

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: P459226

Luminaire Tested: **GALN-SA7A-735-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459226  
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-SA7A-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA 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: 22182 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

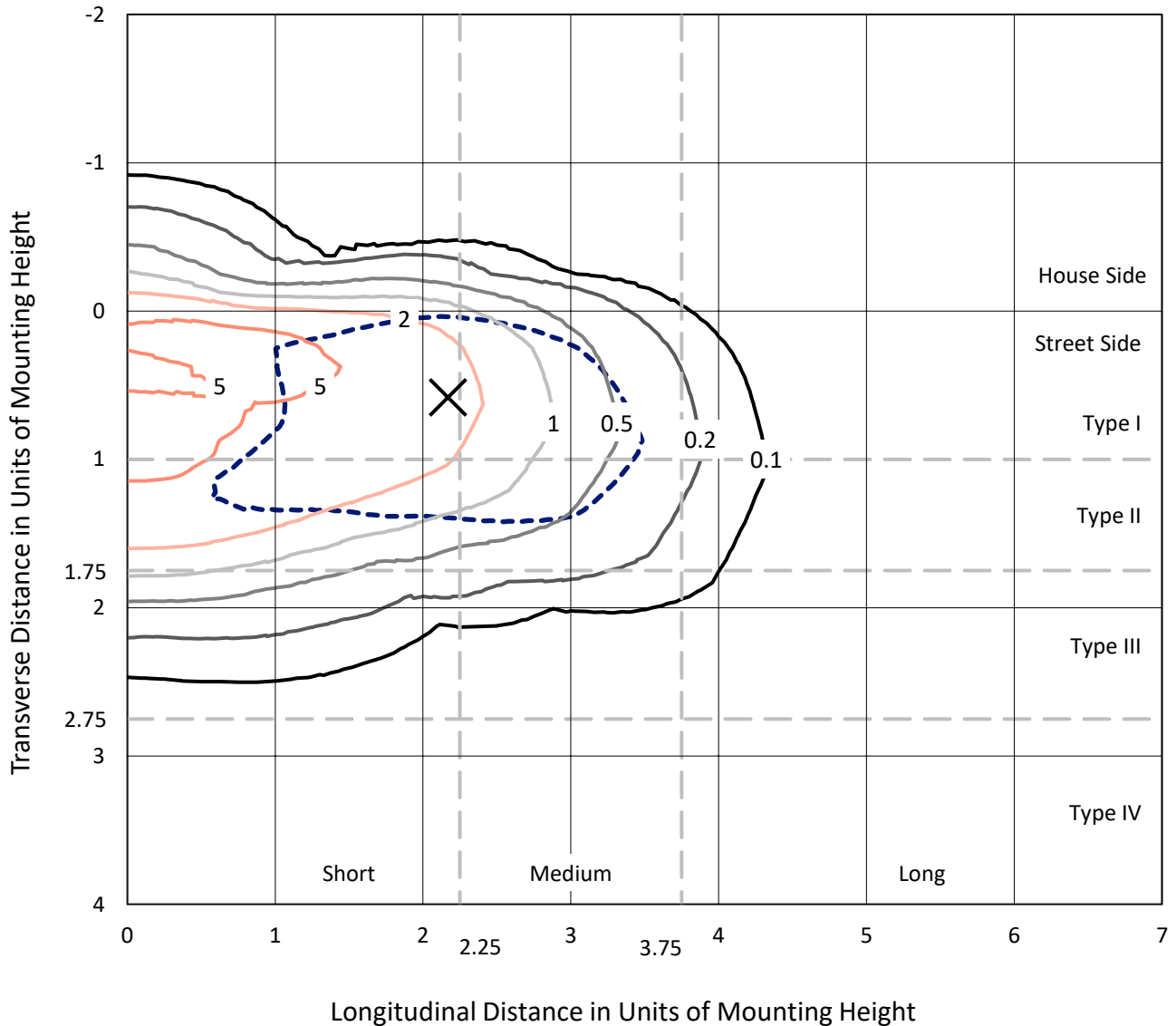
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

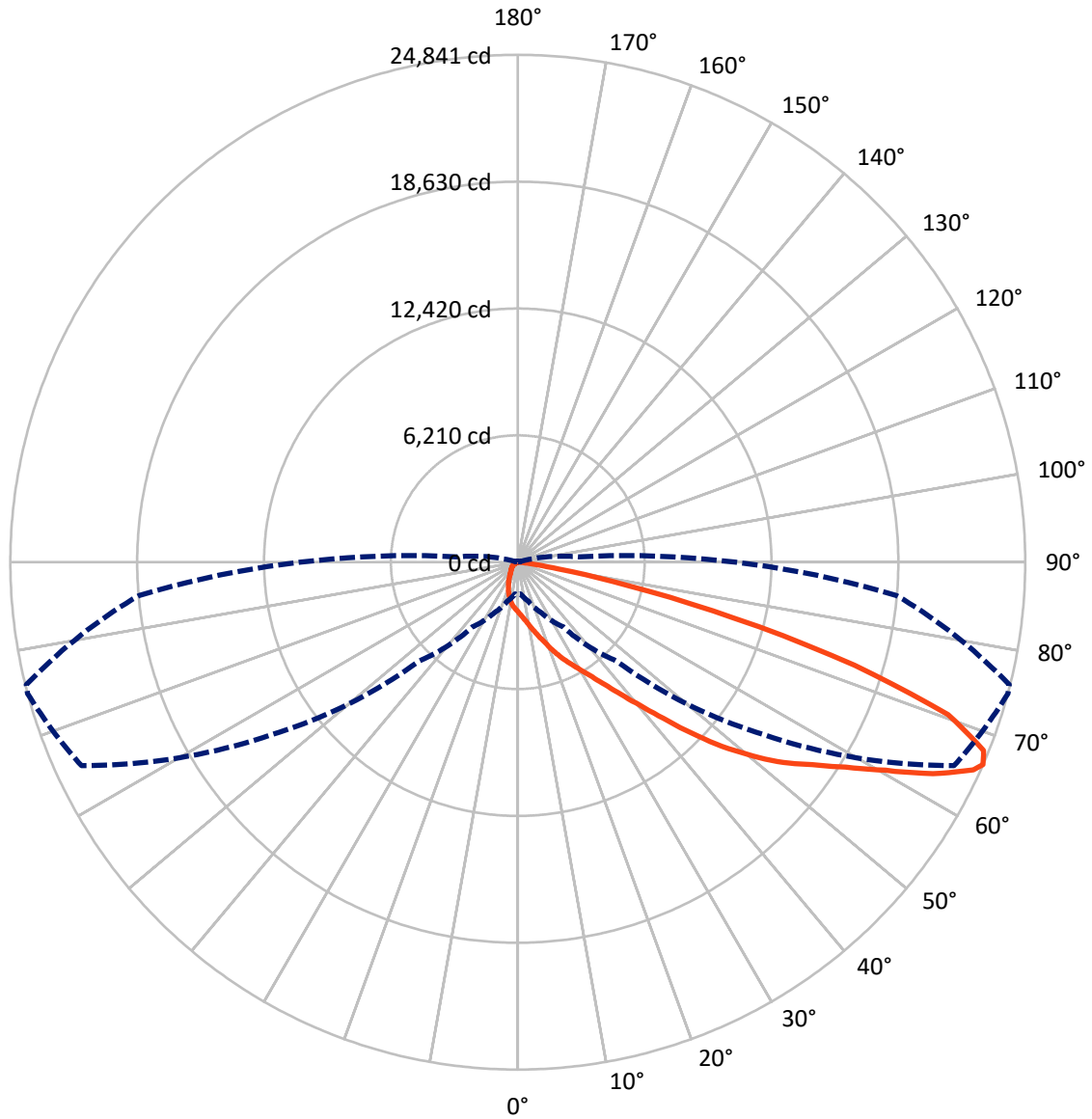
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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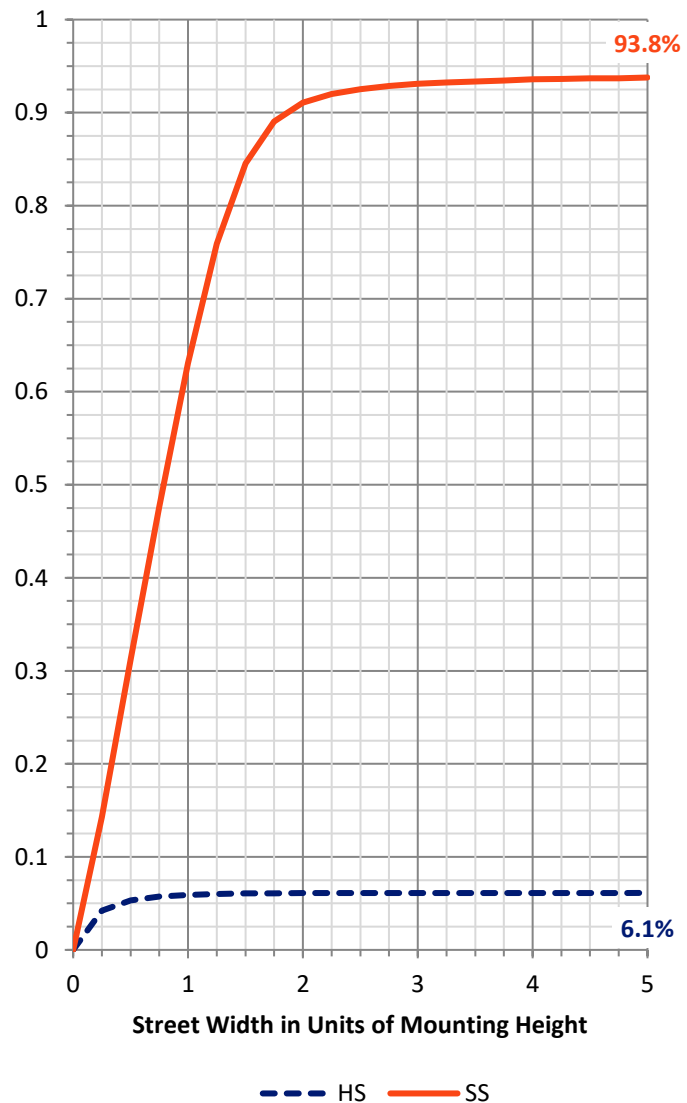
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1369.4	0.0	1369.4
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	20812.6	0.0	20812.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	22182.0	0.0	22182.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.0	1.1
10°-20°	688.6	3.1
20°-30°	1189.1	5.4
30°-40°	2144.8	9.7
40°-50°	3874.7	17.5
50°-60°	6040.6	27.2
60°-70°	5738.3	25.9
70°-80°	2150.6	9.7
80°-90°	121.3	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°	22182.0	100.0
0°-180°	22182.0	100.0



