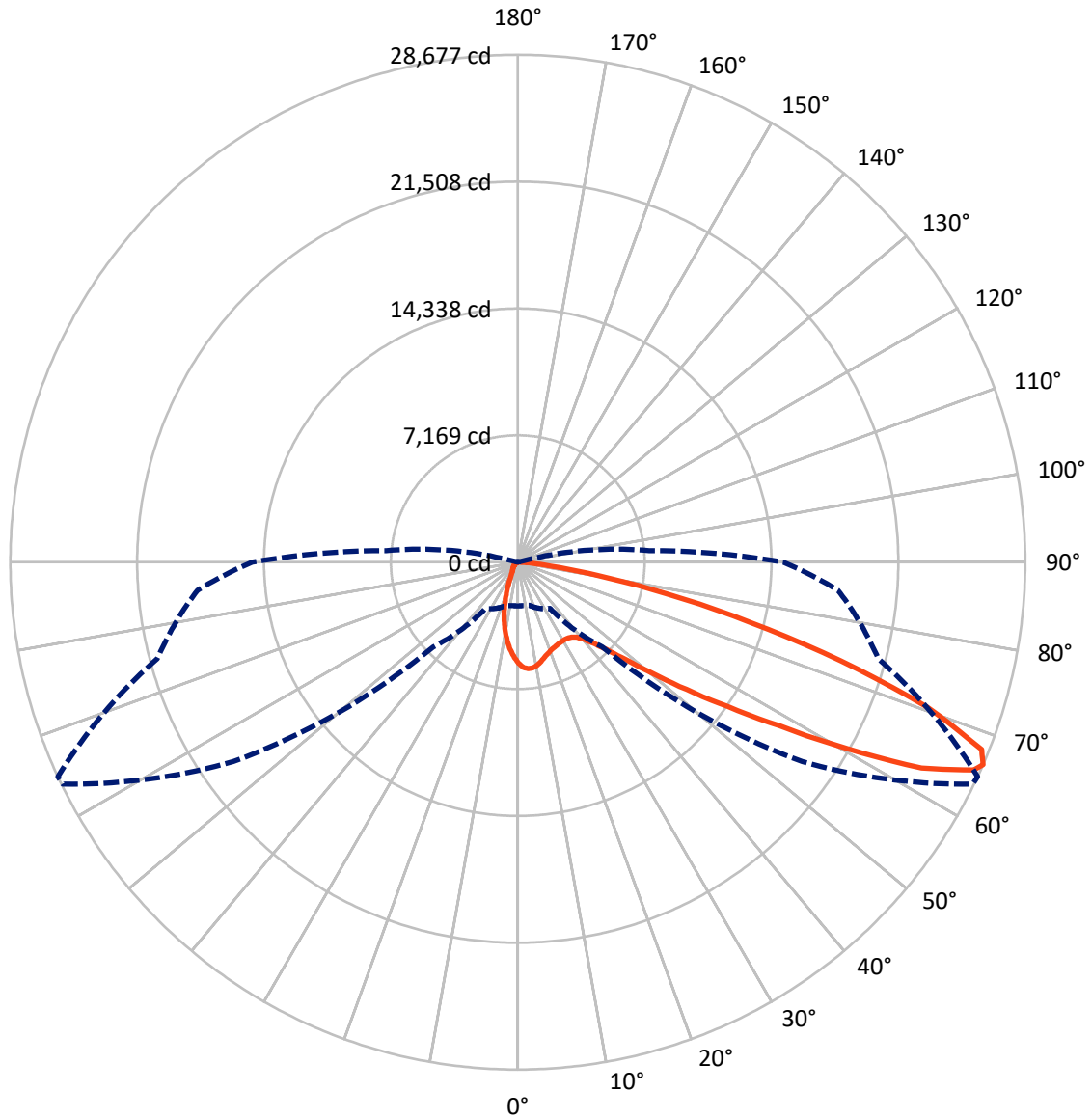
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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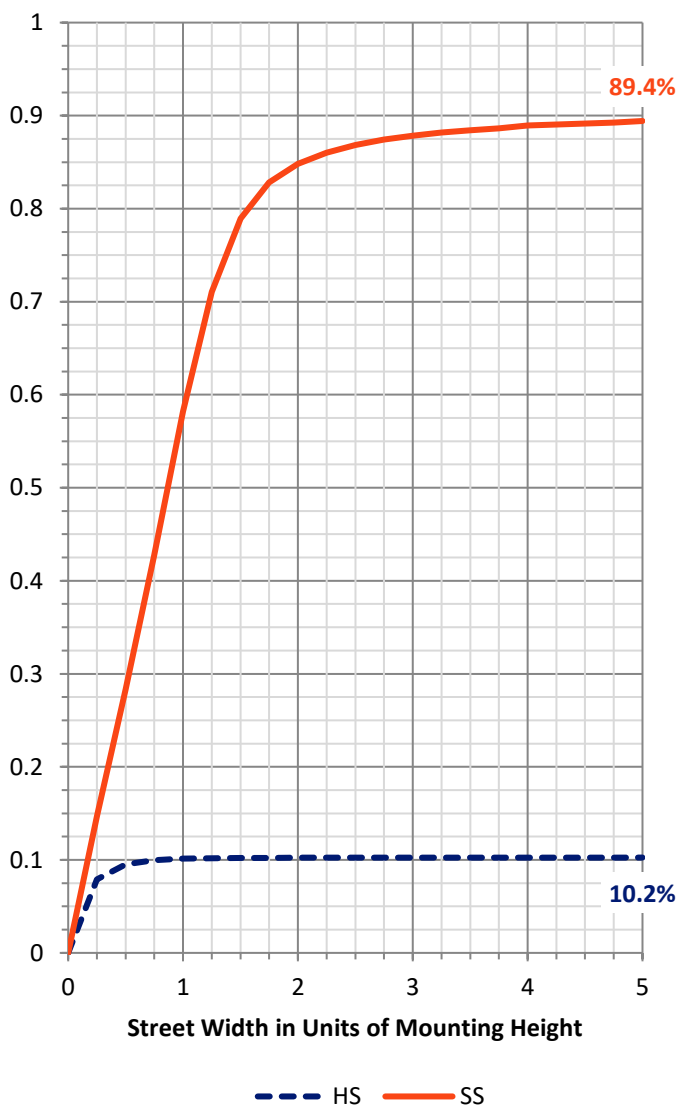
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2492.1	0.0	2492.1
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	21605.9	0.0	21605.9
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	24098.0	0.0	24098.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.4	1.9
10°-20°	1018.3	4.2
20°-30°	1458.7	6.1
30°-40°	2130.6	8.8
40°-50°	3572.6	14.8
50°-60°	5962.2	24.7
60°-70°	6328.7	26.3
70°-80°	2866.2	11.9
80°-90°	293.3	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°	24098.0	100.0
0°-180°	24098.0	100.0

**Coefficient of Utilization**



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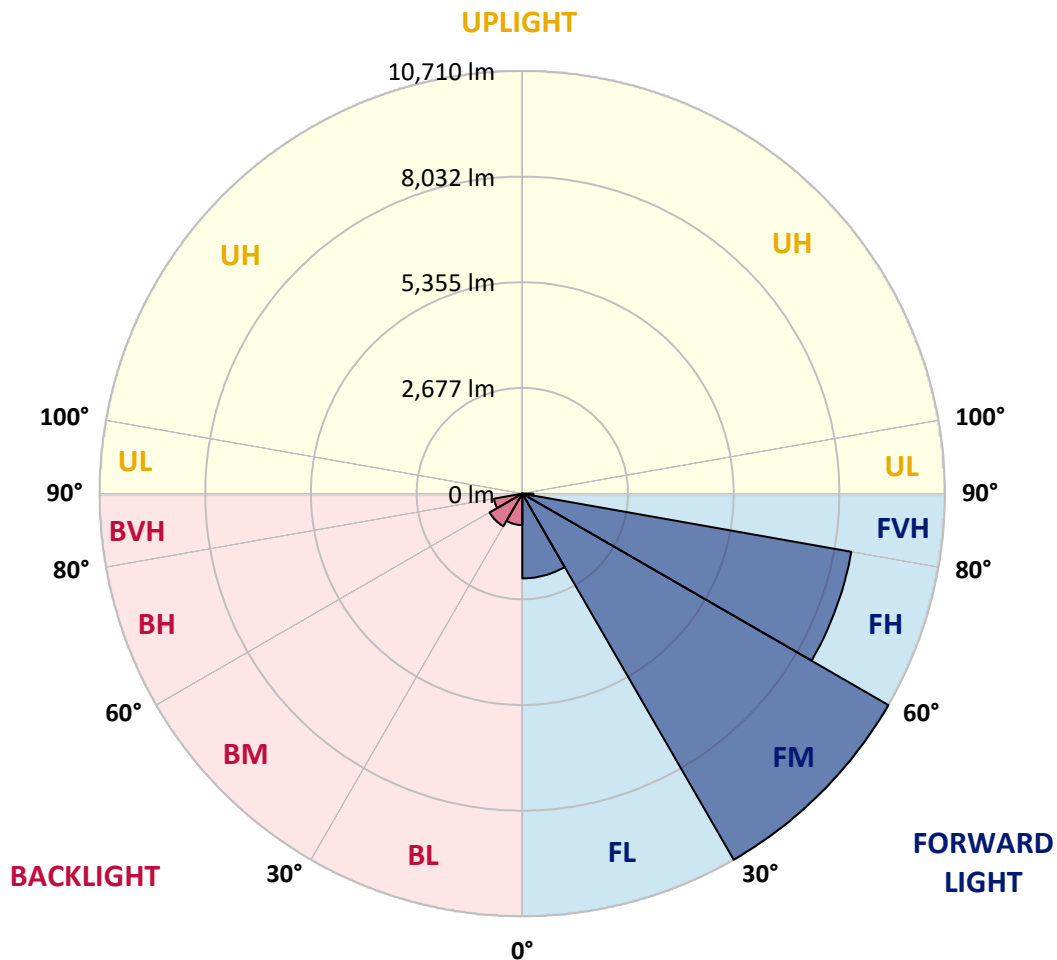
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2147.2	8.9			
FM (30°-60°)	10709.7	44.4			
FH (60°-80°)	8465.1	35.1			G4/12000
FVH (80°-90°)	283.9	1.2			G3/500
BL (0°-30°)	797.2	3.3	B2/1000		
BM (30°-60°)	955.7	4.0	B1/1000		
BH (60°-80°)	729.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.3	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°	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5
2.5°	6022.1	6028.7	6036.8	6048.2	6056.3	6031.9	5997.7	5958.7	5950.5	5867.5	5766.6
5°	5699.9	5709.6	5781.3	5820.3	5908.2	5988.0	6038.4	6044.9	6041.7	5963.5	5802.4
