

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: P458389

Luminaire Tested: **GALN-SA9D-740-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458389  
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-SA9D-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 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: 51489 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

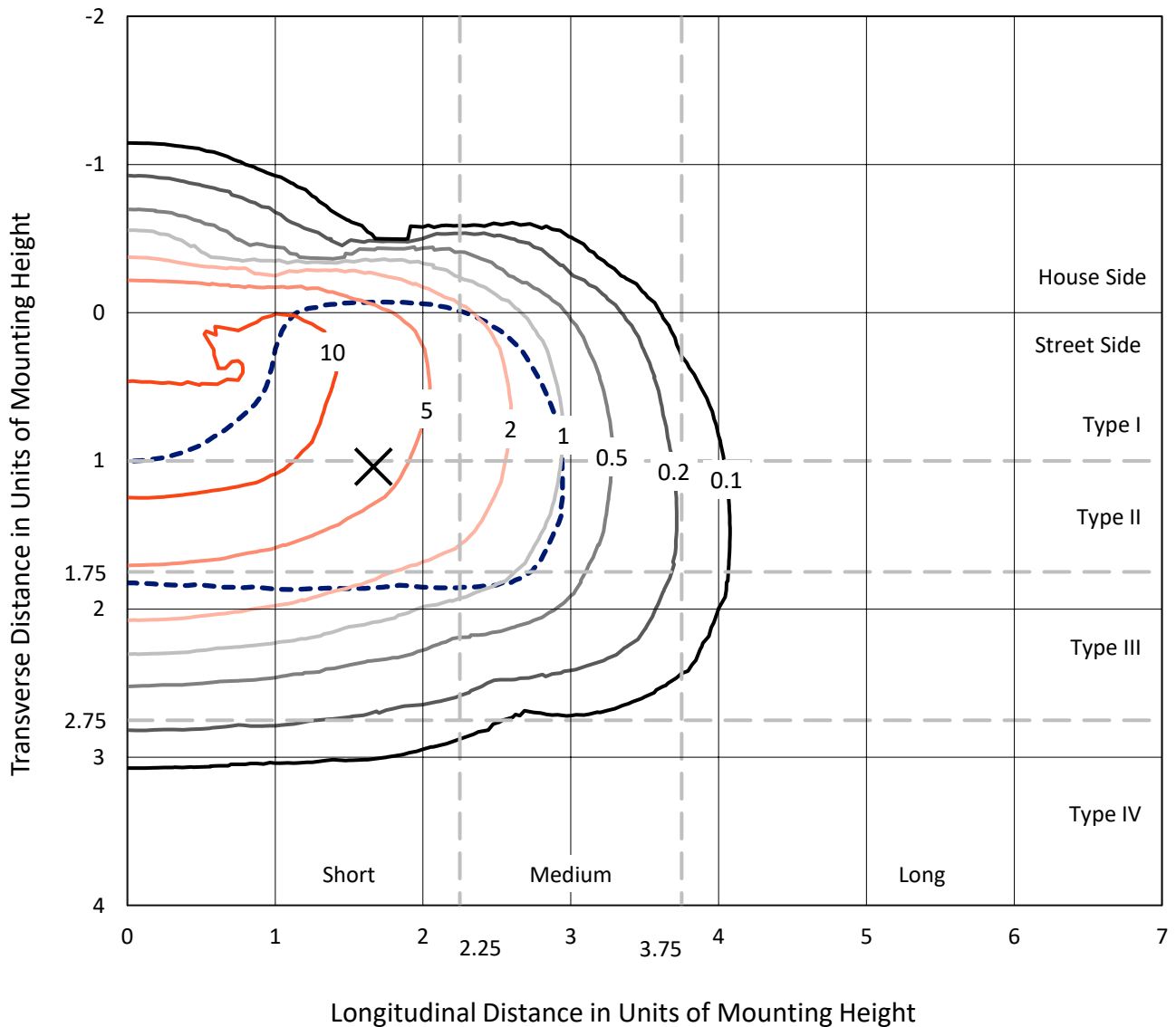
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

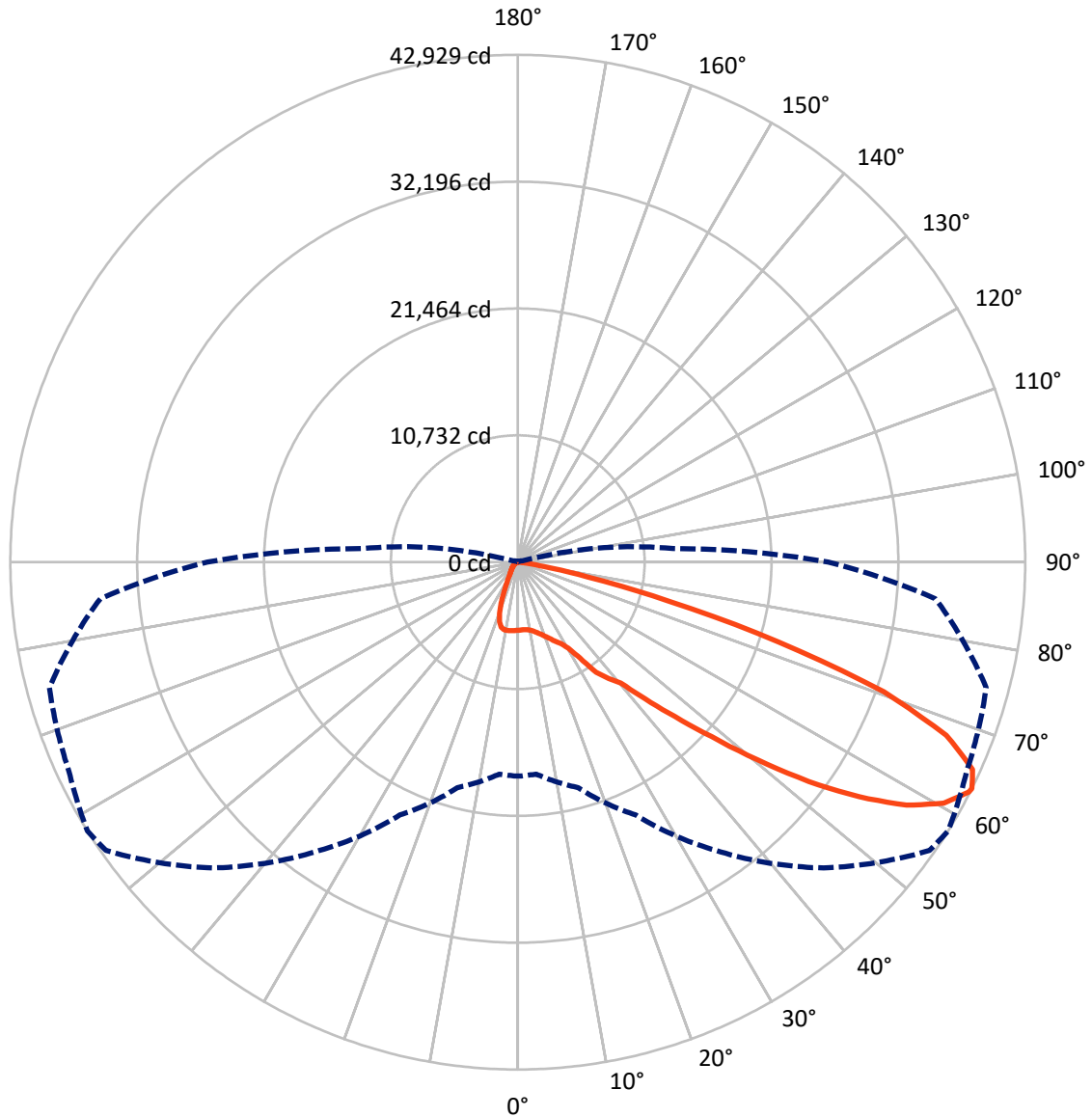
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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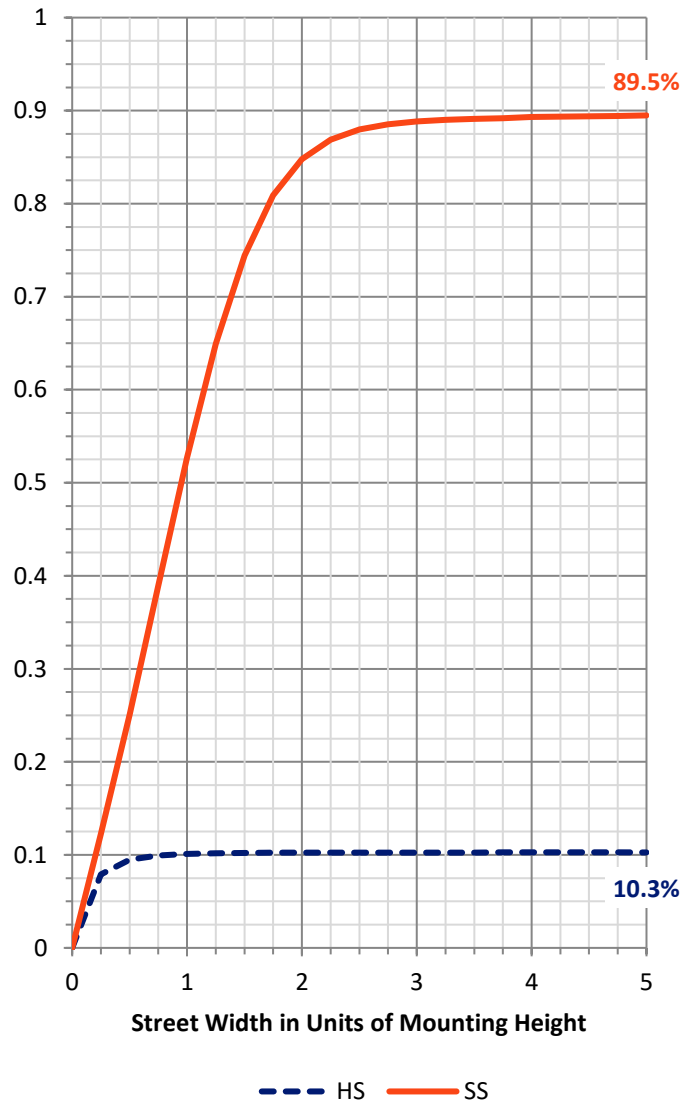
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5331.4	0.0	5331.4
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	46157.6	0.0	46157.6
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	51489.0	0.0	51489.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.6	1.0
10°-20°	1469.8	2.9
20°-30°	2550.8	5.0
30°-40°	4687.4	9.1
40°-50°	8823.9	17.1
50°-60°	15092.7	29.3
60°-70°	14451.3	28.1
70°-80°	3685.1	7.2
80°-90°	188.4	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°	51489.0	100.0
0°-180°	51489.0	100.0

**Coefficient of Utilization**



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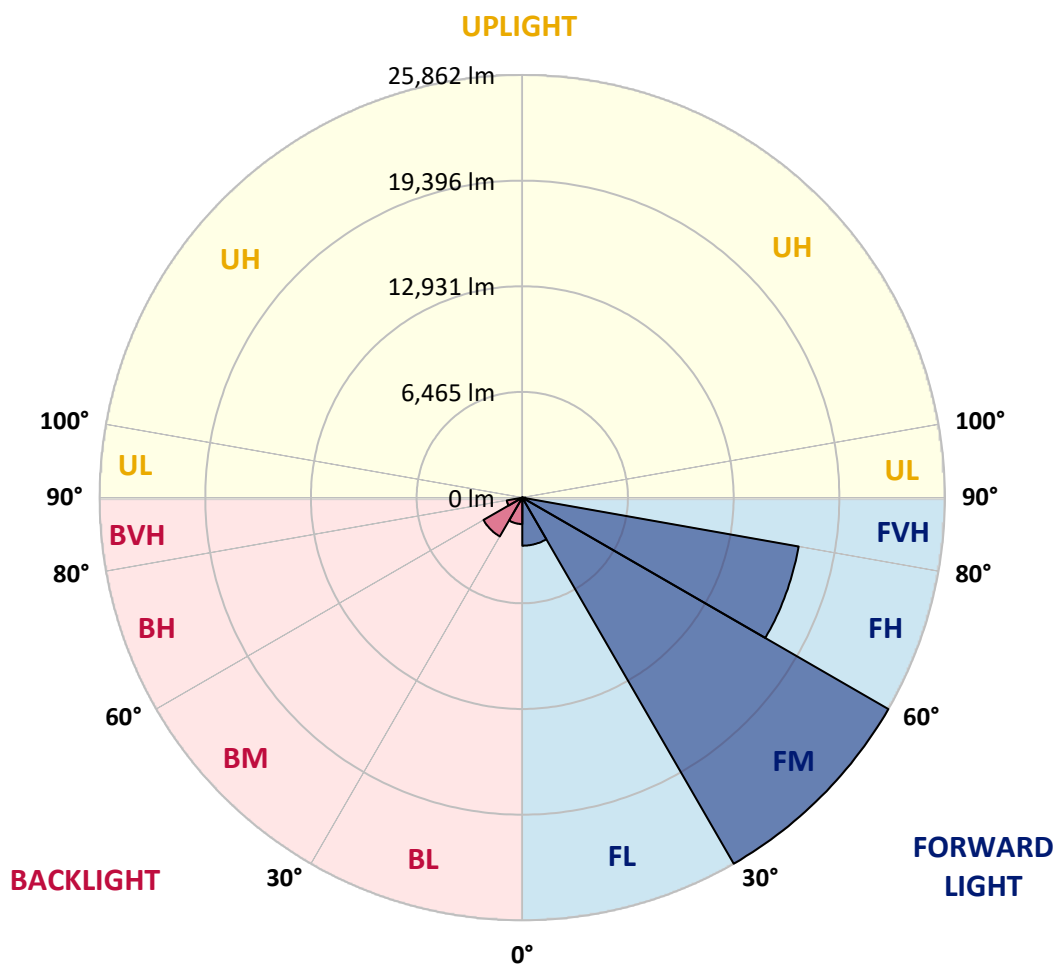
