

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: P459430

Luminaire Tested: **GALN-SA8D-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459430  
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-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 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: 58523 lumens  
Efficiency: N/A  
Efficacy: 118.7 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

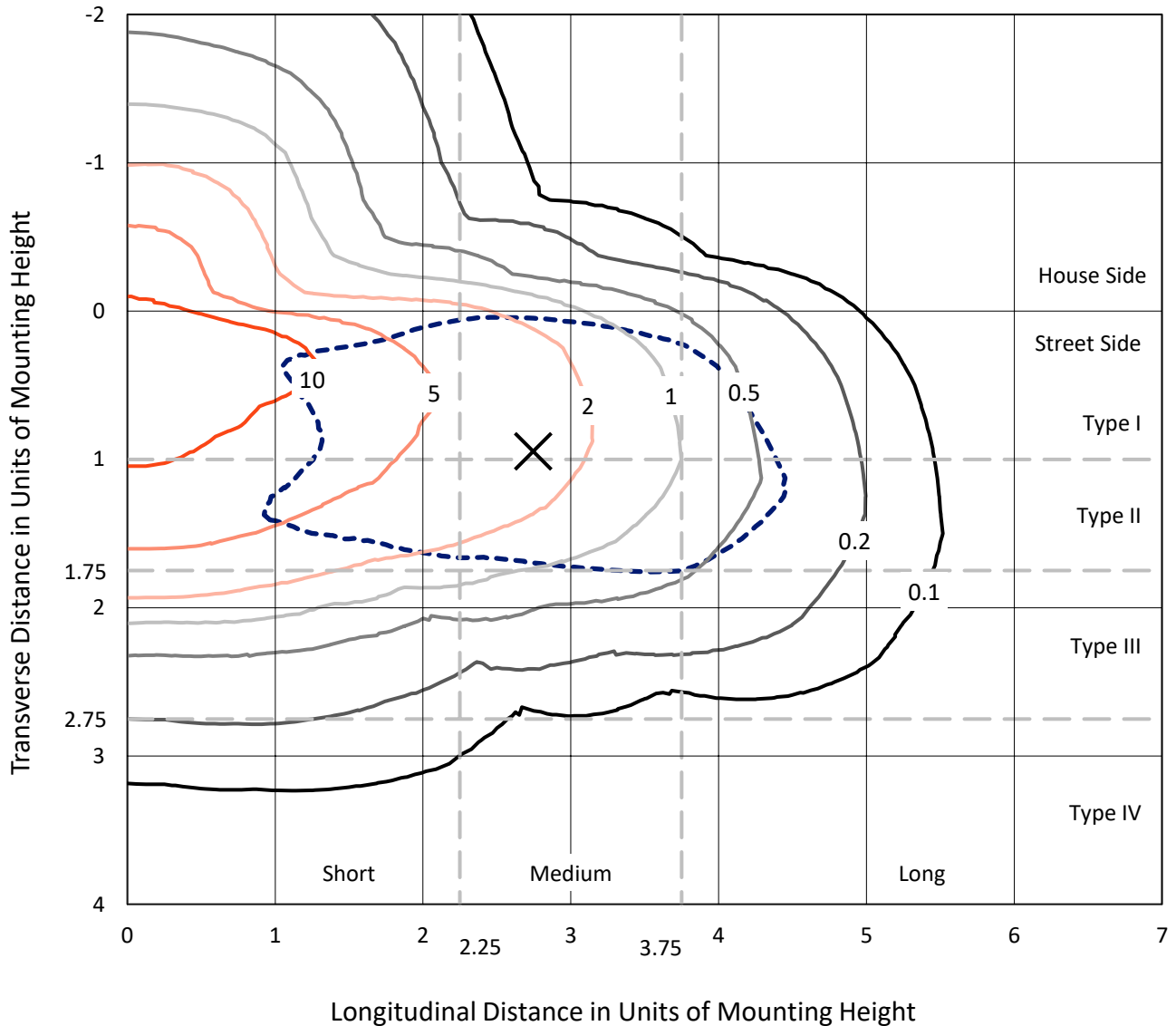
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

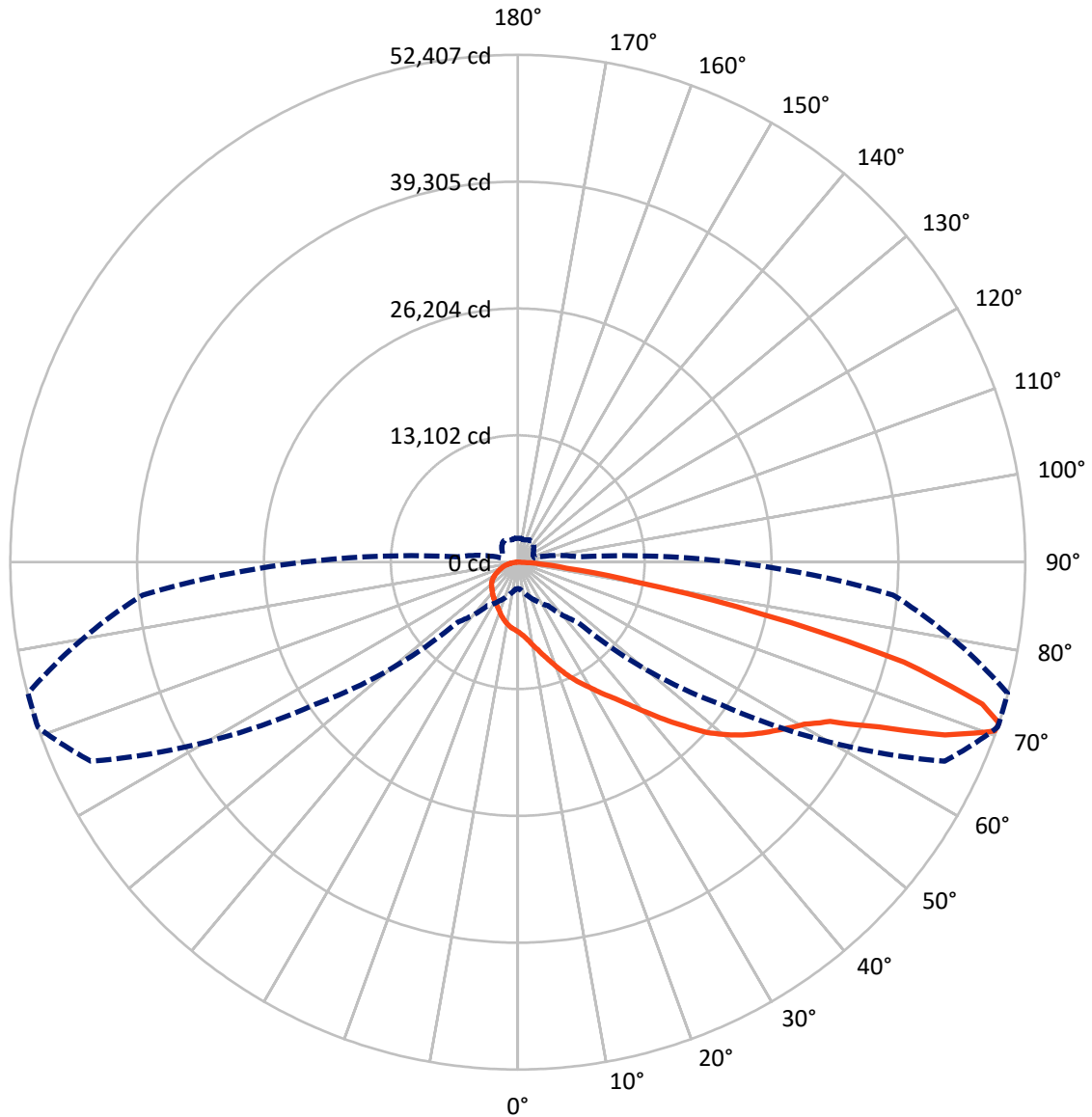
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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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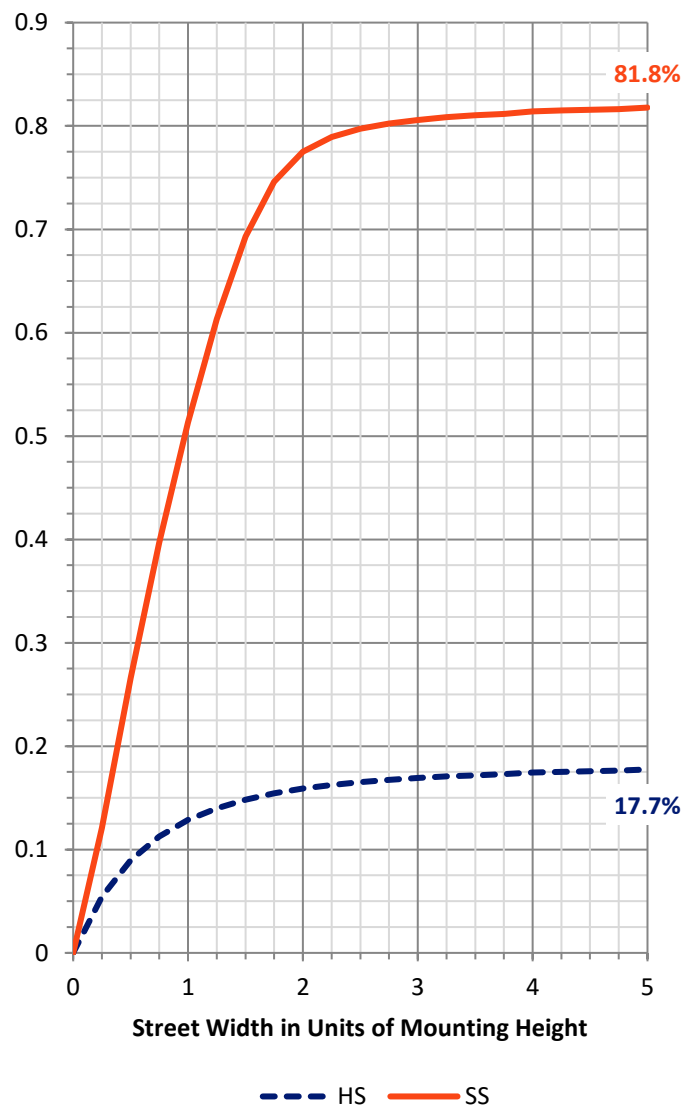
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10525.2	0.0	10525.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	47997.8	0.0	47997.8
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	58523.0	0.0	58523.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	721.2	1.2
10°-20°	2343.0	4.0
20°-30°	4094.7	7.0
30°-40°	6090.3	10.4
40°-50°	8973.3	15.3
50°-60°	12562.7	21.5
60°-70°	14050.9	24.0
70°-80°	8582.9	14.7
80°-90°	1104.1	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°	58523.0	100.0
0°-180°	58523.0	100.0

