

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: P456750

Luminaire Tested: **GALN-SA8A-740-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456750  
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-SA8A-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 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: 30223 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

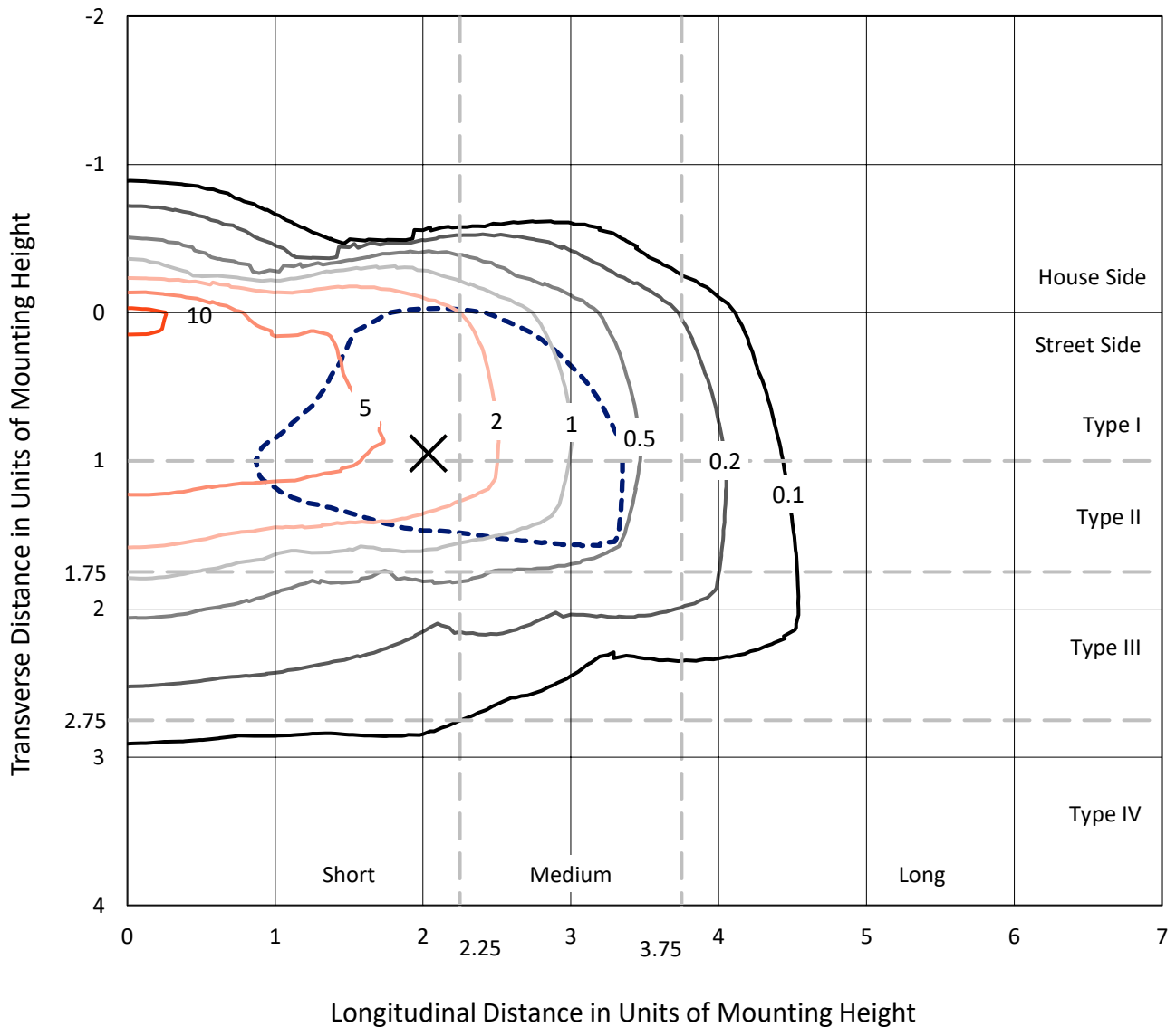
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

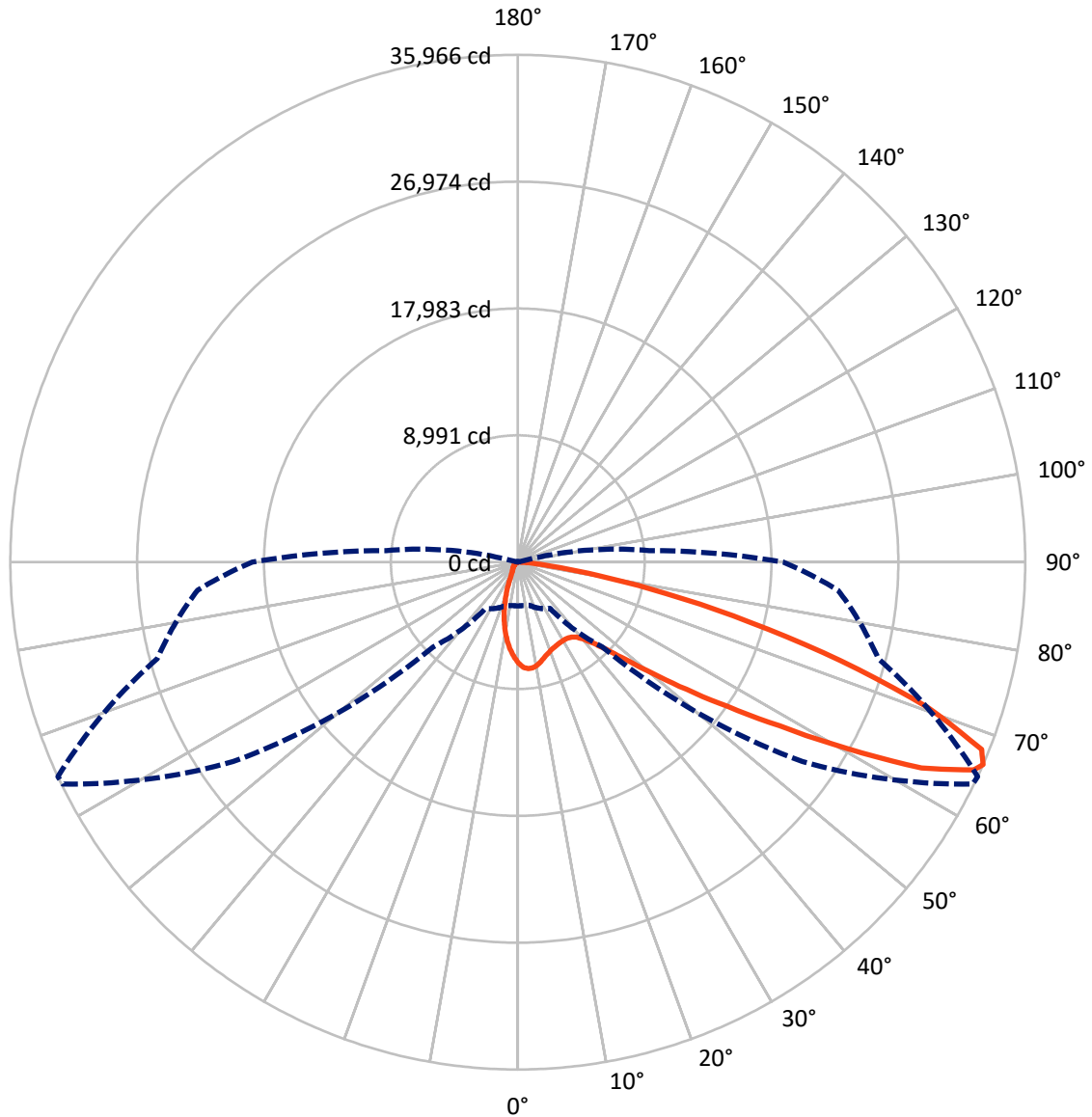
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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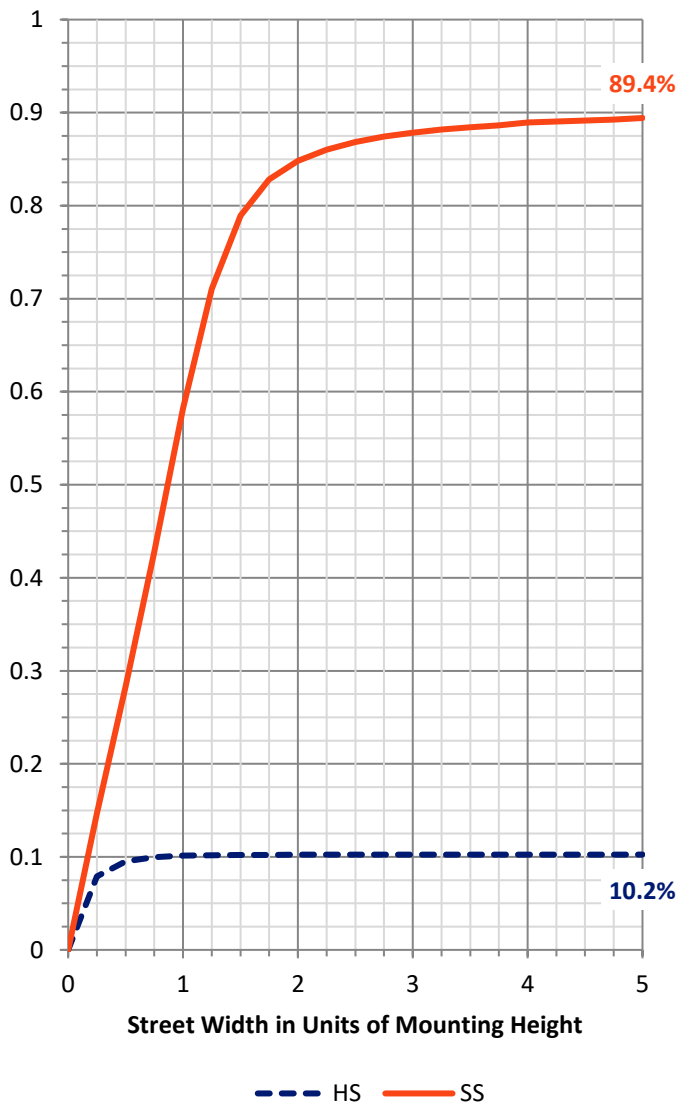
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3125.5	0.0	3125.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	27097.5	0.0	27097.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	30223.0	0.0	30223.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.2	1.9
10°-20°	1277.1	4.2
20°-30°	1829.5	6.1
30°-40°	2672.1	8.8
40°-50°	4480.7	14.8
50°-60°	7477.6	24.7
60°-70°	7937.2	26.3
70°-80°	3594.7	11.9
80°-90°	367.8	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°	30223.0	100.0
0°-180°	30223.0	100.0