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2943.3	5.7			
FM (30°-60°)	25861.9	50.2			
FH (60°-80°)	17171.3	33.3			G5
FVH (80°-90°)	181.1	0.4			G2/225
BL (0°-30°)	1616.8	3.1	B3/2500		
BM (30°-60°)	2742.1	5.3	B3/5000		
BH (60°-80°)	965.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	7.3	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°	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4
2.5°	5621.0	5640.3	5659.7	5667.5	5694.6	5721.8	5741.1	5737.3	5768.3	5783.8	5783.8
5°	5396.1	5396.1	5446.5	5493.0	5570.6	5648.1	5721.8	5737.3	5795.4	5849.7	5869.1
7.5°	5206.2	5217.8	5256.6	5341.9	5446.5	5582.2	5729.5	5764.4	5865.2	5985.4	6035.7
10°	5117.0	5124.8	5175.2	5264.3	5396.1	5582.2	5787.7	5853.6	6008.6	6198.6	6268.3
12.5°	5097.6	5109.3	5159.7	5260.4	5411.6	5636.5	5915.6	5985.4	6210.2	6454.4	6559.1
15°	5132.5	5140.3	5190.7	5299.2	5465.9	5733.4	6086.1	6183.1	6450.5	6733.5	6869.2
17.5°	5256.6	5248.8	5283.7	5372.9	5558.9	5853.6	6291.6	6407.9	6721.9	7109.5	7198.7
20°	5783.8	5733.4	5702.4	5624.8	5698.5	6024.1	6539.7	6710.3	7097.9	7493.3	7555.3
22.5°	6919.6	6807.2	6586.2	6283.8	6051.3	6256.7	6838.2	7035.9	7536.0	7923.6	7923.6
25°	8365.5	8222.1	8001.1	7342.1	6772.3	6640.5	7175.4	7423.5	8012.8	8404.3	8276.4
