

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: P532602

Luminaire Tested: **GALN-SA8A-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26127 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

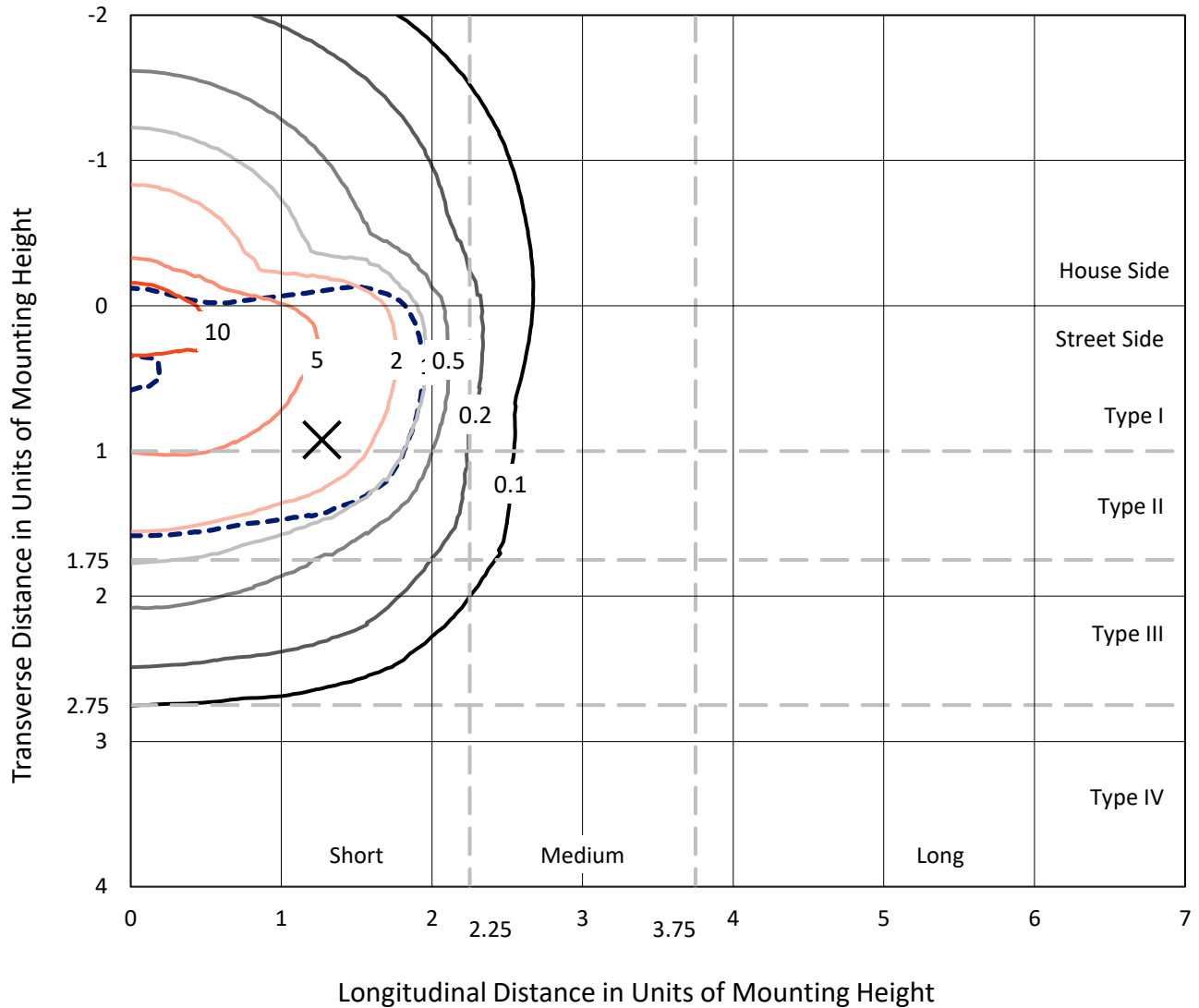
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

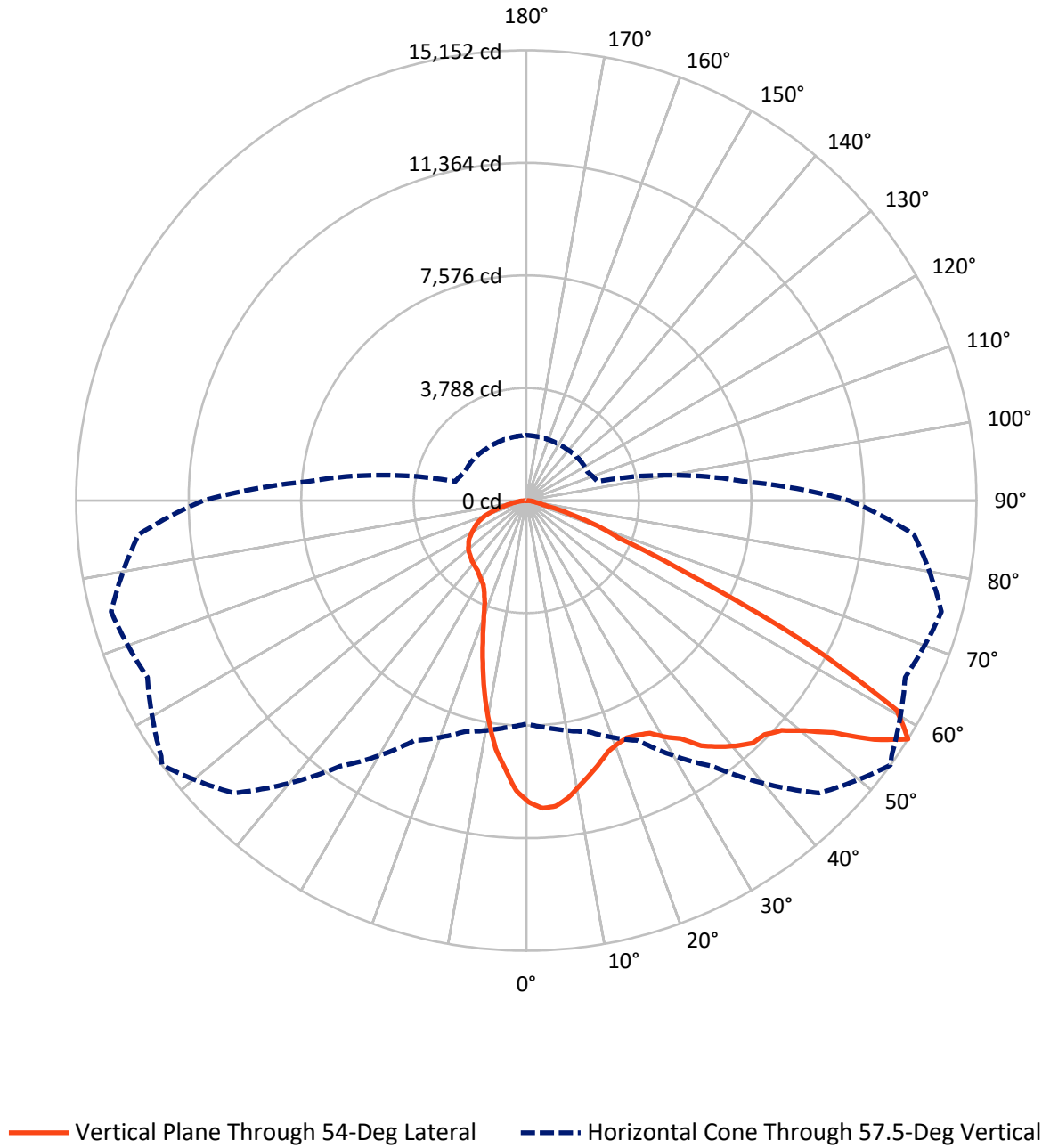
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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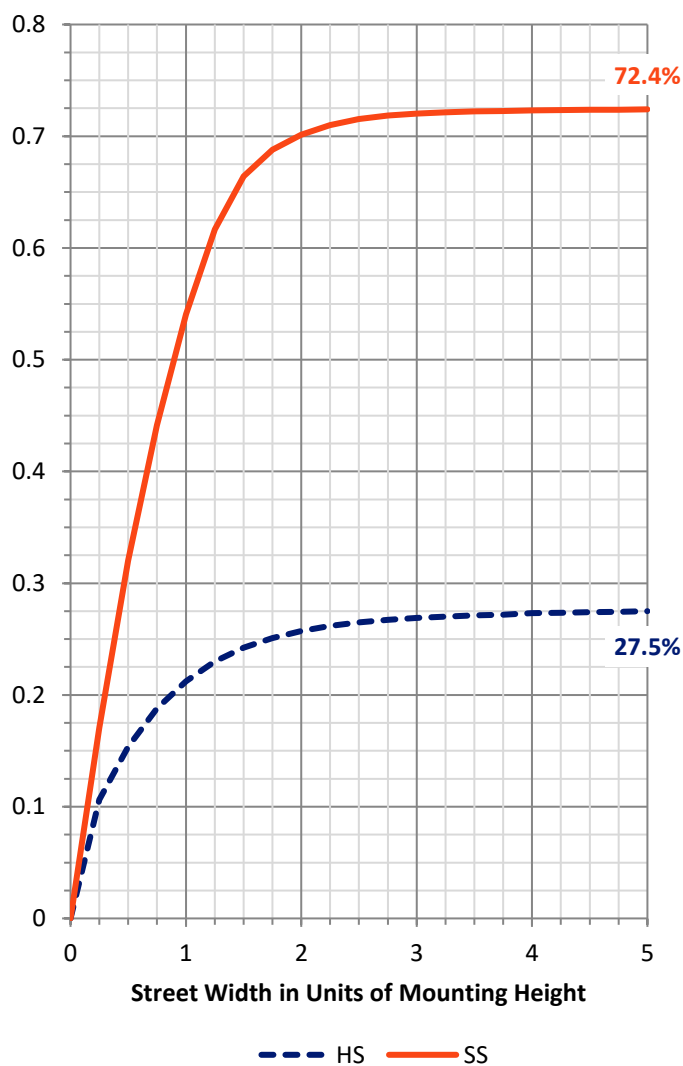
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7228.2	0.0	7228.2
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	18898.8	0.0	18898.8
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	26127.0	0.0	26127.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	875.8	3.4
10°-20°	2027.8	7.8
20°-30°	2849.1	10.9
30°-40°	3983.0	15.2
40°-50°	5392.2	20.6
50°-60°	6568.0	25.1
60°-70°	3420.9	13.1
70°-80°	876.6	3.4
80°-90°	133.7	0.5
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°	26127.0	100.0
0°-180°	26127.0	100.0

**Coefficient of Utilization**



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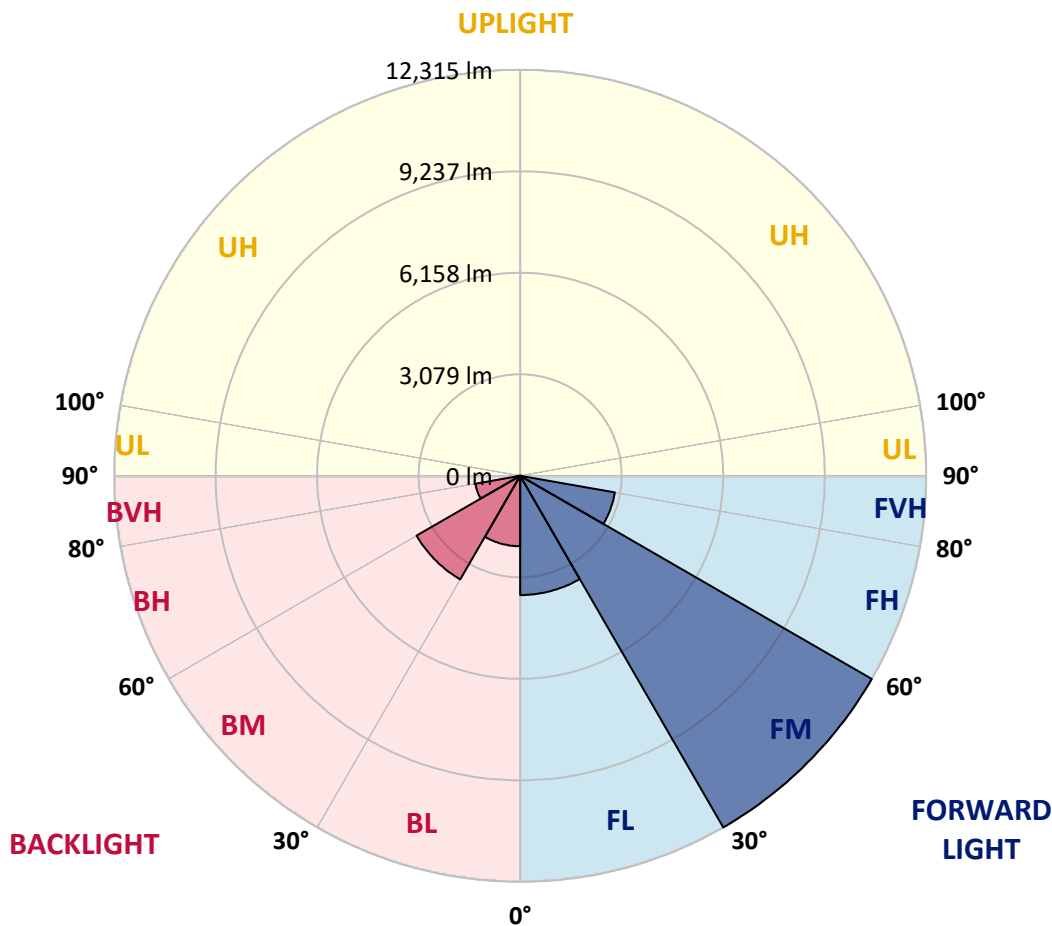
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3616.3	13.8			
