

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: P383098

Luminaire Tested: **GLEON-SA4B-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15248.5 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

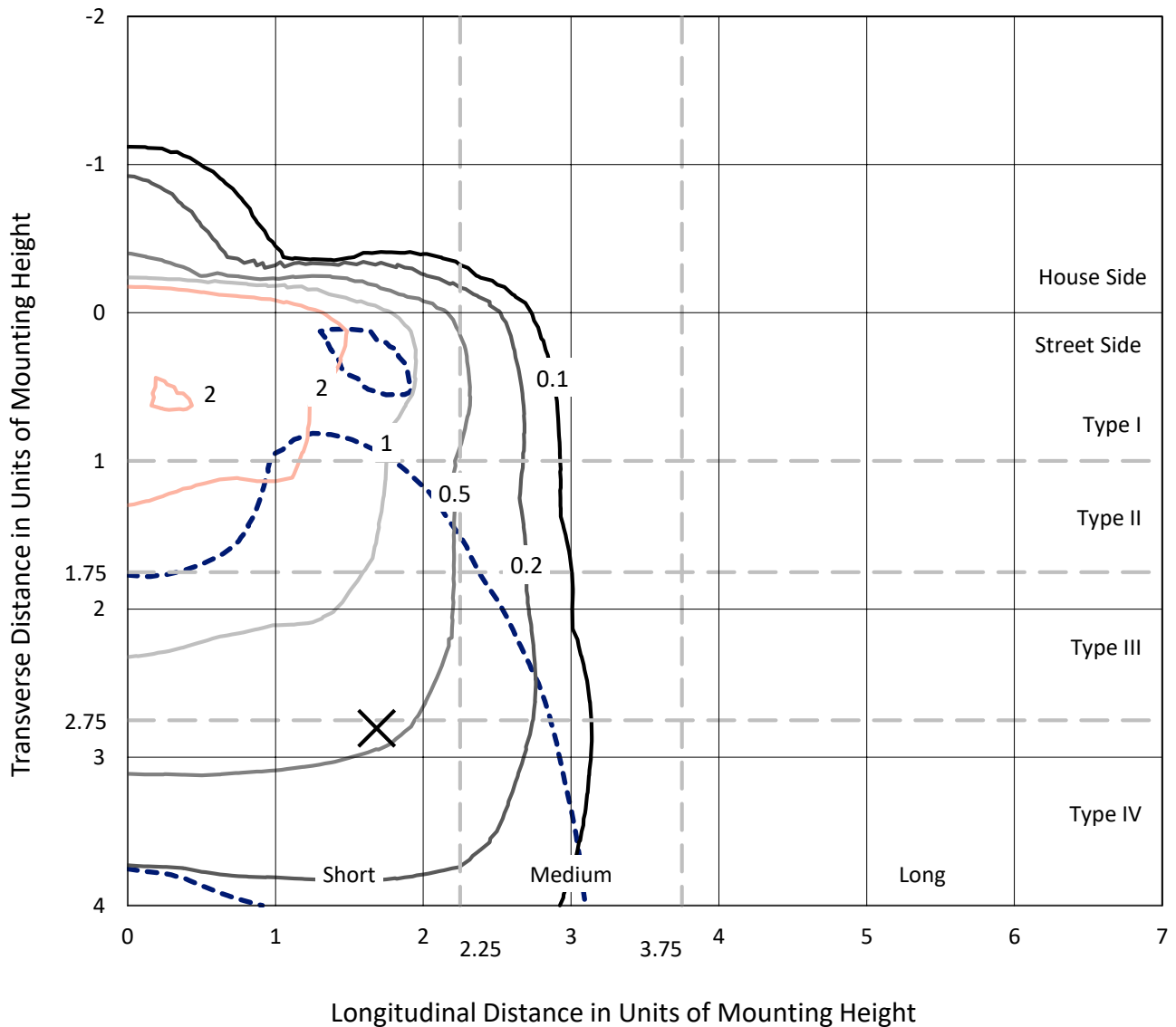
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

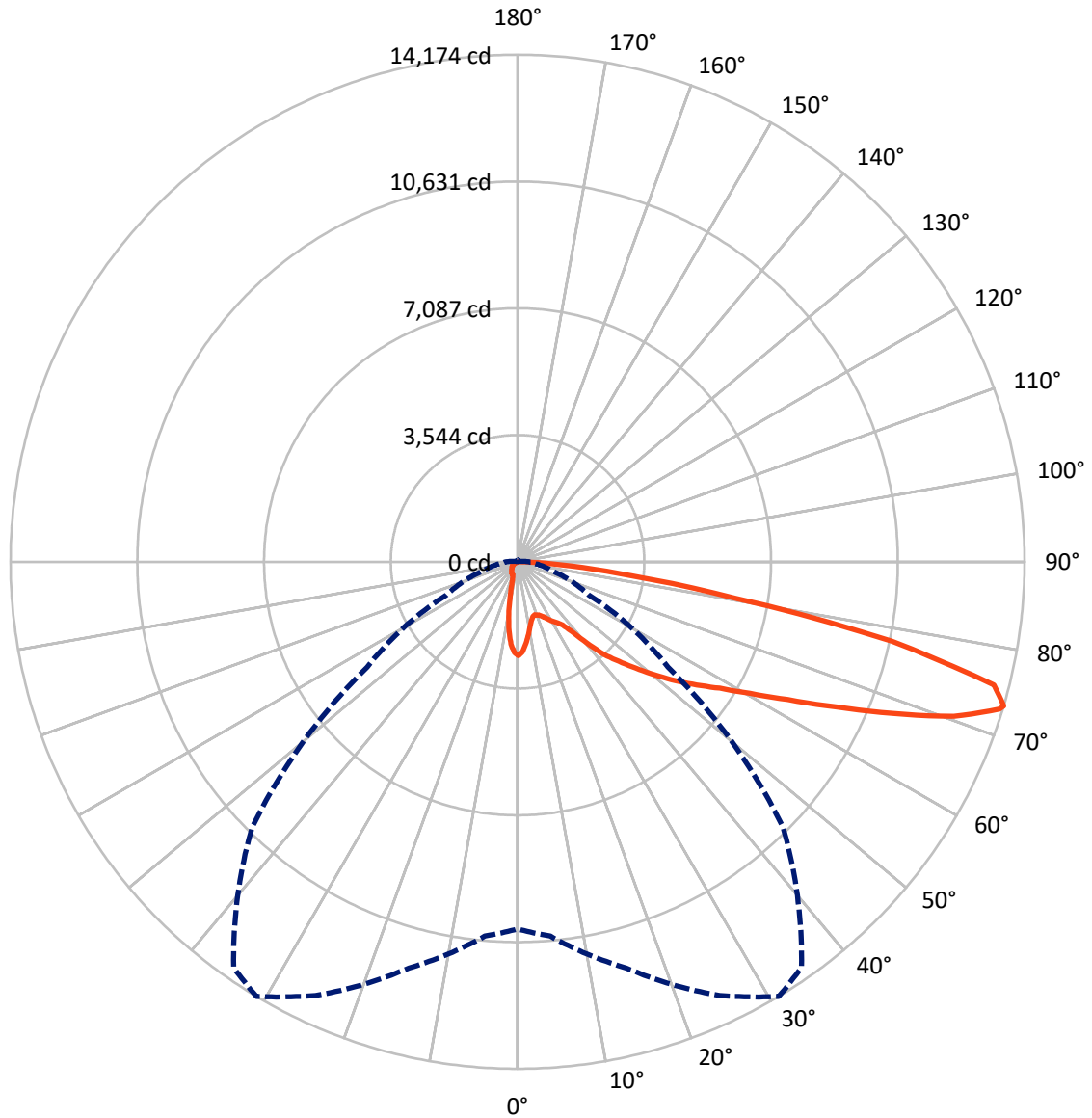
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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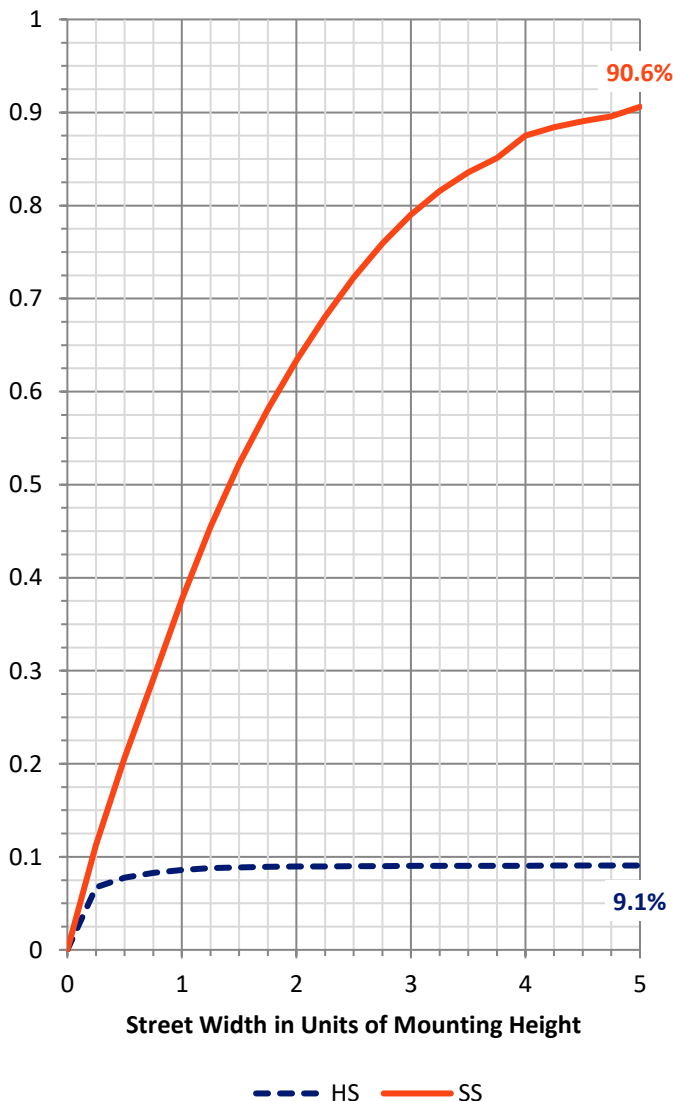
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1390.0	0.0	1390.0
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	13858.5	0.0	13858.5
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	15248.5	0.0	15248.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.5	1.4
10°-20°	472.3	3.1
20°-30°	707.7	4.6
30°-40°	1125.9	7.4
40°-50°	2010.5	13.2
50°-60°	3119.8	20.5
60°-70°	4147.3	27.2
70°-80°	3119.6	20.5
80°-90°	327.8	2.1
