

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: P454401

Luminaire Tested: **GALN-SA5C-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454401  
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-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 26242 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

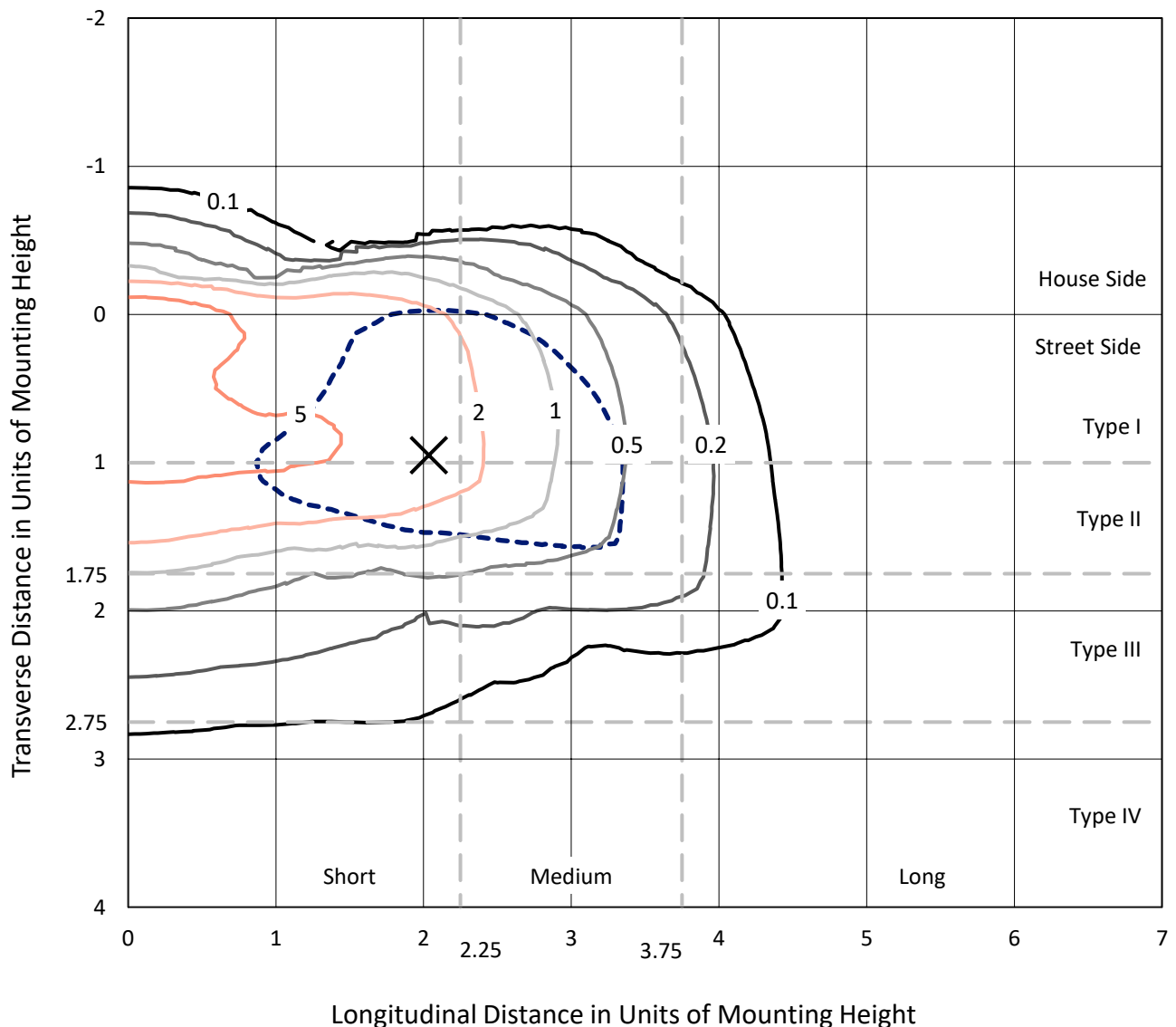
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

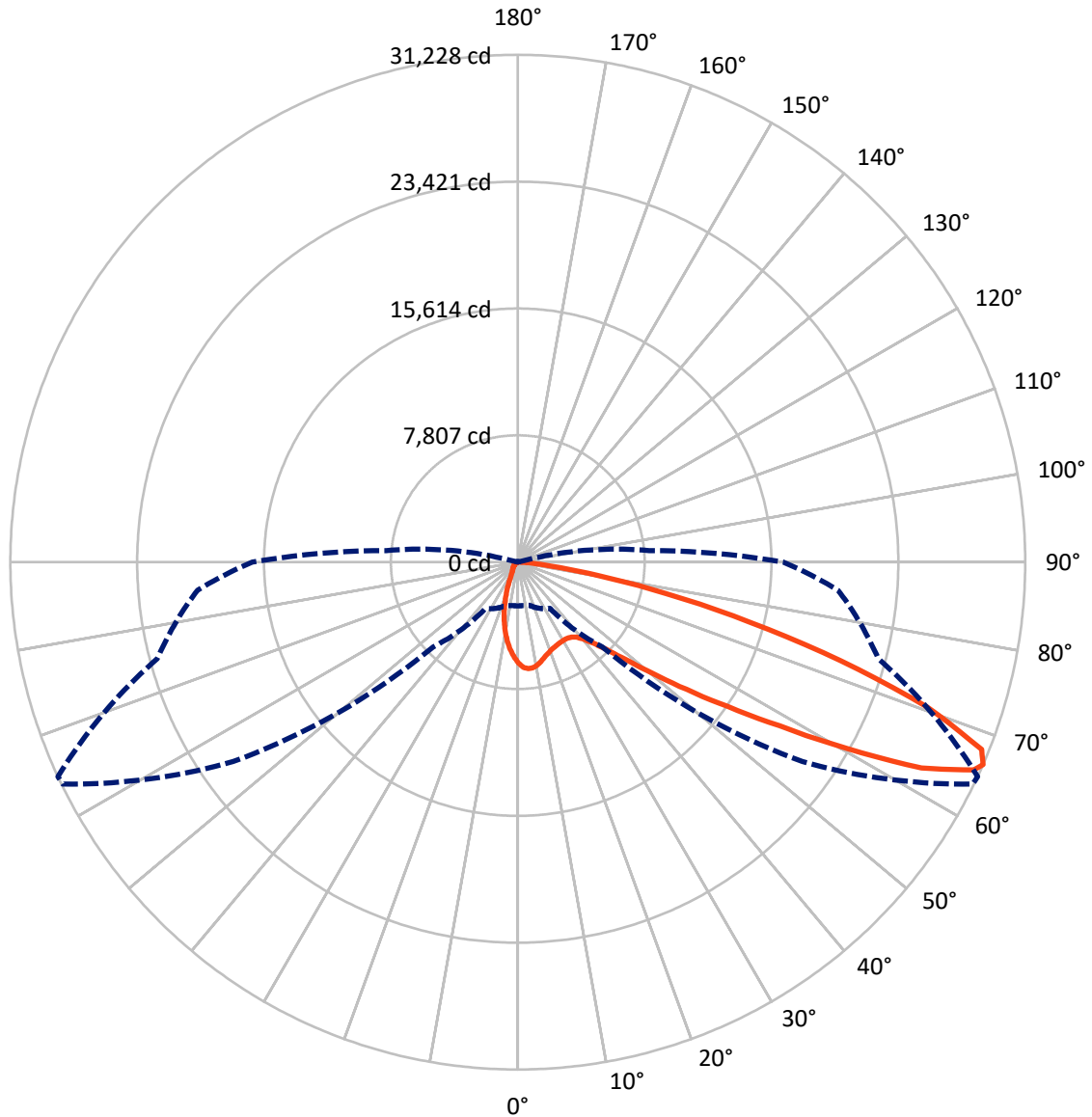
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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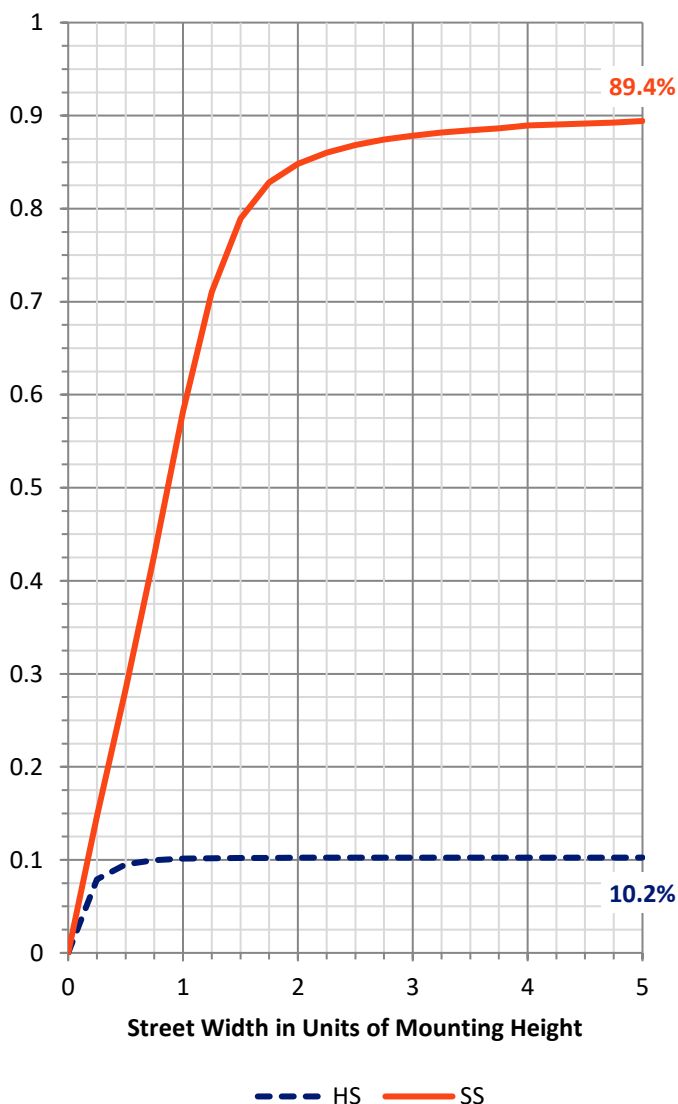
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2713.8	0.0	2713.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	23528.2	0.0	23528.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	26242.0	0.0	26242.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	508.9	1.9
10°-20°	1108.9	4.2
20°-30°	1588.5	6.1
30°-40°	2320.2	8.8
40°-50°	3890.5	14.8
50°-60°	6492.6	24.7
60°-70°	6891.7	26.3
70°-80°	3121.2	11.9
80°-90°	319.4	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°	26242.0	100.0
0°-180°	26242.0	100.0

**Coefficient of Utilization**



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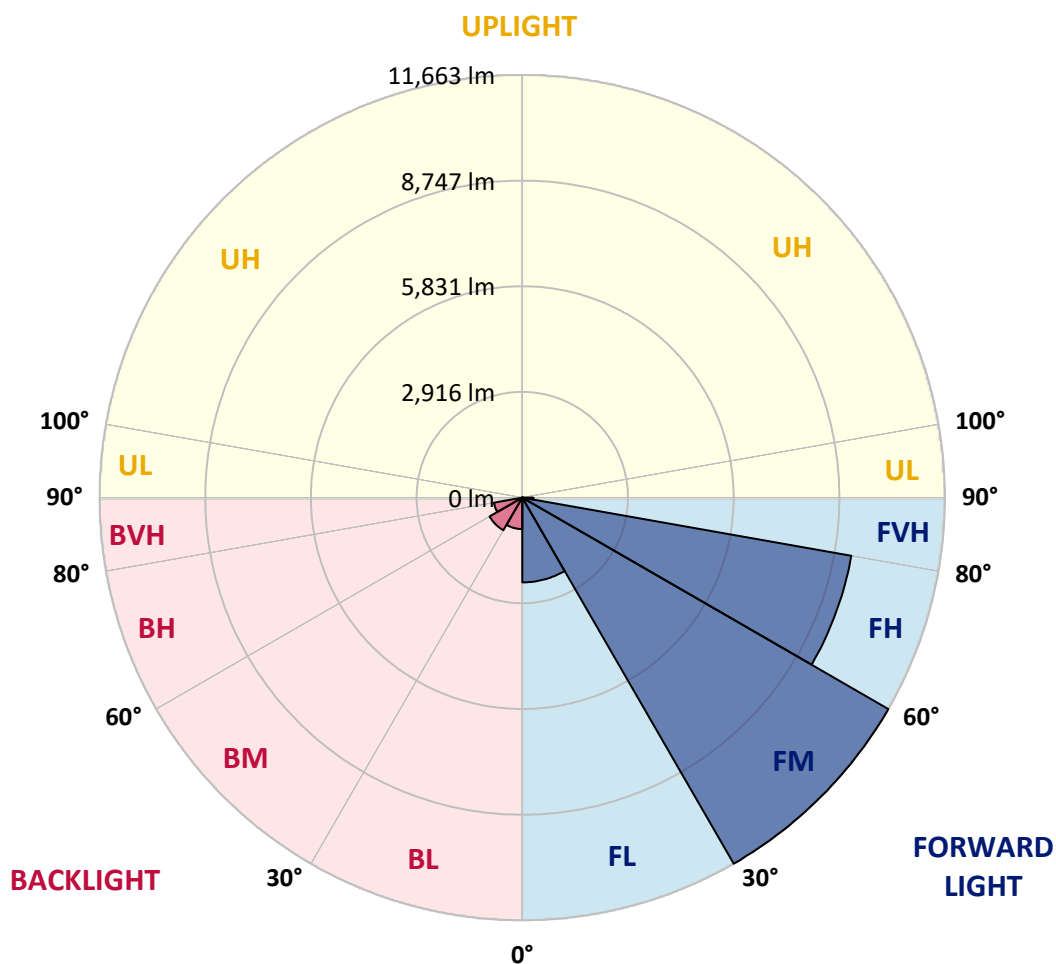
