

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: P455925

Luminaire Tested: **GALN-SA7A-827-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23220 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

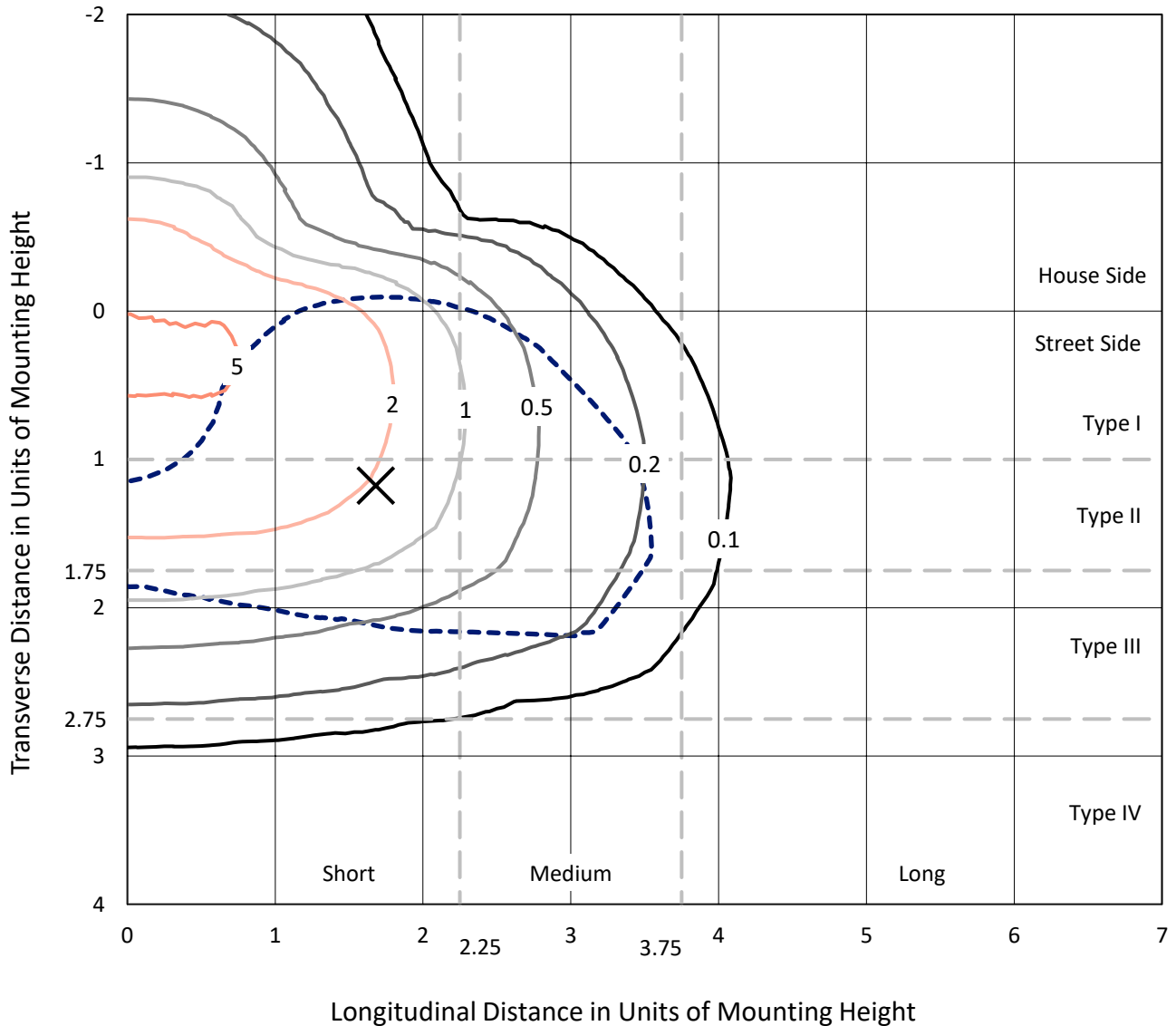
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

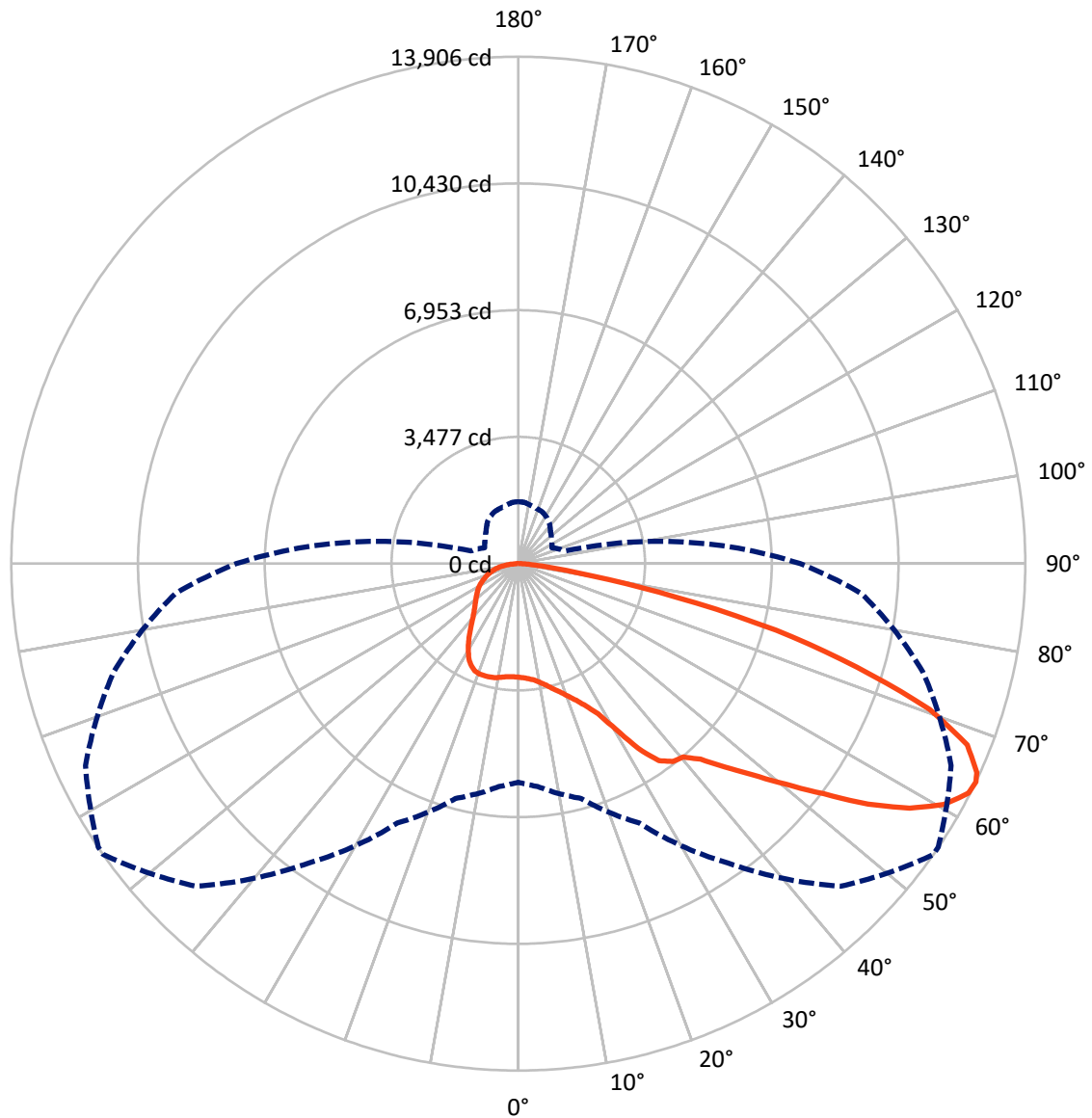
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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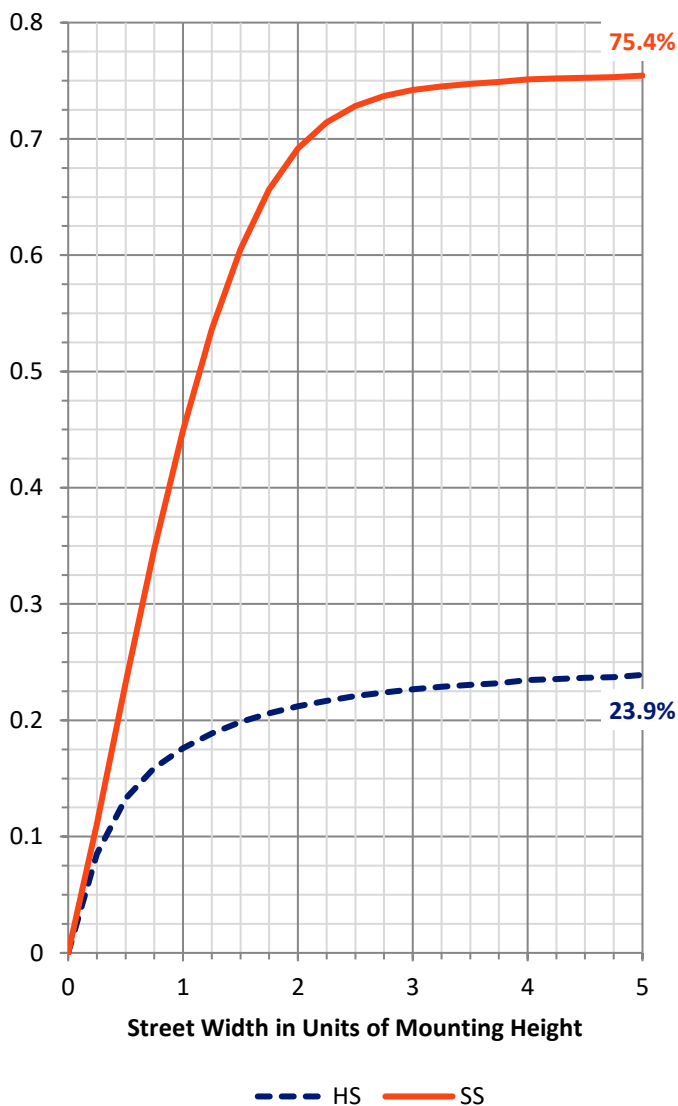
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5640.6	0.0	5640.6
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	17579.4	0.0	17579.4
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	23220.0	0.0	23220.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.0	1.3
10°-20°	956.2	4.1
20°-30°	1702.3	7.3
30°-40°	2619.2	11.3
40°-50°	3712.9	16.0
50°-60°	5374.3	23.1
60°-70°	5561.8	24.0
70°-80°	2604.6	11.2
80°-90°	385.6	1.7
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°	23220.0	100.0
0°-180°	23220.0	100.0

**Coefficient of Utilization**



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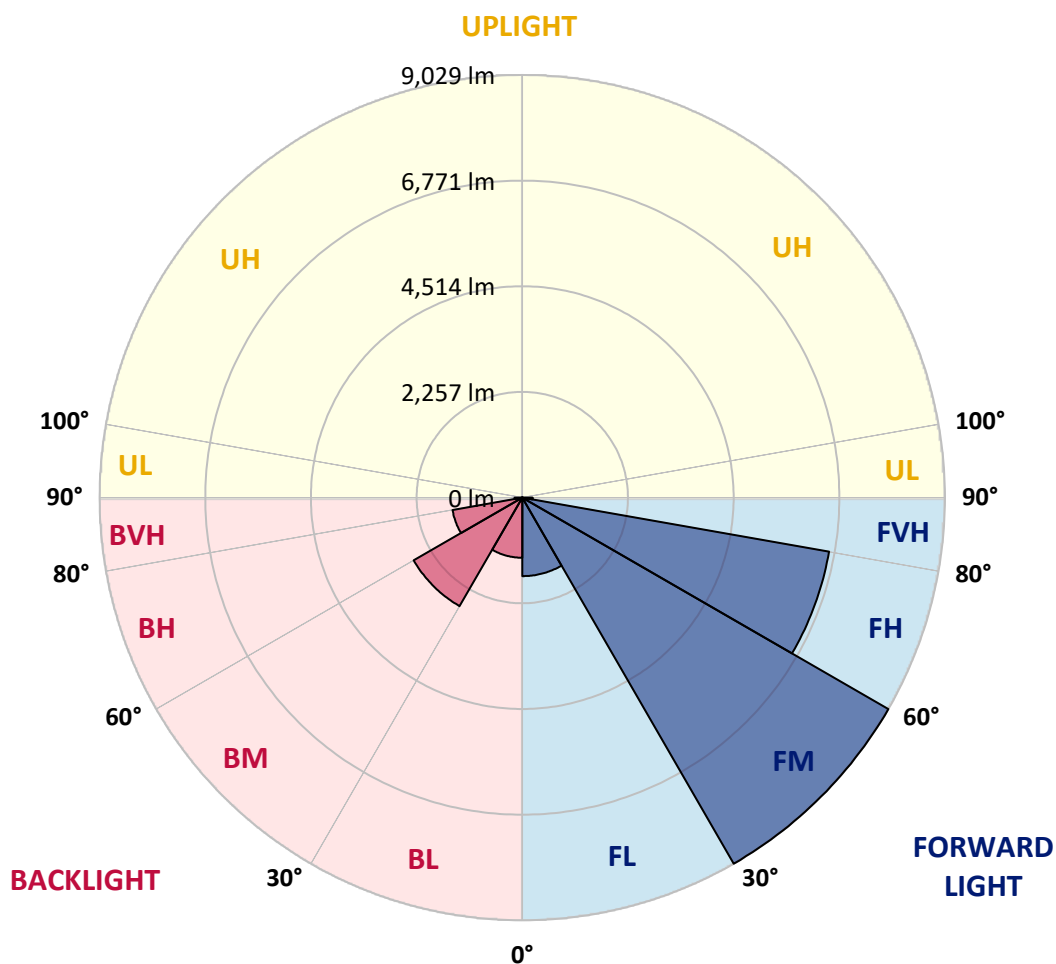
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1676.9	7.2			
FM	(30°-60°)	9028.6	38.9			