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°	15248.5	100.0
0°-180°	15248.5	100.0

**Coefficient of Utilization**

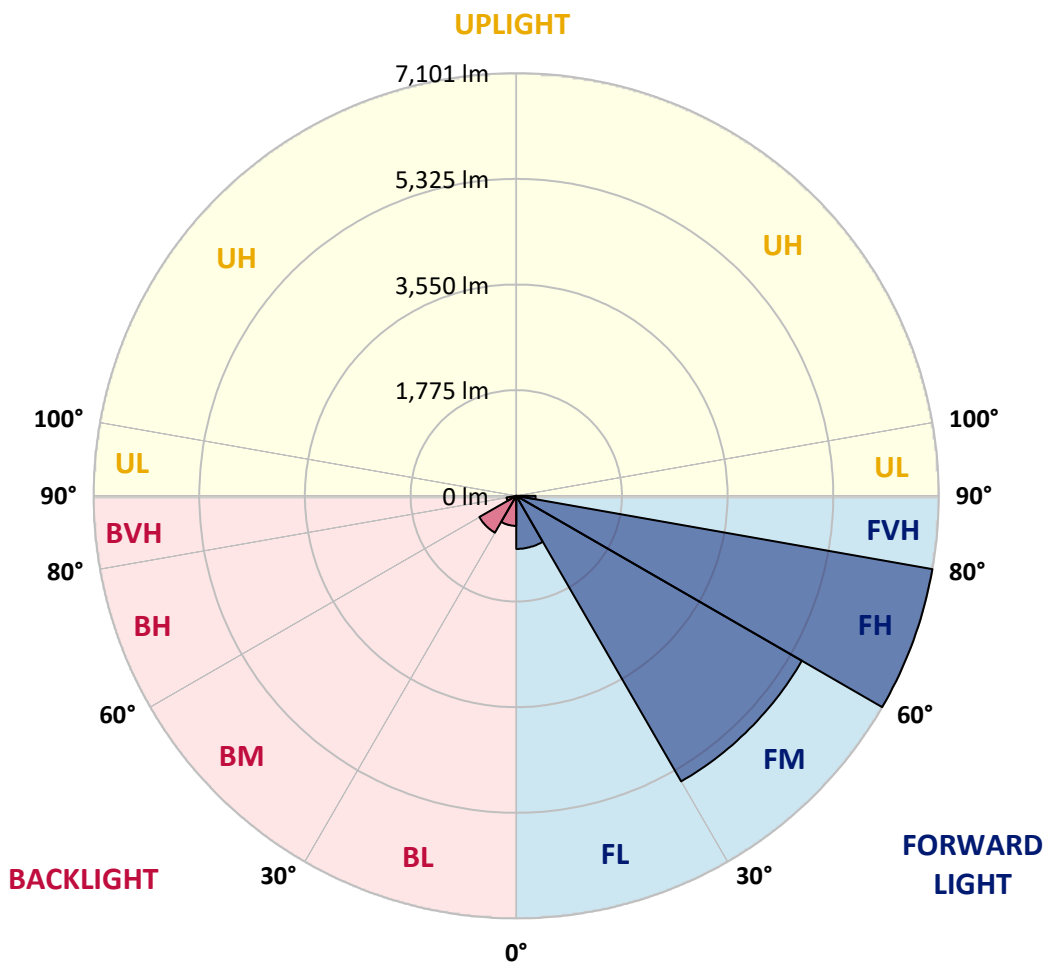


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.1	5.9			
FM (30°-60°)	5540.8	36.3			
FH (60°-80°)	7100.7	46.6			G3/7500
FVH (80°-90°)	325.0	2.1			G3/500
BL (0°-30°)	505.4	3.3	B2/1000		
BM (30°-60°)	715.5	4.7	B1/1000		
BH (60°-80°)	166.3	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5
2.5°	2486.2	2496.6	2507.9	2510.1	2528.8	2529.5	2556.4	2576.6	2596.7	2616.1	2622.8
5°	2231.1	2248.2	2268.3	2288.5	2328.0	2343.7	2409.4	2476.5	2540.7	2601.9	2631.7
7.5°	1958.7	1978.1	2006.5	2056.5	2100.5	2131.1	2234.8	2354.2	2473.5	2586.3	2651.2
10°	1710.2	1728.1	1758.0	1810.9	1878.8	1920.7	2060.2	2225.8	2401.2	2572.1	2680.2
12.5°	1552.1	1561.7	1578.1	1634.9	1696.1	1743.0	1907.3	2112.4	2341.4	2571.3	2727.3
15°	1522.9	1525.9	1512.5	1537.9	1585.6	1631.1	1797.5	2020.6	2296.0	2583.3	2788.4
