

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: P457649

Luminaire Tested: **GALN-SA9A-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457649  
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-SA9A-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA 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: 30901 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

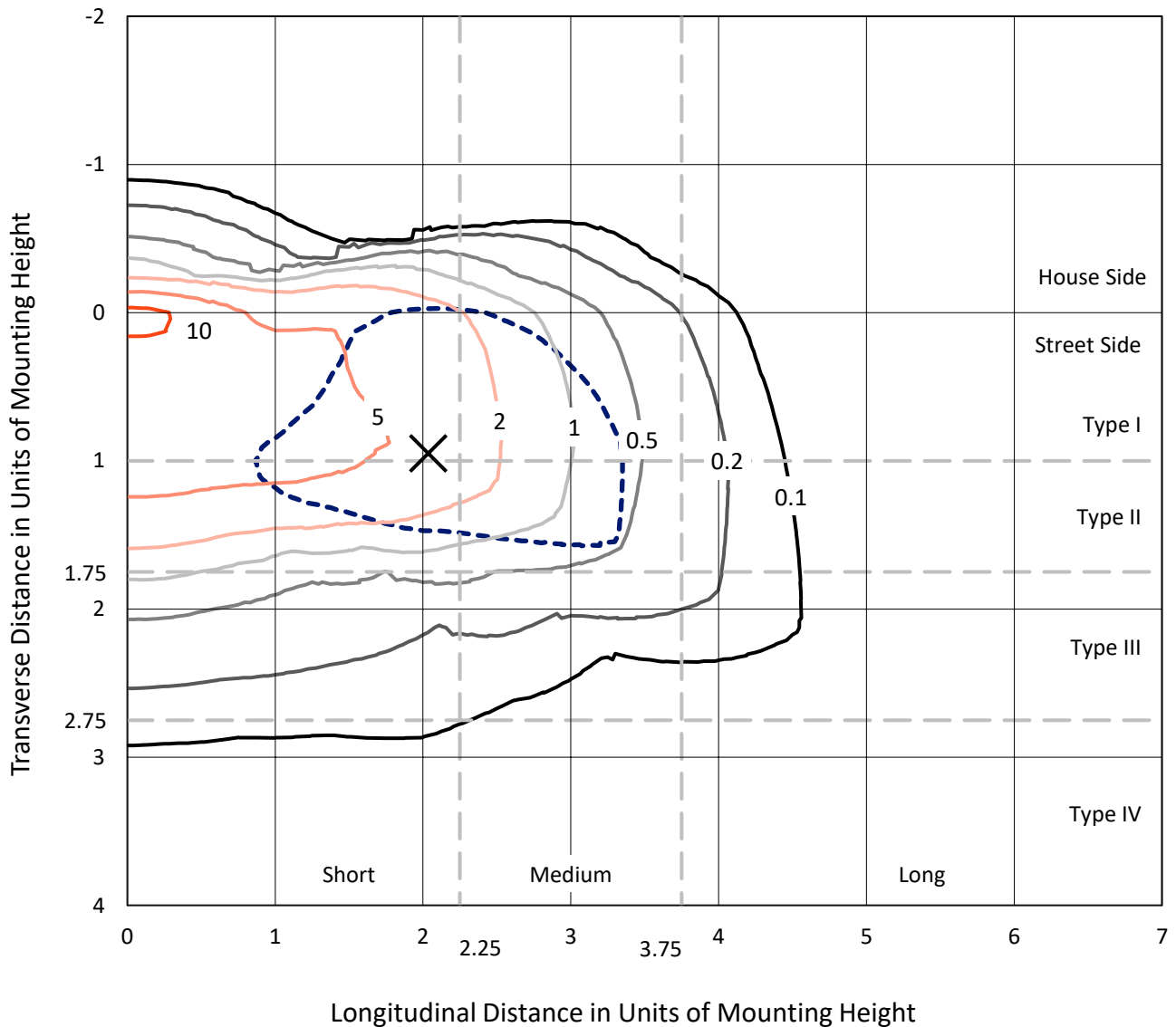
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

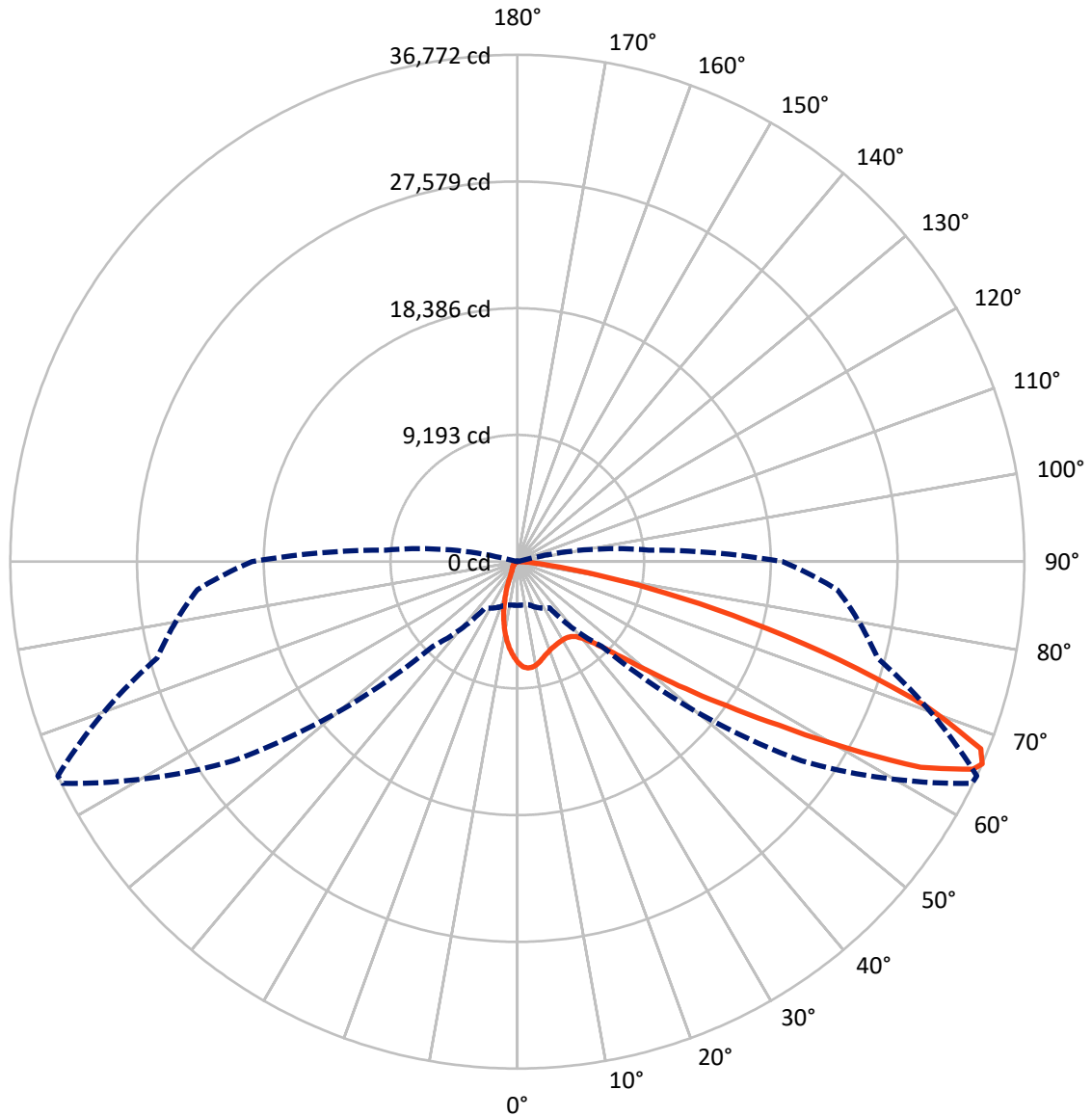
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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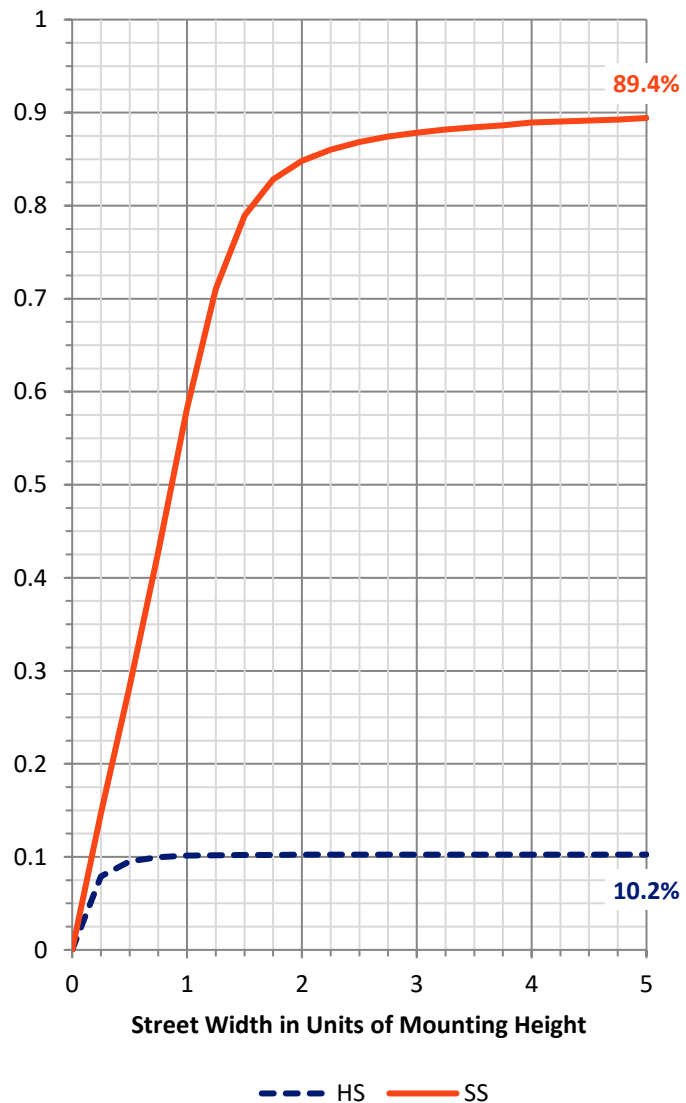
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3195.6	0.0	3195.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	27705.4	0.0	27705.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	30901.0	0.0	30901.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	599.3	1.9
10°-20°	1305.8	4.2
20°-30°	1870.5	6.1
30°-40°	2732.1	8.8
40°-50°	4581.2	14.8
50°-60°	7645.3	24.7
60°-70°	8115.3	26.3
70°-80°	3675.4	11.9
80°-90°	376.1	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°	30901.0	100.0
0°-180°	30901.0	100.0



