

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: P457881

Luminaire Tested: **GALN-SA9B-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457881  
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-SA9B-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 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: 38449 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 364  
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

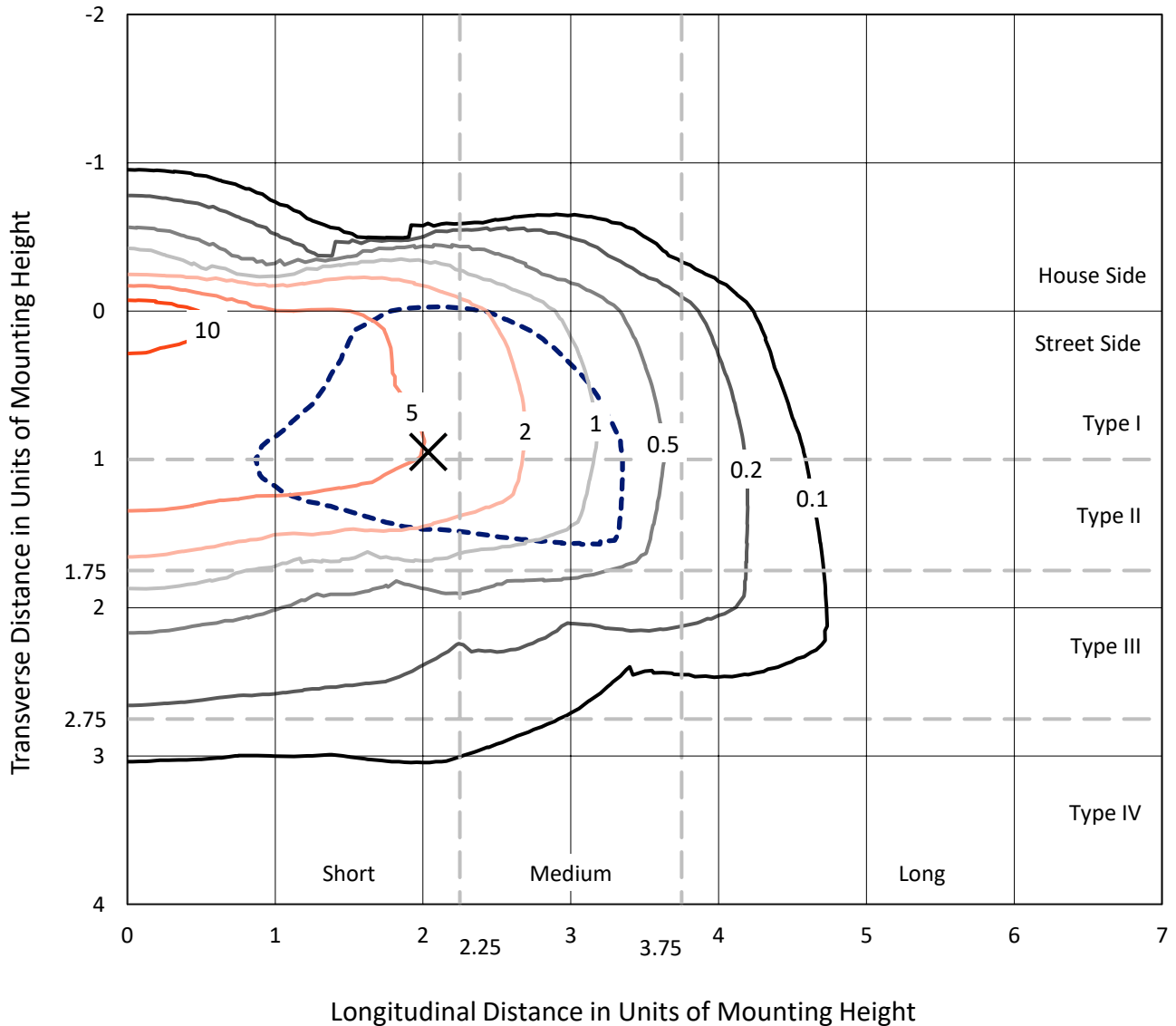




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### Iso-Footcandle Lines of Horizontal Illumination

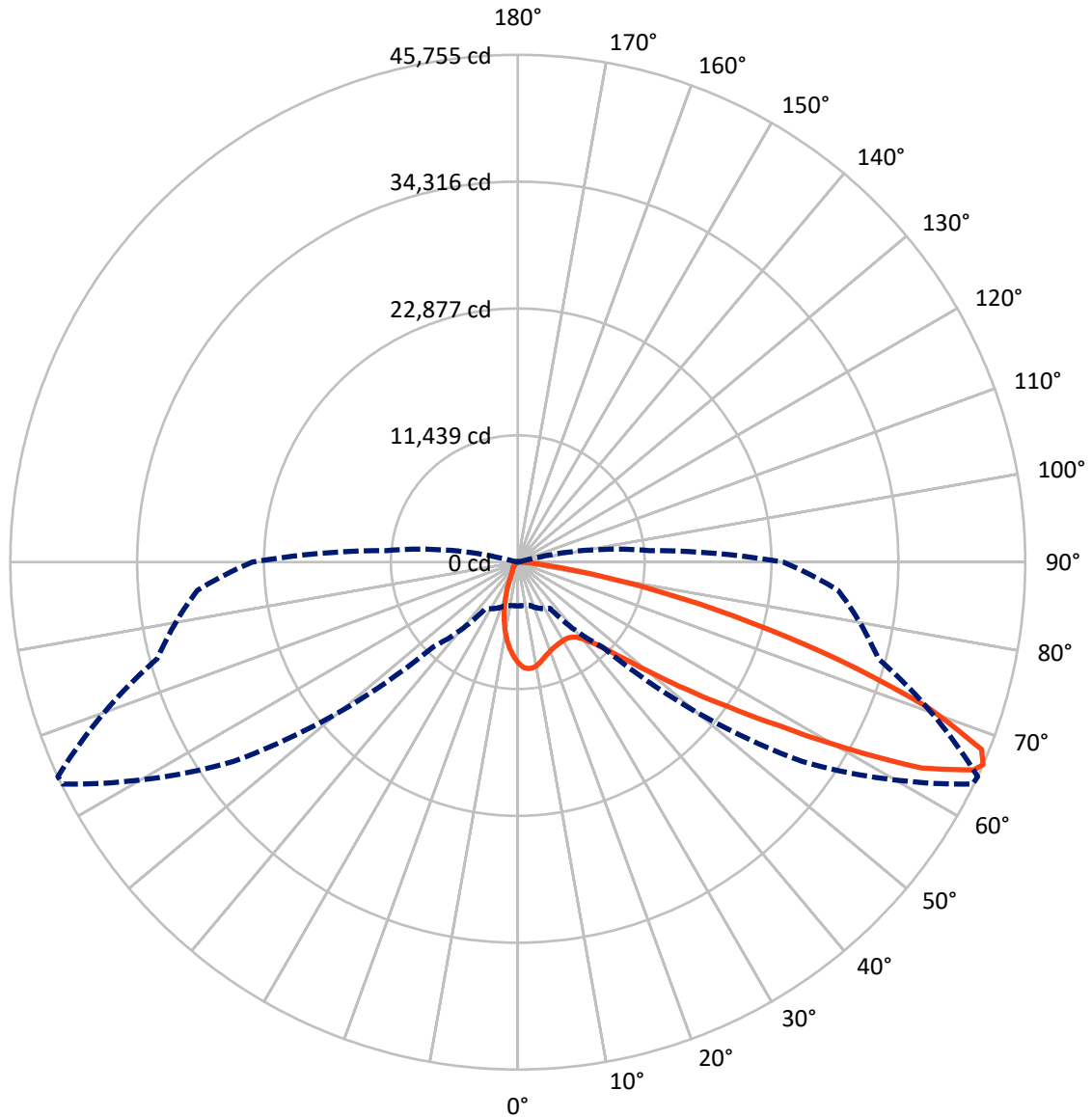
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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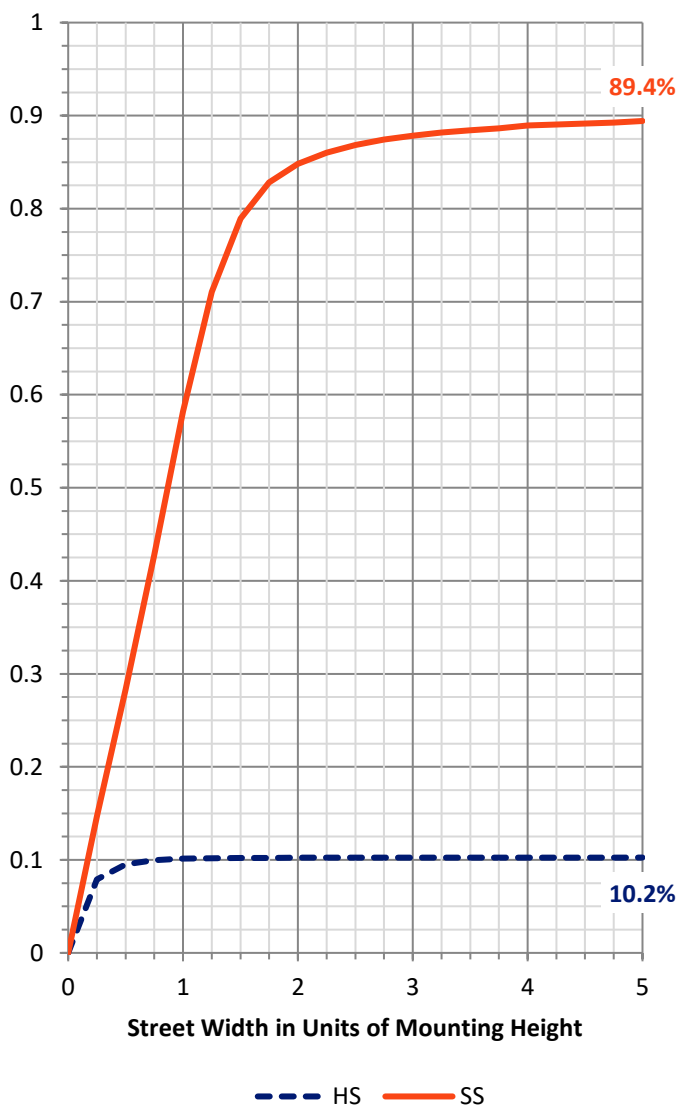
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3976.2	0.0	3976.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	34472.8	0.0	34472.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	38449.0	0.0	38449.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.7	1.9
10°-20°	1624.7	4.2
20°-30°	2327.4	6.1
30°-40°	3399.4	8.8
40°-50°	5700.3	14.8
50°-60°	9512.8	24.7
60°-70°	10097.6	26.3
70°-80°	4573.2	11.9
80°-90°	467.9	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°	38449.0	100.0