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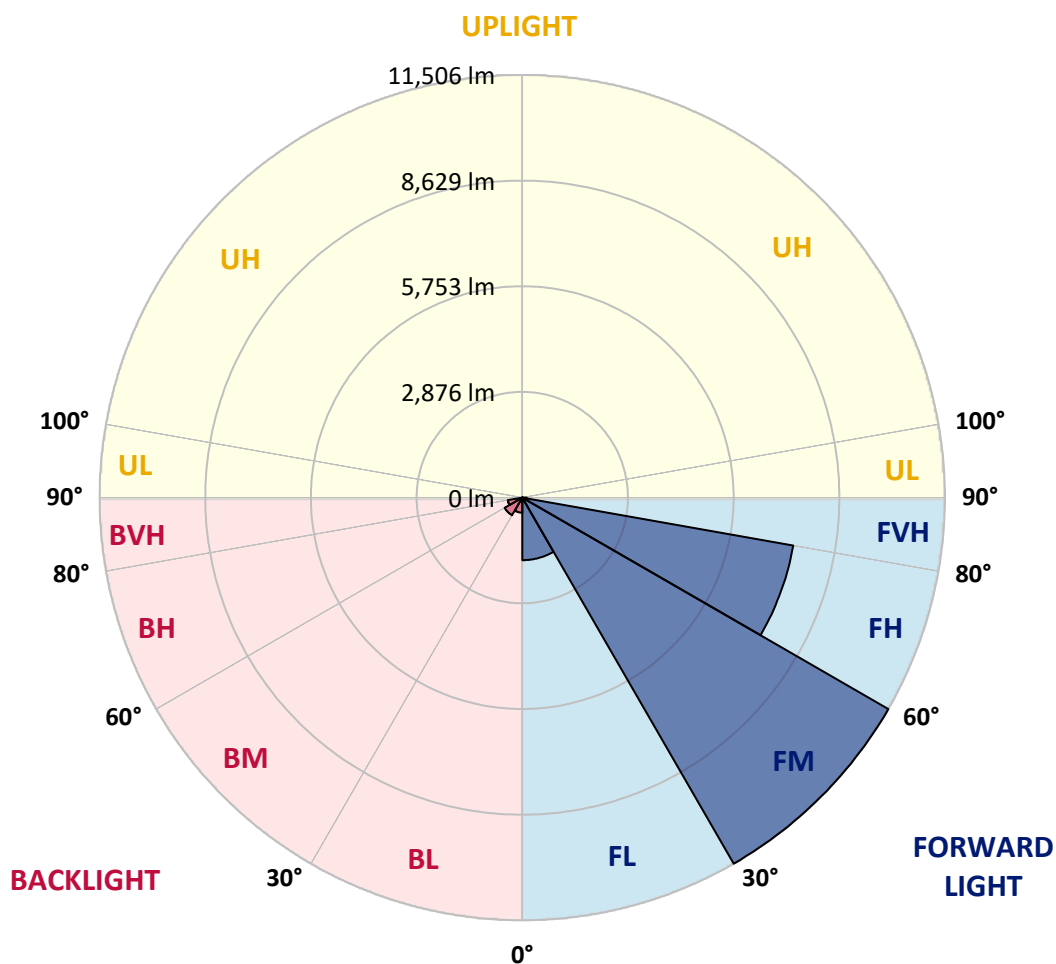
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1702.7	7.7			
FM (30°-60°)	11505.8	51.9			
FH (60°-80°)	7489.1	33.8			G3/7500
FVH (80°-90°)	115.1	0.5			G2/225
BL (0°-30°)	409.0	1.8	B1/500		
BM (30°-60°)	554.3	2.5	B1/1000		
BH (60°-80°)	399.9	1.8	B1/500		G1/500
BVH (80°-90°)	6.3	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8
2.5°	2898.2	2862.1	2873.6	2857.2	2819.5	2763.7	2714.5	2644.0	2573.4	2562.0	2483.2
5°	3280.4	3270.5	3257.4	3209.8	3183.6	3098.3	2996.6	2875.2	2729.3	2703.0	2560.3
7.5°	3541.1	3536.2	3542.8	3518.2	3495.2	3418.1	3309.9	3144.2	2917.9	2903.1	2665.3
10°	3626.4	3639.6	3664.2	3703.5	3739.6	3715.0	3633.0	3426.3	3162.3	3119.6	2785.0
12.5°	3577.2	3592.0	3651.0	3756.0	3872.5	3939.7	3906.9	3756.0	3421.4	3387.0	2919.5
15°	3450.9	3469.0	3552.6	3715.0	3923.3	4113.6	4195.6	4087.3	3723.2	3667.4	3081.9
17.5°	3264.0	3290.2	3409.9	3624.8	3910.2	4238.2	4469.5	4433.4	4044.7	3992.2	3259.0
20°	3122.9	3142.6	3244.3	3490.3	3854.4	4307.1	4730.3	4832.0	4441.6	4351.4	3467.3
22.5°	3216.4	3222.9	3257.4	3405.0	3754.4	4325.1	4959.9	5246.9	4863.1	4782.8	3683.8
25°	3674.0	3608.4	3573.9	3541.1	3733.0	4308.7	5168.2	5679.9	5283.0	5197.7	3898.7
