

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: P647112

Luminaire Tested: **GALN-SA8C-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647112  
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-SA8C-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA 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: 36564.5 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

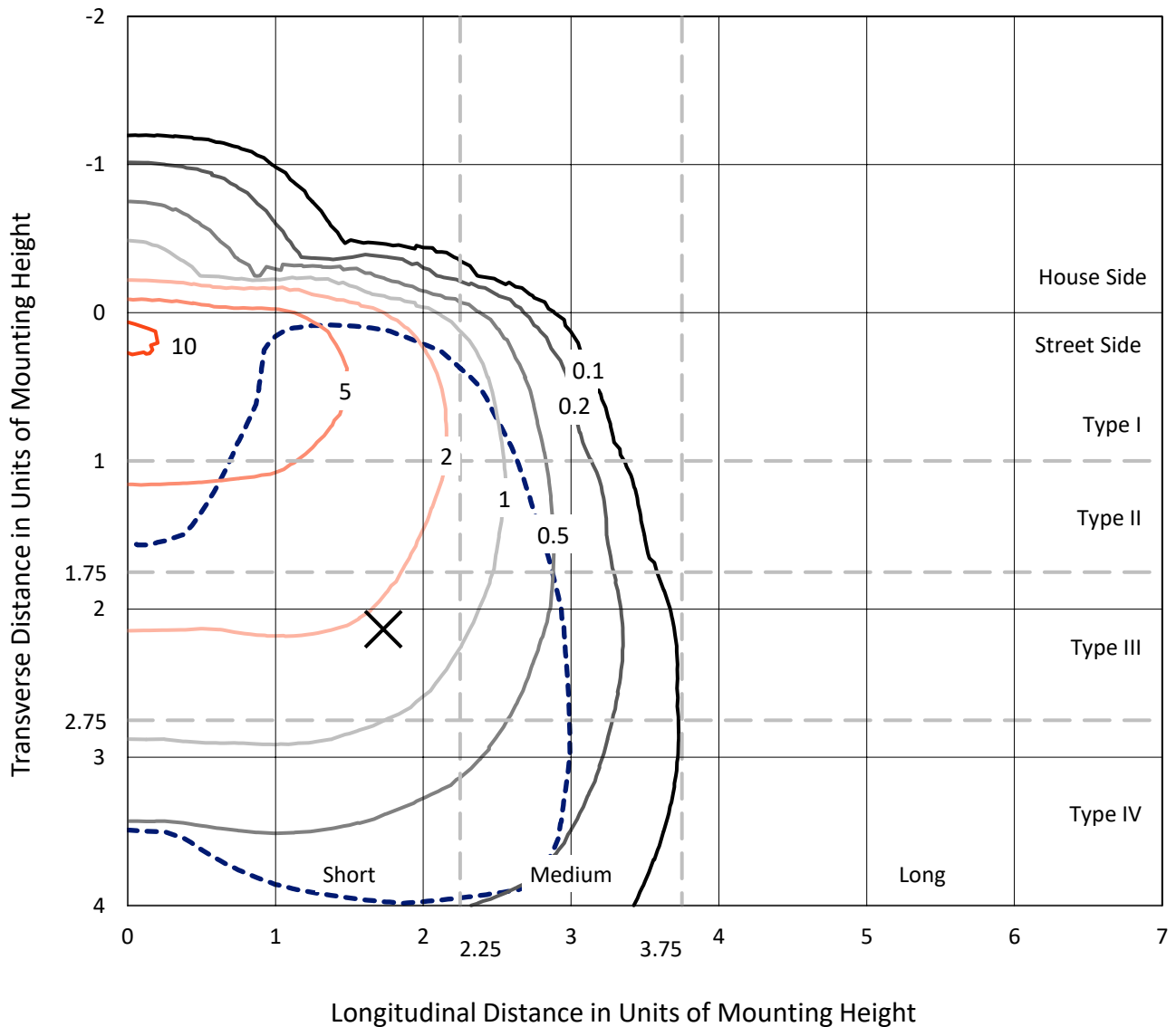
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

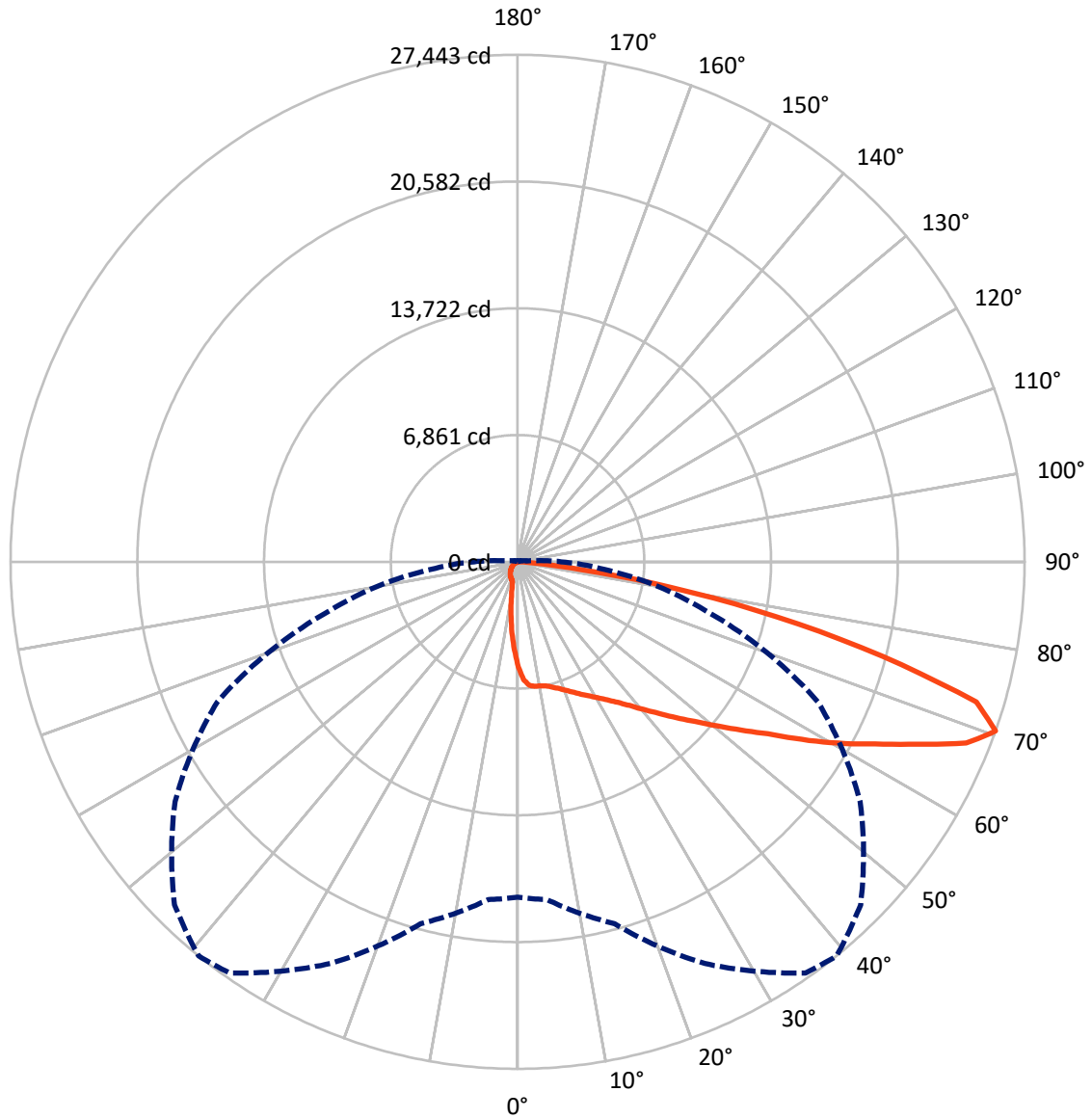
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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 CATALOG NUMBER: GALN-SA8C-835-U-SL4-HSS

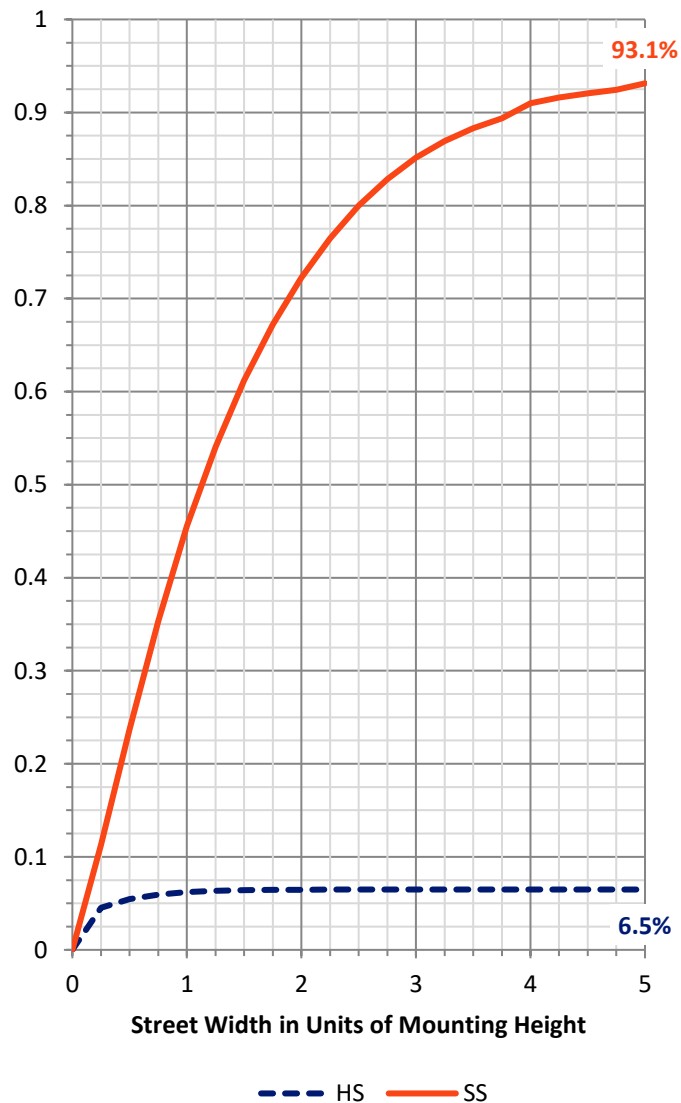
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2384.2	0.0	2384.2
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	34180.4	0.0	34180.4
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	36564.5	0.0	36564.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.6	1.3
10°-20°	1264.6	3.5
20°-30°	2118.5	5.8
30°-40°	3285.6	9.0
40°-50°	5206.7	14.2
50°-60°	7632.3	20.9
60°-70°	9782.7	26.8
70°-80°	6147.1	16.8
80°-90°	640.4	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°	36564.5	100.0
0°-180°	36564.5	100.0

