

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: P457593

Luminaire Tested: **GALN-SA9A-722-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-722-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25211 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

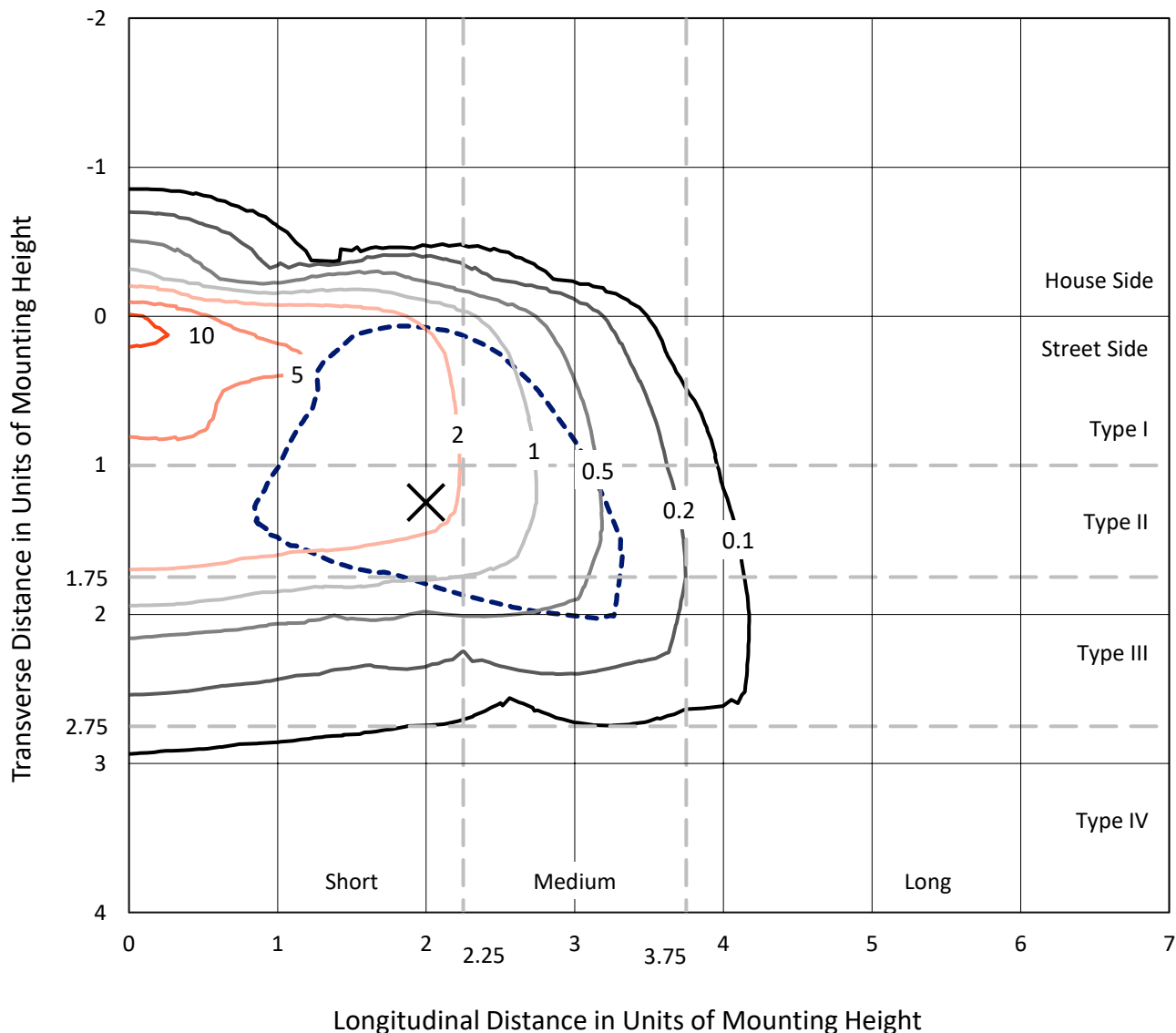
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

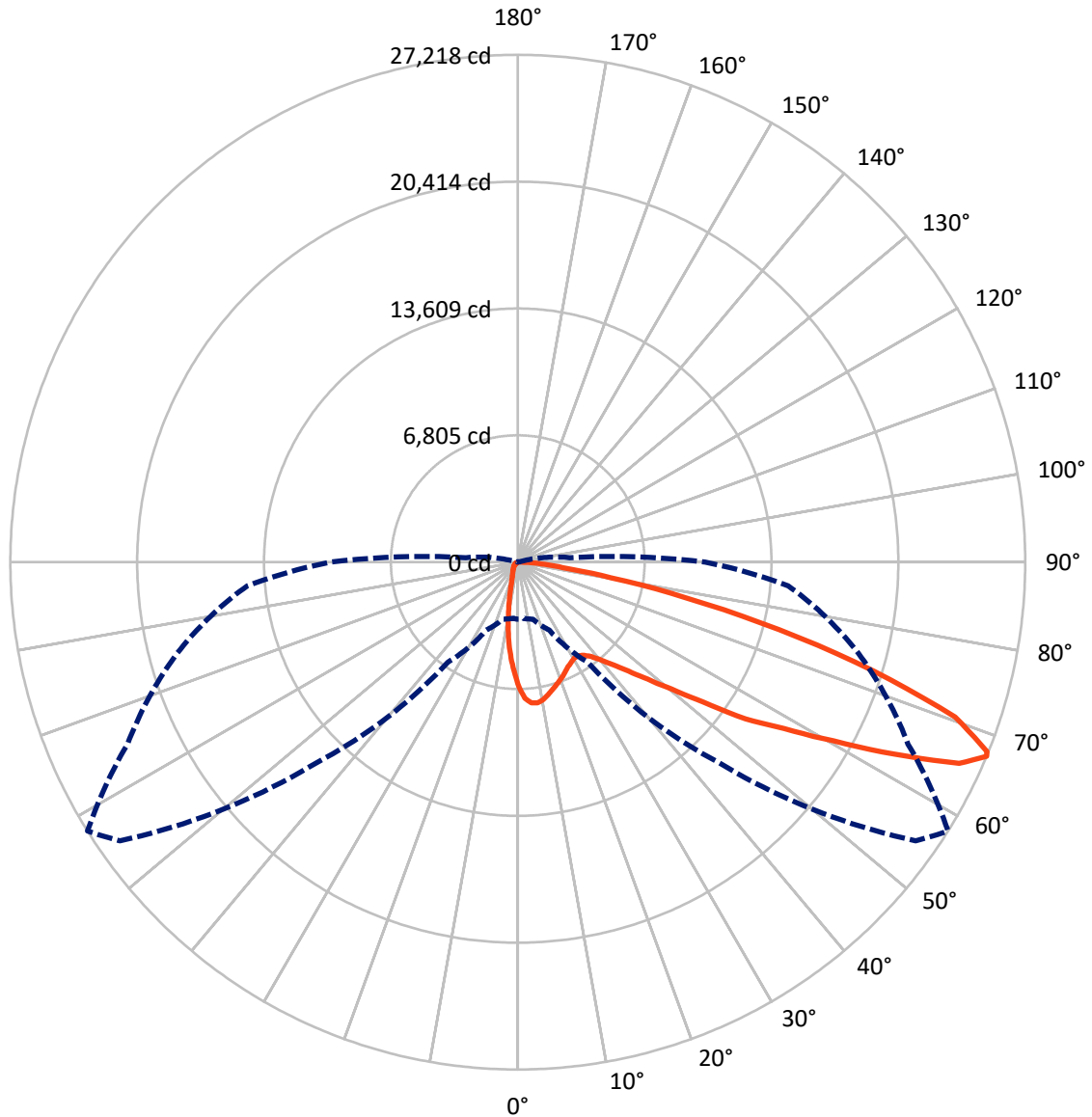
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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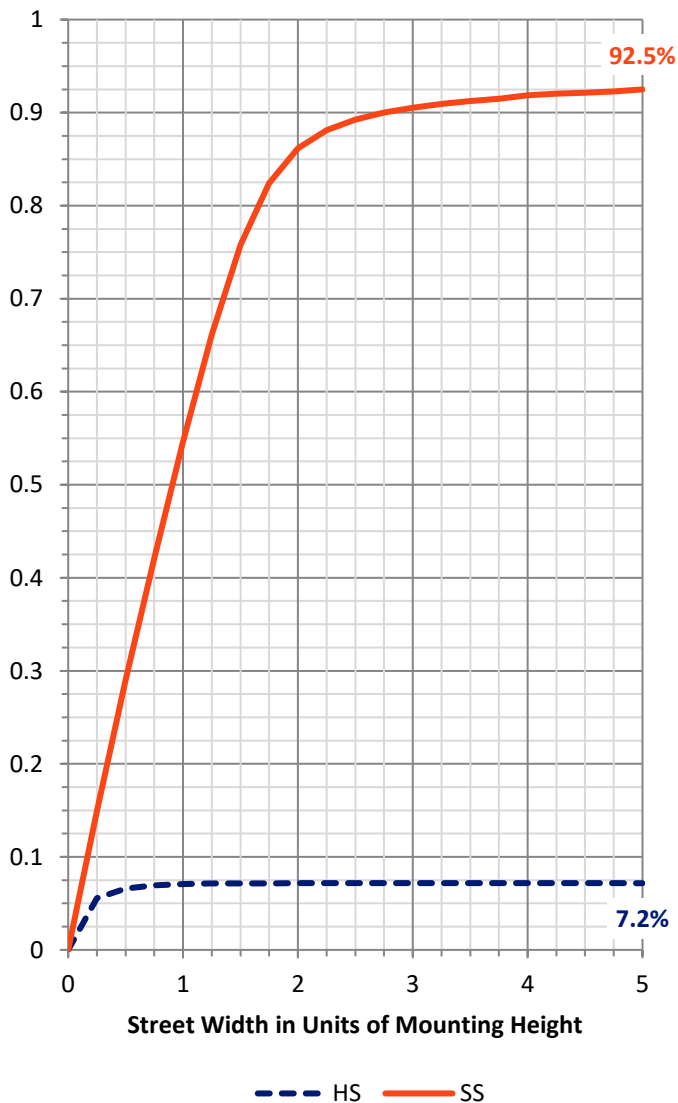
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1819.4	0.0	1819.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	23391.6	0.0	23391.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	25211.0	0.0	25211.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.3	2.2
10°-20°	1171.3	4.6
20°-30°	1587.2	6.3
30°-40°	2201.3	8.7
40°-50°	3510.9	13.9
50°-60°	6068.8	24.1
60°-70°	6932.5	27.5
70°-80°	2890.2	11.5
80°-90°	306.4	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°	25211.0	100.0
0°-180°	25211.0	100.0



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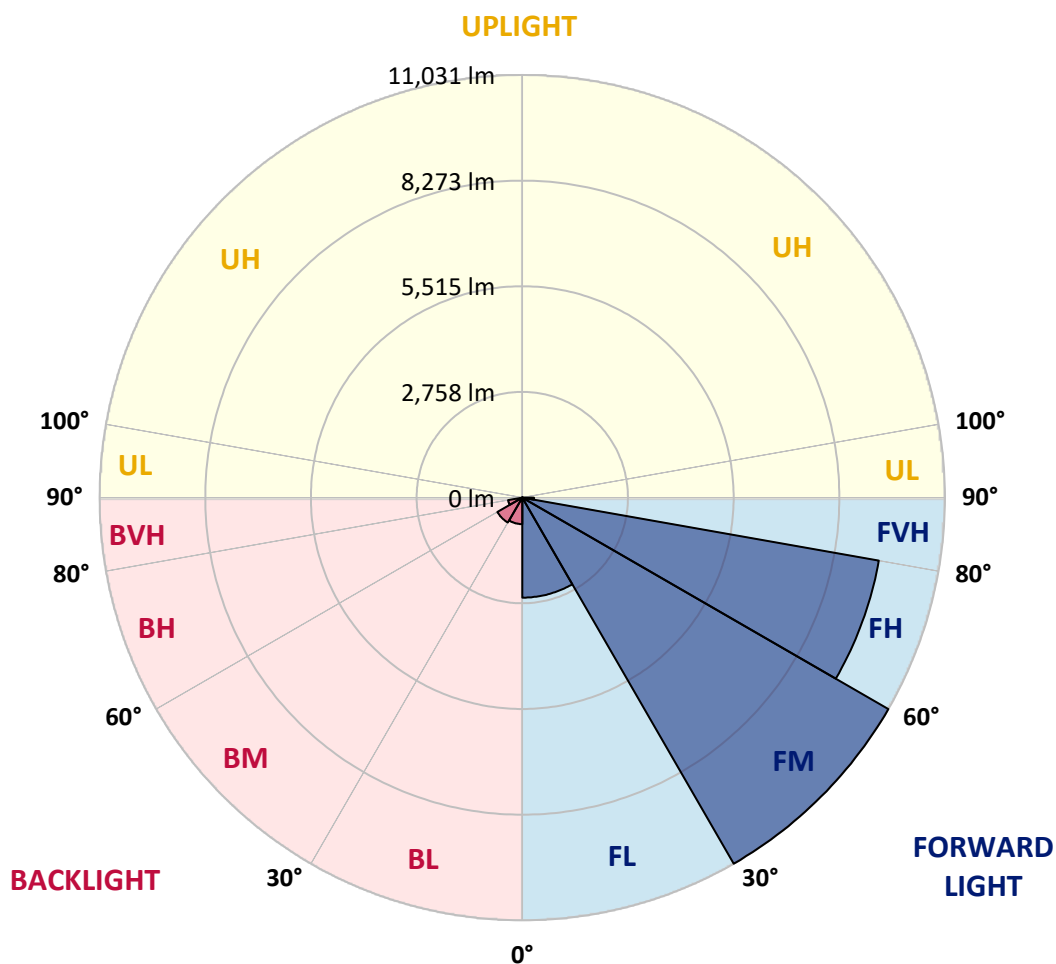
