

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: P453252

Luminaire Tested: **GALN-SA4B-730-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453252  
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-SA4B-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA 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: 15325 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

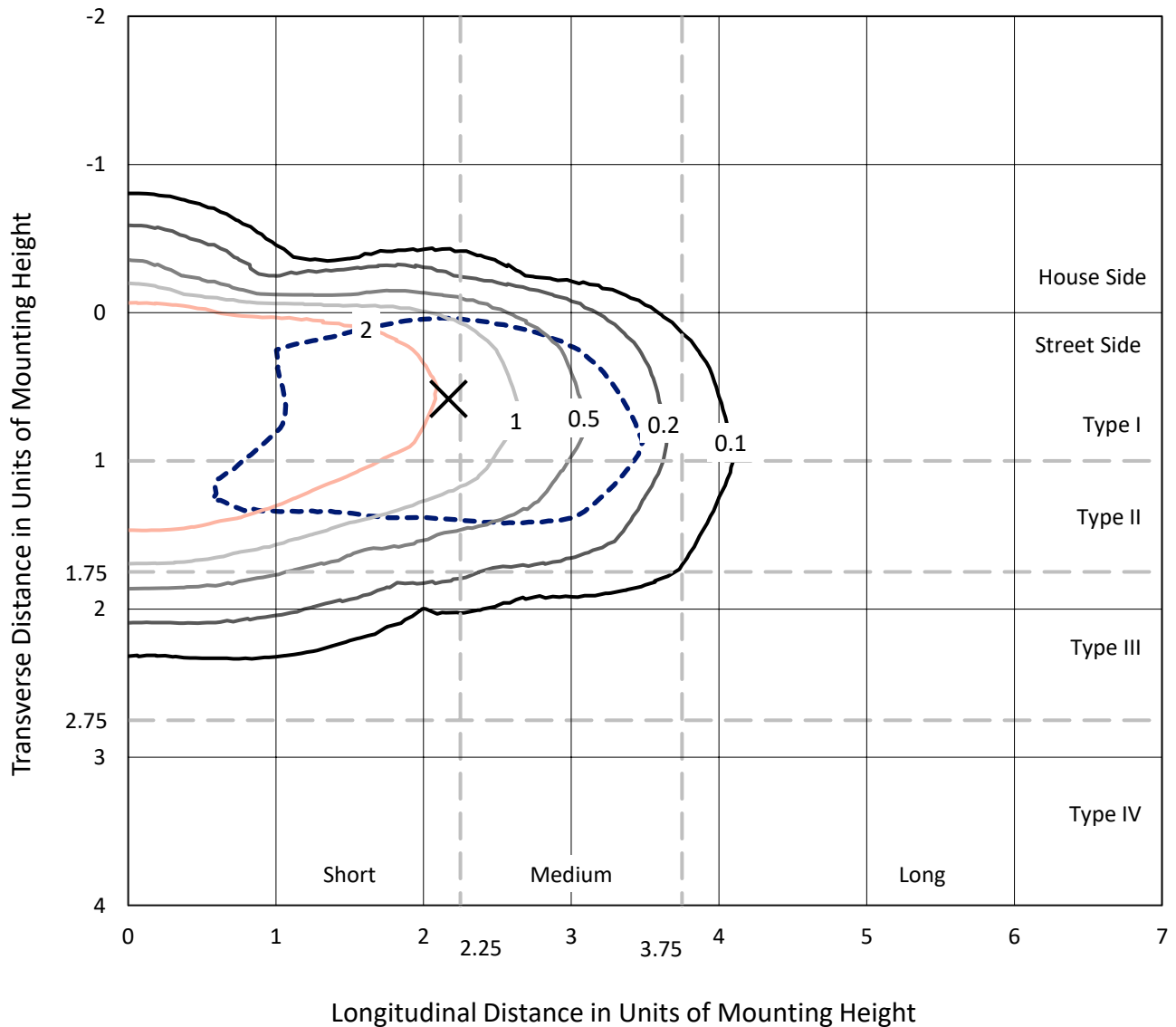
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

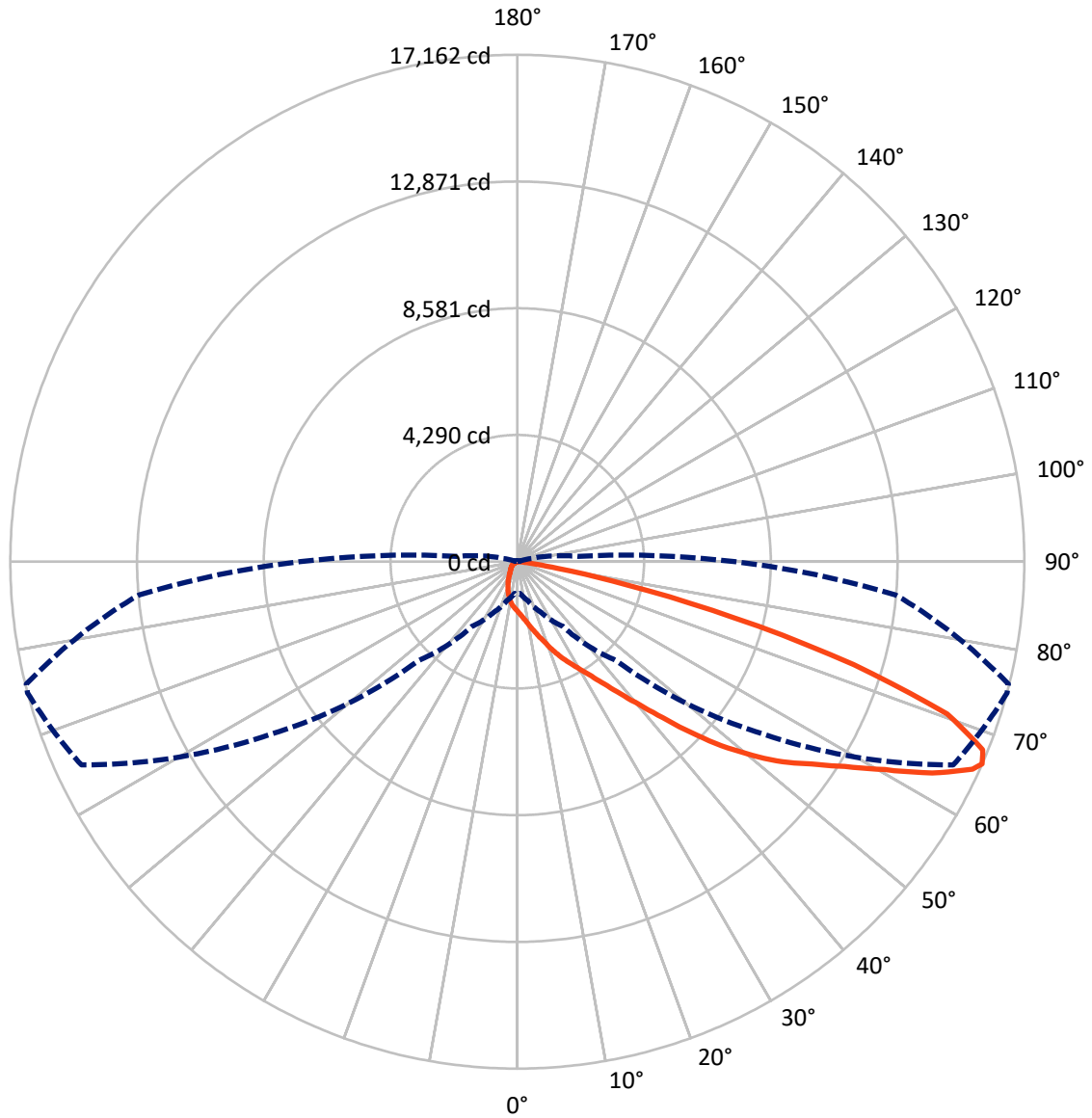
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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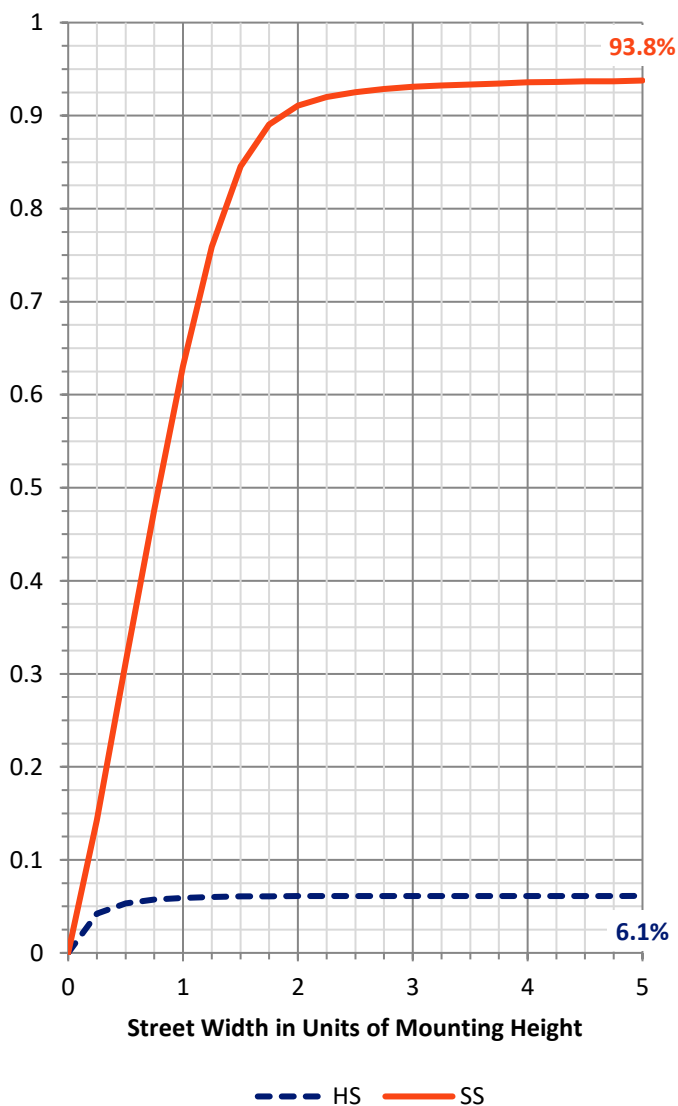
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	946.1	0.0	946.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	14378.9	0.0	14378.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	15325.0	0.0	15325.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.6	1.1
10°-20°	475.7	3.1
20°-30°	821.5	5.4
30°-40°	1481.8	9.7
40°-50°	2676.9	17.5
50°-60°	4173.3	27.2
60°-70°	3964.5	25.9
70°-80°	1485.8	9.7
80°-90°	83.8	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°	15325.0	100.0
0°-180°	15325.0	100.0