27.5°	4395.7	4366.1	4192.3	3959.4	3915.1	4330.1	5306.0	6090.0	5678.3	5586.4	4108.6
30°	5181.3	5130.5	5023.9	4682.7	4339.9	4481.0	5406.0	6488.5	6145.7	6024.4	4300.5
32.5°	5903.0	5935.8	5776.7	5425.7	5028.8	4802.4	5535.6	6923.2	6682.1	6531.2	4523.6
35°	6744.4	6810.0	6565.6	6229.4	5765.2	5383.1	5788.2	7413.6	7362.8	7172.5	4868.0
37.5°	7598.9	7638.3	7489.0	7016.7	6598.4	6121.1	6263.8	8018.8	8200.9	8038.5	5279.7
40°	8317.3	8371.5	8261.6	7841.7	7395.6	6975.7	6954.3	8678.2	9198.1	9030.8	5893.2
42.5°	8866.8	8907.8	8911.1	8614.2	8212.4	8022.1	7835.1	9519.6	10447.9	10254.4	6605.0
45°	9560.6	9619.6	9585.2	9383.4	9083.3	9048.9	8952.1	10536.5	11943.8	11699.4	7528.4
47.5°	10633.3	10672.6	10587.3	10349.5	10044.4	10098.6	10041.2	11676.4	13469.1	13259.2	8484.6
50°	11377.9	11443.5	11564.9	11660.0	11438.6	11238.5	11067.9	12740.9	14917.4	14728.8	9462.2
52.5°	11369.7	11478.0	11861.8	12340.7	12824.5	12763.9	12273.4	13916.9	16300.1	16067.2	10380.7
55°	10603.7	10813.7	11377.9	12227.5	13567.5	14235.1	14012.0	15278.2	17494.1	17336.7	11445.2
57.5°	9022.6	9150.5	9934.5	11122.0	13152.6	14927.2	16026.2	17123.4	18926.0	18852.2	13098.4
60°	6068.7	6126.1	7134.8	8602.7	11197.5	14236.7	17502.3	19355.7	20689.2	20653.1	15028.9