7.5°	5240.9	5268.6	5338.5	5406.9	5571.3	5722.7	5901.7	6027.0	6035.2	6014.0	5813.8
10°	4868.2	4886.1	4921.9	5057.0	5193.7	5424.8	5675.5	5911.5	5931.0	6015.6	5804.0
12.5°	4576.8	4602.9	4646.8	4751.0	4915.4	5133.5	5418.3	5735.7	5776.4	5984.7	5776.4
15°	4373.4	4386.4	4430.3	4532.9	4692.4	4894.2	5182.3	5551.8	5587.6	5944.0	5771.5
17.5°	4277.3	4292.0	4322.9	4404.3	4536.1	4723.3	5004.9	5403.7	5449.2	5918.0	5789.4
20°	4303.4	4316.4	4318.0	4360.4	4449.9	4607.8	4874.7	5265.3	5323.9	5901.7	5818.7
22.5°	4451.5	4453.1	4433.6	4414.1	4445.0	4558.9	4794.9	5177.4	5237.6	5898.4	5852.9
25°	4672.9	4677.7	4645.2	4576.8	4515.0	4573.6	4777.0	5120.4	5174.2	5890.3	5874.0
27.5°	4978.8	4977.2	4967.5	4853.5	4677.7	4638.7	4791.7	5089.5	5135.1	5867.5	5882.2
30°	5406.9	5393.9	5372.7	5244.1	4975.6	4796.6	4853.5	5070.0	5112.3	5835.0	5861.0
32.5°	5828.5	5877.3	5874.0	5752.0	5416.7	5078.1	4982.1	5096.0	5127.0	5813.8	5830.1
35°	6320.0	6318.4	6443.7	6398.1	6005.9	5437.8	5201.8	5182.3	5206.7	5828.5	5815.4
37.5°	6775.7	6818.0	7013.4	7060.6	6702.5	5945.6	5512.7	5367.8	5376.0	5927.7	5851.2
40°	7343.8	7425.1	7716.5	7874.4	7558.6	6699.2	5971.7	5708.0	5709.6	6171.9	5986.3
42.5°	8076.2	8204.8	8476.6	8740.2	8571.0	7591.2	6660.2	6246.8	6243.5	6601.6	6295.6
45°	8966.5	9056.0	9365.2	9783.5	9676.1	8836.3	7662.8	7081.7	7039.4	7306.3	6844.1