FM (30°-60°)	12315.5	47.1			
FH (60°-80°)	2916.5	11.2			G2/5000
FVH (80°-90°)	50.5	0.2			G1/100
BL (0°-30°)	2136.3	8.2	B3/2500		
BM (30°-60°)	3627.8	13.9	B3/5000		
BH (60°-80°)	1380.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	83.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3
2.5°	10444.1	10403.8	10410.5	10464.2	10397.1	10370.2	10370.2	10239.2	10249.3	10158.6	10135.1
5°	10202.3	10108.3	10172.1	10252.7	10266.1	10293.0	10336.6	10303.0	10209.0	10111.6	9953.8
7.5°	9570.9	9654.9	9678.4	9735.5	9856.4	9967.2	10104.9	10010.9	10007.5	9910.1	9816.1
10°	9016.8	8966.5	9094.1	9178.0	9379.5	9564.2	9775.8	9765.7	9816.1	9705.3	9544.1
12.5°	8466.1	8425.8	8486.2	8677.6	8959.7	9228.4	9480.3	9386.2	9654.9	9634.7	9288.8
15°	7881.7	7912.0	7999.3	8177.3	8546.7	8869.1	9188.1	9191.5	9429.9	9510.5	9047.1
17.5°	7472.0	7438.5	7549.3	7814.6	8143.7	8529.9	8892.6	8966.5	9332.5	9379.5	8973.2
20°	7166.4	7213.5	7357.9	7492.2	7871.7	8338.5	8748.2	8775.0	9312.4	9440.0	8855.6
22.5°	7092.6	7065.7	7112.7	7331.0	7643.3	8150.4	8670.9	8771.7	9309.0	9419.8	8634.0
25°	7015.3	7102.6	7099.3	7317.6	7545.9	7999.3	8734.7	8845.6	9487.0	9523.9	8664.2
27.5°	7190.0	7179.9	7273.9	7290.7	7572.8	8039.6	8869.1	8953.0	9782.5	9752.3	8687.7
