

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: P459549

Luminaire Tested: **GALN-SA9D-735-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459549  
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-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 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: 47964 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

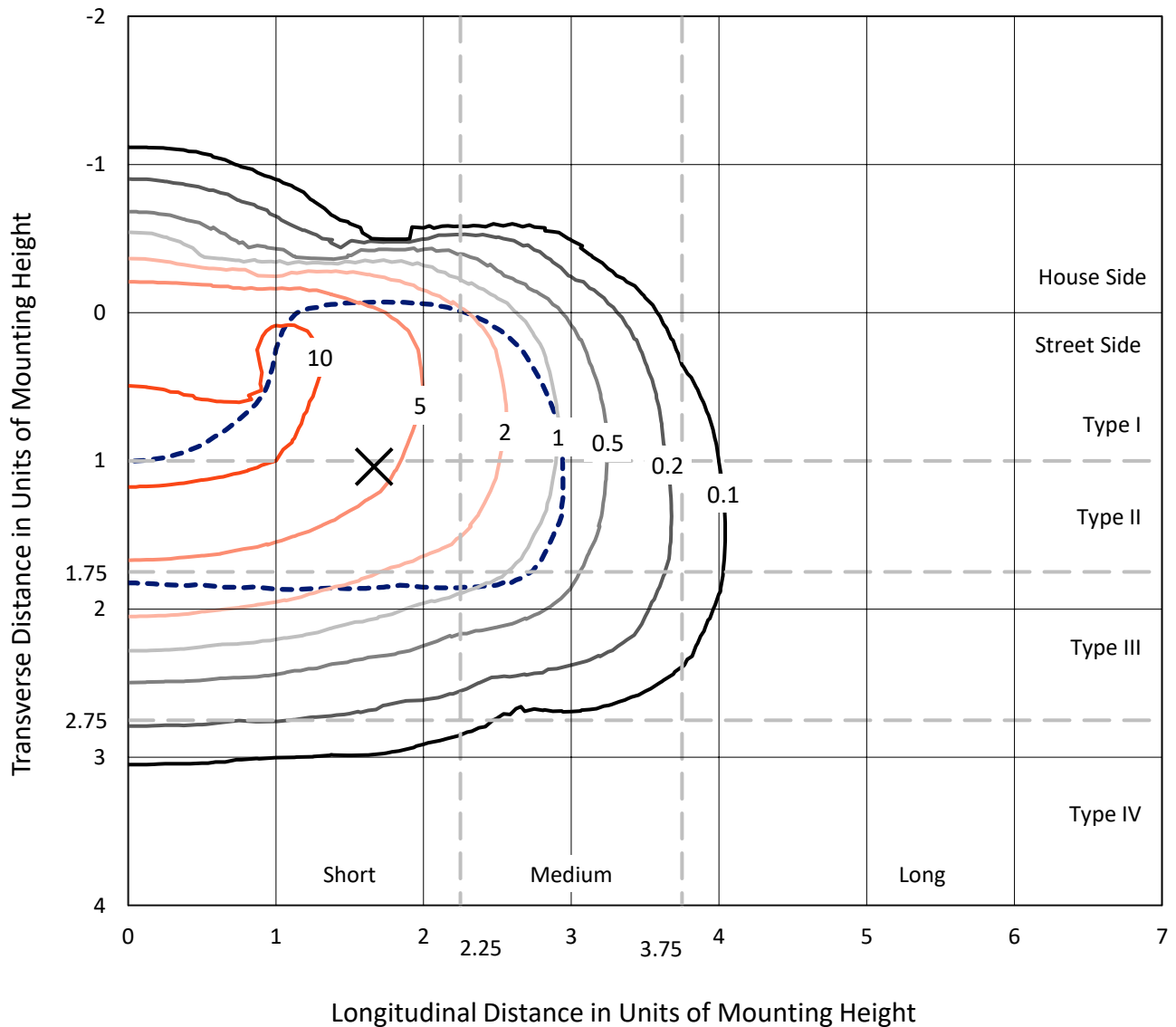
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

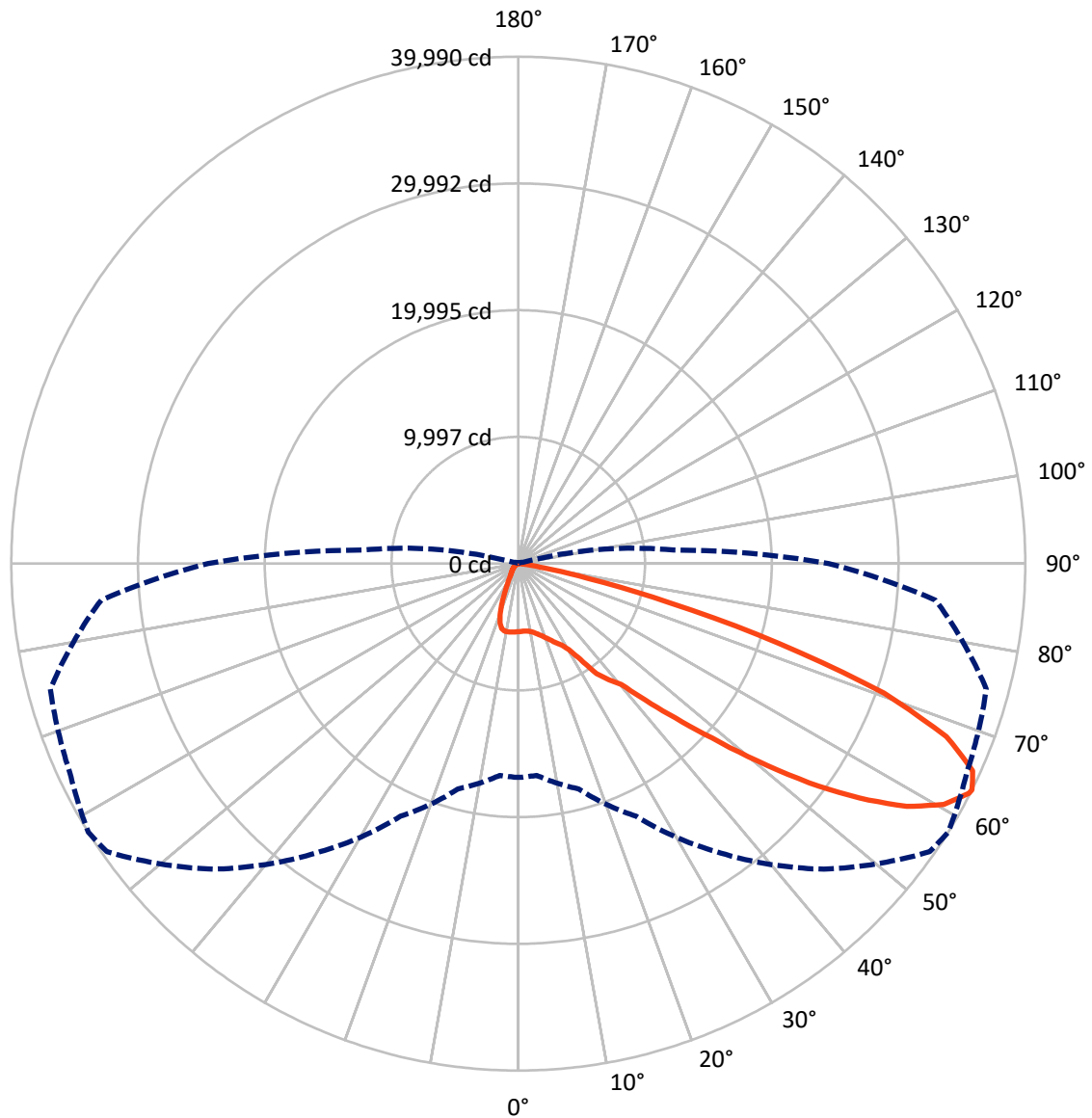
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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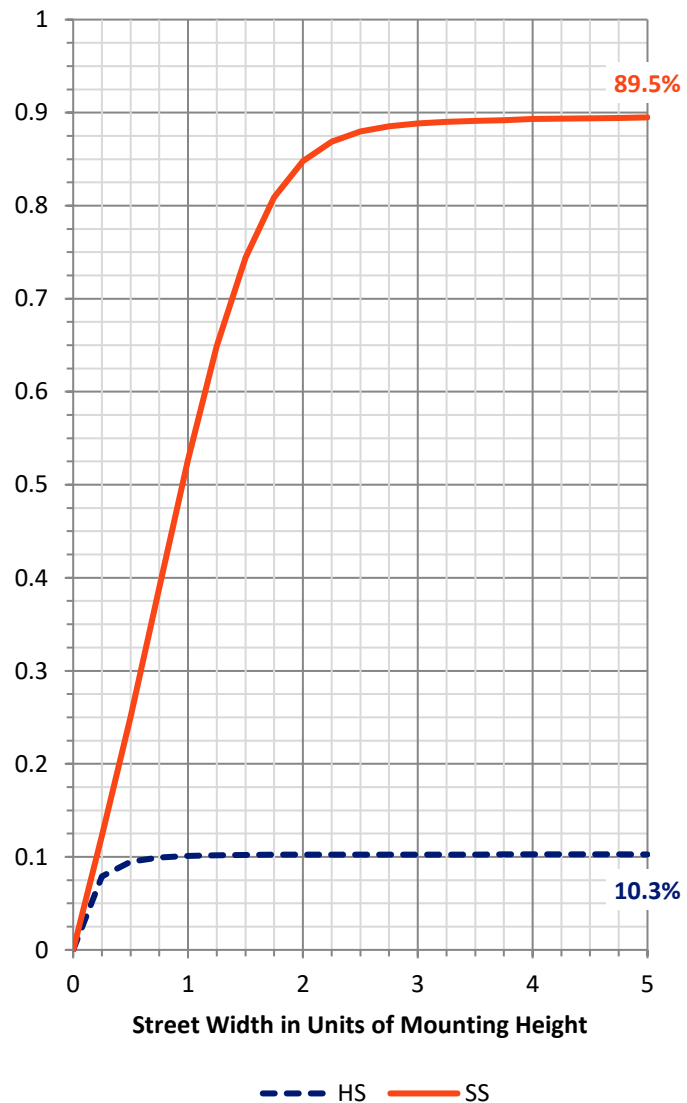
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4966.4	0.0	4966.4
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	42997.6	0.0	42997.6
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	47964.0	0.0	47964.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.7	1.0
10°-20°	1369.1	2.9
20°-30°	2376.2	5.0
30°-40°	4366.5	9.1
40°-50°	8219.8	17.1
50°-60°	14059.4	29.3
60°-70°	13461.9	28.1
70°-80°	3432.8	7.2
80°-90°	175.5	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°	47964.0	100.0
0°-180°	47964.0	100.0



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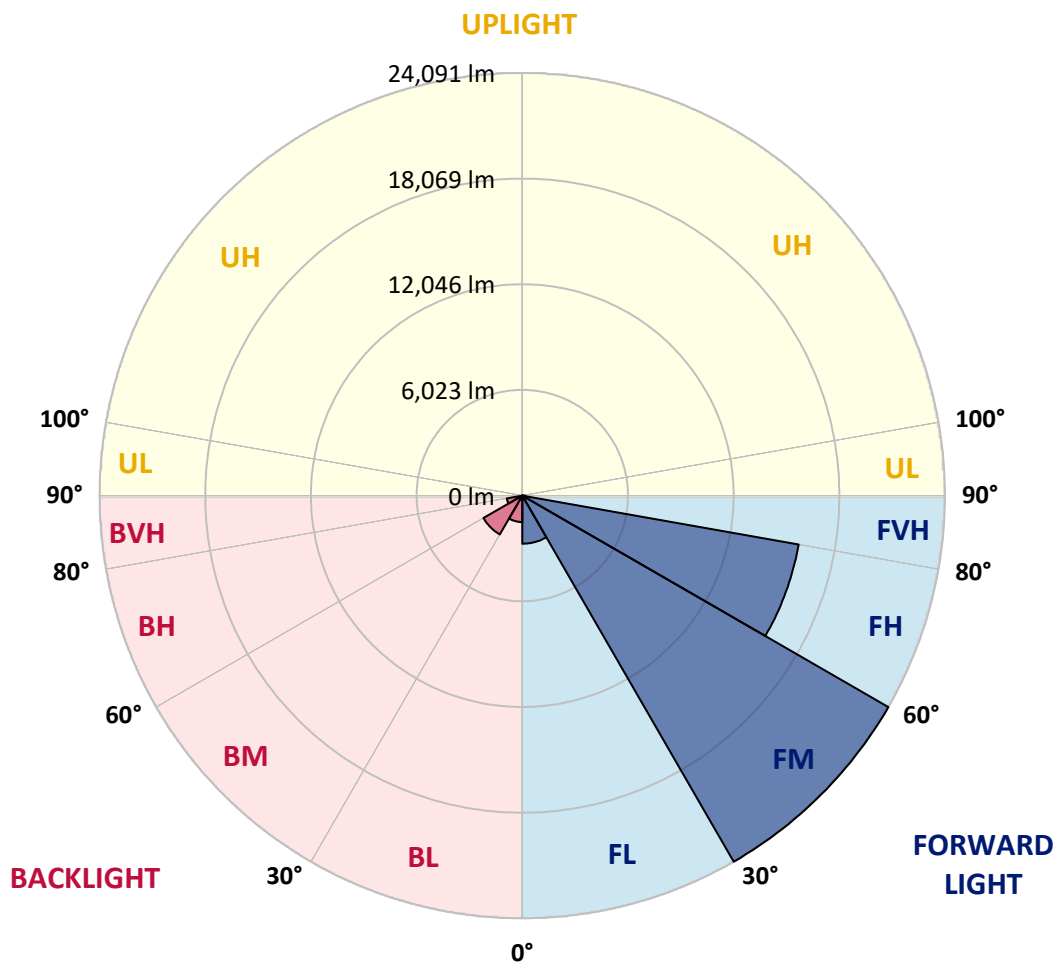
