

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: P458142

Luminaire Tested: **GALN-SA9C-740-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458142  
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-SA9C-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1050mA 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: 52162 lumens  
Efficiency: N/A  
Efficacy: 108.4 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

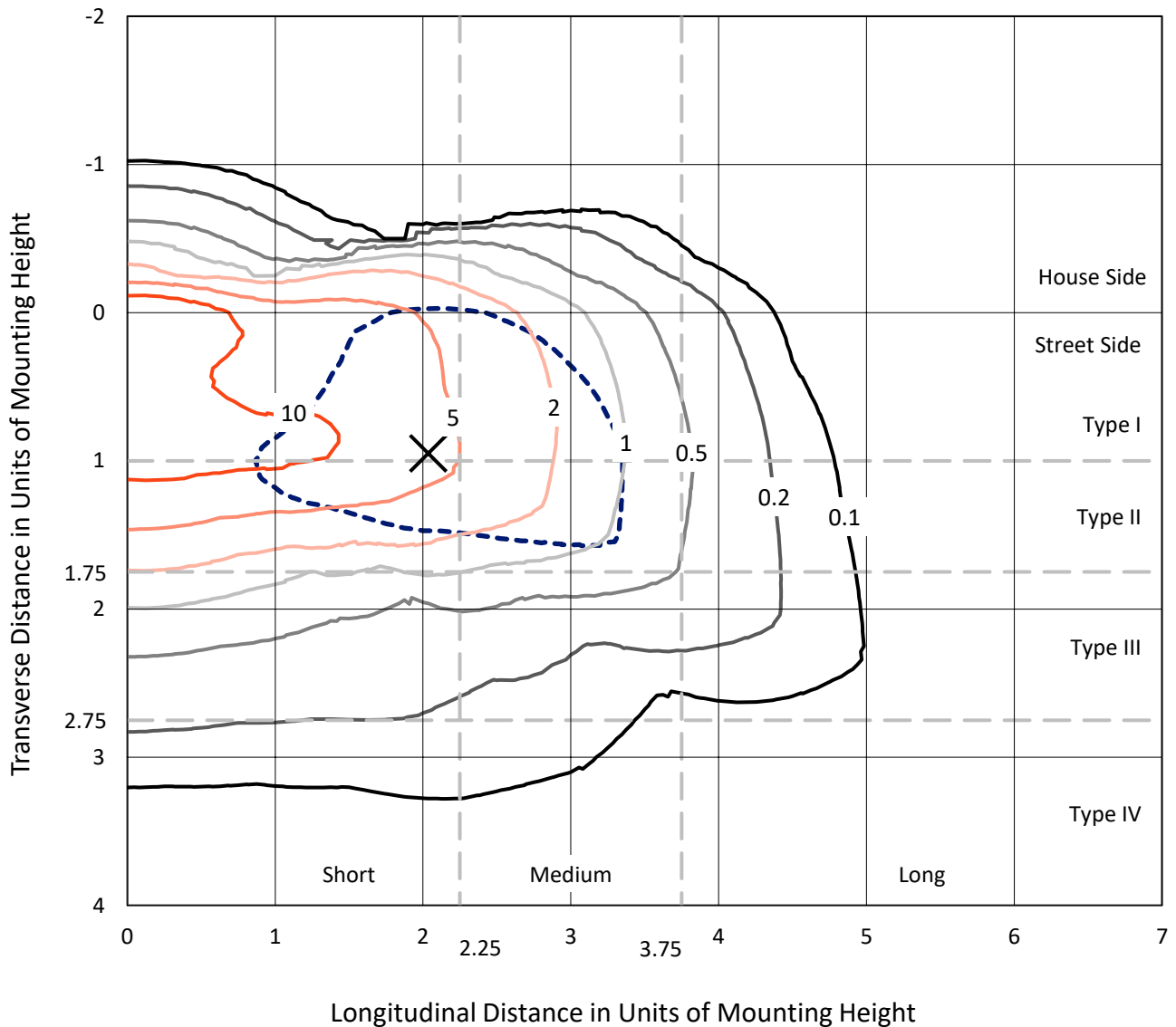
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

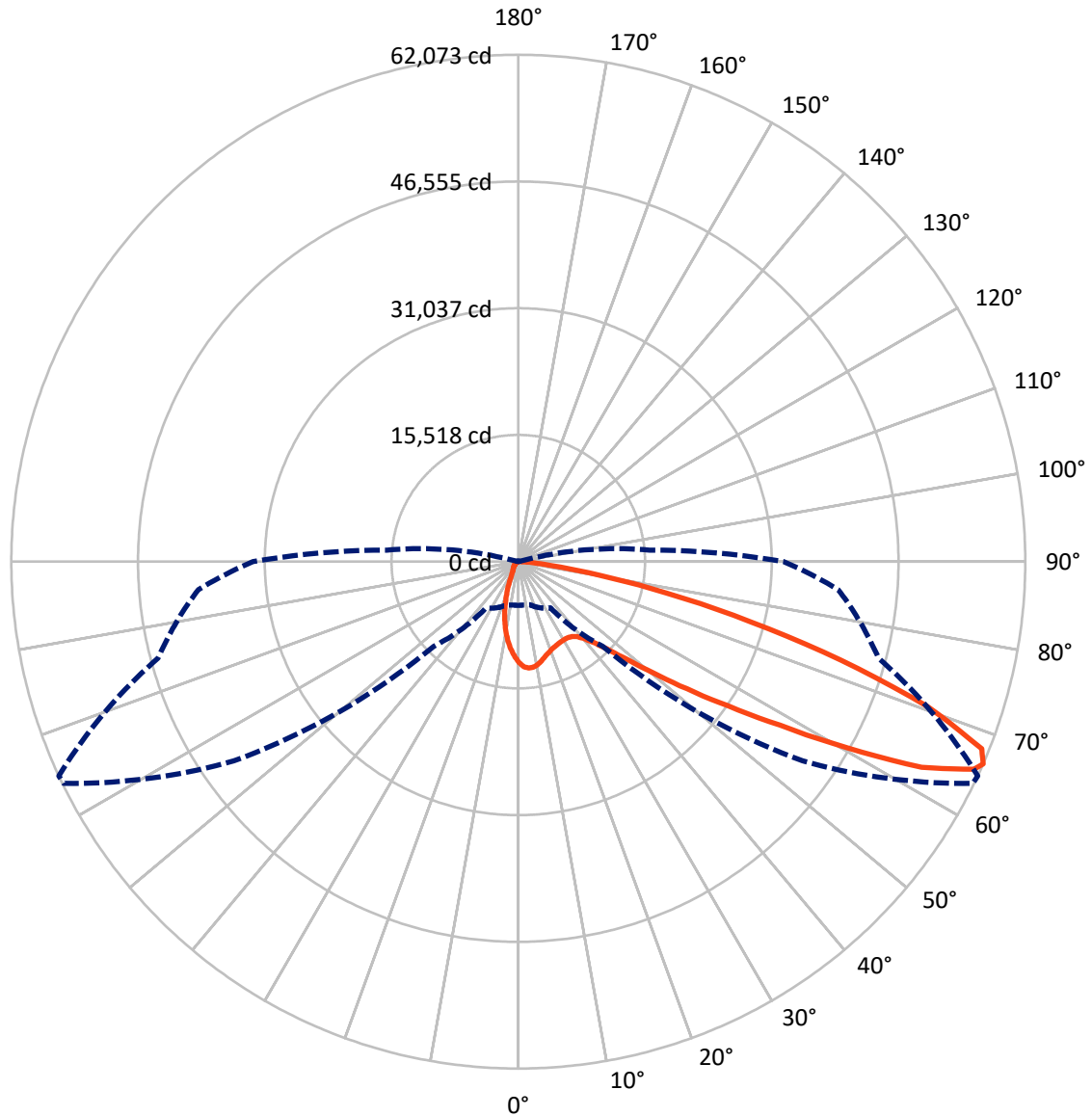
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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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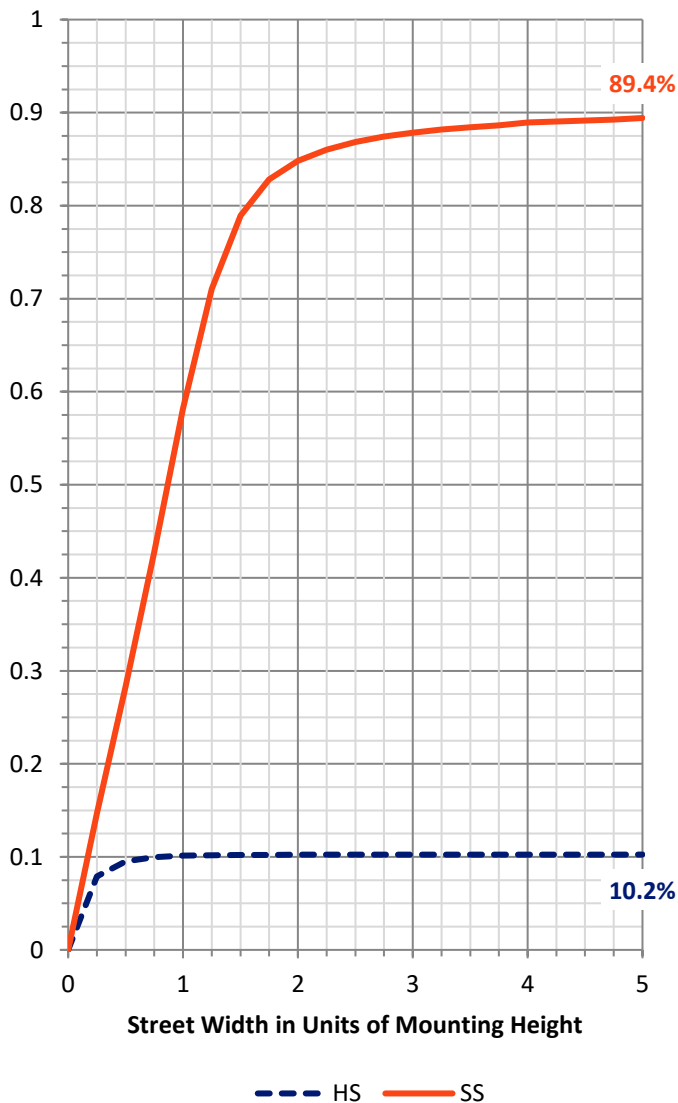
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5394.3	0.0	5394.3
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	46767.7	0.0	46767.7
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	52162.0	0.0	52162.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1011.6	1.9
10°-20°	2204.2	4.2
20°-30°	3157.5	6.1
30°-40°	4611.9	8.8
40°-50°	7733.3	14.8
50°-60°	12905.6	24.7
60°-70°	13698.9	26.3
70°-80°	6204.2	11.9
80°-90°	634.8	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°	52162.0	100.0
0°-180°	52162.0	100.0

