

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: P455155

Luminaire Tested: **GALN-SA6B-750-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455155  
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-SA6B-750-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 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: 27615 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

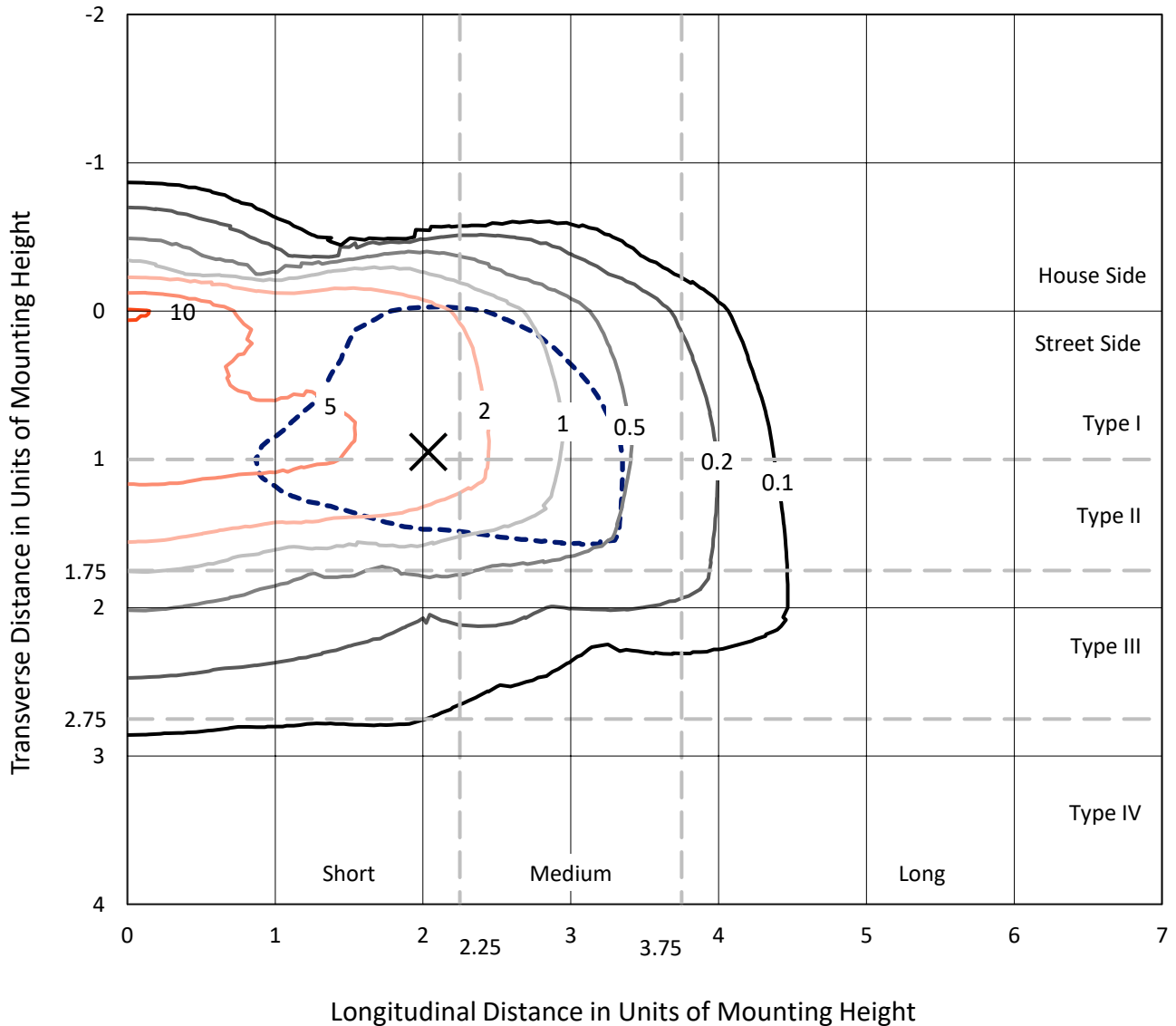
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

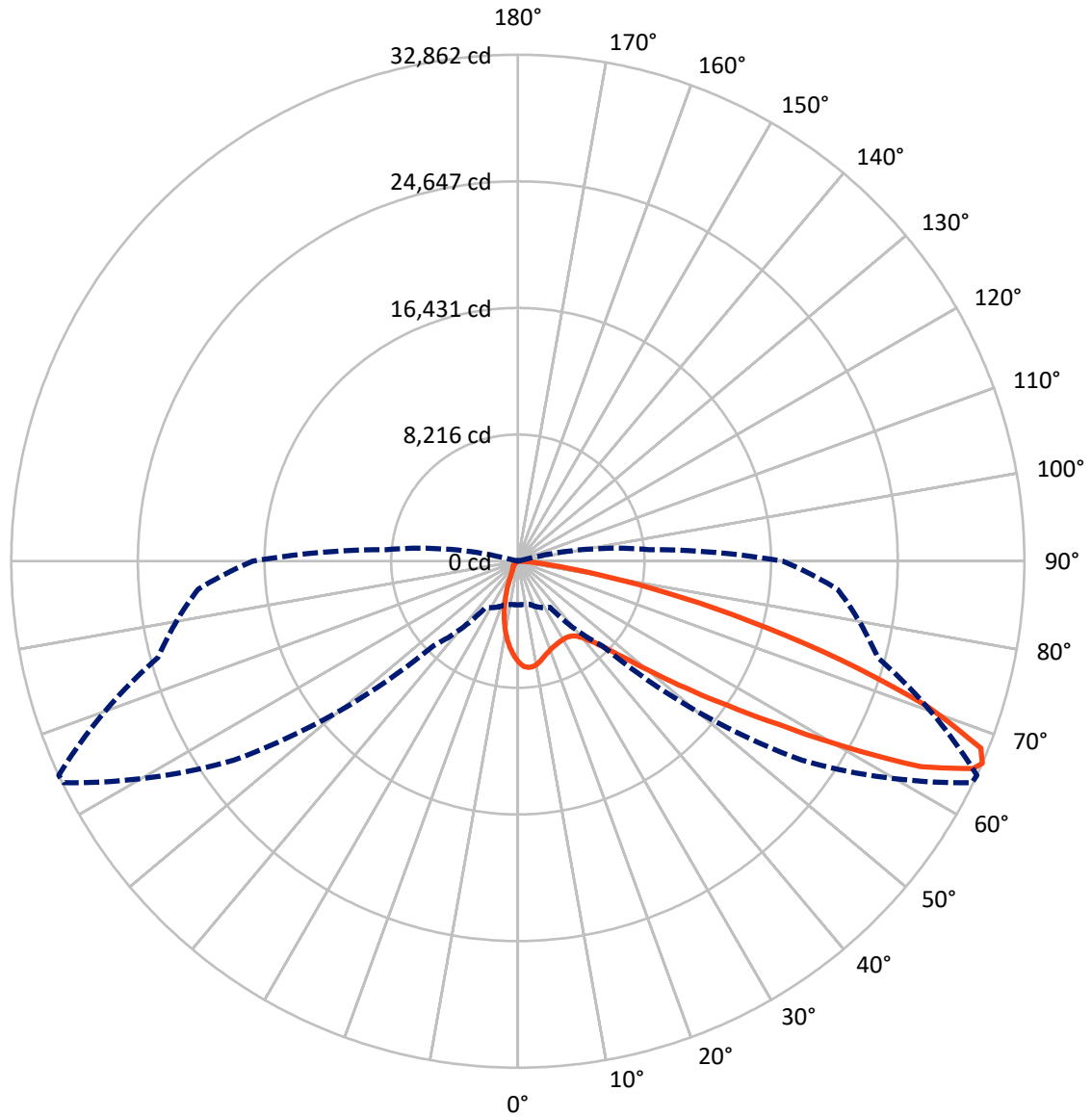
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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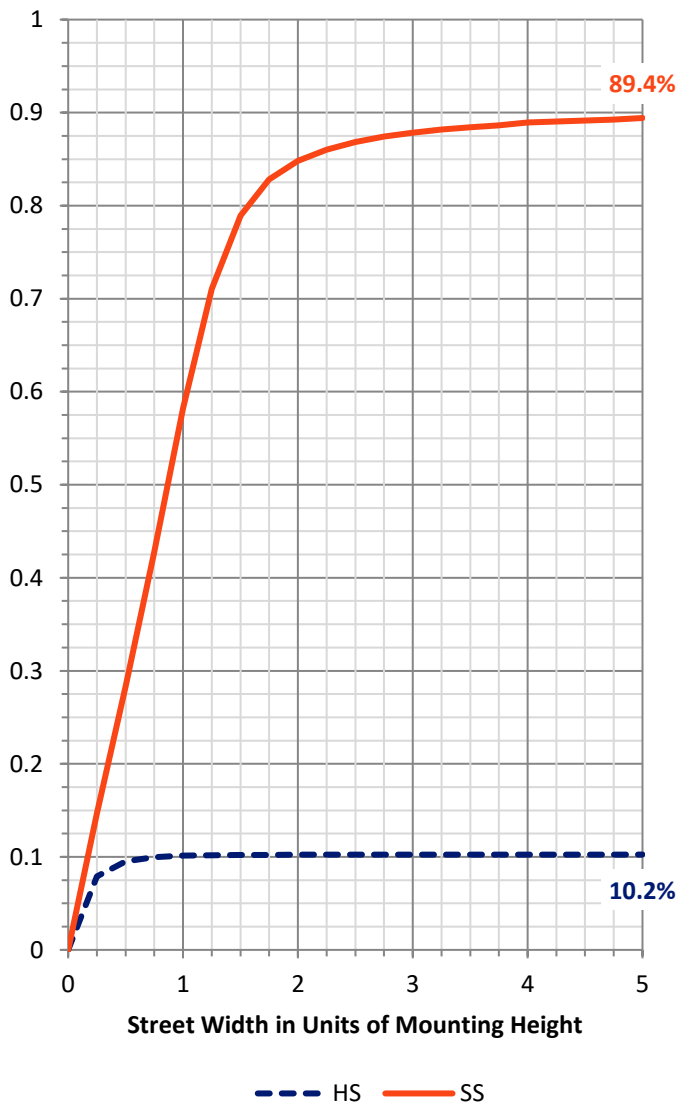
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2855.8	0.0	2855.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	24759.2	0.0	24759.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	27615.0	0.0	27615.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.6	1.9
10°-20°	1166.9	4.2
20°-30°	1671.6	6.1
30°-40°	2441.6	8.8
40°-50°	4094.1	14.8
50°-60°	6832.3	24.7
60°-70°	7252.3	26.3
70°-80°	3284.6	11.9
80°-90°	336.1	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°	27615.0	100.0
0°-180°	27615.0	100.0

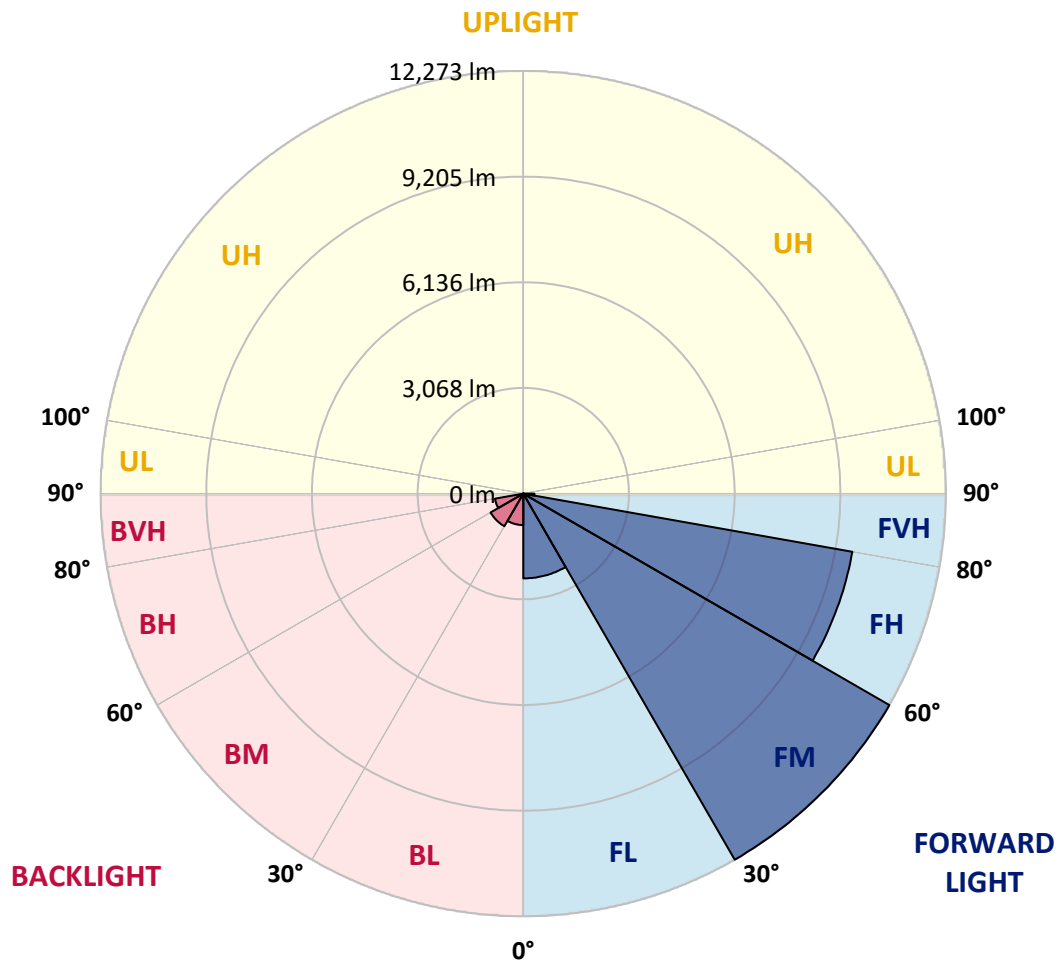