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2741.8	5.7			
FM	(30°-60°)	24091.4	50.2			
FH	(60°-80°)	15995.7	33.3			G5
FVH	(80°-90°)	168.7	0.4			G2/225
BL	(0°-30°)	1506.2	3.1	B3/2500		
BM	(30°-60°)	2554.4	5.3	B3/5000		
BH	(60°-80°)	899.0	1.9	B2/1000		G2/1000
BVH	(80°-90°)	6.8	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°	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8
2.5°	5236.1	5254.2	5272.3	5279.5	5304.8	5330.0	5348.1	5344.5	5373.4	5387.8	5387.8
5°	5026.7	5026.7	5073.6	5117.0	5189.2	5261.4	5330.0	5344.5	5398.6	5449.2	5467.3
7.5°	4849.8	4860.6	4896.7	4976.1	5073.6	5200.0	5337.3	5369.8	5463.6	5575.6	5622.5
10°	4766.7	4773.9	4820.9	4903.9	5026.7	5200.0	5391.4	5452.8	5597.3	5774.2	5839.2
12.5°	4748.6	4759.5	4806.4	4900.3	5041.1	5250.6	5510.6	5575.6	5785.0	6012.5	6110.0
15°	4781.1	4788.4	4835.3	4936.4	5091.7	5340.9	5669.5	5759.8	6008.9	6272.5	6398.9
17.5°	4896.7	4889.5	4922.0	5005.0	5178.4	5452.8	5860.9	5969.2	6261.7	6622.8	6705.9
20°	5387.8	5340.9	5312.0	5239.8	5308.4	5611.7	6092.0	6250.9	6612.0	6980.3	7038.1
22.5°	6445.9	6341.2	6135.3	5853.6	5637.0	5828.4	6370.0	6554.2	7020.0	7381.2	7381.2
25°	7792.8	7659.2	7453.4	6839.5	6308.7	6185.9	6684.2	6915.3	7464.2	7828.9	7709.8
