

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: P456591

Luminaire Tested: **GALN-SA7D-760-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-760-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39559 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

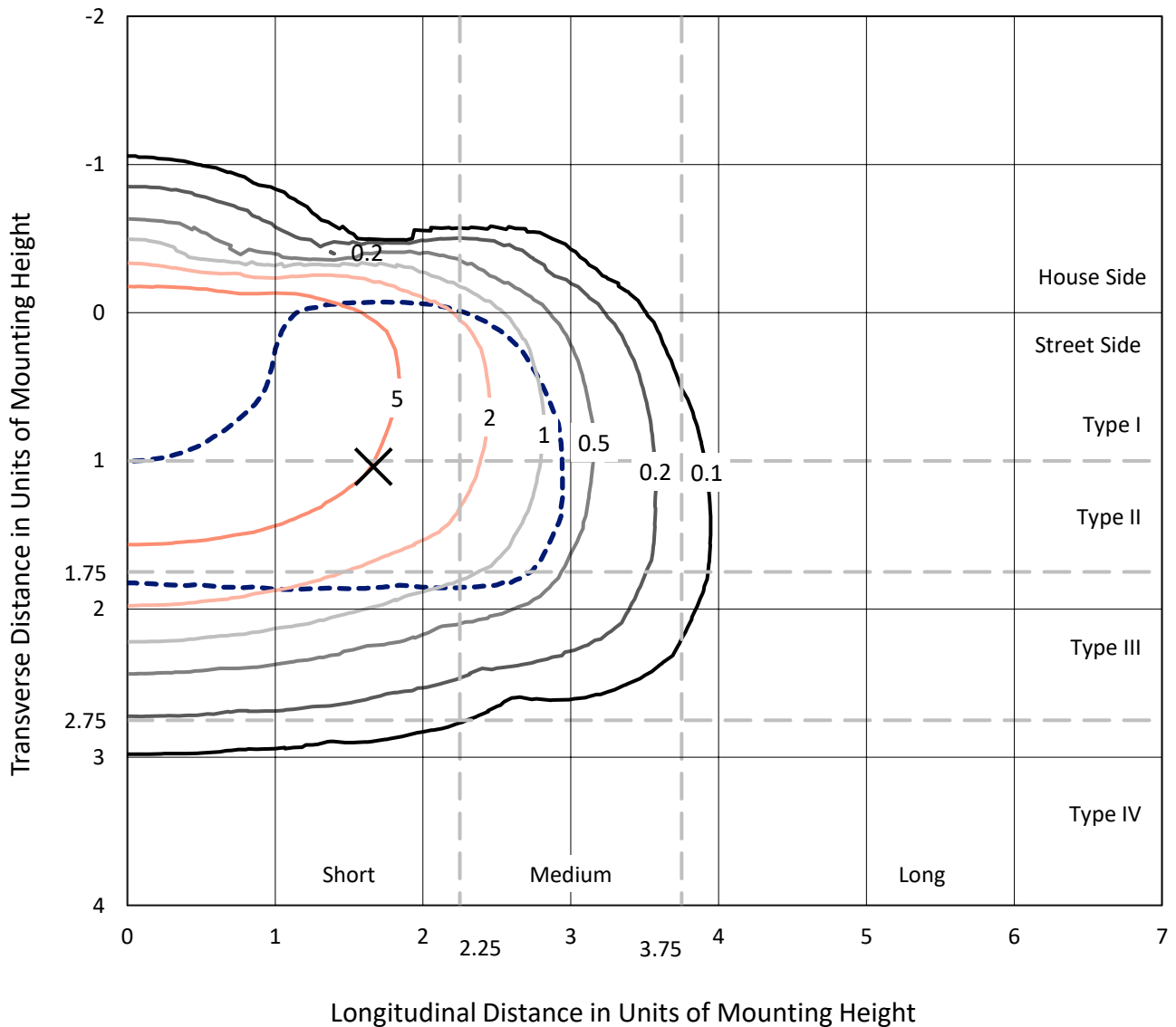
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

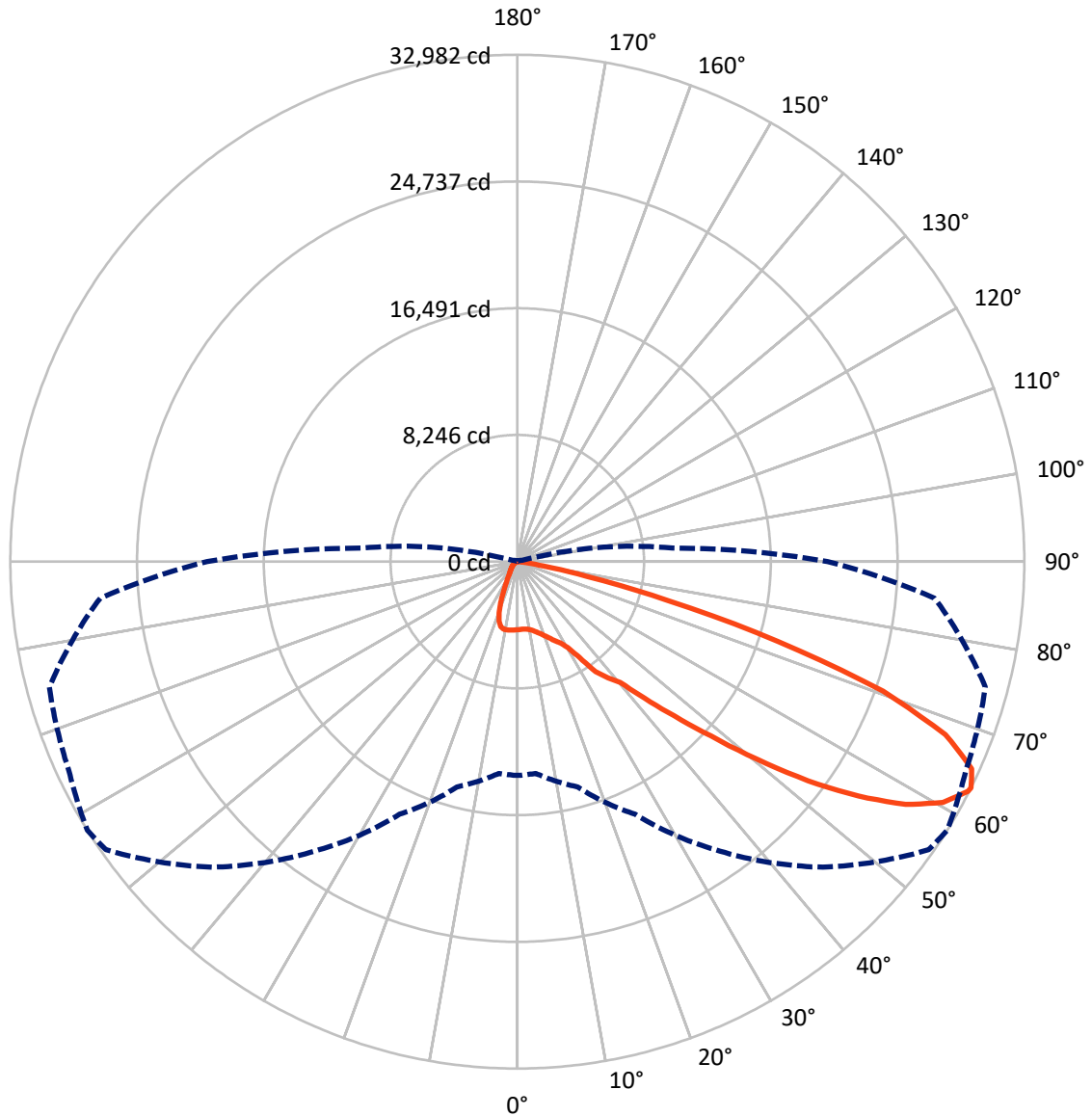
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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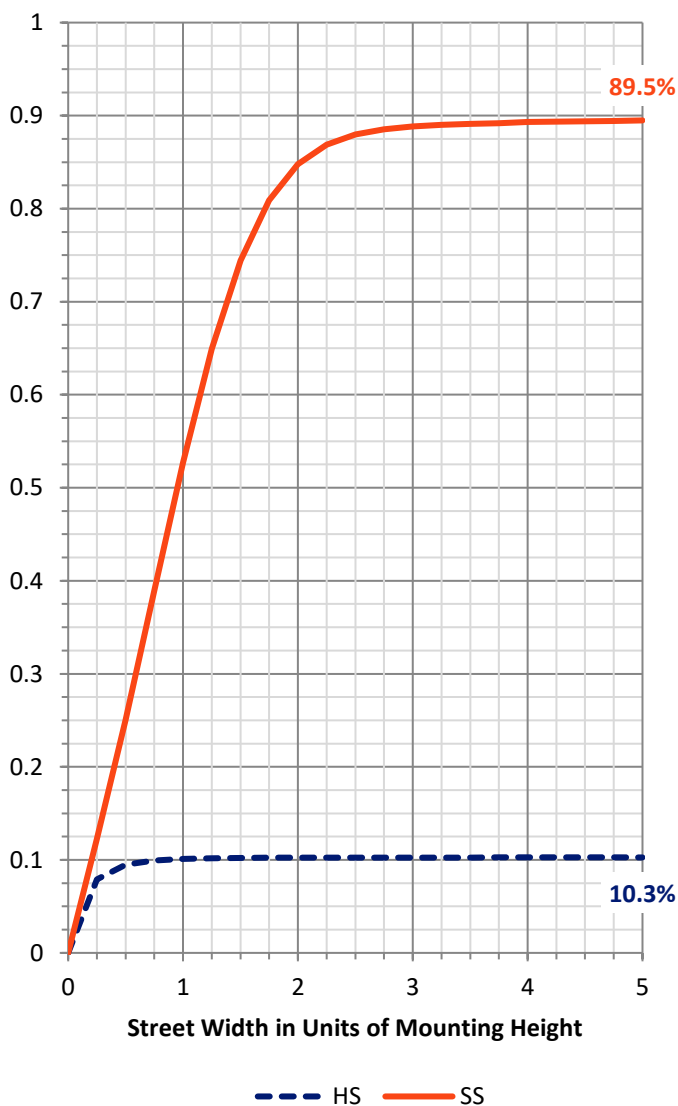
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4096.1	0.0	4096.1
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	35462.9	0.0	35462.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	39559.0	0.0	39559.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.6	1.0
10°-20°	1129.2	2.9
20°-30°	1959.8	5.0
30°-40°	3601.3	9.1
40°-50°	6779.4	17.1
50°-60°	11595.7	29.3
60°-70°	11102.9	28.1
70°-80°	2831.3	7.2
80°-90°	144.8	0.4
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°	39559.0	100.0
0°-180°	39559.0	100.0

**Coefficient of Utilization**



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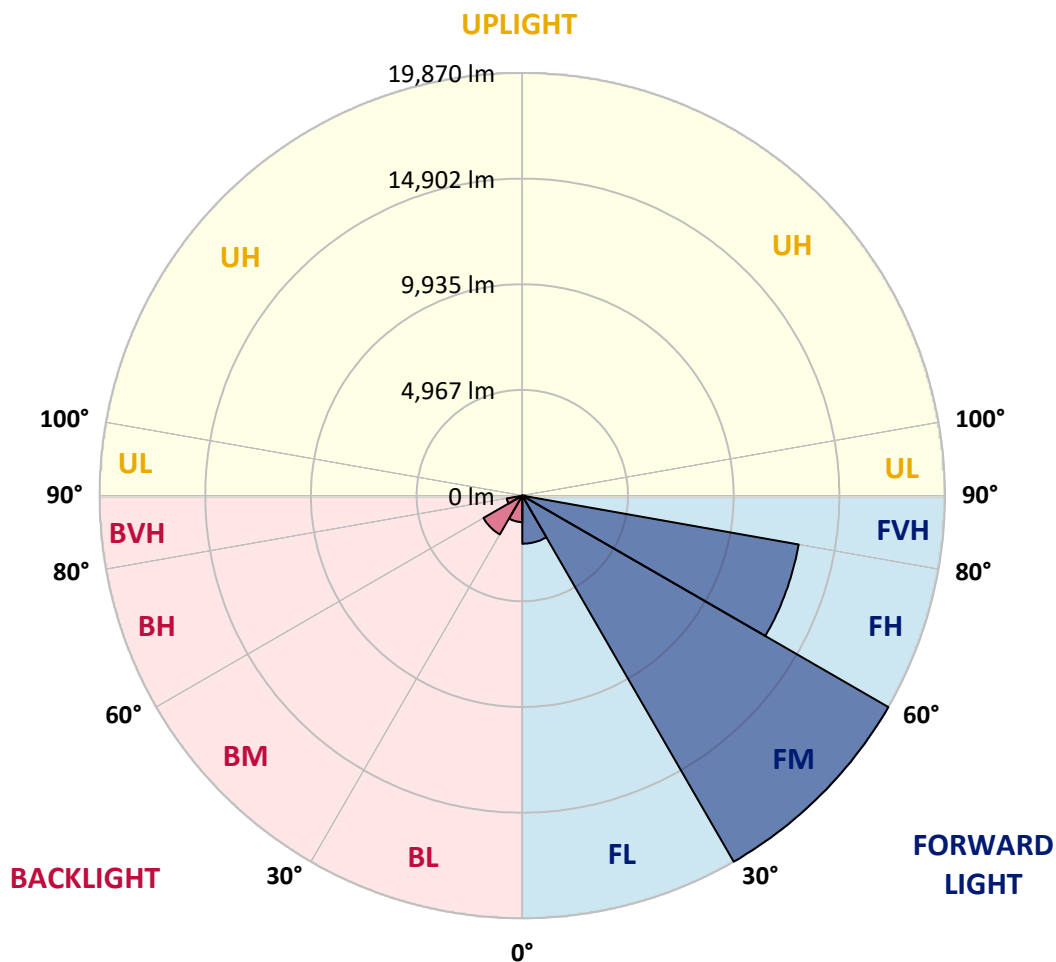