**Coefficient of Utilization**



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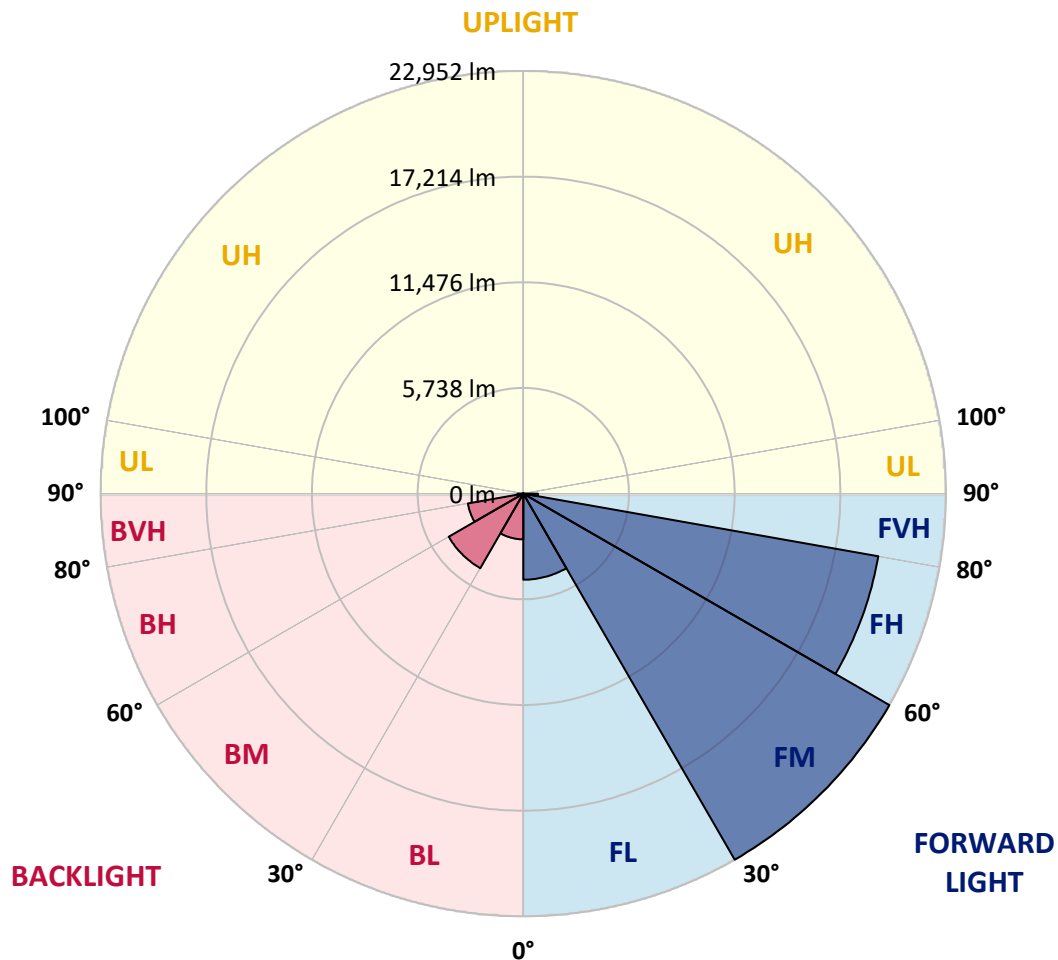
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4676.0	8.0			
FM	(30°-60°)	22951.6	39.2			
FH	(60°-80°)	19575.8	33.4			G5
FVH	(80°-90°)	794.4	1.4			G5
BL	(0°-30°)	2482.9	4.2	B3/2500		
BM	(30°-60°)	4674.7	8.0	B3/5000		
BH	(60°-80°)	3058.0	5.2	B4/5000		G4/5000
BVH	(80°-90°)	309.7	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°	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5
2.5°	7973.8	7935.2	7938.4	7883.8	7813.0	7735.8	7626.4	7529.9	7452.7	7407.7	7275.8
5°	8835.8	8797.2	8749.0	8630.0	8578.5	8388.7	8147.5	7928.8	7761.5	7668.2	7404.5
7.5°	9533.8	9524.2	9511.3	9443.8	9311.9	9048.1	8842.3	8462.7	8215.1	8038.1	7587.8
10°	9964.9	9980.9	9990.6	10003.5	9948.8	9810.5	9527.4	9048.1	8732.9	8507.8	7825.9
12.5°	10183.6	10199.7	10254.3	10373.4	10447.3	10431.3	10199.7	9730.0	9295.8	8999.9	8080.0
15°	10318.7	10344.4	10440.9	10598.5	10846.2	11003.8	10891.2	10457.0	9980.9	9630.3	8382.3
17.5°	10466.6	10495.6	10601.7	10826.9	11151.8	11492.7	11614.9	11241.8	10724.0	10305.8	8720.1
20°	10550.3	10588.9	10740.0	11036.0	11415.5	11910.9	12316.1	12119.9	11553.8	11090.6	9109.3
22.5°	10685.4	10717.5	10846.2	11161.4	11614.9	12235.7	13017.4	12975.5	12477.0	11878.7	9537.1
25°	11052.0	11103.5	11167.8	11357.6	11795.1	12567.0	13599.6	13889.0	13371.2	12702.1	9929.5
