

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: P453948

Luminaire Tested: **GALN-SA5A-730-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453948  
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-SA5A-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 15592 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 - G3

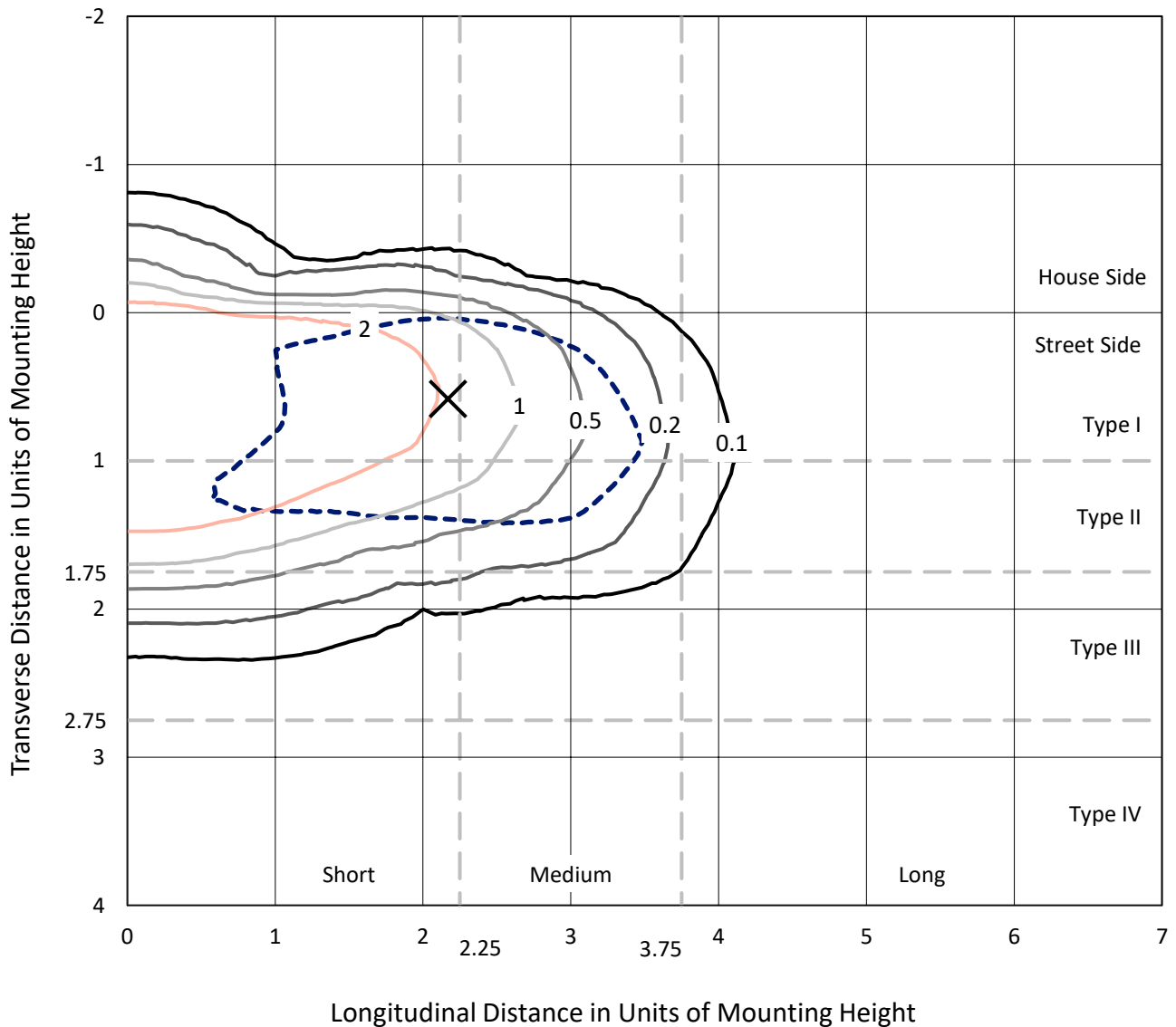
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

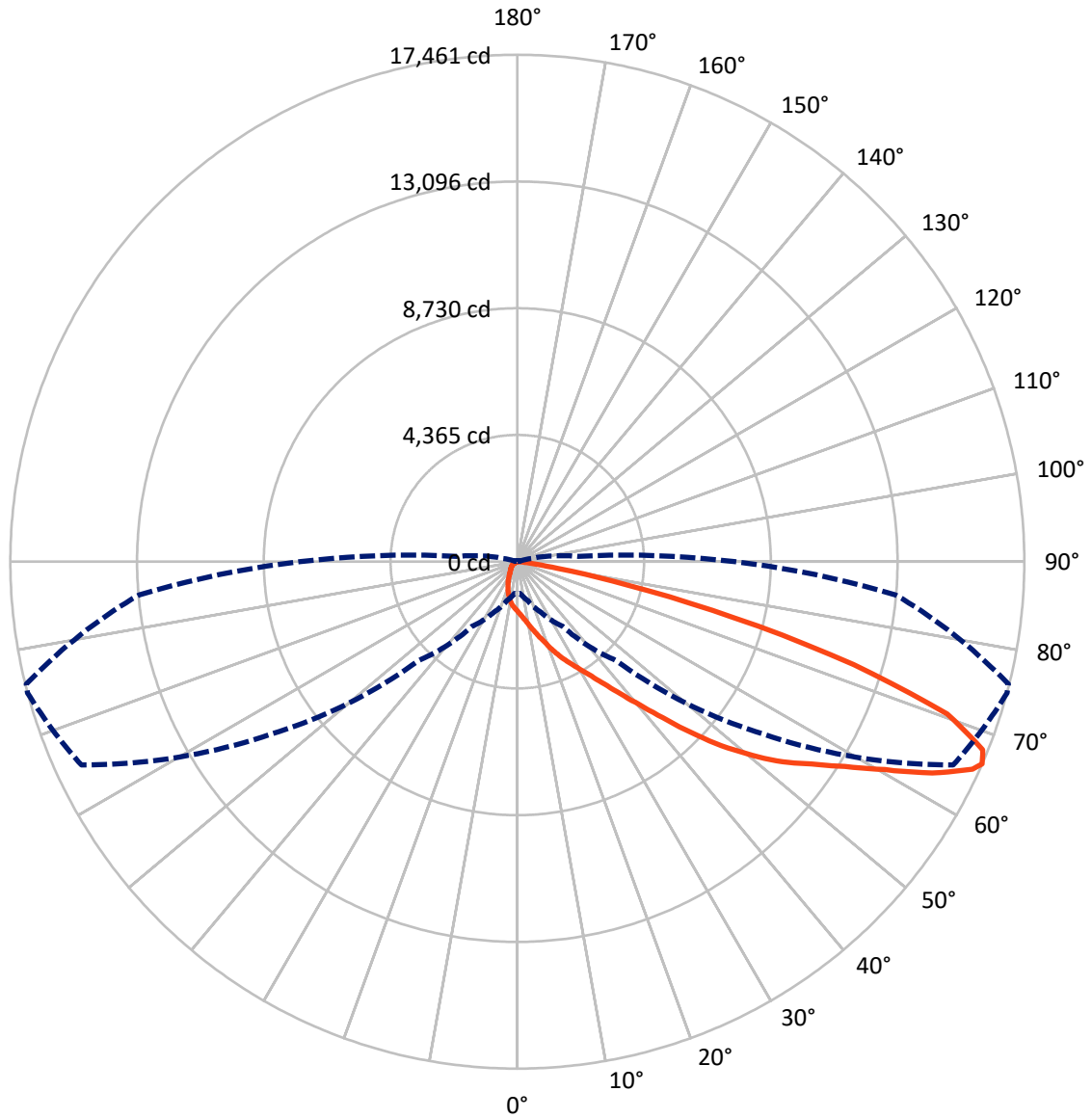
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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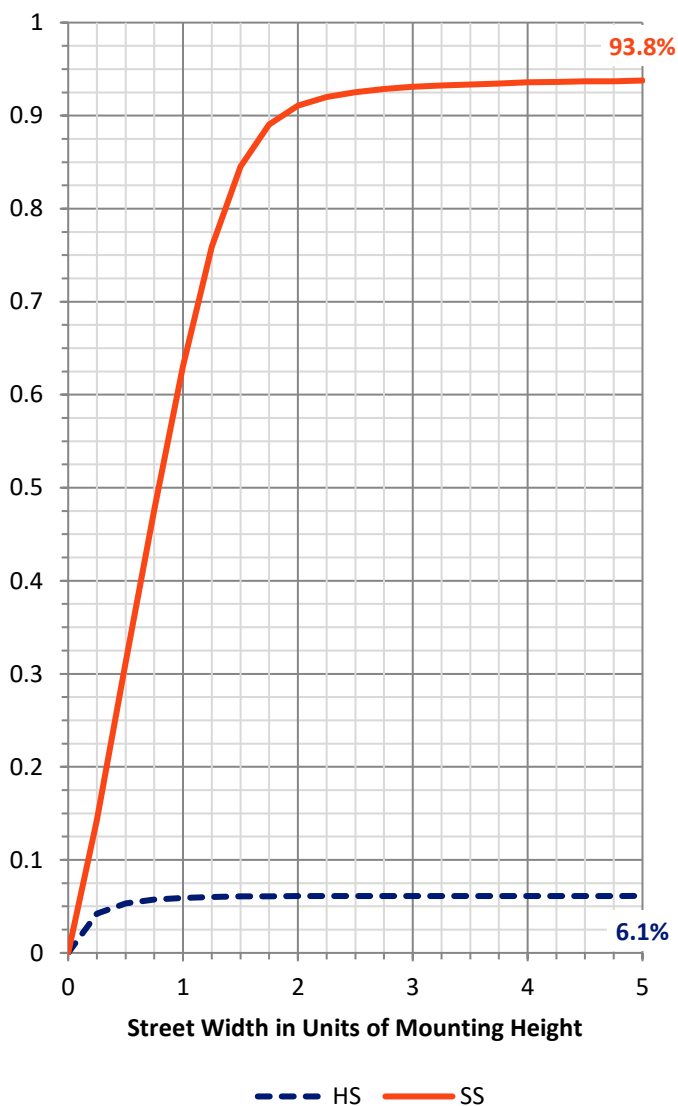
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	962.6	0.0	962.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	14629.4	0.0	14629.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	15592.0	0.0	15592.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.5	1.1
10°-20°	484.0	3.1
20°-30°	835.8	5.4
30°-40°	1507.6	9.7
40°-50°	2723.5	17.5
50°-60°	4246.0	27.2
60°-70°	4033.6	25.9
70°-80°	1511.7	9.7
80°-90°	85.3	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°	15592.0	100.0
0°-180°	15592.0	100.0