FH	(60°-80°)	6653.2	28.7			G3/7500
FVH	(80°-90°)	220.8	1.0			G2/225
BL	(0°-30°)	1284.7	5.5	B3/2500		
BM	(30°-60°)	2677.8	11.5	B3/5000		
BH	(60°-80°)	1513.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	164.8	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4
2.5°	3150.4	3149.1	3153.0	3149.1	3151.7	3142.6	3138.7	3141.3	3137.4	3131.0	3119.3
5°	3189.2	3187.9	3189.2	3184.0	3186.6	3181.4	3172.4	3175.0	3168.5	3154.3	3137.4
7.5°	3255.2	3250.0	3250.0	3248.7	3243.6	3235.8	3229.3	3226.7	3220.3	3202.1	3176.3
10°	3340.6	3340.6	3341.9	3331.6	3338.0	3323.8	3317.3	3316.0	3294.0	3270.7	3234.5
12.5°	3453.2	3459.7	3455.8	3450.7	3448.1	3442.9	3420.9	3426.1	3401.5	3361.3	3317.3
15°	3593.0	3603.4	3596.9	3594.3	3587.8	3568.4	3559.4	3555.5	3523.1	3464.9	3406.6
17.5°	3778.1	3765.2	3760.0	3753.5	3726.3	3712.1	3696.6	3694.0	3665.5	3596.9	3506.3
20°	3939.9	3958.0	3947.7	3941.2	3914.0	3886.8	3875.2	3871.3	3846.7	3771.6	3626.7
22.5°	4132.8	4136.6	4140.5	4125.0	4112.0	4091.3	4070.6	4064.2	4055.1	3977.4	3800.1
25°	4338.6	4354.1	4341.1	4325.6	4310.1	4308.8	4328.2	4325.6	4321.7	4246.7	4030.5
27.5°	4673.8	4688.0	4691.9	4675.1	4615.5	4620.7	4664.7	4679.0	4738.5	4614.2	4326.9
30°	4862.8	4877.0	4909.3	4972.8	5067.3	5150.1	5256.2	5288.6	5345.5	5111.3	4679.0