27.5°	10175.9	10063.5	9633.2	8865.6	7993.4	7311.1	7567.0	7795.7	8435.3	8908.3	8640.8
30°	11649.0	11594.7	11241.9	10555.8	9594.4	8598.1	8295.8	8446.9	8997.4	9544.0	9268.8
32.5°	12893.3	12893.3	12532.8	11893.2	10993.8	10110.0	9532.4	9640.9	10168.1	10800.0	10288.3
35°	14261.7	14215.2	13924.5	13315.9	12308.0	11528.8	11292.3	11439.6	11916.4	12385.5	11125.6
37.5°	15699.9	15684.4	15382.1	14792.8	13971.0	12990.2	12435.9	12474.7	12718.9	13005.7	12106.4
40°	17262.2	17285.4	16890.0	16525.6	15750.3	14746.3	13684.1	13439.9	13668.6	14478.8	13916.7
42.5°	19107.4	19053.1	18882.6	18386.4	17762.2	17161.4	15886.0	15796.8	15998.4	16866.8	16258.1
45°	21251.1	21328.6	21034.0	20758.8	20340.1	19840.1	18774.0	18618.9	18839.9	20188.9	19324.5
47.5°	23398.7	23325.1	23515.0	23464.6	23689.4	23317.3	22375.3	22057.4	22588.5	23867.8	22596.3
50°	25034.6	25116.0	25511.4	26089.0	27054.3	27263.6	26360.4	26251.8	26488.3	27310.1	25523.0
52.5°	26096.8	26368.1	26988.4	28473.1	30213.6	31566.5	30880.4	30822.3	30725.3	30946.3	28321.9
55°	26790.7	27065.9	27876.1	30062.5	33059.0	35257.0	35291.9	35043.8	34404.2	34245.2	30938.5
57.5°	26364.2	26418.5	27573.7	30496.6	34636.8	37889.2	39028.9	38780.8	37598.4	36997.6	33249.0
60°	23697.2	23809.6	25418.4	28853.0	33950.6	38749.7	41506.0	41393.5	40098.8	39420.4	35047.7