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2460.6	8.9			
FM	(30°-60°)	12272.7	44.4			
FH	(60°-80°)	9700.5	35.1			G4/12000
FVH	(80°-90°)	325.4	1.2			G3/500
BL	(0°-30°)	913.5	3.3	B2/1000		
BM	(30°-60°)	1095.2	4.0	B2/2500		
BH	(60°-80°)	836.3	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.7	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°	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5
2.5°	6901.0	6908.5	6917.8	6930.9	6940.2	6912.2	6873.1	6828.3	6819.0	6723.9	6608.2
5°	6531.7	6542.9	6625.0	6669.8	6770.5	6861.9	6919.7	6927.2	6923.4	6833.9	6649.3
7.5°	6005.8	6037.5	6117.7	6196.0	6384.4	6557.9	6763.0	6906.6	6916.0	6891.7	6662.3
10°	5578.7	5599.2	5640.2	5795.0	5951.7	6216.5	6503.8	6774.2	6796.6	6893.6	6651.1
12.5°	5244.8	5274.6	5325.0	5444.4	5632.7	5882.7	6209.1	6572.8	6619.4	6858.1	6619.4
15°	5011.7	5026.6	5076.9	5194.4	5377.2	5608.5	5938.6	6362.0	6403.1	6811.5	6613.8
17.5°	4901.6	4918.4	4953.8	5047.1	5198.2	5412.7	5735.3	6192.3	6244.5	6781.7	6634.3
20°	4931.5	4946.4	4948.2	4996.7	5099.3	5280.2	5586.1	6033.8	6100.9	6763.0	6667.9
22.5°	5101.2	5103.0	5080.7	5058.3	5093.7	5224.3	5494.7	5933.0	6002.0	6759.3	6707.1
25°	5354.8	5360.4	5323.1	5244.8	5173.9	5241.1	5474.2	5867.8	5929.3	6750.0	6731.3