**Coefficient of Utilization**



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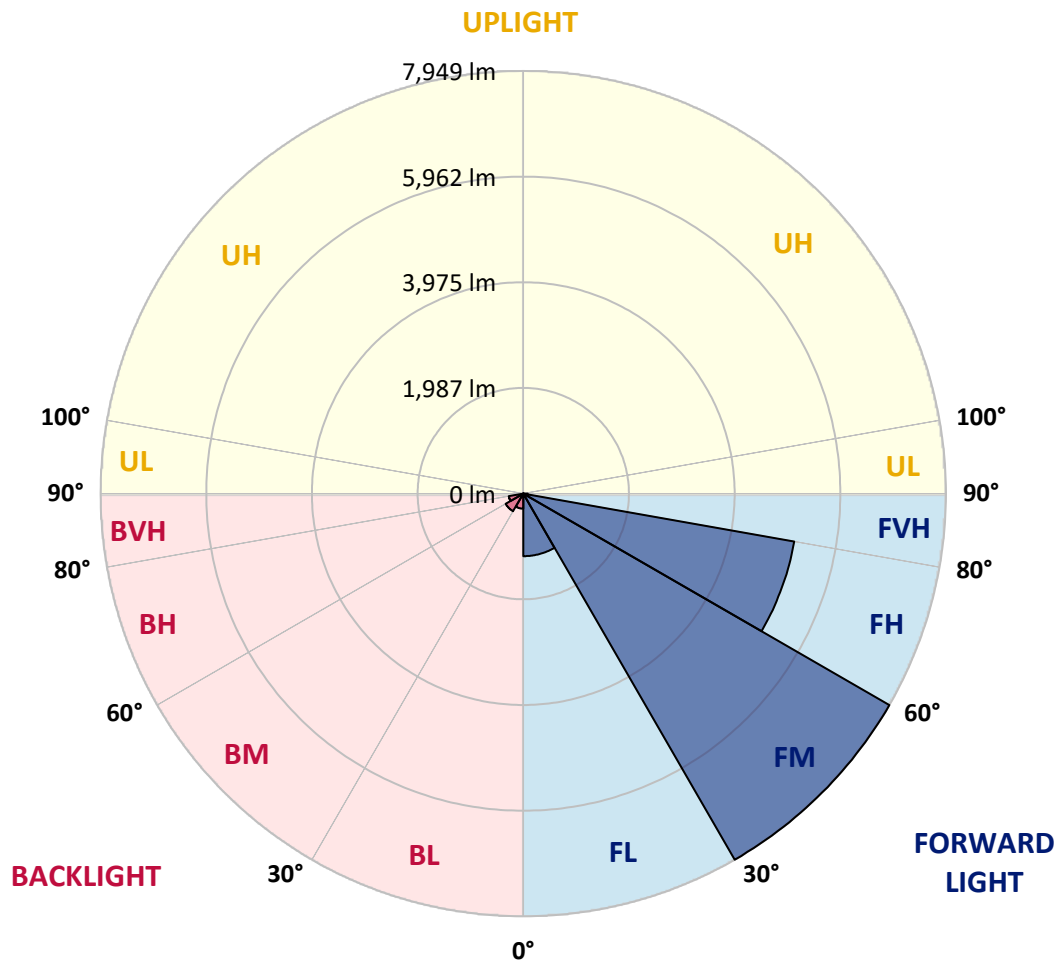
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.3	7.7			
FM (30°-60°)	7949.1	51.9			
FH (60°-80°)	5174.0	33.8			G3/7500
FVH (80°-90°)	79.5	0.5			G1/100
BL (0°-30°)	282.5	1.8	B1/500		
BM (30°-60°)	383.0	2.5	B1/1000		
BH (60°-80°)	276.3	1.8	B1/500		G1/500
BVH (80°-90°)	4.3	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°	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9
2.5°	2002.3	1977.4	1985.3	1974.0	1947.9	1909.4	1875.4	1826.7	1777.9	1770.0	1715.6
5°	2266.3	2259.5	2250.5	2217.6	2199.5	2140.5	2070.3	1986.4	1885.6	1867.4	1768.9
7.5°	2446.5	2443.1	2447.6	2430.6	2414.8	2361.5	2286.7	2172.3	2015.9	2005.7	1841.4
10°	2505.4	2514.5	2531.5	2558.7	2583.6	2566.6	2509.9	2367.2	2184.7	2155.3	1924.1
12.5°	2471.4	2481.6	2522.4	2594.9	2675.4	2721.8	2699.2	2594.9	2363.8	2340.0	2017.0
15°	2384.2	2396.6	2454.4	2566.6	2710.5	2842.0	2898.6	2823.8	2572.3	2533.7	2129.2
17.5°	2255.0	2273.1	2355.8	2504.3	2701.4	2928.1	3087.9	3062.9	2794.4	2758.1	2251.6
20°	2157.5	2171.1	2241.4	2411.4	2662.9	2975.7	3268.0	3338.3	3068.6	3006.3	2395.5
22.5°	2222.1	2226.7	2250.5	2352.4	2593.8	2988.1	3426.7	3625.0	3359.8	3304.3	2545.1
