

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: P454184

Luminaire Tested: **GALN-SA5B-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454184  
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-SA5B-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA 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: 19053 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

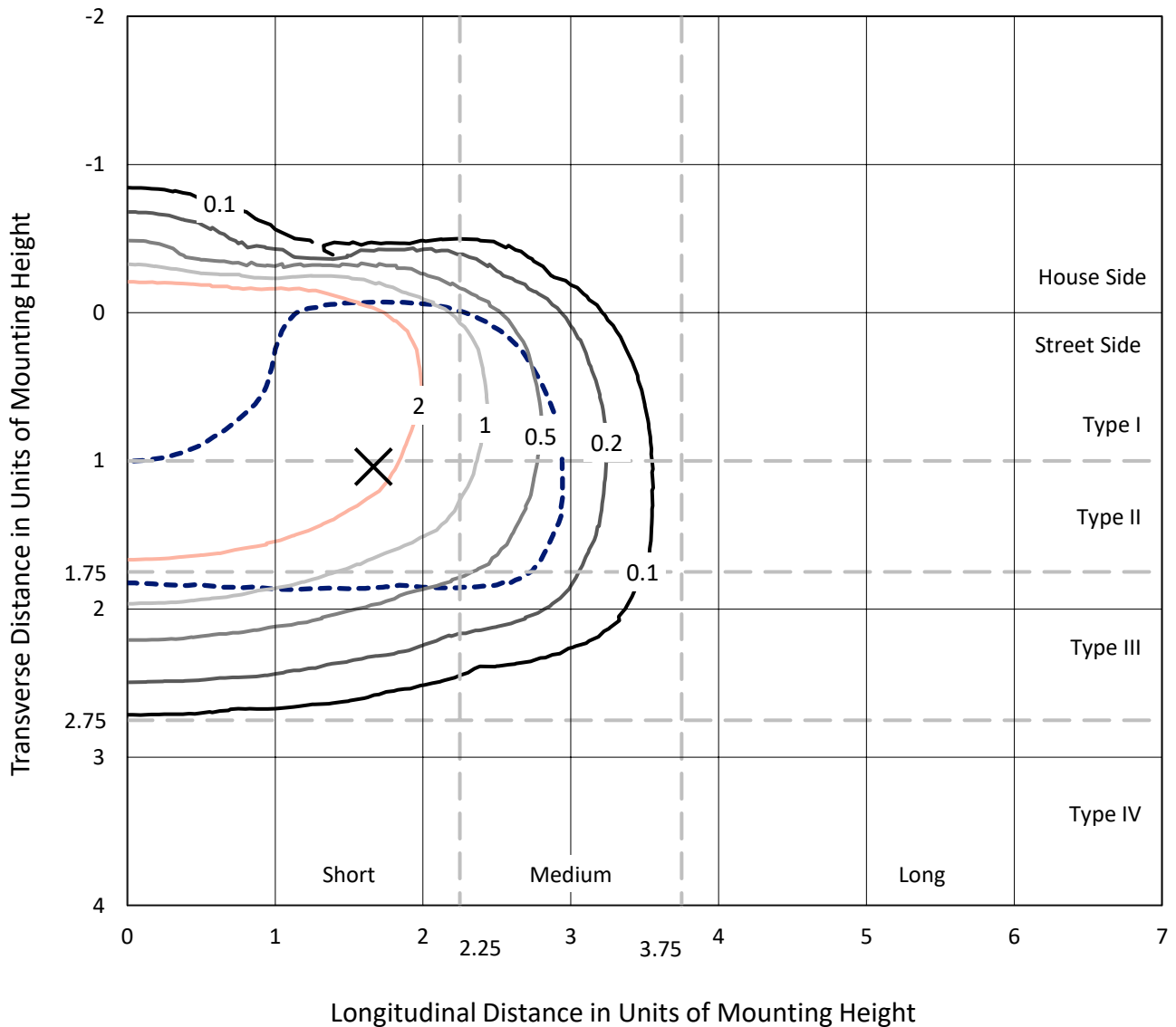
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

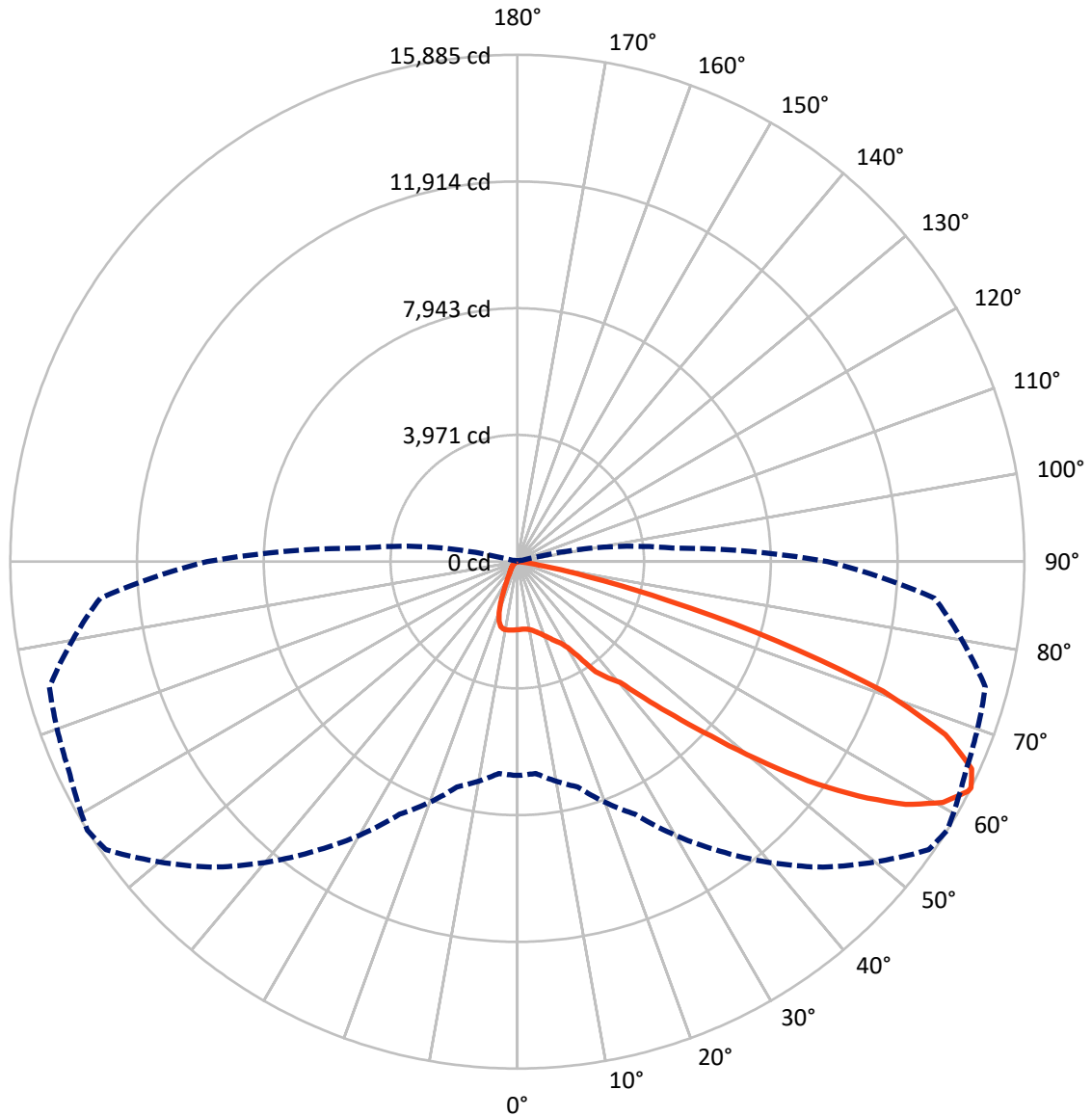
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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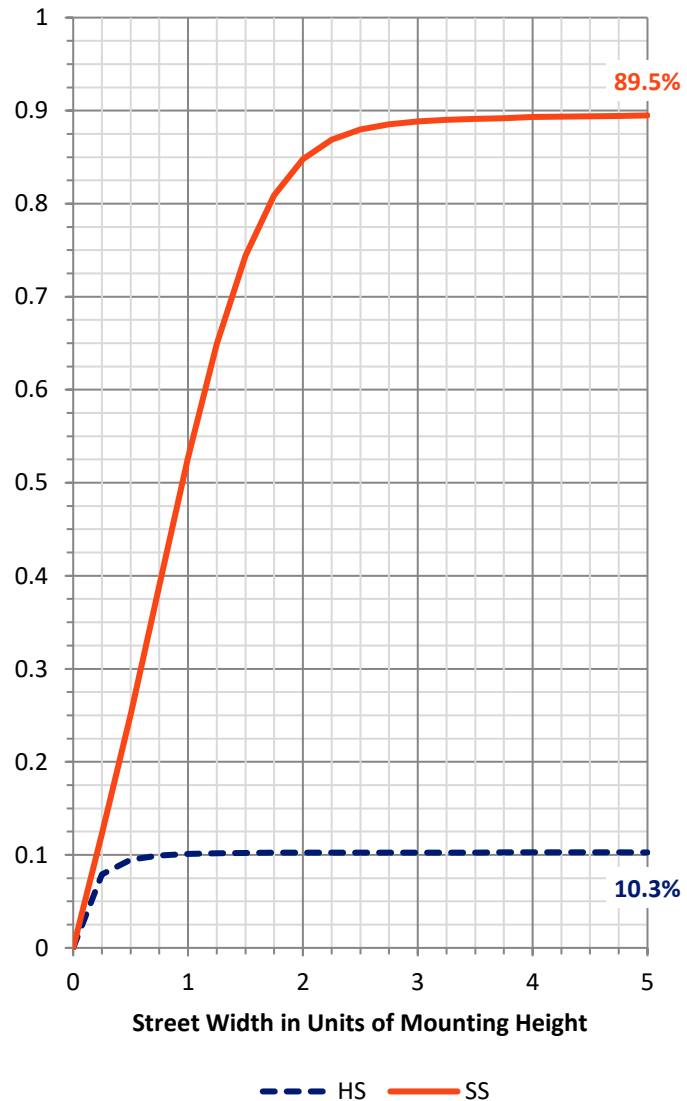
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1972.8	0.0	1972.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	17080.2	0.0	17080.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	19053.0	0.0	19053.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.7	1.0
10°-20°	543.9	2.9
20°-30°	943.9	5.0
30°-40°	1734.5	9.1
40°-50°	3265.2	17.1
50°-60°	5584.9	29.3
60°-70°	5347.5	28.1
70°-80°	1363.6	7.2
80°-90°	69.7	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°	19053.0	100.0
0°-180°	19053.0	100.0



