

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: P459335

Luminaire Tested: **GALN-SA8A-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459335  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28297 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

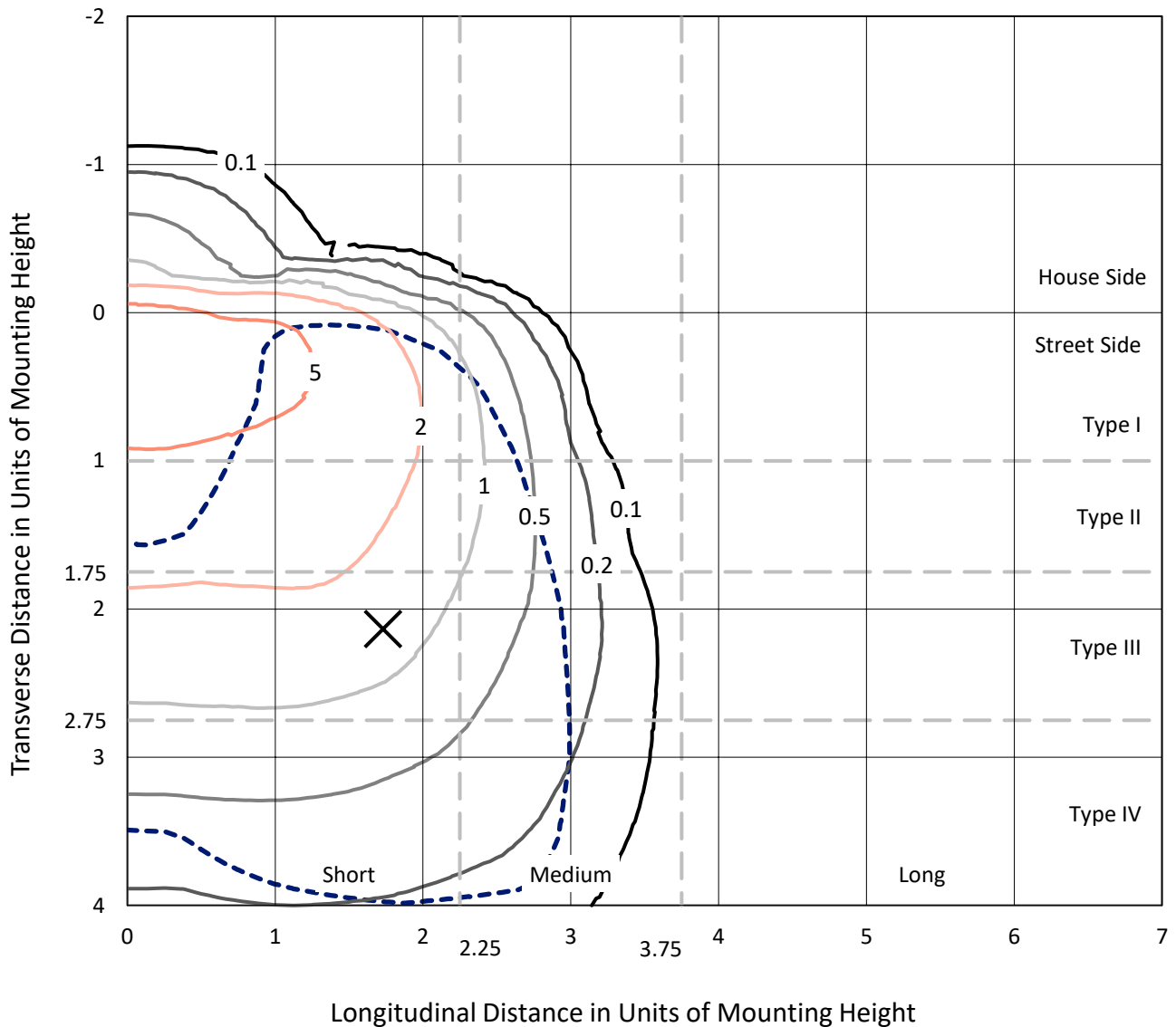
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

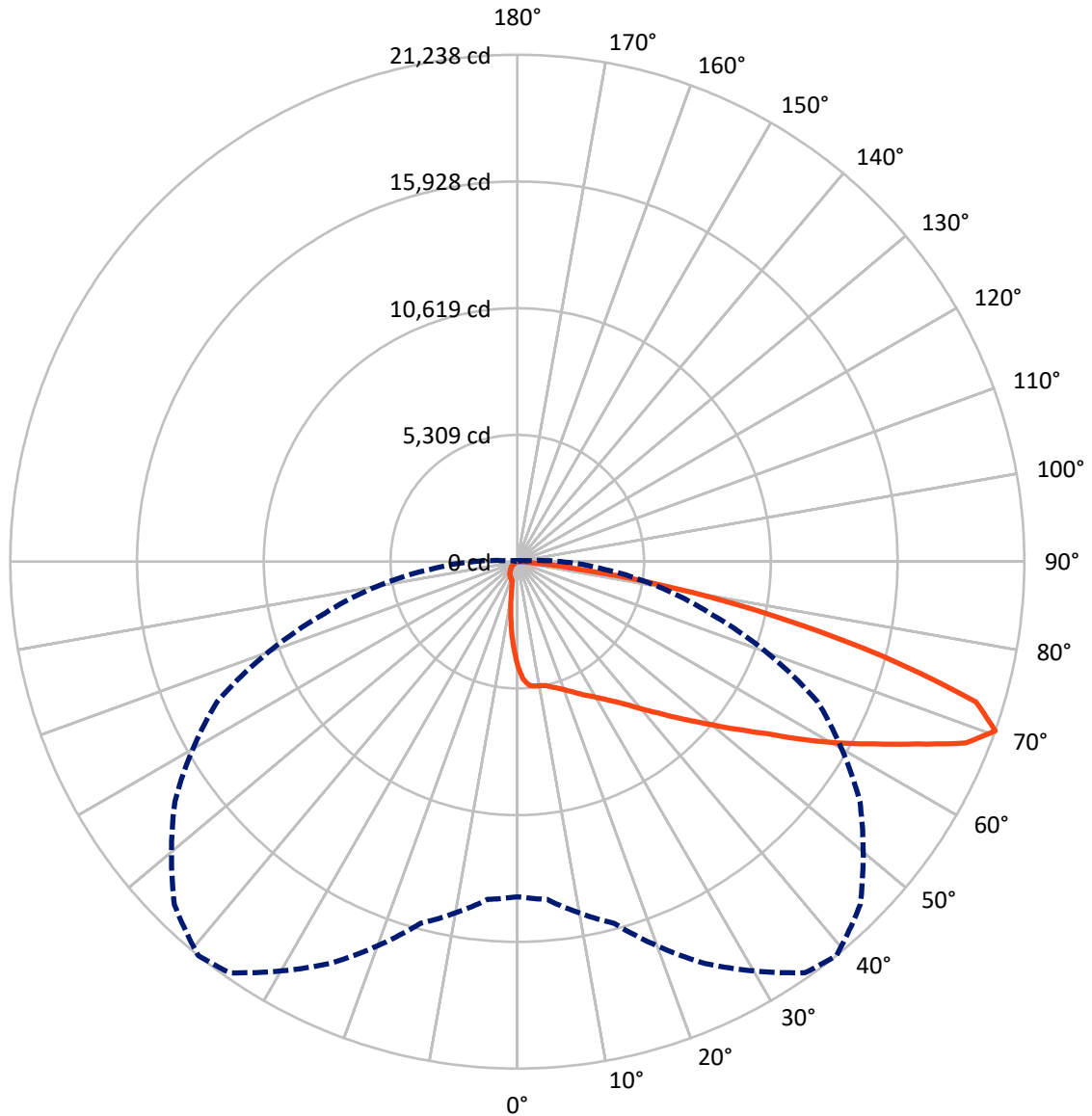
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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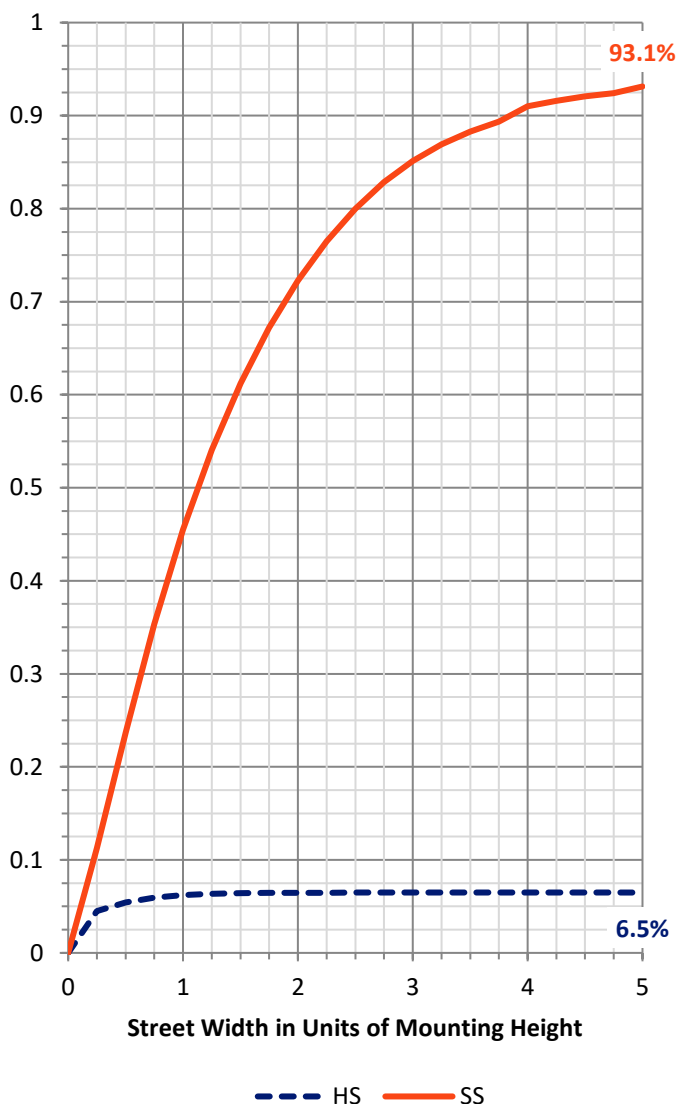
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1845.1	0.0	1845.1
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	26451.9	0.0	26451.9
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	28297.0	0.0	28297.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.6	1.3
10°-20°	978.7	3.5
20°-30°	1639.5	5.8
30°-40°	2542.7	9.0
40°-50°	4029.4	14.2
50°-60°	5906.5	20.9
60°-70°	7570.8	26.8
70°-80°	4757.2	16.8
80°-90°	495.6	1.8
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°	28297.0	100.0
0°-180°	28297.0	100.0

**Coefficient of Utilization**



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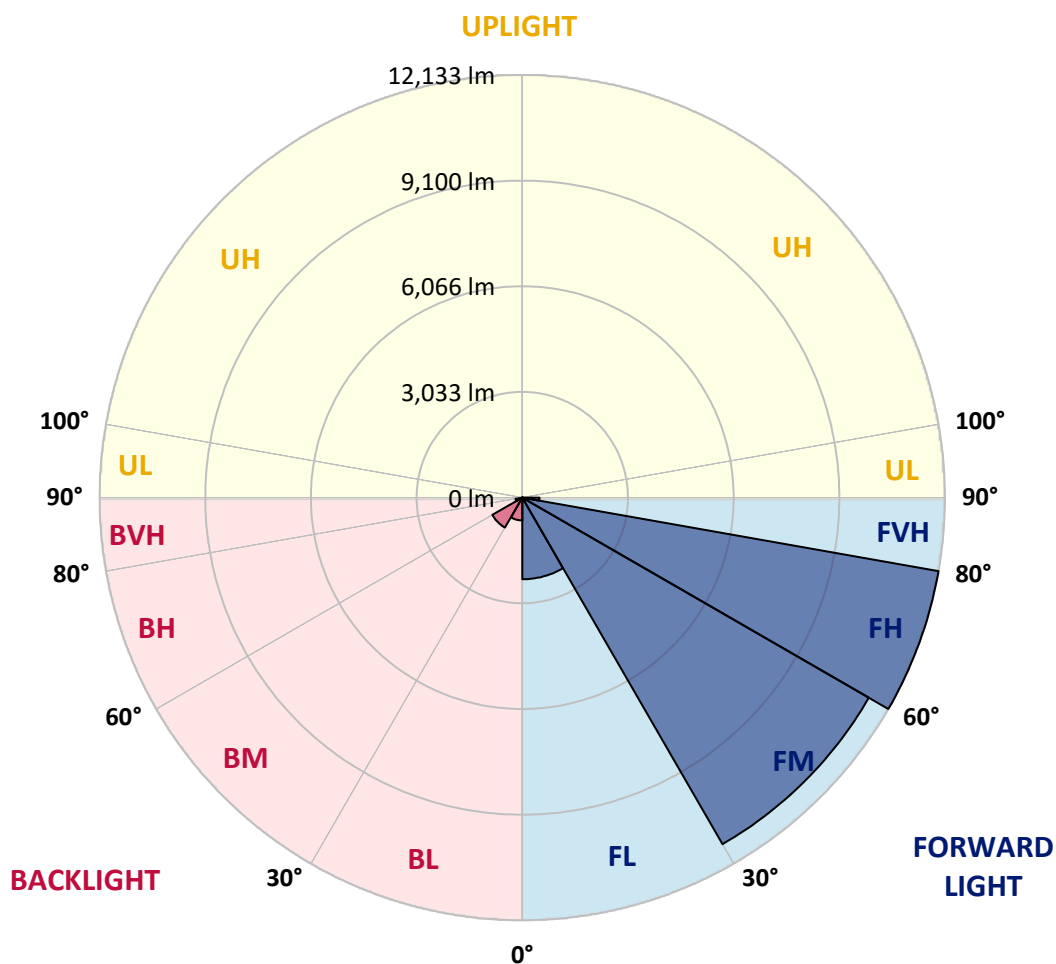
