

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: P454182

Luminaire Tested: **GALN-SA5B-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
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-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20777 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

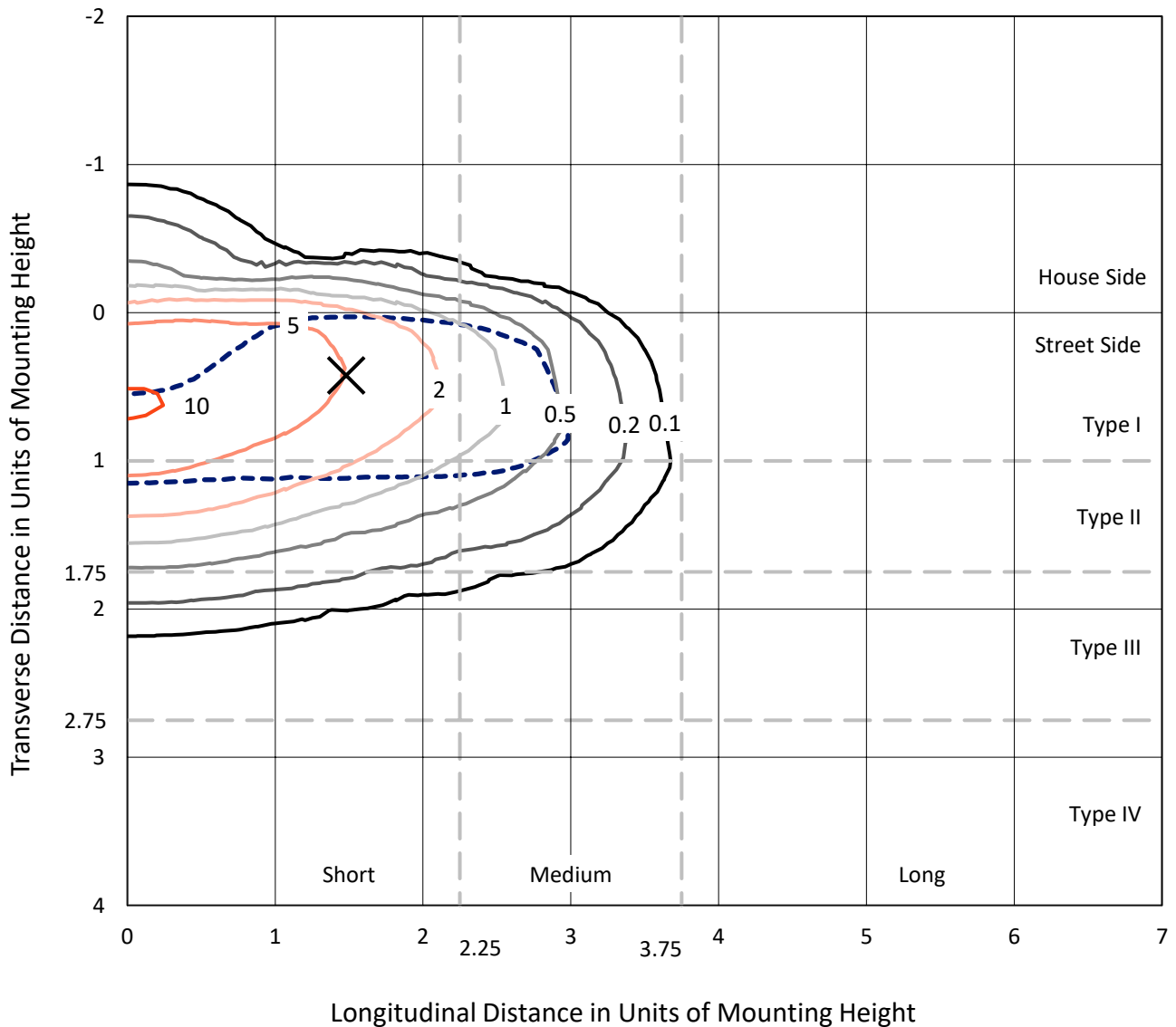
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

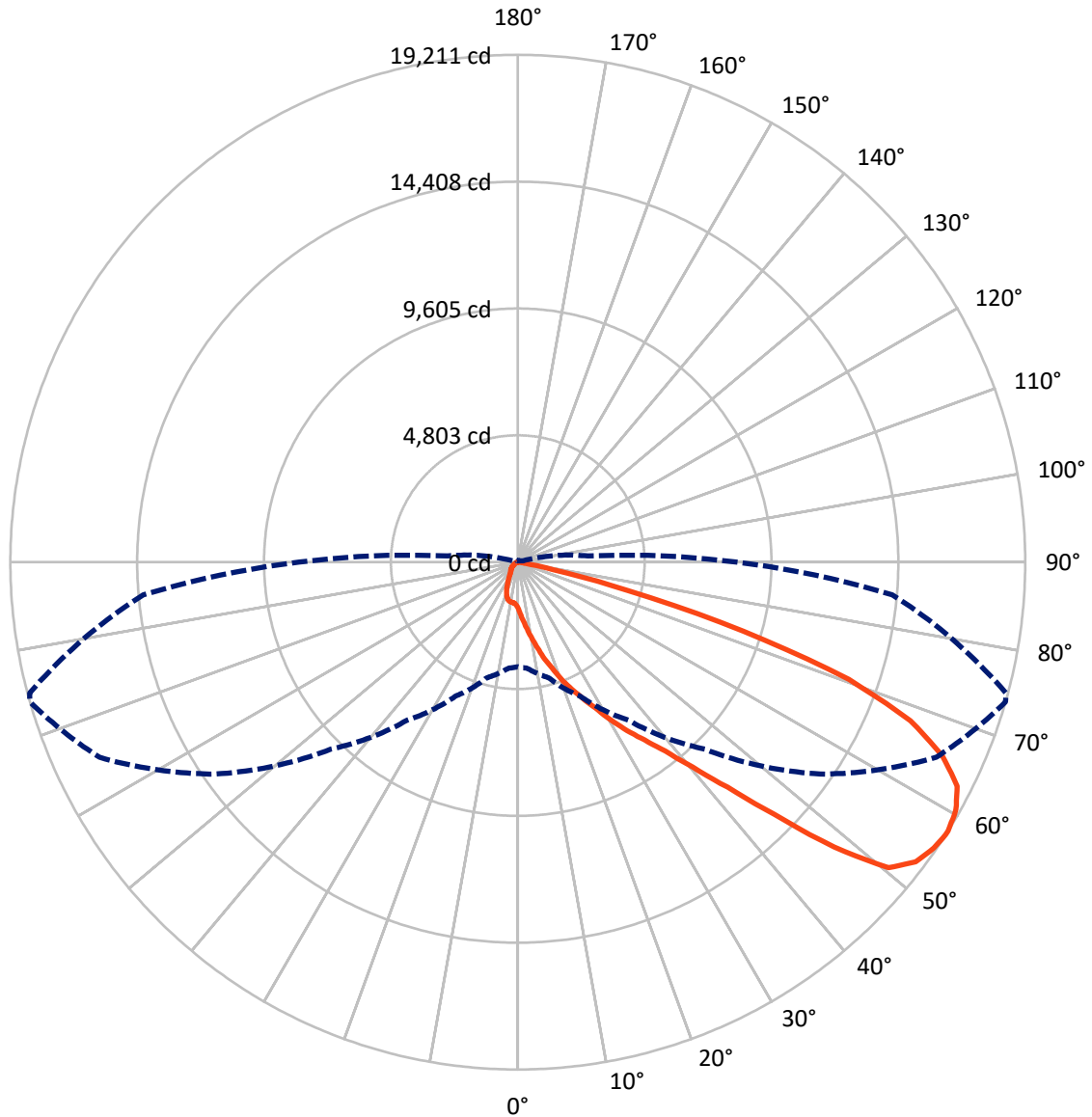
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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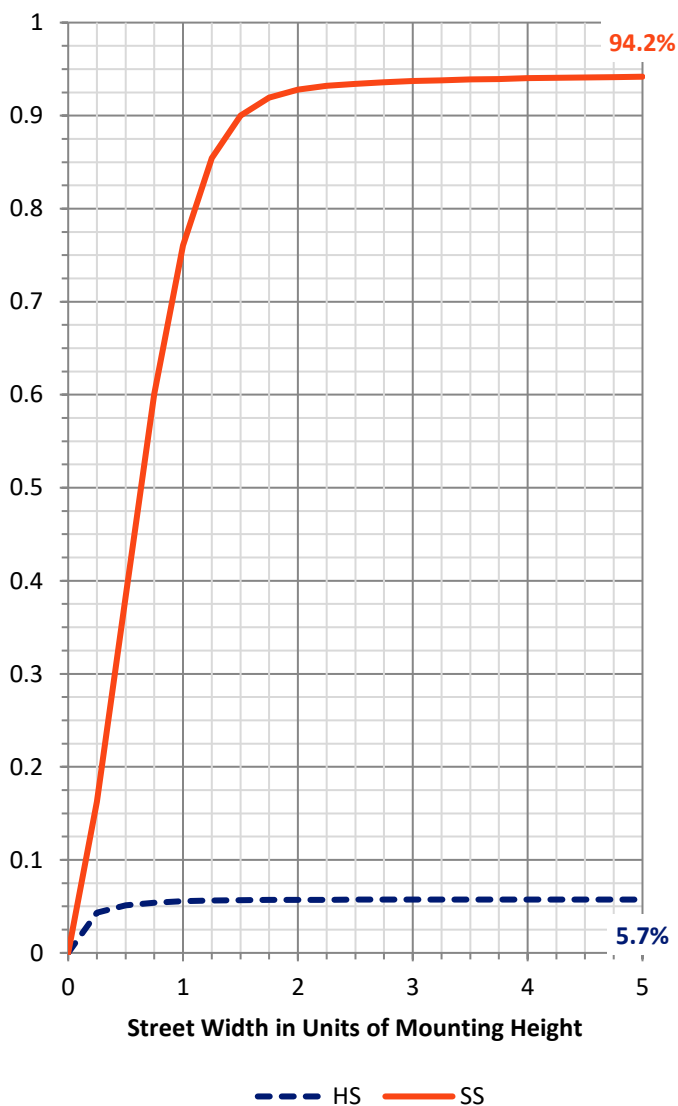
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1198.3	0.0	1198.3
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	19578.7	0.0	19578.7
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	20777.0	0.0	20777.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.0	1.0
10°-20°	827.8	4.0
20°-30°	1771.4	8.5
30°-40°	3255.8	15.7
40°-50°	4991.2	24.0
50°-60°	5280.0	25.4
60°-70°	3448.0	16.6
70°-80°	942.1	4.5
80°-90°	50.7	0.2
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°	20777.0	100.0
0°-180°	20777.0	100.0

