

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: P455951

Luminaire Tested: **GALN-SA7A-830-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455951  
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-SA7A-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA 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: 20265 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

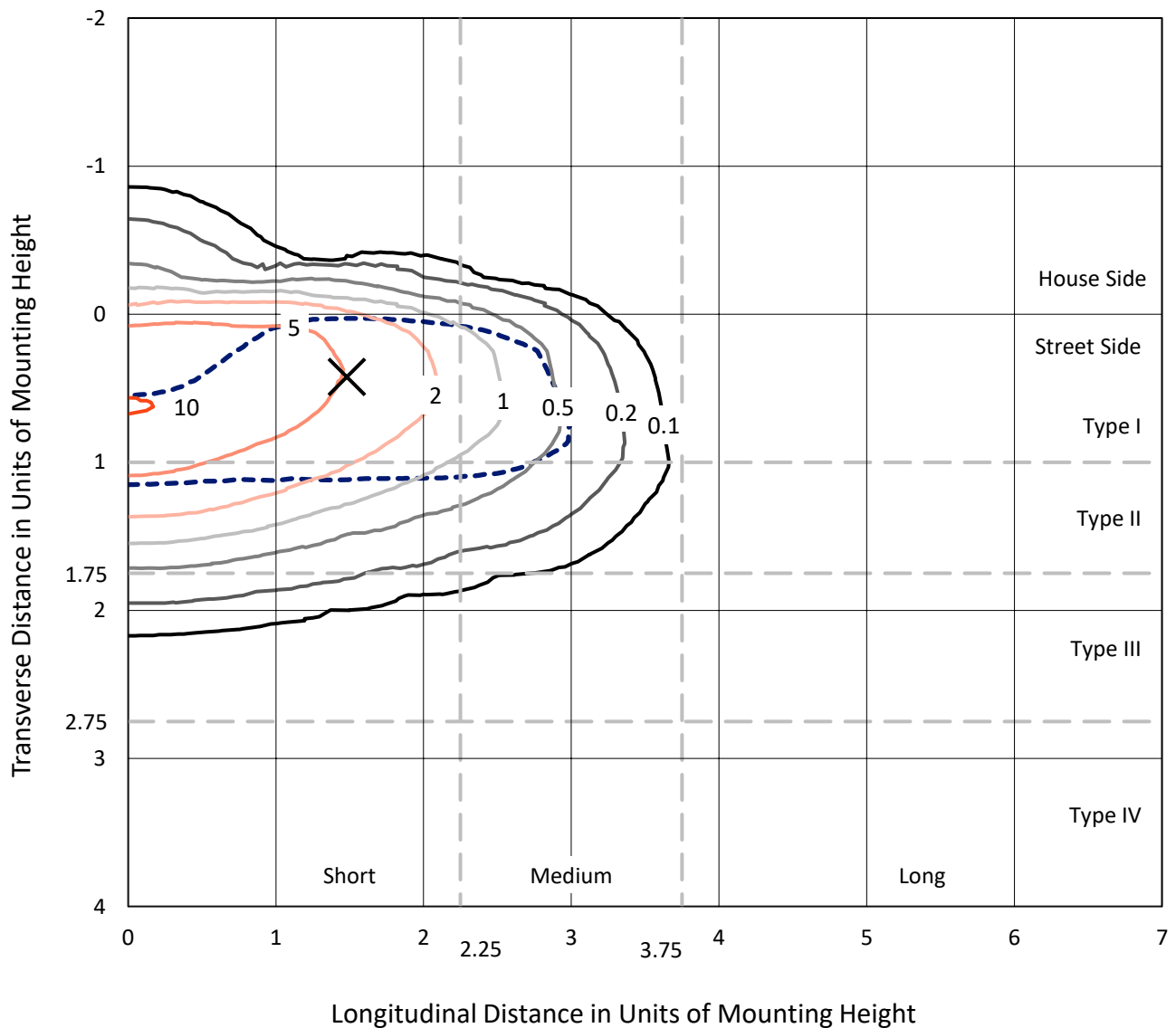
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

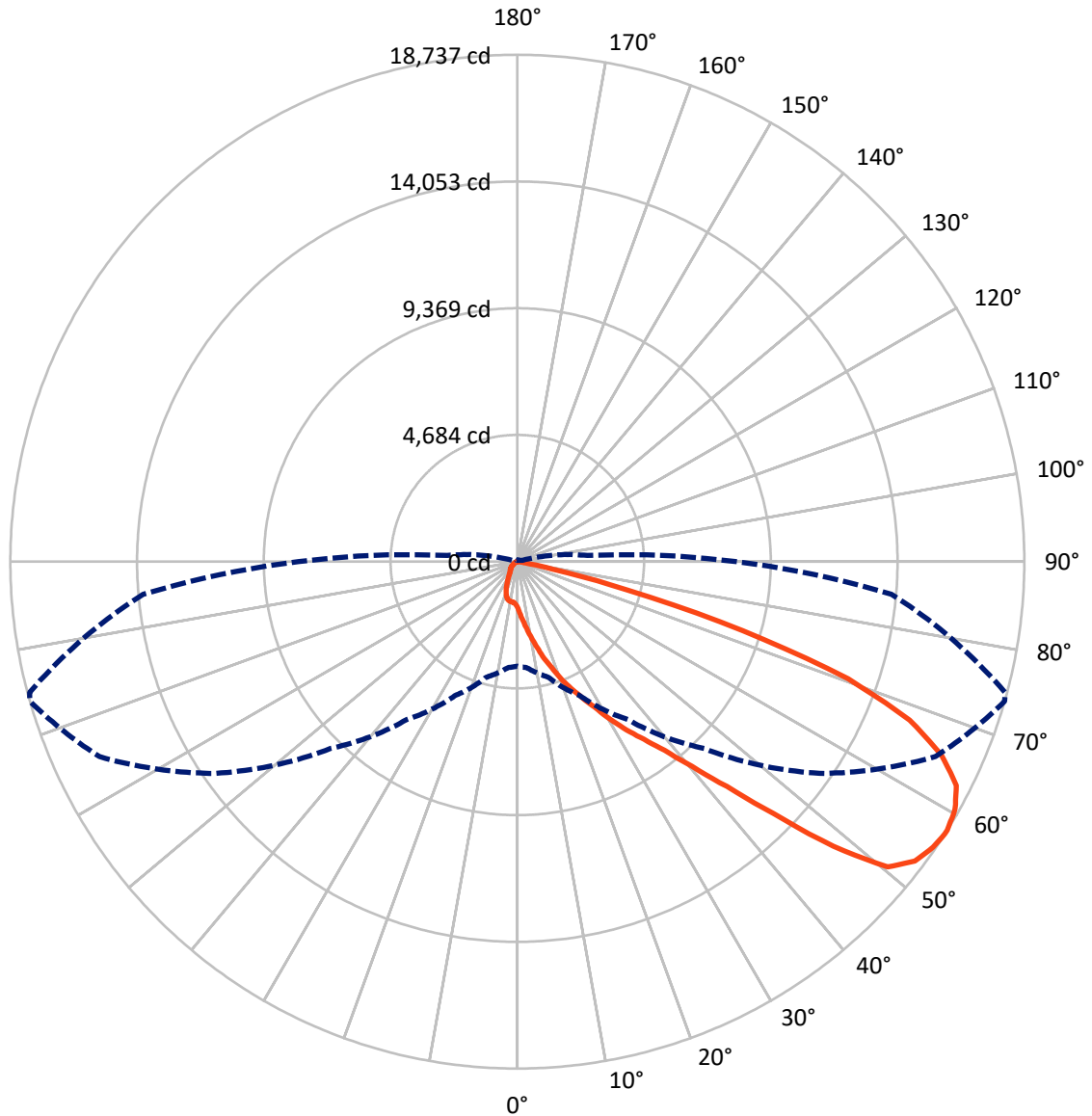
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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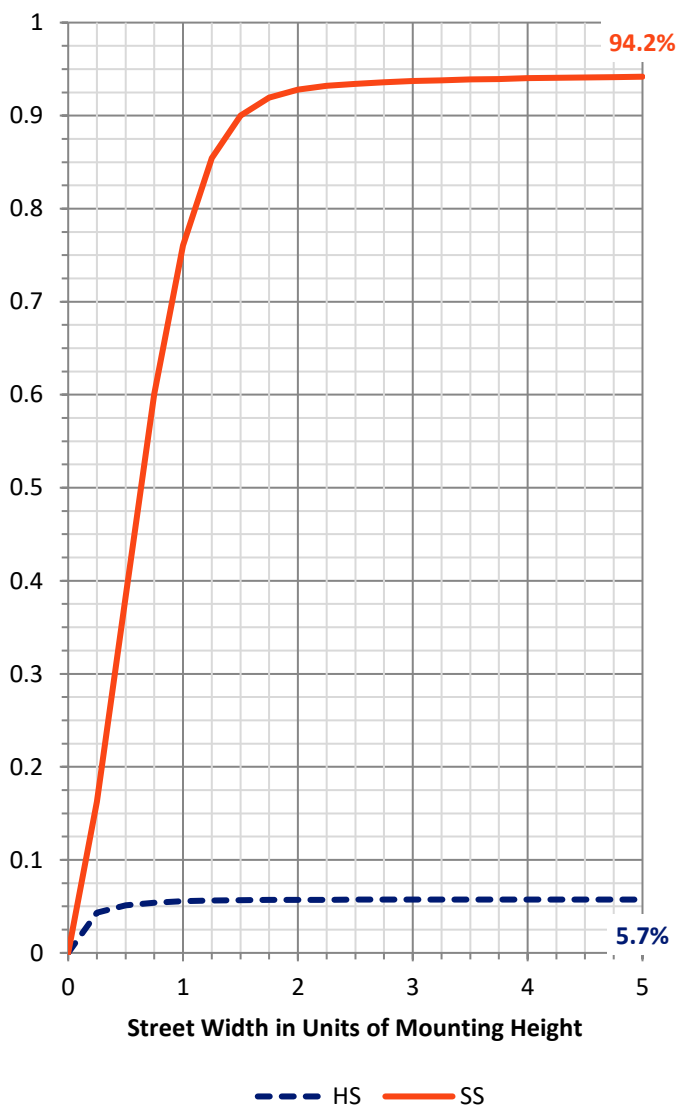
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1168.8	0.0	1168.8
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	19096.2	0.0	19096.2
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	20265.0	0.0	20265.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.8	1.0
10°-20°	807.4	4.0
20°-30°	1727.7	8.5
30°-40°	3175.6	15.7
40°-50°	4868.2	24.0
50°-60°	5149.9	25.4
60°-70°	3363.0	16.6
70°-80°	918.9	4.5
80°-90°	49.5	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°	20265.0	100.0
0°-180°	20265.0	100.0