62.5°	3477.2	3501.8	4233.3	5471.6	7968.0	12065.1	17627.0	22109.6	22803.4	22823.1	17262.9
65°	1871.4	1884.6	2475.0	3211.5	4848.4	8599.4	15850.7	23618.5	24512.4	24550.2	18647.2
66°	1615.6	1553.2	1969.9	2737.5	3857.7	6844.5	14727.1	23564.4	24840.5	24799.5	18598.0
67.5°	1228.5	1284.3	1572.9	2104.3	2858.8	4866.4	12158.6	22516.3	24591.2	24463.2	17841.8
70°	879.1	902.1	1120.2	1500.8	1946.9	2670.2	7769.5	18701.3	22350.7	22178.5	15544.0
72.5°	567.5	592.1	793.8	1085.8	1407.3	1458.1	4349.7	13511.8	17231.7	17207.1	11705.9
75°	405.1	428.1	524.9	777.4	1057.9	902.1	2094.5	9106.3	10954.7	10880.9	7241.4
77.5°	293.6	305.1	351.0	508.5	756.1	646.2	971.0	4863.1	5453.6	5711.1	3200.0
80°	168.9	178.8	244.4	310.0	511.7	441.2	464.2	1951.8	2012.5	1915.7	1000.5
82.5°	83.6	95.1	146.0	211.6	319.8	296.9	213.2	587.2	620.0	603.6	252.6
85°	19.7	24.6	82.0	139.4	155.8	132.9	103.3	172.2	213.2	208.3	96.8
87.5°	1.6	3.3	29.5	24.6	26.2	44.3	36.1	44.3	68.9	64.0	34.4
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°	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8	2425.8
2.5°	2447.1	2416.0	2325.8	2237.2	2163.4	2086.3	2015.8	1974.8	1958.4	1940.3	1948.5