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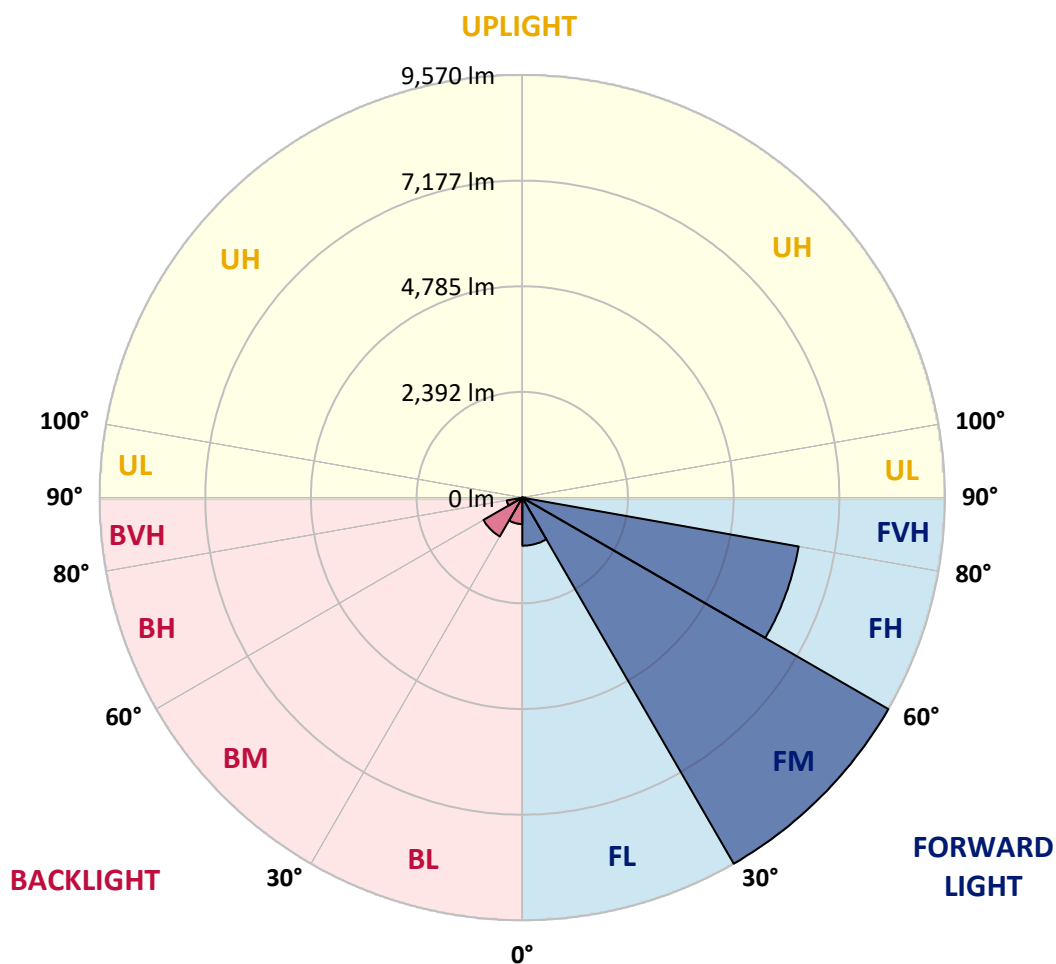
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.1	5.7			
FM (30°-60°)	9569.9	50.2			
FH (60°-80°)	6354.1	33.3			G3/7500
FVH (80°-90°)	67.0	0.4			G1/100
BL (0°-30°)	598.3	3.1	B2/1000		
BM (30°-60°)	1014.7	5.3	B2/2500		
BH (60°-80°)	357.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1
2.5°	2080.0	2087.2	2094.3	2097.2	2107.2	2117.3	2124.5	2123.0	2134.5	2140.2	2140.2
5°	1996.8	1996.8	2015.4	2032.6	2061.3	2090.0	2117.3	2123.0	2144.5	2164.6	2171.8
7.5°	1926.5	1930.8	1945.1	1976.7	2015.4	2065.6	2120.1	2133.1	2170.4	2214.8	2233.5
10°	1893.5	1896.4	1915.0	1948.0	1996.8	2065.6	2141.7	2166.0	2223.4	2293.7	2319.5
12.5°	1886.3	1890.6	1909.3	1946.6	2002.5	2085.7	2189.0	2214.8	2298.0	2388.4	2427.1
15°	1899.2	1902.1	1920.8	1960.9	2022.6	2121.6	2252.1	2288.0	2387.0	2491.7	2541.9
17.5°	1945.1	1942.3	1955.2	1988.2	2057.0	2166.0	2328.1	2371.2	2487.4	2630.8	2663.8
20°	2140.2	2121.6	2110.1	2081.4	2108.7	2229.2	2420.0	2483.1	2626.5	2772.8	2795.8
22.5°	2560.5	2518.9	2437.2	2325.3	2239.2	2315.2	2530.4	2603.6	2788.6	2932.1	2932.1
25°	3095.6	3042.5	2960.7	2716.9	2506.0	2457.2	2655.2	2747.0	2965.0	3109.9	3062.6