30°	7364.6	7314.2	7371.3	7569.4	7700.4	8271.3	9238.5	9231.8	10165.3	10145.2	8761.6
32.5°	7579.5	7556.0	7592.9	7767.6	7989.2	8580.3	9550.8	9748.9	10554.9	10682.5	9016.8
35°	7619.8	7717.2	7804.5	8039.6	8355.3	9080.6	10138.5	10303.0	11004.9	11404.5	9503.8
37.5°	7875.0	7912.0	8116.8	8533.2	8822.1	9748.9	10511.2	10615.3	11414.6	11868.0	10017.6
40°	8147.0	8190.7	8499.7	8936.2	9332.5	10185.5	10860.5	10894.1	11545.6	12223.9	10353.4
42.5°	8516.5	8556.8	8862.3	9409.7	9940.3	10558.3	11169.4	11206.4	11535.5	12633.6	10887.4
45°	8899.3	8996.7	9356.0	9977.3	10454.1	10994.8	11240.0	11391.1	11629.5	12999.7	11320.6
47.5°	9436.6	9527.3	9822.8	10430.6	10988.1	11377.7	11565.7	11713.5	11854.5	13318.7	11599.3
50°	10007.5	10024.3	10383.6	10934.4	11344.1	11810.9	12173.6	12223.9	12150.0	13688.1	12072.8
52.5°	10427.3	10481.0	10759.7	11297.1	11908.3	12482.5	12979.5	13033.3	12888.9	13825.8	12234.0
55°	9732.1	9701.9	10155.3	10870.6	12287.7	13483.3	14205.3	14245.6	13426.2	14252.3	12761.2
57.5°	7522.4	7666.8	8053.0	8916.1	10917.6	13926.5	15152.3	15007.9	14071.0	14467.2	13097.1
60°	5467.2	5433.6	5692.2	6269.8	8227.6	12002.3	14326.2	14473.9	13543.7	13040.0	10800.0
62.5°	4453.0	4406.0	4426.1	4446.3	5309.4	7965.7	10605.3	10601.9	10430.6	9372.8	7284.0
