

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: P457864

Luminaire Tested: **GALN-SA9B-727-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457864  
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-SA9B-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43387 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

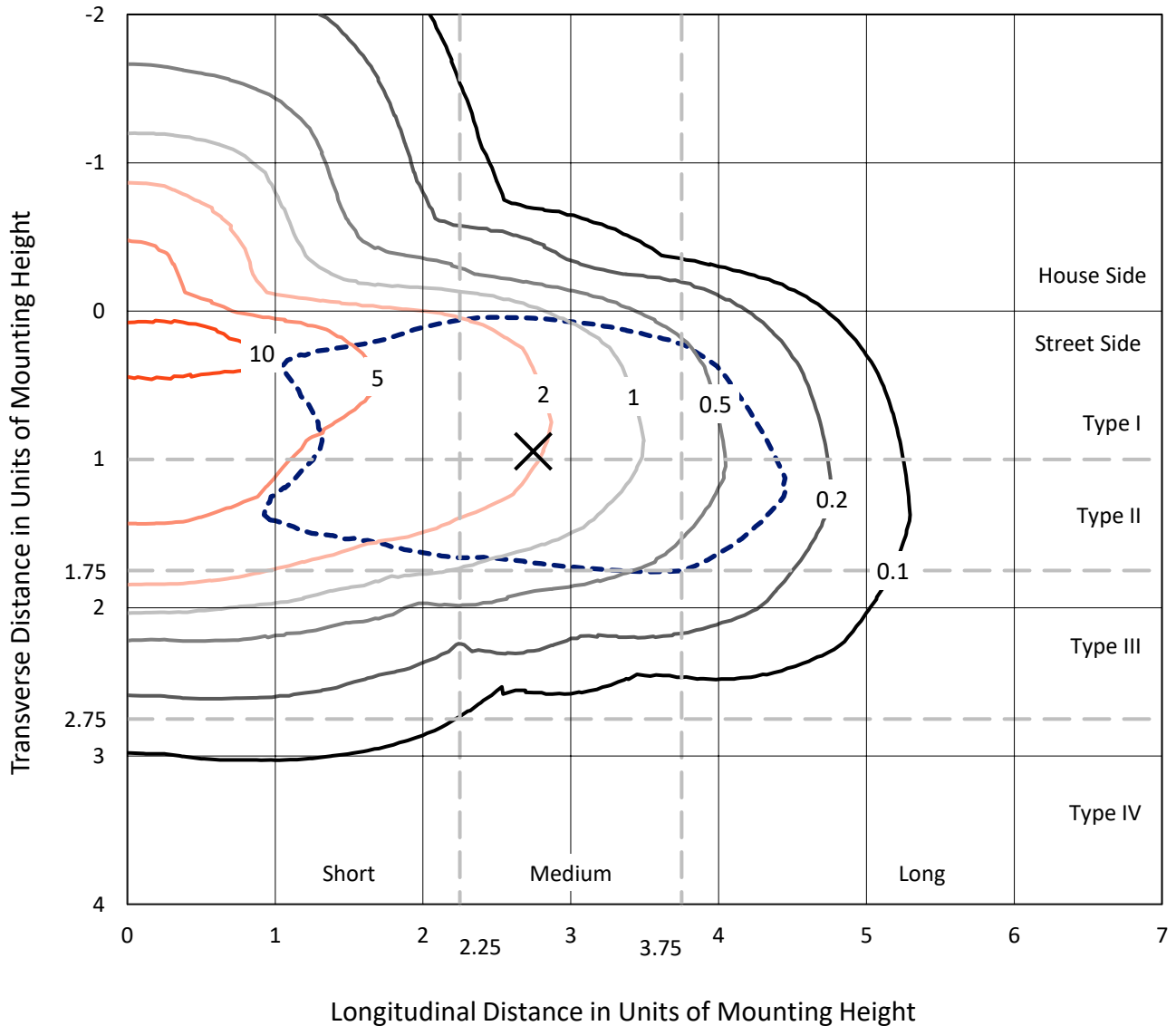
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

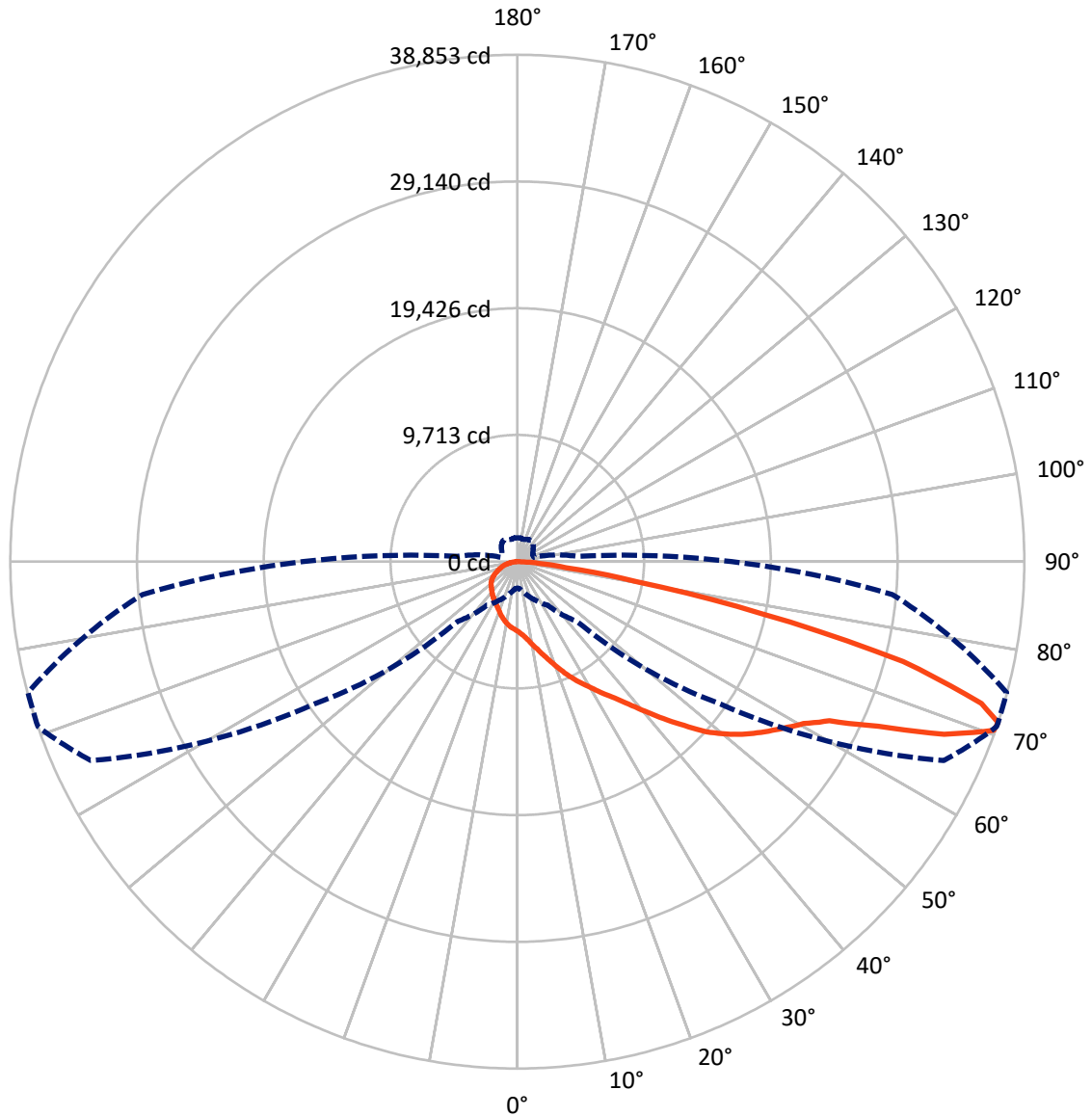
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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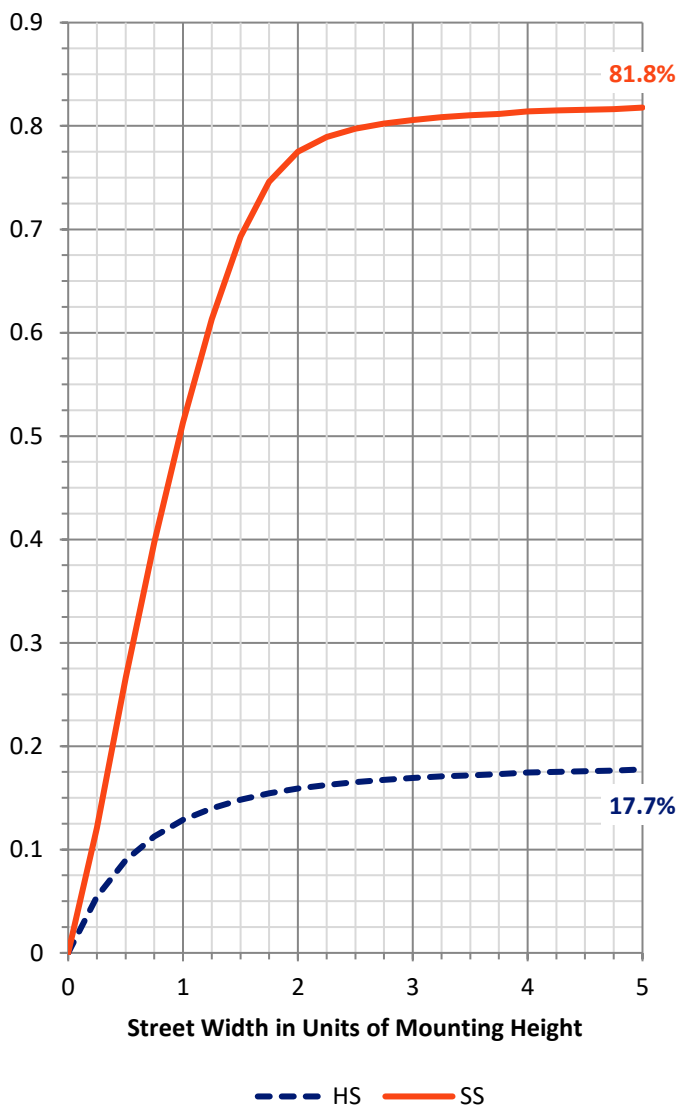
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7803.0	0.0	7803.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	35584.0	0.0	35584.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	43387.0	0.0	43387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.7	1.2
10°-20°	1737.1	4.0
20°-30°	3035.6	7.0
30°-40°	4515.1	10.4
40°-50°	6652.5	15.3
50°-60°	9313.6	21.5
60°-70°	10416.9	24.0
70°-80°	6363.0	14.7
80°-90°	818.5	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°	43387.0	100.0
0°-180°	43387.0	100.0

**Coefficient of Utilization**



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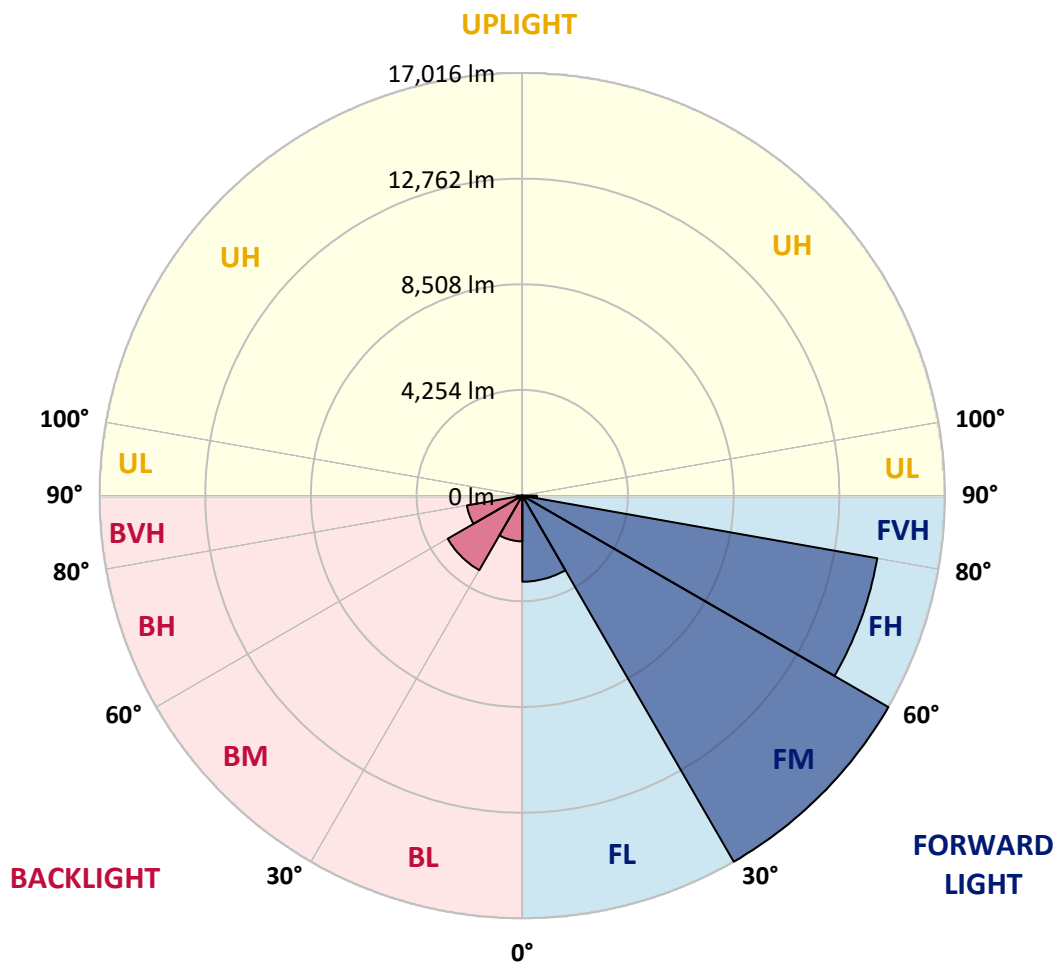
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3466.6	8.0			