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2341.4	8.3			
FM (30°-60°)	11485.7	40.6			
FH (60°-80°)	12132.8	42.9			G5
FVH (80°-90°)	491.9	1.7			G3/500
BL (0°-30°)	653.3	2.3	B2/1000		
BM (30°-60°)	993.0	3.5	B1/1000		
BH (60°-80°)	195.1	0.7	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3
2.5°	5101.7	5084.6	5061.8	5035.2	4959.1	4945.8	4900.2	4803.2	4687.2	4592.1	4460.9
5°	5343.2	5352.7	5335.6	5288.1	5233.0	5200.6	5143.6	4993.4	4843.1	4651.1	4436.2
7.5°	5398.4	5417.4	5396.5	5350.8	5297.6	5263.4	5217.7	5088.4	4913.5	4694.8	4400.1
10°	5392.7	5415.5	5402.2	5360.4	5316.6	5284.3	5234.9	5132.2	4991.5	4761.4	4411.5
12.5°	5383.2	5413.6	5411.7	5390.8	5354.6	5329.9	5299.5	5208.2	5077.0	4858.4	4474.2
15°	5356.5	5394.6	5428.8	5445.9	5447.8	5447.8	5409.8	5312.8	5187.3	4985.8	4556.0
17.5°	5368.0	5411.7	5497.3	5546.7	5580.9	5577.1	5537.2	5432.6	5293.8	5117.0	4641.6
20°	5438.3	5497.3	5617.1	5715.9	5750.2	5738.8	5685.5	5563.8	5406.0	5229.1	4725.2
22.5°	5611.4	5664.6	5814.8	5930.8	5955.5	5925.1	5849.0	5683.6	5541.0	5350.8	4826.0
25°	5870.0	5932.7	6071.5	6159.0	6159.0	6141.9	6035.4	5841.4	5693.1	5520.1	4957.2