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2261.4	5.7			
FM (30°-60°)	19869.7	50.2			
FH (60°-80°)	13192.7	33.3			G5
FVH (80°-90°)	139.2	0.4			G2/225
BL (0°-30°)	1242.2	3.1	B3/2500		
BM (30°-60°)	2106.8	5.3	B2/2500		
BH (60°-80°)	741.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8
2.5°	4318.6	4333.5	4348.4	4354.3	4375.2	4396.0	4410.9	4407.9	4431.8	4443.7	4443.7
5°	4145.8	4145.8	4184.6	4220.3	4279.9	4339.4	4396.0	4407.9	4452.6	4494.3	4509.2
7.5°	3999.9	4008.8	4038.6	4104.1	4184.6	4288.8	4402.0	4428.8	4506.2	4598.5	4637.3
10°	3931.4	3937.4	3976.1	4044.6	4145.8	4288.8	4446.7	4497.3	4616.4	4762.4	4816.0
12.5°	3916.5	3925.4	3964.2	4041.6	4157.8	4330.5	4544.9	4598.5	4771.3	4958.9	5039.3
15°	3943.3	3949.3	3988.0	4071.4	4199.5	4405.0	4676.0	4750.4	4955.9	5173.4	5277.6
17.5°	4038.6	4032.7	4059.5	4128.0	4270.9	4497.3	4833.8	4923.2	5164.4	5462.3	5530.8
20°	4443.7	4405.0	4381.1	4321.6	4378.2	4628.3	5024.4	5155.5	5453.3	5757.1	5804.8
22.5°	5316.3	5230.0	5060.2	4827.9	4649.2	4807.0	5253.8	5405.7	5789.9	6087.7	6087.7
25°	6427.2	6317.0	6147.3	5641.0	5203.1	5101.9	5512.9	5703.5	6156.2	6457.0	6358.7
27.5°	7818.1	7731.8	7401.2	6811.5	6141.3	5617.1	5813.7	5989.4	6480.9	6844.2	6638.7
