

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: P455102

Luminaire Tested: **GALN-SA6B-730-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455102  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30079 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

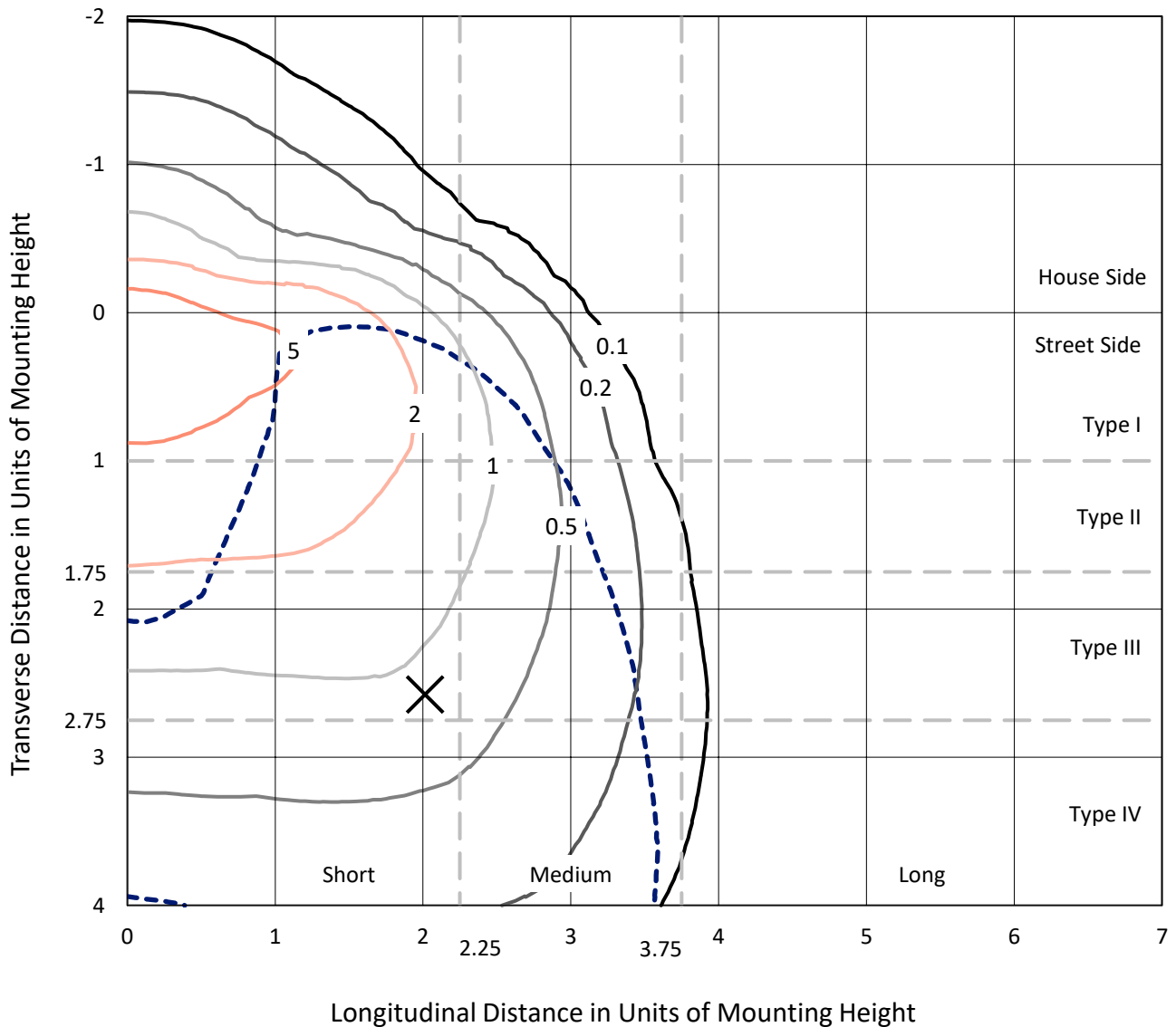
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

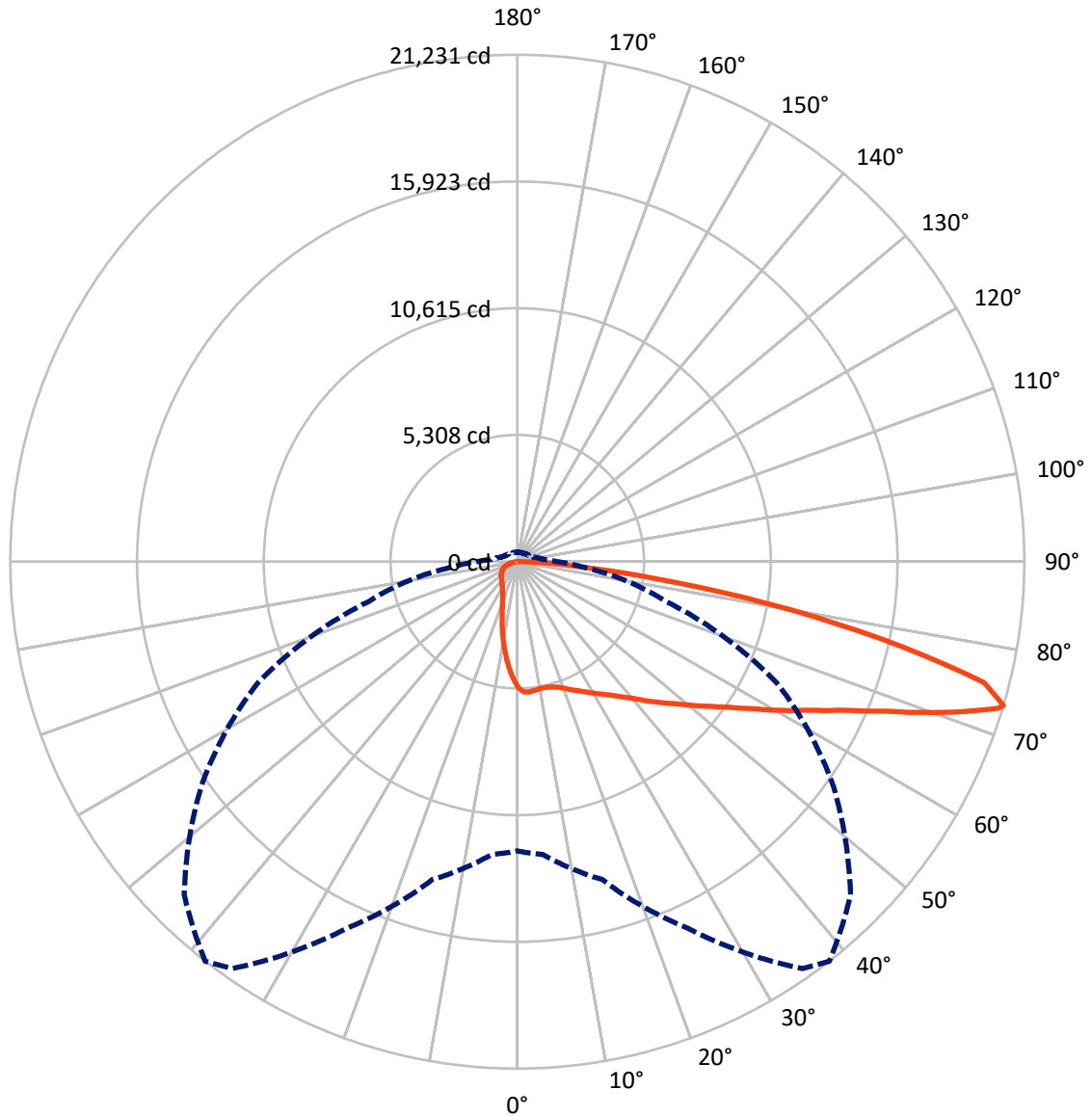
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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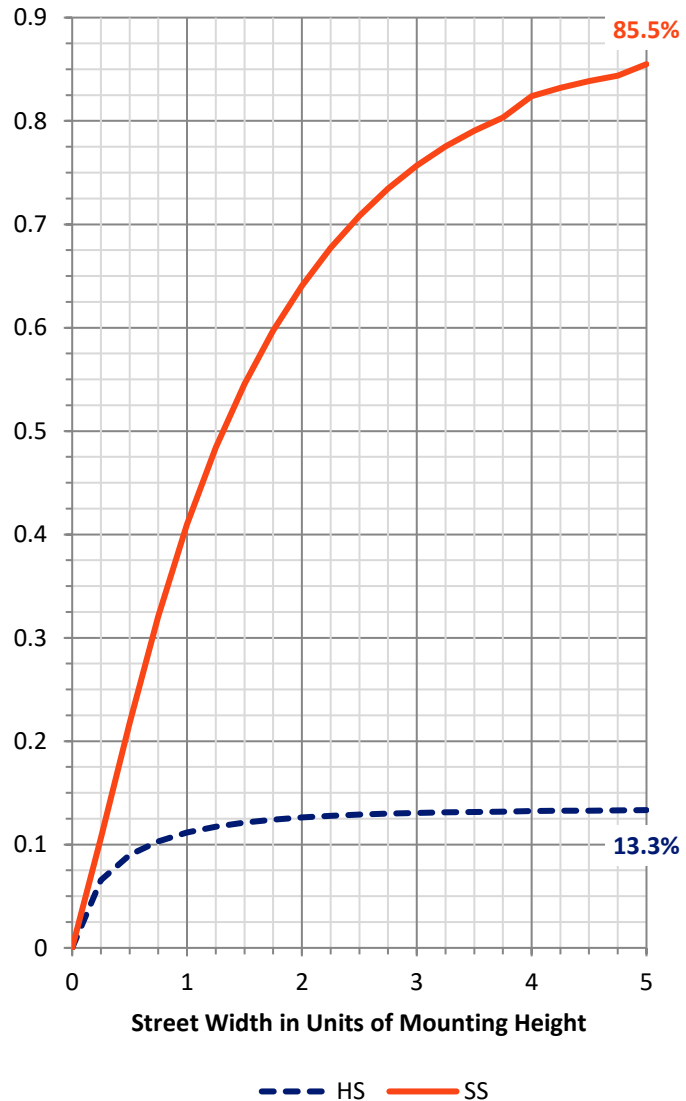
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4043.5	0.0	4043.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	26035.5	0.0	26035.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	30079.0	0.0	30079.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.3	1.5
10°-20°	1182.8	3.9
20°-30°	1841.9	6.1
30°-40°	2701.7	9.0
40°-50°	4007.6	13.3
50°-60°	5678.0	18.9
60°-70°	7202.7	23.9
70°-80°	5995.7	19.9
80°-90°	1007.4	3.3
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°	30079.0	100.0
0°-180°	30079.0	100.0

**Coefficient of Utilization**



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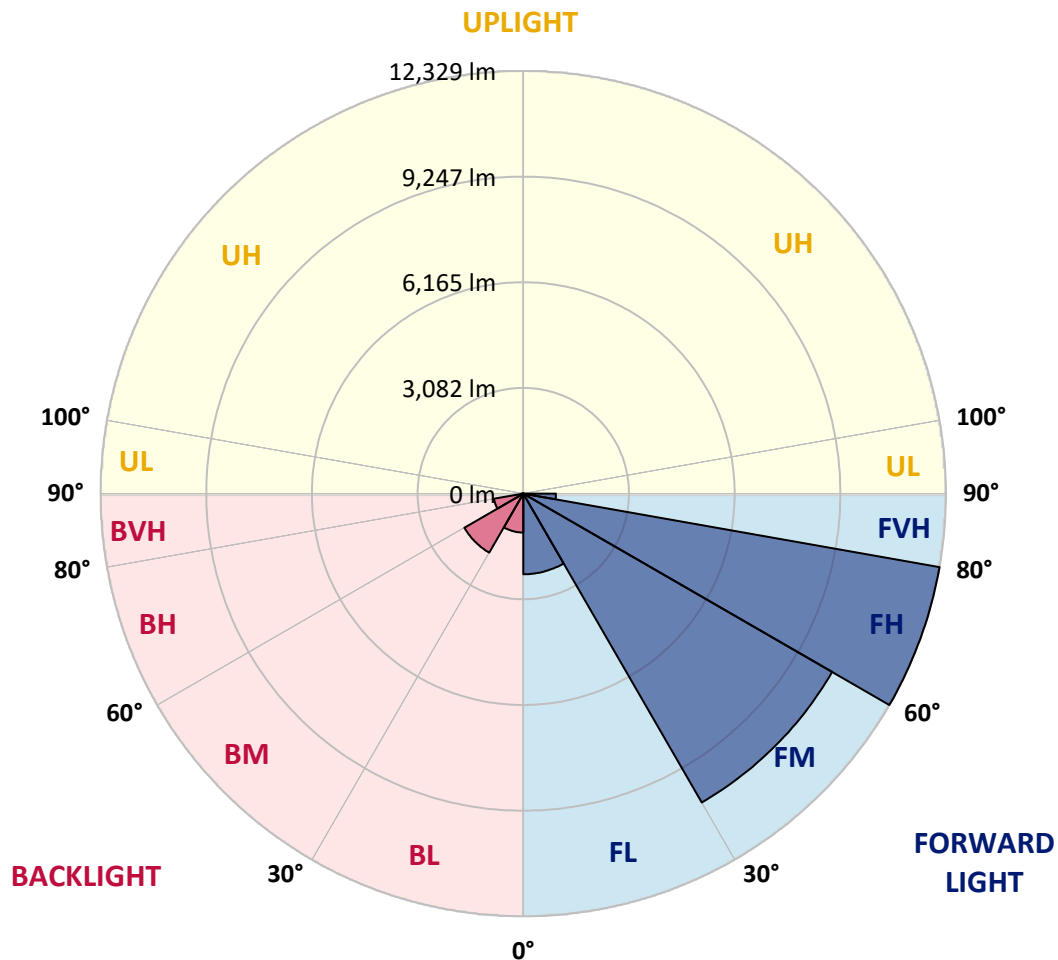
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2351.4	7.8			