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.9	10.4			
FM (30°-60°)	11030.9	43.8			
FH (60°-80°)	9446.6	37.5			G4/12000
FVH (80°-90°)	304.2	1.2			G3/500
BL (0°-30°)	690.9	2.7	B2/1000		
BM (30°-60°)	750.2	3.0	B1/1000		
BH (60°-80°)	376.1	1.5	B1/500		G1/500
BVH (80°-90°)	2.2	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2
2.5°	7756.4	7768.2	7724.3	7689.0	7598.0	7500.3	7370.6	7301.5	7183.6	6979.7	6754.0
5°	7938.3	7953.5	7946.7	7938.3	7902.9	7808.6	7643.5	7582.8	7409.3	7077.4	6669.7
7.5°	7534.0	7589.6	7596.3	7662.0	7724.3	7732.8	7670.4	7625.0	7464.9	7075.7	6519.8
10°	6998.2	7035.3	7089.2	7165.0	7315.0	7439.6	7500.3	7493.5	7400.9	7023.5	6344.6
12.5°	6457.5	6477.7	6560.2	6689.9	6873.6	7085.8	7247.6	7279.6	7281.3	6961.2	6198.0
15°	5992.5	5984.1	6048.1	6198.0	6455.8	6722.0	7011.7	7062.3	7143.1	6900.5	6061.6
17.5°	5594.9	5638.7	5648.8	5813.9	6051.4	6396.8	6765.8	6855.0	7016.8	6848.3	5948.7
20°	5348.9	5372.5	5394.4	5487.1	5701.0	6064.9	6535.0	6657.9	6898.8	6801.1	5822.3
22.5°	5276.5	5291.6	5273.1	5301.8	5453.4	5776.8	6283.9	6447.3	6786.0	6757.3	5719.6
25°	5332.1	5347.2	5303.4	5269.7	5322.0	5542.7	6041.3	6240.1	6695.0	6748.9	5642.1