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2338.3	8.9			
FM (30°-60°)	11662.5	44.4			
FH (60°-80°)	9218.2	35.1			G4/12000
FVH (80°-90°)	309.2	1.2			G3/500
BL (0°-30°)	868.1	3.3	B2/1000		
BM (30°-60°)	1040.8	4.0	B2/2500		
BH (60°-80°)	794.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.2	0.0			G1/100
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°	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9
2.5°	6557.9	6565.0	6573.9	6586.3	6595.2	6568.6	6531.3	6488.8	6479.9	6389.6	6279.7
5°	6207.0	6217.6	6295.6	6338.2	6433.9	6520.7	6575.7	6582.7	6579.2	6494.1	6318.7
7.5°	5707.2	5737.3	5813.5	5888.0	6067.0	6231.8	6426.8	6563.2	6572.1	6549.1	6331.1
10°	5301.3	5320.8	5359.8	5506.9	5655.8	5907.5	6180.4	6437.4	6458.7	6550.8	6320.4
12.5°	4984.0	5012.4	5060.2	5173.7	5352.7	5590.2	5900.4	6246.0	6290.3	6517.2	6290.3
15°	4762.5	4776.7	4824.5	4936.2	5109.9	5329.6	5643.4	6045.7	6084.7	6472.9	6285.0
17.5°	4657.9	4673.9	4707.5	4796.2	4939.7	5143.5	5450.2	5884.4	5934.0	6444.5	6304.5
20°	4686.3	4700.4	4702.2	4748.3	4845.8	5017.7	5308.4	5733.8	5797.6	6426.8	6336.4
22.5°	4847.6	4849.3	4828.1	4806.8	4840.5	4964.5	5221.5	5638.0	5703.6	6423.2	6373.6
