

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: P459392

Luminaire Tested: **GALN-SA8C-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459392  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52417 lumens  
Efficiency: N/A  
Efficacy: 122.2 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

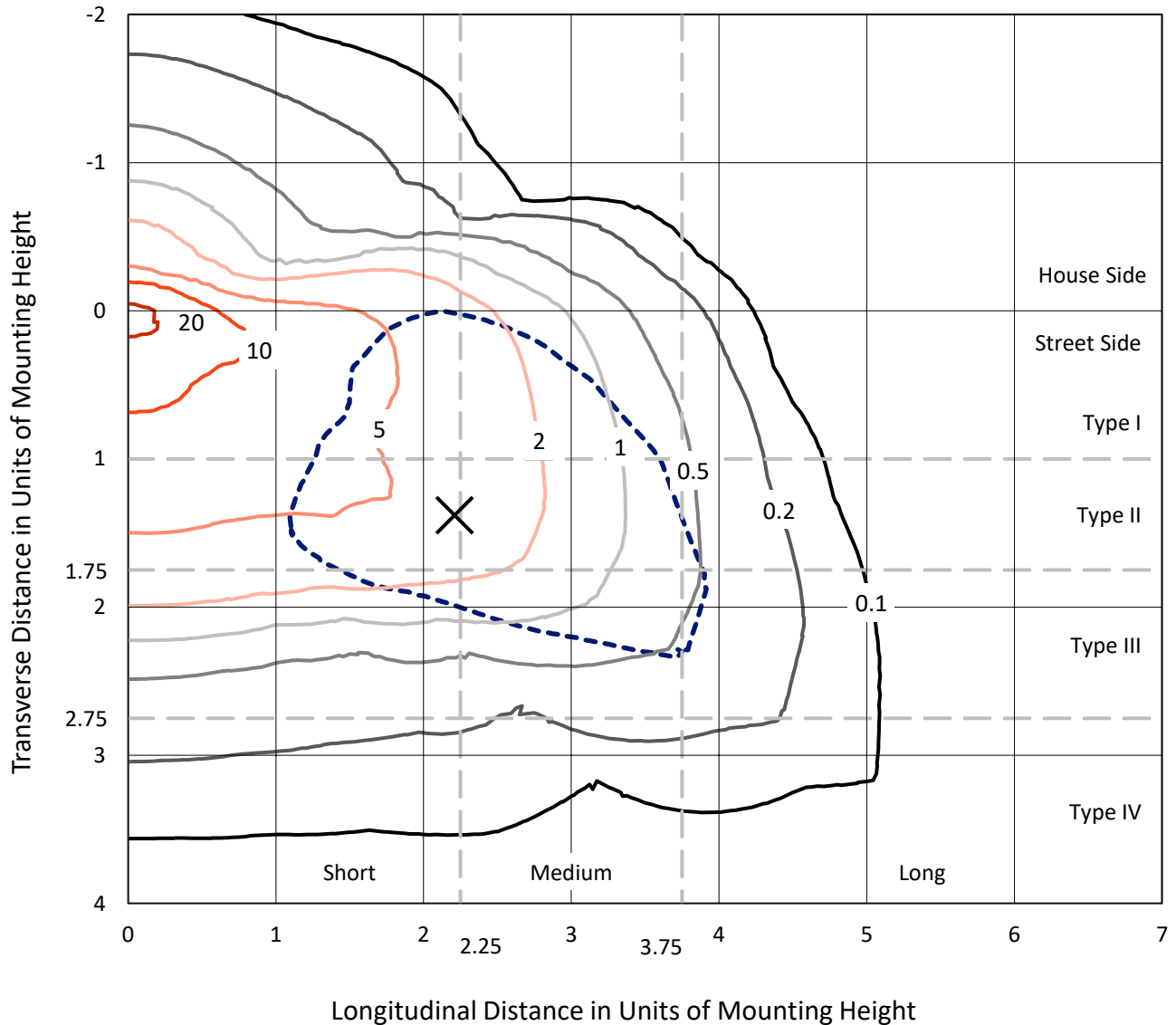
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

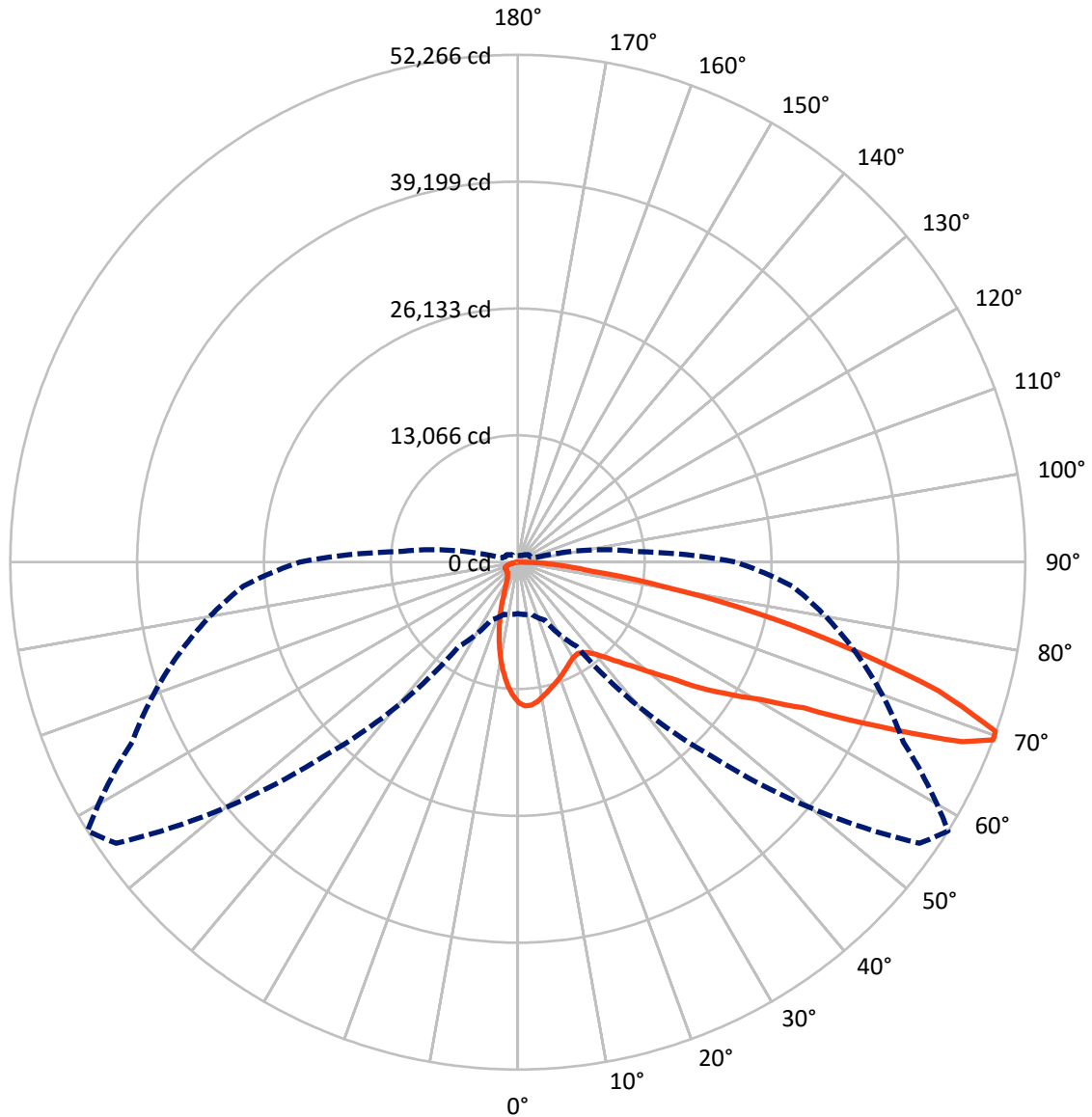
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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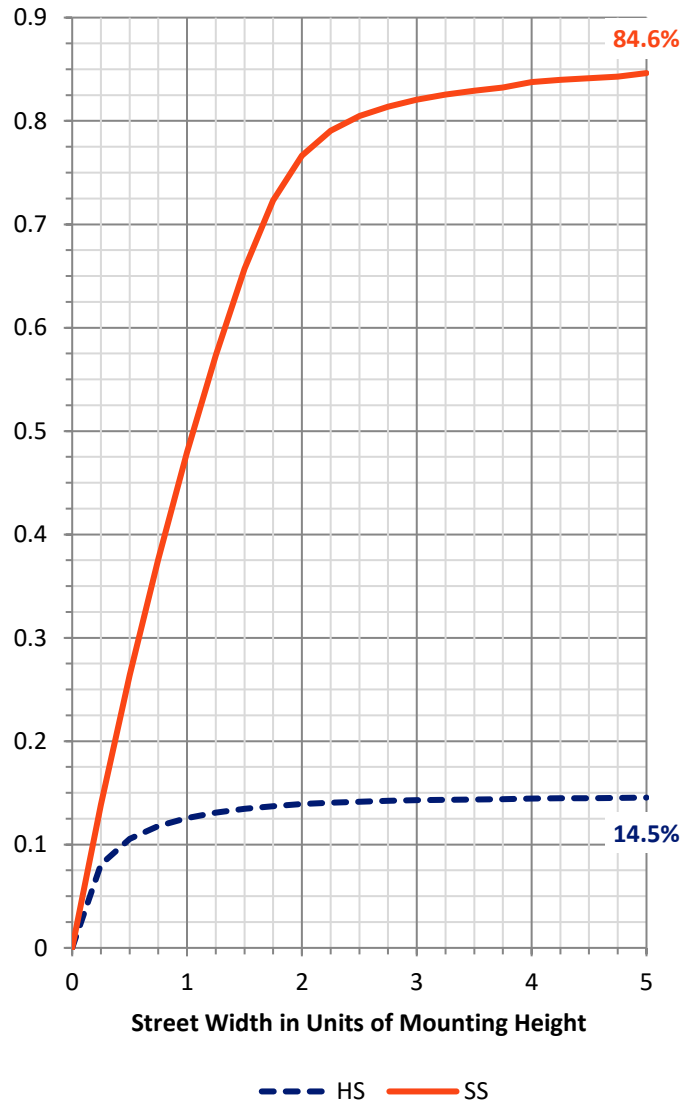
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7681.7	0.0	7681.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	44735.3	0.0	44735.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	52417.0	0.0	52417.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1230.1	2.3
10°-20°	2701.2	5.2
20°-30°	3489.9	6.7
30°-40°	4532.7	8.6
40°-50°	6589.9	12.6
50°-60°	10515.4	20.1
60°-70°	14047.2	26.8
70°-80°	8097.7	15.4
80°-90°	1212.9	2.3
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°	52417.0	100.0
0°-180°	52417.0	100.0



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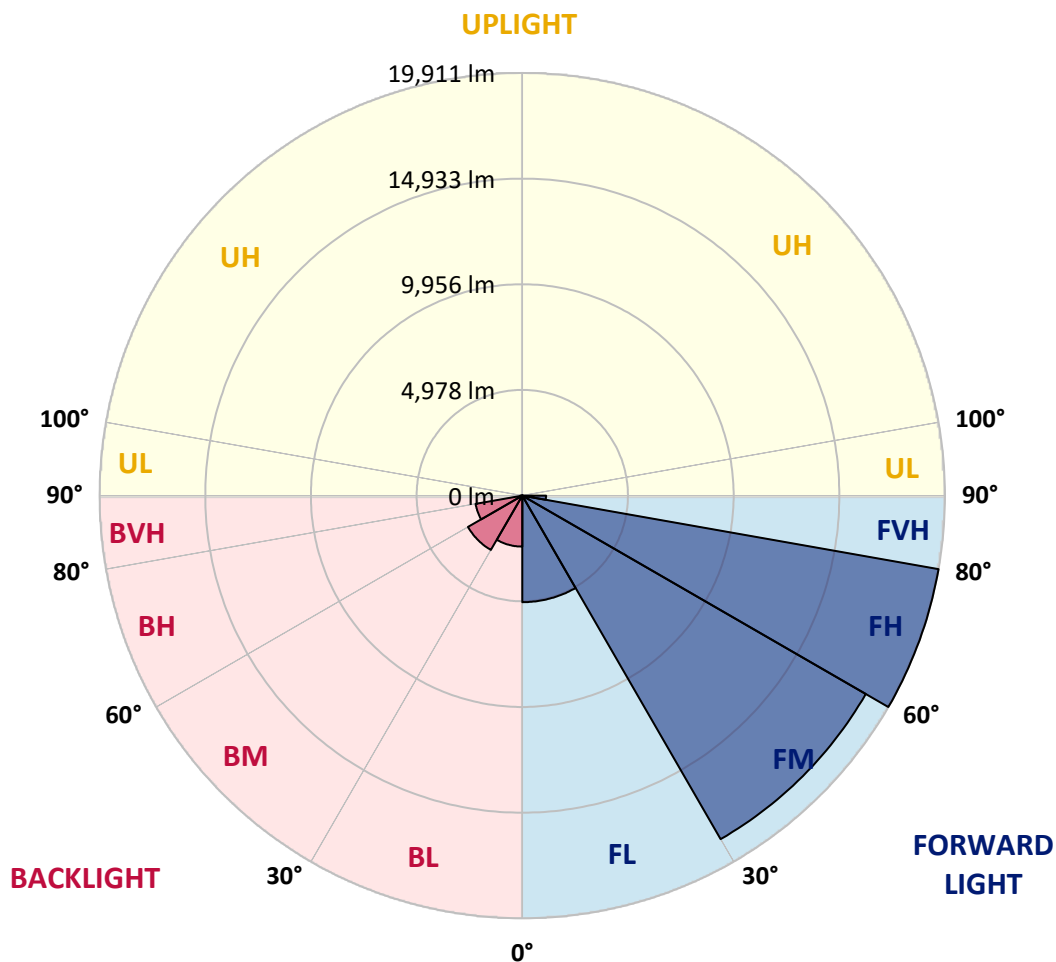
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5020.2	9.6			
FM	(30°-60°)	18683.9	35.6			