27.5°	6183.7	6236.9	6373.9	6451.8	6406.2	6356.7	6250.3	6016.4	5873.8	5733.0	5115.1
30°	6501.3	6535.5	6680.0	6714.2	6666.7	6603.9	6489.8	6256.0	6130.5	6022.1	5343.2
32.5°	6801.7	6875.9	6995.6	6988.0	6923.4	6893.0	6788.4	6539.3	6468.9	6457.5	5662.7
35°	7102.1	7159.2	7265.7	7292.3	7235.2	7229.5	7153.5	6969.0	6970.9	7045.1	6160.9
37.5°	7360.7	7412.1	7537.6	7596.5	7607.9	7636.5	7606.0	7484.3	7657.4	7860.8	6820.7
40°	7577.5	7649.8	7809.5	7912.2	8030.1	8134.7	8140.4	8167.0	8515.0	8864.8	7682.1
42.5°	7746.7	7847.5	8079.5	8269.7	8539.7	8672.8	8779.3	8925.7	9511.3	10034.3	8697.5
45°	7967.3	8083.3	8372.3	8670.9	9093.0	9311.7	9460.0	9851.7	10682.7	11395.7	9739.5
47.5°	8332.4	8393.3	8688.0	9123.4	9678.7	9990.5	10279.6	10872.8	11939.6	12578.5	10606.6
50°	8802.1	8842.0	9064.5	9669.2	10387.9	10798.7	11325.4	12023.2	13244.0	13559.7	11097.2
52.5°	9321.2	9334.5	9501.8	10270.0	11182.8	11700.0	12289.4	13150.8	14306.9	14259.4	11422.4
55°	9924.0	9905.0	10047.6	10922.3	12124.0	12715.4	13401.8	14305.0	15229.2	14755.7	11608.7
57.5°	10614.2	10562.9	10701.7	11787.5	13329.6	14036.9	14734.8	15301.4	15944.1	15172.1	11698.1
60°	11336.8	11234.1	11399.5	12759.1	14750.0	15421.2	16001.2	16153.3	16697.1	15503.0	11544.1
