

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: P647625

Luminaire Tested: **GALN-SA8D-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49191.2 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

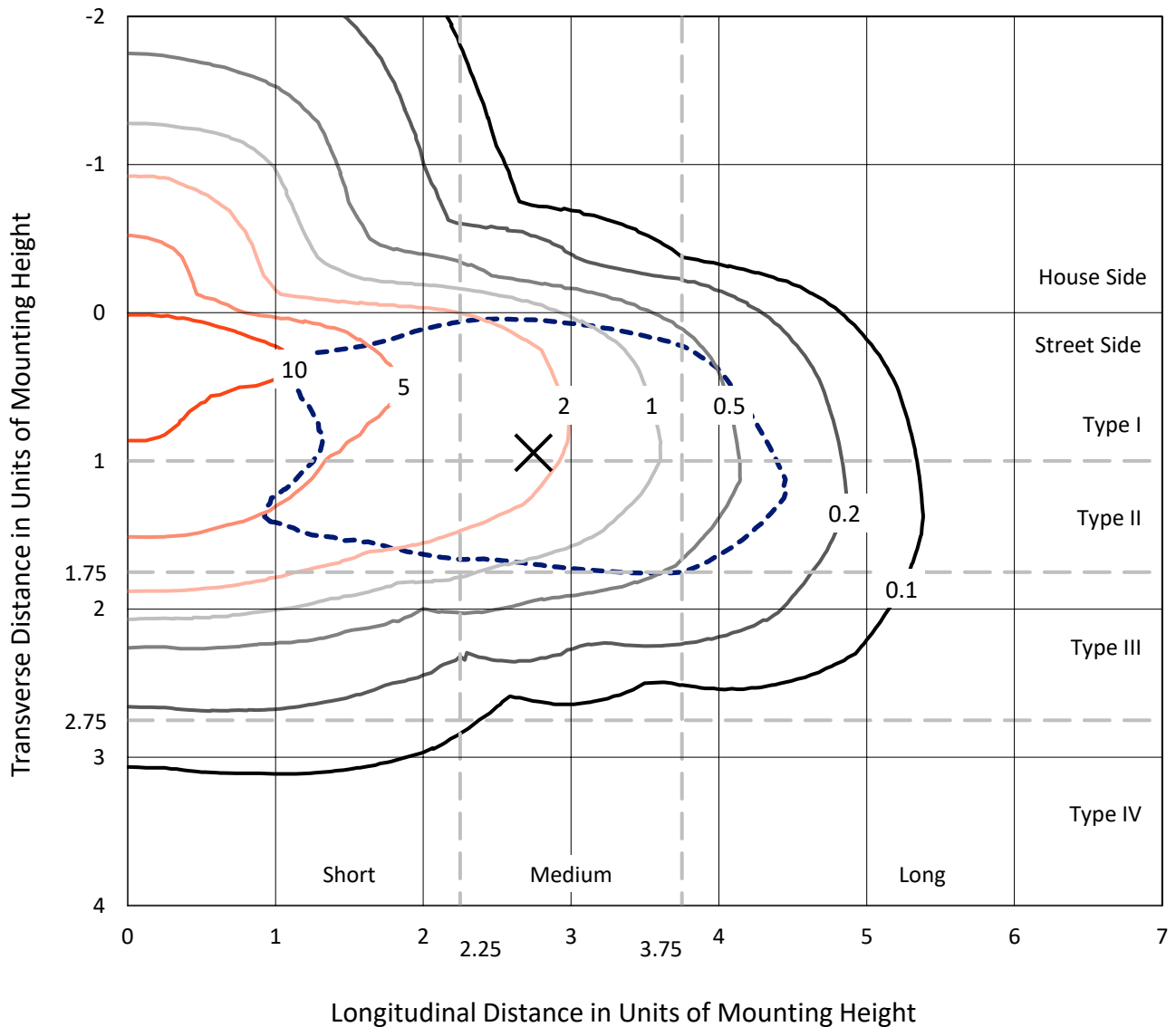
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

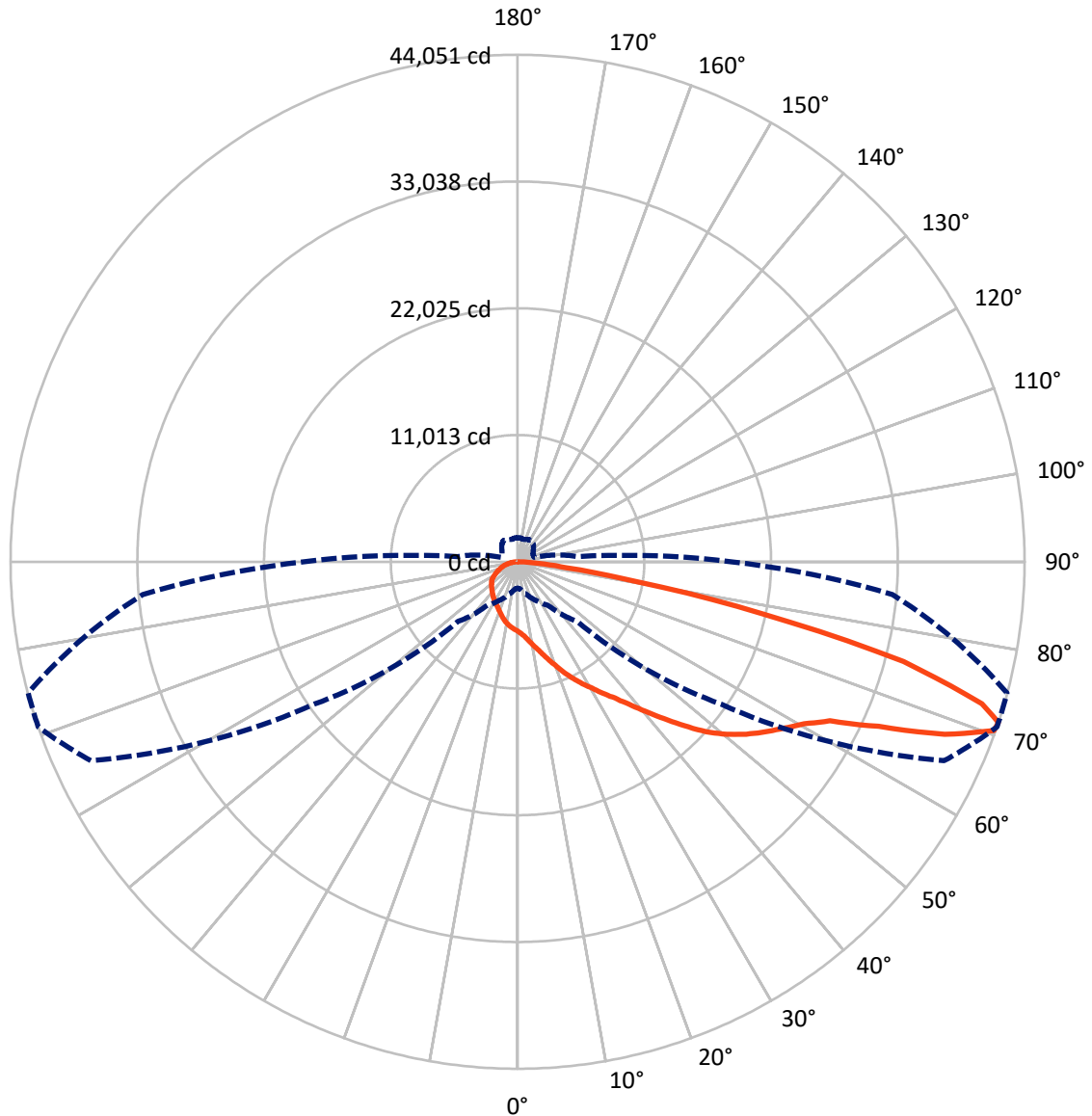
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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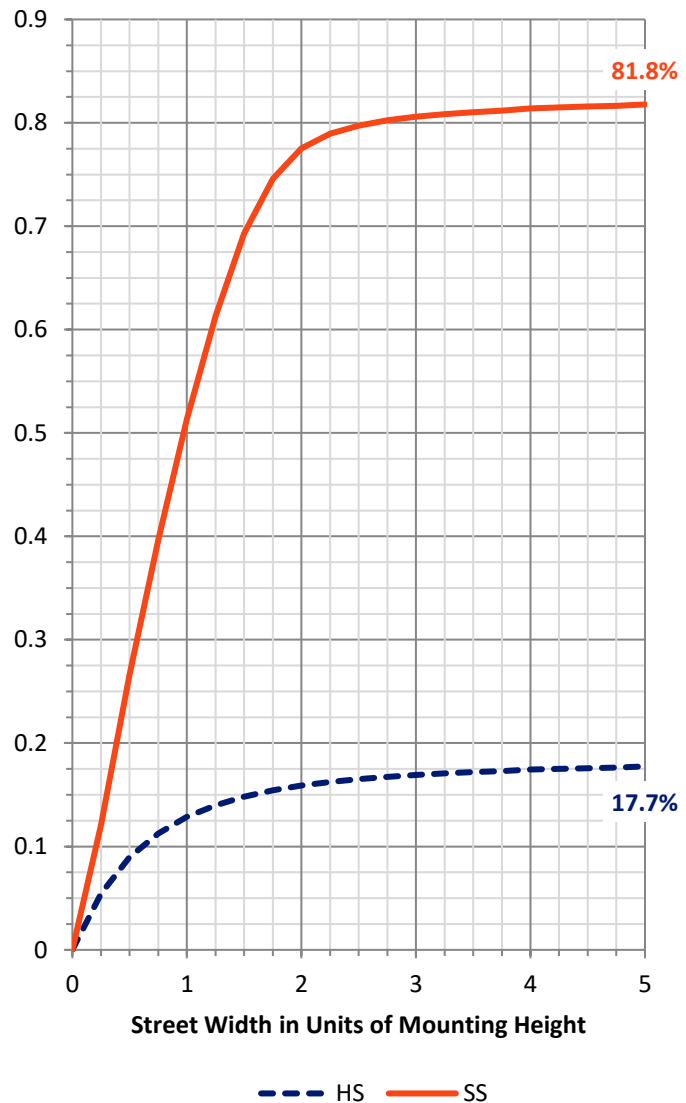
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8846.9	0.0	8846.9
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	40344.3	0.0	40344.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	49191.2	0.0	49191.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.2	1.2
10°-20°	1969.4	4.0
20°-30°	3441.7	7.0
30°-40°	5119.2	10.4
40°-50°	7542.4	15.3
50°-60°	10559.5	21.5
60°-70°	11810.4	24.0
70°-80°	7214.3	14.7
80°-90°	928.0	1.9
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°	49191.2	100.0
0°-180°	49191.2	100.0

**Coefficient of Utilization**



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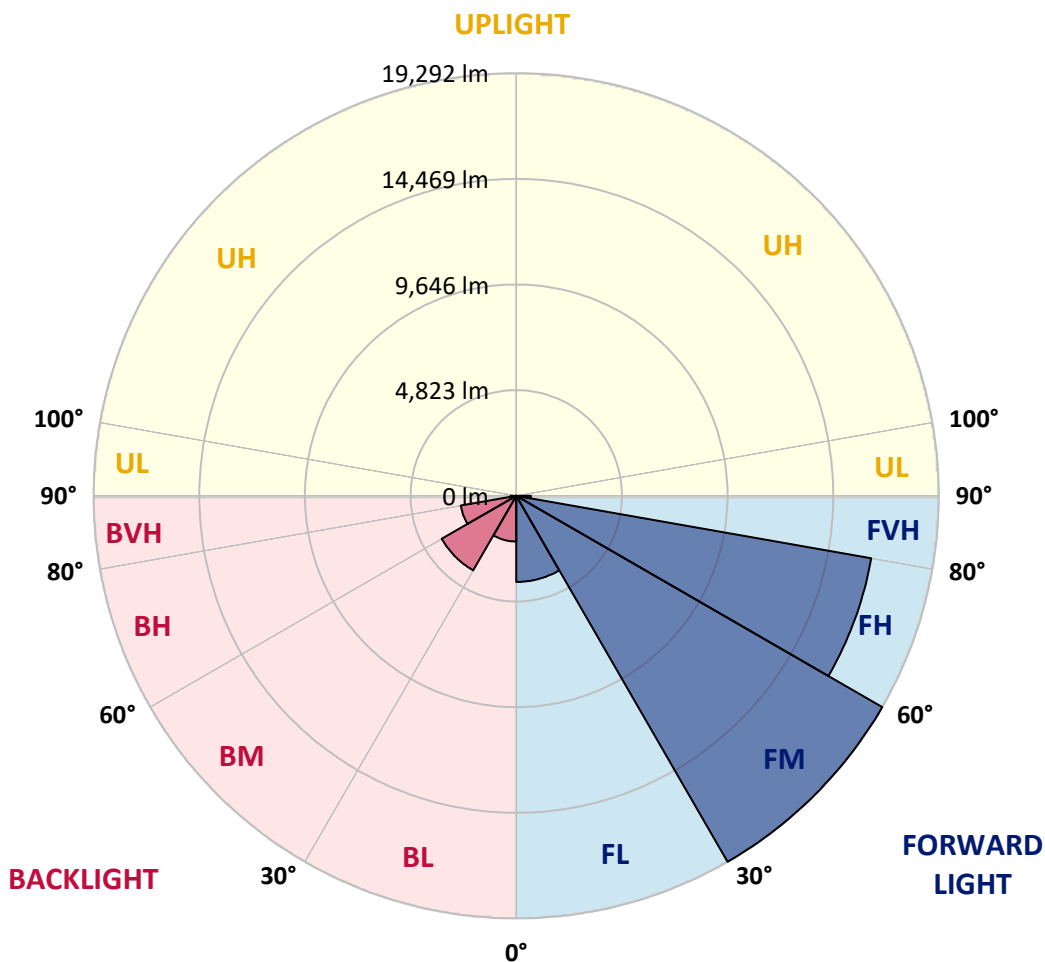
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3930.4	8.0			
FM (30°-60°)	19291.8	39.2			
FH (60°-80°)	16454.3	33.4			G5