**Coefficient of Utilization**



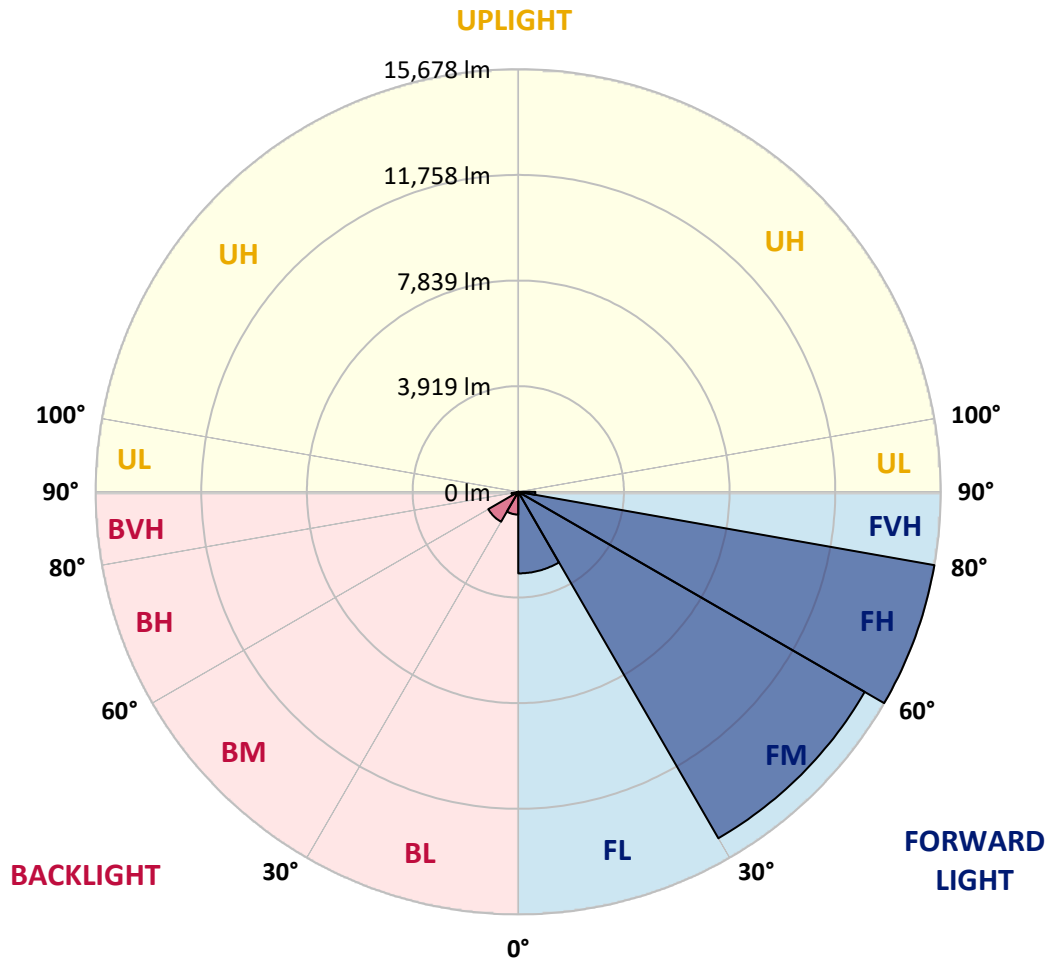
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 CATALOG NUMBER: GALN-SA8C-835-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3025.5	8.3			
FM (30°-60°)	14841.5	40.6			
FH (60°-80°)	15677.7	42.9			G5
FVH (80°-90°)	635.7	1.7			G4/750
BL (0°-30°)	844.2	2.3	B2/1000		
BM (30°-60°)	1283.1	3.5	B2/2500		
BH (60°-80°)	252.1	0.7	B1/500		G1/500
BVH (80°-90°)	4.7	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°	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3
2.5°	6592.3	6570.2	6540.7	6506.3	6408.1	6390.8	6331.9	6206.5	6056.7	5933.8	5764.3
5°	6904.3	6916.6	6894.5	6833.1	6761.8	6720.1	6646.4	6452.2	6258.1	6010.0	5732.3
7.5°	6975.6	7000.2	6973.2	6914.2	6845.4	6801.1	6742.2	6575.1	6349.1	6066.5	5685.7
10°	6968.2	6997.7	6980.5	6926.5	6870.0	6828.2	6764.3	6631.6	6449.8	6152.5	5700.4
12.5°	6955.9	6995.3	6992.8	6965.8	6919.1	6887.2	6847.9	6729.9	6560.4	6277.8	5781.5
15°	6921.6	6970.7	7015.0	7037.1	7039.5	7039.5	6990.4	6865.0	6702.9	6442.4	5887.1
17.5°	6936.3	6992.8	7103.4	7167.3	7211.5	7206.6	7155.0	7019.8	6840.5	6612.0	5997.7
20°	7027.2	7103.4	7258.2	7386.0	7430.2	7415.5	7346.7	7189.4	6985.5	6757.0	6105.8