47.5°	9734.7	9856.8	10170.9	10647.8	11136.1	10356.5	8860.7	8229.2	8201.5	8427.7	7784.8
50°	10070.0	10177.4	10507.8	11176.8	12360.0	12351.9	10644.5	9904.0	9856.8	9978.9	9239.9
52.5°	9702.2	9803.1	10136.7	10970.1	12936.2	14783.5	13229.2	12005.2	11948.3	11792.0	10978.2
55°	8442.4	8525.4	9018.6	9975.6	12714.9	16404.6	16790.4	14601.3	14379.9	13772.8	12946.0
57.5°	6722.0	6679.7	6985.7	8097.3	11416.0	16948.3	20446.0	17835.3	17439.8	15485.0	14611.0
60°	4658.2	4788.4	4912.1	5644.5	8584.0	16005.9	22719.8	21901.1	21380.2	17169.6	16206.1
62.5°	3424.5	3510.7	3592.1	3930.7	5397.1	12780.0	23121.8	26077.5	25615.3	18958.4	17727.9
65°	2708.3	2714.8	2747.4	3081.1	3556.3	8310.6	21189.8	28432.6	28313.8	20680.4	18344.7
66°	2467.5	2469.1	2519.5	2877.6	3191.7	6767.6	19641.9	28611.7	28676.8	21093.8	18164.1
67.5°	2156.6	2150.1	2223.3	2586.3	2906.9	4879.6	16871.8	27885.8	28271.5	21411.2	17514.7
70°	1671.6	1663.4	1752.9	2169.6	2677.4	3255.2	11214.2	23943.7	24565.5	20761.7	15496.4
72.5°	1113.3	1119.8	1272.8	1712.2	2555.3	2866.2	6746.4	18214.5	19093.4	17145.2	12190.8
75°	649.4	660.8	835.0	1272.8	2218.4	2732.8	3818.4	12988.3	13549.8	11839.2	7594.4
77.5°	340.2	345.1	467.1	839.8	1700.8	2537.4	2543.9	8297.5	8561.2	5753.6	3006.2
80°	180.7	175.8	250.7	506.2	1170.2	2228.2	2063.8	4392.9	4567.1	1709.0	760.1
82.5°	68.4	74.9	133.5	332.0	691.7	1599.9	1777.3	1941.7	1881.5	376.0	319.0
85°	13.0	16.3	57.0	196.9	348.3	668.9	1310.2	952.1	882.2	141.6	183.9