**Coefficient of Utilization**



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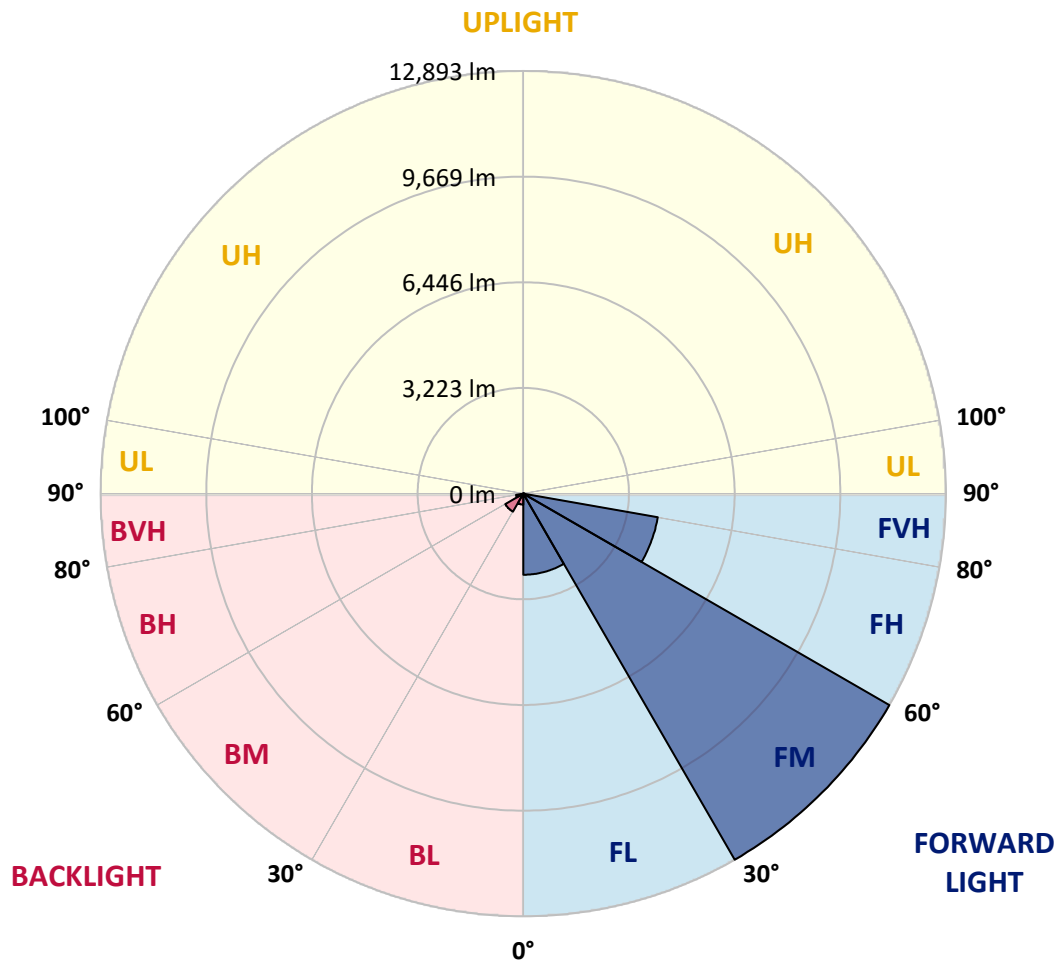
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2474.5	11.9			
FM (30°-60°)	12892.5	62.1			
FH (60°-80°)	4165.1	20.0			G2/5000
FVH (80°-90°)	46.5	0.2			G1/100
BL (0°-30°)	334.7	1.6	B1/500		
BM (30°-60°)	634.4	3.1	B1/1000		
BH (60°-80°)	225.0	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0
2.5°	2546.2	2523.3	2477.4	2461.6	2394.2	2289.5	2197.7	2074.3	1976.7	1966.7	1849.1
5°	3409.8	3358.2	3336.6	3233.4	3071.3	2919.2	2658.1	2460.2	2232.1	2214.9	1978.2
7.5°	4241.8	4170.1	4148.6	4051.0	3861.7	3622.1	3283.6	2923.5	2562.0	2529.0	2151.7
10°	4844.3	4854.3	4815.6	4751.1	4597.6	4353.7	3936.3	3444.2	2929.2	2887.6	2346.8
12.5°	5276.1	5274.7	5281.8	5280.4	5198.6	5013.6	4574.6	4008.0	3333.8	3252.0	2570.6
15°	5557.2	5561.6	5583.1	5657.7	5666.3	5551.5	5185.7	4547.4	3802.9	3701.0	2813.1
17.5°	5841.3	5871.4	5905.8	5976.1	6039.2	5993.3	5735.1	5109.7	4227.5	4151.4	3072.7
20°	6310.4	6352.0	6331.9	6374.9	6407.9	6412.2	6212.8	5629.0	4742.5	4614.8	3369.6
22.5°	7060.6	7059.2	7007.5	6930.1	6865.5	6862.6	6681.9	6162.6	5210.1	5086.7	3668.0
25°	8008.8	8013.1	7912.7	7691.8	7531.1	7334.6	7126.6	6630.3	5710.7	5558.7	3982.2