0°-180°	38449.0	100.0

**Coefficient of Utilization**



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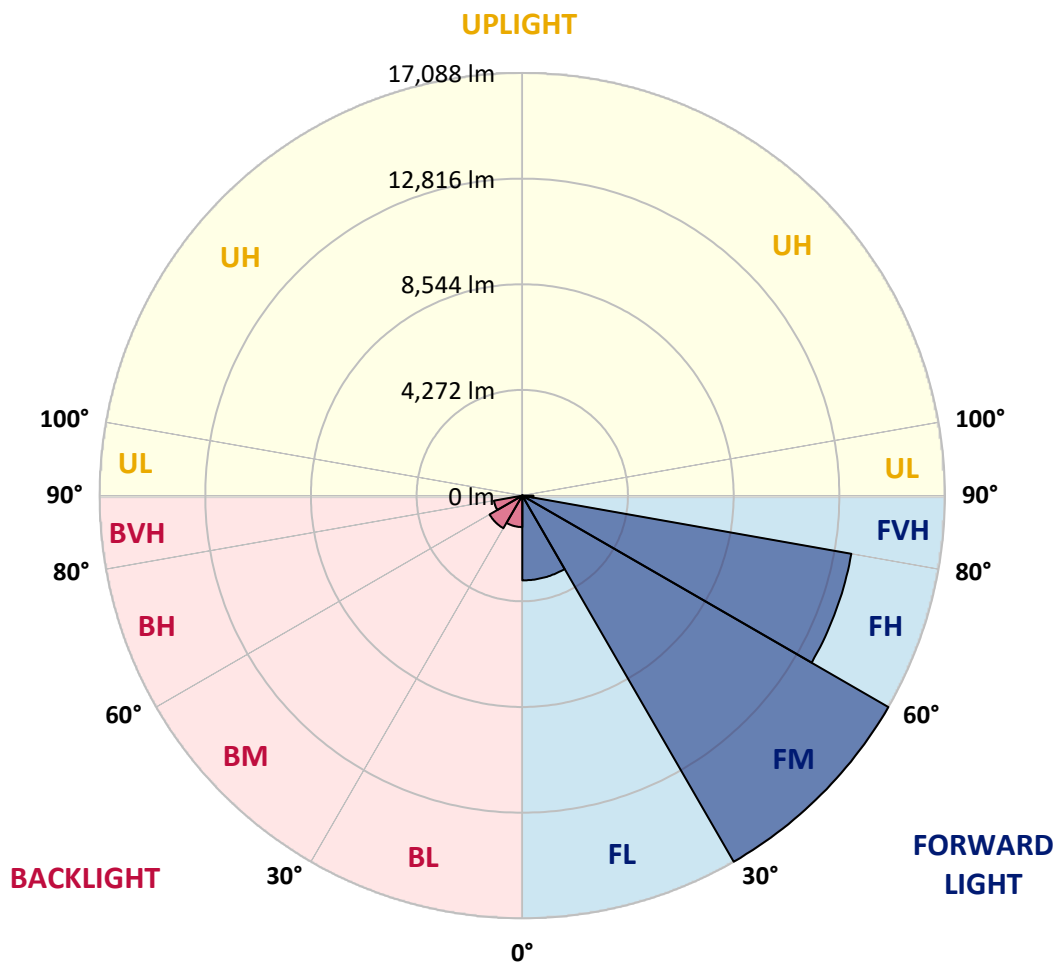
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3425.9	8.9			
FM	(30°-60°)	17087.6	44.4			
FH	(60°-80°)	13506.3	35.1			G5
FVH	(80°-90°)	453.0	1.2			G3/500
BL	(0°-30°)	1271.9	3.3	B3/2500		
BM	(30°-60°)	1524.9	4.0	B2/2500		
BH	(60°-80°)	1164.5	3.0	B3/2500		G3/2500
BVH	(80°-90°)	14.9	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-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7
2.5°	9608.5	9618.9	9631.9	9650.0	9663.0	9624.1	9569.5	9507.2	9494.2	9361.8	9200.8
5°	9094.3	9109.9	9224.1	9286.5	9426.7	9554.0	9634.5	9644.8	9639.7	9515.0	9257.9
7.5°	8362.0	8406.1	8517.8	8626.9	8889.1	9130.7	9416.3	9616.3	9629.3	9595.5	9276.1
10°	7767.3	7795.9	7853.0	8068.5	8286.7	8655.4	9055.4	9431.9	9463.1	9598.1	9260.5
12.5°	7302.5	7344.0	7414.1	7580.3	7842.6	8190.6	8645.0	9151.4	9216.4	9548.8	9216.4
15°	6977.8	6998.6	7068.7	7232.3	7486.8	7808.8	8268.5	8858.0	8915.1	9483.8	9208.6
17.5°	6824.6	6848.0	6897.3	7027.2	7237.5	7536.2	7985.4	8621.7	8694.4	9442.3	9237.1
20°	6866.2	6886.9	6889.5	6957.1	7099.9	7351.8	7777.7	8400.9	8494.4	9416.3	9283.9
22.5°	7102.5	7105.1	7073.9	7042.8	7092.1	7273.9	7650.4	8260.7	8356.8	9411.1	9338.4