27.5°	5466.9	5495.5	5434.8	5374.2	5343.9	5416.3	5851.0	6081.8	6632.7	6789.3	5606.7
30°	5677.4	5694.3	5648.8	5574.7	5505.6	5433.2	5751.6	5972.3	6615.8	6883.7	5603.3
32.5°	5906.6	5941.9	5916.7	5867.8	5778.5	5606.7	5780.2	5975.6	6656.2	7020.1	5645.4
35°	6189.6	6230.0	6253.6	6243.5	6128.9	5915.0	5962.2	6127.3	6764.1	7271.2	5760.0
37.5°	6467.6	6502.9	6636.0	6681.5	6580.4	6378.3	6315.9	6425.4	7001.6	7599.7	5967.2
40°	6786.0	6833.1	7020.1	7193.7	7144.8	6932.5	6818.0	6909.0	7365.5	8095.0	6359.7
42.5°	7090.9	7175.1	7459.9	7766.5	7812.0	7574.4	7498.6	7528.9	7904.6	8807.6	6907.3
45°	7523.9	7603.1	7970.3	8386.4	8600.4	8415.1	8337.6	8332.5	8644.2	9810.0	7795.1
47.5°	8148.9	8219.7	8652.6	9063.7	9444.4	9469.7	9323.1	9373.7	9574.1	10982.6	8883.4
50°	8915.4	9082.2	9366.9	9794.8	10303.6	10714.7	10760.2	10692.8	10864.6	12340.4	10190.7
52.5°	10029.0	10093.0	10354.2	10706.3	11302.7	12000.1	12540.9	12448.2	12394.3	13634.3	11511.6
55°	10859.6	10945.5	11351.5	11835.0	12709.4	13629.2	14801.8	14833.8	14153.2	14877.6	12803.7
57.5°	10608.6	10740.0	11354.9	12326.9	14249.2	15930.5	16803.2	16825.1	15780.6	16085.5	14262.7
60°	9319.8	9382.1	10263.2	11560.4	14380.6	18423.9	19641.9	19465.0	17436.6	17436.6	15551.5