27.5°	9479.2	9374.5	8973.7	8258.7	7446.2	6810.6	7048.9	7262.0	7857.8	8298.4	8049.2
30°	10851.5	10800.9	10472.3	9833.1	8937.6	8009.5	7727.8	7868.7	8381.4	8890.6	8634.2
32.5°	12010.6	12010.6	11674.8	11079.0	10241.2	9417.8	8879.8	8980.9	9472.0	10060.6	9583.9
35°	13285.4	13242.0	12971.2	12404.2	11465.3	10739.5	10519.2	10656.5	11100.6	11537.6	10364.0
37.5°	14625.1	14610.6	14329.0	13780.1	13014.5	12100.9	11584.5	11620.6	11848.1	12115.4	11277.6
40°	16080.4	16102.0	15733.7	15394.3	14672.0	13736.8	12747.3	12519.8	12732.9	13487.6	12964.0
42.5°	17799.3	17748.7	17589.8	17127.6	16546.2	15986.5	14798.4	14715.4	14903.1	15712.0	15145.1
45°	19796.2	19868.5	19594.0	19337.6	18947.6	18481.8	17488.7	17344.3	17550.1	18806.8	18001.5
47.5°	21796.8	21728.2	21905.1	21858.2	22067.6	21721.0	20843.5	20547.3	21042.1	22233.7	21049.3
50°	23320.7	23396.5	23764.9	24302.9	25202.1	25397.1	24555.7	24454.6	24674.9	25440.4	23775.7
52.5°	24310.1	24562.9	25140.7	26523.8	28145.2	29405.5	28766.3	28712.1	28621.8	28827.7	26382.9
55°	24956.5	25212.9	25967.7	28004.3	30795.7	32843.3	32875.8	32644.6	32048.8	31900.8	28820.5
57.5°	24559.3	24609.9	25686.0	28408.8	32265.5	35295.2	36356.9	36125.8	35024.4	34464.7	30972.7
60°	22074.9	22179.6	23678.2	26877.7	31626.3	36096.9	38664.4	38559.7	37353.6	36721.6	32648.3