**Coefficient of Utilization**



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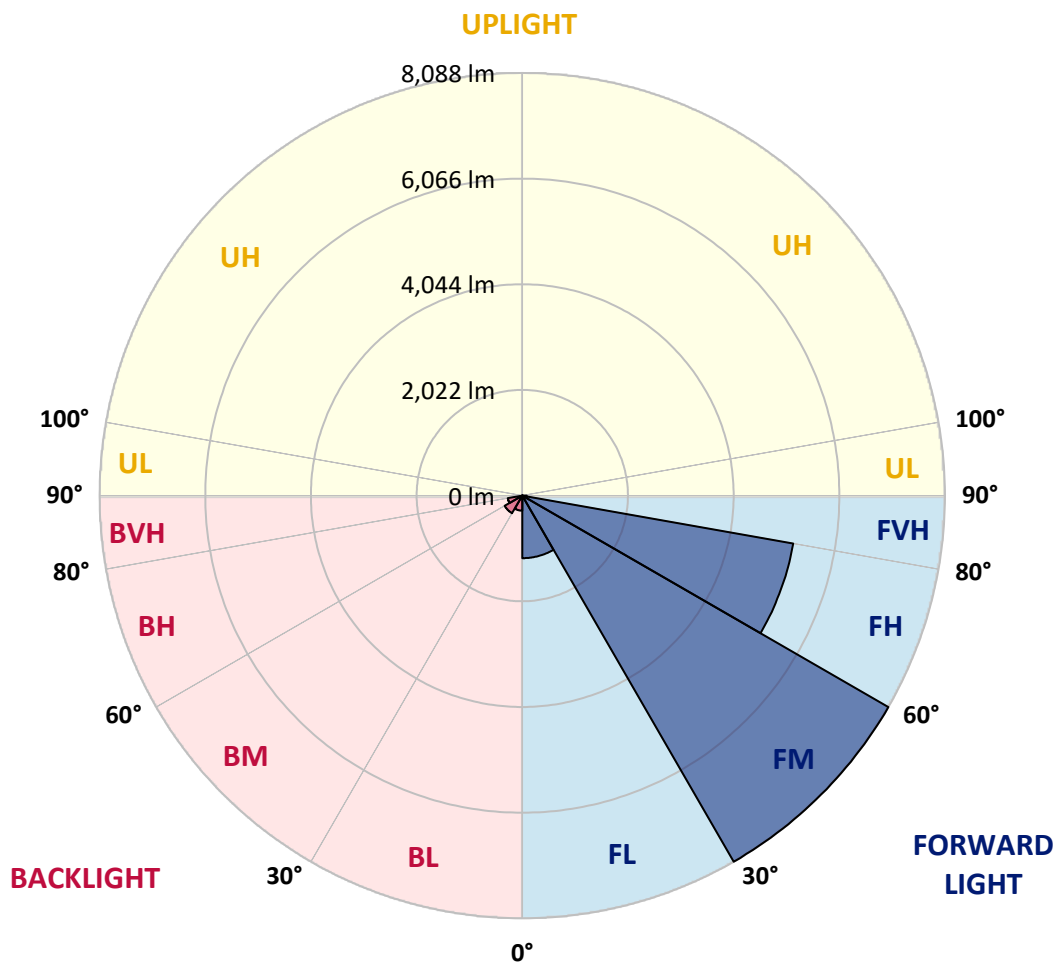
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.8	7.7			
FM (30°-60°)	8087.6	51.9			
FH (60°-80°)	5264.1	33.8			G3/7500
FVH (80°-90°)	80.9	0.5			G1/100
BL (0°-30°)	287.5	1.8	B1/500		
BM (30°-60°)	389.6	2.5	B1/1000		
BH (60°-80°)	281.1	1.8	B1/500		G1/500
BVH (80°-90°)	4.4	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°	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	2037.2	2011.8	2019.9	2008.4	1981.8	1942.6	1908.0	1858.5	1808.9	1800.8	1745.5
5°	2305.8	2298.9	2289.7	2256.2	2237.8	2177.8	2106.3	2021.0	1918.4	1900.0	1799.7
7.5°	2489.1	2485.7	2490.3	2473.0	2456.8	2402.6	2326.6	2210.1	2051.0	2040.6	1873.5
10°	2549.1	2558.3	2575.6	2603.2	2628.6	2611.3	2553.7	2408.4	2222.8	2192.8	1957.6
12.5°	2514.5	2524.9	2566.4	2640.1	2722.0	2769.3	2746.2	2640.1	2404.9	2380.7	2052.2
15°	2425.7	2438.4	2497.2	2611.3	2757.7	2891.5	2949.1	2873.0	2617.1	2577.9	2166.3
17.5°	2294.3	2312.7	2396.9	2547.9	2748.5	2979.1	3141.7	3116.3	2843.1	2806.2	2290.8
20°	2195.1	2209.0	2280.4	2453.4	2709.3	3027.5	3325.0	3396.4	3122.1	3058.6	2437.2
22.5°	2260.8	2265.4	2289.7	2393.4	2639.0	3040.2	3486.4	3688.1	3418.3	3361.9	2589.4