22.5°	7250.8	7319.6	7513.7	7663.6	7695.6	7656.3	7558.0	7344.2	7159.9	6914.2	6236.0
25°	7585.0	7666.0	7845.4	7958.5	7958.5	7936.3	7798.8	7548.1	7356.4	7132.9	6405.6
27.5°	7990.4	8059.2	8236.1	8336.8	8277.9	8214.0	8076.4	7774.2	7589.9	7408.0	6609.5
30°	8400.7	8445.0	8631.7	8676.0	8614.5	8533.4	8386.0	8083.8	7921.6	7781.5	6904.3
32.5°	8788.9	8884.8	9039.6	9029.7	8946.2	8906.9	8771.7	8449.9	8359.0	8344.2	7317.1
35°	9177.2	9250.9	9388.5	9422.9	9349.2	9341.8	9243.5	9005.2	9007.6	9103.5	7960.9
37.5°	9511.3	9577.7	9739.8	9816.0	9830.7	9867.6	9828.3	9671.1	9894.6	10157.5	8813.5
40°	9791.4	9884.8	10091.2	10223.9	10376.2	10511.4	10518.7	10553.1	11002.8	11454.9	9926.6
42.5°	10010.1	10140.3	10440.1	10685.8	11034.7	11206.7	11344.3	11533.5	12290.3	12965.9	11238.6
45°	10295.1	10445.0	10818.5	11204.3	11749.7	12032.3	12224.0	12730.1	13803.8	14725.3	12585.2
47.5°	10766.9	10845.5	11226.3	11789.0	12506.5	12909.5	13283.0	14049.5	15427.9	16253.5	13705.6
50°	11373.8	11425.4	11712.9	12494.2	13423.0	13953.7	14634.3	15536.1	17113.5	17521.3	14339.5
52.5°	12044.6	12061.8	12278.0	13270.7	14450.0	15118.4	15880.0	16993.1	18487.0	18425.6	14759.6
55°	12823.4	12798.9	12983.2	14113.4	15666.3	16430.5	17317.5	18484.5	19678.7	19066.9	15000.4