27.5°	5705.5	5703.6	5692.4	5561.9	5360.4	5315.7	5491.0	5832.3	5884.5	6723.9	6740.6
30°	6196.0	6181.1	6156.9	6009.5	5701.8	5496.6	5561.9	5809.9	5858.4	6686.6	6716.4
32.5°	6679.1	6735.0	6731.3	6591.4	6207.2	5819.3	5709.2	5839.8	5875.2	6662.3	6681.0
35°	7242.4	7240.5	7384.1	7331.9	6882.4	6231.5	5961.0	5938.6	5966.6	6679.1	6664.2
37.5°	7764.6	7813.1	8036.9	8091.0	7680.7	6813.4	6317.3	6151.3	6160.6	6792.9	6705.2
40°	8415.5	8508.8	8842.7	9023.6	8661.7	7676.9	6843.2	6541.1	6542.9	7072.6	6860.0
42.5°	9254.9	9402.2	9713.7	10015.8	9821.9	8699.1	7632.2	7158.4	7154.7	7565.0	7214.4
45°	10275.1	10377.7	10732.1	11211.4	11088.3	10125.9	8781.1	8115.3	8066.8	8372.6	7842.9
47.5°	11155.5	11295.3	11655.3	12201.8	12761.3	11867.9	10153.9	9430.2	9398.5	9657.7	8921.0
50°	11539.7	11662.8	12041.4	12808.0	14163.9	14154.6	12198.1	11349.4	11295.3	11435.2	10588.4
52.5°	11118.1	11233.8	11616.1	12571.1	14824.2	16941.1	15159.9	13757.3	13692.1	13513.0	12580.4
55°	9674.5	9769.6	10334.8	11431.5	14570.5	18798.8	19240.9	16732.2	16478.6	15782.9	14835.4
57.5°	7703.1	7654.6	8005.2	9279.1	13082.1	19421.8	23430.0	20438.3	19985.1	17745.0	16743.4
60°	5338.1	5487.3	5629.0	6468.3	9836.8	18341.9	26035.6	25097.4	24500.6	19675.4	18571.3