5°	2481.6	2406.1	2224.1	2066.6	1912.4	1781.2	1676.3	1609.0	1576.2	1571.3	1563.1
7.5°	2527.5	2397.9	2115.8	1869.8	1668.1	1522.1	1402.4	1305.6	1276.1	1249.8	1228.5
10°	2583.3	2383.2	1981.3	1663.1	1448.3	1264.6	1107.1	992.3	933.3	916.9	928.3
12.5°	2642.3	2355.3	1840.3	1472.9	1225.2	990.7	844.7	787.3	770.9	764.3	766.0
15°	2701.4	2320.8	1692.7	1289.2	975.9	790.6	723.3	708.6	702.0	698.7	695.4
17.5°	2755.5	2265.1	1527.0	1110.4	790.6	675.8	651.2	638.0	624.9	620.0	611.8
20°	2819.5	2201.1	1377.7	910.3	669.2	611.8	582.3	557.7	538.0	524.9	523.2
22.5°	2880.1	2119.1	1221.9	754.5	610.1	549.5	501.9	475.7	452.7	436.3	441.2
25°	2913.0	2019.1	1082.5	657.7	556.0	487.1	434.6	401.8	377.2	369.0	367.4
27.5°	2913.0	1896.0	946.4	601.9	506.8	431.4	377.2	346.1	329.7	318.2	319.8
30°	2890.0	1759.9	820.1	559.3	464.2	382.2	331.3	303.4	290.3	282.1	280.5
32.5°	2871.9	1630.3	711.8	518.3	419.9	339.5	295.2	273.9	260.8	252.6	252.6
35°	2899.8	1518.8	628.2	477.3	378.9	306.7	267.3	247.7	234.5	228.0	226.3
37.5°	2973.6	1417.1	564.2	433.0	341.2	278.8	247.7	224.7	211.6	203.4	200.1
40°	3155.7	1359.7	516.7	392.0	305.1	255.9	224.7	203.4	187.0	178.8	177.1
42.5°	3447.7	1361.3	470.7	354.3	277.2	236.2	205.0	180.4	162.4	154.2	152.5
45°	3887.2	1423.7	434.6	318.2	252.6	214.9	183.7	157.5	141.1	132.9	132.9