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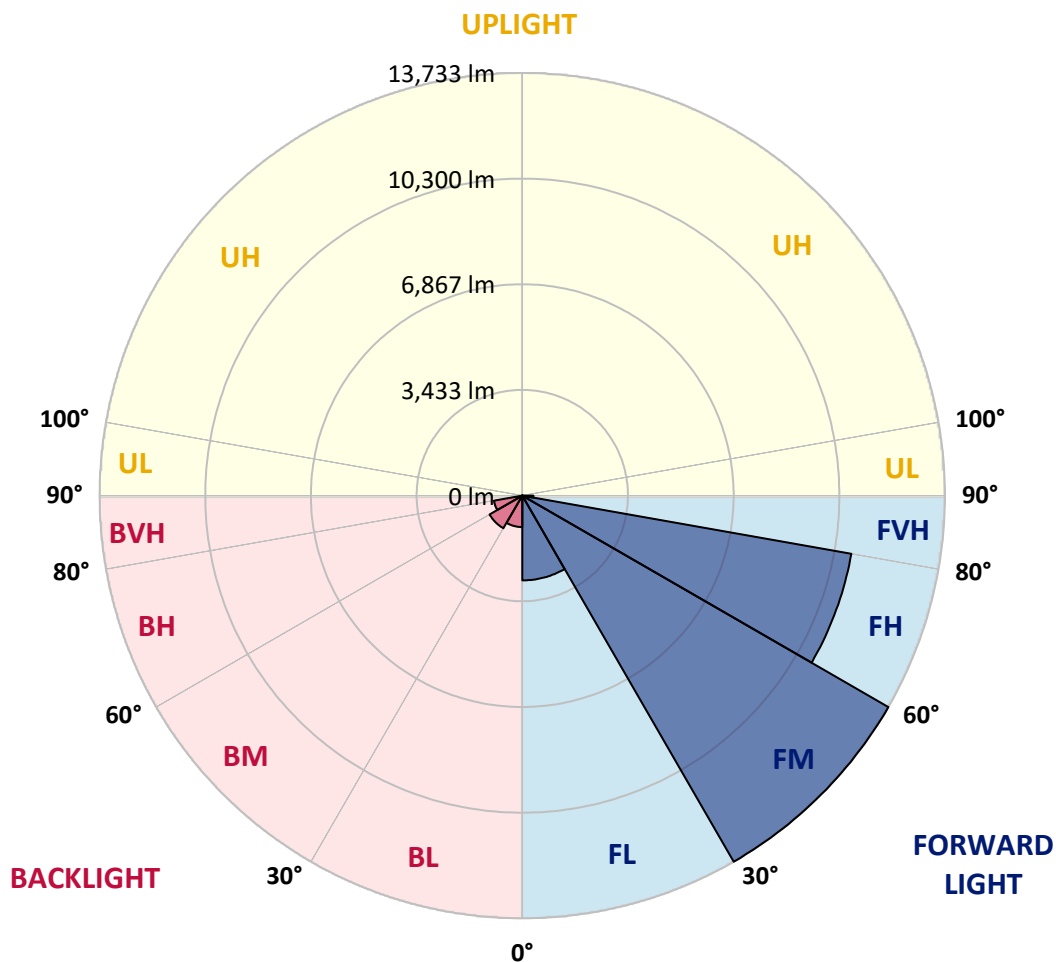
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2753.4	8.9			
FM (30°-60°)	13733.1	44.4			
FH (60°-80°)	10854.8	35.1			G4/12000
FVH (80°-90°)	364.1	1.2			G3/500
BL (0°-30°)	1022.2	3.3	B3/2500		
BM (30°-60°)	1225.5	4.0	B2/2500		
BH (60°-80°)	935.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	12.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8
2.5°	7722.2	7730.6	7741.0	7755.6	7766.1	7734.7	7690.9	7640.8	7630.4	7524.0	7394.6
5°	7309.0	7321.5	7413.3	7463.4	7576.1	7678.4	7743.1	7751.4	7747.3	7647.1	7440.5
7.5°	6720.4	6755.9	6845.6	6933.3	7144.1	7338.2	7567.8	7728.5	7738.9	7711.8	7455.1
10°	6242.5	6265.4	6311.4	6484.6	6659.9	6956.3	7277.7	7580.3	7605.3	7713.9	7442.6
12.5°	5868.9	5902.3	5958.6	6092.2	6303.0	6582.7	6947.9	7354.9	7407.1	7674.2	7407.1
15°	5608.0	5624.7	5681.1	5812.5	6017.1	6275.9	6645.3	7119.1	7165.0	7622.0	7400.8
17.5°	5484.9	5503.7	5543.3	5647.7	5816.7	6056.7	6417.8	6929.1	6987.6	7588.7	7423.8
20°	5518.3	5535.0	5537.0	5591.3	5706.1	5908.5	6250.8	6751.7	6826.9	7567.8	7461.3
22.5°	5708.2	5710.3	5685.2	5660.2	5699.8	5845.9	6148.6	6639.0	6716.2	7563.6	7505.2
25°	5992.0	5998.3	5956.5	5868.9	5789.6	5864.7	6125.6	6566.0	6634.9	7553.2	7532.3