25°	5088.6	5093.9	5058.5	4984.0	4916.7	4980.5	5202.0	5576.0	5634.5	6414.4	6396.6
27.5°	5421.8	5420.0	5409.4	5285.3	5093.9	5051.4	5218.0	5542.3	5592.0	6389.6	6405.5
30°	5888.0	5873.8	5850.7	5710.7	5418.3	5223.3	5285.3	5521.1	5567.2	6354.1	6382.5
32.5°	6347.0	6400.2	6396.6	6263.7	5898.6	5529.9	5425.4	5549.4	5583.1	6331.1	6348.8
35°	6882.3	6880.5	7017.0	6967.4	6540.2	5921.6	5664.6	5643.4	5670.0	6347.0	6332.8
37.5°	7378.6	7424.6	7637.3	7688.7	7298.8	6474.6	6003.2	5845.4	5854.3	6455.1	6371.8
40°	7997.1	8085.8	8403.0	8574.9	8231.1	7295.3	6503.0	6215.9	6217.6	6721.0	6518.9
42.5°	8794.7	8934.7	9230.7	9517.9	9333.5	8266.5	7252.7	6802.5	6799.0	7188.9	6855.7
45°	9764.2	9861.7	10198.5	10654.0	10537.0	9622.4	8344.5	7711.8	7665.7	7956.4	7453.0
47.5°	10600.8	10733.7	11075.8	11595.1	12126.9	11277.9	9649.0	8961.3	8931.2	9177.6	8477.5
50°	10965.9	11082.9	11442.7	12171.2	13459.7	13450.9	11591.6	10785.1	10733.7	10866.7	10062.0
52.5°	10565.4	10675.3	11038.6	11946.1	14087.1	16098.8	14406.2	13073.3	13011.3	12841.1	11954.9
55°	9193.5	9283.9	9820.9	10863.1	13846.1	17864.2	18284.2	15900.3	15659.3	14998.2	14097.8
57.5°	7320.1	7274.0	7607.2	8817.8	12431.7	18456.1	22265.1	19422.1	18991.4	16862.7	15911.0
60°	5072.6	5214.4	5349.1	6146.7	9347.7	17429.9	24741.1	23849.6	23282.4	18697.2	17647.9
