

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: P457302

Luminaire Tested: **GALN-SA8C-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41658 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

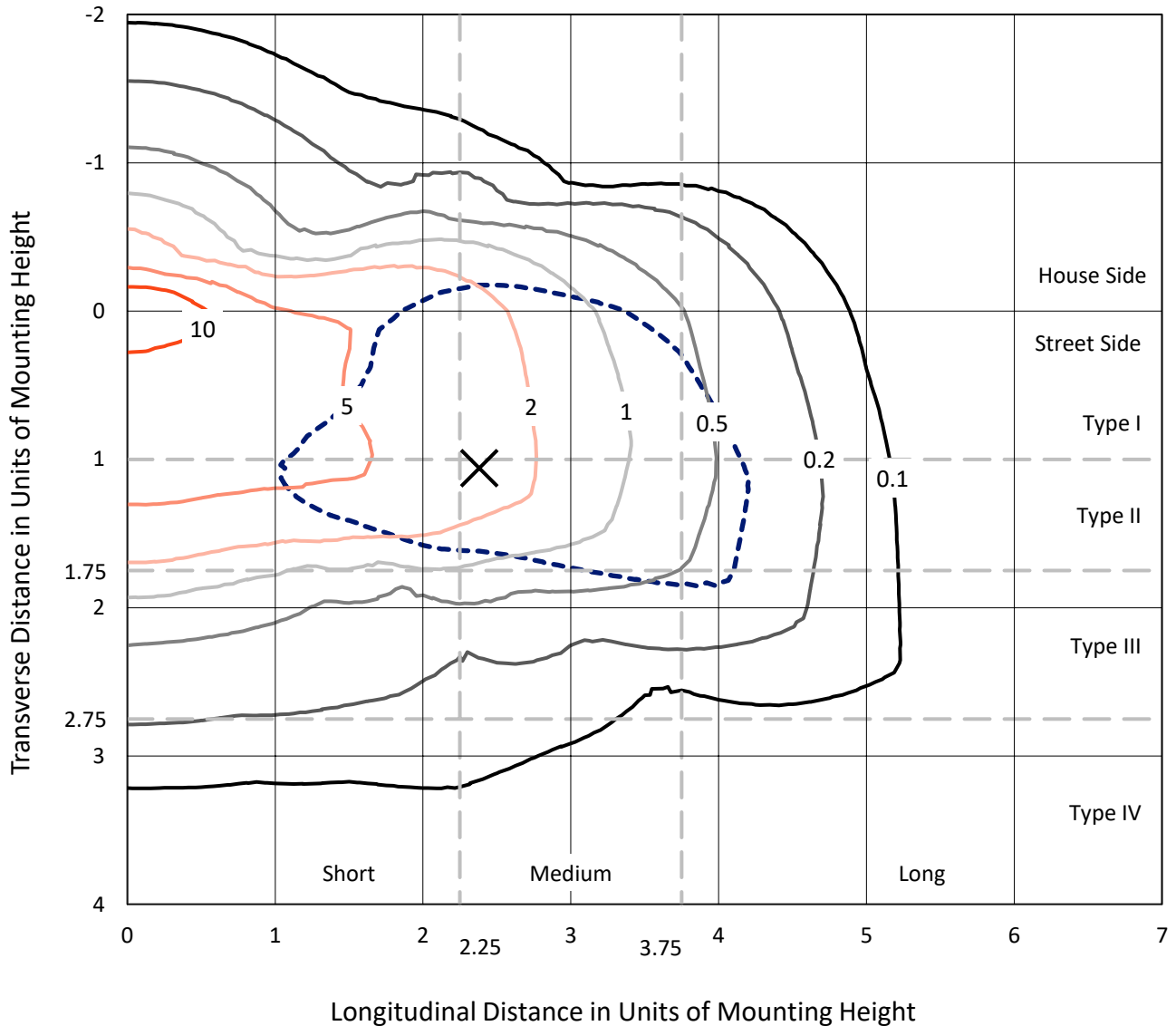
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

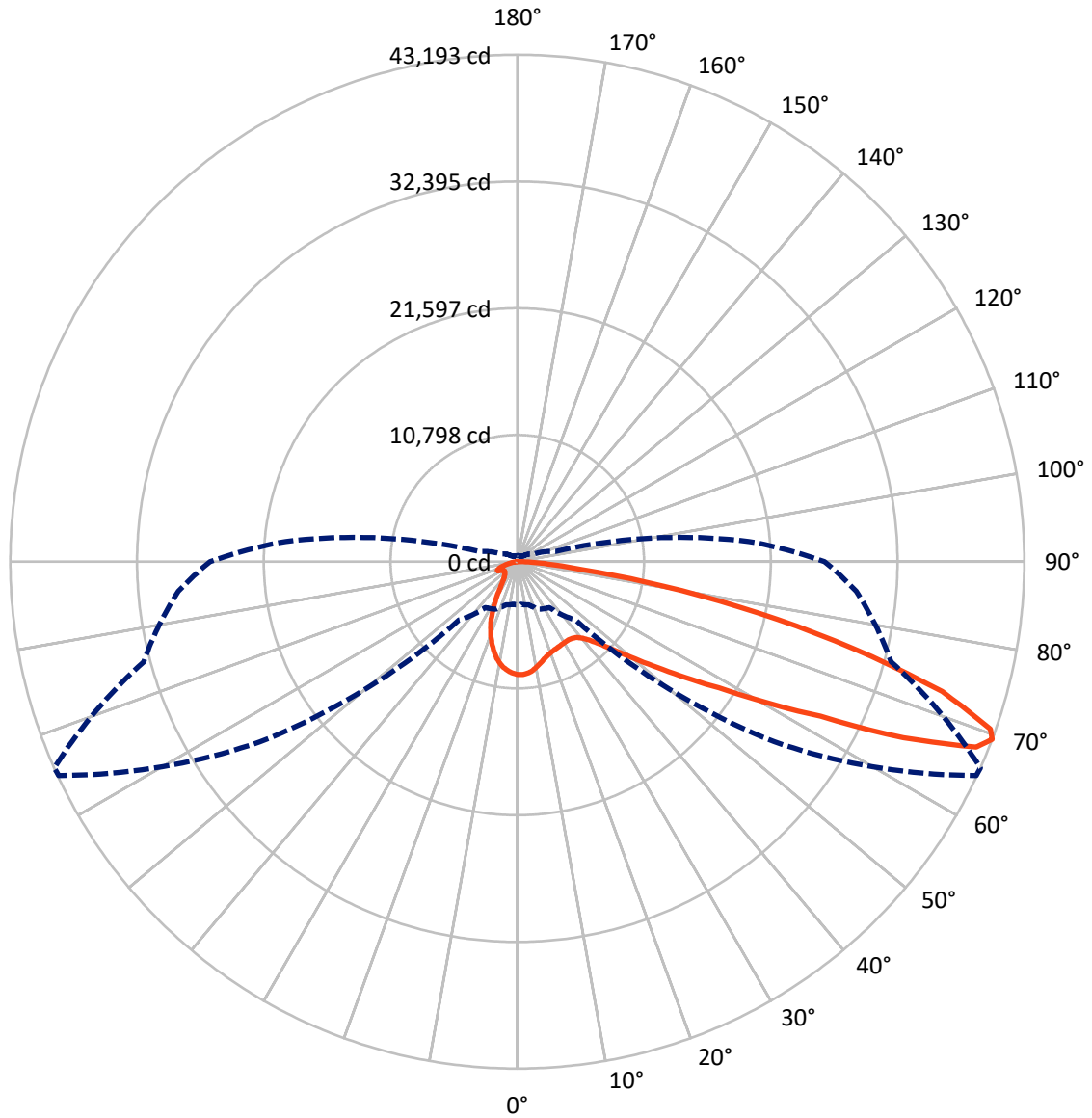
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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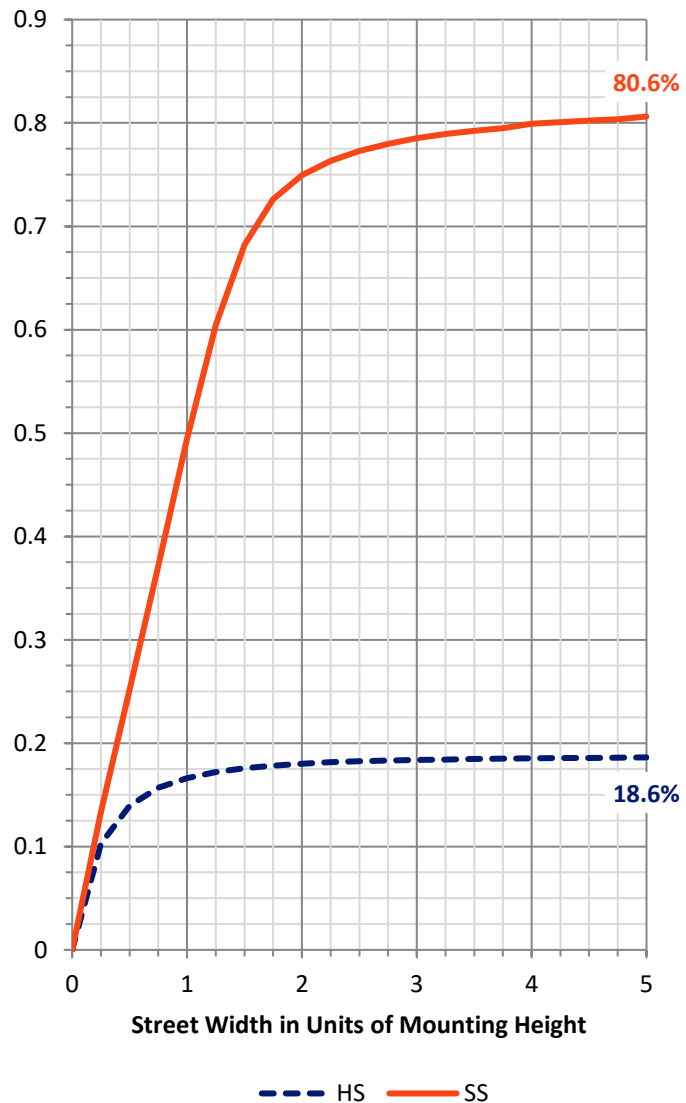
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7834.3	0.0	7834.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	33823.7	0.0	33823.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	41658.0	0.0	41658.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	835.4	2.0
10°-20°	1981.5	4.8
20°-30°	2697.5	6.5
30°-40°	3624.9	8.7
40°-50°	5412.6	13.0
50°-60°	8609.6	20.7
60°-70°	10589.3	25.4
70°-80°	6889.9	16.5
80°-90°	1017.4	2.4
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°	41658.0	100.0
0°-180°	41658.0	100.0



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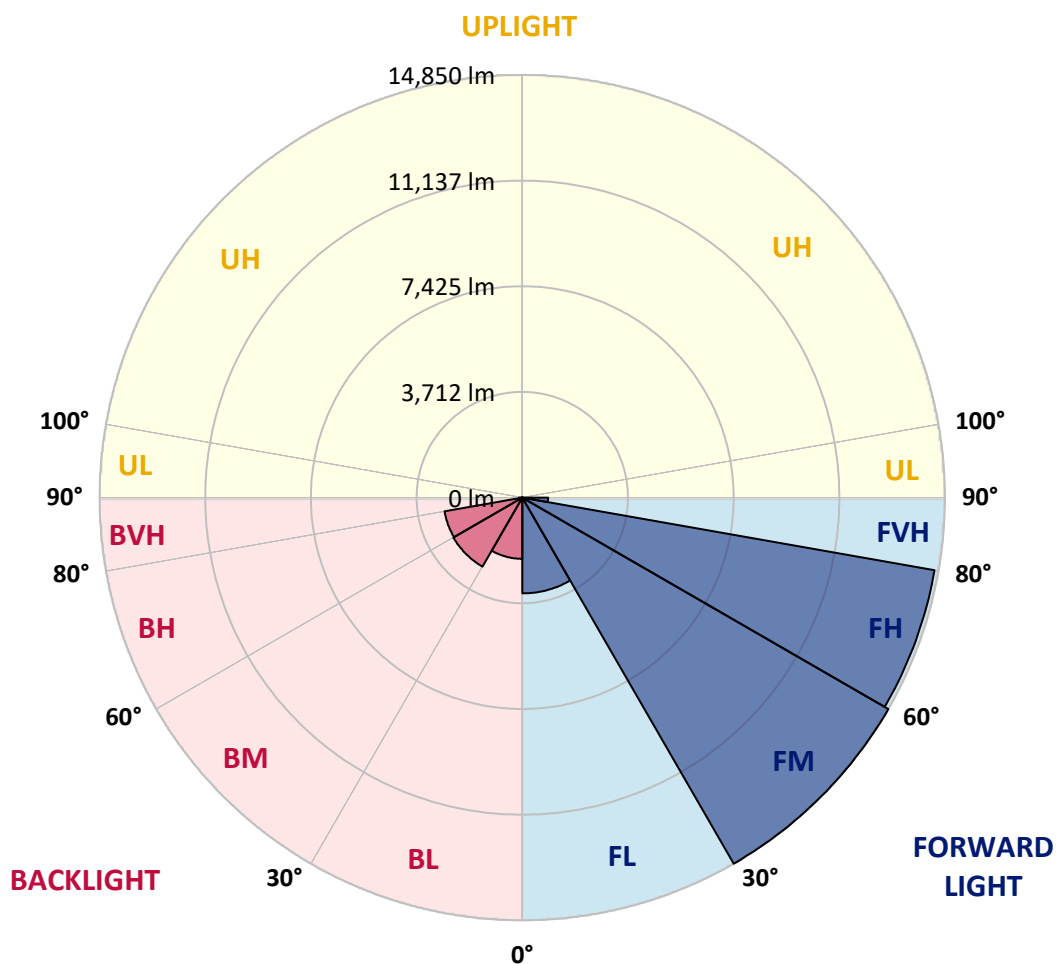
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3363.8	8.1			
FM	(30°-60°)	14849.8	35.6			
FH	(60°-80°)	14705.5	35.3			G5