27.5°	6384.4	6382.3	6369.8	6223.7	5998.3	5948.2	6144.4	6526.3	6584.8	7524.0	7542.7
30°	6933.3	6916.6	6889.5	6724.6	6380.2	6150.6	6223.7	6501.3	6555.5	7482.2	7515.6
32.5°	7473.9	7536.5	7532.3	7375.8	6945.8	6511.7	6388.6	6534.7	6574.3	7455.1	7476.0
35°	8104.2	8102.1	8262.8	8204.3	7701.4	6973.0	6670.3	6645.3	6676.6	7473.9	7457.2
37.5°	8688.5	8742.8	8993.3	9053.8	8594.6	7624.1	7069.0	6883.2	6893.7	7601.2	7503.1
40°	9416.9	9521.3	9894.9	10097.3	9692.4	8590.5	7657.5	7319.4	7321.5	7914.2	7676.3
42.5°	10356.1	10521.0	10869.6	11207.7	10990.6	9734.2	8540.4	8010.2	8006.1	8465.2	8072.9
45°	11497.8	11612.6	12009.1	12545.5	12407.7	11330.8	9826.0	9080.9	9026.7	9368.9	8776.2
47.5°	12482.9	12639.4	13042.2	13653.7	14279.9	13280.1	11362.1	10552.3	10516.8	10806.9	9982.5
50°	12912.8	13050.6	13474.2	14332.0	15849.3	15838.9	13649.6	12699.9	12639.4	12795.9	11848.4
52.5°	12441.1	12570.5	12998.4	14067.0	16588.2	18957.0	16963.9	15394.4	15321.3	15121.0	14077.4
55°	10825.7	10932.2	11564.6	12791.8	16304.3	21035.8	21530.4	18723.3	18439.4	17660.9	16600.7
57.5°	8619.7	8565.4	8957.8	10383.3	14638.8	21732.8	26218.0	22870.3	22363.2	19856.6	18735.8
60°	5973.2	6140.2	6298.8	7238.0	11007.3	20524.4	29133.7	28083.9	27416.0	22016.7	20781.1