FM	(30°-60°)	17015.5	39.2			
FH	(60°-80°)	14512.8	33.4			G5
FVH	(80°-90°)	589.0	1.4			G4/750
BL	(0°-30°)	1840.7	4.2	B3/2500		
BM	(30°-60°)	3465.6	8.0	B3/5000		
BH	(60°-80°)	2267.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	229.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9
2.5°	5911.5	5882.9	5885.3	5844.7	5792.3	5735.1	5654.0	5582.4	5525.2	5491.8	5394.1
5°	6550.6	6522.0	6486.2	6398.0	6359.8	6219.1	6040.3	5878.1	5754.1	5685.0	5489.4
7.5°	7068.1	7060.9	7051.4	7001.3	6903.5	6708.0	6555.4	6274.0	6090.4	5959.2	5625.4
10°	7387.6	7399.5	7406.7	7416.2	7375.7	7273.1	7063.3	6708.0	6474.3	6307.4	5801.8
12.5°	7549.8	7561.7	7602.2	7690.5	7745.3	7733.4	7561.7	7213.5	6891.6	6672.2	5990.2
15°	7649.9	7669.0	7740.5	7857.4	8041.0	8157.8	8074.4	7752.5	7399.5	7139.6	6214.4
17.5°	7759.6	7781.1	7859.8	8026.7	8267.5	8520.3	8610.9	8334.3	7950.4	7640.4	6464.8
20°	7821.6	7850.2	7962.3	8181.7	8463.1	8830.3	9130.8	8985.3	8565.6	8222.2	6753.3
22.5°	7921.8	7945.6	8041.0	8274.7	8610.9	9071.2	9650.6	9619.6	9250.0	8806.5	7070.5
25°	8193.6	8231.8	8279.5	8420.2	8744.5	9316.8	10082.3	10296.9	9912.9	9416.9	7361.4
27.5°	8706.3	8737.3	8734.9	8754.0	8937.6	9529.0	10456.6	10967.0	10571.1	10034.6	7642.8
30°	9290.6	9302.5	9312.0	9269.1	9309.6	9746.0	10800.0	11629.9	11234.0	10668.9	7888.4