FVH	(80°-90°)	904.6	2.2			G5
BL	(0°-30°)	2150.5	5.2	B3/2500		
BM	(30°-60°)	2797.2	6.7	B3/5000		
BH	(60°-80°)	2773.7	6.7	B4/5000		G4/5000
BVH	(80°-90°)	112.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0
2.5°	9283.2	9320.1	9361.6	9407.8	9495.4	9543.9	9578.5	9617.7	9622.3	9643.1	9626.9
5°	8598.0	8641.8	8704.1	8791.8	8923.3	9128.6	9340.8	9513.9	9534.6	9631.5	9659.2
7.5°	8025.9	8051.3	8102.0	8242.7	8429.6	8658.0	8967.1	9317.8	9368.5	9599.2	9680.0
10°	7559.9	7585.3	7645.2	7790.6	7975.1	8261.2	8600.3	9061.7	9103.2	9500.0	9684.6
12.5°	7211.5	7234.6	7299.2	7442.2	7654.5	7922.1	8295.8	8784.9	8844.9	9368.5	9640.8
15°	6946.2	6990.1	7043.1	7160.8	7384.6	7642.9	8005.1	8531.1	8579.6	9230.1	9610.8
17.5°	6833.2	6854.0	6890.9	6999.3	7163.1	7416.9	7781.3	8332.7	8390.4	9133.2	9603.8
20°	6837.8	6858.6	6865.5	6925.5	7043.1	7262.3	7622.2	8175.8	8245.0	9047.9	9615.4
22.5°	6994.7	6997.0	6971.6	6950.8	6997.0	7179.2	7509.1	8058.2	8138.9	9011.0	9624.6
25°	7236.9	7278.4	7241.5	7144.6	7059.3	7146.9	7465.3	7993.6	8069.7	8957.9	9613.1
27.5°	7629.1	7636.0	7606.0	7474.5	7253.1	7188.5	7446.8	7945.1	8009.7	8918.7	9555.4
30°	8155.1	8134.3	8106.6	7961.3	7612.9	7347.6	7486.1	7901.3	7968.2	8861.0	9486.2
32.5°	8688.0	8752.6	8727.2	8556.5	8104.3	7656.8	7612.9	7896.7	7952.1	8817.2	9410.1