87.5°	1.6	3.3	16.3	47.2	50.5	226.2	387.4	263.7	227.9	52.1	76.5
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°	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5	5714.5
2.5°	5717.8	5673.8	5527.3	5382.5	5234.4	5100.9	5009.8	4861.7	4824.2	4770.5	4739.6
5°	5706.4	5603.8	5322.3	5014.7	4728.2	4419.0	4182.9	3955.1	3833.0	3771.2	3748.4
7.5°	5673.8	5511.1	5071.6	4589.8	4130.9	3668.6	3266.6	2960.6	2763.7	2628.6	2537.4
10°	5608.7	5384.1	4780.3	4117.8	3424.5	2814.1	2304.7	1917.3	1617.8	1523.4	1526.7
12.5°	5542.0	5242.5	4454.8	3593.8	2734.4	1964.5	1424.2	1118.2	974.9	927.7	918.0
15°	5480.1	5107.4	4135.7	3085.9	2036.1	1272.8	918.0	810.5	771.5	763.3	761.7
17.5°	5447.6	4982.1	3795.6	2504.9	1420.9	864.3	735.7	706.4	695.0	686.8	683.6
20°	5419.9	4873.1	3470.1	1961.3	971.7	708.0	659.2	631.5	612.0	603.8	599.0
22.5°	5400.4	4760.7	3133.1	1518.6	743.8	628.3	584.3	548.5	520.8	511.1	504.6
25°	5371.1	4637.0	2793.0	1110.0	626.6	558.3	507.8	465.5	429.7	411.8	408.5
27.5°	5328.8	4497.1	2420.3	821.9	559.9	496.4	434.6	382.5	346.7	327.1	328.8
30°	5260.4	4350.6	2047.5	652.7	506.2	432.9	366.2	315.8	281.6	266.9	265.3
32.5°	5179.0	4173.2	1705.7	559.9	457.4	376.0	306.0	262.0	236.0	224.6	223.0
35°	5102.5	3994.1	1357.4	502.9	406.9	323.9	257.2	219.7	200.2	190.4	192.1
37.5°	5060.2	3834.6	1057.9	457.4	366.2	278.3	221.4	188.8	170.9	162.8	161.1