FVH (80°-90°)	667.8	1.4			G4/750
BL (0°-30°)	2087.0	4.2	B3/2500		
BM (30°-60°)	3929.3	8.0	B3/5000		
BH (60°-80°)	2570.4	5.2	B4/5000		G4/5000
BVH (80°-90°)	260.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2
2.5°	6702.3	6669.9	6672.6	6626.6	6567.2	6502.3	6410.3	6329.2	6264.4	6226.5	6115.6
5°	7426.9	7394.5	7353.9	7253.9	7210.6	7051.1	6848.4	6664.5	6523.9	6445.5	6223.8
7.5°	8013.6	8005.5	7994.7	7937.9	7827.1	7605.4	7432.3	7113.3	6905.1	6756.4	6377.9
10°	8375.9	8389.5	8397.5	8408.3	8362.4	8246.2	8008.2	7605.4	7340.4	7151.1	6578.0
12.5°	8559.8	8573.3	8619.3	8719.3	8781.4	8768.0	8573.3	8178.5	7813.6	7564.8	6791.6
15°	8673.3	8694.9	8776.0	8908.5	9116.7	9249.2	9154.5	8789.6	8389.5	8094.7	7045.7
17.5°	8797.7	8822.0	8911.2	9100.5	9373.5	9660.1	9762.9	9449.2	9014.0	8662.5	7329.6
20°	8867.9	8900.4	9027.5	9276.2	9595.3	10011.6	10352.3	10187.4	9711.5	9322.2	7656.7
22.5°	8981.6	9008.6	9116.7	9381.7	9762.9	10284.7	10941.6	10906.5	10487.4	9984.6	8016.4
25°	9289.7	9333.0	9387.1	9546.6	9914.3	10563.1	11431.0	11674.4	11239.1	10676.7	8346.2
27.5°	9871.0	9906.2	9903.5	9925.1	10133.3	10803.8	11855.5	12434.1	11985.3	11377.0	8665.2
30°	10533.4	10546.9	10557.7	10509.1	10555.1	11049.9	12244.8	13185.7	12736.9	12096.1	8943.7
32.5°	11339.1	11366.1	11274.2	11149.8	11112.0	11414.8	12566.5	13937.3	13626.4	12826.1	9219.4