62.5°	18971.7	19297.3	20952.6	24782.6	30760.2	37299.9	42510.0	42827.8	41820.0	40885.7	35613.6
63°	18103.4	17998.7	19747.0	23596.4	29915.1	36582.8	42525.5	42928.6	41897.5	41025.3	35458.6
65°	13401.1	13715.1	14851.0	18607.3	24895.0	33245.1	41568.0	42281.3	41610.6	40408.9	33741.3
67.5°	7524.3	7508.8	8764.8	12176.2	17425.0	26077.4	37586.8	39094.8	38955.2	36261.0	27969.1
70°	3682.7	3740.8	4256.4	6311.0	10106.1	17991.0	31233.2	32861.3	32911.7	28480.8	19340.0
72.5°	1666.9	1694.0	2062.3	3074.1	5194.5	9578.9	21522.5	23077.0	22790.1	18149.9	10679.8
75°	880.0	938.1	1135.8	1546.7	2504.2	3950.2	11707.1	13211.2	12610.3	8291.9	3930.8
77.5°	651.3	670.6	771.4	984.6	1341.3	1539.0	5051.1	6008.6	5628.7	3000.4	1302.5
80°	476.8	492.3	573.7	697.8	845.1	783.1	1903.4	2182.5	1957.6	1019.5	399.3
82.5°	290.7	294.6	418.7	519.5	531.1	438.0	628.0	674.5	705.5	573.7	217.1
85°	104.7	131.8	283.0	376.0	314.0	221.0	263.6	290.7	317.9	364.4	127.9
87.5°	11.6	15.5	135.7	182.2	89.2	81.4	96.9	108.5	116.3	135.7	62.0
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°	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4	5764.4
2.5°	5799.3	5814.8	5803.2	5783.8	5779.9	5768.3	5745.0	5745.0	5745.0	5752.8	5745.0
5°	5884.6	5896.2	5869.1	5830.3	5787.7	5733.4	5675.2	5640.3	5636.5	5628.7	5609.3