47.5°	4413.7	1545.0	403.5	287.0	229.6	195.2	162.4	136.1	119.7	113.2	113.2
50°	4984.5	1702.5	372.3	254.2	209.9	173.9	139.4	118.1	105.0	100.1	100.1
52.5°	5566.8	1892.8	341.2	228.0	188.6	150.9	119.7	105.0	93.5	90.2	88.6
55°	6331.1	2135.5	308.4	200.1	165.7	129.6	106.6	91.8	78.7	73.8	72.2
57.5°	7507.1	2501.3	272.3	175.5	136.1	108.3	91.8	77.1	62.3	54.1	52.5
60°	8925.8	2947.4	234.5	154.2	109.9	88.6	73.8	59.0	45.9	36.1	34.4
62.5°	10254.4	3231.1	198.5	129.6	86.9	67.2	52.5	44.3	32.8	23.0	21.3
65°	10841.6	3136.0	164.0	105.0	68.9	47.6	34.4	31.2	19.7	9.8	8.2
66°	10646.4	2995.0	150.9	95.1	62.3	41.0	29.5	26.2	14.8	4.9	4.9
67.5°	10070.7	2662.0	131.2	82.0	54.1	32.8	23.0	19.7	8.2	1.6	0.0
70°	8629.0	2153.6	103.3	60.7	39.4	23.0	13.1	9.8	4.9	0.0	0.0
72.5°	6628.0	1604.1	82.0	45.9	27.9	13.1	6.6	3.3	4.9	0.0	0.0
75°	4061.1	916.9	64.0	34.4	18.0	8.2	4.9	0.0	4.9	1.6	0.0
77.5°	1802.6	411.7	42.6	23.0	13.1	6.6	3.3	0.0	3.3	1.6	0.0
80°	456.0	134.5	24.6	16.4	9.8	4.9	1.6	0.0	3.3	3.3	1.6
82.5°	124.7	49.2	18.0	13.1	8.2	4.9	1.6	0.0	3.3	3.3	3.3
85°	49.2	23.0	16.4	13.1	9.8	4.9	1.6	0.0	3.3	3.3	3.3
87.5°	23.0	16.4	16.4	14.8	11.5	4.9	1.6	0.0	3.3	1.6	3.3
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)