35°	9253.2	9283.2	9403.1	9315.5	8851.8	8157.4	7850.6	7968.2	8012.0	8819.5	9357.0
37.5°	9696.1	9776.9	10058.3	10134.4	9698.4	8819.5	8235.8	8171.2	8189.7	8932.5	9377.8
40°	10231.3	10369.7	10731.9	11043.4	10757.3	9680.0	8891.0	8547.3	8570.3	9204.7	9513.9
42.5°	10909.6	11006.5	11493.2	11915.4	11869.3	10817.3	9684.6	9163.2	9174.7	9746.9	9894.5
45°	11703.2	11841.6	12388.3	13022.7	13131.2	12104.6	10831.1	10095.2	10088.3	10588.9	10605.1
47.5°	12718.2	12803.6	13345.7	14037.8	14476.1	13721.8	12222.2	11433.3	11359.4	11816.2	11684.7
50°	13652.5	13786.3	14197.0	14953.7	16044.9	15615.8	14051.6	13168.1	12995.1	13421.8	13200.4
52.5°	14044.7	14185.4	14531.5	15470.4	17389.8	18065.7	16374.7	15237.4	14949.0	15276.6	15195.9
55°	13364.2	13546.4	13869.4	15011.3	17980.4	20891.8	19507.6	17629.7	17419.8	17279.1	17302.1
57.5°	11534.8	11707.8	12143.8	13403.4	17274.5	22942.6	23980.8	20704.9	20255.0	19606.8	19717.5
60°	8780.3	8888.7	9114.8	10510.5	15182.1	23475.5	29060.7	24592.1	24306.0	21925.3	22003.7
62.5°	6235.7	6358.0	6514.8	7211.5	11114.9	21973.7	33037.9	30020.4	28998.4	24326.8	24250.7
65°	5063.8	4980.7	5169.9	5495.2	6521.8	17029.9	33933.0	37554.9	36147.6	27489.6	26433.1
67.5°	4164.0	4076.4	4263.2	4842.3	4959.9	9885.3	30707.8	42445.6	42164.2	30929.3	28650.0