**Coefficient of Utilization**



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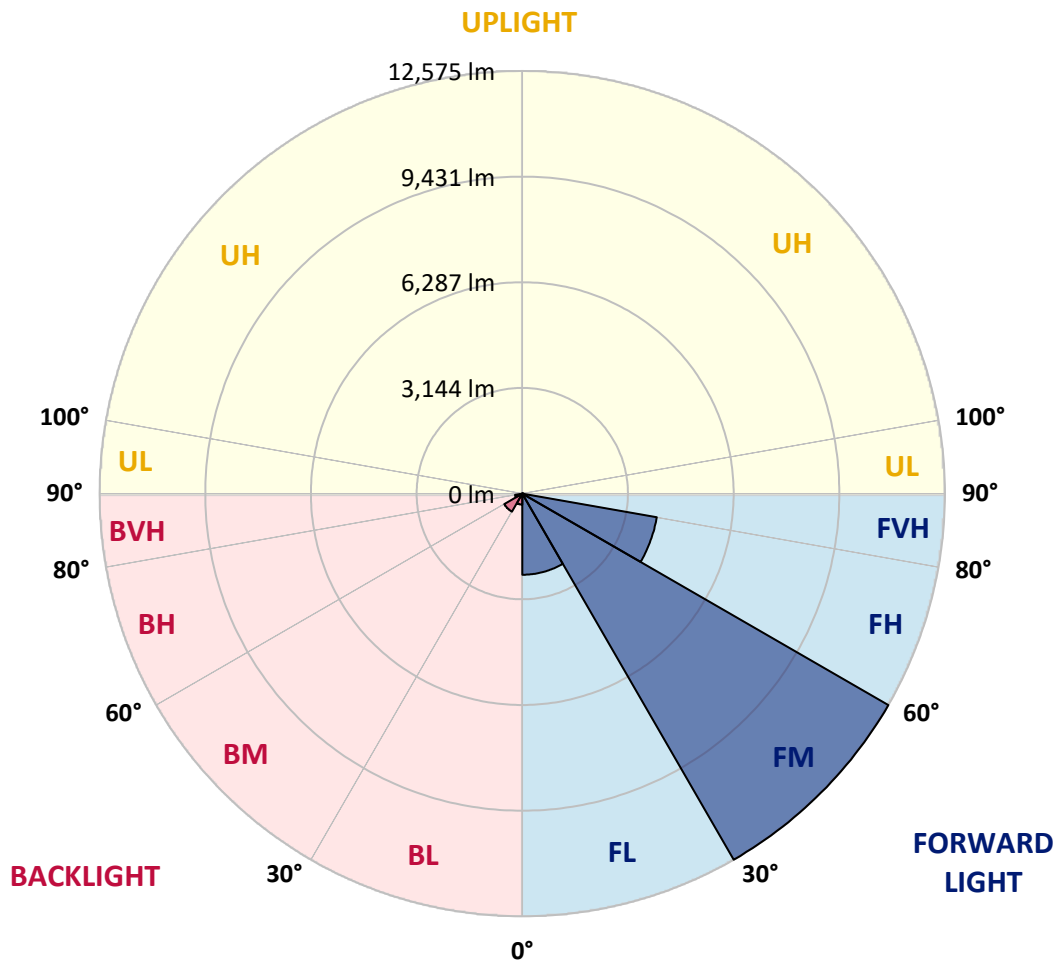
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2413.5	11.9			
FM (30°-60°)	12574.8	62.1			
FH (60°-80°)	4062.5	20.0			G2/5000
FVH (80°-90°)	45.4	0.2			G1/100
BL (0°-30°)	326.5	1.6	B1/500		
BM (30°-60°)	618.8	3.1	B1/1000		
BH (60°-80°)	219.4	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
2.5°	2483.5	2461.1	2416.3	2400.9	2335.2	2233.0	2143.5	2023.2	1928.0	1918.2	1803.5
5°	3325.8	3275.4	3254.4	3153.7	2995.6	2847.3	2592.6	2399.5	2177.1	2160.3	1929.4
7.5°	4137.3	4067.3	4046.3	3951.2	3766.5	3532.9	3202.7	2851.5	2498.9	2466.7	2098.7
10°	4724.9	4734.7	4696.9	4634.0	4484.3	4246.4	3839.3	3359.4	2857.1	2816.5	2289.0
12.5°	5146.1	5144.7	5151.7	5150.3	5070.5	4890.0	4461.9	3909.2	3251.6	3171.9	2507.3
15°	5420.3	5424.5	5445.5	5518.2	5526.6	5414.7	5057.9	4435.3	3709.1	3609.8	2743.7
17.5°	5697.3	5726.7	5760.3	5828.9	5890.4	5845.6	5593.8	4983.8	4123.3	4049.1	2997.0
20°	6154.9	6195.4	6175.8	6217.8	6250.0	6254.2	6059.7	5490.3	4625.6	4501.1	3286.6
22.5°	6886.6	6885.2	6834.8	6759.3	6696.3	6693.5	6517.2	6010.7	5081.7	4961.4	3577.6
