

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: P459247

Luminaire Tested: **GALN-SA7B-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459247  
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-SA7B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA 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: 36594 lumens  
Efficiency: N/A  
Efficacy: 128.0 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

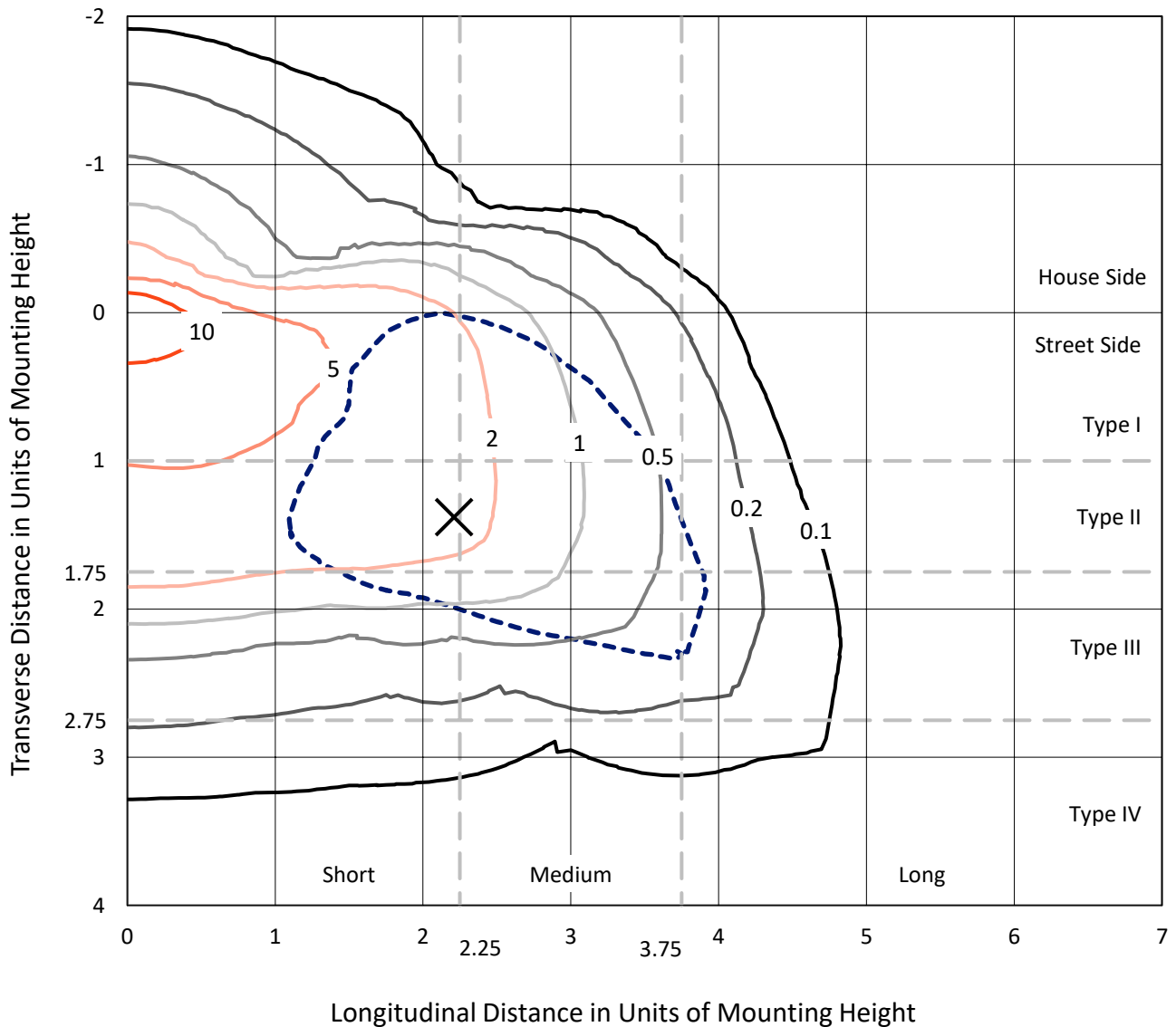
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

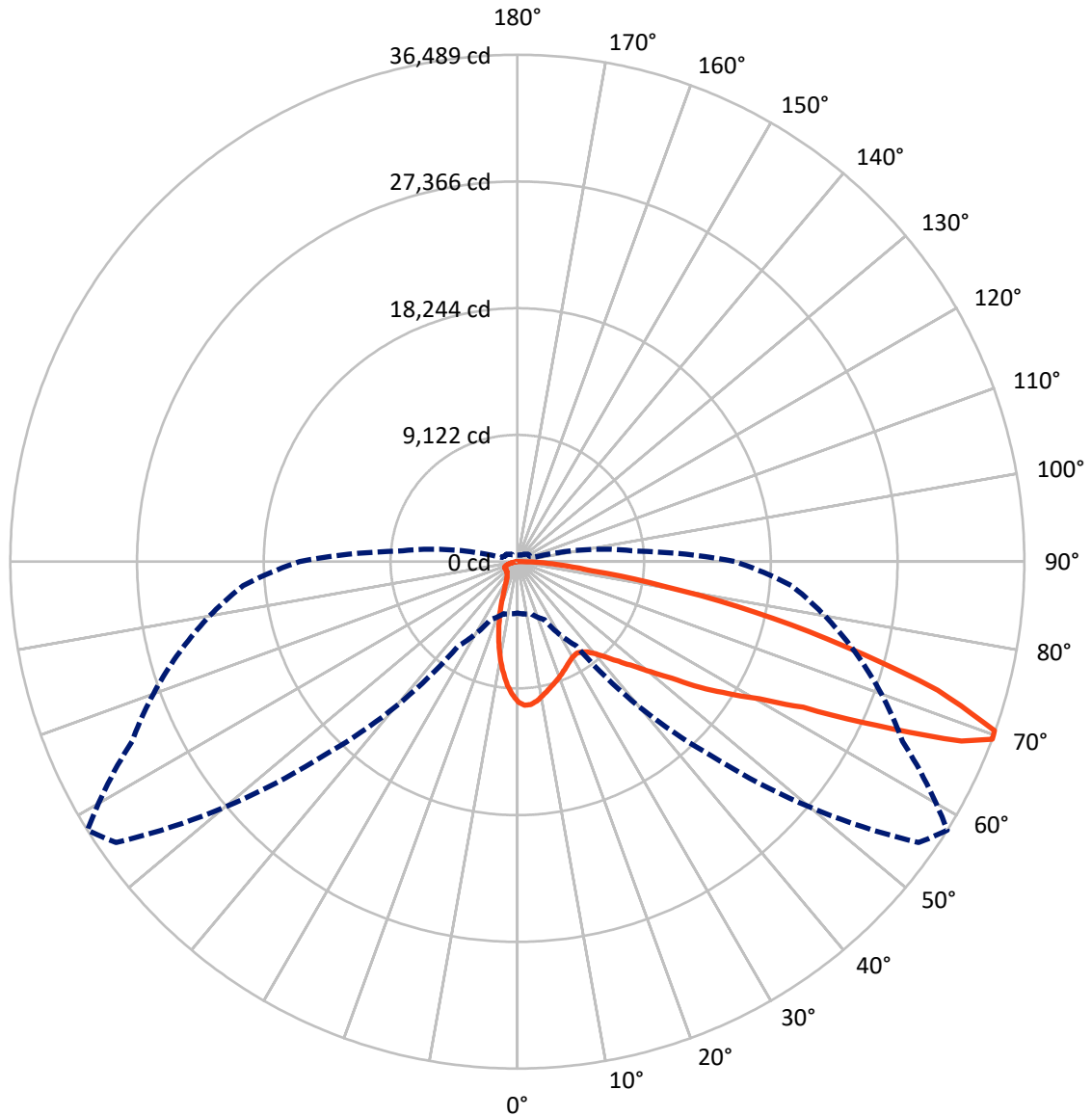
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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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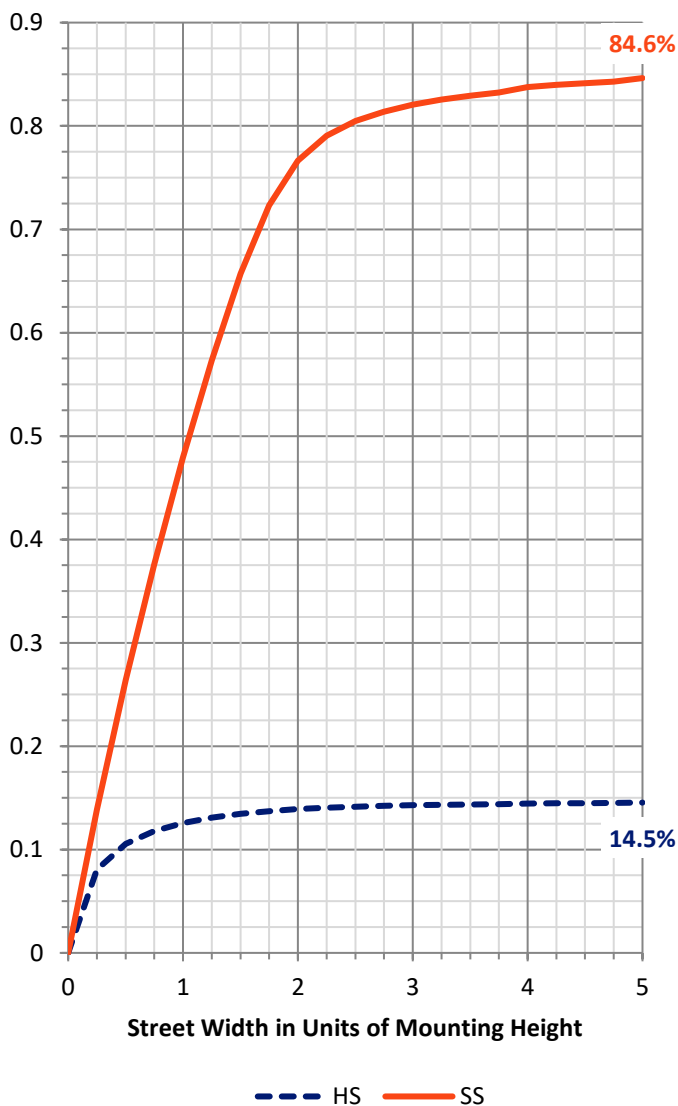
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5362.8	0.0	5362.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	31231.2	0.0	31231.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	36594.0	0.0	36594.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	858.8	2.3
10°-20°	1885.8	5.2
20°-30°	2436.4	6.7
30°-40°	3164.5	8.6
40°-50°	4600.6	12.6
50°-60°	7341.1	20.1
60°-70°	9806.8	26.8
70°-80°	5653.2	15.4
80°-90°	846.7	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°	36594.0	100.0
0°-180°	36594.0	100.0