27.5°	9096.2	9068.9	8916.8	8612.7	8294.3	7958.6	7658.8	7173.9	6241.5	6115.3	4342.2
30°	10073.0	10063.0	9885.1	9513.6	9094.7	8757.6	8323.0	7855.3	6928.6	6773.7	4745.3
32.5°	10982.5	10996.9	10750.1	10365.7	9961.2	9572.4	9113.4	8506.6	7602.8	7383.4	5184.3
35°	11692.6	11706.9	11451.6	11131.7	10715.7	10392.9	9955.4	9200.9	8268.4	8083.4	5689.2
37.5°	12071.3	12090.0	11942.2	11701.2	11441.6	11279.5	10872.1	10094.6	9077.5	8965.6	6286.0
40°	12143.0	12164.5	12100.0	12035.4	12021.1	12137.3	12018.2	11147.5	10199.3	10024.3	7175.4
42.5°	11927.9	11956.5	11985.2	12128.7	12421.3	12847.4	13261.9	12576.2	11643.8	11408.6	8262.7
45°	11362.7	11359.8	11473.1	11844.7	12500.2	13409.7	14561.6	14365.1	13612.0	13332.2	9799.1
47.5°	10395.8	10381.5	10626.8	11156.1	12177.5	13513.0	15621.7	16536.9	16123.8	15865.6	11450.2
50°	8922.6	8992.9	9378.8	10117.5	11375.6	13200.3	15948.8	17961.4	18185.1	17911.1	12784.3
52.5°	7196.9	7194.0	7799.4	8802.1	10187.8	12511.7	15720.7	18219.6	18855.0	18645.6	13441.3
55°	5326.3	5363.6	5993.3	7004.7	8645.7	11255.1	14976.2	17954.2	19110.4	18962.6	13874.5
57°	3962.1	4028.1	4533.0	5603.2	7303.0	10011.4	13984.9	17479.4	19210.8	19130.5	14234.5