27.5°	11743.6	11785.4	11782.2	11807.9	12055.6	12853.3	14104.5	14792.9	14258.9	13535.2	10309.0
30°	12531.7	12547.7	12560.6	12502.7	12557.4	13146.0	14567.7	15687.1	15153.1	14390.8	10640.3
32.5°	13490.2	13522.4	13413.0	13265.0	13220.0	13580.3	14950.5	16581.3	16211.4	15259.3	10968.4
35°	14622.4	14706.0	14484.1	14223.6	14040.2	14204.3	15465.1	17494.8	17295.4	16369.0	11402.7
37.5°	15915.5	16018.4	15812.5	15301.1	15040.6	15085.6	16137.4	18623.8	18665.6	17633.1	12049.2
40°	16973.7	17108.8	17115.2	16391.5	15995.9	16047.3	16989.8	19839.6	20318.9	19196.3	12811.5
42.5°	17671.7	17803.6	17941.9	17517.3	17102.4	17395.1	17983.7	21158.4	22178.1	21094.1	13876.2
45°	18437.2	18556.2	18633.4	18440.4	18208.9	18968.0	19183.5	22560.8	24159.5	23213.8	15040.6
47.5°	19325.0	19456.9	19530.9	19347.5	19260.7	20347.9	20476.5	23870.0	26276.0	25272.4	16327.2
50°	20508.7	20608.4	20569.8	20454.0	20434.7	21406.1	21718.1	25095.5	28022.5	27488.6	17662.0
52.5°	21981.9	22100.9	22142.7	21978.6	21904.7	22162.0	22718.5	26211.6	29611.5	29392.8	19087.0
55°	22872.8	23062.6	23699.5	23956.8	24133.7	23139.8	23796.0	27443.6	31036.4	31399.9	20618.1
57.5°	21731.0	21975.4	23400.4	24687.0	26349.9	25584.4	25323.9	28730.2	32461.4	33345.9	22451.5
60°	18945.4	19000.1	20836.8	23207.4	26552.6	28727.0	28511.5	30775.9	34005.3	35308.0	24867.1
62.5°	13142.8	13258.6	15429.8	19212.4	24050.1	29859.2	33934.5	34307.7	36218.3	38244.7	28408.5