30°	8949.9	8908.2	8637.2	8110.0	7371.4	6605.9	6373.6	6489.8	6912.7	7332.7	7121.2
32.5°	9905.9	9905.9	9629.0	9137.5	8446.6	7767.5	7323.7	7407.1	7812.2	8297.6	7904.5
35°	10957.3	10921.6	10698.2	10230.6	9456.2	8857.6	8675.9	8789.1	9155.4	9515.8	8547.8
37.5°	12062.3	12050.3	11818.0	11365.3	10733.9	9980.4	9554.5	9584.3	9771.9	9992.3	9301.3
40°	13262.5	13280.4	12976.6	12696.6	12101.0	11329.6	10513.5	10325.9	10501.6	11124.1	10692.2
42.5°	14680.2	14638.5	14507.5	14126.2	13646.7	13185.1	12205.2	12136.7	12291.6	12958.7	12491.1
45°	16327.2	16386.8	16160.4	15949.0	15627.3	15243.1	14424.1	14304.9	14474.7	15511.2	14847.0
47.5°	17977.2	17920.6	18066.6	18027.9	18200.6	17914.7	17190.9	16946.7	17354.8	18337.6	17360.7
50°	19234.1	19296.6	19600.4	20044.2	20785.8	20946.6	20252.7	20169.3	20351.0	20982.4	19609.4
52.5°	20050.1	20258.6	20735.2	21875.9	23213.1	24252.6	23725.4	23680.7	23606.3	23776.0	21759.7
55°	20583.3	20794.7	21417.2	23097.0	25399.2	27088.0	27114.8	26924.1	26432.7	26310.6	23770.1
57.5°	20255.7	20297.3	21184.9	23430.6	26611.4	29110.2	29985.9	29795.3	28886.9	28425.2	25545.2
60°	18206.6	18292.9	19528.9	22167.7	26084.3	29771.4	31889.0	31802.7	30807.9	30286.7	26927.1
62.5°	14576.0	14826.1	16097.9	19040.5	23633.1	28657.5	32660.4	32904.6	32130.3	31412.5	27362.0