25°	2538.3	2492.9	2469.2	2446.5	2579.1	2976.8	3570.6	3924.1	3649.9	3591.0	2693.5
27.5°	3036.9	3016.5	2896.4	2735.4	2704.8	2991.5	3665.8	4207.4	3923.0	3859.5	2838.6
30°	3579.6	3544.5	3470.9	3235.2	2998.3	3095.8	3734.9	4482.8	4245.9	4162.1	2971.1
32.5°	4078.2	4100.9	3991.0	3748.5	3474.3	3317.9	3824.4	4783.1	4616.5	4512.2	3125.2
35°	4659.5	4704.9	4536.0	4303.7	3983.0	3719.0	3998.9	5121.9	5086.7	4955.3	3363.2
37.5°	5249.9	5277.1	5174.0	4847.6	4558.7	4228.9	4327.5	5540.0	5665.8	5553.6	3647.6
40°	5746.2	5783.6	5707.7	5417.6	5109.4	4819.3	4804.6	5995.5	6354.7	6239.2	4071.4
42.5°	6125.9	6154.2	6156.4	5951.3	5673.7	5542.3	5413.1	6576.8	7218.2	7084.5	4563.2
45°	6605.2	6646.0	6622.2	6482.8	6275.4	6251.6	6184.8	7279.4	8251.7	8082.8	5201.2
47.5°	7346.3	7373.5	7314.5	7150.2	6939.5	6976.9	6937.2	8066.9	9305.5	9160.4	5861.8
50°	7860.7	7906.0	7989.9	8055.6	7902.6	7764.4	7646.5	8802.4	10306.1	10175.8	6537.2
52.5°	7855.0	7929.8	8195.0	8525.9	8860.2	8818.2	8479.4	9614.8	11261.3	11100.4	7171.8
55°	7325.9	7470.9	7860.7	8447.7	9373.5	9834.7	9680.6	10555.4	12086.3	11977.5	7907.2
57.5°	6233.5	6321.9	6863.5	7683.9	9086.8	10312.9	11072.1	11830.2	13075.5	13024.5	9049.4