FM (30°-60°)	10402.1	34.6			
FH (60°-80°)	12329.3	41.0			G5
FVH (80°-90°)	952.7	3.2			G5
BL (0°-30°)	1134.6	3.8	B3/2500		
BM (30°-60°)	1985.1	6.6	B2/2500		
BH (60°-80°)	869.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	54.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4
2.5°	5496.7	5523.9	5510.3	5491.6	5479.7	5467.8	5450.8	5401.6	5362.5	5320.0	5253.8
5°	5537.5	5554.4	5542.6	5518.8	5491.6	5479.7	5447.4	5382.9	5320.0	5248.7	5150.2
7.5°	5513.7	5520.5	5506.9	5478.0	5454.2	5432.1	5394.8	5323.4	5247.0	5160.4	5031.3
10°	5428.8	5454.2	5454.2	5430.5	5406.7	5394.8	5357.4	5289.5	5219.8	5121.3	4968.4
12.5°	5359.1	5386.3	5408.4	5401.6	5399.9	5399.9	5371.0	5320.0	5238.5	5145.1	4963.3
15°	5311.5	5343.8	5391.4	5418.6	5435.5	5440.6	5428.8	5384.6	5301.4	5192.6	4983.7
17.5°	5301.4	5340.4	5427.1	5486.5	5530.7	5529.0	5525.6	5464.4	5372.7	5260.6	5009.2
20°	5347.2	5398.2	5518.8	5612.2	5676.7	5664.9	5646.2	5566.3	5459.3	5333.6	5033.0
22.5°	5484.8	5537.5	5670.0	5771.9	5834.7	5834.7	5778.7	5673.4	5559.5	5418.6	5065.3
25°	5681.8	5739.6	5880.6	5984.2	6013.1	5991.0	5934.9	5807.5	5676.7	5540.9	5133.2
27.5°	5923.0	5992.7	6123.5	6210.1	6201.6	6184.6	6126.9	5963.8	5833.0	5709.0	5248.7
30°	6223.7	6274.7	6410.5	6430.9	6400.4	6397.0	6315.4	6152.4	6030.1	5934.9	5413.5
