

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: P455110

Luminaire Tested: **GALN-SA6B-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455110  
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-SA6B-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 24603 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

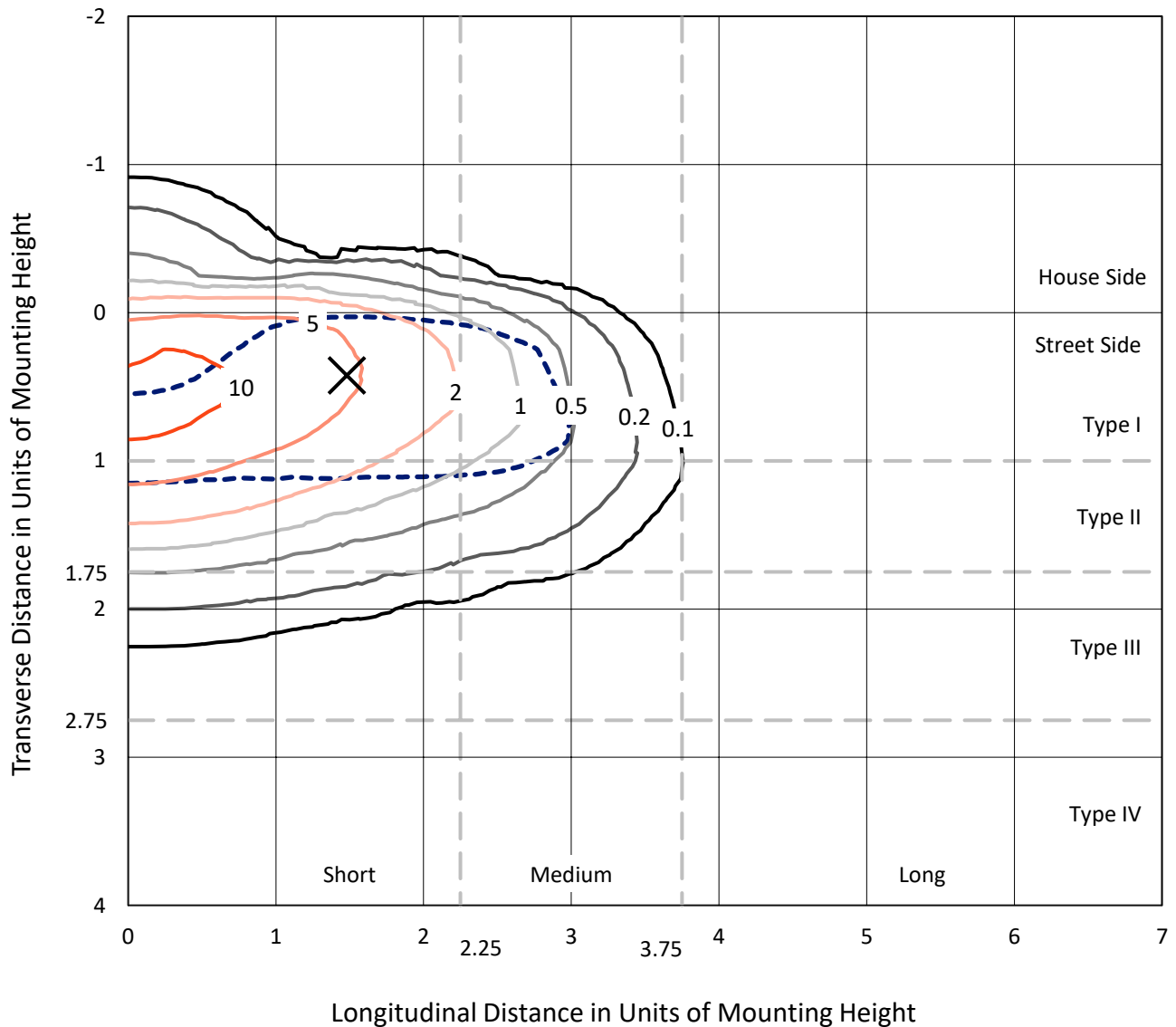
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

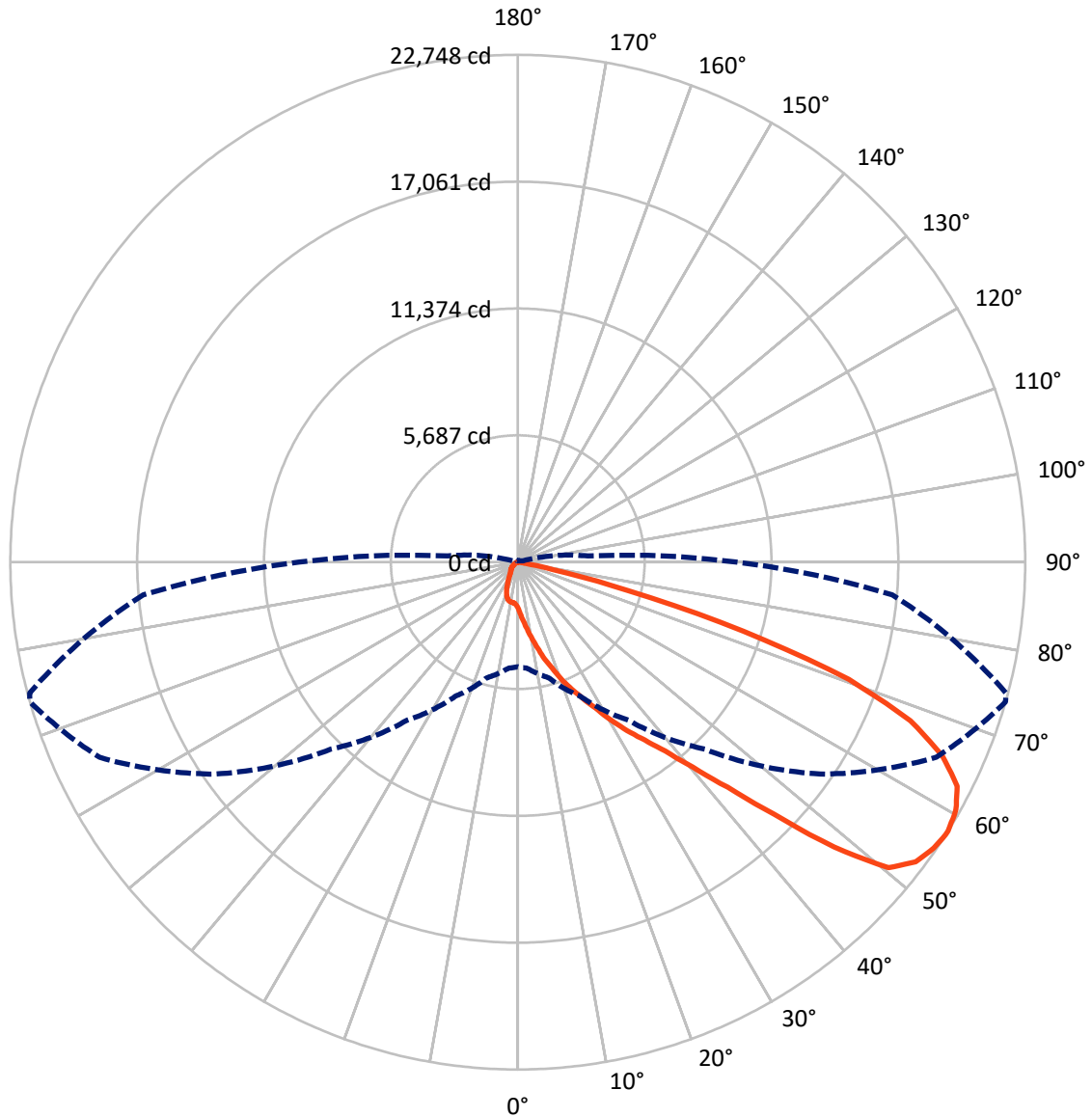
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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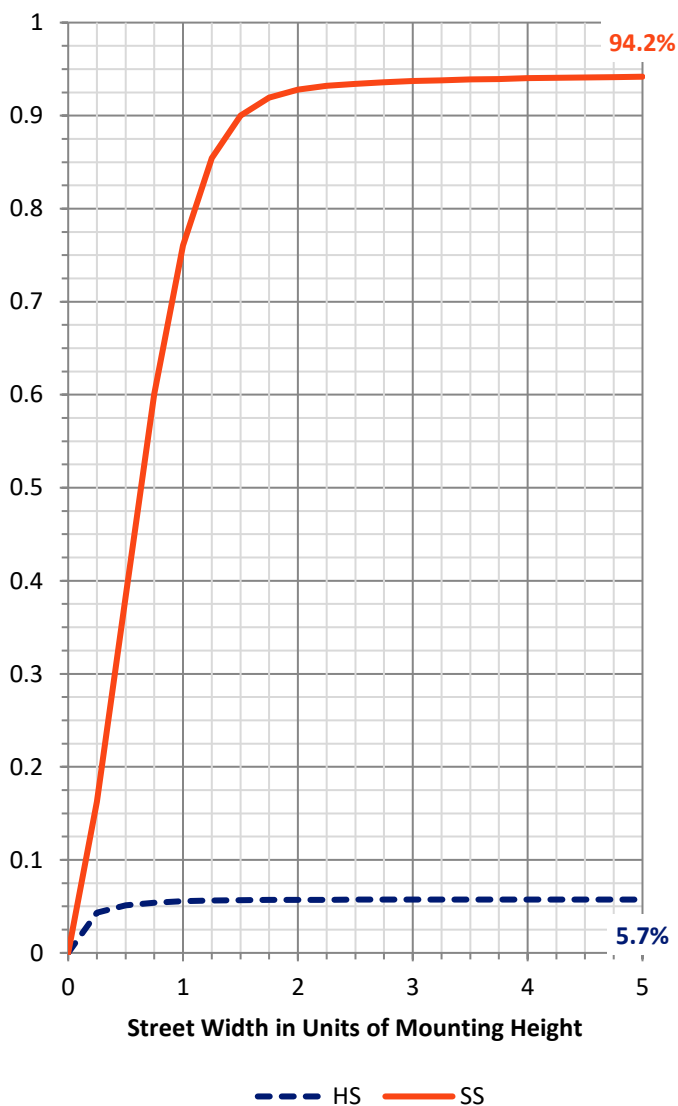
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1419.0	0.0	1419.0
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	23184.0	0.0	23184.0
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	24603.0	0.0	24603.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.7	1.0
10°-20°	980.3	4.0
20°-30°	2097.6	8.5
30°-40°	3855.3	15.7
40°-50°	5910.3	24.0
50°-60°	6252.3	25.4
60°-70°	4082.9	16.6
70°-80°	1115.6	4.5
80°-90°	60.1	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°	24603.0	100.0
0°-180°	24603.0	100.0

**Coefficient of Utilization**



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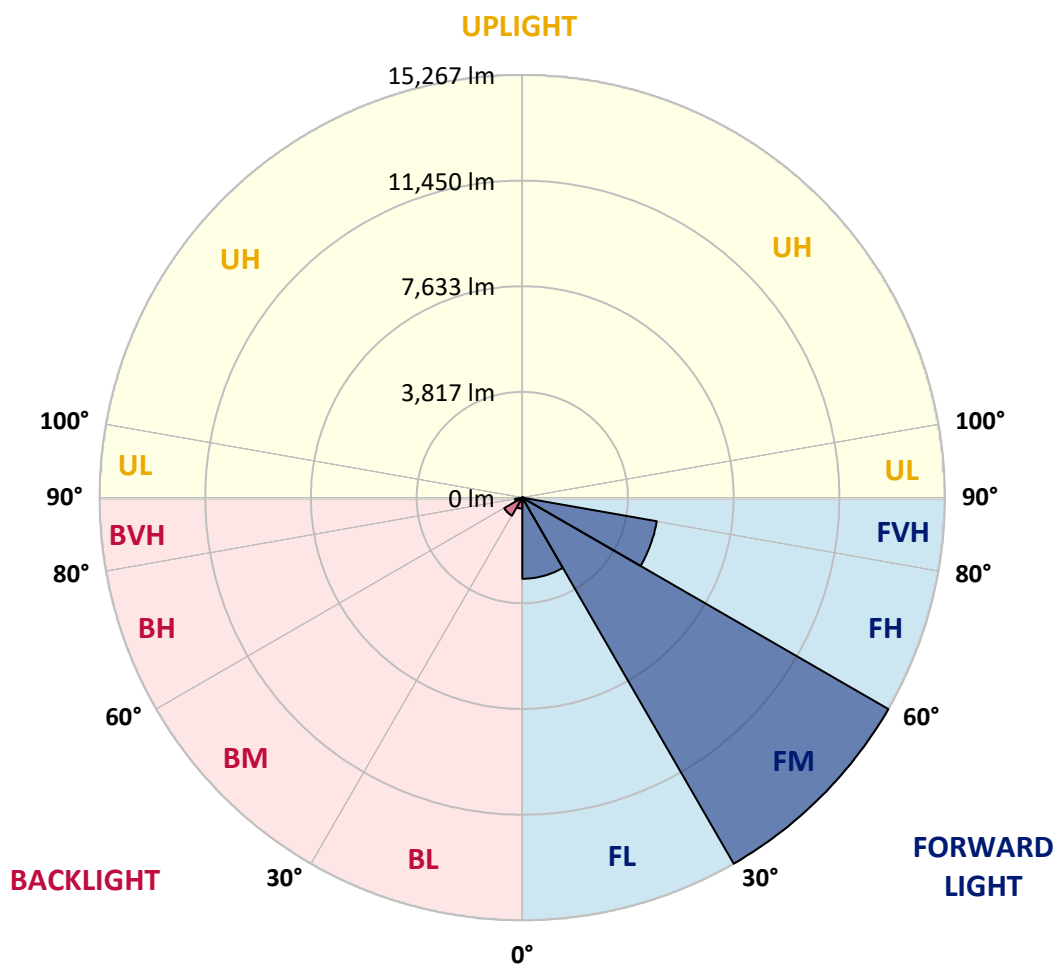
