

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: P452672

Luminaire Tested: **GALN-SA3C-827-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11534 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

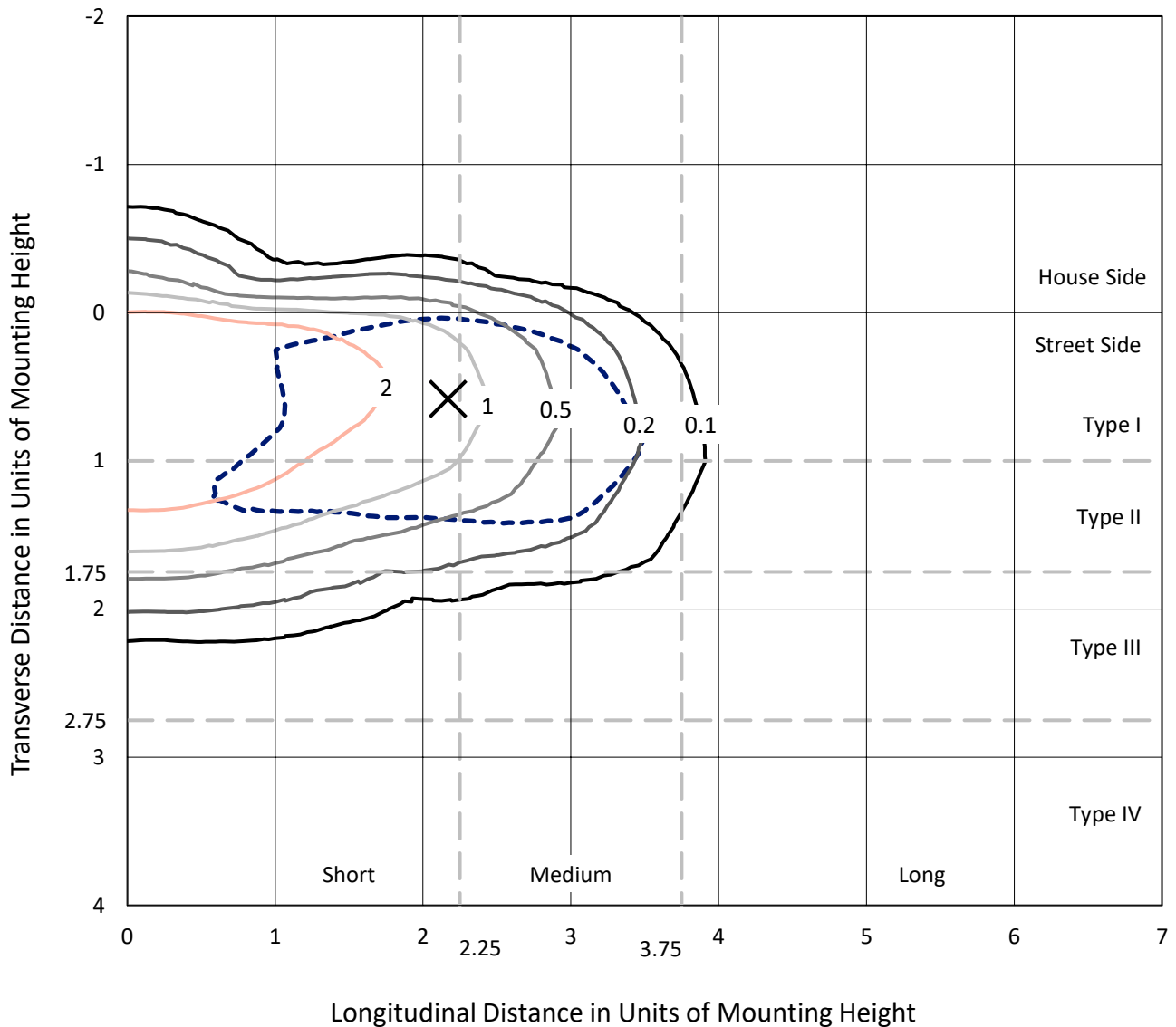
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

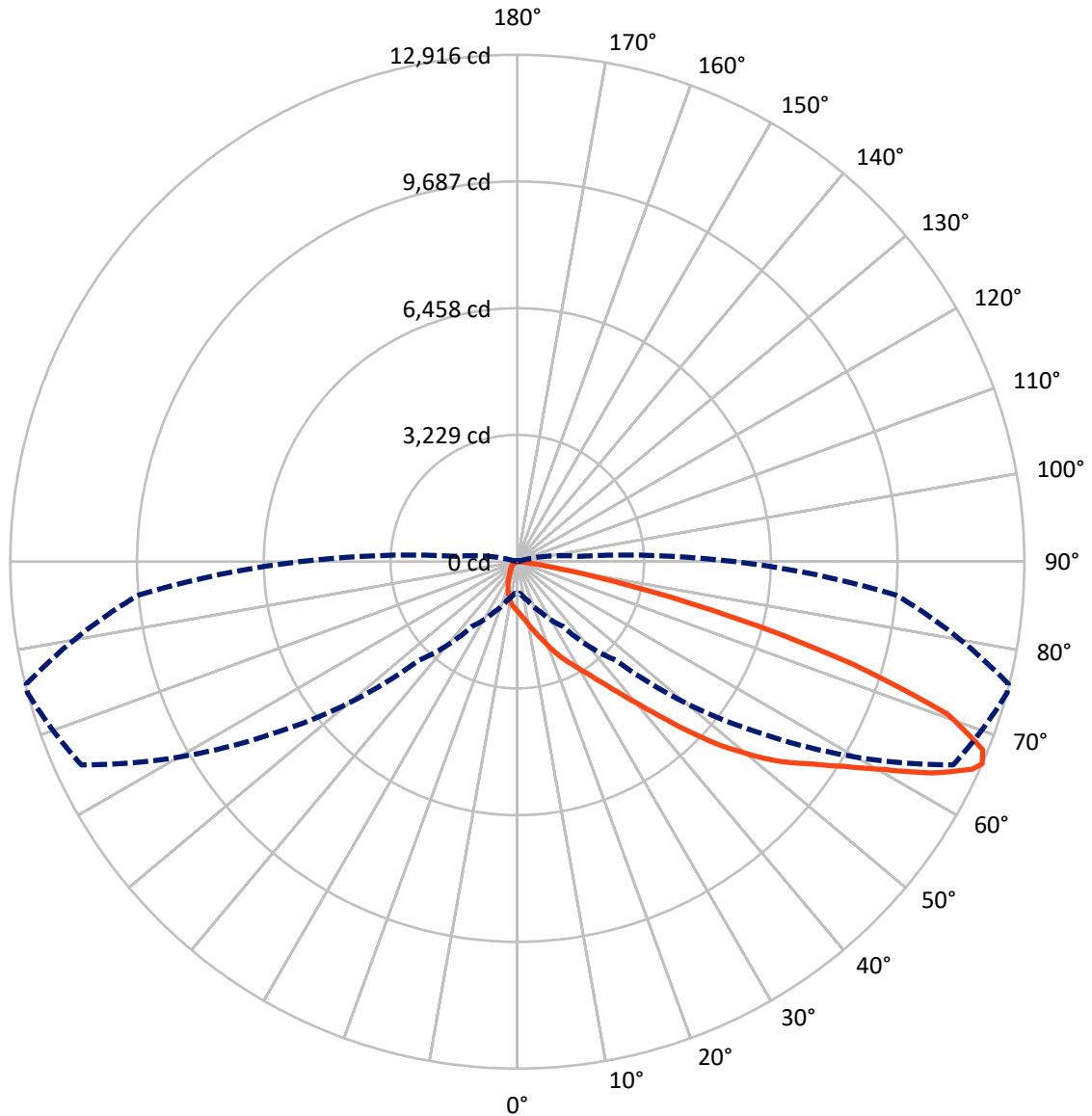
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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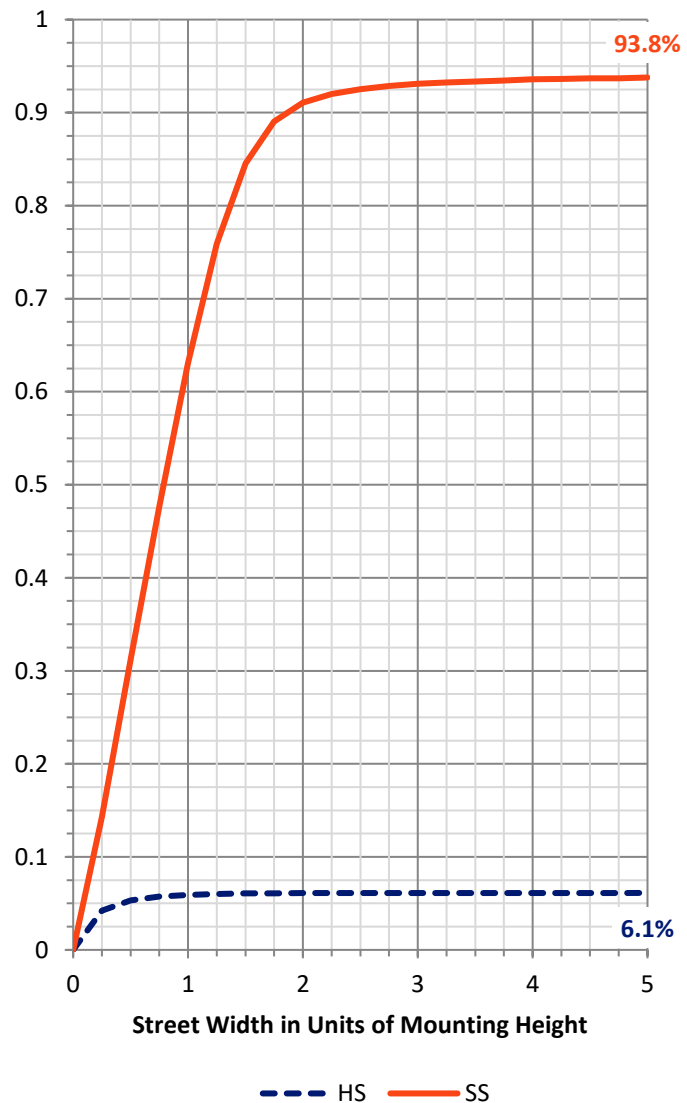
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	712.1	0.0	712.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	10821.9	0.0	10821.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	11534.0	0.0	11534.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	1.1
10°-20°	358.1	3.1
20°-30°	618.3	5.4
30°-40°	1115.2	9.7
40°-50°	2014.7	17.5
50°-60°	3141.0	27.2
60°-70°	2983.8	25.9
70°-80°	1118.2	9.7
80°-90°	63.1	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°	11534.0	100.0
0°-180°	11534.0	100.0



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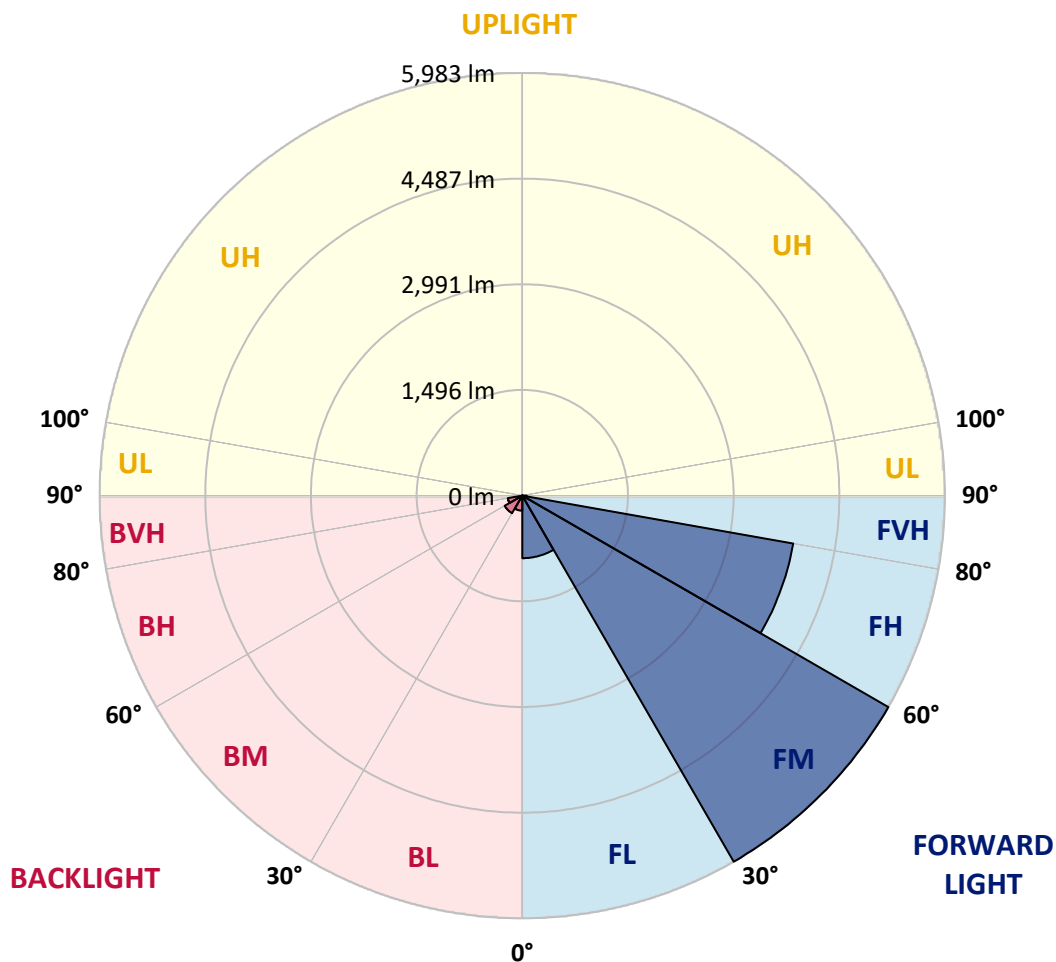
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.3	7.7			