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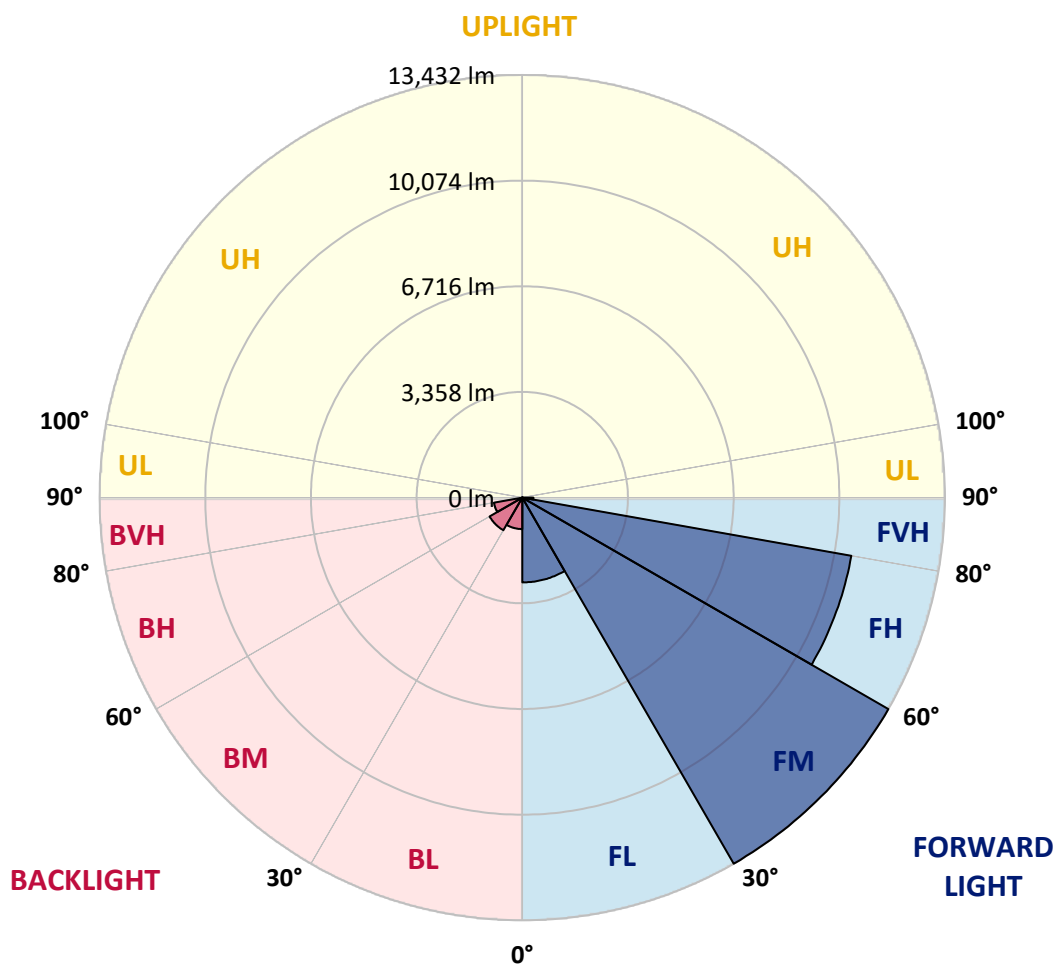
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2693.0	8.9			
FM (30°-60°)	13431.8	44.4			
FH (60°-80°)	10616.7	35.1			G4/12000
FVH (80°-90°)	356.1	1.2			G3/500
BL (0°-30°)	999.8	3.3	B2/1000		
BM (30°-60°)	1198.6	4.0	B2/2500		
BH (60°-80°)	915.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	11.7	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°	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0
2.5°	7552.8	7561.0	7571.2	7585.5	7595.7	7565.0	7522.2	7473.2	7463.0	7358.9	7232.3
5°	7148.6	7160.9	7250.7	7299.7	7409.9	7509.9	7573.2	7581.4	7577.3	7479.3	7277.2
7.5°	6573.0	6607.7	6695.4	6781.2	6987.4	7177.2	7401.7	7558.9	7569.1	7542.6	7291.5
10°	6105.5	6128.0	6172.9	6342.3	6513.8	6803.6	7118.0	7414.0	7438.5	7544.6	7279.3
12.5°	5740.1	5772.8	5827.9	5958.5	6164.7	6438.2	6795.5	7193.5	7244.6	7505.8	7244.6
15°	5485.0	5501.3	5556.4	5685.0	5885.1	6138.2	6499.5	6962.9	7007.8	7454.8	7238.4
17.5°	5364.5	5382.9	5421.7	5523.7	5689.1	5923.8	6277.0	6777.1	6834.3	7422.1	7260.9
20°	5397.2	5413.5	5415.6	5468.6	5580.9	5778.9	6113.7	6603.6	6677.1	7401.7	7297.6
22.5°	5582.9	5585.0	5560.5	5536.0	5574.8	5717.7	6013.7	6493.4	6568.9	7397.7	7340.5