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2930.2	11.9			
FM (30°-60°)	15266.6	62.1			
FH (60°-80°)	4932.1	20.0			G2/5000
FVH (80°-90°)	55.1	0.2			G1/100
BL (0°-30°)	396.4	1.6	B1/500		
BM (30°-60°)	751.3	3.1	B1/1000		
BH (60°-80°)	266.4	1.1	B1/500		G1/500
BVH (80°-90°)	5.0	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°	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5
2.5°	3015.1	2987.9	2933.6	2914.9	2835.1	2711.1	2602.3	2456.3	2340.7	2328.9	2189.6
5°	4037.7	3976.6	3951.1	3828.8	3636.8	3456.8	3147.6	2913.2	2643.1	2622.7	2342.4
7.5°	5022.9	4938.0	4912.5	4797.0	4572.8	4289.1	3888.2	3461.9	3033.8	2994.7	2548.0
10°	5736.4	5748.3	5702.4	5625.9	5444.2	5155.4	4661.1	4078.5	3468.7	3419.4	2779.0
12.5°	6247.7	6246.0	6254.4	6252.8	6155.9	5936.8	5417.0	4746.0	3947.7	3850.9	3044.0
15°	6580.6	6585.7	6611.2	6699.5	6709.7	6573.8	6140.6	5384.7	4503.1	4382.5	3331.1
17.5°	6916.9	6952.6	6993.4	7076.6	7151.3	7097.0	6791.2	6050.6	5005.9	4915.9	3638.5
20°	7472.4	7521.6	7497.9	7548.8	7587.9	7593.0	7356.9	6665.5	5615.8	5464.6	3990.1
22.5°	8360.8	8359.1	8297.9	8206.2	8129.8	8126.4	7912.3	7297.4	6169.5	6023.4	4343.5
