

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: P455025

Luminaire Tested: **GALN-SA6A-830-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15821 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

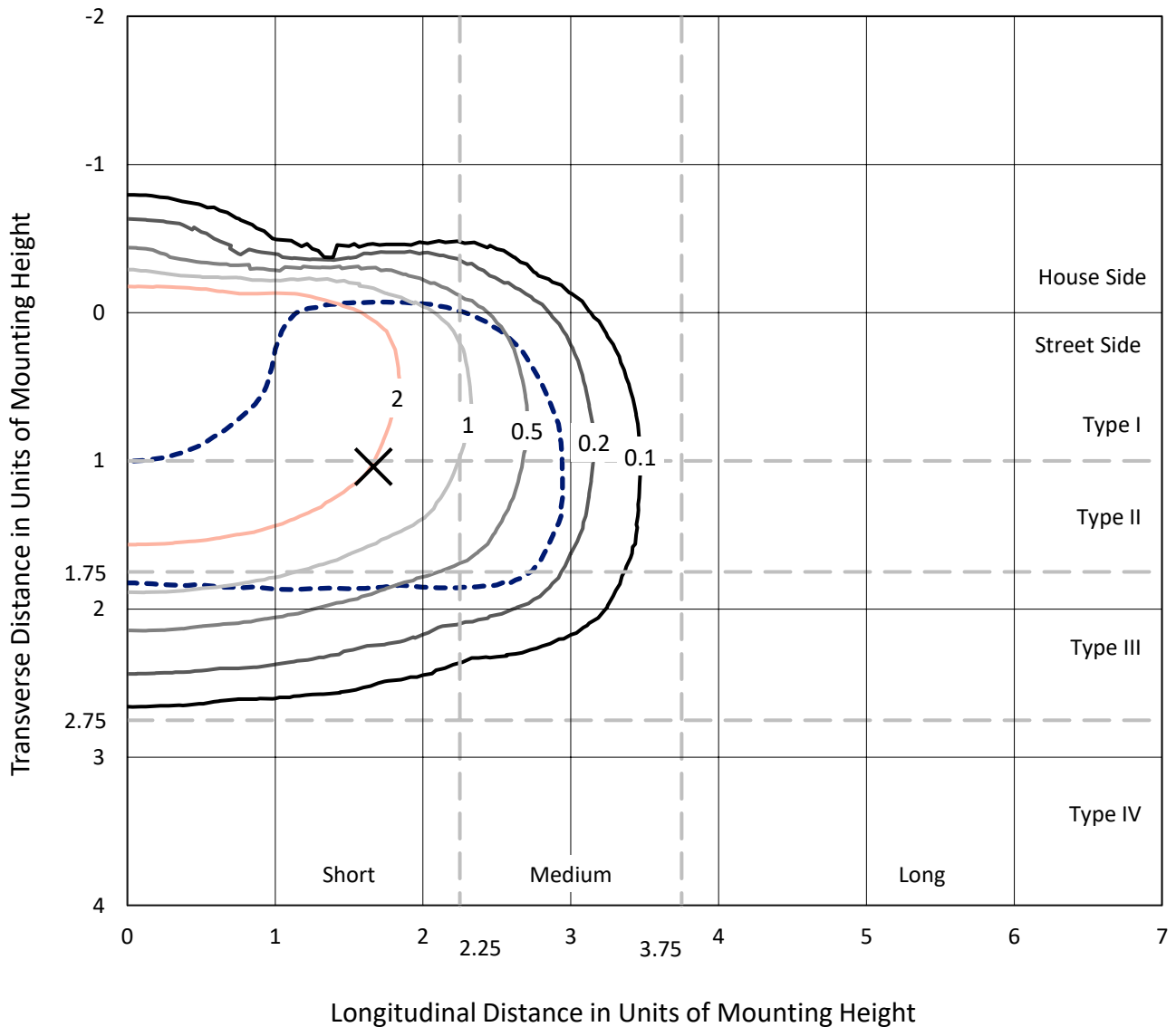
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

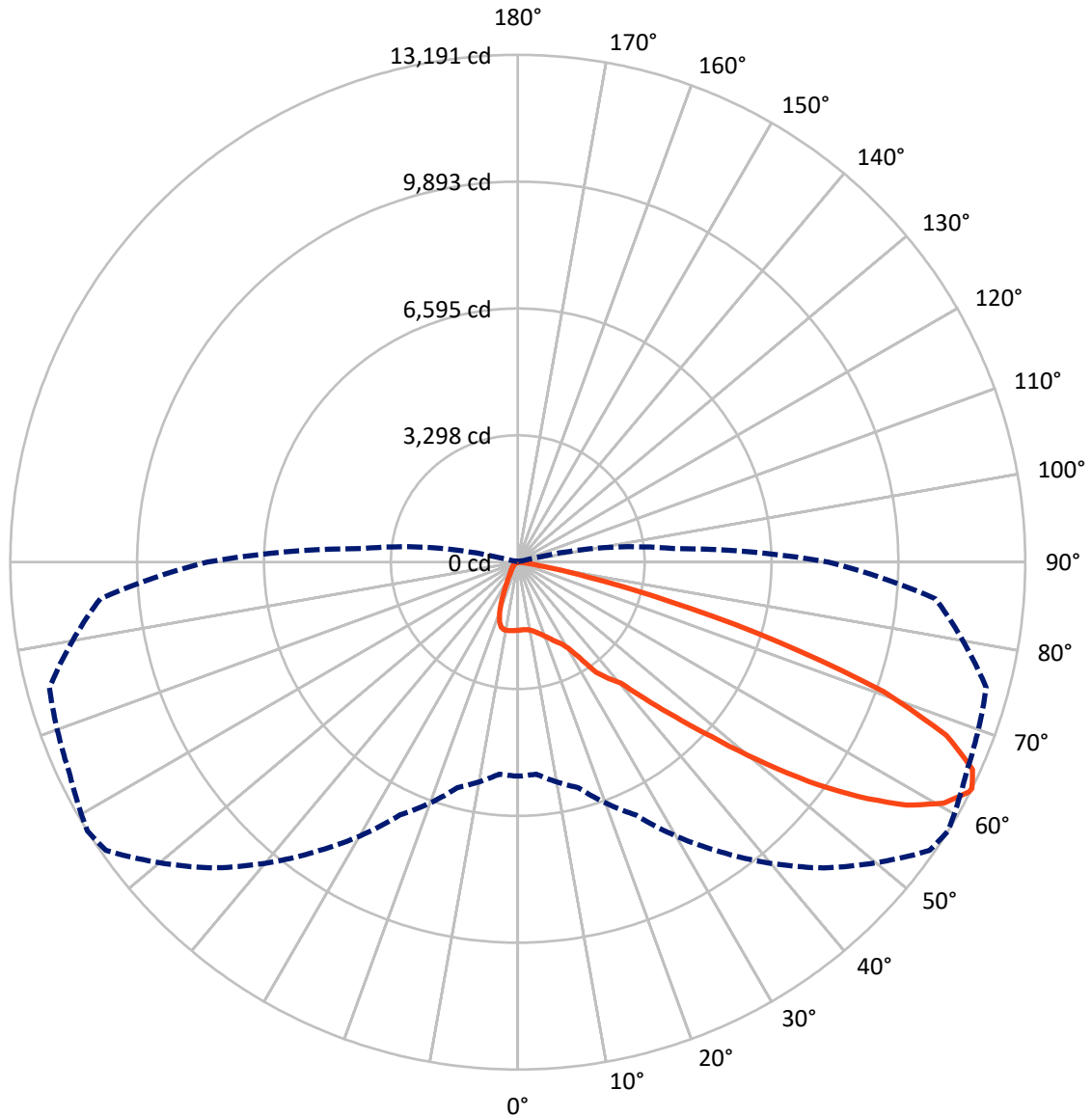
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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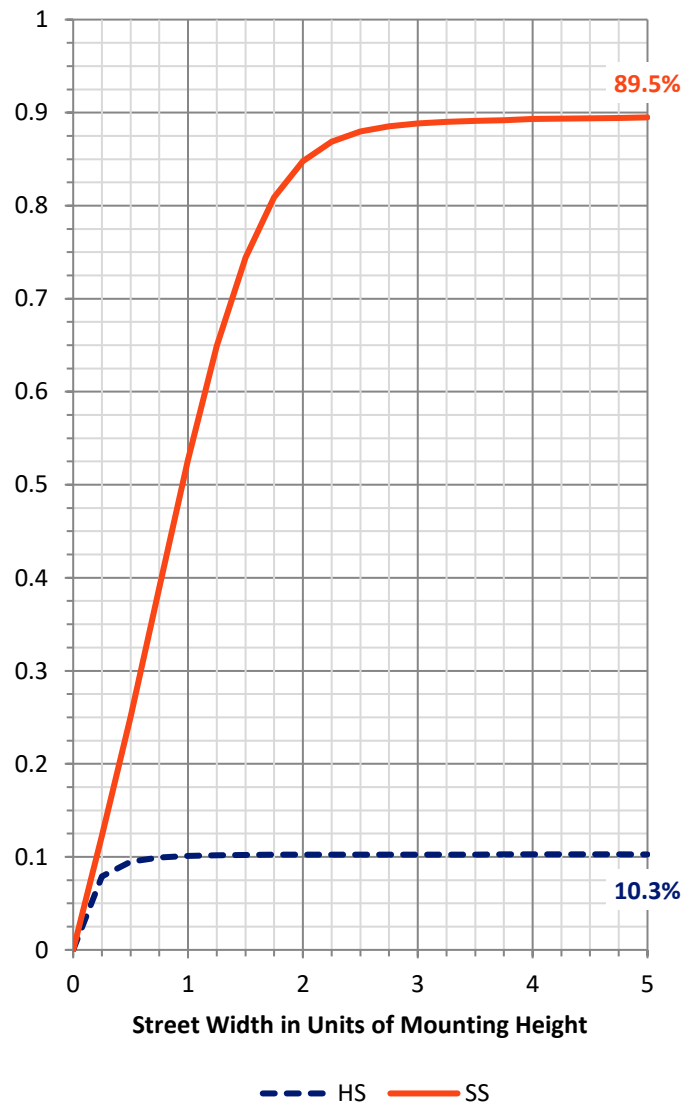
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1638.2	0.0	1638.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	14182.8	0.0	14182.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	15821.0	0.0	15821.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.8	1.0
10°-20°	451.6	2.9
20°-30°	783.8	5.0
30°-40°	1440.3	9.1
40°-50°	2711.3	17.1
50°-60°	4637.5	29.3
60°-70°	4440.4	28.1
70°-80°	1132.3	7.2
80°-90°	57.9	0.4
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°	15821.0	100.0
0°-180°	15821.0	100.0



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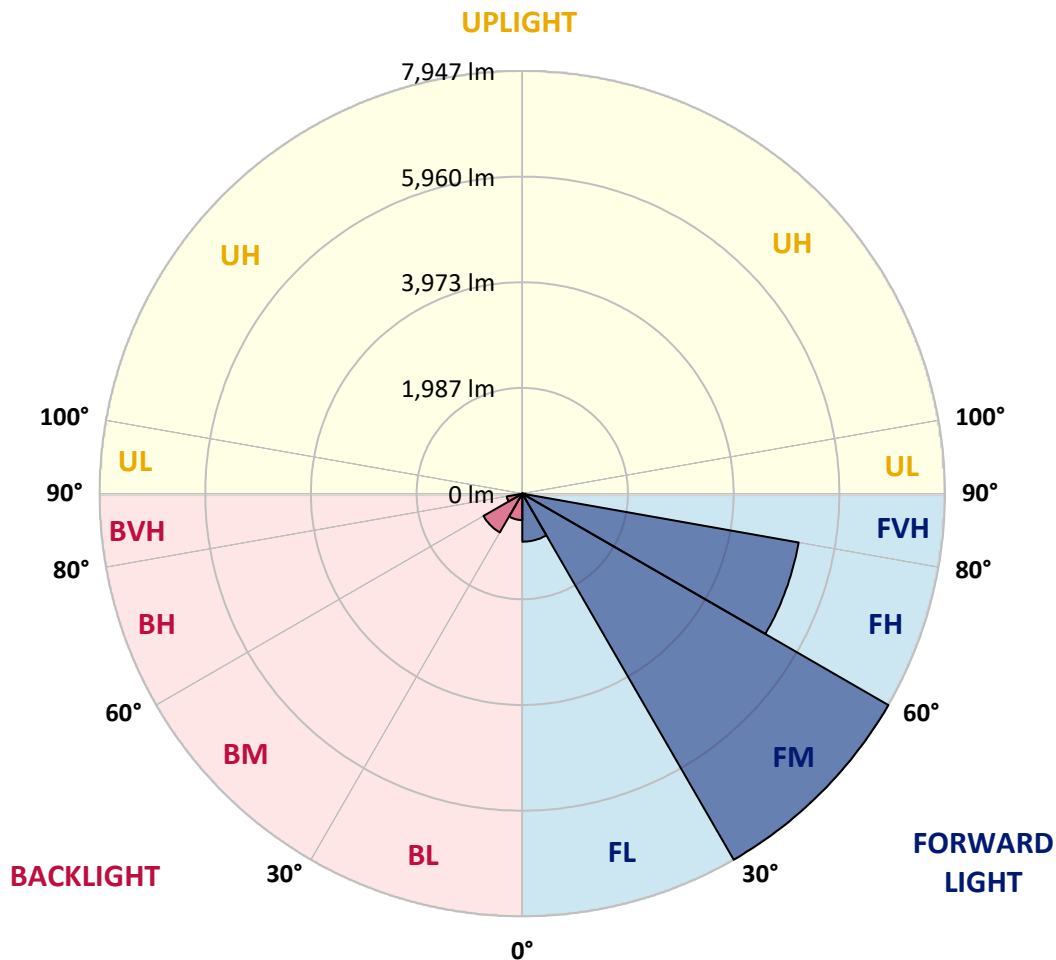
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.4	5.7			