32.5°	6507.4	6553.2	6661.9	6670.4	6616.1	6622.9	6546.4	6397.0	6327.3	6293.3	5690.3
35°	6808.0	6831.8	6925.2	6915.0	6879.4	6874.3	6843.7	6701.0	6723.1	6784.2	6082.7
37.5°	7059.4	7107.0	7159.6	7168.1	7166.4	7183.4	7203.8	7135.9	7263.2	7455.2	6597.4
40°	7290.4	7331.2	7409.3	7436.5	7502.8	7536.7	7606.4	7608.1	7901.9	8217.9	7231.0
42.5°	7446.7	7516.3	7662.4	7711.7	7873.0	7975.0	8078.6	8189.0	8615.3	9021.3	7978.4
45°	7582.6	7674.3	7917.2	8070.1	8289.2	8413.2	8632.3	8863.3	9476.5	10008.2	8737.6
47.5°	7788.1	7869.7	8148.2	8418.3	8749.5	8892.2	9220.0	9564.9	10366.6	10949.2	9464.6
50°	8073.5	8122.7	8406.4	8846.4	9269.3	9452.8	9885.9	10383.6	11317.8	11878.4	10103.3
52.5°	8438.7	8459.1	8685.0	9271.0	9828.1	10055.8	10629.9	11210.8	12150.1	12685.2	10609.5
55°	8870.1	8836.2	9012.8	9721.1	10466.8	10764.1	11380.7	12048.2	13086.1	13337.5	10978.1
57.5°	9296.5	9243.8	9384.8	10268.1	11255.0	11613.4	12331.9	12911.1	13921.8	13947.3	11236.3
60°	9748.3	9709.2	9877.4	10910.2	12221.5	12646.1	13310.3	13806.3	14730.3	14371.9	11277.1
62.5°	10212.0	10149.2	10388.7	11632.1	13310.3	13695.9	14339.7	14757.5	15523.6	14529.9	10884.7
65°	10662.2	10633.3	11003.6	12489.9	14550.3	14988.5	15613.6	15897.3	16158.9	14292.1	9911.4
