

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: P458769

Luminaire Tested: **GALN-SA3A-735-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13014 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

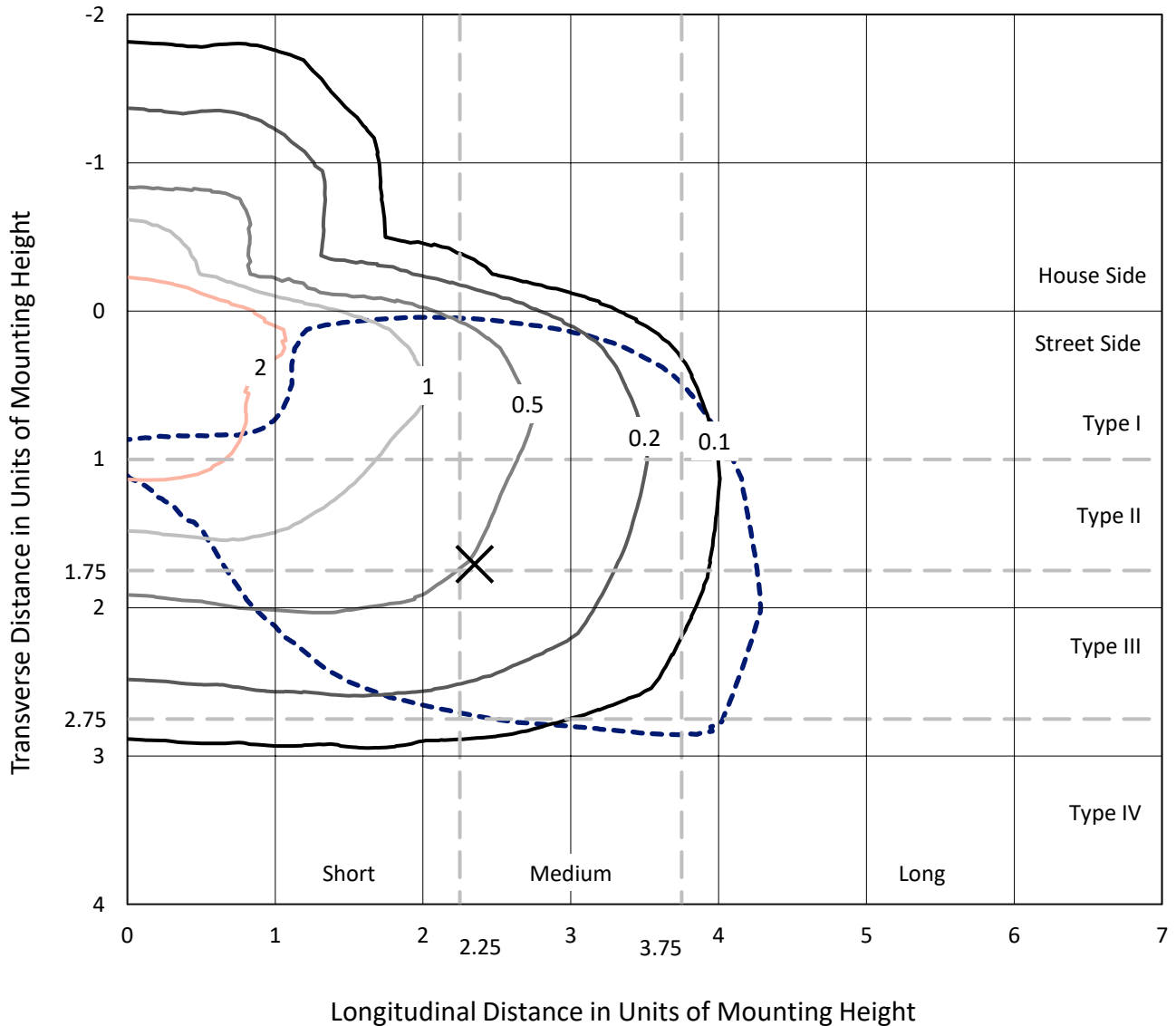
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458769  
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### Iso-Footcandle Lines of Horizontal Illumination

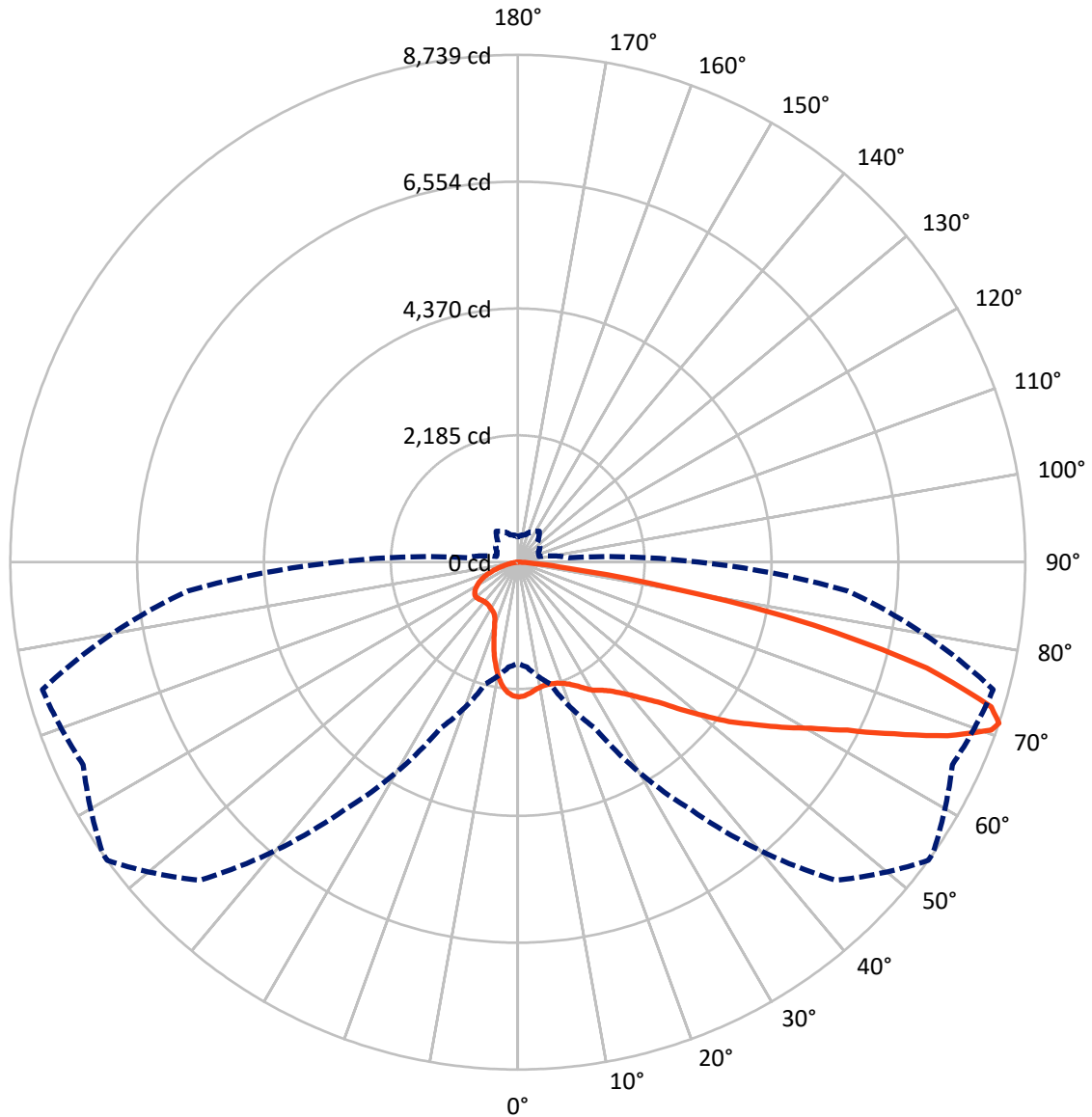
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Medium - N/A

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CATALOG NUMBER: GALN-SA3A-735-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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CATALOG NUMBER: GALN-SA3A-735-U-T3R

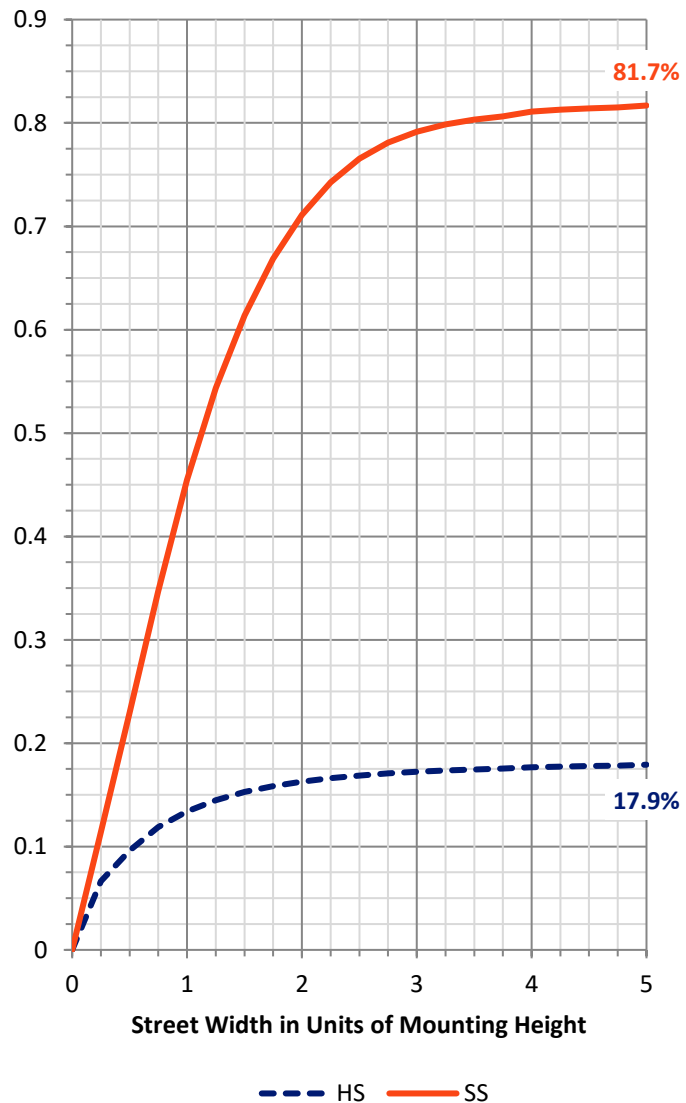
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2349.6	0.0	2349.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	10664.4	0.0	10664.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	13014.0	0.0	13014.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.9	1.6
10°-20°	546.4	4.2
20°-30°	909.7	7.0
30°-40°	1345.2	10.3
40°-50°	1894.7	14.6
50°-60°	2537.1	19.5
60°-70°	3197.8	24.6
70°-80°	2184.1	16.8
80°-90°	192.1	1.5