FM (30°-60°)	7946.6	50.2			
FH (60°-80°)	5276.2	33.3			G3/7500
FVH (80°-90°)	55.7	0.4			G1/100
BL (0°-30°)	496.8	3.1	B1/500		
BM (30°-60°)	842.6	5.3	B1/1000		
BH (60°-80°)	296.5	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2
2.5°	1727.2	1733.1	1739.1	1741.4	1749.8	1758.1	1764.1	1762.9	1772.4	1777.2	1777.2
5°	1658.1	1658.1	1673.5	1687.8	1711.7	1735.5	1758.1	1762.9	1780.8	1797.4	1803.4
7.5°	1599.7	1603.3	1615.2	1641.4	1673.5	1715.2	1760.5	1771.2	1802.2	1839.1	1854.6
10°	1572.3	1574.7	1590.2	1617.6	1658.1	1715.2	1778.4	1798.6	1846.3	1904.6	1926.1
12.5°	1566.3	1569.9	1585.4	1616.4	1662.8	1731.9	1817.7	1839.1	1908.2	1983.2	2015.4
15°	1577.1	1579.4	1594.9	1628.3	1679.5	1761.7	1870.1	1899.9	1982.1	2069.0	2110.7
17.5°	1615.2	1612.8	1623.5	1650.9	1708.1	1798.6	1933.2	1969.0	2065.4	2184.5	2211.9
20°	1777.2	1761.7	1752.2	1728.3	1751.0	1851.0	2009.4	2061.9	2181.0	2302.5	2321.5
22.5°	2126.2	2091.6	2023.7	1930.8	1859.4	1922.5	2101.2	2161.9	2315.6	2434.7	2434.7
25°	2570.5	2526.4	2458.5	2256.0	2080.9	2040.4	2204.8	2281.0	2462.1	2582.4	2543.1
27.5°	3126.7	3092.2	2960.0	2724.1	2456.1	2246.5	2325.1	2395.4	2591.9	2737.2	2655.0