62.5°	6609.1	6706.8	7421.1	9329.9	12987.4	19289.8	23041.6	22676.1	19717.7	18728.8	16319.7
65°	4223.5	4129.2	4602.6	5889.7	9675.2	18011.1	26001.7	26023.6	21864.0	19246.0	15900.2
67°	3059.4	3022.4	3158.8	4026.4	6560.2	15140.4	26064.0	27218.0	23097.2	18919.2	14559.2
67.5°	2798.3	2826.9	2926.3	3632.2	5960.5	13777.5	25781.0	27147.3	23375.2	18722.1	14074.0
70°	2121.0	2072.2	2180.0	2569.2	3573.2	8691.4	22177.4	24898.2	23029.8	16766.1	11245.4
72.5°	1560.0	1555.0	1704.9	2100.8	2751.1	4629.6	16648.2	19963.7	18814.7	12766.7	7080.8
75°	1052.9	1100.1	1339.3	1755.5	2493.4	3002.1	11349.8	14483.4	13061.5	7249.3	2894.3
77.5°	599.8	603.1	862.6	1410.1	2239.0	2415.9	6725.3	9227.1	6914.0	2410.8	859.2
80°	259.4	284.7	427.9	1024.3	1856.5	2139.6	3856.3	5070.9	2796.6	510.5	278.0
82.5°	96.0	112.9	188.7	630.1	1354.5	1762.2	2329.9	2420.9	948.5	180.3	173.5
85°	0.0	3.4	69.1	294.8	705.9	786.8	1556.7	1435.4	419.5	85.9	112.9
87.5°	0.0	0.0	0.0	30.3	92.7	293.1	483.5	539.1	101.1	30.3	27.0
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°	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2	6683.2
2.5°	6632.7	6523.2	6248.6	5973.9	5770.1	5599.9	5343.9	5204.0	5129.9	5020.4	5027.1