62.5°	3729.2	3823.1	3911.7	4280.4	5877.3	13917.0	25178.9	28397.6	27894.3	20645.1	19305.1
65°	2949.3	2956.4	2991.8	3355.2	3872.7	9049.9	23075.1	30962.3	30832.9	22520.3	19976.9
66°	2687.0	2688.8	2743.7	3133.6	3475.7	7369.7	21389.5	31157.3	31228.2	22970.5	19780.1
67.5°	2348.4	2341.4	2421.1	2816.4	3165.5	5313.7	18372.8	30366.8	30786.8	23316.1	19072.9
70°	1820.3	1811.4	1908.9	2362.6	2915.6	3544.8	12211.9	26074.0	26751.0	22608.9	16875.2
72.5°	1212.3	1219.4	1386.0	1864.6	2782.7	3121.2	7346.7	19835.1	20792.2	18670.6	13275.4
75°	707.2	719.6	909.2	1386.0	2415.8	2975.9	4158.1	14143.9	14755.3	12892.5	8270.1
77.5°	370.4	375.8	508.7	914.6	1852.2	2763.2	2770.3	9035.8	9322.9	6265.5	3273.6
80°	196.7	191.4	273.0	551.2	1274.4	2426.4	2247.4	4783.7	4973.4	1861.0	827.7
82.5°	74.4	81.5	145.3	361.6	753.3	1742.3	1935.5	2114.5	2048.9	409.4	347.4
85°	14.2	17.7	62.0	214.5	379.3	728.5	1426.8	1036.9	960.6	154.2	200.3
87.5°	1.8	3.5	17.7	51.4	54.9	246.4	421.8	287.1	248.1	56.7	83.3
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°	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9	6222.9
2.5°	6226.5	6178.6	6019.1	5861.4	5700.1	5554.7	5455.5	5294.2	5253.4	5194.9	5161.3