FM	(30°-60°)	5982.7	51.9			
FH	(60°-80°)	3894.1	33.8			G2/5000
FVH	(80°-90°)	59.8	0.5			G1/100
BL	(0°-30°)	212.7	1.8	B1/500		
BM	(30°-60°)	288.2	2.5	B1/1000		
BH	(60°-80°)	207.9	1.8	B1/500		G1/500
BVH	(80°-90°)	3.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4
2.5°	1507.0	1488.2	1494.2	1485.7	1466.0	1437.0	1411.5	1374.8	1338.1	1332.1	1291.2
5°	1705.7	1700.6	1693.7	1669.0	1655.4	1611.0	1558.1	1495.0	1419.1	1405.5	1331.3
7.5°	1841.3	1838.7	1842.1	1829.4	1817.4	1777.3	1721.0	1634.9	1517.2	1509.5	1385.9
10°	1885.6	1892.5	1905.3	1925.7	1944.5	1931.7	1889.1	1781.6	1644.3	1622.1	1448.1
12.5°	1860.1	1867.7	1898.4	1953.0	2013.6	2048.5	2031.5	1953.0	1779.0	1761.1	1518.1
15°	1794.4	1803.8	1847.3	1931.7	2040.0	2138.9	2181.6	2125.3	1936.0	1907.0	1602.5
17.5°	1697.2	1710.8	1773.1	1884.8	2033.2	2203.8	2324.0	2305.2	2103.1	2075.8	1694.6
20°	1623.8	1634.0	1686.9	1814.9	2004.2	2239.6	2459.6	2512.5	2309.5	2262.6	1802.9
22.5°	1672.4	1675.8	1693.7	1770.5	1952.2	2249.0	2579.0	2728.2	2528.7	2486.9	1915.5
25°	1910.4	1876.3	1858.3	1841.3	1941.1	2240.4	2687.3	2953.4	2747.0	2702.7	2027.2