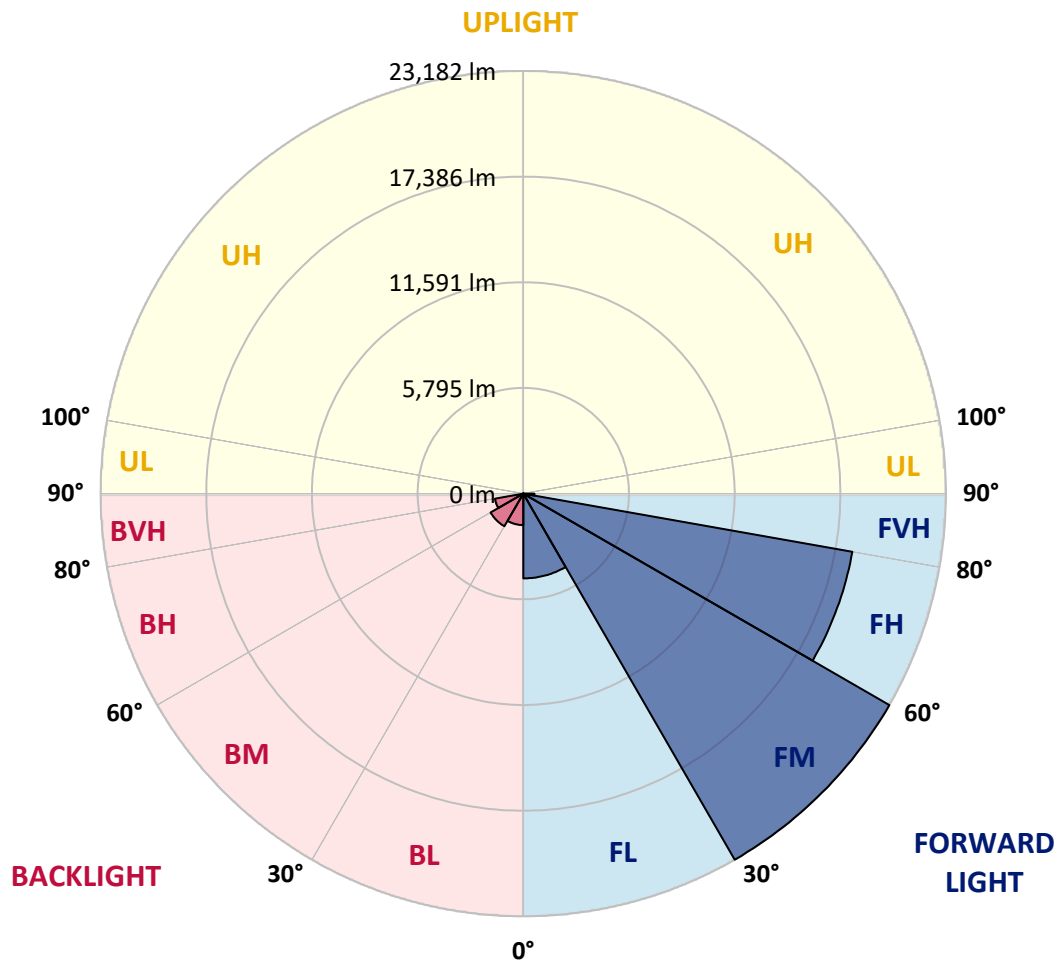


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4647.8	8.9			
FM	(30°-60°)	23182.0	44.4			
FH	(60°-80°)	18323.3	35.1			G5
FVH	(80°-90°)	614.6	1.2			G4/750
BL	(0°-30°)	1725.6	3.3	B3/2500		
BM	(30°-60°)	2068.8	4.0	B2/2500		
BH	(60°-80°)	1579.7	3.0	B3/2500		G3/2500
BVH	(80°-90°)	20.2	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°	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5
2.5°	13035.4	13049.5	13067.1	13091.8	13109.4	13056.5	12982.5	12898.0	12880.4	12700.7	12482.3
5°	12337.8	12359.0	12514.0	12598.5	12788.8	12961.4	13070.6	13084.7	13077.7	12908.6	12559.8
7.5°	11344.3	11404.2	11555.7	11703.7	12059.5	12387.1	12774.7	13046.0	13063.6	13017.8	12584.4
10°	10537.5	10576.3	10653.8	10946.2	11242.1	11742.4	12285.0	12795.8	12838.1	13021.3	12563.3
12.5°	9906.9	9963.3	10058.4	10283.9	10639.7	11111.8	11728.3	12415.3	12503.4	12954.4	12503.4
15°	9466.5	9494.7	9589.8	9811.8	10157.0	10593.9	11217.5	12017.2	12094.7	12866.3	12492.8
17.5°	9258.7	9290.4	9357.3	9533.5	9818.8	10224.0	10833.5	11696.6	11795.3	12809.9	12531.6
20°	9315.0	9343.2	9346.7	9438.3	9632.1	9973.8	10551.6	11397.2	11524.0	12774.7	12595.0
22.5°	9635.6	9639.1	9596.9	9554.6	9621.5	9868.1	10379.0	11206.9	11337.3	12767.6	12669.0