FH	(60°-80°)	19911.2	38.0			G5
FVH	(80°-90°)	1119.9	2.1			G5
BL	(0°-30°)	2401.0	4.6	B3/2500		
BM	(30°-60°)	2954.1	5.6	B3/5000		
BH	(60°-80°)	2233.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	92.9	0.2			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0
2.5°	15022.9	15063.8	15052.1	15037.5	15014.1	14949.8	14844.6	14827.0	14759.8	14616.5	14438.2
5°	14791.9	14827.0	14829.9	14850.4	14879.6	14867.9	14791.9	14783.2	14683.8	14490.8	14192.7
7.5°	13999.7	14046.5	14148.8	14262.8	14365.1	14461.6	14485.0	14499.6	14438.2	14216.0	13818.5
10°	13108.1	13154.9	13201.7	13371.2	13622.6	13862.3	14061.1	14087.4	14102.0	13897.4	13412.1
12.5°	12120.0	12216.5	12315.9	12567.3	12903.5	13280.6	13631.4	13686.9	13786.3	13631.4	13061.3
15°	11281.0	11380.4	11523.7	11748.8	12155.1	12698.8	13192.9	13283.5	13479.4	13400.4	12733.9
17.5°	10699.3	10734.4	10833.8	11091.0	11529.5	12102.5	12763.2	12944.4	13257.2	13236.7	12453.3
20°	10240.3	10284.2	10345.6	10503.4	10959.5	11564.6	12362.7	12596.5	13020.4	13090.6	12175.6
22.5°	10047.4	10079.6	10070.8	10155.6	10465.4	11073.5	11956.3	12234.0	12809.9	12991.2	11918.3
25°	10059.1	10088.3	10044.5	10024.0	10208.2	10640.8	11532.4	11886.2	12640.4	12923.9	11684.5
27.5°	10255.0	10275.4	10193.6	10111.7	10126.3	10371.9	11181.7	11573.4	12497.1	12953.2	11488.6