5°	6214.1	6102.4	5795.8	5460.8	5148.9	4812.1	4555.1	4307.0	4174.0	4106.7	4081.9
7.5°	6178.6	6001.4	5522.8	4998.2	4498.4	3995.0	3557.2	3224.0	3009.6	2862.4	2763.2
10°	6107.7	5863.1	5205.6	4484.2	3729.2	3064.5	2509.7	2087.9	1761.8	1659.0	1662.5
12.5°	6035.1	5708.9	4851.1	3913.5	2977.7	2139.3	1550.9	1217.6	1061.7	1010.3	999.6
15°	5967.7	5561.8	4503.7	3360.5	2217.3	1386.0	999.6	882.7	840.1	831.3	829.5
17.5°	5932.3	5425.4	4133.3	2727.7	1547.3	941.2	801.1	769.2	756.8	748.0	744.4
20°	5902.1	5306.6	3778.8	2135.8	1058.1	771.0	717.8	687.7	666.4	657.6	652.2
22.5°	5880.9	5184.3	3411.9	1653.7	810.0	684.2	636.3	597.3	567.2	556.5	549.4
25°	5849.0	5049.6	3041.5	1208.8	682.4	607.9	553.0	506.9	467.9	448.4	444.9
27.5°	5802.9	4897.2	2635.6	895.1	609.7	540.6	473.2	416.5	377.5	356.3	358.0
30°	5728.4	4737.7	2229.7	710.7	551.2	471.5	398.8	343.8	306.6	290.7	288.9
32.5°	5639.8	4544.5	1857.5	609.7	498.0	409.4	333.2	285.4	257.0	244.6	242.8
35°	5556.5	4349.5	1478.2	547.7	443.1	352.7	280.0	239.3	218.0	207.4	209.1
37.5°	5510.4	4175.8	1152.1	498.0	398.8	303.1	241.0	205.6	186.1	177.2	175.5
40°	5540.6	4034.0	916.3	453.7	349.2	260.5	207.4	177.2	157.7	145.3	145.3
42.5°	5682.4	3972.0	739.1	411.2	303.1	225.1	180.8	152.4	131.2	118.8	120.5