**Coefficient of Utilization**



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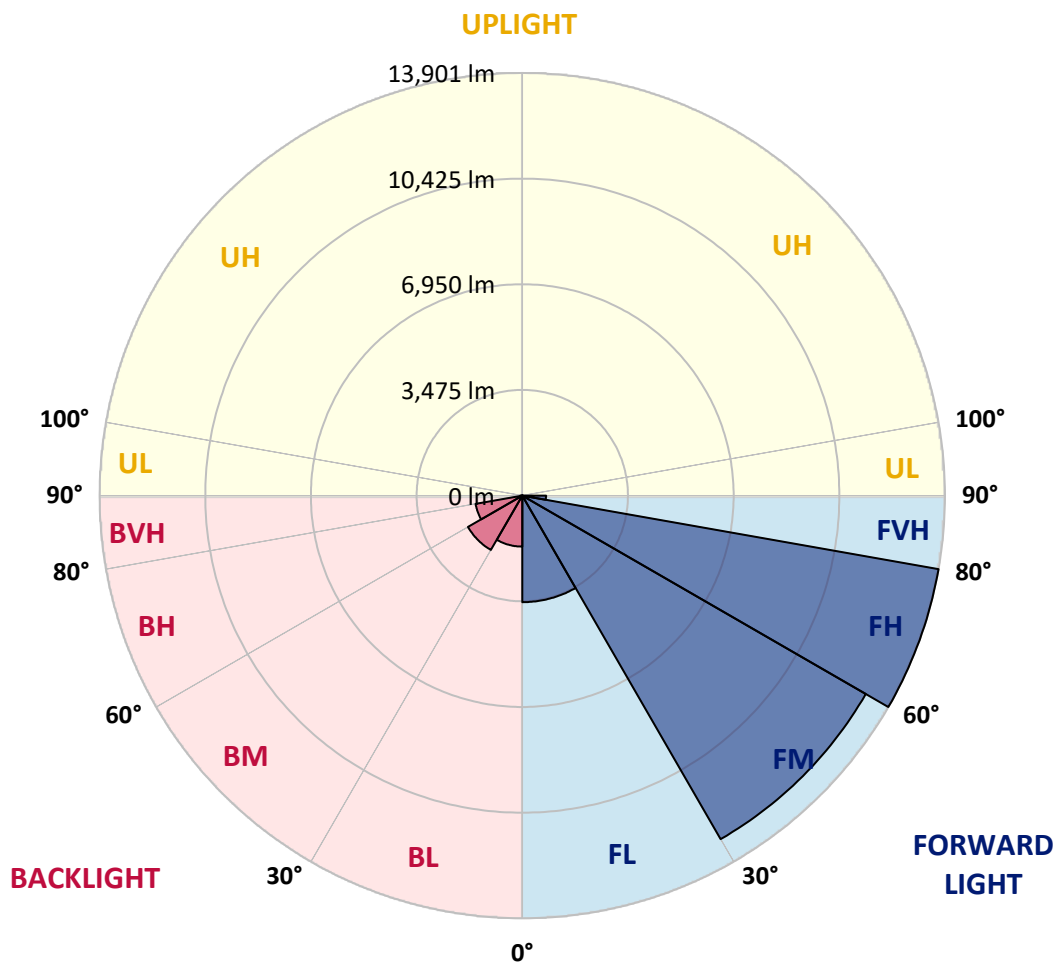
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3504.8	9.6			
FM	(30°-60°)	13043.9	35.6			
FH	(60°-80°)	13900.7	38.0			G5
FVH	(80°-90°)	781.9	2.1			G5
BL	(0°-30°)	1676.2	4.6	B3/2500		
BM	(30°-60°)	2062.4	5.6	B2/2500		
BH	(60°-80°)	1559.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	64.9	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°	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4
2.5°	10488.0	10516.5	10508.4	10498.2	10481.8	10436.9	10363.5	10351.2	10304.3	10204.3	10079.8
5°	10326.7	10351.2	10353.3	10367.5	10388.0	10379.8	10326.7	10320.6	10251.2	10116.5	9908.4
7.5°	9773.7	9806.3	9877.7	9957.3	10028.8	10096.1	10112.4	10122.6	10079.8	9924.7	9647.1
10°	9151.2	9183.8	9216.5	9334.9	9510.4	9677.7	9816.5	9834.9	9845.1	9702.2	9363.4
12.5°	8461.4	8528.7	8598.1	8773.6	9008.3	9271.6	9516.5	9555.3	9624.7	9516.5	9118.5
15°	7875.7	7945.1	8045.1	8202.2	8485.9	8865.5	9210.4	9273.6	9410.4	9355.3	8890.0
17.5°	7469.5	7494.0	7563.4	7743.0	8049.1	8449.1	8910.4	9036.9	9255.3	9241.0	8694.0
20°	7149.1	7179.7	7222.6	7332.8	7651.2	8073.6	8630.8	8794.0	9090.0	9139.0	8500.2
22.5°	7014.4	7036.9	7030.7	7089.9	7306.3	7730.8	8347.1	8541.0	8943.0	9069.6	8320.6