30°	3579.4	3562.7	3454.3	3243.5	2948.1	2641.9	2549.0	2595.5	2764.6	2932.6	2848.0
32.5°	3961.7	3961.7	3850.9	3654.4	3378.1	3106.5	2929.0	2962.4	3124.4	3318.5	3161.3
35°	4382.2	4367.9	4278.6	4091.6	3781.9	3542.4	3469.8	3515.0	3661.6	3805.7	3418.6
37.5°	4824.1	4819.3	4726.4	4545.4	4292.9	3991.5	3821.2	3833.1	3908.1	3996.3	3719.9
40°	5304.1	5311.3	5189.8	5077.8	4839.6	4531.1	4204.7	4129.7	4200.0	4448.9	4276.2
42.5°	5871.1	5854.4	5802.0	5649.6	5457.8	5273.2	4881.3	4853.9	4915.8	5182.6	4995.6
45°	6529.8	6553.6	6463.1	6378.5	6249.9	6096.2	5768.7	5721.0	5788.9	6203.4	5937.8
47.5°	7189.7	7167.1	7225.4	7210.0	7279.0	7164.7	6875.2	6777.6	6940.8	7333.8	6943.1
50°	7692.4	7717.4	7838.9	8016.4	8313.0	8377.3	8099.7	8066.4	8139.0	8391.6	7842.5
52.5°	8018.7	8102.1	8292.7	8748.9	9283.7	9699.4	9488.6	9470.7	9441.0	9508.9	8702.5
55°	8232.0	8316.5	8565.5	9237.3	10158.0	10833.4	10844.1	10767.9	10571.3	10522.5	9506.5
57.5°	8100.9	8117.6	8472.6	9370.7	10642.8	11642.2	11992.4	11916.1	11552.8	11368.2	10216.4
60°	7281.4	7316.0	7810.3	8865.6	10432.0	11906.6	12753.5	12719.0	12321.1	12112.7	10769.1
62.5°	5829.4	5929.5	6438.1	7614.9	9451.7	11461.1	13062.0	13159.7	12850.0	12562.9	10943.0