7.5°	6047.4	6062.9	6000.9	5907.8	5791.5	5659.7	5535.7	5419.4	5365.1	5322.5	5322.5
10°	6283.8	6299.4	6175.3	6008.6	5776.0	5508.5	5213.9	4946.4	4737.1	4640.2	4616.9
12.5°	6566.8	6574.6	6369.1	6078.4	5694.6	5179.0	4551.0	3965.7	3558.6	3372.6	3353.2
15°	6877.0	6822.7	6551.3	6105.5	5462.0	4500.6	3415.2	2698.1	2275.5	2151.5	2198.0
17.5°	7191.0	7090.2	6690.9	6062.9	4938.7	3415.2	2294.9	1841.3	1709.5	1674.7	1674.7
20°	7485.6	7346.0	6791.7	5876.8	4031.6	2353.1	1701.8	1593.3	1570.0	1546.7	1550.6
22.5°	7780.2	7567.0	6880.8	5462.0	3004.3	1682.4	1523.5	1488.6	1457.6	1426.6	1422.7
25°	8067.0	7772.4	6915.7	4694.5	2046.8	1445.9	1391.7	1345.2	1283.1	1248.2	1240.5
27.5°	8365.5	8020.5	6892.5	3725.3	1492.5	1294.8	1240.5	1174.6	1100.9	1038.9	1038.9
30°	8939.3	8493.5	6811.1	2678.7	1256.0	1139.7	1069.9	965.3	883.8	821.8	817.9
32.5°	9722.3	9109.8	6531.9	1884.0	1116.4	1004.0	899.4	783.1	697.8	651.3	651.3
35°	10420.1	9730.1	6008.6	1387.8	1004.0	872.2	744.3	631.9	566.0	535.0	523.3
37.5°	11482.3	10637.2	5287.6	1128.1	895.5	755.9	624.1	519.5	465.2	441.9	441.9
40°	13075.5	11745.9	4403.7	988.5	790.8	643.5	519.5	438.0	395.4	368.3	368.3
42.5°	15052.5	13102.7	3508.3	887.7	693.9	554.3	434.2	372.1	333.4	314.0	310.1
45°	17541.3	14533.1	2701.9	794.7	616.4	472.9	368.3	314.0	275.2	263.6	267.5