57.5°	13715.3	13649.0	13828.4	15231.4	17224.0	18138.1	19039.8	19772.1	20602.5	19605.0	15115.9
60°	14649.1	14516.4	14730.1	16486.9	19059.5	19926.9	20676.3	20872.8	21575.6	20032.5	14916.9
62.5°	15393.5	15396.1	15794.0	17823.6	20946.5	21705.8	22103.9	22280.7	22413.4	19939.2	13870.1
65°	16555.8	16595.1	17231.5	19678.7	23130.8	23789.3	24062.1	23487.2	22450.3	18779.4	12297.6
67.5°	17754.8	17880.1	19044.8	22234.1	25654.3	26185.0	25833.7	23720.6	21447.8	16133.2	9324.6
70°	18145.5	18351.9	20270.9	23993.3	27167.8	27443.1	26253.8	22632.1	17929.3	10786.5	4693.0
72.5°	16627.0	16961.2	19565.7	23352.0	26202.2	25963.9	23489.6	18980.9	11398.4	4096.0	1432.5
75°	11725.1	11872.6	16260.9	19371.6	21074.3	20398.6	17867.8	12236.3	4688.1	1149.9	491.4
77.5°	6054.2	5983.0	9671.1	12852.9	15029.9	14329.7	11700.6	6334.3	1776.5	479.1	304.7
80°	3130.3	3181.9	4184.4	6734.8	9174.7	8442.5	6238.5	2936.2	945.9	265.4	233.4
82.5°	1754.3	1646.3	2405.5	2941.1	4290.1	3363.8	2393.2	2078.7	412.8	159.7	221.1
85°	319.4	334.2	1319.4	1589.7	1489.0	945.9	771.5	1388.3	120.4	88.5	154.8
87.5°	4.9	4.9	255.6	457.0	289.9	132.7	243.3	199.0	24.6	34.4	27.0
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°	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3	5705.3
2.5°	5678.3	5584.9	5410.5	5238.5	5019.8	4840.4	4720.0	4594.7	4466.9	4476.8	4506.2