67.5°	11141.2	11198.9	11790.0	13634.7	16167.4	16717.7	17392.1	17125.4	16340.6	13165.9	8347.0
70°	11871.6	11908.9	12822.8	15134.6	18251.5	18915.7	19241.8	17561.9	15464.1	11027.4	6274.7
72.5°	12185.8	12350.6	13745.1	16709.2	20619.4	21025.4	19863.5	16588.6	12882.2	7490.9	3297.0
73°	12116.2	12313.2	13787.6	16948.7	20804.6	21230.9	19731.0	16087.5	11975.2	6451.3	2826.5
75°	11248.2	11491.1	13235.6	16748.3	20444.4	20189.7	17601.0	13711.2	8092.2	2933.5	1287.5
77.5°	8875.2	8944.9	10487.2	13524.3	16099.4	15627.2	13172.7	8569.5	3305.5	1090.5	730.4
80°	4452.1	4708.5	5911.2	7747.4	10765.8	10611.2	8314.7	4052.9	1377.6	640.4	484.1
82.5°	2141.9	2323.7	2879.1	3777.7	5948.5	5807.5	4117.4	2215.0	874.8	373.7	285.4
85°	1379.3	1515.2	1832.8	1802.2	2446.0	2335.6	1849.8	1676.5	518.1	195.3	198.7
87.5°	910.5	997.1	1195.8	956.3	890.1	805.1	817.0	944.4	101.9	74.7	27.2
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°	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4	5284.4
2.5°	5226.6	5204.5	5131.5	5060.2	4992.2	4927.7	4885.2	4829.1	4791.8	4802.0	4817.3
5°	5095.8	5046.6	4917.5	4791.8	4672.9	4531.9	4418.1	4326.4	4256.7	4231.2	4226.1
7.5°	4958.2	4875.0	4689.9	4474.1	4272.0	4097.0	3894.9	3794.7	3677.5	3636.7	3623.1
10°	4875.0	4762.9	4503.0	4202.4	3898.3	3607.8	3388.7	3210.4	3049.0	3018.4	3003.1
