

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: P454169

Luminaire Tested: **GALN-SA5B-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454169  
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-SA5B-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA 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: 21239 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

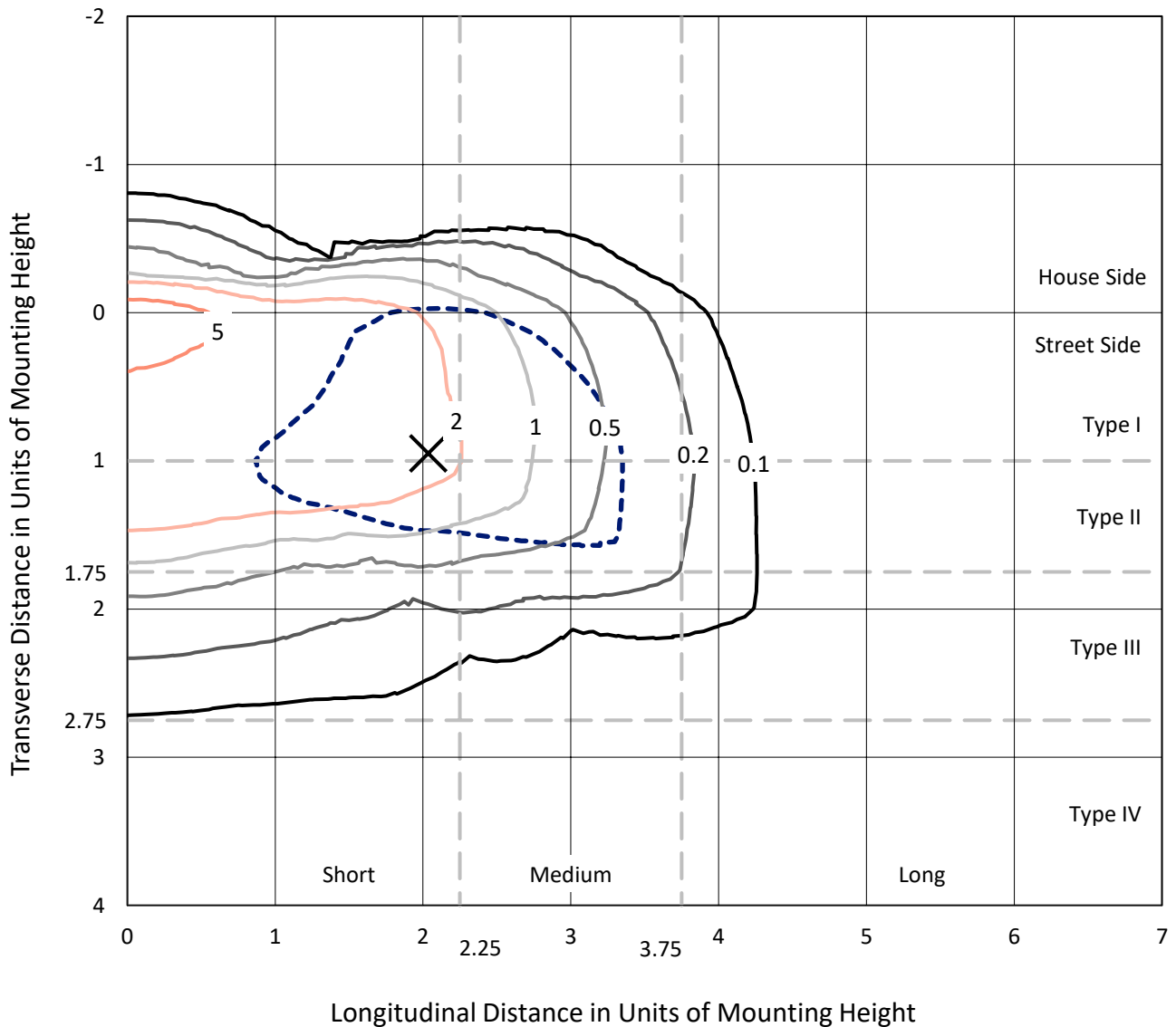
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

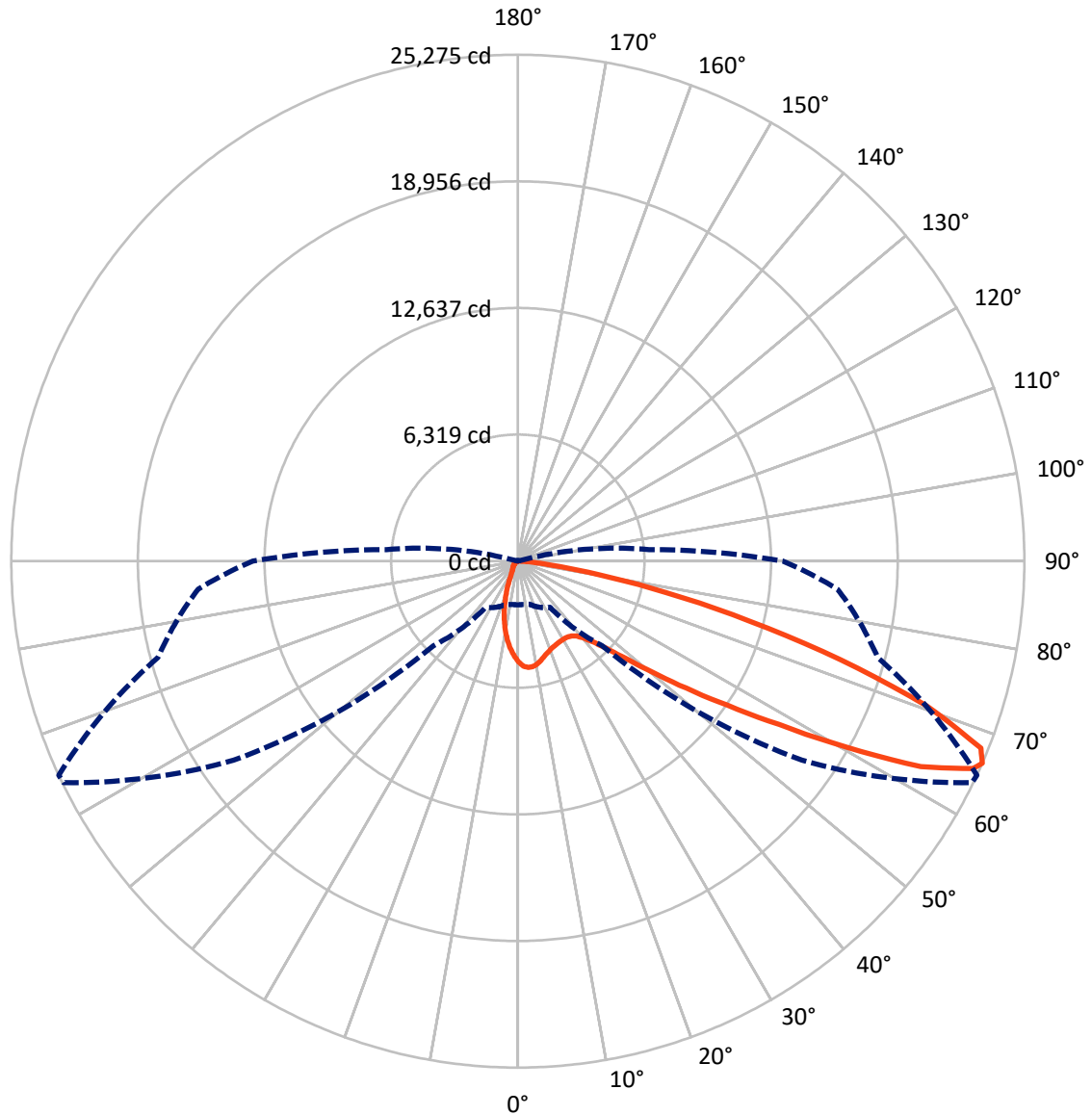
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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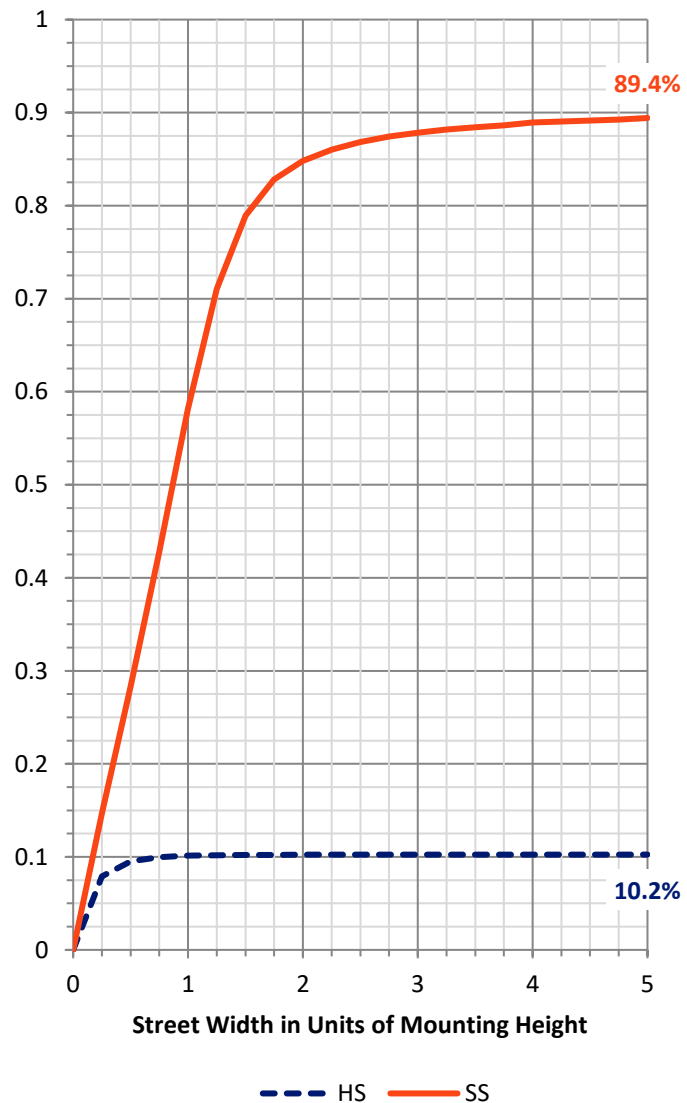
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2196.4	0.0	2196.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	19042.6	0.0	19042.6
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	21239.0	0.0	21239.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.9	1.9
10°-20°	897.5	4.2
20°-30°	1285.7	6.1
30°-40°	1877.8	8.8
40°-50°	3148.8	14.8
50°-60°	5254.8	24.7
60°-70°	5577.8	26.3
70°-80°	2526.2	11.9
80°-90°	258.5	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°	21239.0	100.0
0°-180°	21239.0	100.0