25°	10114.8	10125.3	10054.9	9906.9	9773.0	9899.9	10340.2	11083.6	11199.9	12750.0	12714.8
27.5°	10777.1	10773.6	10752.4	10505.8	10125.3	10040.8	10371.9	11016.7	11115.3	12700.7	12732.4
30°	11703.7	11675.5	11629.7	11351.4	10770.1	10382.5	10505.8	10974.4	11066.0	12630.2	12686.6
32.5°	12616.1	12721.8	12714.8	12450.6	11724.8	10992.0	10784.1	11030.8	11097.7	12584.4	12619.7
35°	13680.1	13676.6	13947.9	13849.2	13000.2	11770.6	11259.8	11217.5	11270.3	12616.1	12588.0
37.5°	14666.6	14758.2	15181.0	15283.1	14508.0	12869.8	11932.7	11619.1	11636.7	12831.1	12665.5
40°	15896.1	16072.3	16702.9	17044.7	16361.2	14501.0	12926.2	12355.4	12359.0	13359.5	12957.9
42.5°	17481.5	17759.8	18348.2	18918.9	18552.5	16431.6	14416.4	13521.6	13514.5	14289.6	13627.3
45°	19408.6	19602.4	20271.8	21177.2	20944.7	19126.8	16586.7	15328.9	15237.3	15815.1	14814.6
47.5°	21071.5	21335.8	22015.7	23048.0	24104.9	22417.4	19179.6	17812.7	17752.8	18242.5	16850.9
50°	21797.3	22029.8	22745.0	24193.0	26754.3	26736.7	23040.9	21437.9	21335.8	21600.0	20000.5
52.5°	21001.1	21219.5	21941.7	23745.6	28001.4	32000.1	28635.6	25986.2	25862.9	25524.7	23763.2
55°	18274.2	18453.9	19521.4	21593.0	27522.3	35509.1	36344.1	31605.6	31126.4	29812.3	28022.6
57.5°	14550.3	14458.7	15121.1	17527.3	24710.9	36685.8	44256.9	38605.9	37749.8	33518.6	31626.7