57.5°	3698.1	3701.0	4193.0	5165.6	6910.0	9533.7	13700.9	17281.4	19207.9	19163.5	14293.3
60°	2276.5	2348.3	2688.3	3491.6	5058.0	7440.7	11797.3	16143.8	19058.7	19123.3	14544.4
62.5°	1362.8	1392.9	1613.8	2104.4	3260.6	5431.0	9654.2	14687.8	18670.0	18866.5	14527.2
65°	876.5	883.7	984.1	1273.8	2038.4	3670.9	7439.3	12764.2	17664.4	18025.9	13959.1
67.5°	677.1	688.6	728.7	836.3	1182.0	2286.6	5261.7	10711.4	16037.7	16503.9	12582.0
70°	601.1	606.8	621.1	655.6	781.8	1291.0	3273.5	8367.4	13299.2	13431.2	9846.4
72.5°	490.6	506.4	550.8	562.3	619.7	806.2	1821.8	5616.1	8935.5	8968.5	5508.5
75°	380.1	383.0	449.0	482.0	522.2	555.2	813.4	2831.7	4292.0	4062.5	2123.1
77.5°	284.0	296.9	327.1	368.7	426.0	397.4	364.4	1067.3	1332.6	1308.3	616.8
80°	182.2	189.4	228.1	276.9	331.4	259.6	205.1	312.7	292.6	301.2	147.8
82.5°	91.8	93.2	146.3	225.2	210.9	130.5	129.1	127.7	109.0	107.6	68.9
85°	10.0	21.5	94.7	129.1	94.7	43.0	60.2	58.8	57.4	58.8	40.2
87.5°	1.4	1.4	15.8	18.6	12.9	14.3	17.2	18.6	23.0	21.5	17.2
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°	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0	1740.0
2.5°	1791.7	1734.3	1628.2	1526.3	1450.3	1401.5	1338.4	1315.4	1282.4	1278.1	1262.4