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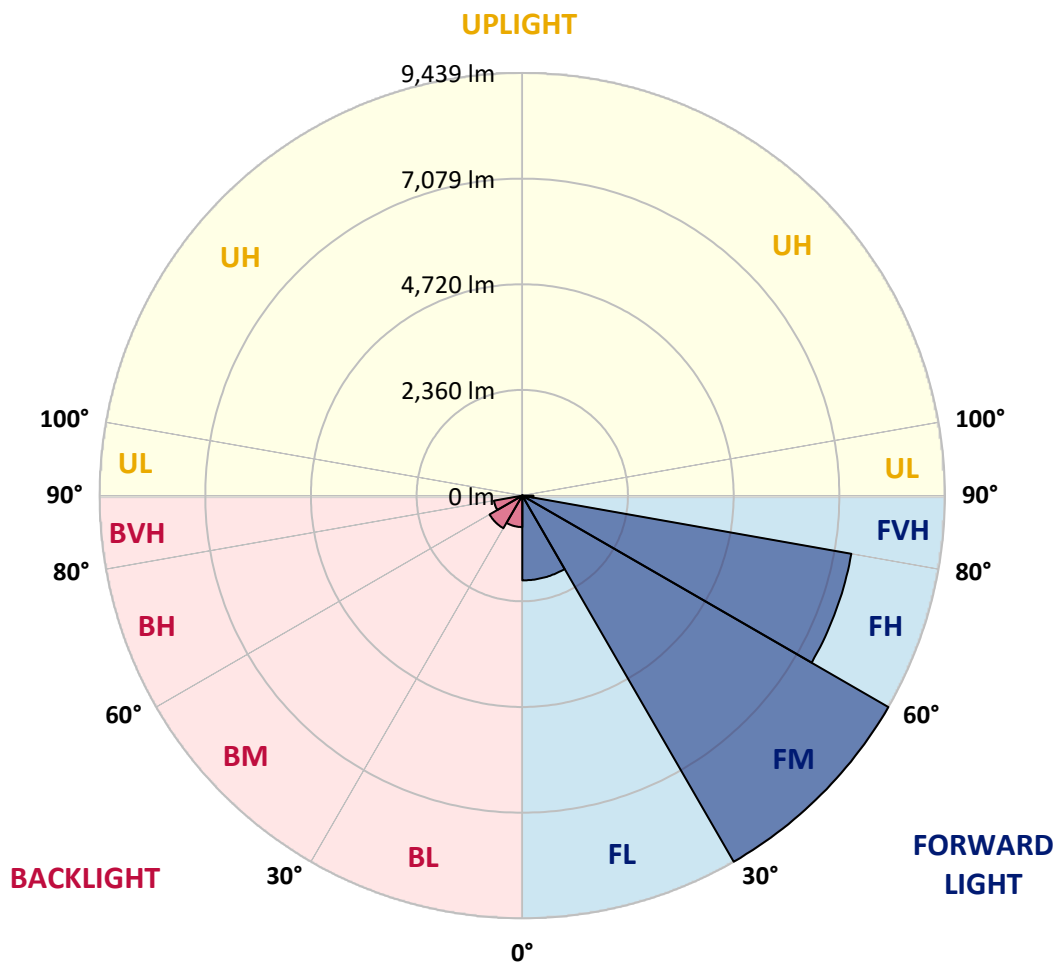
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.5	8.9			
FM (30°-60°)	9439.1	44.4			
FH (60°-80°)	7460.8	35.1			G3/7500
FVH (80°-90°)	250.2	1.2			G3/500
BL (0°-30°)	702.6	3.3	B2/1000		
BM (30°-60°)	842.3	4.0	B1/1000		
BH (60°-80°)	643.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.2	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6
2.5°	5307.7	5313.4	5320.6	5330.6	5337.8	5316.3	5286.2	5251.7	5244.6	5171.4	5082.5
5°	5023.6	5032.2	5095.4	5129.8	5207.3	5277.5	5322.0	5327.8	5324.9	5256.0	5114.0
7.5°	4619.1	4643.5	4705.2	4765.4	4910.3	5043.7	5201.5	5312.0	5319.1	5300.5	5124.1
10°	4290.6	4306.4	4337.9	4457.0	4577.5	4781.2	5002.1	5210.1	5227.3	5301.9	5115.4
12.5°	4033.8	4056.8	4095.5	4187.3	4332.2	4524.4	4775.5	5055.2	5091.1	5274.7	5091.1
15°	3854.5	3866.0	3904.7	3995.1	4135.7	4313.6	4567.5	4893.1	4924.7	5238.8	5086.8
17.5°	3769.9	3782.8	3810.0	3881.8	3998.0	4162.9	4411.1	4762.6	4802.7	5215.9	5102.5
20°	3792.8	3804.3	3805.7	3843.0	3921.9	4061.1	4296.3	4640.6	4692.3	5201.5	5128.4
22.5°	3923.4	3924.8	3907.6	3890.4	3917.6	4018.1	4226.1	4563.2	4616.2	5198.6	5158.5