25°	2582.5	2536.4	2512.2	2489.1	2624.0	3028.7	3632.8	3992.5	3713.5	3653.5	2740.4
27.5°	3089.8	3069.0	2946.8	2783.1	2752.0	3043.7	3729.6	4280.7	3991.3	3926.8	2888.0
30°	3642.0	3606.3	3531.3	3291.5	3050.6	3149.7	3800.0	4560.9	4319.9	4234.6	3022.9
32.5°	4149.3	4172.3	4060.5	3813.8	3534.8	3375.7	3891.0	4866.4	4696.9	4590.8	3179.7
35°	4740.7	4786.8	4615.1	4378.7	4052.4	3783.8	4068.6	5211.1	5175.4	5041.6	3421.8
37.5°	5341.4	5369.1	5264.1	4932.1	4638.1	4302.6	4402.9	5636.5	5764.5	5650.4	3711.2
40°	5846.4	5884.4	5807.2	5512.0	5198.4	4903.3	4888.3	6100.0	6465.5	6347.9	4142.4
42.5°	6232.6	6261.4	6263.7	6055.0	5772.6	5638.8	5507.4	6691.4	7344.0	7207.9	4642.7
45°	6720.3	6761.8	6737.5	6595.7	6384.8	6360.6	6292.5	7406.2	8395.4	8223.6	5291.8
47.5°	7474.3	7501.9	7442.0	7274.8	7060.4	7098.4	7058.1	8207.5	9467.6	9320.0	5964.0
50°	7997.7	8043.8	8129.1	8196.0	8040.3	7899.7	7779.8	8955.7	10485.6	10353.0	6651.1
52.5°	7991.9	8068.0	8337.8	8674.4	9014.5	8971.9	8627.2	9782.4	11457.5	11293.8	7296.7
55°	7453.5	7601.1	7997.7	8594.9	9536.8	10006.0	9849.2	10739.3	12296.8	12186.2	8044.9
57.5°	6342.1	6432.0	6983.1	7817.8	9245.1	10492.5	11265.0	12036.3	13303.3	13251.4	9207.1