25°	7811.4	7815.6	7717.7	7502.2	7345.5	7153.8	6951.0	6466.9	5570.0	5421.7	3884.0
27.5°	8872.0	8845.4	8697.1	8400.5	8089.9	7762.5	7470.1	6997.1	6087.7	5964.6	4235.2
30°	9824.8	9815.0	9641.5	9279.2	8870.6	8541.8	8117.9	7661.7	6757.9	6606.8	4628.4
32.5°	10711.9	10725.9	10485.2	10110.2	9715.7	9336.5	8888.8	8297.0	7415.5	7201.4	5056.5
35°	11404.5	11418.5	11169.4	10857.4	10451.6	10136.8	9710.1	8974.1	8064.7	7884.2	5549.0
37.5°	11773.8	11792.0	11647.9	11412.9	11159.6	11001.5	10604.1	9845.8	8853.8	8744.7	6131.1
40°	11843.8	11864.8	11801.8	11738.9	11724.9	11838.2	11722.1	10872.8	9947.9	9777.3	6998.5
42.5°	11633.9	11661.9	11689.9	11829.8	12115.2	12530.8	12935.1	12266.3	11356.9	11127.4	8059.1
45°	11082.7	11079.9	11190.4	11552.8	12192.2	13079.2	14202.8	14011.1	13276.5	13003.7	9557.6
47.5°	10139.6	10125.6	10364.9	10881.2	11877.4	13180.0	15236.7	16129.4	15726.4	15474.6	11168.0
50°	8702.7	8771.3	9147.6	9868.2	11095.2	12875.0	15555.7	17518.7	17737.0	17469.8	12469.2
52.5°	7019.5	7016.7	7607.2	8585.2	9936.8	12203.4	15333.3	17770.6	18390.4	18186.1	13110.0
55°	5195.0	5231.4	5845.6	6832.0	8432.7	10977.7	14607.1	17511.7	18639.5	18495.3	13532.6
57°	3864.4	3928.8	4421.3	5465.1	7123.1	9764.7	13640.3	17048.6	18737.4	18659.0	13883.8