62.5°	4391.2	4501.8	4606.2	5040.3	6920.8	16387.8	29649.2	33439.3	32846.6	24310.4	22732.6
65°	3472.9	3481.3	3523.0	3950.9	4560.3	10656.7	27171.8	36459.3	36307.0	26518.5	23523.6
66°	3164.0	3166.1	3230.8	3690.0	4092.8	8678.1	25187.0	36688.9	36772.4	27048.7	23291.9
67.5°	2765.4	2757.0	2851.0	3316.4	3727.5	6257.1	21634.8	35758.1	36252.7	27455.6	22459.2
70°	2143.4	2133.0	2247.8	2782.1	3433.3	4174.2	14380.0	30703.2	31500.4	26622.9	19871.2
72.5°	1427.6	1435.9	1632.1	2195.6	3276.7	3675.4	8651.0	23356.6	24483.6	21985.4	15632.3
75°	832.7	847.4	1070.7	1632.1	2844.7	3504.2	4896.3	16655.0	17375.0	15181.5	9738.4
77.5°	436.2	442.5	599.0	1076.9	2181.0	3253.8	3262.1	10640.0	10978.1	7377.9	3854.9
80°	231.7	225.4	321.4	649.1	1500.6	2857.2	2646.4	5633.1	5856.4	2191.4	974.7
82.5°	87.7	96.0	171.1	425.8	887.0	2051.6	2279.1	2489.9	2412.7	482.1	409.1
85°	16.7	20.9	73.0	252.5	446.6	857.8	1680.1	1220.9	1131.2	181.6	235.8
87.5°	2.1	4.2	20.9	60.5	64.7	290.1	496.7	338.1	292.2	66.8	98.1
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°	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8	7327.8
2.5°	7331.9	7275.6	7087.8	6902.0	6712.1	6540.9	6424.1	6234.1	6186.1	6117.3	6077.6