12.5°	4851.2	4703.4	4353.5	3966.3	3562.0	3205.3	2880.8	2646.4	2490.2	2454.5	2401.8
15°	4837.6	4654.2	4214.2	3728.4	3215.5	2780.6	2439.2	2165.7	2023.0	1927.9	1929.6
17.5°	4825.7	4598.1	4058.0	3468.6	2916.5	2415.4	2038.3	1792.0	1661.2	1610.3	1605.2
20°	4808.8	4531.9	3877.9	3195.1	2575.1	2082.5	1741.1	1557.6	1469.3	1426.8	1425.1
22.5°	4802.0	4467.3	3701.3	2916.5	2272.7	1826.0	1544.0	1414.9	1358.9	1330.0	1330.0
25°	4819.0	4421.5	3516.1	2651.5	2004.4	1606.9	1408.1	1319.8	1287.5	1272.3	1267.2
27.5°	4871.6	4401.1	3332.7	2386.5	1758.1	1457.4	1316.4	1255.3	1231.5	1219.6	1221.3
30°	4971.8	4399.4	3152.6	2125.0	1574.6	1343.6	1243.4	1200.9	1182.2	1175.4	1173.7
32.5°	5133.2	4436.8	2976.0	1909.2	1420.0	1248.5	1175.4	1144.9	1136.4	1131.3	1129.6
35°	5406.7	4542.1	2801.0	1712.2	1301.1	1163.5	1110.9	1095.6	1083.7	1088.8	1090.5
37.5°	5775.3	4723.8	2634.5	1557.6	1211.1	1100.7	1056.5	1042.9	1036.2	1041.2	1046.3
40°	6269.6	4985.4	2495.3	1433.6	1146.6	1048.0	1009.0	997.1	990.3	998.8	1000.5
42.5°	6814.8	5287.8	2379.8	1336.8	1093.9	1003.9	966.5	952.9	947.8	952.9	954.6
45°	7375.4	5639.4	2320.3	1267.2	1049.7	971.6	932.5	917.2	905.4	902.0	907.1
47.5°	7927.4	5945.1	2318.6	1224.7	1014.1	942.7	900.3	883.3	868.0	859.5	857.8