35°	12290.8	12361.1	12174.6	11955.5	11801.5	11939.3	12999.1	14705.1	14537.5	13758.9	9584.5
37.5°	13377.6	13464.2	13291.1	12861.2	12642.2	12680.1	13564.2	15654.1	15689.3	14821.4	10127.9
40°	14267.1	14380.7	14386.1	13777.8	13445.3	13488.5	14280.7	16676.1	17079.0	16135.4	10768.6
42.5°	14853.8	14964.7	15081.0	14724.1	14375.3	14621.4	15116.1	17784.6	18641.7	17730.6	11663.6
45°	15497.3	15597.4	15662.3	15500.0	15305.4	15943.4	16124.6	18963.4	20307.1	19512.2	12642.2
47.5°	16243.5	16354.4	16416.5	16262.4	16189.5	17103.3	17211.4	20063.7	22086.1	21242.6	13723.7
50°	17238.4	17322.3	17289.8	17192.5	17176.3	17992.8	18255.0	21093.9	23554.2	23105.4	14845.8
52.5°	18476.8	18576.8	18611.9	18474.0	18411.9	18628.1	19095.9	22032.1	24889.8	24705.9	16043.4
55°	19225.6	19385.2	19920.5	20136.8	20285.5	19450.0	20001.6	23067.6	26087.5	26393.1	17330.4
57.5°	18265.8	18471.4	19669.0	20750.5	22148.3	21504.9	21285.9	24149.0	27285.2	28028.7	18871.5
60°	15924.5	15970.5	17514.2	19506.8	22318.6	24146.3	23965.1	25868.5	28582.9	29678.0	20902.0
62.5°	11047.1	11144.4	12969.4	16148.9	20215.2	25098.0	28523.5	28837.1	30443.1	32146.4	23878.6
65°	5696.6	5569.5	7232.3	10149.5	15240.5	22837.8	32216.7	34295.8	34476.9	36007.2	28069.3
67.5°	3506.7	3563.4	4342.0	5926.4	9011.2	16597.7	31830.0	40965.7	40011.3	40746.7	31959.9