5°	7317.3	7185.8	6824.8	6430.3	6063.0	5666.4	5363.8	5071.6	4915.1	4835.8	4806.6
7.5°	7275.6	7066.9	6503.4	5885.6	5297.0	4704.3	4188.8	3796.4	3543.9	3370.6	3253.8
10°	7192.1	6904.1	6129.8	5280.3	4391.2	3608.6	2955.3	2458.6	2074.6	1953.5	1957.7
12.5°	7106.5	6722.5	5712.4	4608.3	3506.3	2519.1	1826.2	1433.8	1250.2	1189.6	1177.1
15°	7027.2	6549.3	5303.3	3957.1	2610.9	1632.1	1177.1	1039.4	989.3	978.8	976.8
17.5°	6985.5	6388.6	4867.1	3212.0	1822.0	1108.2	943.4	905.8	891.2	880.8	876.6
20°	6950.0	6248.7	4449.7	2514.9	1246.0	907.9	845.3	809.8	784.7	774.3	768.0
22.5°	6925.0	6104.7	4017.6	1947.3	953.8	805.6	749.3	703.3	667.9	655.3	647.0
25°	6887.4	5946.1	3581.4	1423.4	803.5	715.9	651.2	596.9	551.0	528.0	523.9
27.5°	6833.1	5766.6	3103.5	1054.0	718.0	636.6	557.3	490.5	444.5	419.5	421.6
30°	6745.5	5578.8	2625.6	836.9	649.1	555.2	469.6	404.9	361.1	342.3	340.2
32.5°	6641.1	5351.3	2187.3	718.0	586.5	482.1	392.4	336.0	302.6	288.0	285.9
35°	6543.0	5121.7	1740.6	644.9	521.8	415.3	329.8	281.8	256.7	244.2	246.3
37.5°	6488.8	4917.2	1356.6	586.5	469.6	356.9	283.8	242.1	219.1	208.7	206.6
40°	6524.2	4750.2	1079.0	534.3	411.2	306.8	244.2	208.7	185.8	171.1	171.1
42.5°	6691.2	4677.2	870.3	484.2	356.9	265.1	212.9	179.5	154.4	139.8	141.9
45°	7200.5	4754.4	728.4	438.3	306.8	229.6	183.7	148.2	125.2	114.8	112.7