57.5°	3607.0	3609.8	4089.7	5038.3	6739.7	9298.7	13363.3	16855.5	18734.6	18691.2	13941.1
60°	2220.4	2290.4	2622.0	3405.5	4933.4	7257.4	11506.6	15746.0	18589.1	18652.1	14186.0
62.5°	1329.2	1358.6	1574.0	2052.6	3180.3	5297.2	9416.3	14325.9	18209.9	18401.6	14169.2
65°	854.9	861.9	959.8	1242.4	1988.2	3580.4	7256.0	12449.6	17229.1	17581.7	13615.1
67.5°	660.4	671.6	710.8	815.7	1152.9	2230.2	5132.1	10447.4	15642.5	16097.2	12271.9
70°	586.2	591.8	605.8	639.4	762.5	1259.2	3192.9	8161.2	12971.5	13100.2	9603.8
72.5°	478.5	493.9	537.3	548.5	604.4	786.3	1776.9	5477.7	8715.3	8747.5	5372.7
75°	370.8	373.6	437.9	470.1	509.3	541.5	793.3	2761.9	4186.3	3962.4	2070.7
77.5°	277.0	289.6	319.0	359.6	415.5	387.6	355.4	1041.0	1299.8	1276.0	601.6
80°	177.7	184.7	222.5	270.0	323.2	253.2	200.1	305.0	285.4	293.8	144.1
82.5°	89.5	90.9	142.7	219.7	205.7	127.3	125.9	124.5	106.3	104.9	67.2
85°	9.8	21.0	92.3	125.9	92.3	42.0	58.8	57.4	56.0	57.4	39.2
87.5°	1.4	1.4	15.4	18.2	12.6	14.0	16.8	18.2	22.4	21.0	16.8
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°	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
2.5°	1747.5	1691.6	1588.0	1488.7	1414.5	1367.0	1305.4	1283.0	1250.8	1246.6	1231.3