30°	10518.1	10556.1	10503.4	10404.1	10295.9	10307.6	10956.6	11342.4	12429.9	13055.5	11395.1
32.5°	10857.2	10892.2	10868.9	10789.9	10649.6	10494.7	10901.0	11257.7	12435.8	13263.0	11374.6
35°	11213.8	11284.0	11322.0	11316.1	11202.1	10933.2	11120.3	11415.5	12576.1	13610.9	11494.4
37.5°	11617.2	11675.7	11839.4	11944.6	11839.4	11526.6	11614.3	11818.9	12885.9	14113.7	11757.5
40°	12008.9	12096.6	12336.4	12663.8	12622.8	12348.1	12368.5	12503.0	13432.6	14862.1	12272.0
42.5°	12418.2	12523.5	12941.5	13426.8	13523.2	13309.8	13365.4	13485.2	14210.2	15899.9	13154.9
45°	12944.4	13070.1	13584.6	14189.7	14569.8	14438.2	14596.1	14654.5	15250.9	17250.4	14318.4
47.5°	13622.6	13768.8	14403.1	15157.4	15695.2	15815.1	16089.9	16054.8	16540.1	18849.5	15826.8
50°	14765.6	14847.5	15446.8	16215.6	16955.2	17496.0	17794.2	17849.7	18139.1	20404.7	17513.5
52.5°	16125.0	16198.0	16630.7	17303.1	18229.7	19375.7	20112.4	19931.1	20001.3	22299.0	19486.8
55°	17653.9	17776.6	18051.4	18498.7	19700.2	21386.9	22866.1	22910.0	22132.4	24111.4	21378.1
57.5°	18837.8	19045.4	19516.0	20153.3	21676.3	23623.3	25611.1	25640.3	24646.4	26046.7	23465.4
60°	18241.4	18487.0	19562.8	21115.1	24269.3	27525.9	28891.1	28724.4	27093.2	28250.8	26011.6
62.5°	15668.9	15712.8	17276.7	19703.1	25067.4	32746.9	33773.0	33068.5	30358.6	31045.5	28598.7