25°	5860.6	5866.7	5825.9	5740.1	5662.6	5736.0	5991.2	6421.9	6489.3	7387.4	7367.0
27.5°	6244.3	6242.3	6230.0	6087.1	5866.7	5817.7	6009.6	6383.1	6440.3	7358.9	7377.2
30°	6781.2	6764.9	6738.3	6577.1	6240.2	6015.7	6087.1	6358.6	6411.7	7318.0	7350.7
32.5°	7309.9	7371.1	7367.0	7213.9	6793.4	6368.8	6248.4	6391.3	6430.1	7291.5	7311.9
35°	7926.3	7924.3	8081.5	8024.3	7532.4	6820.0	6524.0	6499.5	6530.1	7309.9	7293.5
37.5°	8497.9	8551.0	8795.9	8855.1	8406.1	7456.9	6913.9	6732.2	6742.4	7434.4	7338.5
40°	9210.3	9312.4	9677.8	9875.8	9479.8	8402.0	7489.5	7158.8	7160.9	7740.6	7507.9
42.5°	10128.9	10290.2	10631.1	10961.8	10749.5	9520.6	8353.0	7834.5	7830.4	8279.5	7895.7
45°	11245.5	11357.8	11745.6	12270.2	12135.5	11082.2	9610.4	8881.7	8828.6	9163.4	8583.6
47.5°	12209.0	12362.1	12756.1	13354.2	13966.5	12988.8	11112.8	10320.8	10286.1	10569.8	9763.5
50°	12629.5	12764.2	13178.6	14017.6	15501.6	15491.4	13350.1	12421.3	12362.1	12515.2	11588.4
52.5°	12168.2	12294.7	12713.2	13758.3	16224.2	18541.1	16591.6	15056.6	14985.1	14789.2	13768.5
55°	10588.2	10692.3	11310.8	12511.1	15946.6	20574.2	21058.0	18312.5	18034.8	17273.4	16236.5
57.5°	8430.5	8377.5	8761.2	10155.4	14317.6	21256.0	25642.8	22368.5	21872.5	19420.9	18324.7
60°	5842.2	6005.5	6160.6	7079.2	10765.8	20074.1	28494.4	27467.7	26814.5	21533.6	20325.2