25°	4118.5	4122.8	4094.1	4033.8	3979.3	4031.0	4210.3	4513.0	4560.3	5191.5	5177.1
27.5°	4388.2	4386.7	4378.1	4277.7	4122.8	4088.3	4223.2	4485.7	4525.9	5171.4	5184.3
30°	4765.4	4754.0	4735.3	4622.0	4385.3	4227.5	4277.7	4468.5	4505.8	5142.7	5165.7
32.5°	5137.0	5180.0	5177.1	5069.5	4774.0	4475.7	4391.0	4491.4	4518.7	5124.1	5138.4
35°	5570.2	5568.8	5679.2	5639.0	5293.3	4792.7	4584.7	4567.5	4589.0	5137.0	5125.5
37.5°	5971.8	6009.1	6181.3	6222.9	5907.3	5240.3	4858.7	4731.0	4738.2	5224.5	5157.0
40°	6472.5	6544.2	6801.0	6940.1	6661.8	5904.4	5263.2	5030.8	5032.2	5439.6	5276.1
42.5°	7118.0	7231.3	7470.9	7703.3	7554.1	6690.5	5870.0	5505.6	5502.8	5818.4	5548.7
45°	7902.7	7981.6	8254.1	8622.8	8528.1	7787.9	6753.7	6241.5	6204.2	6439.5	6032.1
47.5°	8579.8	8687.4	8964.2	9384.5	9814.9	9127.8	7809.5	7252.9	7228.5	7427.9	6861.2
50°	8875.3	8970.0	9261.2	9850.8	10893.6	10886.5	9381.7	8729.0	8687.4	8795.0	8143.7
52.5°	8551.1	8640.0	8934.1	9668.6	11401.5	13029.6	11659.7	10580.9	10530.7	10393.0	9675.7
55°	7440.8	7513.9	7948.6	8792.1	11206.4	14458.4	14798.4	12869.0	12673.9	12138.8	11410.1
57.5°	5924.5	5887.2	6156.9	7136.7	10061.6	14937.5	18020.3	15719.3	15370.7	13647.9	12877.6
60°	4105.6	4220.3	4329.3	4974.9	7565.6	14106.9	20024.3	19302.7	18843.7	15132.6	14283.4