27.5°	2285.6	2270.3	2179.9	2058.8	2035.7	2251.5	2759.0	3166.6	2952.5	2904.8	2136.4
30°	2694.1	2667.7	2612.3	2434.9	2256.6	2330.0	2811.0	3373.9	3195.6	3132.5	2236.2
32.5°	3069.4	3086.4	3003.7	2821.2	2614.8	2497.1	2878.3	3599.9	3474.5	3396.0	2352.1
35°	3506.9	3541.0	3413.9	3239.1	2997.7	2799.0	3009.7	3854.9	3828.4	3729.5	2531.2
37.5°	3951.2	3971.7	3894.1	3648.5	3431.0	3182.8	3257.0	4169.6	4264.2	4179.8	2745.3
40°	4324.8	4352.9	4295.8	4077.4	3845.5	3627.1	3616.1	4512.4	4782.8	4695.8	3064.3
42.5°	4610.5	4631.8	4633.5	4479.1	4270.2	4171.3	4074.0	4949.9	5432.6	5332.0	3434.4
45°	4971.2	5001.9	4984.0	4879.1	4723.1	4705.1	4654.8	5478.7	6210.4	6083.3	3914.6
47.5°	5529.0	5549.5	5505.1	5381.4	5222.8	5251.0	5221.1	6071.4	7003.6	6894.4	4411.8
50°	5916.2	5950.3	6013.4	6062.9	5947.7	5843.7	5755.0	6624.9	7756.6	7658.5	4920.1
52.5°	5911.9	5968.2	6167.8	6416.8	6668.4	6636.8	6381.8	7236.4	8475.6	8354.5	5397.7
55°	5513.6	5622.8	5916.2	6358.0	7054.7	7401.8	7285.8	7944.2	9096.4	9014.6	5951.1
57.5°	4691.5	4758.0	5165.7	5783.1	6839.0	7761.7	8333.1	8903.7	9841.0	9802.6	6810.8
60°	3155.5	3185.4	3709.9	4473.2	5822.4	7402.7	9100.7	10064.4	10757.8	10739.0	7814.6