62.5°	11913.0	11914.9	12222.9	13793.5	16210.4	16797.9	17106.0	17242.9	17345.6	15430.7	10734.0
65°	12812.4	12842.8	13335.3	15229.2	17900.8	18410.4	18621.5	18176.5	17374.1	14533.2	9517.0
67.5°	13740.3	13837.3	14738.6	17206.7	19853.6	20264.4	19992.5	18357.2	16598.3	12485.3	7216.2
70°	14042.6	14202.4	15687.4	18568.2	21025.0	21237.9	20317.6	17514.8	13875.3	8347.6	3631.9
72.5°	12867.5	13126.1	15141.7	18071.9	20277.7	20093.2	18178.4	14689.2	8821.1	3169.8	1108.6
75°	9074.0	9188.1	12584.2	14991.5	16309.2	15786.3	13827.8	9469.5	3628.1	889.9	380.3
77.5°	4685.3	4630.2	7484.3	9946.8	11631.5	11089.6	9055.0	4902.1	1374.8	370.8	235.8
80°	2422.5	2462.5	3238.3	5212.0	7100.2	6533.6	4827.9	2272.3	732.1	205.4	180.6
82.5°	1357.7	1274.0	1861.6	2276.1	3320.0	2603.2	1852.1	1608.7	319.5	123.6	171.1
85°	247.2	258.6	1021.1	1230.3	1152.3	732.1	597.1	1074.4	93.2	68.5	119.8
87.5°	3.8	3.8	197.8	353.7	224.4	102.7	188.2	154.0	19.0	26.6	20.9
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°	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3
2.5°	4394.4	4322.1	4187.1	4054.0	3884.8	3746.0	3652.8	3555.8	3456.9	3464.5	3487.4
5°	4318.3	4192.8	3926.6	3645.2	3375.2	3131.8	2892.2	2677.3	2589.9	2510.0	2513.8