5°	1869.2	1760.1	1575.1	1428.8	1311.1	1222.2	1144.7	1080.2	1028.5	1017.1	1022.8
7.5°	1979.6	1817.5	1559.3	1359.9	1196.4	1044.3	920.9	844.9	790.4	770.3	773.2
10°	2104.4	1893.5	1556.4	1286.7	1037.1	850.7	715.8	648.4	616.8	605.4	592.4
12.5°	2252.2	1981.0	1549.3	1173.4	862.1	678.5	582.4	542.2	512.1	503.5	503.5
15°	2418.6	2074.3	1514.8	1032.8	700.0	560.9	496.3	464.8	454.7	446.1	446.1
17.5°	2592.1	2166.1	1443.1	859.3	581.0	480.6	440.4	421.7	407.4	397.4	397.4
20°	2790.1	2256.5	1328.3	705.8	490.6	428.9	397.4	375.8	364.4	355.8	352.9
22.5°	2978.0	2329.6	1182.0	579.5	427.5	385.9	357.2	334.2	322.8	318.5	318.5
25°	3173.1	2374.1	1005.6	479.1	390.2	350.0	318.5	299.8	289.8	286.9	285.5
27.5°	3362.5	2399.9	850.7	418.9	355.8	317.0	286.9	272.6	262.5	259.6	261.1
30°	3592.0	2404.2	700.0	375.8	325.6	285.5	258.2	245.3	239.6	236.7	235.3
32.5°	3824.4	2398.5	588.1	350.0	296.9	258.2	235.3	225.2	220.9	216.6	216.6
35°	4085.5	2368.4	500.6	324.2	269.7	235.3	215.2	206.6	200.8	196.5	195.1
37.5°	4409.6	2352.6	450.4	295.5	245.3	213.7	195.1	186.5	182.2	176.4	175.0
40°	4920.3	2422.9	434.7	269.7	220.9	193.7	176.4	166.4	160.7	154.9	153.5
42.5°	5557.2	2546.2	408.8	243.9	199.4	175.0	157.8	146.3	136.3	129.1	126.2