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°	13014.0	100.0
0°-180°	13014.0	100.0



REPORT NUMBER: P458769

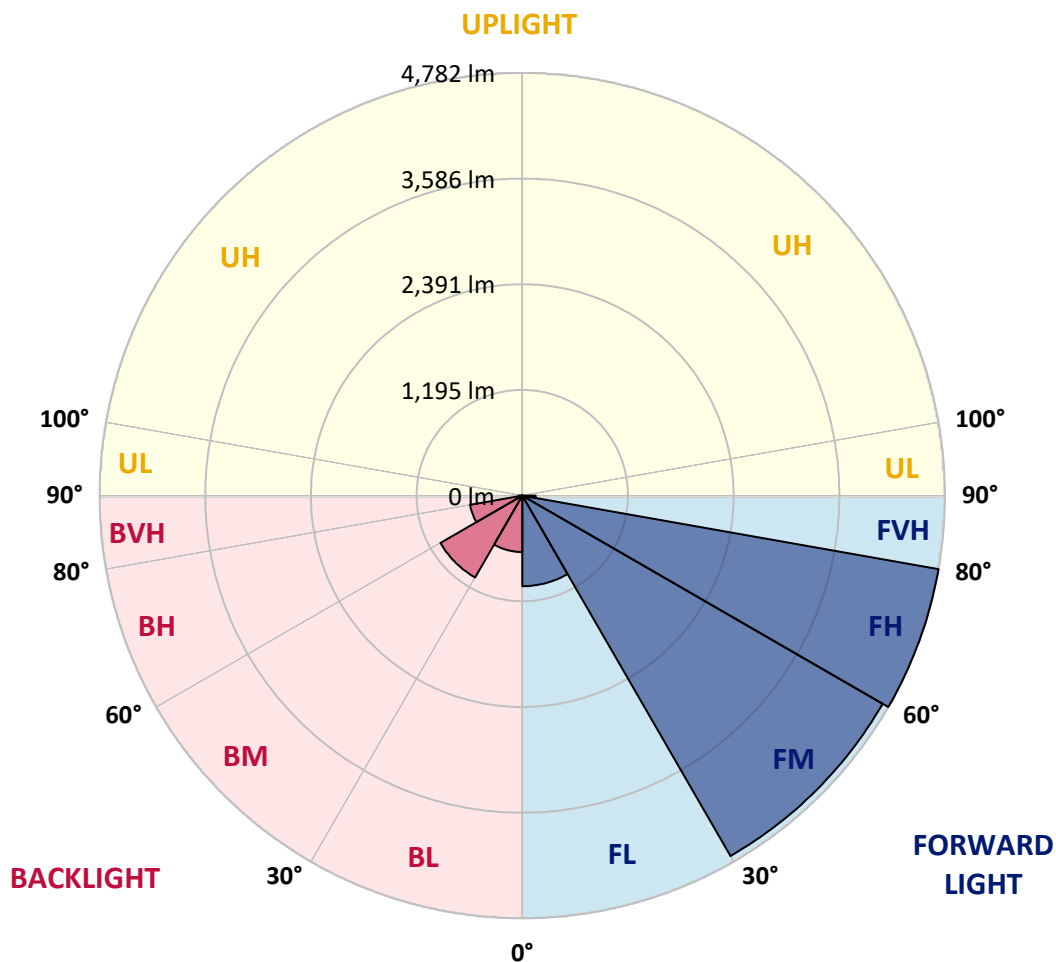
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1024.4	7.9			
FM	(30°-60°)	4708.0	36.2			
FH	(60°-80°)	4781.9	36.7			G2/5000
FVH	(80°-90°)	150.1	1.2			G2/225
BL	(0°-30°)	638.6	4.9	B2/1000		
BM	(30°-60°)	1069.0	8.2	B2/2500		
BH	(60°-80°)	600.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	41.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9
2.5°	2243.2	2253.7	2256.5	2263.5	2278.3	2290.3	2302.2	2300.8	2317.7	2324.7	2331.0
5°	2143.3	2146.1	2156.7	2170.8	2196.8	2229.8	2262.1	2262.8	2304.3	2337.4	2353.5
7.5°	2070.2	2079.4	2086.4	2101.2	2128.6	2164.4	2215.7	2220.0	2293.8	2359.1	2393.6
10°	2022.4	2033.0	2040.7	2059.0	2086.4	2126.5	2182.0	2189.7	2286.0	2393.6	2454.0
12.5°	1978.8	1989.4	1996.4	2020.3	2056.2	2105.4	2167.9	2177.1	2288.9	2433.7	2520.1
15°	2005.6	2014.0	2011.2	2018.2	2042.1	2098.3	2173.6	2182.7	2299.4	2472.3	2585.5
17.5°	2124.4	2131.4	2108.2	2081.5	2070.2	2111.7	2191.1	2201.0	2320.5	2512.4	2652.3
20°	2299.4	2318.4	2267.8	2208.0	2153.9	2159.5	2227.7	2238.2	2350.0	2552.5	2720.5
22.5°	2527.2	2541.2	2479.4	2380.9	2281.1	2229.8	2282.5	2288.9	2394.3	2604.5	2795.0