7.5°	4242.3	4065.4	3675.6	3234.5	2825.6	2411.1	2110.7	1863.5	1732.3	1633.4	1604.9
10°	4208.0	3974.2	3445.5	2839.0	2259.0	1806.4	1420.4	1218.9	1062.9	1013.5	1026.8
12.5°	4223.3	3928.5	3238.3	2481.5	1791.2	1258.8	988.8	886.1	851.9	846.2	842.4
15°	4251.8	3896.2	3034.8	2086.0	1315.8	935.5	831.0	811.9	808.1	804.3	806.2
17.5°	4289.8	3867.7	2818.0	1715.2	1009.7	817.6	787.2	777.7	775.8	775.8	775.8
20°	4327.8	3835.3	2576.5	1384.3	842.4	772.0	753.0	747.3	745.4	745.4	743.5
22.5°	4371.6	3806.8	2331.2	1087.7	775.8	739.7	722.6	718.8	716.9	715.0	715.0
25°	4434.3	3770.7	2070.7	889.9	734.0	709.3	692.1	688.3	686.4	678.8	680.7
27.5°	4518.0	3744.1	1802.6	768.2	696.0	671.2	659.8	654.1	650.3	644.6	646.5
30°	4632.1	3721.3	1517.4	701.7	652.2	631.3	619.9	616.1	612.3	606.6	606.6
32.5°	4829.8	3730.8	1217.0	648.4	612.3	587.6	576.2	572.4	568.6	562.8	562.8
35°	5126.5	3785.9	973.6	602.8	564.7	540.0	528.6	528.6	522.9	515.3	513.4
37.5°	5611.4	3926.6	781.5	559.0	519.1	496.3	483.0	479.2	473.5	462.1	460.2
40°	6183.7	4145.3	657.9	515.3	477.3	454.5	443.1	431.6	416.4	405.0	403.1
42.5°	6902.5	4369.7	570.5	471.6	437.3	416.4	403.1	384.1	361.3	346.1	344.2