63°	13908.8	13828.4	15171.6	18129.1	22983.8	28106.5	32672.3	32982.1	32189.8	31519.7	27242.8
65°	10296.1	10537.3	11410.0	14296.0	19126.9	25542.2	31936.7	32484.7	31969.4	31046.2	25923.4
67.5°	5780.9	5769.0	6734.0	9354.9	13387.6	20035.3	28877.9	30036.5	29929.3	27859.3	21488.7
70°	2829.4	2874.1	3270.2	4848.7	7764.5	13822.4	23996.4	25247.3	25286.1	21881.8	14858.9
72.5°	1280.7	1301.5	1584.5	2361.8	3991.0	7359.5	16535.7	17730.0	17509.6	13944.6	8205.3
75°	676.1	720.8	872.7	1188.4	1924.0	3034.9	8994.6	10150.2	9688.5	6370.7	3020.0
77.5°	500.4	515.3	592.7	756.5	1030.5	1182.4	3880.8	4616.4	4324.5	2305.2	1000.7
80°	366.3	378.2	440.8	536.1	649.3	601.6	1462.4	1676.8	1504.1	783.3	306.8
82.5°	223.4	226.4	321.7	399.1	408.0	336.6	482.5	518.2	542.1	440.8	166.8
85°	80.4	101.3	217.4	288.9	241.2	169.8	202.5	223.4	244.2	280.0	98.3
87.5°	8.9	11.9	104.2	140.0	68.5	62.5	74.5	83.4	89.4	104.2	47.7
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°	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8	4428.8
2.5°	4455.6	4467.5	4458.6	4443.7	4440.7	4431.8	4413.9	4413.9	4413.9	4419.8	4413.9
5°	4521.1	4530.0	4509.2	4479.4	4446.7	4405.0	4360.3	4333.5	4330.5	4324.5	4309.6
7.5°	4646.2	4658.1	4610.5	4539.0	4449.6	4348.4	4253.1	4163.7	4122.0	4089.3	4089.3