25°	2795.0	2803.4	2717.7	2591.1	2447.0	2350.0	2357.7	2369.0	2467.4	2663.5	2861.1
27.5°	3055.1	3081.8	2982.7	2828.0	2638.2	2476.5	2461.1	2468.1	2546.8	2696.6	2906.8
30°	3363.7	3361.6	3256.8	3077.6	2834.4	2614.3	2558.8	2557.4	2589.7	2712.7	2939.8
32.5°	3609.7	3638.5	3535.9	3340.5	3058.6	2757.0	2626.3	2623.5	2622.8	2740.9	2989.0
35°	3889.5	3893.7	3799.5	3602.7	3301.1	2936.3	2720.5	2706.4	2690.2	2801.3	3055.8
37.5°	4139.8	4159.4	4073.0	3852.2	3539.4	3122.6	2849.8	2840.7	2791.5	2906.1	3162.6
40°	4335.2	4349.9	4297.9	4087.7	3774.2	3323.6	3014.3	2997.4	2937.7	3077.6	3305.3
42.5°	4399.1	4429.4	4449.8	4346.4	4044.2	3561.9	3216.8	3195.7	3150.0	3337.7	3469.8
45°	4404.1	4451.9	4559.4	4564.3	4315.5	3847.3	3453.0	3438.2	3434.7	3670.9	3701.1
47.5°	4366.8	4415.3	4596.0	4693.7	4557.3	4135.5	3793.9	3770.7	3772.8	4082.8	3960.5
50°	4276.8	4334.5	4553.8	4776.6	4746.4	4435.0	4153.8	4146.1	4189.7	4553.1	4229.7
52.5°	4107.4	4177.0	4510.2	4828.7	4887.0	4693.0	4562.9	4541.1	4651.5	5063.5	4524.3
55°	3638.5	3743.3	4350.6	4857.5	5020.6	4939.7	4931.3	4970.7	5116.9	5620.2	4848.3
57.5°	3393.9	3472.6	4004.1	4862.4	5189.3	5226.5	5361.5	5371.3	5627.2	6211.4	5214.6
60°	3260.3	3329.9	3814.3	4830.1	5424.8	5581.5	5801.6	5836.7	6125.6	6851.8	5594.2