45°	7651.7	4575.0	511.5	431.6	399.3	382.2	367.0	336.6	308.0	289.0	287.1
47.5°	8210.7	4613.1	464.0	393.6	367.0	349.9	329.0	290.9	252.9	235.8	230.1
50°	8475.0	4428.6	414.5	355.6	334.7	315.7	289.0	245.3	203.5	182.5	178.7
52.5°	8568.2	4109.2	374.6	321.4	302.3	279.5	247.2	197.8	159.7	138.8	136.9
55°	8530.2	3706.0	338.5	289.0	264.3	237.7	205.4	157.8	117.9	100.8	97.0
57.5°	8330.5	3192.6	302.3	256.7	226.3	199.7	163.5	117.9	79.9	64.7	62.7
60°	7792.4	2492.9	266.2	220.6	192.1	163.5	129.3	83.7	49.4	36.1	36.1
62.5°	6883.5	1850.2	232.0	184.4	161.6	131.2	91.3	53.2	26.6	19.0	17.1
65°	5752.1	1365.3	194.0	155.9	135.0	102.7	64.7	32.3	13.3	5.7	3.8
67.5°	4014.1	842.4	161.6	127.4	110.3	74.2	39.9	13.3	5.7	0.0	0.0
70°	1823.5	401.2	123.6	97.0	83.7	53.2	20.9	7.6	3.8	0.0	0.0
72.5°	566.6	211.1	87.5	70.4	57.0	34.2	11.4	5.7	3.8	0.0	0.0
75°	262.4	135.0	55.1	38.0	32.3	17.1	7.6	3.8	1.9	0.0	0.0
77.5°	195.9	104.6	32.3	20.9	17.1	11.4	5.7	3.8	1.9	0.0	0.0
80°	171.1	53.2	19.0	13.3	9.5	7.6	3.8	1.9	0.0	0.0	0.0
82.5°	154.0	26.6	11.4	7.6	5.7	3.8	1.9	1.9	0.0	0.0	0.0
85°	83.7	15.2	7.6	5.7	3.8	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	15.2	7.6	5.7	3.8	3.8	1.9	1.9	1.9	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)