25°	7022.6	7043.0	7012.4	6998.1	7126.7	7428.7	8051.2	8298.1	8824.7	9022.6	8157.3
27.5°	7159.3	7173.6	7116.5	7059.3	7069.5	7241.0	7806.3	8079.7	8724.7	9043.0	8020.6
30°	7343.0	7369.5	7332.8	7263.4	7187.9	7196.1	7649.1	7918.5	8677.7	9114.5	7955.3
32.5°	7579.7	7604.2	7587.9	7532.8	7434.8	7326.7	7610.4	7859.3	8681.8	9259.4	7941.0
35°	7828.7	7877.7	7904.2	7900.2	7820.6	7632.8	7763.4	7969.5	8779.8	9502.2	8024.6
37.5°	8110.4	8151.2	8265.5	8338.9	8265.5	8047.1	8108.3	8251.2	8996.1	9853.3	8208.3
40°	8383.8	8445.1	8612.4	8841.0	8812.4	8620.6	8634.9	8728.7	9377.7	10375.7	8567.5
42.5°	8669.6	8743.0	9034.9	9373.6	9441.0	9292.0	9330.8	9414.5	9920.6	11100.2	9183.8
45°	9036.9	9124.7	9483.9	9906.3	10171.6	10079.8	10190.0	10230.8	10647.1	12043.1	9996.1
47.5°	9510.4	9612.4	10055.3	10581.8	10957.4	11041.0	11232.9	11208.4	11547.2	13159.4	11049.2
50°	10308.4	10365.5	10783.9	11320.6	11837.0	12214.5	12422.7	12461.5	12663.5	14245.2	12226.8
52.5°	11257.4	11308.4	11610.4	12079.8	12726.8	13526.8	14041.1	13914.6	13963.5	15567.6	13604.3
55°	12324.7	12410.4	12602.3	12914.5	13753.3	14930.9	15963.6	15994.2	15451.3	16833.0	14924.8
57.5°	13151.3	13296.2	13624.8	14069.7	15132.9	16492.2	17879.9	17900.3	17206.5	18184.0	16381.9
60°	12734.9	12906.4	13657.4	14741.1	16943.2	19216.7	20169.8	20053.4	18914.6	19722.8	18159.5