62.5°	4294.9	4403.1	4505.1	4929.7	6768.9	16028.3	28998.6	32705.6	32125.9	23777.0	22233.8
65°	3396.7	3404.9	3445.7	3864.2	4460.2	10422.9	26575.6	35659.4	35510.4	25936.7	23007.4
66°	3094.6	3096.6	3159.9	3609.0	4003.0	8487.7	24634.4	35883.9	35965.6	26455.2	22780.9
67.5°	2704.7	2696.6	2788.4	3243.6	3645.8	6119.8	21160.1	34973.5	35457.3	26853.2	21966.4
70°	2096.4	2086.2	2198.5	2721.0	3357.9	4082.6	14064.5	30029.5	30809.3	26038.8	19435.2
72.5°	1396.2	1404.4	1596.3	2147.4	3204.8	3594.7	8461.2	22844.1	23946.4	21503.0	15289.3
75°	814.5	828.8	1047.2	1596.3	2782.3	3427.3	4788.9	16289.5	16993.8	14848.4	9524.7
77.5°	426.6	432.8	585.9	1053.3	2133.2	3182.4	3190.5	10406.5	10737.2	7216.0	3770.3
80°	226.6	220.5	314.4	634.8	1467.7	2794.5	2588.4	5509.5	5727.9	2143.4	953.3
82.5°	85.7	93.9	167.4	416.4	867.6	2006.6	2229.1	2435.3	2359.7	471.5	400.1
85°	16.3	20.4	71.4	247.0	436.8	839.0	1643.2	1194.2	1106.4	177.6	230.7
87.5°	2.0	4.1	20.4	59.2	63.3	283.7	485.8	330.7	285.8	65.3	95.9
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°	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0	7167.0
2.5°	7171.1	7116.0	6932.2	6750.6	6564.8	6397.4	6283.1	6097.3	6050.4	5983.0	5944.3