65°	10141.0	10427.4	11666.9	15066.7	22445.2	35643.9	42326.6	40698.3	34936.5	34217.3	30764.9
67.5°	6402.0	6329.0	6843.5	8603.3	15438.0	33091.8	49626.1	49368.8	40923.4	36219.8	30247.5
69°	5308.7	5390.6	5566.0	6595.0	10623.3	28253.8	50488.4	52265.8	43826.2	36061.9	28367.8
70°	4814.7	4852.7	5036.9	5846.6	8197.0	23664.2	49073.6	52186.9	44966.3	35401.3	27005.5
72.5°	3820.8	3817.8	4133.6	4864.4	6127.3	13508.6	40294.9	45308.3	43691.8	32325.9	22313.6
75°	2902.8	2949.6	3297.5	4116.0	5644.9	7381.4	28119.3	34892.6	34895.5	25532.2	13923.7
77.5°	2093.1	2122.3	2528.7	3455.3	5317.5	5984.0	18729.6	25026.4	23526.8	11699.1	4376.2
80°	1371.0	1388.6	1698.4	2736.2	4794.2	5644.9	11105.6	15318.1	11096.9	3104.6	1447.0
82.5°	751.3	839.0	1037.8	1771.5	3847.1	5215.2	6749.9	7752.6	4162.8	1382.7	754.2
85°	377.1	400.5	584.7	1034.9	2514.0	4314.8	4700.7	4446.4	2148.6	687.0	391.7
87.5°	111.1	140.3	242.6	400.5	1020.2	2248.0	2616.4	2347.4	827.3	248.5	81.9
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°	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0	14485.0
2.5°	14365.1	14312.5	14078.7	13868.2	13675.2	13470.6	13298.1	13146.1	13160.7	13163.7	13008.7
5°	14037.7	13917.9	13473.5	13058.4	12707.6	12263.3	11883.2	11637.7	11514.9	11351.2	11409.7
7.5°	13593.4	13362.4	12745.6	12055.7	11409.7	10833.8	10208.2	9778.5	9503.7	9237.7	9272.7