62.5°	3018.2	3094.2	3166.0	3464.3	4756.8	11263.7	20378.6	22983.7	22576.3	16709.1	15624.6
65°	2387.0	2392.8	2421.4	2715.5	3134.4	7324.6	18675.8	25059.4	24954.7	18226.8	16168.3
66°	2174.7	2176.1	2220.6	2536.2	2813.1	5964.7	17311.6	25217.2	25274.6	18591.2	16009.1
67.5°	1900.7	1895.0	1959.5	2279.4	2562.0	4300.6	14870.1	24577.4	24917.4	18870.9	15436.7
70°	1473.2	1466.1	1545.0	1912.2	2359.8	2869.0	9883.7	21103.0	21651.0	18298.6	13657.9
72.5°	981.2	986.9	1121.8	1509.1	2252.2	2526.2	5946.0	16053.6	16828.2	15111.1	10744.4
75°	572.4	582.4	735.9	1121.8	1955.2	2408.5	3365.4	11447.4	11942.3	10434.6	6693.4
77.5°	299.8	304.1	411.7	740.2	1499.1	2236.4	2242.1	7313.1	7545.5	5071.0	2649.5
80°	159.2	154.9	220.9	446.1	1031.4	1963.8	1819.0	3871.7	4025.2	1506.2	669.9
82.5°	60.2	66.0	117.6	292.6	609.7	1410.1	1566.5	1711.4	1658.3	331.4	281.2
85°	11.5	14.3	50.2	173.6	307.0	589.6	1154.8	839.2	777.5	124.8	162.1
87.5°	1.4	2.9	14.3	41.6	44.5	199.4	341.4	232.4	200.8	45.9	67.4
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°	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6	5036.6
2.5°	5039.4	5000.7	4871.6	4743.9	4613.4	4495.7	4415.4	4284.9	4251.9	4204.5	4177.3
