

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: P459380

Luminaire Tested: **GALN-SA8B-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42709 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

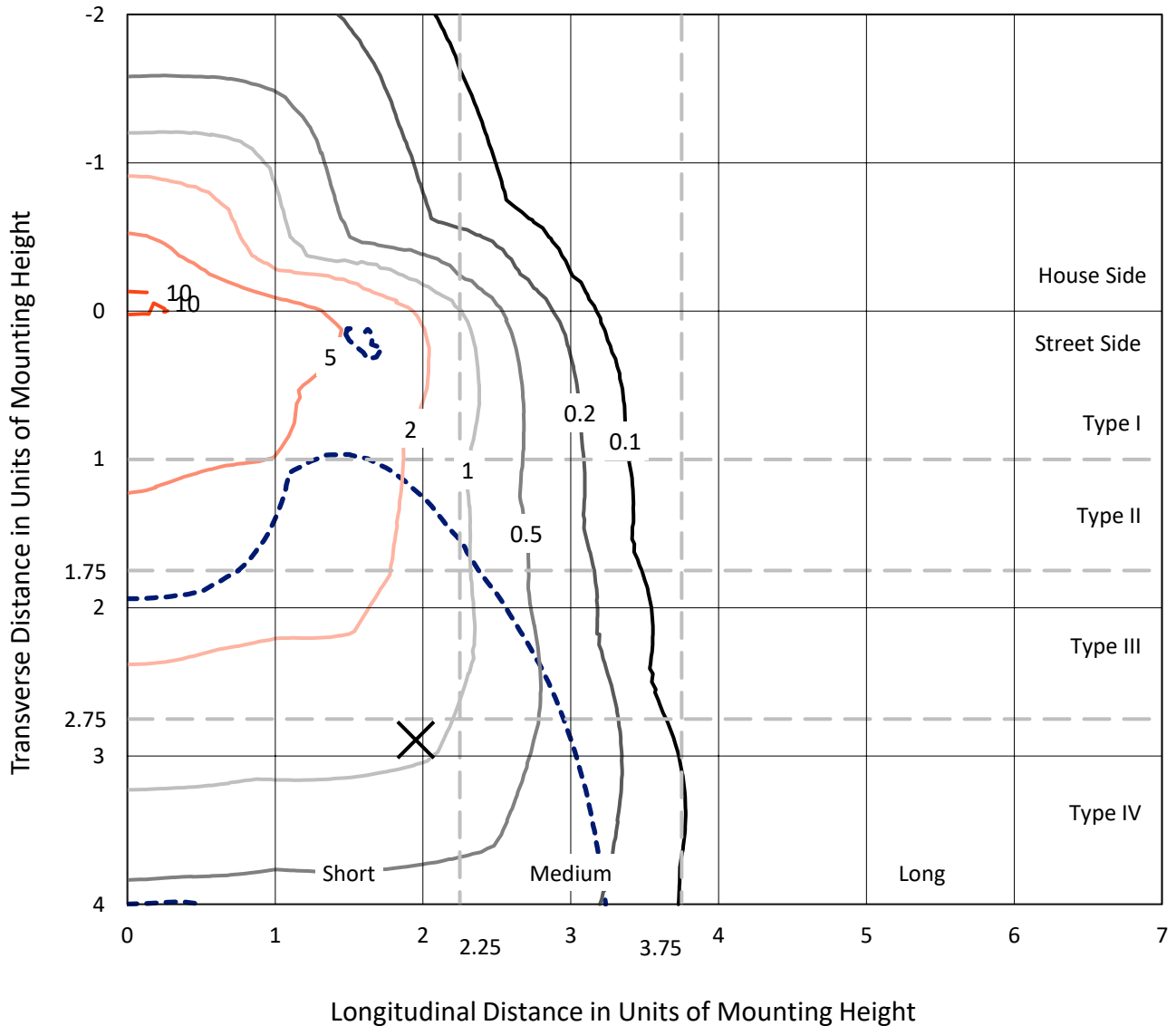
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

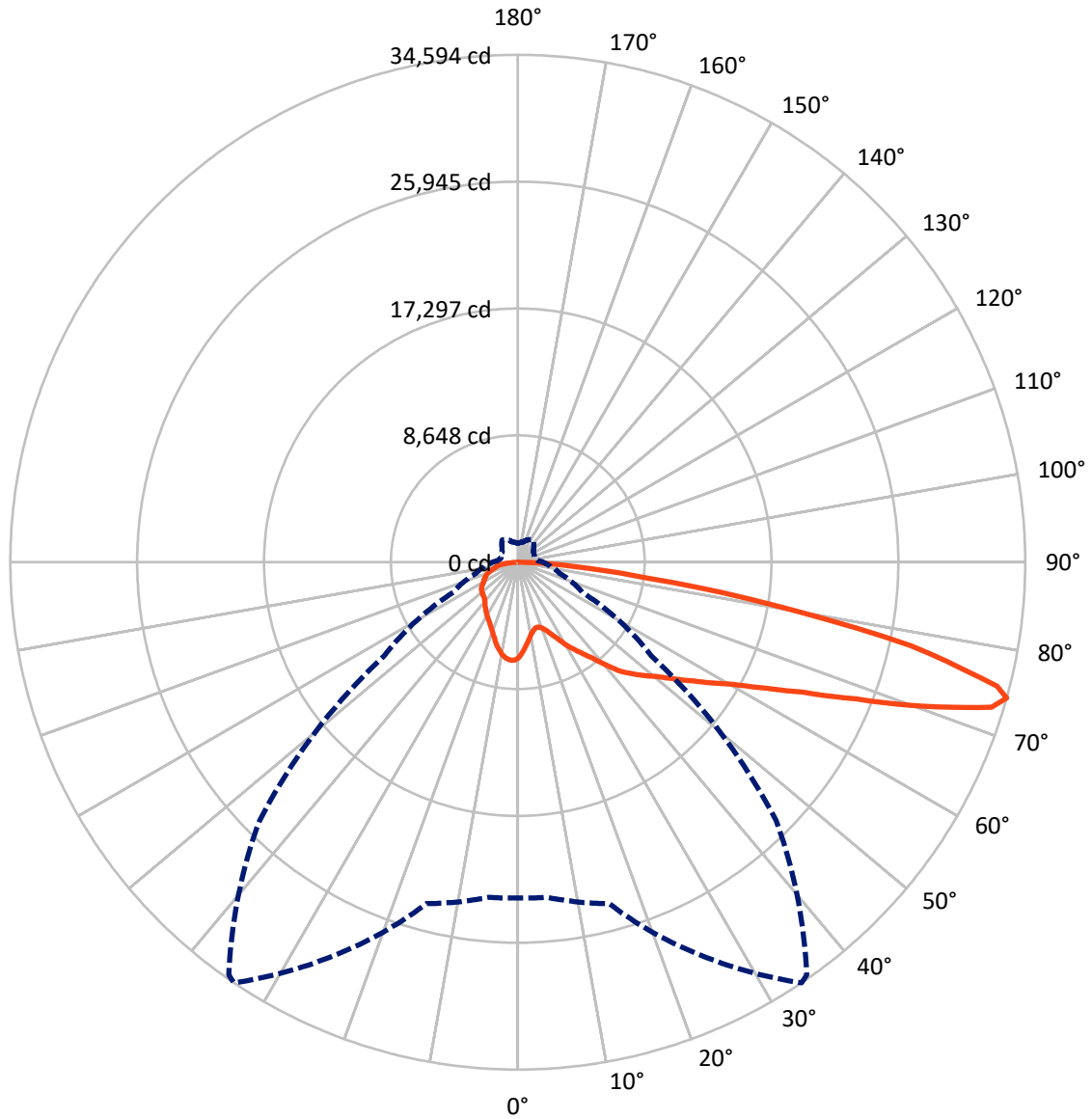
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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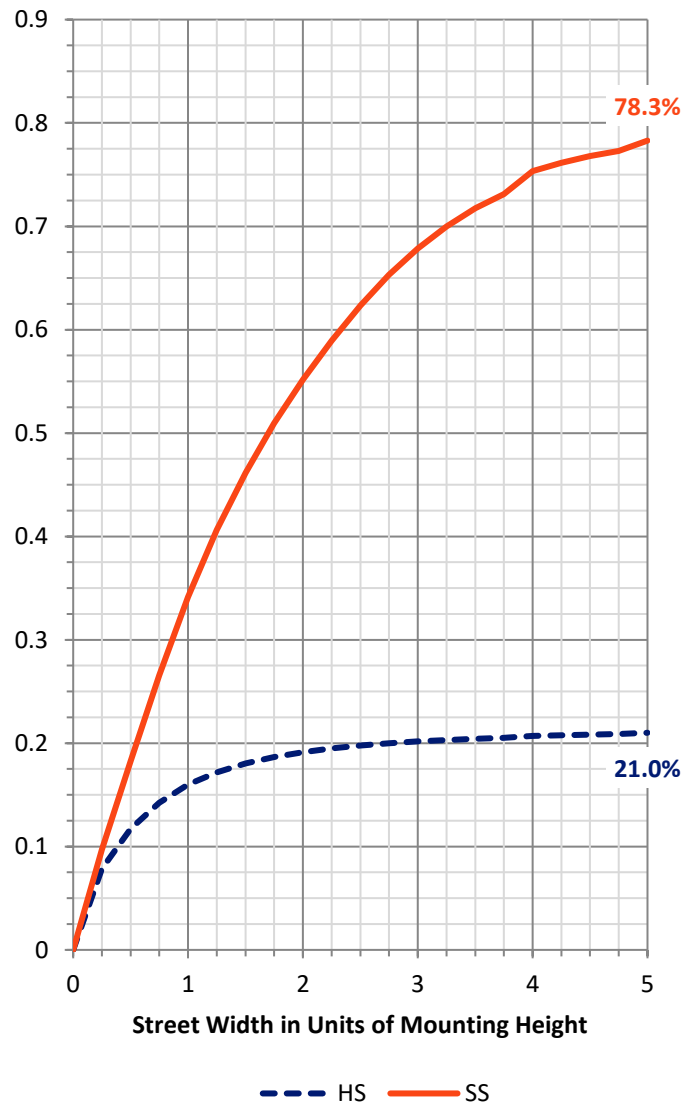
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9088.8	0.0	9088.8
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	33620.2	0.0	33620.2
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	42709.0	0.0	42709.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.0	1.4
10°-20°	1623.4	3.8
20°-30°	2676.6	6.3
30°-40°	4009.2	9.4
40°-50°	5828.4	13.6
50°-60°	8140.8	19.1
60°-70°	10191.9	23.9
70°-80°	8427.9	19.7
80°-90°	1217.8	2.9
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°	42709.0	100.0
0°-180°	42709.0	100.0



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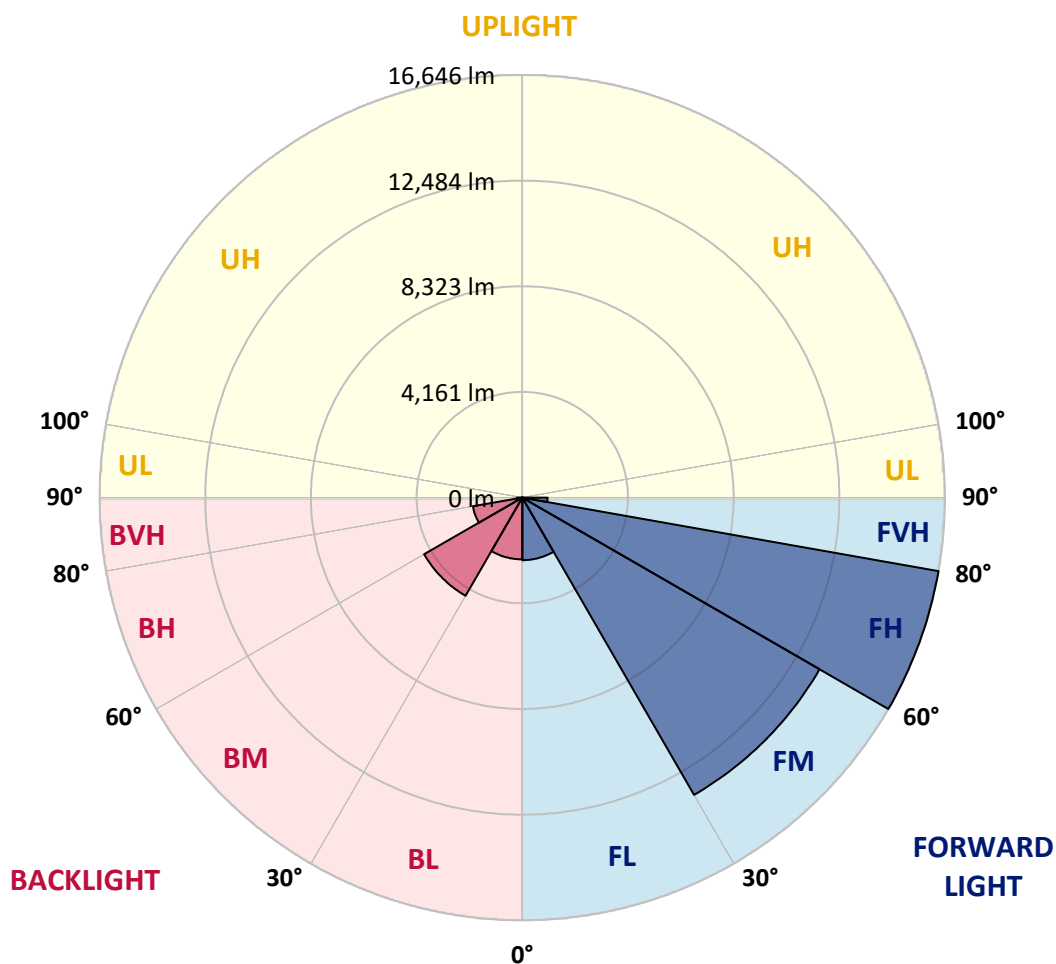
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2462.0	5.8			
FM	(30°-60°)	13514.9	31.6			
FH	(60°-80°)	16645.7	39.0			G5
FVH	(80°-90°)	997.6	2.3			G5