10°	4827.9	4839.8	4744.5	4616.4	4437.7	4232.2	4005.9	3800.4	3639.5	3565.1	3547.2
12.5°	5045.3	5051.3	4893.4	4670.0	4375.2	3979.1	3496.6	3046.8	2734.1	2591.2	2576.3
15°	5283.6	5241.9	5033.4	4690.9	4196.5	3457.8	2623.9	2072.9	1748.3	1653.0	1688.7
17.5°	5524.8	5447.4	5140.6	4658.1	3794.4	2623.9	1763.2	1414.7	1313.4	1286.6	1286.6
20°	5751.2	5643.9	5218.0	4515.2	3097.5	1807.8	1307.5	1224.1	1206.2	1188.4	1191.3
22.5°	5977.5	5813.7	5286.5	4196.5	2308.2	1292.6	1170.5	1143.7	1119.9	1096.0	1093.0
25°	6197.9	5971.6	5313.3	3606.8	1572.6	1110.9	1069.2	1033.5	985.8	959.0	953.1
27.5°	6427.2	6162.2	5295.5	2862.2	1146.7	994.8	953.1	902.4	845.8	798.2	798.2
30°	6868.0	6525.5	5232.9	2058.0	965.0	875.6	822.0	741.6	679.1	631.4	628.4
32.5°	7469.7	6999.1	5018.5	1447.5	857.8	771.4	691.0	601.6	536.1	500.4	500.4
35°	8005.8	7475.6	4616.4	1066.2	771.4	670.1	571.8	485.5	434.8	411.0	402.1
37.5°	8821.8	8172.5	4062.4	866.7	688.0	580.8	479.5	399.1	357.4	339.5	339.5
40°	10045.9	9024.4	3383.4	759.5	607.6	494.4	399.1	336.6	303.8	282.9	282.9
42.5°	11564.9	10066.8	2695.4	682.0	533.1	425.9	333.6	285.9	256.1	241.2	238.3
45°	13477.0	11165.8	2075.9	610.6	473.6	363.4	282.9	241.2	211.5	202.5	205.5