25°	9483.6	9488.7	9369.8	9108.2	8917.9	8685.2	8438.9	7851.2	6762.3	6582.3	4715.5
27.5°	10771.2	10738.9	10558.8	10198.7	9821.6	9424.1	9069.1	8495.0	7390.9	7241.4	5141.8
30°	11928.0	11916.1	11705.4	11265.5	10769.5	10370.3	9855.6	9301.8	8204.5	8021.1	5619.2
32.5°	13004.9	13021.9	12729.7	12274.5	11795.5	11335.1	10791.6	10073.0	9002.9	8743.0	6138.9
35°	13845.7	13862.7	13560.4	13181.6	12689.0	12306.8	11788.7	10895.2	9791.1	9571.9	6736.9
37.5°	14294.2	14316.3	14141.3	13855.9	13548.5	13356.5	12874.1	11953.4	10749.1	10616.6	7443.5
40°	14379.1	14404.6	14328.2	14251.7	14234.7	14372.3	14231.3	13200.3	12077.4	11870.2	8496.7
42.5°	14124.3	14158.3	14192.3	14362.1	14708.7	15213.2	15704.1	14892.1	13788.0	13509.4	9784.3
45°	13455.1	13451.7	13585.8	14025.8	14802.1	15879.0	17243.1	17010.3	16118.5	15787.3	11603.5
47.5°	12310.2	12293.2	12583.6	13210.4	14419.9	16001.3	18498.4	19582.1	19092.9	18787.1	13558.7
50°	10565.6	10648.9	11105.8	11980.6	13470.3	15631.0	18885.7	21268.9	21533.9	21209.4	15138.4
52.5°	8522.2	8518.8	9235.6	10423.0	12063.9	14815.7	18615.6	21574.6	22327.1	22079.1	15916.4
55°	6307.1	6351.3	7097.0	8294.5	10237.8	13327.7	17734.0	21260.4	22629.5	22454.5	16429.4
57°	4691.7	4769.8	5367.8	6634.9	8647.9	11854.9	16560.2	20698.1	22748.4	22653.3	16855.8