5°	5029.4	4939.0	4690.8	4419.7	4167.2	3894.7	3686.7	3485.8	3378.3	3323.8	3303.7
7.5°	5000.7	4857.2	4469.9	4045.3	3640.8	3233.4	2879.1	2609.4	2435.8	2316.7	2236.4
10°	4943.3	4745.3	4213.1	3629.3	3018.2	2480.3	2031.3	1689.8	1425.9	1342.7	1345.6
12.5°	4884.5	4620.5	3926.2	3167.4	2410.0	1731.4	1255.2	985.5	859.3	817.7	809.1
15°	4830.0	4501.5	3645.1	2719.8	1794.6	1121.8	809.1	714.4	680.0	672.8	671.3
17.5°	4801.3	4391.0	3345.3	2207.7	1252.3	761.7	648.4	622.6	612.5	605.4	602.5
20°	4776.9	4294.9	3058.4	1728.6	856.4	624.0	581.0	556.6	539.4	532.2	527.9
22.5°	4759.7	4195.9	2761.4	1338.4	655.6	553.7	515.0	483.4	459.0	450.4	444.7
25°	4733.9	4086.9	2461.6	978.3	552.3	492.0	447.6	410.3	378.7	362.9	360.1
27.5°	4696.6	3963.5	2133.1	724.4	493.5	437.5	383.0	337.1	305.5	288.3	289.8
30°	4636.3	3834.4	1804.6	575.2	446.1	381.6	322.8	278.3	248.2	235.3	233.8
32.5°	4564.6	3678.1	1503.4	493.5	403.1	331.4	269.7	231.0	208.0	198.0	196.5
35°	4497.2	3520.3	1196.4	443.3	358.6	285.5	226.7	193.7	176.4	167.8	169.3
37.5°	4459.9	3379.7	932.4	403.1	322.8	245.3	195.1	166.4	150.6	143.5	142.0
40°	4484.3	3264.9	741.6	367.2	282.6	210.9	167.8	143.5	127.7	117.6	117.6
42.5°	4599.0	3214.7	598.2	332.8	245.3	182.2	146.3	123.4	106.2	96.1	97.5