17.5°	1569.2	1567.7	1522.9	1519.9	1558.0	1595.3	1743.8	1957.2	2263.8	2610.8	2867.5
20°	1639.3	1634.1	1556.5	1542.4	1582.6	1617.7	1740.0	1933.3	2251.9	2657.1	2963.8
22.5°	1732.6	1723.6	1602.0	1587.1	1630.4	1666.9	1786.3	1956.4	2262.4	2719.0	3075.7
25°	1848.3	1834.9	1680.4	1663.9	1708.0	1744.5	1869.2	2022.9	2293.7	2794.4	3217.5
27.5°	1978.9	1959.4	1805.7	1763.2	1813.2	1851.3	1979.6	2124.4	2342.9	2874.3	3391.4
30°	2101.9	2076.6	1937.8	1867.7	1928.9	1971.3	2099.0	2245.2	2422.0	2997.3	3629.4
32.5°	2225.8	2197.4	2055.7	1972.1	2027.3	2073.6	2222.1	2411.6	2570.5	3185.4	3945.8
35°	2510.9	2481.0	2307.2	2169.1	2168.4	2194.4	2394.4	2639.2	2766.8	3447.3	4323.3
37.5°	2990.6	2973.5	2807.9	2545.9	2475.8	2446.7	2629.5	2910.8	3048.9	3807.7	4749.4
40°	3515.9	3501.0	3315.2	3077.9	2971.3	2899.6	2966.8	3289.1	3447.3	4248.0	5184.4
42.5°	4109.1	4038.3	3707.0	3636.1	3540.6	3486.1	3425.7	3755.4	3936.8	4727.0	5615.6