32.5°	4979.2	4984.4	5042.7	5160.4	5443.9	5753.2	6041.9	6053.5	6089.8	5761.0	5001.2
35°	5163.0	5166.9	5213.5	5342.9	5675.6	6190.7	6637.3	6651.5	6621.7	5962.9	5151.4
37.5°	5389.5	5399.9	5429.7	5537.1	5934.4	6557.0	6884.5	6874.1	6610.1	6123.4	5416.7
40°	5719.6	5719.6	5684.6	5829.6	6207.5	6766.7	6971.2	6953.1	6883.2	6588.1	5820.5
42.5°	6010.8	6005.6	6088.5	6186.8	6549.2	7090.3	7334.9	7364.7	7479.9	7171.8	6280.0
45°	6390.0	6413.3	6459.9	6638.6	7130.4	7642.9	7958.8	7987.2	8150.3	7859.1	6817.2
47.5°	6773.2	6780.9	6927.2	7165.3	7850.0	8392.4	8651.2	8697.8	8846.7	8662.9	7395.7
50°	7045.0	7118.7	7353.0	7728.4	8591.7	9306.1	9508.1	9563.7	9826.5	9537.8	8070.1
52.5°	7332.3	7404.8	7690.8	8262.9	9443.3	10240.6	10489.2	10526.7	10799.8	10423.1	8759.9
55°	7578.2	7645.5	7970.4	8736.6	10121.6	11194.6	11645.0	11601.0	11731.7	11105.2	9291.9
57.5°	7618.4	7672.7	8081.7	9039.5	10631.5	12012.6	12658.4	12684.3	12532.9	11615.2	9730.7
60°	7307.7	7419.0	7888.9	9007.2	10860.6	12582.1	13414.3	13432.4	13002.7	11876.7	9905.4
62.5°	6757.6	6746.0	7314.2	8486.8	10539.6	12711.5	13859.6	13840.1	13186.5	11751.1	9735.9
64°	5997.9	6137.7	6668.3	7847.4	10021.9	12512.2	13906.2	13895.8	13098.5	11489.7	9447.2
65°	5534.5	5526.7	6050.9	7324.5	9506.8	12211.9	13823.3	13809.1	12914.7	11255.4	9223.3