32.5°	10001.2	10025.0	9943.9	9834.3	9800.9	10067.9	11083.8	12292.8	12018.6	11312.7	8131.6
35°	10840.6	10902.6	10738.0	10544.9	10408.9	10530.6	11465.3	12970.1	12822.2	12135.4	8453.5
37.5°	11799.2	11875.5	11722.9	11343.7	11150.6	11184.0	11963.7	13807.1	13838.1	13072.6	8932.9
40°	12583.7	12683.9	12688.7	12152.1	11858.8	11897.0	12595.7	14708.5	15063.8	14231.5	9498.0
42.5°	13101.2	13199.0	13301.5	12986.7	12679.1	12896.1	13332.5	15686.2	16442.1	15638.5	10287.3
45°	13668.7	13757.0	13814.2	13671.1	13499.4	14062.2	14222.0	16725.9	17911.0	17209.9	11150.6
47.5°	14326.9	14424.7	14479.5	14343.6	14279.2	15085.2	15180.6	17696.4	19480.1	18736.1	12104.4
50°	15204.5	15278.4	15249.8	15163.9	15149.6	15869.8	16101.1	18605.0	20775.0	20379.1	13094.1
52.5°	16296.6	16384.9	16415.9	16294.2	16239.4	16430.2	16842.7	19432.4	21953.0	21790.8	14150.4
55°	16957.2	17097.9	17570.0	17760.8	17891.9	17155.1	17641.6	20345.7	23009.4	23278.8	15285.5
57.5°	16110.6	16291.9	17348.2	18302.1	19535.0	18967.4	18774.3	21299.6	24065.8	24721.6	16644.8
60°	14045.5	14086.1	15447.7	17205.2	19685.2	21297.2	21137.4	22816.2	25210.4	26176.2	18435.6
62.5°	9743.6	9829.5	11439.1	14243.4	17829.9	22136.6	25157.9	25434.6	26851.0	28353.4	21061.1
65°	5024.4	4912.4	6378.9	8951.9	13442.2	20143.0	28415.4	30249.1	30408.9	31758.6	24757.3