62.5°	3143.7	3203.4	3700.4	4718.3	5690.5	6108.1	6371.7	6388.5	6691.5	7559.0	5968.9
65°	2868.8	2937.0	3471.2	4606.5	5919.7	6766.0	7128.1	7108.4	7294.0	8169.1	6203.7
67.5°	2498.3	2584.8	3043.1	4220.6	6032.8	7485.2	7980.0	7955.4	7888.7	8569.1	6271.1
70°	2025.2	2071.6	2495.5	3553.5	5580.8	7862.7	8652.8	8626.8	8257.0	8621.9	5952.0
71°	1742.6	1815.1	2172.9	3156.3	5204.7	7747.4	8739.2	8732.2	8257.7	8476.3	5711.6
72.5°	1360.2	1404.5	1720.9	2445.6	4423.8	7092.2	8525.5	8552.3	8078.5	8072.1	5216.0
75°	860.4	880.1	1079.8	1439.7	2427.3	5022.7	7277.8	7350.2	7173.0	6607.2	3879.0
77.5°	499.8	525.1	646.7	848.5	1048.8	2726.1	5207.6	5286.3	4984.0	3637.8	1588.0
80°	291.0	319.1	426.0	492.8	481.5	1011.6	2651.6	2785.8	2158.1	918.8	445.7
82.5°	161.7	180.7	299.5	300.2	256.6	330.4	834.4	873.1	615.8	370.5	182.1
85°	117.4	132.9	193.3	175.0	123.0	142.0	290.3	304.4	248.8	156.1	59.0
87.5°	41.5	59.0	106.1	84.4	33.7	29.5	83.7	68.2	63.3	43.6	13.4
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°	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9	2321.9
2.5°	2334.5	2335.9	2328.9	2316.3	2303.6	2287.4	2269.2	2255.1	2248.8	2248.1	2247.4
5°	2359.9	2363.4	2336.7	2297.3	2253.7	2200.3	2154.6	2102.6	2089.2	2068.1	2074.4
7.5°	2400.6	2398.5	2345.8	2262.1	2160.2	2047.0	1951.4	1895.9	1838.3	1822.1	1822.8