62.5°	10939.0	10969.6	12061.5	13755.4	17500.3	22861.7	23578.0	23086.2	21194.3	21673.9	19965.7
65°	7079.7	7279.7	8145.1	10518.6	15669.7	24884.2	29549.5	28412.8	24390.3	23888.2	21478.0
67.5°	4469.5	4418.5	4777.6	6006.2	10777.8	23102.5	34645.6	34466.0	28569.9	25286.2	21116.7
69°	3706.2	3763.3	3885.8	4604.2	7416.5	19724.9	35247.6	36488.5	30596.5	25176.0	19804.5
70°	3361.3	3387.8	3516.4	4081.7	5722.6	16520.7	34259.8	36433.4	31392.4	24714.8	18853.4
72.5°	2667.4	2665.4	2885.8	3396.0	4277.6	9430.8	28131.2	31631.2	30502.6	22567.8	15577.9
75°	2026.6	2059.2	2302.1	2873.5	3940.9	5153.2	19631.0	24359.7	24361.7	17824.8	9720.6
77.5°	1461.3	1481.7	1765.3	2412.3	3712.3	4177.6	13075.8	17471.8	16424.8	8167.5	3055.2
80°	957.2	969.4	1185.7	1910.2	3347.0	3940.9	7753.2	10694.1	7747.1	2167.4	1010.2
82.5°	524.5	585.7	724.5	1236.8	2685.8	3640.9	4712.3	5412.3	2906.2	965.3	526.5
85°	263.3	279.6	408.2	722.5	1755.1	3012.3	3281.7	3104.1	1500.0	479.6	273.5
87.5°	77.6	98.0	169.4	279.6	712.3	1569.4	1826.6	1638.8	577.6	173.5	57.1
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°	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4	10112.4
2.5°	10028.8	9992.0	9828.8	9681.8	9547.1	9404.3	9283.9	9177.7	9187.9	9190.0	9081.8
5°	9800.2	9716.5	9406.3	9116.5	8871.6	8561.4	8296.1	8124.6	8038.9	7924.6	7965.5