47.5°	8045.7	5044.5	630.3	390.3	263.0	196.2	154.4	123.1	100.2	91.8	89.7
50°	9523.4	5643.5	557.3	342.3	223.3	167.0	127.3	98.1	79.3	71.0	71.0
52.5°	11556.2	6950.0	505.1	288.0	187.8	141.9	104.4	79.3	62.6	56.4	54.3
55°	13680.9	8327.5	477.9	242.1	156.5	116.9	83.5	62.6	48.0	41.7	39.7
57.5°	15724.1	9408.6	446.6	196.2	125.2	89.7	64.7	48.0	33.4	29.2	27.1
60°	17683.9	10283.1	379.9	156.5	98.1	64.7	48.0	33.4	23.0	18.8	18.8
62.5°	19437.1	10792.3	298.5	125.2	75.1	45.9	31.3	25.0	16.7	12.5	12.5
65°	19641.6	10130.7	225.4	96.0	54.3	29.2	18.8	18.8	12.5	8.3	8.3
66°	19230.4	9569.3	198.3	87.7	48.0	25.0	16.7	14.6	10.4	6.3	6.3
67.5°	18312.1	8611.3	171.1	75.1	39.7	18.8	12.5	12.5	8.3	4.2	4.2
70°	15822.2	7033.5	135.7	56.4	29.2	14.6	8.3	8.3	6.3	4.2	4.2
72.5°	12059.2	5251.1	110.6	41.7	20.9	10.4	6.3	6.3	6.3	4.2	4.2
75°	7273.5	2828.0	85.6	31.3	18.8	8.3	4.2	6.3	8.3	6.3	4.2
77.5°	2679.8	962.1	66.8	25.0	14.6	8.3	4.2	4.2	8.3	6.3	6.3
80°	657.4	250.5	48.0	20.9	14.6	8.3	4.2	4.2	8.3	8.3	8.3
82.5°	304.7	106.4	33.4	18.8	14.6	8.3	4.2	4.2	6.3	8.3	8.3
85°	175.3	50.1	27.1	20.9	14.6	8.3	4.2	4.2	6.3	8.3	8.3
87.5°	71.0	25.0	25.0	20.9	16.7	10.4	4.2	4.2	4.2	6.3	6.3
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)