BL	(0°-30°)	2431.1	5.7	B3/2500		
BM	(30°-60°)	4463.5	10.5	B3/5000		
BH	(60°-80°)	1974.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	220.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8
2.5°	6026.3	6057.1	6073.6	6132.8	6147.0	6165.9	6215.6	6281.8	6367.0	6442.7	6509.0
5°	5524.7	5572.0	5600.4	5652.5	5754.2	5763.7	5896.2	6047.6	6220.3	6381.2	6513.7
7.5°	5049.1	5101.2	5124.9	5219.5	5354.4	5375.7	5569.7	5808.6	6097.3	6341.0	6544.5
10°	4691.9	4717.9	4769.9	4840.9	5001.8	5016.0	5269.2	5588.6	5962.4	6322.1	6596.5
12.5°	4497.9	4512.0	4523.9	4599.6	4758.1	4779.4	5044.4	5406.4	5856.0	6336.3	6681.7
15°	4526.2	4531.0	4478.9	4493.1	4620.9	4651.6	4914.3	5285.7	5789.7	6371.8	6809.5
17.5°	4765.2	4748.7	4620.9	4554.6	4644.5	4658.7	4888.2	5238.4	5759.0	6438.0	6942.0
20°	5141.4	5117.8	4897.7	4751.0	4803.1	4814.9	4973.4	5273.9	5789.7	6546.8	7147.8
22.5°	5609.9	5600.4	5266.8	5089.4	5087.0	5087.0	5169.8	5401.7	5882.0	6695.9	7363.1
25°	6265.3	6215.6	5780.2	5550.7	5486.9	5482.1	5472.7	5612.3	6000.3	6854.4	7618.7
27.5°	6937.2	6852.1	6464.0	6111.5	5974.3	5957.7	5896.2	5910.4	6151.7	7034.3	7909.7
30°	7540.6	7486.2	7121.8	6731.4	6568.1	6530.3	6359.9	6281.8	6404.9	7358.4	8373.4
32.5°	8002.0	7968.8	7684.9	7330.0	7088.7	7081.6	6833.1	6769.3	6800.0	7751.2	8903.4