60°	10083.1	10364.9	10632.7	12218.0	18580.7	34646.0	49178.7	47406.6	46279.2	37165.0	35079.3
62.5°	7412.6	7599.3	7775.4	8508.2	11682.5	27663.2	50048.9	56446.8	55446.2	41036.8	38373.4
65°	5862.4	5876.5	5947.0	6669.2	7697.9	17988.8	45867.0	61544.7	61287.5	44764.3	39708.6
66°	5341.0	5344.5	5453.7	6228.8	6908.8	14649.0	42516.5	61932.2	62073.1	45659.1	39317.6
67.5°	4668.1	4654.0	4812.5	5598.2	6292.2	10562.2	36520.2	60360.9	61195.9	46346.1	37911.9
70°	3618.2	3600.6	3794.4	4696.3	5795.5	7046.2	24274.0	51828.0	53173.8	44940.4	33543.2
72.5°	2409.8	2423.9	2755.0	3706.3	5531.2	6204.1	14603.2	39426.8	41329.3	37112.1	26387.9
75°	1405.7	1430.4	1807.3	2755.0	4802.0	5915.3	8265.1	28114.2	29329.6	25626.9	16438.7
77.5°	736.3	746.9	1011.1	1817.9	3681.6	5492.5	5506.6	17960.7	18531.4	12454.1	6507.1
80°	391.1	380.5	542.6	1095.7	2533.1	4823.1	4467.3	9508.8	9885.8	3699.2	1645.3
82.5°	148.0	162.1	288.9	718.7	1497.3	3463.2	3847.2	4203.0	4072.7	813.8	690.5
85°	28.2	35.2	123.3	426.3	753.9	1448.0	2836.1	2061.0	1909.5	306.5	398.1
87.5°	3.5	7.0	35.2	102.2	109.2	489.7	838.5	570.7	493.2	112.7	165.6
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°	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5	12369.5
2.5°	12376.6	12281.5	11964.4	11650.8	11330.2	11041.3	10844.0	10523.4	10442.4	10326.1	10259.2