27.5°	3765.5	3723.9	3564.7	3280.6	2957.9	2705.4	2800.1	2884.7	3121.4	3296.4	3197.4
30°	4310.6	4290.5	4160.0	3906.1	3550.3	3181.7	3069.8	3125.7	3329.4	3531.7	3429.8
32.5°	4771.0	4771.0	4637.6	4401.0	4068.2	3741.1	3527.4	3567.5	3762.6	3996.4	3807.1
35°	5277.4	5260.2	5152.6	4927.4	4554.4	4266.1	4178.6	4233.1	4409.6	4583.1	4116.9
37.5°	5809.6	5803.9	5692.0	5473.9	5169.8	4806.9	4601.8	4616.1	4706.5	4812.6	4479.9
40°	6387.7	6396.3	6250.0	6115.1	5828.3	5456.7	5063.7	4973.3	5057.9	5357.7	5149.7
42.5°	7070.5	7050.4	6987.3	6803.7	6572.7	6350.4	5878.5	5845.5	5920.1	6241.4	6016.2
45°	7863.8	7892.5	7783.4	7681.6	7526.7	7341.6	6947.1	6889.8	6971.5	7470.7	7150.8
47.5°	8658.5	8631.2	8701.5	8682.8	8766.0	8628.3	8279.8	8162.1	8358.7	8832.0	8361.5
50°	9263.8	9293.9	9440.2	9654.0	10011.2	10088.6	9754.4	9714.2	9801.7	10105.8	9444.6
52.5°	9656.9	9757.3	9986.8	10536.2	11180.3	11680.9	11427.0	11405.5	11369.6	11451.4	10480.2
55°	9913.6	10015.5	10315.3	11124.3	12233.2	13046.5	13059.4	12967.6	12730.9	12672.1	11448.5
57.5°	9755.8	9775.9	10203.4	11285.0	12817.0	14020.5	14442.2	14350.4	13912.9	13690.6	12303.5
60°	8768.9	8810.5	9405.8	10676.8	12563.1	14339.0	15358.9	15317.3	14838.2	14587.1	12969.0