35°	8375.8	8387.6	8243.3	7935.7	7658.9	7618.7	7453.0	7372.6	7282.7	8319.0	9570.7
37.5°	8886.9	8912.9	8903.4	8638.4	8300.1	8309.5	8271.7	8139.2	7900.2	8953.1	10311.2
40°	9450.0	9468.9	9466.5	9364.8	9187.4	9196.8	9182.6	9031.2	8673.9	9759.9	11134.6
42.5°	10228.4	10138.5	9904.3	10006.0	10110.1	10155.1	10252.1	10107.7	9618.0	10621.2	11908.3
45°	11099.1	10928.8	10398.8	10446.1	10831.8	10916.9	11451.7	11252.9	10642.5	11610.2	12819.2
47.5°	11648.0	11480.0	11032.9	11023.4	11534.5	11617.3	12563.7	12490.4	11574.7	12677.3	13931.3
50°	12137.8	12114.1	11610.2	11730.9	12230.1	12353.1	13775.1	13706.5	12504.5	13936.0	15142.7
52.5°	12864.2	12672.5	12270.3	12518.7	13178.9	13339.8	14977.1	14776.0	13358.7	15048.0	16318.6
55°	13190.7	13145.7	13122.1	13337.4	14243.6	14359.5	16145.9	15684.5	14087.4	15989.7	17213.0
57.5°	14063.8	13981.0	14215.2	14361.9	15497.6	15675.0	17366.8	16633.3	14726.3	16737.4	17648.3
60°	15194.7	15149.8	15365.1	15630.1	16898.3	17168.0	18758.0	17442.5	15239.7	17113.6	17409.4
62.5°	16884.1	16879.4	16839.1	17407.0	18883.4	19131.8	20355.1	18230.4	15320.1	16832.0	16174.3
65°	19306.9	19221.7	18871.6	19491.5	21353.6	21644.6	22018.4	18670.5	14835.1	15386.4	13619.0
67.5°	21841.0	21836.2	21552.3	22356.8	24900.3	25200.7	24098.2	18573.5	13488.8	12464.3	9672.4