62.5°	1808.0	1820.8	2201.2	2845.1	4143.1	6273.5	9165.5	11496.3	11857.1	11867.3	8976.2
65°	973.1	979.9	1286.9	1669.9	2521.0	4471.5	8241.9	12281.0	12745.8	12765.4	9696.0
66°	840.1	807.6	1024.3	1423.4	2005.9	3558.9	7657.7	12252.8	12916.3	12895.0	9670.4
67.5°	638.8	667.8	817.9	1094.2	1486.5	2530.4	6322.1	11707.8	12786.7	12720.2	9277.2
70°	457.1	469.1	582.5	780.4	1012.3	1388.4	4039.9	9724.1	11621.7	11532.2	8082.4
72.5°	295.1	307.9	412.8	564.6	731.7	758.2	2261.7	7025.7	8960.0	8947.2	6086.8
75°	210.7	222.6	272.9	404.2	550.1	469.1	1089.1	4735.0	5696.1	5657.8	3765.3
77.5°	152.7	158.6	182.5	264.4	393.2	336.0	504.9	2528.7	2835.7	2969.6	1663.9
80°	87.8	93.0	127.1	161.2	266.1	229.4	241.4	1014.9	1046.4	996.1	520.2
82.5°	43.5	49.5	75.9	110.0	166.3	154.4	110.9	305.3	322.4	313.8	131.3
85°	10.2	12.8	42.6	72.5	81.0	69.1	53.7	89.5	110.9	108.3	50.3
87.5°	0.9	1.7	15.4	12.8	13.6	23.0	18.8	23.0	35.8	33.3	17.9
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°	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4	1261.4
2.5°	1272.4	1256.2	1209.3	1163.3	1124.9	1084.8	1048.1	1026.8	1018.3	1008.9	1013.2
5°	1290.4	1251.1	1156.5	1074.6	994.4	926.2	871.6	836.6	819.6	817.0	812.8