45°	4949.0	3267.8	500.6	301.2	210.9	157.8	126.2	101.8	86.1	78.9	77.5
47.5°	5530.0	3467.2	433.2	268.3	180.7	134.8	106.2	84.6	68.9	63.1	61.7
50°	6545.7	3878.9	383.0	235.3	153.5	114.8	87.5	67.4	54.5	48.8	48.8
52.5°	7942.9	4776.9	347.2	198.0	129.1	97.5	71.7	54.5	43.0	38.7	37.3
55°	9403.2	5723.7	328.5	166.4	107.6	80.3	57.4	43.0	33.0	28.7	27.3
57.5°	10807.6	6466.8	307.0	134.8	86.1	61.7	44.5	33.0	23.0	20.1	18.6
60°	12154.6	7067.8	261.1	107.6	67.4	44.5	33.0	23.0	15.8	12.9	12.9
62.5°	13359.6	7417.8	205.1	86.1	51.6	31.6	21.5	17.2	11.5	8.6	8.6
65°	13500.1	6963.1	154.9	66.0	37.3	20.1	12.9	12.9	8.6	5.7	5.7
66°	13217.5	6577.2	136.3	60.2	33.0	17.2	11.5	10.0	7.2	4.3	4.3
67.5°	12586.4	5918.8	117.6	51.6	27.3	12.9	8.6	8.6	5.7	2.9	2.9
70°	10875.0	4834.3	93.2	38.7	20.1	10.0	5.7	5.7	4.3	2.9	2.9
72.5°	8288.6	3609.2	76.0	28.7	14.3	7.2	4.3	4.3	4.3	2.9	2.9
75°	4999.3	1943.8	58.8	21.5	12.9	5.7	2.9	4.3	5.7	4.3	2.9
77.5°	1841.9	661.3	45.9	17.2	10.0	5.7	2.9	2.9	5.7	4.3	4.3
80°	451.9	172.1	33.0	14.3	10.0	5.7	2.9	2.9	5.7	5.7	5.7
82.5°	209.4	73.2	23.0	12.9	10.0	5.7	2.9	2.9	4.3	5.7	5.7
85°	120.5	34.4	18.6	14.3	10.0	5.7	2.9	2.9	4.3	5.7	5.7
87.5°	48.8	17.2	17.2	14.3	11.5	7.2	2.9	2.9	2.9	4.3	4.3
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)