70°	23942.0	23840.3	24202.3	26345.9	29431.2	29779.0	25917.7	17430.7	10744.2	8231.5	5747.1
72.5°	24446.0	24450.7	25203.1	29421.8	33782.4	33836.8	26573.0	14127.7	7190.4	4540.4	2874.7
74°	22893.9	22934.1	24100.5	29575.6	34593.9	34347.9	24897.9	11103.8	4862.2	2964.7	2072.7
75°	20896.9	20643.7	22330.7	28551.1	33751.6	33486.6	22936.4	8910.5	3710.0	2368.4	1814.8
77.5°	11172.5	11430.4	14033.0	21306.2	27420.1	27114.9	15552.0	4273.1	2004.0	1649.1	1306.1
80°	3977.3	4386.6	6165.9	11148.8	17579.7	17674.4	7422.3	1959.1	1410.2	1216.1	922.8
82.5°	1623.1	1668.1	2647.6	4947.4	8927.1	9012.3	3030.9	1164.1	1007.9	837.6	551.3
85°	634.1	653.0	1171.2	2224.1	3809.3	4057.8	1048.2	615.2	619.9	480.3	281.6
87.5°	212.9	241.3	480.3	740.6	1294.2	1268.2	305.2	182.2	222.4	208.2	87.5
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°	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8	6520.8
2.5°	6542.1	6587.1	6617.8	6651.0	6681.7	6691.2	6684.1	6705.4	6707.7	6710.1	6712.5
5°	6580.0	6641.5	6700.6	6733.8	6748.0	6736.1	6695.9	6674.6	6655.7	6641.5	6646.2
7.5°	6632.0	6719.6	6774.0	6788.2	6750.3	6695.9	6596.5	6518.5	6468.8	6435.6	6433.3
10°	6712.5	6797.6	6842.6	6802.4	6698.3	6565.8	6409.6	6262.9	6151.7	6118.6	6116.2
12.5°	6814.2	6911.2	6908.9	6790.5	6608.4	6371.8	6118.6	5948.2	5796.8	5721.1	5751.9