67.5°	3995.6	4013.7	4531.4	5652.3	7728.4	11037.9	13283.6	13230.5	12189.9	10478.8	8371.6
70°	2420.4	2430.7	2837.1	3749.6	5547.4	8923.0	11973.7	11976.3	11080.7	9319.1	7125.2
72.5°	1274.9	1302.1	1465.2	2129.2	3369.1	6260.6	9713.9	9944.2	9513.2	7953.6	5629.0
75°	709.3	713.2	828.4	1049.7	1718.9	3503.7	7301.2	7367.3	7531.6	6401.7	4162.5
77.5°	541.0	548.8	585.0	678.2	935.8	1624.4	4418.8	4750.1	5308.0	4513.3	2375.1
80°	438.8	446.5	477.6	533.3	622.6	770.1	2052.8	2231.4	2841.0	2003.6	926.7
82.5°	341.7	336.5	376.6	412.9	453.0	455.6	842.6	931.9	1157.1	862.0	401.2
85°	253.7	253.7	286.0	278.3	292.5	266.6	371.5	410.3	463.4	366.3	186.4
87.5°	101.0	111.3	187.7	168.3	130.7	104.8	137.2	145.0	160.5	143.7	77.7
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°	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4	3115.4
2.5°	3120.6	3124.5	3115.4	3109.0	3106.4	3102.5	3098.6	3099.9	3105.1	3110.2	3109.0
5°	3136.1	3137.4	3121.9	3114.1	3109.0	3103.8	3103.8	3107.7	3118.0	3125.8	3125.8
7.5°	3175.0	3175.0	3153.0	3138.7	3131.0	3121.9	3119.3	3120.6	3128.4	3138.7	3140.0
10°	3235.8	3230.6	3202.1	3180.1	3165.9	3143.9	3124.5	3114.1	3118.0	3124.5	3124.5
12.5°	3309.6	3295.3	3259.1	3229.3	3194.4	3153.0	3112.8	3092.1	3090.8	3097.3	3094.7