45°	6382.1	2708.3	368.7	216.6	180.7	154.9	139.1	124.8	111.9	106.2	104.7
47.5°	7247.1	2864.7	332.8	195.1	160.7	137.7	120.5	104.7	93.2	88.9	87.5
50°	7777.9	2896.3	309.9	170.7	140.6	119.1	101.8	87.5	80.3	76.0	76.0
52.5°	8020.3	2846.0	278.3	149.2	121.9	104.7	87.5	76.0	71.7	68.9	67.4
55°	8189.6	2768.6	236.7	129.1	104.7	88.9	77.5	68.9	63.1	60.2	58.8
57°	8288.5	2663.9	205.1	113.3	90.4	77.5	68.9	61.7	55.9	50.2	50.2
57.5°	8292.8	2623.7	196.5	111.9	86.1	74.6	67.4	60.2	53.1	47.3	45.9
60°	8165.2	2348.3	157.8	94.7	68.9	63.1	55.9	47.3	37.3	31.6	30.1
62.5°	7754.9	1998.3	130.5	80.3	55.9	48.8	40.2	35.9	25.8	18.6	18.6
65°	7133.8	1621.0	111.9	64.6	45.9	35.9	27.3	25.8	15.8	8.6	7.2
67.5°	6235.8	1262.4	94.7	53.1	38.7	25.8	18.6	17.2	8.6	2.9	0.0
70°	4751.1	860.7	78.9	43.0	28.7	18.6	12.9	10.0	5.7	1.4	0.0
72.5°	2738.5	473.4	66.0	33.0	21.5	14.3	10.0	5.7	5.7	0.0	0.0
75°	978.3	203.7	50.2	24.4	17.2	11.5	7.2	2.9	4.3	1.4	0.0
77.5°	311.3	109.0	33.0	18.6	14.3	8.6	5.7	2.9	2.9	1.4	0.0
80°	91.8	57.4	20.1	15.8	10.0	7.2	4.3	1.4	2.9	1.4	0.0
82.5°	50.2	28.7	15.8	11.5	10.0	5.7	4.3	1.4	1.4	1.4	0.0
85°	25.8	17.2	12.9	11.5	10.0	5.7	4.3	1.4	0.0	1.4	1.4
87.5°	14.3	12.9	12.9	11.5	10.0	7.2	4.3	1.4	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)