50°	8377.5	6188.0	2359.4	1206.0	983.5	910.5	868.0	851.0	830.6	813.6	817.0
52.5°	8717.3	6346.0	2378.1	1197.5	966.5	876.5	834.0	818.7	794.9	772.9	772.9
55°	8936.4	6383.4	2332.2	1189.0	952.9	840.8	794.9	781.4	757.6	735.5	735.5
57.5°	9011.1	6267.9	2167.4	1168.6	939.3	810.2	755.9	744.0	725.3	703.2	699.8
60°	8837.9	5877.2	1878.7	1107.5	912.2	778.0	713.4	708.3	701.5	682.8	681.1
62.5°	8170.3	5048.3	1564.4	1027.7	866.3	744.0	674.3	682.8	687.9	677.7	676.0
65°	7059.4	4098.7	1336.8	917.2	805.1	696.4	631.9	654.0	667.6	667.6	664.2
67.5°	5726.0	3147.5	1126.2	822.1	728.7	631.9	584.3	601.3	611.5	608.1	616.6
70°	4069.9	2131.8	917.2	713.4	631.9	558.8	523.2	523.2	516.4	513.0	513.0
72.5°	1973.8	1217.9	744.0	596.2	538.5	477.3	448.4	436.5	423.0	421.3	412.8
73°	1649.3	1092.2	710.0	574.1	516.4	465.4	433.1	414.5	406.0	399.2	397.5
75°	1003.9	828.9	592.8	484.1	439.9	400.9	372.0	355.0	346.5	341.4	339.7
77.5°	660.8	618.3	460.3	370.3	336.3	312.5	300.7	283.7	278.6	271.8	271.8
80°	492.6	472.2	329.5	261.6	241.2	220.8	217.4	214.0	200.4	191.9	188.5
82.5°	317.6	336.3	224.2	175.0	152.9	135.9	137.6	142.7	129.1	117.2	113.8
85°	225.9	242.9	135.9	79.8	64.5	56.1	62.8	56.1	57.8	45.9	37.4
87.5°	37.4	64.5	23.8	10.2	5.1	3.4	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)