15°	3388.5	3373.0	3322.5	3268.2	3207.3	3146.5	3098.6	3068.8	3045.5	3039.1	3053.3
17.5°	3480.4	3448.1	3378.2	3303.1	3212.5	3133.5	3058.5	2997.6	2956.2	2944.6	2948.5
20°	3591.7	3549.0	3454.5	3336.8	3208.6	3086.9	2970.5	2888.9	2821.6	2800.9	2803.5
22.5°	3745.8	3672.0	3533.5	3353.6	3176.3	2998.9	2837.1	2731.0	2649.5	2617.1	2636.5
25°	3920.5	3840.2	3608.6	3349.7	3092.1	2857.9	2679.2	2540.7	2467.0	2419.1	2429.4
27.5°	4161.2	4018.9	3688.8	3314.7	2971.8	2685.7	2478.6	2347.9	2280.6	2256.0	2267.6
30°	4469.3	4250.5	3775.5	3220.3	2781.5	2468.3	2276.7	2191.3	2151.2	2120.1	2130.4
32.5°	4691.9	4413.6	3794.9	3061.1	2575.7	2270.2	2139.5	2076.1	2032.1	2002.3	2008.8
35°	4851.1	4552.1	3785.9	2865.6	2360.8	2107.1	2030.8	1979.0	1907.8	1843.1	1831.5
37.5°	5064.7	4725.6	3719.9	2652.1	2148.6	1997.1	1942.8	1847.0	1744.7	1658.0	1654.1
40°	5392.1	4928.8	3578.8	2401.0	1967.4	1915.6	1849.6	1725.3	1615.3	1545.4	1540.2
42.5°	5729.9	5116.4	3387.2	2136.9	1818.5	1830.2	1749.9	1627.0	1559.7	1514.4	1509.2
45°	6142.8	5319.6	3180.1	1907.8	1708.5	1749.9	1663.2	1592.0	1551.9	1522.1	1514.4
47.5°	6589.4	5528.0	2947.2	1702.0	1615.3	1676.1	1627.0	1594.6	1572.6	1551.9	1542.8
50°	7070.9	5761.0	2728.4	1536.4	1531.2	1599.8	1623.1	1611.4	1598.5	1592.0	1584.2
52.5°	7598.9	5999.2	2544.6	1419.9	1457.4	1545.4	1624.4	1633.4	1633.4	1629.5	1624.4