7.5°	9490.0	9328.8	8898.1	8416.5	7965.5	7563.4	7126.7	6826.7	6634.8	6449.1	6473.6
10°	9169.6	8910.4	8283.8	7647.1	7063.4	6420.5	5863.4	5385.8	5030.7	4898.1	4810.3
12.5°	8841.0	8500.2	7704.2	6857.3	6051.1	5281.7	4491.9	3979.7	3587.8	3379.7	3406.2
15°	8541.0	8126.7	7100.1	6067.5	5020.5	4104.2	3316.4	2828.6	2555.2	2498.0	2530.7
17.5°	8263.4	7720.6	6534.8	5300.1	4077.6	3077.6	2491.9	2216.4	2106.2	2075.6	2073.5
20°	7977.7	7375.7	5900.1	4479.7	3177.6	2385.8	2044.9	1916.4	1896.0	1908.2	1910.2
22.5°	7687.9	6949.1	5247.0	3665.4	2530.7	1951.1	1787.8	1753.1	1769.4	1798.0	1802.1
25°	7420.6	6573.6	4618.5	2951.1	2020.4	1714.3	1634.7	1634.7	1671.5	1714.3	1716.4
27.5°	7200.1	6210.3	3991.9	2342.9	1691.9	1542.9	1516.4	1530.6	1581.7	1614.3	1616.4
30°	7018.5	5871.5	3400.1	1877.6	1487.8	1406.1	1400.0	1424.5	1461.3	1491.9	1493.9
32.5°	6881.8	5573.6	2847.0	1577.6	1347.0	1302.1	1300.0	1318.4	1338.8	1347.0	1355.1
35°	6828.7	5326.6	2340.9	1387.8	1253.1	1224.5	1224.5	1222.5	1230.6	1234.7	1238.8
37.5°	6871.6	5136.8	1949.0	1265.3	1183.7	1163.3	1151.0	1138.8	1134.7	1134.7	1136.8
40°	7053.2	5036.8	1657.2	1185.7	1134.7	1104.1	1081.7	1067.4	1053.1	1057.2	1061.2
42.5°	7438.9	5055.2	1459.2	1132.7	1091.9	1049.0	1016.3	1000.0	989.8	1002.1	1000.0
45°	8053.2	5238.9	1332.7	1095.9	1049.0	993.9	963.3	947.0	947.0	965.3	971.4
47.5°	8912.4	5589.9	1265.3	1067.4	1016.3	951.0	920.4	908.2	912.3	942.9	944.9