15°	6946.7	7020.1	6951.4	6738.5	6449.8	6125.7	5813.4	5581.5	5411.1	5330.7	5335.4
17.5°	7100.5	7164.4	6982.2	6646.2	6227.4	5811.0	5449.0	5229.0	5094.1	5034.9	5030.2
20°	7292.2	7311.1	6982.2	6485.3	5941.1	5444.3	5098.8	4945.0	4869.3	4838.6	4848.0
22.5°	7498.0	7460.1	6944.3	6258.2	5564.9	5061.0	4829.1	4760.5	4722.6	4717.9	4722.6
25°	7729.9	7623.4	6866.3	5950.6	5172.2	4729.7	4594.9	4606.7	4613.8	4613.8	4630.3
27.5°	8013.8	7800.8	6736.1	5562.6	4713.2	4422.1	4384.3	4467.1	4504.9	4512.0	4523.9
30°	8387.6	7994.9	6520.8	5077.5	4322.8	4145.3	4211.6	4322.8	4365.4	4391.4	4386.6
32.5°	8832.4	8207.8	6229.8	4592.5	4008.1	3951.3	4031.7	4145.3	4192.6	4206.8	4187.9
35°	9355.3	8449.1	5846.5	4138.2	3733.6	3766.7	3861.4	3896.9	3939.5	3939.5	3948.9
37.5°	9918.5	8643.2	5378.0	3721.8	3520.7	3641.3	3710.0	3676.8	3657.9	3634.2	3646.1
40°	10491.0	8787.5	4769.9	3310.1	3307.7	3511.2	3530.1	3435.5	3359.8	3336.1	3324.3
42.5°	10990.3	8877.4	4221.0	2990.7	3106.6	3383.4	3397.6	3246.2	3125.5	3054.6	3030.9
45°	11579.4	8981.5	3683.9	2725.7	2919.7	3281.7	3317.2	3113.7	2936.3	2787.2	2749.3
47.5°	12386.2	9218.1	3260.4	2519.8	2784.8	3217.8	3267.5	3004.9	2770.6	2576.6	2545.9
50°	13297.2	9542.3	2931.5	2380.2	2680.7	3161.0	3222.6	2893.7	2616.8	2401.5	2377.9