65°	3559.7	3670.5	3680.6	3831.7	3942.6	4758.6	6145.5	6474.7	5638.5	4624.3	3354.9
67.5°	2683.2	2642.9	2777.3	3314.6	3522.8	3435.5	3354.9	3391.8	2411.2	1739.6	1638.8
70°	1581.7	1564.9	1726.1	2310.5	2901.5	2730.2	2528.7	2532.1	1655.6	1215.7	1353.4
72.5°	866.4	863.1	896.6	1172.0	1648.9	1712.7	1517.9	1564.9	987.3	984.0	1057.8
75°	483.6	473.5	463.4	517.2	594.4	628.0	641.4	648.1	678.4	759.0	789.2
77.5°	178.0	171.3	171.3	198.1	251.9	315.7	399.6	406.3	480.2	550.7	581.0
80°	60.4	67.2	90.7	124.3	167.9	225.0	272.0	278.7	339.2	386.2	396.3
82.5°	36.9	40.3	60.4	87.3	120.9	157.8	201.5	204.9	251.9	282.1	295.5
85°	16.8	20.1	33.6	53.7	77.2	104.1	107.5	107.5	104.1	107.5	100.7
87.5°	0.0	0.0	6.7	6.7	6.7	10.1	13.4	10.1	16.8	20.1	20.1
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°	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3	10155.3
2.5°	10064.6	10027.7	9913.5	9812.7	9782.5	9648.2	9450.0	9473.5	9329.1	9396.3	9325.8
5°	9926.9	9802.7	9510.5	9386.2	9060.5	8912.7	8812.0	8560.1	8442.6	8419.1	8318.3
7.5°	9574.3	9497.1	9131.0	8795.2	8449.3	8153.8	7774.3	7515.7	7331.0	7280.6	7132.9
10°	9295.6	9124.3	8617.2	8106.7	7613.1	7099.3	6605.6	6219.4	6031.4	5813.1	5739.2
12.5°	9020.2	8761.6	8076.5	7421.7	6783.6	6135.5	5537.7	5067.6	4657.9	4560.5	4526.9