65°	6777.3	6626.1	8604.3	12074.9	18131.7	27170.2	38328.3	40801.9	41017.4	42837.9	33394.2
67.5°	4171.9	4239.4	5165.8	7050.7	10720.7	19746.4	37868.4	48737.1	47601.6	48476.5	38022.8
70°	3132.9	3216.5	3853.4	4824.8	6536.0	11290.1	30454.2	50660.6	52246.3	52021.2	39431.6
71°	2724.4	2811.3	3473.9	4390.6	5490.6	8713.6	25658.4	48647.0	52407.2	52368.6	38900.9
72.5°	2322.3	2377.0	2894.9	3718.3	4628.6	6108.2	19276.8	43629.2	50171.7	51455.1	37006.3
75°	1823.8	1865.6	2097.2	2837.0	3644.3	3750.5	10344.4	32709.0	41207.2	43651.7	30808.1
77.5°	1486.0	1515.0	1634.0	2106.8	2811.3	2656.9	5426.3	21290.3	25816.0	28276.6	18147.7
80°	1180.5	1212.6	1283.4	1428.1	2106.8	1894.5	2589.3	10788.3	12470.5	12444.8	7243.7
82.5°	916.7	926.4	1010.0	1048.6	1441.0	1344.5	1402.4	4567.5	5059.6	5226.9	2615.1
85°	579.0	607.9	894.2	804.1	862.0	788.1	691.6	1814.1	2235.5	2203.3	1045.4
87.5°	176.9	186.6	302.4	341.0	382.8	344.2	254.1	533.9	653.0	707.6	260.5
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°	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5	7182.5
2.5°	7224.4	7189.0	7063.5	6960.6	6864.1	6758.0	6667.9	6642.2	6619.6	6610.0	6606.8
5°	7291.9	7185.8	6938.1	6735.4	6574.6	6426.7	6333.4	6291.6	6249.7	6249.7	6262.6
7.5°	7388.4	7195.4	6812.6	6510.3	6307.6	6169.3	6101.8	6095.4	6105.0	6114.7	6117.9