10°	13134.4	12763.2	11865.7	10953.6	10117.6	9196.7	8398.7	7714.6	7206.0	7015.9	6890.2
12.5°	12663.8	12175.6	11035.5	9822.3	8667.6	7565.5	6434.2	5700.5	5139.2	4841.0	4879.0
15°	12234.0	11640.6	10170.2	8691.0	7191.3	5878.8	4750.4	4051.7	3660.0	3578.1	3624.9
17.5°	11836.5	11058.9	9360.4	7591.8	5840.8	4408.3	3569.4	3174.7	3016.9	2973.0	2970.1
20°	11427.2	10564.8	8451.3	6416.7	4551.6	3417.3	2929.2	2745.0	2715.8	2733.3	2736.2
22.5°	11012.1	9953.9	7515.8	5250.3	3624.9	2794.7	2560.8	2511.1	2534.5	2575.4	2581.3
25°	10629.1	9416.0	6615.4	4227.1	2894.1	2455.6	2341.6	2341.6	2394.2	2455.6	2458.5
27.5°	10313.4	8895.6	5718.0	3356.0	2423.4	2210.0	2172.0	2192.5	2265.6	2312.3	2315.3
30°	10053.3	8410.4	4870.2	2689.4	2131.1	2014.2	2005.4	2040.5	2093.1	2136.9	2139.9
32.5°	9857.4	7983.6	4078.0	2259.7	1929.4	1865.1	1862.1	1888.5	1917.7	1929.4	1941.1
35°	9781.4	7629.8	3353.0	1987.8	1794.9	1754.0	1754.0	1751.1	1762.8	1768.6	1774.4
37.5°	9842.8	7358.0	2791.8	1812.5	1695.5	1666.3	1648.7	1631.2	1625.4	1625.4	1628.3
40°	10103.0	7214.7	2373.7	1698.4	1625.4	1581.5	1549.4	1528.9	1508.4	1514.3	1520.1
42.5°	10655.5	7241.0	2090.2	1622.4	1564.0	1502.6	1455.8	1432.4	1417.8	1435.3	1432.4
45°	11535.4	7504.1	1908.9	1569.8	1502.6	1423.7	1379.8	1356.4	1356.4	1382.7	1391.5
47.5°	12766.1	8006.9	1812.5	1528.9	1455.8	1362.3	1318.4	1300.9	1306.7	1350.6	1353.5