62.5°	7020.3	7140.8	7753.3	9170.6	11382.5	13802.5	15730.4	15848.0	15475.1	15129.4	13178.5
63°	6699.0	6660.2	7307.2	8731.6	11069.8	13537.1	15736.1	15885.3	15503.8	15181.0	13121.1
65°	4959.0	5075.2	5495.5	6885.5	9212.2	12302.0	15381.8	15645.8	15397.6	14952.9	12485.6
67.5°	2784.3	2778.6	3243.3	4505.7	6447.9	9649.7	13908.6	14466.6	14415.0	13418.0	10349.7
70°	1362.7	1384.3	1575.0	2335.3	3739.7	6657.4	11557.5	12160.0	12178.7	10539.1	7156.6
72.5°	616.8	626.9	763.1	1137.5	1922.2	3544.6	7964.2	8539.4	8433.2	6716.2	3952.0
75°	325.6	347.1	420.3	572.4	926.7	1461.7	4332.1	4888.7	4666.3	3068.3	1454.6
77.5°	241.0	248.2	285.5	364.4	496.3	569.5	1869.1	2223.4	2082.9	1110.3	482.0
80°	176.4	182.2	212.3	258.2	312.7	289.8	704.3	807.6	724.4	377.3	147.8
82.5°	107.6	109.0	154.9	192.2	196.5	162.1	232.4	249.6	261.1	212.3	80.3
85°	38.7	48.8	104.7	139.1	116.2	81.8	97.5	107.6	117.6	134.8	47.3
87.5°	4.3	5.7	50.2	67.4	33.0	30.1	35.9	40.2	43.0	50.2	23.0
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°	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1
2.5°	2146.0	2151.7	2147.4	2140.2	2138.8	2134.5	2125.9	2125.9	2125.9	2128.8	2125.9
5°	2177.5	2181.8	2171.8	2157.4	2141.7	2121.6	2100.1	2087.2	2085.7	2082.9	2075.7