5°	7156.8	7028.2	6675.0	6289.2	5930.0	5542.1	5246.1	4960.3	4807.3	4729.7	4701.1
7.5°	7116.0	6911.8	6360.7	5756.5	5180.8	4601.1	4096.9	3713.1	3466.1	3296.7	3182.4
10°	7034.3	6752.6	5995.3	5164.5	4294.9	3529.4	2890.5	2404.6	2029.0	1910.7	1914.7
12.5°	6950.6	6575.0	5587.0	4507.2	3429.4	2463.8	1786.1	1402.4	1222.7	1163.5	1151.3
15°	6873.0	6405.6	5186.9	3870.3	2553.7	1596.3	1151.3	1016.6	967.6	957.4	955.3
17.5°	6832.2	6248.4	4760.3	3141.6	1782.1	1083.9	922.7	885.9	871.6	861.4	857.3
20°	6797.5	6111.6	4352.0	2459.8	1218.7	888.0	826.7	792.0	767.5	757.3	751.2
22.5°	6773.0	5970.8	3929.5	1904.5	932.9	787.9	732.8	687.9	653.2	641.0	632.8
25°	6736.3	5815.7	3502.9	1392.2	785.9	700.2	636.9	583.8	538.9	516.4	512.4
27.5°	6683.2	5640.1	3035.4	1030.9	702.2	622.6	545.0	479.7	434.8	410.3	412.3
30°	6597.5	5456.4	2567.9	818.6	634.8	543.0	459.3	396.0	353.1	334.8	332.7
32.5°	6495.4	5233.9	2139.3	702.2	573.6	471.5	383.8	328.6	296.0	281.7	279.7
35°	6399.5	5009.3	1702.4	630.8	510.3	406.2	322.5	275.6	251.1	238.8	240.9
37.5°	6346.4	4809.3	1326.8	573.6	459.3	349.1	277.6	236.8	214.3	204.1	202.1
40°	6381.1	4646.0	1055.3	522.6	402.1	300.1	238.8	204.1	181.7	167.4	167.4
42.5°	6544.4	4574.5	851.2	473.6	349.1	259.2	208.2	175.6	151.1	136.8	138.8