62.5°	17672.9	17976.2	19518.2	23086.0	28654.3	34746.3	39599.7	39895.8	38956.9	38086.6	33175.5
63°	16864.0	16766.5	18395.1	21981.0	27867.1	34078.3	39614.1	39989.7	39029.1	38216.6	33031.0
65°	12483.7	12776.2	13834.3	17333.4	23190.7	30969.1	38722.2	39386.6	38761.9	37642.5	31431.3
67.5°	7009.2	6994.8	8164.8	11342.6	16232.0	24292.1	35013.5	36418.3	36288.3	33778.5	26054.3
70°	3430.6	3484.7	3965.0	5878.9	9414.2	16759.3	29094.9	30611.6	30658.5	26531.0	18015.9
72.5°	1552.8	1578.1	1921.1	2863.6	4838.9	8923.1	20049.0	21497.1	21229.9	16907.3	9948.7
75°	819.7	873.9	1058.1	1440.8	2332.8	3679.7	10905.6	12306.7	11747.0	7724.2	3661.7
77.5°	606.7	624.7	718.6	917.2	1249.5	1433.6	4705.3	5597.3	5243.4	2795.0	1213.3
80°	444.2	458.6	534.4	650.0	787.2	729.4	1773.1	2033.1	1823.6	949.7	371.9
82.5°	270.8	274.4	390.0	483.9	494.7	408.1	585.0	628.3	657.2	534.4	202.2
85°	97.5	122.8	263.6	350.3	292.5	205.8	245.6	270.8	296.1	339.4	119.2
87.5°	10.8	14.4	126.4	169.7	83.1	75.8	90.3	101.1	108.3	126.4	57.8
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°	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8	5369.8
2.5°	5402.3	5416.7	5405.9	5387.8	5384.2	5373.4	5351.7	5351.7	5351.7	5358.9	5351.7
5°	5481.7	5492.5	5467.3	5431.1	5391.4	5340.9	5286.7	5254.2	5250.6	5243.4	5225.3