50°	9961.4	6200.1	1253.1	1053.1	1000.0	920.4	885.7	873.5	883.7	916.3	920.4
52.5°	11118.6	6985.8	1312.3	1055.1	985.7	902.1	857.2	838.8	849.0	875.5	883.7
55°	12490.0	7969.5	1465.3	1063.3	965.3	891.9	836.8	795.9	808.2	826.5	828.6
57.5°	13890.1	9210.4	1734.7	1065.3	949.0	873.5	802.1	749.0	749.0	761.2	767.4
60°	15600.3	10561.4	2089.8	1067.4	951.0	847.0	755.1	695.9	687.8	693.9	695.9
62.5°	17298.3	11692.1	2149.0	1061.2	971.4	820.4	704.1	642.9	628.6	626.5	622.5
65°	18047.3	11481.9	1761.3	1032.7	993.9	804.1	663.3	591.8	567.4	559.2	559.2
67.5°	16826.9	9712.4	1324.5	993.9	979.6	787.8	624.5	549.0	520.4	504.1	504.1
69°	15679.9	8638.9	1189.8	967.4	942.9	761.2	600.0	526.5	491.8	473.5	467.4
70°	14794.2	7900.2	1132.7	944.9	908.2	730.6	581.6	510.2	471.4	451.0	446.9
72.5°	11806.3	6198.1	991.9	859.2	773.5	614.3	516.3	459.2	422.5	400.0	393.9
75°	6804.2	3359.2	822.5	747.0	622.5	477.6	436.7	400.0	371.4	351.0	344.9
77.5°	2093.9	1298.0	595.9	589.8	457.2	369.4	349.0	334.7	314.3	291.8	287.8
80°	881.6	661.2	404.1	398.0	304.1	257.1	251.0	249.0	240.8	222.5	216.3
82.5°	483.7	373.5	281.6	244.9	183.7	149.0	155.1	157.1	151.0	132.7	120.4
85°	236.7	204.1	136.7	110.2	83.7	53.1	51.0	61.2	57.1	40.8	44.9
87.5°	46.9	57.1	36.7	16.3	8.2	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)