47.5°	20138.5	15793.0	2093.3	713.3	535.0	399.3	314.0	271.4	244.2	228.7	228.7
50°	22355.9	16661.3	1589.4	620.2	472.9	337.3	275.2	244.2	221.0	213.2	209.3
52.5°	24208.9	16913.3	1217.2	538.8	414.8	290.7	244.2	221.0	201.6	189.9	189.9
55°	25786.6	16692.3	953.6	453.6	348.9	252.0	217.1	197.7	174.4	162.8	158.9
57.5°	26709.3	15982.9	728.8	376.0	283.0	209.3	189.9	166.7	139.6	120.2	120.2
60°	27174.4	14951.8	558.2	310.1	217.1	166.7	155.1	124.0	96.9	81.4	77.5
62.5°	26616.2	13583.3	422.5	244.2	162.8	124.0	104.7	89.2	62.0	46.5	46.5
63°	26271.2	13187.9	407.0	232.6	151.2	116.3	96.9	81.4	54.3	42.6	38.8
65°	23949.2	11462.9	333.4	186.1	120.2	81.4	65.9	58.1	38.8	19.4	15.5
67.5°	19018.2	8768.7	263.6	139.6	85.3	58.1	38.8	34.9	11.6	0.0	0.0
70°	12858.4	5663.6	205.5	100.8	58.1	34.9	19.4	15.5	3.9	0.0	0.0
72.5°	6706.4	2903.5	158.9	73.7	34.9	23.3	11.6	3.9	0.0	0.0	0.0
75°	2372.4	988.5	116.3	46.5	23.3	11.6	3.9	0.0	0.0	0.0	0.0
77.5°	717.2	368.3	73.7	34.9	15.5	7.8	0.0	0.0	0.0	0.0	0.0
80°	252.0	135.7	42.6	23.3	11.6	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	124.0	65.9	27.1	19.4	11.6	3.9	0.0	0.0	0.0	0.0	0.0
85°	69.8	42.6	23.3	19.4	11.6	7.8	0.0	0.0	0.0	0.0	0.0
87.5°	50.4	31.0	23.3	19.4	15.5	7.8	3.9	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)