69°	3686.5	3640.4	3804.2	4464.0	4761.5	7020.1	26751.4	43126.2	43193.1	32957.1	28991.5
70°	3322.0	3340.5	3499.6	4272.5	4671.6	5788.1	22864.2	42187.2	42754.7	33969.9	28622.4
72.5°	2445.4	2484.6	2706.1	3538.9	4586.2	4911.5	13606.4	36848.9	37852.5	34029.8	26183.9
75°	1709.5	1691.0	1887.1	2664.5	4332.5	4867.7	7991.3	28497.8	29635.1	29413.6	22001.4
77.5°	1118.9	1148.9	1305.7	1882.5	3645.0	4830.8	5209.1	20218.1	20956.4	19671.4	13013.5
80°	789.0	786.7	874.3	1285.0	2703.7	4641.6	4265.6	12743.6	12556.7	7730.6	3859.5
82.5°	452.2	484.5	586.0	904.3	1808.7	4085.6	3924.1	6095.0	5564.4	2203.1	1303.4
85°	251.5	263.0	348.3	546.7	1056.6	3077.5	3425.8	2773.0	2616.1	920.5	560.6
87.5°	80.7	87.7	145.3	276.8	479.8	1453.4	1940.1	1280.4	1181.2	332.2	226.1
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°	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0	9620.0
2.5°	9633.8	9661.5	9587.7	9516.2	9451.6	9361.6	9280.9	9214.0	9167.8	9160.9	9137.8
5°	9666.1	9668.4	9527.7	9338.5	9154.0	8951.0	8741.0	8591.1	8450.4	8371.9	8332.7
7.5°	9689.2	9668.4	9414.7	9107.8	8752.6	8383.5	8014.4	7719.1	7490.7	7400.7	7435.3
10°	9680.0	9615.4	9244.0	8752.6	8235.8	7684.5	7153.9	6738.6	6358.0	6161.9	6166.5
12.5°	9629.2	9523.1	8990.2	8353.5	7594.5	6856.3	6044.2	5483.6	5043.0	4782.3	4701.6