7.5°	5633.4	5647.8	5590.0	5503.4	5395.0	5272.3	5156.7	5048.4	4997.8	4958.1	4958.1
10°	5853.6	5868.1	5752.5	5597.3	5380.6	5131.4	4857.0	4607.8	4412.8	4322.5	4300.9
12.5°	6117.3	6124.5	5933.1	5662.3	5304.8	4824.5	4239.5	3694.2	3315.0	3141.7	3123.6
15°	6406.2	6355.6	6102.8	5687.5	5088.1	4192.5	3181.4	2513.3	2119.7	2004.2	2047.5
17.5°	6698.7	6604.8	6232.8	5647.8	4600.6	3181.4	2137.8	1715.3	1592.5	1560.0	1560.0
20°	6973.1	6843.1	6326.7	5474.5	3755.6	2192.0	1585.3	1484.2	1462.5	1440.8	1444.5
22.5°	7247.5	7048.9	6409.8	5088.1	2798.6	1567.2	1419.2	1386.7	1357.8	1328.9	1325.3
25°	7514.8	7240.3	6442.3	4373.1	1906.7	1347.0	1296.4	1253.1	1195.3	1162.8	1155.6
27.5°	7792.8	7471.4	6420.6	3470.3	1390.3	1206.1	1155.6	1094.2	1025.6	967.8	967.8
30°	8327.3	7912.0	6344.8	2495.3	1170.0	1061.7	996.7	899.2	823.3	765.6	761.9
32.5°	9056.7	8486.2	6084.8	1755.0	1040.0	935.3	837.8	729.4	650.0	606.7	606.7
35°	9706.7	9063.9	5597.3	1292.8	935.3	812.5	693.3	588.6	527.2	498.3	487.5
37.5°	10696.2	9908.9	4925.6	1050.8	834.2	704.2	581.4	483.9	433.3	411.7	411.7
40°	12180.4	10941.7	4102.2	920.8	736.7	599.4	483.9	408.1	368.3	343.1	343.1
42.5°	14022.0	12205.6	3268.1	826.9	646.4	516.4	404.4	346.7	310.6	292.5	288.9
45°	16340.4	13538.1	2517.0	740.3	574.2	440.6	343.1	292.5	256.4	245.6	249.2