60°	4192.7	4232.3	4929.2	5943.4	7736.1	9835.8	12091.9	13372.4	14293.7	14268.7	10383.1
62.5°	2402.3	2419.3	2924.7	3780.2	5504.9	8335.5	12178.0	15275.0	15754.3	15767.9	11926.5
65°	1292.9	1302.0	1709.9	2218.7	3349.6	5941.1	10950.8	16317.5	16935.0	16961.1	12882.9
66°	1116.2	1073.1	1360.9	1891.2	2665.2	4728.7	10174.6	16280.1	17161.7	17133.3	12848.9
67.5°	848.7	887.3	1086.7	1453.8	1975.1	3362.1	8400.1	15556.0	16989.4	16901.0	12326.5
70°	607.4	623.2	773.9	1036.8	1345.1	1844.8	5367.8	12920.3	15441.5	15322.6	10738.9
72.5°	392.1	409.1	548.4	750.2	972.2	1007.4	3005.1	9335.0	11905.0	11888.0	8087.3
75°	279.9	295.8	362.6	537.1	730.9	623.2	1447.0	6291.3	7568.4	7517.4	5002.9
77.5°	202.8	210.8	242.5	351.3	522.4	446.5	670.8	3359.8	3767.7	3945.7	2210.8
80°	116.7	123.5	168.8	214.2	353.5	304.8	320.7	1348.5	1390.4	1323.5	691.2
82.5°	57.8	65.7	100.9	146.2	221.0	205.1	147.3	405.7	428.3	417.0	174.5
85°	13.6	17.0	56.7	96.3	107.6	91.8	71.4	119.0	147.3	143.9	66.9
87.5°	1.1	2.3	20.4	17.0	18.1	30.6	24.9	30.6	47.6	44.2	23.8
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°	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9	1675.9
2.5°	1690.7	1669.1	1606.8	1545.6	1494.6	1441.4	1392.7	1364.3	1353.0	1340.5	1346.2