7.5°	1314.2	1246.9	1100.2	972.2	867.3	791.4	729.2	678.9	663.5	649.9	638.8
10°	1343.2	1239.2	1030.2	864.8	753.1	657.5	575.7	516.0	485.3	476.7	482.7
12.5°	1373.9	1224.7	956.9	765.9	637.1	515.1	439.2	409.4	400.8	397.4	398.3
15°	1404.6	1206.8	880.1	670.3	507.4	411.1	376.1	368.4	365.0	363.3	361.6
17.5°	1432.8	1177.8	794.0	577.4	411.1	351.4	338.6	331.8	324.9	322.4	318.1
20°	1466.0	1144.5	716.4	473.3	348.0	318.1	302.8	290.0	279.7	272.9	272.1
22.5°	1497.6	1101.9	635.4	392.3	317.3	285.7	261.0	247.3	235.4	226.9	229.4
25°	1514.7	1049.9	562.9	342.0	289.1	253.3	226.0	208.9	196.2	191.9	191.0
27.5°	1514.7	985.9	492.1	313.0	263.5	224.3	196.2	180.0	171.4	165.5	166.3
30°	1502.7	915.1	426.4	290.8	241.4	198.7	172.3	157.8	151.0	146.7	145.8
32.5°	1493.3	847.7	370.1	269.5	218.3	176.5	153.5	142.4	135.6	131.3	131.3
35°	1507.8	789.7	326.6	248.2	197.0	159.5	139.0	128.8	122.0	118.5	117.7
37.5°	1546.2	736.9	293.4	225.2	177.4	145.0	128.8	116.8	110.0	105.8	104.0
40°	1640.9	707.0	268.6	203.8	158.6	133.0	116.8	105.8	97.2	93.0	92.1
42.5°	1792.7	707.9	244.8	184.2	144.1	122.8	106.6	93.8	84.4	80.2	79.3
45°	2021.2	740.3	226.0	165.5	131.3	111.7	95.5	81.9	73.3	69.1	69.1