45°	4647.9	4528.5	4098.7	3991.3	3969.6	3983.0	4016.6	4382.3	4487.5	5296.3	6045.5
47.5°	4968.8	4874.7	4544.9	4442.0	4436.0	4524.8	4778.5	5090.3	5035.9	5792.5	6423.8
50°	5274.0	5188.9	4915.0	4940.4	4968.0	5088.9	5643.3	5818.6	5536.6	6242.5	6770.8
52.5°	5520.9	5391.1	5247.8	5390.3	5526.1	5720.9	6535.7	6472.3	5891.8	6600.7	7067.7
55°	5663.4	5604.5	5673.9	5817.1	6072.3	6388.7	7378.1	7016.2	6151.5	6927.5	7265.4
57.5°	6185.8	6070.1	6208.1	6332.0	6664.8	7107.2	8099.7	7421.5	6338.7	7129.7	7311.0
60°	6817.7	6724.5	6805.8	7011.8	7461.0	7981.0	8774.2	7752.0	6436.4	7259.5	7193.1
62.5°	7823.6	7700.5	7649.8	7880.3	8475.8	9043.6	9286.1	7981.0	6414.8	7202.1	6788.7
65°	9171.2	9043.6	8816.7	9025.7	9783.0	10183.8	9858.4	8029.6	6265.6	6737.1	5766.4
67.5°	10551.6	10459.0	10265.1	10617.2	11300.8	11429.8	10463.5	7911.6	5785.1	5462.7	4074.1
70°	11463.4	11423.8	11550.0	12328.9	12938.6	12901.3	11018.7	7278.2	4509.1	3359.3	2015.4