5°	1823.1	1716.8	1536.3	1393.6	1278.8	1192.1	1116.5	1053.6	1003.2	992.0	997.6
7.5°	1930.8	1772.7	1520.9	1326.4	1166.9	1018.6	898.3	824.1	770.9	751.3	754.1
10°	2052.6	1846.9	1518.1	1255.0	1011.6	829.7	698.2	632.4	601.6	590.4	577.8
12.5°	2196.7	1932.2	1511.1	1144.5	840.9	661.8	568.1	528.9	499.5	491.1	491.1
15°	2359.0	2023.2	1477.5	1007.4	682.8	547.1	484.1	453.3	443.5	435.1	435.1
17.5°	2528.3	2112.7	1407.5	838.1	566.7	468.7	429.5	411.3	397.4	387.6	387.6
20°	2721.3	2200.9	1295.6	688.4	478.5	418.3	387.6	366.6	355.4	347.0	344.2
22.5°	2904.6	2272.2	1152.9	565.3	416.9	376.4	348.4	326.0	314.8	310.6	310.6
25°	3094.9	2315.6	980.8	467.3	380.6	341.4	310.6	292.4	282.6	279.8	278.4
27.5°	3279.6	2340.8	829.7	408.6	347.0	309.2	279.8	265.8	256.0	253.2	254.6
30°	3503.5	2345.0	682.8	366.6	317.6	278.4	251.8	239.3	233.7	230.9	229.5
32.5°	3730.1	2339.4	573.7	341.4	289.6	251.8	229.5	219.7	215.5	211.3	211.3
35°	3984.8	2310.0	488.3	316.2	263.0	229.5	209.9	201.5	195.9	191.7	190.3
37.5°	4301.0	2294.6	439.3	288.2	239.3	208.5	190.3	181.9	177.7	172.1	170.7
40°	4799.1	2363.2	423.9	263.0	215.5	188.9	172.1	162.3	156.7	151.1	149.7
42.5°	5420.3	2483.5	398.8	237.9	194.5	170.7	153.9	142.7	132.9	125.9	123.1