5°	1714.5	1662.3	1536.6	1427.8	1321.3	1230.6	1158.1	1111.6	1089.0	1085.6	1079.9
7.5°	1746.2	1656.7	1461.8	1291.8	1152.4	1051.6	968.8	902.0	881.6	863.5	848.7
10°	1784.7	1646.5	1368.9	1149.0	1000.6	873.7	764.9	685.6	644.8	633.4	641.4
12.5°	1825.5	1627.2	1271.4	1017.6	846.5	684.4	583.6	543.9	532.6	528.1	529.2
15°	1866.3	1603.4	1169.4	890.7	674.2	546.2	499.7	489.5	485.0	482.7	480.5
17.5°	1903.7	1564.9	1055.0	767.1	546.2	466.9	449.9	440.8	431.7	428.3	422.7
20°	1947.9	1520.7	951.9	628.9	462.3	422.7	402.3	385.3	371.7	362.6	361.5
22.5°	1989.8	1464.0	844.2	521.3	421.5	379.6	346.7	328.6	312.8	301.4	304.8
25°	2012.5	1394.9	747.9	454.4	384.1	336.5	300.3	277.6	260.6	255.0	253.8
27.5°	2012.5	1309.9	653.8	415.9	350.1	298.0	260.6	239.1	227.8	219.8	221.0
30°	1996.6	1215.9	566.6	386.4	320.7	264.0	228.9	209.6	200.6	194.9	193.8
32.5°	1984.2	1126.4	491.8	358.1	290.1	234.6	204.0	189.2	180.2	174.5	174.5
35°	2003.4	1049.3	434.0	329.7	261.8	211.9	184.7	171.1	162.0	157.5	156.4
37.5°	2054.4	979.0	389.8	299.2	235.7	192.6	171.1	155.2	146.2	140.5	138.2
40°	2180.2	939.4	356.9	270.8	210.8	176.8	155.2	140.5	129.2	123.5	122.4
42.5°	2381.9	940.5	325.2	244.8	191.5	163.2	141.6	124.6	112.2	106.5	105.4