7.5°	2237.8	2243.5	2220.6	2186.1	2143.1	2094.3	2048.4	2005.4	1985.3	1969.5	1969.5
10°	2325.3	2331.0	2285.1	2223.4	2137.4	2038.4	1929.4	1830.4	1752.9	1717.1	1708.5
12.5°	2430.0	2432.9	2356.8	2249.2	2107.2	1916.5	1684.1	1467.5	1316.8	1248.0	1240.8
15°	2544.7	2524.7	2424.3	2259.3	2021.2	1665.4	1263.8	998.4	842.0	796.1	813.3
17.5°	2660.9	2623.6	2475.9	2243.5	1827.5	1263.8	849.2	681.4	632.6	619.7	619.7
20°	2770.0	2718.3	2513.2	2174.7	1491.8	870.7	629.7	589.6	581.0	572.4	573.8
22.5°	2879.0	2800.1	2546.2	2021.2	1111.7	622.6	563.7	550.8	539.4	527.9	526.5
25°	2985.1	2876.1	2559.1	1737.1	757.4	535.1	515.0	497.8	474.8	461.9	459.0
27.5°	3095.6	2967.9	2550.5	1378.5	552.3	479.1	459.0	434.6	407.4	384.4	384.4
30°	3307.9	3142.9	2520.4	991.2	464.8	421.7	395.9	357.2	327.1	304.1	302.7
32.5°	3597.7	3371.0	2417.1	697.2	413.1	371.5	332.8	289.8	258.2	241.0	241.0
35°	3855.9	3600.5	2223.4	513.5	371.5	322.8	275.4	233.8	209.4	198.0	193.7
37.5°	4248.9	3936.2	1956.6	417.4	331.4	279.7	230.9	192.2	172.1	163.5	163.5
40°	4838.5	4346.4	1629.6	365.8	292.6	238.1	192.2	162.1	146.3	136.3	136.3
42.5°	5570.0	4848.5	1298.2	328.5	256.8	205.1	160.7	137.7	123.4	116.2	114.8
45°	6491.0	5377.8	999.8	294.1	228.1	175.0	136.3	116.2	101.8	97.5	99.0