60°	4265.7	4306.1	5015.1	6047.0	7870.8	10007.2	12302.6	13605.4	14542.7	14517.3	10564.0
62.5°	2444.1	2461.4	2975.6	3846.1	5600.8	8480.7	12390.2	15541.1	16028.8	16042.6	12134.3
65°	1315.5	1324.7	1739.7	2257.4	3408.0	6044.7	11141.6	16601.8	17230.1	17256.6	13107.3
66°	1135.6	1091.8	1384.6	1924.2	2711.6	4811.1	10351.9	16563.7	17460.7	17431.9	13072.7
67.5°	863.5	902.7	1105.6	1479.2	2009.5	3420.7	8546.4	15827.0	17285.4	17195.5	12541.2
70°	618.0	634.1	787.4	1054.9	1368.5	1876.9	5461.3	13145.4	15710.6	15589.5	10926.0
72.5°	398.9	416.2	558.0	763.2	989.2	1024.9	3057.5	9497.6	12112.4	12095.1	8228.2
75°	284.8	300.9	368.9	546.5	743.6	634.1	1472.3	6400.9	7700.2	7648.3	5090.1
77.5°	206.4	214.4	246.7	357.4	531.5	454.2	682.5	3418.3	3833.4	4014.4	2249.3
80°	118.7	125.7	171.8	217.9	359.7	310.1	326.3	1372.0	1414.6	1346.6	703.3
82.5°	58.8	66.9	102.6	148.7	224.8	208.7	149.9	412.7	435.8	424.3	177.5
85°	13.8	17.3	57.6	98.0	109.5	93.4	72.6	121.1	149.9	146.4	68.0
87.5°	1.2	2.3	20.8	17.3	18.4	31.1	25.4	31.1	48.4	45.0	24.2
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°	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1720.1	1698.2	1634.8	1572.6	1520.7	1466.5	1416.9	1388.1	1376.6	1363.9	1369.6