57.5°	4379.1	4382.5	4965.2	6116.9	8182.4	11289.3	16223.9	20463.7	22745.0	22692.3	16925.4
60°	2695.8	2780.7	3183.3	4134.5	5989.5	8810.9	13969.7	19116.7	22568.3	22644.8	17222.7
62.5°	1613.7	1649.4	1911.0	2491.9	3861.0	6431.1	11432.0	17392.5	22108.0	22340.7	17202.3
65°	1037.9	1046.4	1165.3	1508.4	2413.8	4346.9	8809.2	15114.6	20917.2	21345.3	16529.6
67.5°	801.8	815.4	862.9	990.3	1399.7	2707.7	6230.7	12683.9	18991.0	19543.0	14898.9
70°	711.7	718.5	735.5	776.3	925.8	1528.8	3876.3	9908.3	15748.2	15904.5	11659.6
72.5°	580.9	599.6	652.3	665.9	733.8	954.6	2157.3	6650.2	10580.9	10620.0	6522.8
75°	450.1	453.5	531.7	570.7	618.3	657.4	963.1	3353.1	5082.4	4810.6	2514.0
77.5°	336.3	351.6	387.3	436.6	504.5	470.5	431.5	1263.8	1578.1	1549.2	730.4
80°	215.7	224.2	270.1	327.8	392.4	307.5	242.9	370.3	346.5	356.7	175.0
82.5°	108.7	110.4	173.3	266.7	249.7	154.6	152.9	151.2	129.1	127.4	81.5
85°	11.9	25.5	112.1	152.9	112.1	51.0	71.3	69.6	67.9	69.6	47.6
87.5°	1.7	1.7	18.7	22.1	15.3	17.0	20.4	22.1	27.2	25.5	20.4
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°	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5	2060.5
2.5°	2121.6	2053.7	1928.0	1807.4	1717.3	1659.6	1584.8	1557.7	1518.6	1513.5	1494.8