10°	7494.5	7189.0	6629.3	6253.0	6072.8	6008.5	6011.7	6066.4	6117.9	6156.5	6162.9
12.5°	7597.5	7150.4	6413.8	6011.7	5895.9	5908.8	5998.9	6121.1	6220.8	6275.5	6278.7
15°	7713.3	7089.3	6153.2	5783.3	5744.7	5844.5	6011.7	6198.3	6349.5	6439.5	6449.2
17.5°	7809.8	6986.3	5879.8	5561.4	5609.7	5793.0	6024.6	6265.8	6449.2	6561.8	6581.1
20°	7919.1	6854.5	5596.8	5349.1	5487.4	5735.1	5998.9	6259.4	6449.2	6558.5	6584.3
22.5°	8006.0	6667.9	5326.6	5175.4	5378.1	5664.3	5912.0	6121.1	6275.5	6333.4	6372.0
25°	8041.4	6433.1	5072.5	5033.9	5291.2	5548.5	5715.8	5834.8	5883.1	5876.6	5892.7
27.5°	8022.1	6162.9	4853.8	4921.3	5181.9	5368.4	5452.0	5442.4	5355.5	5275.1	5313.7
30°	7941.6	5841.2	4670.4	4805.5	5040.3	5143.3	5130.4	5004.9	4840.9	4689.7	4699.4
32.5°	7796.9	5493.9	4499.9	4673.6	4840.9	4885.9	4799.1	4635.0	4400.2	4204.0	4175.1
35°	7674.7	5162.6	4348.8	4522.5	4641.5	4619.0	4535.3	4323.0	4110.7	3937.1	3908.1
37.5°	7655.4	4879.5	4204.0	4352.0	4419.5	4387.4	4284.4	4104.3	4027.1	3895.2	3879.2
40°	7758.3	4680.1	4056.1	4171.9	4204.0	4178.3	4065.7	3962.8	4033.5	4001.4	4001.4
42.5°	8038.1	4573.9	3924.2	3991.7	4017.5	4036.8	3956.3	3869.5	3956.3	3808.4	3760.1
45°	8482.0	4577.1	3805.2	3814.8	3892.0	3959.6	3904.9	3776.2	3731.2	3435.3	3377.4
47.5°	9135.0	4686.5	3708.7	3647.6	3785.9	3898.5	3821.3	3634.7	3435.3	3239.1	3203.7
50°	9897.3	4882.7	3621.8	3473.9	3644.3	3821.3	3763.4	3544.6	3338.8	3219.8	3197.2