5°	6465.9	6243.5	5760.0	5259.6	4855.3	4461.1	3989.4	3799.0	3639.0	3548.0	3487.3
7.5°	6218.2	5889.7	5173.7	4506.6	3884.9	3195.9	2678.7	2333.3	2100.8	2014.9	1932.4
10°	5947.0	5510.7	4579.0	3654.1	2791.5	2080.6	1642.6	1325.9	1213.0	1108.5	1118.6
12.5°	5696.0	5165.3	4033.2	2884.2	1955.9	1322.5	1031.0	901.3	864.3	852.5	852.5
15°	5490.4	4835.1	3446.9	2168.2	1341.0	950.2	825.5	790.1	776.6	773.3	773.3
17.5°	5271.4	4521.7	2917.9	1602.1	975.4	795.2	753.1	729.5	724.4	721.1	721.1
20°	5076.0	4206.7	2415.9	1192.8	788.4	716.0	689.0	673.9	668.8	665.5	667.1
22.5°	4890.7	3927.0	1944.1	901.3	694.1	652.0	625.0	609.9	599.8	591.3	593.0
25°	4725.6	3657.5	1563.4	737.9	625.0	588.0	561.0	539.1	517.2	507.1	505.4
27.5°	4609.3	3421.6	1218.0	631.8	562.7	522.3	488.6	461.6	433.0	417.8	414.4
30°	4513.3	3182.4	963.6	557.6	500.4	461.6	419.5	380.7	350.4	335.3	328.5
32.5°	4451.0	2955.0	759.8	497.0	448.1	401.0	353.8	315.0	281.3	266.2	262.8
35°	4440.9	2764.6	621.7	446.4	401.0	350.4	301.6	259.4	230.8	215.6	212.3
37.5°	4513.3	2618.0	520.6	406.0	362.2	306.6	252.7	214.0	188.7	176.9	175.2
40°	4707.1	2525.4	451.5	372.3	326.8	266.2	215.6	181.9	156.7	144.9	144.9
42.5°	5076.0	2528.7	406.0	340.3	291.5	227.4	183.6	151.6	129.7	119.6	116.2