10°	2459.0	2445.6	2345.8	2190.4	2020.3	1852.3	1718.7	1634.4	1588.7	1550.7	1536.7
12.5°	2520.8	2487.1	2323.3	2089.9	1840.4	1634.4	1491.0	1377.1	1347.6	1316.7	1317.4
15°	2579.9	2523.6	2279.0	1948.6	1646.3	1401.7	1262.5	1194.3	1185.2	1188.7	1188.0
17.5°	2633.3	2549.7	2211.5	1791.2	1420.0	1202.1	1128.3	1133.2	1157.8	1175.4	1177.5
20°	2687.4	2565.1	2111.0	1580.3	1206.3	1081.2	1084.0	1122.6	1159.9	1183.8	1187.3
22.5°	2738.7	2572.1	1992.9	1376.4	1051.6	1029.8	1071.3	1112.8	1149.3	1172.5	1176.1
25°	2772.5	2556.0	1825.6	1163.4	975.7	1011.6	1055.1	1090.3	1121.2	1145.1	1150.8
27.5°	2781.6	2504.0	1618.2	991.2	940.6	994.0	1034.1	1060.1	1084.0	1106.5	1110.7
30°	2776.7	2427.3	1390.5	890.0	920.2	973.6	1004.5	1023.5	1052.3	1069.9	1073.4
32.5°	2769.0	2338.1	1152.9	835.8	903.3	954.6	972.9	989.8	989.1	982.0	987.0
35°	2771.8	2231.2	960.2	803.5	888.5	940.6	956.0	934.9	874.5	871.7	868.9
37.5°	2786.5	2125.8	820.4	781.0	880.8	938.5	946.9	849.9	796.5	771.9	765.5
40°	2824.5	2002.7	728.3	764.1	880.1	954.6	905.4	807.0	704.4	656.6	653.1
42.5°	2875.1	1881.8	672.0	753.6	888.5	979.2	888.5	746.5	634.8	606.7	602.4
45°	2950.3	1743.4	641.1	748.7	901.2	988.4	882.9	702.3	606.7	584.2	584.2
47.5°	3035.4	1611.2	624.2	745.1	917.4	982.0	833.0	688.2	593.3	596.1	609.5