15°	8848.9	8398.9	7592.9	6803.8	5897.0	5050.8	4453.0	4144.0	3892.2	3788.1	3862.0
17.5°	8623.9	8100.0	7129.5	6078.4	5081.0	4301.9	3801.5	3610.1	3519.4	3529.5	3499.3
20°	8341.8	7817.9	6521.7	5420.2	4352.3	3731.0	3445.5	3375.0	3388.4	3412.0	3401.9
22.5°	8140.3	7475.4	6081.7	4748.5	3761.2	3415.3	3297.8	3247.4	3291.1	3311.2	3294.4
25°	7985.9	7183.2	5547.8	4154.1	3418.7	3237.3	3183.6	3180.2	3247.4	3274.3	3257.5
27.5°	7844.8	6911.2	5017.2	3700.8	3190.3	3099.6	3082.8	3123.1	3166.8	3193.7	3217.2
30°	7760.9	6703.0	4520.2	3321.3	3076.1	3032.5	3002.3	3039.2	3062.7	3089.6	3076.1
32.5°	7841.5	6555.3	4039.9	3106.4	2982.1	2938.4	2978.7	2955.2	2995.5	3019.0	2982.1
35°	8093.3	6424.3	3697.4	2992.2	2874.6	2891.4	2898.1	2888.1	2904.9	2884.7	2928.4
37.5°	8341.8	6377.3	3381.7	2894.8	2824.3	2824.3	2817.5	2797.4	2831.0	2824.3	2844.4
40°	8657.5	6407.5	3113.1	2790.7	2777.3	2770.5	2743.7	2740.3	2726.9	2730.2	2737.0
42.5°	8932.9	6474.7	2958.6	2723.5	2733.6	2747.0	2696.7	2656.4	2673.1	2639.6	2639.6
45°	9225.0	6535.1	2820.9	2676.5	2666.4	2663.1	2622.8	2599.3	2585.8	2589.2	2619.4
47.5°	9685.1	6622.4	2716.8	2612.7	2619.4	2569.0	2559.0	2528.7	2542.2	2562.3	2565.7
50°	10010.9	6807.1	2636.2	2538.8	2562.3	2528.7	2468.3	2454.9	2454.9	2488.4	2481.7