62.5°	3924.3	4023.1	4116.4	4504.3	6184.8	14645.1	26496.3	29883.4	29353.7	21725.2	20315.2
65°	3103.6	3111.1	3148.4	3530.7	4075.3	9523.4	24282.4	32582.3	32446.1	23698.6	21022.1
66°	2827.6	2829.4	2887.2	3297.6	3657.6	7755.3	22508.6	32787.4	32862.0	24172.3	20815.1
67.5°	2471.3	2463.9	2547.8	2963.7	3331.2	5591.7	19334.1	31955.6	32397.6	24536.0	20070.9
70°	1915.5	1906.2	2008.8	2486.2	3068.2	3730.3	12850.9	27438.2	28150.7	23791.8	17758.1
72.5°	1275.8	1283.2	1458.5	1962.1	2928.3	3284.5	7731.0	20872.9	21880.1	19647.5	13970.0
75°	744.2	757.3	956.8	1458.5	2542.2	3131.6	4375.6	14883.9	15527.4	13567.1	8702.8
77.5°	389.8	395.4	535.3	962.4	1949.1	2907.8	2915.2	9508.5	9810.7	6593.3	3444.9
80°	207.0	201.4	287.2	580.1	1341.0	2553.4	2365.0	5034.0	5233.6	1958.4	871.0
82.5°	78.3	85.8	152.9	380.5	792.7	1833.4	2036.7	2225.1	2156.1	430.8	365.6
85°	14.9	18.7	65.3	225.7	399.1	766.6	1501.4	1091.1	1010.9	162.3	210.8
87.5°	1.9	3.7	18.7	54.1	57.8	259.3	443.9	302.2	261.1	59.7	87.7
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°	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5	6548.5
2.5°	6552.3	6501.9	6334.0	6168.0	5998.3	5845.4	5740.9	5571.2	5528.3	5466.7	5431.3