5°	1744.3	1691.3	1563.3	1452.7	1344.3	1252.0	1178.3	1131.0	1107.9	1104.5	1098.7
7.5°	1776.6	1685.5	1487.2	1314.3	1172.5	1069.9	985.7	917.7	897.0	878.5	863.5
10°	1815.8	1675.2	1392.7	1169.0	1018.0	888.9	778.2	697.5	656.0	644.5	652.5
12.5°	1857.3	1655.6	1293.6	1035.3	861.2	696.4	593.7	553.4	541.9	537.3	538.4
15°	1898.8	1631.4	1189.8	906.2	686.0	555.7	508.4	498.1	493.4	491.1	488.8
17.5°	1936.9	1592.2	1073.4	780.5	555.7	475.0	457.7	448.5	439.3	435.8	430.0
20°	1981.8	1547.2	968.4	639.9	470.4	430.0	409.3	392.0	378.2	368.9	367.8
22.5°	2024.5	1489.5	858.9	530.3	428.9	386.2	352.8	334.3	318.2	306.7	310.1
25°	2047.6	1419.2	760.9	462.3	390.8	342.4	305.5	282.5	265.2	259.4	258.2
27.5°	2047.6	1332.8	665.2	423.1	356.2	303.2	265.2	243.3	231.7	223.7	224.8
30°	2031.4	1237.1	576.5	393.1	326.3	268.6	232.9	213.3	204.1	198.3	197.1
32.5°	2018.7	1146.0	500.4	364.3	295.1	238.7	207.5	192.5	183.3	177.5	177.5
35°	2038.3	1067.6	441.6	335.5	266.3	215.6	187.9	174.1	164.9	160.3	159.1
37.5°	2090.2	996.1	396.6	304.4	239.8	196.0	174.1	157.9	148.7	143.0	140.7
40°	2218.2	955.8	363.2	275.5	214.4	179.9	157.9	143.0	131.4	125.7	124.5
42.5°	2423.4	956.9	330.9	249.0	194.8	166.0	144.1	126.8	114.1	108.4	107.2