40°	5087.9	3704.4	841.5	416.7	320.6	239.3	190.4	162.8	144.9	133.5	133.5
42.5°	5218.1	3647.5	678.7	377.6	278.3	206.7	166.0	140.0	120.4	109.0	110.7
45°	5615.2	3707.7	568.0	341.8	239.3	179.0	143.2	115.6	97.7	89.5	87.9
47.5°	6274.4	3933.9	491.5	304.4	205.1	153.0	120.4	96.0	78.1	71.6	70.0
50°	7426.8	4401.0	434.6	266.9	174.2	130.2	99.3	76.5	61.8	55.3	55.3
52.5°	9012.1	5419.9	393.9	224.6	146.5	110.7	81.4	61.8	48.8	43.9	42.3
55°	10669.0	6494.1	372.7	188.8	122.1	91.1	65.1	48.8	37.4	32.6	30.9
57.5°	12262.4	7337.2	348.3	153.0	97.7	70.0	50.5	37.4	26.0	22.8	21.2
60°	13790.7	8019.2	296.2	122.1	76.5	50.5	37.4	26.0	17.9	14.6	14.6
62.5°	15157.9	8416.4	232.7	97.7	58.6	35.8	24.4	19.5	13.0	9.8	9.8
65°	15317.4	7900.4	175.8	74.9	42.3	22.8	14.6	14.6	9.8	6.5	6.5
66°	14996.8	7462.6	154.6	68.4	37.4	19.5	13.0	11.4	8.1	4.9	4.9
67.5°	14280.6	6715.5	133.5	58.6	30.9	14.6	9.8	9.8	6.5	3.3	3.3
70°	12338.9	5485.0	105.8	43.9	22.8	11.4	6.5	6.5	4.9	3.3	3.3
72.5°	9404.3	4095.1	86.3	32.6	16.3	8.1	4.9	4.9	4.9	3.3	3.3
75°	5672.2	2205.4	66.7	24.4	14.6	6.5	3.3	4.9	6.5	4.9	3.3
77.5°	2089.8	750.3	52.1	19.5	11.4	6.5	3.3	3.3	6.5	4.9	4.9
80°	512.7	195.3	37.4	16.3	11.4	6.5	3.3	3.3	6.5	6.5	6.5
82.5°	237.6	83.0	26.0	14.6	11.4	6.5	3.3	3.3	4.9	6.5	6.5
85°	136.7	39.1	21.2	16.3	11.4	6.5	3.3	3.3	4.9	6.5	6.5
87.5°	55.3	19.5	19.5	16.3	13.0	8.1	3.3	3.3	3.3	4.9	4.9
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)