45°	2685.6	983.6	300.3	219.8	174.5	148.4	126.9	108.8	97.5	91.8	91.8
47.5°	3049.3	1067.4	278.8	198.3	158.6	134.8	112.2	94.1	82.7	78.2	78.2
50°	3443.7	1176.2	257.2	175.6	145.0	120.1	96.3	81.6	72.5	69.1	69.1
52.5°	3845.9	1307.7	235.7	157.5	130.3	104.3	82.7	72.5	64.6	62.3	61.2
55°	4374.0	1475.4	213.0	138.2	114.4	89.5	73.7	63.5	54.4	51.0	49.9
57.5°	5186.5	1728.1	188.1	121.2	94.1	74.8	63.5	53.3	43.1	37.4	36.3
60°	6166.6	2036.3	162.0	106.5	75.9	61.2	51.0	40.8	31.7	24.9	23.8
62.5°	7084.5	2232.3	137.1	89.5	60.1	46.5	36.3	30.6	22.7	15.9	14.7
65°	7490.2	2166.6	113.3	72.5	47.6	32.9	23.8	21.5	13.6	6.8	5.7
66°	7355.3	2069.1	104.3	65.7	43.1	28.3	20.4	18.1	10.2	3.4	3.4
67.5°	6957.6	1839.1	90.7	56.7	37.4	22.7	15.9	13.6	5.7	1.1	0.0
70°	5961.5	1487.8	71.4	41.9	27.2	15.9	9.1	6.8	3.4	0.0	0.0
72.5°	4579.1	1108.2	56.7	31.7	19.3	9.1	4.5	2.3	3.4	0.0	0.0
75°	2805.7	633.4	44.2	23.8	12.5	5.7	3.4	0.0	3.4	1.1	0.0
77.5°	1245.3	284.4	29.5	15.9	9.1	4.5	2.3	0.0	2.3	1.1	0.0
80°	315.0	92.9	17.0	11.3	6.8	3.4	1.1	0.0	2.3	2.3	1.1
82.5°	86.1	34.0	12.5	9.1	5.7	3.4	1.1	0.0	2.3	2.3	2.3
85°	34.0	15.9	11.3	9.1	6.8	3.4	1.1	0.0	2.3	2.3	2.3
87.5°	15.9	11.3	11.3	10.2	7.9	3.4	1.1	0.0	2.3	1.1	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)