67.5°	3092.9	3143.0	3829.7	5227.1	7948.0	14639.3	28074.4	36132.0	35290.3	35938.9	28188.8
70°	2322.6	2384.6	2856.8	3577.0	4845.6	8370.1	22577.8	37558.1	38733.7	38566.8	29233.3
71°	2019.8	2084.2	2575.4	3255.0	4070.6	6460.0	19022.3	36065.3	38852.9	38824.3	28839.8
72.5°	1721.7	1762.2	2146.2	2756.6	3431.5	4528.4	14291.1	32345.2	37195.6	38147.1	27435.3
75°	1352.1	1383.1	1554.8	2103.3	2701.8	2780.5	7669.0	24249.4	30549.6	32361.9	22840.1
77.5°	1101.7	1123.2	1211.4	1561.9	2084.2	1969.7	4022.9	15783.9	19139.1	20963.4	13454.1
80°	875.2	899.0	951.5	1058.8	1561.9	1404.6	1919.6	7998.1	9245.2	9226.2	5370.2
82.5°	679.6	686.8	748.8	777.4	1068.3	996.8	1039.7	3386.2	3751.0	3875.0	1938.7
85°	429.2	450.7	662.9	596.2	639.1	584.2	512.7	1344.9	1657.3	1633.5	775.0
87.5°	131.2	138.3	224.2	252.8	283.8	255.2	188.4	395.9	484.1	524.6	193.2
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°	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9	5324.9
2.5°	5355.9	5329.7	5236.7	5160.4	5088.8	5010.1	4943.4	4924.3	4907.6	4900.4	4898.0
5°	5406.0	5327.3	5143.7	4993.4	4874.2	4764.5	4695.4	4664.4	4633.4	4633.4	4642.9
7.5°	5477.5	5334.4	5050.7	4826.5	4676.3	4573.7	4523.7	4518.9	4526.0	4533.2	4535.6
10°	5556.2	5329.7	4914.7	4635.7	4502.2	4454.5	4456.9	4497.4	4535.6	4564.2	4569.0