5°	12351.9	12130.0	11520.5	10854.6	10234.5	9565.2	9054.3	8561.1	8296.9	8163.0	8113.7
7.5°	12281.5	11929.1	10977.9	9935.1	8941.6	7941.0	7070.8	6408.5	5982.2	5689.8	5492.5
10°	12140.5	11654.3	10347.3	8913.4	7412.6	6091.4	4988.7	4150.2	3501.9	3297.6	3304.6
12.5°	11996.1	11347.8	9642.7	7779.0	5918.8	4252.4	3082.7	2420.4	2110.3	2008.2	1987.0
15°	11862.2	11055.4	8952.1	6679.8	4407.4	2755.0	1987.0	1754.5	1669.9	1652.3	1648.8
17.5°	11791.7	10784.1	8215.8	5422.0	3075.6	1870.8	1592.4	1529.0	1504.4	1486.7	1479.7
20°	11731.9	10548.1	7511.2	4245.3	2103.3	1532.5	1426.8	1367.0	1324.7	1307.1	1296.5
22.5°	11689.6	10305.0	6781.9	3287.0	1610.0	1359.9	1264.8	1187.3	1127.4	1106.2	1092.2
25°	11626.2	10037.3	6045.6	2402.7	1356.4	1208.4	1099.2	1007.6	930.1	891.3	884.3
27.5°	11534.6	9734.3	5238.8	1779.2	1211.9	1074.5	940.7	827.9	750.4	708.1	711.7
30°	11386.6	9417.2	4432.0	1412.8	1095.7	937.1	792.7	683.5	609.5	577.8	574.3
32.5°	11210.4	9033.2	3692.2	1211.9	990.0	813.8	662.3	567.2	510.8	486.2	482.7
35°	11044.9	8645.6	2938.2	1088.6	880.8	701.1	556.6	475.6	433.3	412.2	415.7
37.5°	10953.3	8300.4	2290.0	990.0	792.7	602.4	479.1	408.7	369.9	352.3	348.8
40°	11013.1	8018.5	1821.4	901.9	694.0	517.9	412.2	352.3	313.6	288.9	288.9
42.5°	11295.0	7895.2	1469.1	817.4	602.4	447.4	359.4	303.0	260.7	236.0	239.6