25°	7455.7	7463.5	7411.5	7302.5	7203.8	7297.3	7621.9	8169.8	8255.5	9398.1	9372.2
27.5°	7943.9	7941.3	7925.7	7743.9	7463.5	7401.1	7645.2	8120.5	8193.2	9361.8	9385.2
30°	8626.9	8606.1	8572.3	8367.2	7938.7	7653.0	7743.9	8089.3	8156.8	9309.8	9351.4
32.5°	9299.5	9377.4	9372.2	9177.4	8642.4	8102.3	7949.1	8130.9	8180.2	9276.1	9302.1
35°	10083.7	10081.1	10281.1	10208.4	9582.5	8676.2	8299.7	8268.5	8307.4	9299.5	9278.7
37.5°	10810.8	10878.4	11190.0	11265.3	10694.0	9486.4	8795.7	8564.5	8577.5	9457.9	9335.8
40°	11717.2	11847.0	12311.8	12563.7	12060.0	10688.8	9528.0	9107.3	9109.9	9847.4	9551.4
42.5°	12885.8	13090.9	13524.6	13945.3	13675.2	12111.9	10626.5	9966.9	9961.7	10533.0	10044.8
45°	14306.3	14449.1	14942.5	15609.9	15438.5	14098.5	12226.2	11299.1	11231.5	11657.4	10919.9
47.5°	15532.0	15726.8	16228.0	16988.8	17767.9	16524.0	14137.5	13129.9	13085.7	13446.7	12420.9
50°	16066.9	16238.3	16765.5	17832.8	19720.8	19707.8	16983.7	15802.1	15726.8	15921.5	14742.5
52.5°	15480.1	15641.1	16173.4	17503.0	20640.1	23587.5	21107.5	19154.7	19063.8	18814.5	17516.0
55°	13470.1	13602.5	14389.4	15916.3	20286.9	26174.0	26789.5	23296.7	22943.5	21974.9	20655.7
57.5°	10725.1	10657.6	11145.8	12919.5	18214.6	27041.4	32622.1	28456.7	27825.7	24706.8	23312.3