47.5°	15472.4	12133.7	1608.3	548.0	411.0	306.8	241.2	208.5	187.6	175.7	175.7
50°	17176.1	12800.9	1221.1	476.5	363.4	259.1	211.5	187.6	169.8	163.8	160.8
52.5°	18599.7	12994.5	935.2	414.0	318.7	223.4	187.6	169.8	154.9	145.9	145.9
55°	19811.9	12824.7	732.7	348.5	268.1	193.6	166.8	151.9	134.0	125.1	122.1
57.5°	20520.7	12279.7	559.9	288.9	217.4	160.8	145.9	128.1	107.2	92.3	92.3
60°	20878.1	11487.4	428.9	238.3	166.8	128.1	119.1	95.3	74.5	62.5	59.6
62.5°	20449.2	10436.1	324.6	187.6	125.1	95.3	80.4	68.5	47.7	35.7	35.7
63°	20184.2	10132.3	312.7	178.7	116.2	89.4	74.5	62.5	41.7	32.8	29.8
65°	18400.1	8806.9	256.1	143.0	92.3	62.5	50.6	44.7	29.8	14.9	11.9
67.5°	14611.7	6737.0	202.5	107.2	65.5	44.7	29.8	26.8	8.9	0.0	0.0
70°	9879.1	4351.3	157.9	77.4	44.7	26.8	14.9	11.9	3.0	0.0	0.0
72.5°	5152.5	2230.8	122.1	56.6	26.8	17.9	8.9	3.0	0.0	0.0	0.0
75°	1822.7	759.5	89.4	35.7	17.9	8.9	3.0	0.0	0.0	0.0	0.0
77.5°	551.0	282.9	56.6	26.8	11.9	6.0	0.0	0.0	0.0	0.0	0.0
80°	193.6	104.2	32.8	17.9	8.9	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	95.3	50.6	20.8	14.9	8.9	3.0	0.0	0.0	0.0	0.0	0.0
85°	53.6	32.8	17.9	14.9	8.9	6.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.7	23.8	17.9	14.9	11.9	6.0	3.0	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)