45°	6114.8	4037.6	618.6	372.2	260.5	195.0	156.0	125.8	106.3	97.5	95.7
47.5°	6832.7	4283.9	535.3	331.4	223.3	166.6	131.2	104.6	85.1	78.0	76.2
50°	8087.5	4792.6	473.2	290.7	189.6	141.8	108.1	83.3	67.4	60.3	60.3
52.5°	9813.9	5902.1	428.9	244.6	159.5	120.5	88.6	67.4	53.2	47.9	46.1
55°	11618.2	7071.9	405.9	205.6	132.9	99.3	70.9	53.2	40.8	35.4	33.7
57.5°	13353.4	7990.0	379.3	166.6	106.3	76.2	54.9	40.8	28.4	24.8	23.0
60°	15017.7	8732.7	322.6	132.9	83.3	54.9	40.8	28.4	19.5	16.0	16.0
62.5°	16506.5	9165.2	253.5	106.3	63.8	39.0	26.6	21.3	14.2	10.6	10.6
65°	16680.2	8603.3	191.4	81.5	46.1	24.8	16.0	16.0	10.6	7.1	7.1
66°	16331.0	8126.5	168.4	74.4	40.8	21.3	14.2	12.4	8.9	5.3	5.3
67.5°	15551.2	7313.0	145.3	63.8	33.7	16.0	10.6	10.6	7.1	3.5	3.5
70°	13436.7	5973.0	115.2	47.9	24.8	12.4	7.1	7.1	5.3	3.5	3.5
72.5°	10241.0	4459.4	93.9	35.4	17.7	8.9	5.3	5.3	5.3	3.5	3.5
75°	6176.9	2401.6	72.7	26.6	16.0	7.1	3.5	5.3	7.1	5.3	3.5
77.5°	2275.8	817.1	56.7	21.3	12.4	7.1	3.5	3.5	7.1	5.3	5.3
80°	558.3	212.7	40.8	17.7	12.4	7.1	3.5	3.5	7.1	7.1	7.1
82.5°	258.8	90.4	28.4	16.0	12.4	7.1	3.5	3.5	5.3	7.1	7.1
85°	148.9	42.5	23.0	17.7	12.4	7.1	3.5	3.5	5.3	7.1	7.1
87.5°	60.3	21.3	21.3	17.7	14.2	8.9	3.5	3.5	3.5	5.3	5.3
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)