63°	5562.6	5530.5	6067.7	7250.5	9192.0	11240.8	13066.8	13190.7	12873.8	12605.8	10895.3
65°	4117.8	4214.2	4563.2	5717.5	7649.5	10215.2	12772.6	12991.7	12785.7	12416.4	10367.7
67.5°	2312.0	2307.2	2693.2	3741.4	5354.2	8012.8	11549.3	12012.6	11969.7	11141.9	8594.1
70°	1131.6	1149.4	1307.9	1939.2	3105.3	5528.1	9597.0	10097.3	10112.8	8751.3	5942.6
72.5°	512.2	520.5	633.7	944.6	1596.1	2943.3	6613.2	7090.8	7002.7	5576.9	3281.6
75°	270.4	288.3	349.0	475.3	769.5	1213.8	3597.2	4059.4	3874.8	2547.8	1207.8
77.5°	200.1	206.1	237.0	302.5	412.1	472.9	1552.1	1846.3	1729.5	921.9	400.2
80°	146.5	151.3	176.3	214.4	259.7	240.6	584.8	670.6	601.5	313.3	122.7
82.5°	89.3	90.5	128.6	159.6	163.2	134.6	193.0	207.3	216.8	176.3	66.7
85°	32.2	40.5	87.0	115.5	96.5	67.9	81.0	89.3	97.7	112.0	39.3
87.5°	3.6	4.8	41.7	56.0	27.4	25.0	29.8	33.4	35.7	41.7	19.1
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°	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2
2.5°	1781.9	1786.7	1783.1	1777.2	1776.0	1772.4	1765.3	1765.3	1765.3	1767.6	1765.3
5°	1808.1	1811.7	1803.4	1791.5	1778.4	1761.7	1743.8	1733.1	1731.9	1729.5	1723.6
7.5°	1858.2	1862.9	1843.9	1815.3	1779.6	1739.1	1700.9	1665.2	1648.5	1635.4	1635.4