52.5°	10743.3	5130.4	3515.7	3280.9	3470.7	3785.9	3776.2	3531.8	3248.7	3168.3	3149.0
55°	11788.6	5374.8	3383.8	3055.7	3316.3	3756.9	3740.8	3425.6	3229.4	3171.5	3165.1
57.5°	13004.5	5728.7	3194.0	2827.3	3139.3	3637.9	3602.5	3361.3	3165.1	3123.3	3120.0
60°	14963.4	6278.7	2923.8	2618.3	2959.2	3428.8	3473.9	3251.9	3062.2	3052.5	3049.3
62.5°	17539.8	7050.7	2644.0	2402.8	2750.1	3158.6	3287.3	3104.0	2952.8	3001.0	3007.5
65°	21097.3	7700.4	2354.5	2219.4	2518.6	2898.1	3110.4	2965.7	2830.6	2923.8	2923.8
67.5°	23416.4	7713.3	2090.8	2029.6	2283.7	2679.4	2923.8	2801.6	2672.9	2830.6	2837.0
70°	22934.0	6758.0	1872.0	1830.2	2055.4	2444.6	2718.0	2621.5	2473.5	2615.1	2563.6
71°	22155.6	6227.2	1785.2	1753.0	1965.3	2332.0	2621.5	2541.1	2393.1	2486.4	2457.4
72.5°	20914.0	5407.0	1643.7	1650.1	1830.2	2190.5	2486.4	2402.8	2254.8	2306.3	2296.6
75°	17678.1	4721.9	1405.6	1434.6	1572.9	1949.2	2216.2	2151.9	2000.7	2000.7	1991.0
77.5°	11052.0	3300.2	1167.6	1183.7	1334.9	1669.4	1904.2	1849.5	1704.8	1656.5	1643.7
80°	4123.6	1704.8	913.5	932.8	1026.1	1315.6	1576.1	1524.6	1376.7	1322.0	1270.5
82.5°	1560.0	855.6	672.3	656.2	755.9	1003.6	1235.2	1174.0	1058.2	926.4	887.8
85°	588.6	424.6	411.7	398.9	443.9	595.1	765.5	752.7	630.4	537.2	527.5
87.5°	154.4	138.3	160.8	119.0	125.4	112.6	115.8	48.2	22.5	9.6	6.4
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)