70°	2633.4	2703.6	3239.0	4055.5	5493.8	9489.8	25598.1	42582.4	43915.3	43726.1	33144.0
71°	2290.0	2363.0	2920.0	3690.5	4615.2	7324.2	21567.0	40890.0	44050.6	44018.1	32697.9
72.5°	1952.0	1998.0	2433.3	3125.4	3890.6	5134.2	16202.9	36672.3	42171.5	43250.3	31105.5
75°	1533.0	1568.1	1762.8	2384.6	3063.3	3152.4	8694.9	27493.4	34636.5	36691.2	25895.5
77.5°	1249.1	1273.4	1373.5	1770.9	2363.0	2233.2	4561.1	17895.5	21699.5	23767.8	15254.0
80°	992.2	1019.3	1078.7	1200.4	1770.9	1592.5	2176.4	9068.0	10482.0	10460.4	6088.6
82.5°	770.6	778.6	848.9	881.4	1211.2	1130.1	1178.8	3839.2	4252.9	4393.4	2198.0
85°	486.6	511.0	751.6	675.9	724.6	662.4	581.3	1524.9	1879.0	1852.0	878.7
87.5°	148.7	156.8	254.2	286.6	321.7	289.3	213.6	448.8	548.8	594.8	219.0
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°	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2	6037.2
2.5°	6072.4	6042.6	5937.2	5850.7	5769.6	5680.4	5604.6	5583.0	5564.1	5556.0	5553.3
5°	6129.2	6040.0	5831.8	5661.4	5526.3	5401.9	5323.5	5288.3	5253.2	5253.2	5264.0
7.5°	6210.3	6048.0	5726.3	5472.2	5301.8	5185.6	5128.8	5123.4	5131.5	5139.6	5142.4
10°	6299.5	6042.6	5572.2	5255.9	5104.5	5050.4	5053.1	5099.1	5142.4	5174.8	5180.2
12.5°	6386.0	6010.2	5391.1	5053.1	4955.8	4966.6	5042.3	5145.0	5228.9	5274.8	5277.5