52.5°	14132.4	9717.3	2647.6	2254.8	2579.0	3056.9	3163.4	2813.2	2465.4	2226.4	2205.2
55°	14589.0	9433.4	2368.4	2131.8	2439.4	2922.1	3080.6	2702.0	2318.7	2134.2	2103.4
57.5°	14650.5	8846.6	2115.2	1999.3	2292.7	2756.4	2926.8	2567.2	2224.1	2070.3	2044.3
60°	14175.0	7971.2	1918.9	1890.5	2143.6	2569.5	2754.1	2448.9	2127.1	1999.3	1973.3
62.5°	12992.0	7020.1	1781.6	1791.1	1992.2	2373.1	2626.3	2335.3	2034.8	1921.2	1897.6
65°	10957.2	5794.4	1649.1	1689.4	1857.3	2219.4	2510.4	2240.6	1942.5	1862.1	1840.8
67.5°	7611.6	4183.2	1540.3	1582.9	1729.6	2063.2	2375.5	2138.9	1838.4	1795.8	1762.7
70°	4213.9	2574.3	1412.5	1462.2	1597.1	1888.1	2224.1	1985.1	1687.0	1668.1	1620.7
72.5°	2214.6	1639.7	1268.2	1322.6	1417.3	1663.3	1992.2	1817.1	1537.9	1457.5	1396.0
74°	1729.6	1343.9	1171.2	1228.0	1291.9	1530.8	1855.0	1696.5	1431.5	1336.8	1289.5
75°	1507.2	1197.2	1088.4	1161.7	1218.5	1440.9	1748.5	1611.3	1372.3	1282.4	1239.8
77.5°	1064.7	896.7	889.6	977.2	1007.9	1263.5	1575.8	1466.9	1223.2	1128.6	1088.4
80°	747.7	672.0	705.1	759.5	802.1	1116.8	1462.2	1268.2	1003.2	892.0	877.8
82.5°	487.4	440.1	504.0	553.7	567.9	823.4	1180.7	963.0	731.1	593.9	551.3
85°	224.8	220.0	288.7	281.6	279.2	402.2	700.3	563.1	421.2	314.7	295.8
87.5°	56.8	54.4	71.0	59.2	71.0	61.5	63.9	16.6	2.4	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)