50°	3119.8	1496.6	611.6	737.4	931.4	978.5	812.6	687.5	596.8	632.7	656.6
52.5°	3217.5	1415.8	596.1	724.8	931.4	956.0	806.3	701.6	606.7	617.2	627.7
55°	3335.6	1390.5	576.4	697.3	914.6	899.8	802.8	721.9	613.7	589.1	593.3
57.5°	3491.6	1431.2	557.5	662.9	875.9	841.4	801.4	727.6	597.5	577.1	572.9
60°	3673.0	1512.1	551.8	627.7	823.2	791.5	792.9	711.4	575.0	553.9	557.5
62.5°	3800.2	1560.6	548.3	601.0	765.5	736.7	772.6	691.7	565.2	546.9	550.4
65°	3800.2	1501.5	516.0	560.3	691.0	670.6	748.0	667.1	552.5	531.4	527.9
67.5°	3656.1	1329.3	466.8	499.1	608.8	595.4	713.5	637.6	533.5	517.4	508.9
70°	3280.7	1008.1	404.9	427.4	504.7	516.7	669.2	597.5	501.9	482.2	469.6
71°	3115.5	878.0	378.9	390.8	464.7	482.2	648.1	580.6	487.9	459.7	437.2
72.5°	2797.1	739.5	339.5	344.5	397.2	428.8	603.8	548.3	461.1	421.1	395.8
75°	2125.1	539.9	273.5	270.6	293.8	340.2	511.1	488.6	404.2	350.1	335.3
77.5°	918.1	293.8	204.6	206.7	199.6	258.0	402.1	419.7	346.6	284.7	271.3
80°	278.4	169.4	139.9	142.7	133.6	172.9	283.3	329.0	278.4	221.4	203.2
82.5°	142.7	101.2	95.6	94.2	85.1	97.7	171.5	224.9	198.9	138.5	122.3
85°	61.9	54.1	47.1	45.7	40.1	35.1	61.2	112.5	105.4	77.3	73.8
87.5°	15.5	14.1	9.1	8.4	4.9	0.7	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)