47.5°	2295.0	803.4	209.8	149.2	119.4	101.5	84.4	70.8	62.3	58.8	58.8
50°	2591.8	885.3	193.6	132.2	109.2	90.4	72.5	61.4	54.6	52.0	52.0
52.5°	2894.6	984.2	177.4	118.5	98.1	78.5	62.3	54.6	48.6	46.9	46.1
55°	3292.0	1110.4	160.3	104.0	86.1	67.4	55.4	47.8	40.9	38.4	37.5
57.5°	3903.5	1300.6	141.6	91.3	70.8	56.3	47.8	40.1	32.4	28.1	27.3
60°	4641.2	1532.6	122.0	80.2	57.1	46.1	38.4	30.7	23.9	18.8	17.9
62.5°	5332.0	1680.1	103.2	67.4	45.2	35.0	27.3	23.0	17.1	11.9	11.1
65°	5637.3	1630.6	85.3	54.6	35.8	24.7	17.9	16.2	10.2	5.1	4.3
66°	5535.8	1557.3	78.5	49.5	32.4	21.3	15.4	13.6	7.7	2.6	2.6
67.5°	5236.5	1384.2	68.2	42.6	28.1	17.1	11.9	10.2	4.3	0.9	0.0
70°	4486.8	1119.8	53.7	31.6	20.5	11.9	6.8	5.1	2.6	0.0	0.0
72.5°	3446.3	834.1	42.6	23.9	14.5	6.8	3.4	1.7	2.6	0.0	0.0
75°	2111.6	476.7	33.3	17.9	9.4	4.3	2.6	0.0	2.6	0.9	0.0
77.5°	937.3	214.1	22.2	11.9	6.8	3.4	1.7	0.0	1.7	0.9	0.0
80°	237.1	69.9	12.8	8.5	5.1	2.6	0.9	0.0	1.7	1.7	0.9
82.5°	64.8	25.6	9.4	6.8	4.3	2.6	0.9	0.0	1.7	1.7	1.7
85°	25.6	11.9	8.5	6.8	5.1	2.6	0.9	0.0	1.7	1.7	1.7
87.5°	11.9	8.5	8.5	7.7	6.0	2.6	0.9	0.0	1.7	0.9	1.7
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)