5°	2213.3	2084.3	1865.1	1691.9	1552.6	1447.3	1355.5	1279.1	1217.9	1204.3	1211.1
7.5°	2344.1	2152.2	1846.4	1610.3	1416.7	1236.6	1090.5	1000.5	936.0	912.2	915.6
10°	2491.9	2242.2	1843.0	1523.7	1228.1	1007.3	847.6	767.8	730.4	716.8	701.5
12.5°	2666.9	2345.8	1834.5	1389.5	1020.9	803.5	689.7	642.1	606.4	596.2	596.2
15°	2863.9	2456.3	1793.8	1223.0	828.9	664.2	587.7	550.4	538.5	528.3	528.3
17.5°	3069.5	2565.0	1708.8	1017.5	688.0	569.0	521.5	499.4	482.4	470.5	470.5
20°	3303.9	2672.0	1573.0	835.7	580.9	507.9	470.5	445.0	431.5	421.3	417.9
22.5°	3526.4	2758.6	1399.7	686.3	506.2	456.9	423.0	395.8	382.2	377.1	377.1
25°	3757.4	2811.3	1190.8	567.4	462.0	414.5	377.1	355.0	343.1	339.7	338.0
27.5°	3981.6	2841.9	1007.3	496.0	421.3	375.4	339.7	322.7	310.9	307.5	309.2
30°	4253.4	2846.9	828.9	445.0	385.6	338.0	305.8	290.5	283.7	280.3	278.6
32.5°	4528.6	2840.2	696.4	414.5	351.6	305.8	278.6	266.7	261.6	256.5	256.5
35°	4837.8	2804.5	592.8	383.9	319.3	278.6	254.8	244.6	237.8	232.7	231.0
37.5°	5221.7	2785.8	533.4	349.9	290.5	253.1	231.0	220.8	215.7	208.9	207.2
40°	5826.4	2869.0	514.7	319.3	261.6	229.3	208.9	197.0	190.2	183.5	181.8
42.5°	6580.6	3015.1	484.1	288.8	236.1	207.2	186.9	173.3	161.4	152.9	149.5