60°	7432.3	7640.0	7837.4	9006.0	13696.0	25537.8	36250.0	34943.7	34112.7	27394.6	25857.2
62.5°	5463.9	5601.5	5731.3	6271.5	8611.3	20390.8	36891.4	41607.3	40869.8	30248.6	28285.3
65°	4321.2	4331.6	4383.5	4915.9	5674.2	13259.7	33808.9	45365.0	45175.5	32996.1	29269.5
66°	3936.9	3939.5	4020.0	4591.3	5092.5	10797.9	31339.3	45650.7	45754.6	33655.7	28981.3
67.5°	3440.9	3430.5	3547.3	4126.5	4638.0	7785.5	26919.3	44492.5	45108.0	34162.1	27945.1
70°	2667.0	2654.0	2796.8	3461.7	4271.9	5193.8	17892.6	38202.8	39194.8	33125.9	24725.0
72.5°	1776.3	1786.7	2030.8	2731.9	4077.1	4573.1	10764.1	29061.8	30464.1	27355.6	19450.7
75°	1036.2	1054.3	1332.2	2030.8	3539.6	4360.2	6092.3	20723.2	21619.1	18889.8	12117.1
77.5°	542.7	550.5	745.3	1340.0	2713.7	4048.5	4058.9	13238.9	13659.6	9180.0	4796.5
80°	288.3	280.5	399.9	807.6	1867.2	3555.1	3292.9	7009.0	7286.9	2726.7	1212.7
82.5°	109.1	119.5	212.9	529.8	1103.7	2552.7	2835.8	3098.1	3002.0	599.9	509.0
85°	20.8	26.0	90.9	314.2	555.7	1067.3	2090.5	1519.2	1407.5	225.9	293.4
87.5°	2.6	5.2	26.0	75.3	80.5	361.0	618.1	420.7	363.6	83.1	122.1
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°	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7	9117.7
2.5°	9122.9	9052.8	8819.0	8587.9	8351.6	8138.6	7993.2	7756.9	7697.2	7611.5	7562.1