12.5°	5632.5	5301.1	4755.0	4456.9	4371.0	4380.6	4447.4	4538.0	4611.9	4652.4	4654.8
15°	5718.4	5255.7	4561.8	4287.6	4259.0	4332.9	4456.9	4595.2	4707.3	4774.0	4781.2
17.5°	5789.9	5179.4	4359.1	4123.0	4158.8	4294.7	4466.4	4645.3	4781.2	4864.7	4879.0
20°	5871.0	5081.7	4149.3	3965.7	4068.2	4251.8	4447.4	4640.5	4781.2	4862.3	4881.4
22.5°	5935.4	4943.4	3949.0	3836.9	3987.1	4199.3	4383.0	4538.0	4652.4	4695.4	4724.0
25°	5961.6	4769.3	3760.6	3732.0	3922.7	4113.5	4237.5	4325.7	4361.5	4356.7	4368.7
27.5°	5947.3	4569.0	3598.4	3648.5	3841.7	3980.0	4042.0	4034.8	3970.4	3910.8	3939.4
30°	5887.7	4330.5	3462.5	3562.7	3736.7	3813.0	3803.5	3710.5	3588.9	3476.8	3484.0
32.5°	5780.4	4073.0	3336.1	3464.9	3588.9	3622.3	3557.9	3436.3	3262.2	3116.7	3095.3
35°	5689.7	3827.3	3224.0	3352.8	3441.0	3424.3	3362.3	3205.0	3047.6	2918.8	2897.3
37.5°	5675.4	3617.5	3116.7	3226.4	3276.5	3252.6	3176.3	3042.8	2985.6	2887.8	2875.9
40°	5751.7	3469.6	3007.0	3092.9	3116.7	3097.6	3014.2	2937.9	2990.3	2966.5	2966.5
42.5°	5959.2	3391.0	2909.3	2959.3	2978.4	2992.7	2933.1	2868.7	2933.1	2823.4	2787.6
45°	6288.3	3393.3	2821.0	2828.2	2885.4	2935.5	2895.0	2799.6	2766.2	2546.8	2503.9
47.5°	6772.4	3474.4	2749.5	2704.2	2806.7	2890.2	2833.0	2694.6	2546.8	2401.3	2375.1
50°	7337.5	3619.9	2685.1	2575.4	2701.8	2833.0	2790.0	2627.9	2475.3	2387.0	2370.3