5°	5580.0	5417.8	5073.8	4710.2	4361.3	4046.8	3737.2	3459.5	3346.5	3243.3	3248.3
7.5°	5481.7	5253.2	4749.5	4179.5	3651.2	3115.6	2727.3	2408.0	2238.4	2110.7	2073.8
10°	5437.5	5135.3	4452.2	3668.4	2919.0	2334.2	1835.4	1575.0	1373.5	1309.6	1326.8
12.5°	5457.1	5076.3	4184.4	3206.5	2314.5	1626.6	1277.7	1145.0	1100.7	1093.4	1088.4
15°	5494.0	5034.5	3921.5	2695.4	1700.3	1208.9	1073.7	1049.1	1044.3	1039.4	1041.8
17.5°	5543.2	4997.7	3641.4	2216.3	1304.7	1056.5	1017.2	1005.0	1002.5	1002.5	1002.5
20°	5592.3	4955.9	3329.3	1788.8	1088.4	997.5	973.0	965.6	963.2	963.2	960.7
22.5°	5648.8	4919.0	3012.4	1405.4	1002.5	955.8	933.6	928.8	926.3	923.9	923.9
25°	5729.9	4872.4	2675.7	1149.9	948.4	916.5	894.3	889.5	887.0	877.2	879.6
27.5°	5838.0	4838.0	2329.3	992.7	899.3	867.3	852.6	845.2	840.3	833.0	835.4
30°	5985.4	4808.5	1960.7	906.6	842.7	815.7	801.0	796.1	791.1	783.8	783.8
32.5°	6241.0	4820.8	1572.5	837.9	791.1	759.2	744.5	739.5	734.7	727.3	727.3
35°	6624.3	4892.0	1258.0	778.9	729.8	697.8	683.1	683.1	675.7	665.9	663.4
37.5°	7250.8	5073.8	1009.8	722.4	670.8	641.3	624.1	619.2	611.8	597.0	594.6
40°	7990.4	5356.4	850.2	665.9	616.7	587.2	572.5	557.7	538.1	523.4	520.9