45°	7042.5	4650.1	712.4	428.7	300.1	224.5	179.6	144.9	122.5	112.3	110.2
47.5°	7869.2	4933.8	616.5	381.7	257.2	191.9	151.1	120.4	98.0	89.8	87.8
50°	9314.4	5519.7	545.0	334.8	218.4	163.3	124.5	95.9	77.6	69.4	69.4
52.5°	11302.7	6797.5	494.0	281.7	183.7	138.8	102.1	77.6	61.2	55.1	53.1
55°	13380.7	8144.8	467.5	236.8	153.1	114.3	81.7	61.2	46.9	40.8	38.8
57.5°	15379.1	9202.2	436.8	191.9	122.5	87.8	63.3	46.9	32.7	28.6	26.5
60°	17295.9	10057.5	371.5	153.1	95.9	63.3	46.9	32.7	22.5	18.4	18.4
62.5°	19010.6	10555.5	291.9	122.5	73.5	44.9	30.6	24.5	16.3	12.2	12.2
65°	19210.6	9908.4	220.5	93.9	53.1	28.6	18.4	18.4	12.2	8.2	8.2
66°	18808.5	9359.3	193.9	85.7	46.9	24.5	16.3	14.3	10.2	6.1	6.1
67.5°	17910.3	8422.4	167.4	73.5	38.8	18.4	12.2	12.2	8.2	4.1	4.1
70°	15475.1	6879.2	132.7	55.1	28.6	14.3	8.2	8.2	6.1	4.1	4.1
72.5°	11794.6	5135.9	108.2	40.8	20.4	10.2	6.1	6.1	6.1	4.1	4.1
75°	7113.9	2766.0	83.7	30.6	18.4	8.2	4.1	6.1	8.2	6.1	4.1
77.5°	2621.0	941.0	65.3	24.5	14.3	8.2	4.1	4.1	8.2	6.1	6.1
80°	643.0	245.0	46.9	20.4	14.3	8.2	4.1	4.1	8.2	8.2	8.2
82.5°	298.0	104.1	32.7	18.4	14.3	8.2	4.1	4.1	6.1	8.2	8.2
85°	171.5	49.0	26.5	20.4	14.3	8.2	4.1	4.1	6.1	8.2	8.2
87.5°	69.4	24.5	24.5	20.4	16.3	10.2	4.1	4.1	4.1	6.1	6.1
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)