45°	12154.6	8025.6	1229.6	739.8	517.9	387.5	310.0	250.1	211.4	193.8	190.2
47.5°	13581.5	8515.3	1064.0	658.8	443.9	331.2	260.7	207.9	169.1	155.0	151.5
50°	16075.8	9526.4	940.7	577.8	377.0	281.8	214.9	165.6	133.9	119.8	119.8
52.5°	19507.3	11731.9	852.6	486.2	317.1	239.6	176.2	133.9	105.7	95.1	91.6
55°	23093.8	14057.1	806.8	408.7	264.2	197.3	140.9	105.7	81.0	70.5	66.9
57.5°	26542.9	15882.0	753.9	331.2	211.4	151.5	109.2	81.0	56.4	49.3	45.8
60°	29851.1	17358.2	641.2	264.2	165.6	109.2	81.0	56.4	38.8	31.7	31.7
62.5°	32810.4	18217.8	503.8	211.4	126.8	77.5	52.8	42.3	28.2	21.1	21.1
65°	33155.7	17101.0	380.5	162.1	91.6	49.3	31.7	31.7	21.1	14.1	14.1
66°	32461.7	16153.3	334.7	148.0	81.0	42.3	28.2	24.7	17.6	10.6	10.6
67.5°	30911.5	14536.2	288.9	126.8	66.9	31.7	21.1	21.1	14.1	7.0	7.0
70°	26708.5	11872.8	229.0	95.1	49.3	24.7	14.1	14.1	10.6	7.0	7.0
72.5°	20356.4	8864.1	186.7	70.5	35.2	17.6	10.6	10.6	10.6	7.0	7.0
75°	12277.9	4773.8	144.4	52.8	31.7	14.1	7.0	10.6	14.1	10.6	7.0
77.5°	4523.6	1624.1	112.7	42.3	24.7	14.1	7.0	7.0	14.1	10.6	10.6
80°	1109.8	422.8	81.0	35.2	24.7	14.1	7.0	7.0	14.1	14.1	14.1
82.5°	514.4	179.7	56.4	31.7	24.7	14.1	7.0	7.0	10.6	14.1	14.1
85°	295.9	84.6	45.8	35.2	24.7	14.1	7.0	7.0	10.6	14.1	14.1
87.5°	119.8	42.3	42.3	35.2	28.2	17.6	7.0	7.0	7.0	10.6	10.6
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)