42.5°	8919.2	5646.4	737.1	609.3	565.1	538.1	520.9	496.3	466.8	447.2	444.7
45°	9887.3	5911.7	660.9	557.7	516.0	493.8	474.2	434.9	398.1	373.5	371.0
47.5°	10609.6	5960.8	599.5	508.6	474.2	452.1	425.1	375.9	326.8	304.7	297.3
50°	10951.2	5722.6	535.7	459.5	432.5	407.9	373.5	317.0	262.9	235.9	231.0
52.5°	11071.5	5309.8	484.1	415.2	390.6	361.2	319.4	255.6	206.4	179.4	176.9
55°	11022.4	4788.8	437.4	373.5	341.5	307.2	265.4	204.0	152.4	130.2	125.3
57.5°	10764.4	4125.4	390.6	331.7	292.4	258.0	211.3	152.4	103.2	83.5	81.1
60°	10069.1	3221.2	344.0	285.0	248.1	211.3	167.1	108.1	63.9	46.7	46.7
62.5°	8894.6	2390.7	299.7	238.3	208.8	169.5	117.9	68.8	34.4	24.6	22.1
65°	7432.6	1764.2	250.6	201.5	174.5	132.7	83.5	41.7	17.2	7.4	4.9
67.5°	5186.9	1088.4	208.8	164.6	142.5	95.8	51.6	17.2	7.4	0.0	0.0
70°	2356.4	518.4	159.7	125.3	108.1	68.8	27.0	9.9	4.9	0.0	0.0
72.5°	732.2	272.7	113.0	90.9	73.7	44.2	14.7	7.4	4.9	0.0	0.0
75°	339.0	174.5	71.3	49.2	41.7	22.1	9.9	4.9	2.4	0.0	0.0
77.5°	253.1	135.1	41.7	27.0	22.1	14.7	7.4	4.9	2.4	0.0	0.0
80°	221.1	68.8	24.6	17.2	12.3	9.9	4.9	2.4	0.0	0.0	0.0
82.5°	199.0	34.4	14.7	9.9	7.4	4.9	2.4	2.4	0.0	0.0	0.0
85°	108.1	19.7	9.9	7.4	4.9	2.4	2.4	0.0	0.0	0.0	0.0
87.5°	19.7	9.9	7.4	4.9	4.9	2.4	2.4	2.4	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)