10°	1930.8	1935.6	1897.5	1846.3	1774.8	1692.6	1602.1	1519.9	1455.6	1425.8	1418.6
12.5°	2017.8	2020.2	1957.0	1867.7	1749.8	1591.4	1398.4	1218.5	1093.5	1036.3	1030.3
15°	2113.1	2096.4	2013.0	1876.0	1678.3	1382.9	1049.4	829.0	699.2	661.1	675.4
17.5°	2209.6	2178.6	2055.9	1862.9	1517.5	1049.4	705.2	565.8	525.3	514.6	514.6
20°	2300.1	2257.2	2086.9	1805.8	1238.8	723.0	522.9	489.6	482.4	475.3	476.5
22.5°	2390.6	2325.1	2114.3	1678.3	923.1	517.0	468.1	457.4	447.9	438.3	437.1
25°	2478.8	2388.2	2125.0	1442.5	628.9	444.3	427.6	413.3	394.3	383.5	381.2
27.5°	2570.5	2464.5	2117.8	1144.7	458.6	397.8	381.2	360.9	338.3	319.2	319.2
30°	2746.8	2609.8	2092.8	823.1	385.9	350.2	328.8	296.6	271.6	252.5	251.3
32.5°	2987.4	2799.2	2007.1	578.9	343.0	308.5	276.3	240.6	214.4	200.1	200.1
35°	3201.8	2989.8	1846.3	426.4	308.5	268.0	228.7	194.2	173.9	164.4	160.8
37.5°	3528.2	3268.5	1624.7	346.6	275.2	232.3	191.8	159.6	142.9	135.8	135.8
40°	4017.7	3609.1	1353.1	303.7	243.0	197.7	159.6	134.6	121.5	113.2	113.2
42.5°	4625.2	4026.0	1078.0	272.8	213.2	170.3	133.4	114.3	102.4	96.5	95.3
45°	5389.9	4465.6	830.2	244.2	189.4	145.3	113.2	96.5	84.6	81.0	82.2