5°	9104.7	8941.1	8491.8	8001.0	7544.0	7050.6	6674.0	6310.4	6115.7	6017.0	5980.6
7.5°	9052.8	8793.1	8091.9	7323.2	6590.9	5853.4	5212.0	4723.7	4409.5	4194.0	4048.5
10°	8948.9	8590.5	7627.1	6570.1	5463.9	4490.0	3677.2	3059.1	2581.3	2430.7	2435.9
12.5°	8842.4	8364.6	7107.7	5733.9	4362.8	3134.4	2272.3	1784.1	1555.5	1480.2	1464.6
15°	8743.7	8149.0	6598.7	4923.7	3248.7	2030.8	1464.6	1293.3	1230.9	1217.9	1215.3
17.5°	8691.8	7949.1	6055.9	3996.6	2267.1	1378.9	1173.8	1127.0	1108.9	1095.9	1090.7
20°	8647.6	7775.1	5536.6	3129.3	1550.3	1129.6	1051.7	1007.6	976.4	963.4	955.7
22.5°	8616.5	7595.9	4999.0	2422.9	1186.8	1002.4	932.3	875.2	831.0	815.4	805.0
25°	8569.7	7398.5	4456.3	1771.1	999.8	890.7	810.2	742.7	685.6	657.0	651.8
27.5°	8502.2	7175.2	3861.6	1311.4	893.3	792.1	693.4	610.3	553.1	522.0	524.6
30°	8393.1	6941.5	3266.9	1041.4	807.6	690.8	584.3	503.8	449.3	425.9	423.3
32.5°	8263.3	6658.4	2721.5	893.3	729.7	599.9	488.2	418.1	376.5	358.4	355.8
35°	8141.2	6372.8	2165.8	802.4	649.2	516.8	410.3	350.6	319.4	303.8	306.4
37.5°	8073.7	6118.3	1688.0	729.7	584.3	444.1	353.2	301.2	272.7	259.7	257.1
40°	8117.9	5910.5	1342.6	664.8	511.6	381.7	303.8	259.7	231.1	212.9	212.9
42.5°	8325.6	5819.6	1082.9	602.5	444.1	329.8	264.9	223.3	192.2	174.0	176.6