47.5°	7452.1	5844.0	774.6	263.9	198.0	147.8	116.2	100.4	90.4	84.6	84.6
50°	8272.6	6165.4	588.1	229.5	175.0	124.8	101.8	90.4	81.8	78.9	77.5
52.5°	8958.3	6258.6	450.4	199.4	153.5	107.6	90.4	81.8	74.6	70.3	70.3
55°	9542.1	6176.8	352.9	167.8	129.1	93.2	80.3	73.2	64.6	60.2	58.8
57.5°	9883.5	5914.3	269.7	139.1	104.7	77.5	70.3	61.7	51.6	44.5	44.5
60°	10055.6	5532.8	206.6	114.8	80.3	61.7	57.4	45.9	35.9	30.1	28.7
62.5°	9849.1	5026.4	156.4	90.4	60.2	45.9	38.7	33.0	23.0	17.2	17.2
63°	9721.4	4880.1	150.6	86.1	55.9	43.0	35.9	30.1	20.1	15.8	14.3
65°	8862.2	4241.7	123.4	68.9	44.5	30.1	24.4	21.5	14.3	7.2	5.7
67.5°	7037.5	3244.8	97.5	51.6	31.6	21.5	14.3	12.9	4.3	0.0	0.0
70°	4758.1	2095.8	76.0	37.3	21.5	12.9	7.2	5.7	1.4	0.0	0.0
72.5°	2481.6	1074.4	58.8	27.3	12.9	8.6	4.3	1.4	0.0	0.0	0.0
75°	877.9	365.8	43.0	17.2	8.6	4.3	1.4	0.0	0.0	0.0	0.0
77.5°	265.4	136.3	27.3	12.9	5.7	2.9	0.0	0.0	0.0	0.0	0.0
80°	93.2	50.2	15.8	8.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	45.9	24.4	10.0	7.2	4.3	1.4	0.0	0.0	0.0	0.0	0.0
85°	25.8	15.8	8.6	7.2	4.3	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	11.5	8.6	7.2	5.7	2.9	1.4	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)