15°	6483.3	5958.9	5172.1	4861.2	4828.7	4912.5	5053.1	5209.9	5337.0	5412.7	5420.8
17.5°	6564.4	5872.3	4942.3	4674.6	4715.1	4869.2	5063.9	5266.7	5420.8	5515.5	5531.7
20°	6656.4	5761.5	4704.3	4496.1	4612.4	4820.6	5042.3	5261.3	5420.8	5512.7	5534.4
22.5°	6729.4	5604.6	4477.3	4350.2	4520.5	4761.1	4969.3	5145.0	5274.8	5323.5	5356.0
25°	6759.1	5407.3	4263.7	4231.2	4447.5	4663.8	4804.4	4904.4	4945.0	4939.6	4953.1
27.5°	6742.9	5180.2	4079.8	4136.6	4355.6	4512.4	4582.7	4574.6	4501.5	4434.0	4466.5
30°	6675.3	4909.8	3925.7	4039.3	4236.7	4323.1	4312.3	4206.9	4069.0	3941.9	3950.0
32.5°	6553.6	4617.8	3782.4	3928.4	4069.0	4106.8	4033.9	3896.0	3698.6	3533.7	3509.3
35°	6450.9	4339.4	3655.4	3801.3	3901.4	3882.4	3812.1	3633.7	3455.3	3309.3	3284.9
37.5°	6434.7	4101.4	3533.7	3658.0	3714.8	3687.8	3601.3	3449.8	3385.0	3274.1	3260.6
40°	6521.2	3933.8	3409.3	3506.7	3533.7	3512.1	3417.4	3330.9	3390.4	3363.4	3363.4
42.5°	6756.4	3844.6	3298.5	3355.2	3376.8	3393.1	3325.5	3252.5	3325.5	3201.1	3160.6
45°	7129.5	3847.3	3198.4	3206.5	3271.5	3328.2	3282.3	3174.0	3136.2	2887.5	2838.8
47.5°	7678.3	3939.2	3117.3	3065.9	3182.2	3276.9	3211.9	3055.1	2887.5	2722.6	2692.8
50°	8319.1	4104.2	3044.3	2920.0	3063.3	3211.9	3163.2	2979.4	2806.4	2706.4	2687.4
52.5°	9030.2	4312.3	2955.1	2757.7	2917.2	3182.2	3174.0	2968.6	2730.7	2663.1	2646.9