45°	8959.3	5915.7	906.3	545.3	381.7	285.7	228.5	184.4	155.8	142.8	140.2
47.5°	10011.0	6276.7	784.3	485.6	327.2	244.1	192.2	153.2	124.7	114.3	111.7
50°	11849.6	7022.0	693.4	425.9	277.9	207.8	158.4	122.1	98.7	88.3	88.3
52.5°	14379.0	8647.6	628.4	358.4	233.7	176.6	129.8	98.7	77.9	70.1	67.5
55°	17022.6	10361.6	594.7	301.2	194.8	145.4	103.9	77.9	59.7	51.9	49.3
57.5°	19565.0	11706.8	555.7	244.1	155.8	111.7	80.5	59.7	41.6	36.4	33.8
60°	22003.4	12794.9	472.6	194.8	122.1	80.5	59.7	41.6	28.6	23.4	23.4
62.5°	24184.8	13428.5	371.4	155.8	93.5	57.1	39.0	31.2	20.8	15.6	15.6
65°	24439.3	12605.3	280.5	119.5	67.5	36.4	23.4	23.4	15.6	10.4	10.4
66°	23927.7	11906.7	246.7	109.1	59.7	31.2	20.8	18.2	13.0	7.8	7.8
67.5°	22785.1	10714.8	212.9	93.5	49.3	23.4	15.6	15.6	10.4	5.2	5.2
70°	19687.0	8751.5	168.8	70.1	36.4	18.2	10.4	10.4	7.8	5.2	5.2
72.5°	15004.8	6533.8	137.6	51.9	26.0	13.0	7.8	7.8	7.8	5.2	5.2
75°	9050.2	3518.8	106.5	39.0	23.4	10.4	5.2	7.8	10.4	7.8	5.2
77.5°	3334.4	1197.2	83.1	31.2	18.2	10.4	5.2	5.2	10.4	7.8	7.8
80°	818.0	311.6	59.7	26.0	18.2	10.4	5.2	5.2	10.4	10.4	10.4
82.5°	379.1	132.4	41.6	23.4	18.2	10.4	5.2	5.2	7.8	10.4	10.4
85°	218.1	62.3	33.8	26.0	18.2	10.4	5.2	5.2	7.8	10.4	10.4
87.5°	88.3	31.2	31.2	26.0	20.8	13.0	5.2	5.2	5.2	7.8	7.8
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)