45°	6224.8	2641.6	359.6	211.3	176.3	151.1	135.7	121.7	109.1	103.5	102.1
47.5°	7068.5	2794.1	324.6	190.3	156.7	134.3	117.5	102.1	90.9	86.7	85.3
50°	7586.2	2824.9	302.2	166.5	137.1	116.1	99.3	85.3	78.4	74.2	74.2
52.5°	7822.6	2775.9	271.4	145.5	118.9	102.1	85.3	74.2	70.0	67.2	65.8
55°	7987.7	2700.4	230.9	125.9	102.1	86.7	75.6	67.2	61.6	58.8	57.4
57°	8084.3	2598.2	200.1	110.5	88.1	75.6	67.2	60.2	54.6	49.0	49.0
57.5°	8088.5	2559.0	191.7	109.1	83.9	72.8	65.8	58.8	51.8	46.2	44.8
60°	7964.0	2290.4	153.9	92.3	67.2	61.6	54.6	46.2	36.4	30.8	29.4
62.5°	7563.8	1949.0	127.3	78.4	54.6	47.6	39.2	35.0	25.2	18.2	18.2
65°	6958.0	1581.0	109.1	63.0	44.8	35.0	26.6	25.2	15.4	8.4	7.0
67.5°	6082.1	1231.3	92.3	51.8	37.8	25.2	18.2	16.8	8.4	2.8	0.0
70°	4634.0	839.5	77.0	42.0	28.0	18.2	12.6	9.8	5.6	1.4	0.0
72.5°	2671.0	461.7	64.4	32.2	21.0	14.0	9.8	5.6	5.6	0.0	0.0
75°	954.2	198.7	49.0	23.8	16.8	11.2	7.0	2.8	4.2	1.4	0.0
77.5°	303.6	106.3	32.2	18.2	14.0	8.4	5.6	2.8	2.8	1.4	0.0
80°	89.5	56.0	19.6	15.4	9.8	7.0	4.2	1.4	2.8	1.4	0.0
82.5°	49.0	28.0	15.4	11.2	9.8	5.6	4.2	1.4	1.4	1.4	0.0
85°	25.2	16.8	12.6	11.2	9.8	5.6	4.2	1.4	0.0	1.4	1.4
87.5°	14.0	12.6	12.6	11.2	9.8	7.0	4.2	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)