47.5°	18759.8	14711.8	1950.0	664.4	498.3	371.9	292.5	252.8	227.5	213.1	213.1
50°	20825.4	15520.7	1480.6	577.8	440.6	314.2	256.4	227.5	205.8	198.6	195.0
52.5°	22551.5	15755.4	1133.9	501.9	386.4	270.8	227.5	205.8	187.8	176.9	176.9
55°	24021.3	15549.5	888.3	422.5	325.0	234.7	202.2	184.2	162.5	151.7	148.1
57.5°	24880.7	14888.7	678.9	350.3	263.6	195.0	176.9	155.3	130.0	111.9	111.9
60°	25314.0	13928.1	520.0	288.9	202.2	155.3	144.4	115.6	90.3	75.8	72.2
62.5°	24794.0	12653.4	393.6	227.5	151.7	115.6	97.5	83.1	57.8	43.3	43.3
63°	24472.7	12285.1	379.2	216.7	140.8	108.3	90.3	75.8	50.6	39.7	36.1
65°	22309.6	10678.1	310.6	173.3	111.9	75.8	61.4	54.2	36.1	18.1	14.4
67.5°	17716.2	8168.4	245.6	130.0	79.4	54.2	36.1	32.5	10.8	0.0	0.0
70°	11978.1	5275.9	191.4	93.9	54.2	32.5	18.1	14.4	3.6	0.0	0.0
72.5°	6247.3	2704.7	148.1	68.6	32.5	21.7	10.8	3.6	0.0	0.0	0.0
75°	2210.0	920.8	108.3	43.3	21.7	10.8	3.6	0.0	0.0	0.0	0.0
77.5°	668.1	343.1	68.6	32.5	14.4	7.2	0.0	0.0	0.0	0.0	0.0
80°	234.7	126.4	39.7	21.7	10.8	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	115.6	61.4	25.3	18.1	10.8	3.6	0.0	0.0	0.0	0.0	0.0
85°	65.0	39.7	21.7	18.1	10.8	7.2	0.0	0.0	0.0	0.0	0.0
87.5°	46.9	28.9	21.7	18.1	14.4	7.2	3.6	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)