50°	14268.7	8881.0	1794.9	1508.4	1432.4	1318.4	1268.7	1251.2	1265.8	1312.6	1318.4
52.5°	15926.2	10006.5	1879.7	1511.4	1412.0	1292.1	1227.8	1201.5	1216.1	1254.1	1265.8
55°	17890.6	11415.5	2098.9	1523.0	1382.7	1277.5	1198.6	1140.1	1157.6	1183.9	1186.9
57.5°	19896.0	13192.9	2484.8	1526.0	1359.3	1251.2	1148.9	1072.9	1072.9	1090.4	1099.2
60°	22345.8	15128.1	2993.5	1528.9	1362.3	1213.2	1081.6	996.8	985.2	993.9	996.8
62.5°	24778.0	16747.6	3078.2	1520.1	1391.5	1175.2	1008.5	920.8	900.4	897.5	891.6
65°	25850.8	16446.5	2522.8	1479.2	1423.7	1151.8	950.1	847.8	812.7	801.0	801.0
67.5°	24102.7	13912.0	1897.2	1423.7	1403.2	1128.4	894.5	786.4	745.4	722.1	722.1
69°	22459.8	12374.4	1704.3	1385.6	1350.6	1090.4	859.5	754.2	704.5	678.2	669.4
70°	21191.1	11316.1	1622.4	1353.5	1300.9	1046.5	833.1	730.8	675.3	646.1	640.2
72.5°	16911.3	8878.1	1420.7	1230.7	1107.9	879.9	739.6	657.7	605.1	573.0	564.2
75°	9746.3	4811.8	1178.1	1069.9	891.6	684.1	625.6	573.0	532.0	502.8	494.0
77.5°	2999.3	1859.2	853.6	844.8	654.8	529.1	499.9	479.4	450.2	418.0	412.2
80°	1262.9	947.2	578.8	570.0	435.6	368.3	359.6	356.6	345.0	318.6	309.9
82.5°	692.8	535.0	403.4	350.8	263.1	213.4	222.2	225.1	216.3	190.0	172.5
85°	339.1	292.3	195.9	157.9	119.9	76.0	73.1	87.7	81.9	58.5	64.3
87.5°	67.2	81.9	52.6	23.4	11.7	0.0	0.0	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)