15°	9585.4	9400.8	8692.6	7811.3	6867.8	5813.5	4823.8	4131.8	3762.6	3557.3	3555.0
17.5°	9539.2	9283.2	8367.3	7236.9	6032.7	4676.2	3638.1	3109.8	2936.7	2957.5	2922.9
20°	9490.8	9144.8	8028.2	6597.9	5015.3	3488.1	2724.5	2510.0	2558.4	2653.0	2666.8
22.5°	9435.4	8997.1	7663.7	5894.3	3944.9	2625.3	2210.1	2177.8	2302.3	2450.0	2470.7
25°	9350.1	8812.6	7204.6	5158.3	3042.9	2115.5	1935.5	1958.6	2080.9	2205.4	2219.3
27.5°	9230.1	8584.2	6740.9	4240.2	2286.2	1815.6	1769.4	1799.4	1859.4	1935.5	1954.0
30°	9068.6	8325.8	6208.0	3446.6	1831.7	1665.6	1647.2	1663.3	1697.9	1730.2	1739.4
32.5°	8907.1	8076.6	5670.5	2639.2	1633.3	1566.4	1548.0	1548.0	1548.0	1552.6	1554.9
35°	8757.2	7841.3	5093.7	2055.5	1529.5	1488.0	1462.6	1434.9	1430.3	1414.2	1414.2
37.5°	8674.1	7626.8	4480.1	1721.0	1453.4	1423.4	1388.8	1342.6	1317.3	1319.6	1315.0
40°	8690.3	7486.1	3921.8	1531.8	1391.1	1358.8	1305.7	1252.7	1236.5	1236.5	1231.9
42.5°	8872.5	7439.9	3386.6	1432.6	1331.1	1294.2	1227.3	1178.9	1169.6	1167.3	1171.9
45°	9292.4	7553.0	2906.8	1368.0	1280.4	1225.0	1158.1	1114.3	1105.0	1105.0	1102.7
47.5°	10111.4	7919.8	2563.0	1326.5	1243.4	1171.9	1102.7	1058.9	1042.7	1038.1	1038.1
50°	11384.8	8715.7	2307.0	1289.6	1197.3	1123.5	1052.0	1001.2	975.8	973.5	971.2