45°	5652.2	2643.3	367.3	308.3	257.8	197.1	156.7	124.7	102.8	94.3	94.3
47.5°	6423.8	2870.7	333.6	276.3	227.4	168.5	133.1	101.1	82.6	74.1	74.1
50°	7432.9	3236.3	304.9	249.3	202.2	144.9	107.8	82.6	64.0	57.3	55.6
52.5°	8487.5	3687.8	271.2	225.7	173.5	123.0	87.6	64.0	48.9	43.8	42.1
55°	9651.6	4129.2	239.2	202.2	141.5	102.8	69.1	50.5	35.4	30.3	30.3
57.5°	10825.9	4562.2	200.5	168.5	111.2	75.8	53.9	37.1	23.6	18.5	18.5
60°	11819.9	4702.0	170.2	136.5	84.2	53.9	38.7	23.6	13.5	8.4	8.4
62.5°	11956.3	4230.3	143.2	104.5	60.6	37.1	20.2	13.5	5.1	3.4	3.4
65°	11215.0	3436.8	119.6	79.2	40.4	18.5	8.4	5.1	1.7	0.0	0.0
67°	10049.2	2786.5	97.7	59.0	28.6	11.8	5.1	1.7	0.0	0.0	0.0
67.5°	9751.0	2656.8	94.3	55.6	25.3	10.1	3.4	1.7	0.0	0.0	0.0
70°	7651.9	1989.6	67.4	33.7	15.2	6.7	0.0	0.0	0.0	0.0	0.0
72.5°	4755.9	1125.4	48.9	20.2	10.1	3.4	0.0	0.0	0.0	0.0	0.0
75°	1797.6	394.2	33.7	13.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	559.3	149.9	20.2	10.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	188.7	57.3	13.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	116.2	23.6	8.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	72.4	10.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)