52.5°	7964.7	3803.5	2606.4	2432.3	2573.0	2806.7	2799.6	2618.3	2408.5	2348.9	2334.6
55°	8739.7	3984.7	2508.6	2265.4	2458.6	2785.3	2773.3	2539.6	2394.2	2351.3	2346.5
57.5°	9641.1	4247.0	2367.9	2096.1	2327.4	2697.0	2670.8	2491.9	2346.5	2315.5	2313.1
60°	11093.3	4654.8	2167.6	1941.1	2193.9	2542.0	2575.4	2410.9	2270.2	2263.0	2260.6
62.5°	13003.4	5227.1	1960.2	1781.3	2038.9	2341.7	2437.1	2301.2	2189.1	2224.9	2229.6
65°	15640.8	5708.8	1745.6	1645.4	1867.2	2148.6	2305.9	2198.6	2098.5	2167.6	2167.6
67.5°	17360.2	5718.4	1550.0	1504.7	1693.1	1986.4	2167.6	2077.0	1981.6	2098.5	2103.3
70°	17002.5	5010.1	1387.9	1356.9	1523.8	1812.3	2015.0	1943.5	1833.8	1938.7	1900.6
71°	16425.4	4616.7	1323.5	1299.6	1457.0	1728.9	1943.5	1883.9	1774.2	1843.3	1821.9
72.5°	15504.9	4008.6	1218.6	1223.3	1356.9	1623.9	1843.3	1781.3	1671.6	1709.8	1702.6
75°	13106.0	3500.6	1042.1	1063.5	1166.1	1445.1	1643.0	1595.3	1483.2	1483.2	1476.1
77.5°	8193.6	2446.6	865.6	877.5	989.6	1237.6	1411.7	1371.2	1263.9	1228.1	1218.6
80°	3057.1	1263.9	677.2	691.5	760.7	975.3	1168.5	1130.3	1020.6	980.1	941.9
82.5°	1156.5	634.3	498.4	486.5	560.4	744.0	915.7	870.4	784.5	686.8	658.2
85°	436.4	314.8	305.2	295.7	329.1	441.2	567.5	558.0	467.4	398.2	391.1
87.5°	114.5	102.5	119.2	88.2	93.0	83.5	85.8	35.8	16.7	7.2	4.8
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)