52.5°	13154.2	9956.8	2207.8	1261.9	1146.6	1072.7	994.3	945.9	913.6	906.6	902.0
55°	15223.6	11689.3	2343.9	1241.1	1093.5	1015.1	934.3	883.6	853.6	839.7	837.4
57.5°	17620.5	13770.2	2860.6	1213.5	1045.0	952.8	874.3	823.6	791.3	775.1	770.5
60°	19772.9	15908.7	3762.6	1197.3	1003.5	885.9	805.1	759.0	729.0	712.8	710.5
62.5°	22137.5	17948.1	4840.0	1241.1	985.1	821.3	740.5	699.0	673.6	657.5	657.5
65°	24663.6	19989.7	5552.8	1388.8	1012.8	770.5	671.3	636.7	613.6	602.1	599.8
67.5°	26366.2	20695.7	4574.7	1541.0	1082.0	715.2	604.4	576.7	562.9	551.4	551.4
69°	26181.6	19802.9	3375.1	1580.3	1102.7	687.5	567.5	546.7	528.3	523.7	519.1
70°	25597.9	18785.5	2828.3	1554.9	1086.6	662.1	544.4	519.1	502.9	498.3	496.0
72.5°	22799.6	16291.7	2106.2	1351.9	925.1	574.4	482.2	459.1	445.2	438.3	438.3
75°	18942.4	13315.7	1644.9	1075.0	724.4	484.5	412.9	394.5	383.0	378.3	376.0
77.5°	10616.6	7435.3	1181.2	842.0	549.1	392.2	346.0	329.9	318.4	313.7	313.7
80°	2957.5	2124.7	694.4	556.0	373.7	297.6	274.5	263.0	246.8	235.3	242.2
82.5°	1114.3	920.5	396.8	334.5	237.6	198.4	191.5	182.2	175.3	159.2	159.2
85°	542.1	447.5	253.8	177.6	131.5	103.8	99.2	94.6	90.0	78.4	80.7
87.5°	186.9	198.4	110.7	64.6	39.2	25.4	20.8	11.5	11.5	11.5	11.5
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)