55°	7956.2	6164.8	2358.2	1325.4	1382.3	1501.4	1621.8	1656.7	1669.7	1664.5	1659.3
57.5°	8220.2	6255.4	2124.0	1243.8	1318.9	1458.7	1607.5	1659.3	1672.3	1678.7	1676.1
60°	8274.6	6171.3	1817.2	1158.4	1250.3	1396.6	1555.8	1620.5	1637.3	1677.4	1681.3
62.5°	8029.9	5912.4	1511.8	1074.3	1166.2	1302.1	1485.9	1576.5	1610.1	1672.3	1678.7
64°	7729.7	5622.5	1342.2	1021.2	1111.8	1249.0	1450.9	1564.8	1608.8	1691.7	1696.9
65°	7509.6	5411.5	1236.1	987.6	1076.9	1214.1	1431.5	1568.7	1620.5	1721.4	1729.2
67.5°	6699.4	4685.4	1022.5	908.6	994.0	1154.5	1435.4	1601.1	1617.9	1733.1	1731.8
70°	5543.6	3730.2	856.8	836.1	913.8	1106.6	1419.9	1549.3	1550.6	1627.0	1608.8
72.5°	4150.9	2756.9	742.9	761.1	824.5	992.7	1340.9	1479.4	1457.4	1467.8	1449.6
75°	2851.4	1823.7	639.4	680.8	731.3	877.5	1229.6	1343.5	1308.6	1295.6	1282.7
77.5°	1522.1	1008.3	532.0	601.9	635.5	758.5	1073.0	1183.0	1146.8	1096.3	1079.5
80°	616.1	475.0	428.4	498.3	517.7	610.9	893.1	961.7	934.5	846.5	818.0
82.5°	309.3	284.7	336.5	392.2	393.5	436.2	664.0	728.7	667.9	560.4	535.8
85°	161.8	167.0	231.7	275.7	243.3	235.6	398.6	441.4	405.1	352.1	317.1
87.5°	58.2	67.3	121.7	120.4	85.4	45.3	88.0	42.7	23.3	14.2	18.1
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)