47.5°	6188.0	4852.7	643.2	219.2	164.4	122.7	96.5	83.4	75.0	70.3	70.3
50°	6869.3	5119.5	488.4	190.6	145.3	103.6	84.6	75.0	67.9	65.5	64.3
52.5°	7438.7	5196.9	374.0	165.6	127.5	89.3	75.0	67.9	61.9	58.4	58.4
55°	7923.4	5129.0	293.0	139.4	107.2	77.4	66.7	60.7	53.6	50.0	48.8
57.5°	8206.9	4911.1	223.9	115.5	87.0	64.3	58.4	51.2	42.9	36.9	36.9
60°	8349.9	4594.2	171.5	95.3	66.7	51.2	47.6	38.1	29.8	25.0	23.8
62.5°	8178.4	4173.7	129.8	75.0	50.0	38.1	32.2	27.4	19.1	14.3	14.3
63°	8072.3	4052.3	125.1	71.5	46.5	35.7	29.8	25.0	16.7	13.1	11.9
65°	7358.9	3522.2	102.4	57.2	36.9	25.0	20.2	17.9	11.9	6.0	4.8
67.5°	5843.7	2694.4	81.0	42.9	26.2	17.9	11.9	10.7	3.6	0.0	0.0
70°	3951.0	1740.3	63.1	31.0	17.9	10.7	6.0	4.8	1.2	0.0	0.0
72.5°	2060.7	892.2	48.8	22.6	10.7	7.1	3.6	1.2	0.0	0.0	0.0
75°	729.0	303.7	35.7	14.3	7.1	3.6	1.2	0.0	0.0	0.0	0.0
77.5°	220.4	113.2	22.6	10.7	4.8	2.4	0.0	0.0	0.0	0.0	0.0
80°	77.4	41.7	13.1	7.1	3.6	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	38.1	20.2	8.3	6.0	3.6	1.2	0.0	0.0	0.0	0.0	0.0
85°	21.4	13.1	7.1	6.0	3.6	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	9.5	7.1	6.0	4.8	2.4	1.2	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)