5°	6539.2	6421.7	6099.0	5746.5	5418.3	5063.9	4793.4	4532.3	4392.4	4321.5	4295.4
7.5°	6501.9	6315.4	5811.8	5259.7	4733.7	4204.0	3743.4	3392.7	3167.0	3012.2	2907.8
10°	6427.3	6169.9	5477.9	4718.8	3924.3	3224.8	2641.0	2197.1	1854.0	1745.8	1749.5
12.5°	6350.8	6007.6	5104.9	4118.2	3133.4	2251.2	1632.0	1281.4	1117.2	1063.1	1051.9
15°	6280.0	5852.8	4739.3	3536.3	2333.3	1458.5	1051.9	928.8	884.1	874.8	872.9
17.5°	6242.7	5709.2	4349.5	2870.5	1628.3	990.4	843.0	809.5	796.4	787.1	783.4
20°	6210.9	5584.3	3976.5	2247.5	1113.5	811.3	755.4	723.7	701.3	692.0	686.4
22.5°	6188.6	5455.6	3590.4	1740.2	852.4	719.9	669.6	628.6	596.8	585.7	578.2
25°	6155.0	5313.8	3200.6	1272.0	718.1	639.7	581.9	533.4	492.4	471.9	468.2
27.5°	6106.5	5153.4	2773.5	941.9	641.6	568.9	498.0	438.3	397.3	374.9	376.8
30°	6028.2	4985.5	2346.4	747.9	580.1	496.1	419.7	361.8	322.7	305.9	304.0
32.5°	5934.9	4782.2	1954.7	641.6	524.1	430.8	350.6	300.3	270.4	257.4	255.5
35°	5847.2	4577.1	1555.5	576.3	466.3	371.2	294.7	251.8	229.4	218.2	220.1
37.5°	5798.7	4394.3	1212.3	524.1	419.7	318.9	253.7	216.4	195.8	186.5	184.6
40°	5830.5	4245.1	964.3	477.5	367.4	274.2	218.2	186.5	166.0	152.9	152.9
42.5°	5979.7	4179.8	777.8	432.7	318.9	236.9	190.2	160.4	138.0	125.0	126.8