55°	9908.9	4517.8	2844.2	2568.5	2787.5	3157.8	3144.4	2879.4	2714.4	2665.8	2660.4
57.5°	10930.8	4815.2	2684.8	2376.5	2638.8	3057.8	3028.1	2825.3	2660.4	2625.2	2622.5
60°	12577.4	5277.5	2457.6	2200.8	2487.4	2882.1	2920.0	2733.4	2573.9	2565.7	2563.1
62.5°	14743.0	5926.4	2222.4	2019.6	2311.7	2655.0	2763.1	2609.0	2482.0	2522.5	2527.9
65°	17733.2	6472.5	1979.0	1865.5	2116.9	2436.0	2614.4	2492.8	2379.2	2457.6	2457.6
67.5°	19682.6	6483.3	1757.4	1706.0	1919.6	2252.1	2457.6	2354.9	2246.7	2379.2	2384.6
70°	19277.0	5680.4	1573.5	1538.4	1727.6	2054.7	2284.6	2203.4	2079.1	2198.0	2154.8
71°	18622.7	5234.3	1500.5	1473.5	1651.9	1960.2	2203.4	2135.9	2011.5	2089.9	2065.6
72.5°	17579.1	4544.8	1381.6	1387.0	1538.4	1841.1	2089.9	2019.6	1895.3	1938.6	1930.4
75°	14859.2	3968.9	1181.5	1205.8	1322.1	1638.4	1862.8	1808.7	1681.6	1681.6	1673.6
77.5°	9289.7	2773.9	981.4	995.0	1122.0	1403.2	1600.5	1554.6	1433.0	1392.4	1381.6
80°	3466.1	1433.0	767.8	784.1	862.5	1105.8	1324.8	1281.5	1157.2	1111.2	1067.9
82.5°	1311.3	719.2	565.1	551.5	635.3	843.5	1038.2	986.8	889.5	778.6	746.2
85°	494.8	356.9	346.1	335.3	373.1	500.2	643.5	632.7	529.9	451.5	443.4
87.5°	129.7	116.3	135.1	100.1	105.5	94.7	97.3	40.6	18.9	8.1	5.4
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)