45°	7557.3	3207.1	436.6	256.5	214.0	183.5	164.8	147.8	132.5	125.7	124.0
47.5°	8581.6	3392.2	394.1	231.0	190.2	163.1	142.7	124.0	110.4	105.3	103.6
50°	9210.1	3429.6	366.9	202.1	166.5	141.0	120.6	103.6	95.1	90.0	90.0
52.5°	9497.2	3370.1	329.5	176.7	144.4	124.0	103.6	90.0	84.9	81.5	79.8
55°	9697.6	3278.4	280.3	152.9	124.0	105.3	91.7	81.5	74.7	71.3	69.6
57°	9814.8	3154.4	242.9	134.2	107.0	91.7	81.5	73.0	66.2	59.5	59.5
57.5°	9819.9	3106.8	232.7	132.5	101.9	88.3	79.8	71.3	62.9	56.1	54.4
60°	9668.7	2780.7	186.9	112.1	81.5	74.7	66.2	56.1	44.2	37.4	35.7
62.5°	9182.9	2366.2	154.6	95.1	66.2	57.8	47.6	42.5	30.6	22.1	22.1
65°	8447.4	1919.5	132.5	76.4	54.4	42.5	32.3	30.6	18.7	10.2	8.5
67.5°	7384.1	1494.8	112.1	62.9	45.9	30.6	22.1	20.4	10.2	3.4	0.0
70°	5625.9	1019.2	93.4	51.0	34.0	22.1	15.3	11.9	6.8	1.7	0.0
72.5°	3242.7	560.6	78.1	39.1	25.5	17.0	11.9	6.8	6.8	0.0	0.0
75°	1158.5	241.2	59.5	28.9	20.4	13.6	8.5	3.4	5.1	1.7	0.0
77.5°	368.6	129.1	39.1	22.1	17.0	10.2	6.8	3.4	3.4	1.7	0.0
80°	108.7	67.9	23.8	18.7	11.9	8.5	5.1	1.7	3.4	1.7	0.0
82.5°	59.5	34.0	18.7	13.6	11.9	6.8	5.1	1.7	1.7	1.7	0.0
85°	30.6	20.4	15.3	13.6	11.9	6.8	5.1	1.7	0.0	1.7	1.7
87.5°	17.0	15.3	15.3	13.6	11.9	8.5	5.1	1.7	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)