45°	6434.8	4248.8	650.9	391.7	274.2	205.2	164.1	132.4	111.9	102.6	100.7
47.5°	7190.1	4508.1	563.3	348.8	235.0	175.3	138.0	110.0	89.5	82.1	80.2
50°	8510.7	5043.4	498.0	305.9	199.6	149.2	113.8	87.7	70.9	63.4	63.4
52.5°	10327.3	6210.9	451.4	257.4	167.9	126.8	93.3	70.9	56.0	50.4	48.5
55°	12226.0	7441.9	427.1	216.4	139.9	104.4	74.6	56.0	42.9	37.3	35.4
57.5°	14052.0	8408.1	399.1	175.3	111.9	80.2	57.8	42.9	29.8	26.1	24.2
60°	15803.4	9189.6	339.5	139.9	87.7	57.8	42.9	29.8	20.5	16.8	16.8
62.5°	17370.1	9644.7	266.7	111.9	67.1	41.0	28.0	22.4	14.9	11.2	11.2
65°	17552.9	9053.4	201.4	85.8	48.5	26.1	16.8	16.8	11.2	7.5	7.5
66°	17185.5	8551.7	177.2	78.3	42.9	22.4	14.9	13.1	9.3	5.6	5.6
67.5°	16364.8	7695.6	152.9	67.1	35.4	16.8	11.2	11.2	7.5	3.7	3.7
70°	14139.7	6285.5	121.2	50.4	26.1	13.1	7.5	7.5	5.6	3.7	3.7
72.5°	10776.8	4692.7	98.9	37.3	18.7	9.3	5.6	5.6	5.6	3.7	3.7
75°	6500.0	2527.3	76.5	28.0	16.8	7.5	3.7	5.6	7.5	5.6	3.7
77.5°	2394.9	859.8	59.7	22.4	13.1	7.5	3.7	3.7	7.5	5.6	5.6
80°	587.5	223.8	42.9	18.7	13.1	7.5	3.7	3.7	7.5	7.5	7.5
82.5°	272.3	95.1	29.8	16.8	13.1	7.5	3.7	3.7	5.6	7.5	7.5
85°	156.7	44.8	24.2	18.7	13.1	7.5	3.7	3.7	5.6	7.5	7.5
87.5°	63.4	22.4	22.4	18.7	14.9	9.3	3.7	3.7	3.7	5.6	5.6
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)