45°	2732.4	1000.7	305.5	223.7	177.5	151.0	129.1	110.7	99.1	93.4	93.4
47.5°	3102.5	1086.0	283.6	201.8	161.4	137.2	114.1	95.7	84.2	79.6	79.6
50°	3503.7	1196.7	261.7	178.7	147.6	122.2	98.0	83.0	73.8	70.3	70.3
52.5°	3912.9	1330.4	239.8	160.3	132.6	106.1	84.2	73.8	65.7	63.4	62.3
55°	4450.2	1501.1	216.7	140.7	116.4	91.1	74.9	64.6	55.3	51.9	50.7
57.5°	5276.8	1758.2	191.4	123.4	95.7	76.1	64.6	54.2	43.8	38.0	36.9
60°	6274.1	2071.8	164.9	108.4	77.2	62.3	51.9	41.5	32.3	25.4	24.2
62.5°	7207.9	2271.2	139.5	91.1	61.1	47.3	36.9	31.1	23.1	16.1	15.0
65°	7620.7	2204.3	115.3	73.8	48.4	33.4	24.2	21.9	13.8	6.9	5.8
66°	7483.5	2105.2	106.1	66.9	43.8	28.8	20.8	18.4	10.4	3.5	3.5
67.5°	7078.8	1871.2	92.2	57.6	38.0	23.1	16.1	13.8	5.8	1.2	0.0
70°	6065.4	1513.8	72.6	42.7	27.7	16.1	9.2	6.9	3.5	0.0	0.0
72.5°	4658.9	1127.5	57.6	32.3	19.6	9.2	4.6	2.3	3.5	0.0	0.0
75°	2854.6	644.5	45.0	24.2	12.7	5.8	3.5	0.0	3.5	1.2	0.0
77.5°	1267.0	289.4	30.0	16.1	9.2	4.6	2.3	0.0	2.3	1.2	0.0
80°	320.5	94.5	17.3	11.5	6.9	3.5	1.2	0.0	2.3	2.3	1.2
82.5°	87.6	34.6	12.7	9.2	5.8	3.5	1.2	0.0	2.3	2.3	2.3
85°	34.6	16.1	11.5	9.2	6.9	3.5	1.2	0.0	2.3	2.3	2.3
87.5°	16.1	11.5	11.5	10.4	8.1	3.5	1.2	0.0	2.3	1.2	2.3
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)