52.5°	10239.2	7065.7	2559.0	2458.2	2468.3	2441.4	2421.3	2391.1	2370.9	2417.9	2441.4
55°	10937.7	7495.6	2538.8	2391.1	2387.7	2360.8	2323.9	2293.7	2283.6	2290.3	2337.3
57.5°	10870.6	7361.2	2475.0	2273.5	2266.8	2229.9	2192.9	2182.8	2179.5	2186.2	2199.6
60°	8825.4	5437.0	2209.7	2139.2	2129.1	2122.4	2085.5	2045.2	2025.0	2045.2	2028.4
62.5°	5839.9	3640.3	1947.8	1978.0	1984.7	1967.9	1907.5	1867.2	1873.9	1897.4	1860.5
65°	2867.9	2139.2	1766.4	1847.0	1853.7	1806.7	1749.6	1702.6	1679.1	1699.3	1682.5
67.5°	1638.8	1635.5	1618.7	1702.6	1699.3	1652.2	1561.6	1521.3	1481.0	1487.7	1477.6
70°	1390.3	1417.2	1450.8	1501.1	1497.8	1444.0	1336.6	1306.3	1249.3	1242.5	1225.8
72.5°	1094.8	1141.8	1215.7	1252.6	1222.4	1155.2	1084.7	1034.3	984.0	953.7	963.8
75°	812.7	879.9	920.2	943.7	896.6	859.7	802.6	742.2	681.7	654.9	644.8
77.5°	591.0	611.2	648.1	664.9	634.7	597.8	564.2	503.7	446.6	409.7	399.6
80°	413.1	426.5	453.4	453.4	453.4	436.6	392.9	332.5	295.5	261.9	255.2
82.5°	288.8	302.2	329.1	315.7	312.3	292.2	265.3	218.3	178.0	154.5	147.8
85°	100.7	110.8	134.3	161.2	171.3	167.9	151.1	120.9	94.0	77.2	70.5
87.5°	23.5	23.5	26.9	23.5	23.5	26.9	23.5	23.5	23.5	16.8	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

(END OF REPORT)