72.5°	10806.0	10995.6	11926.8	13339.3	14084.0	13779.5	10733.7	5588.8	2577.3	1292.3	582.8
73°	10261.4	10503.9	11757.4	13377.3	14174.2	13840.7	10494.2	5129.9	2196.7	1020.0	441.7
75°	7138.6	7436.4	9733.8	12458.8	13752.0	13187.1	8747.3	3139.9	1017.8	452.2	178.3
77.5°	3466.0	3686.0	5359.8	9001.8	10694.8	10303.1	5445.5	1170.0	459.6	282.8	82.1
80°	1293.8	1438.6	2326.5	4581.4	6180.5	6342.4	2395.2	442.5	305.9	227.6	41.8
82.5°	338.8	377.6	858.1	2043.0	3167.4	3315.2	755.1	223.1	223.9	187.3	25.3
85°	108.2	123.9	267.9	917.0	1492.3	1310.3	197.0	108.2	162.6	139.5	14.2
87.5°	13.4	17.1	85.1	215.7	329.0	182.8	30.6	32.0	69.4	77.6	8.2
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°	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5	2623.5
2.5°	2629.5	2625.8	2626.5	2607.1	2594.5	2569.0	2542.9	2531.0	2518.3	2513.1	2518.3
5°	2642.9	2636.2	2616.8	2557.1	2493.7	2411.6	2334.7	2276.6	2203.5	2183.3	2204.2
7.5°	2663.9	2650.4	2593.7	2472.0	2331.0	2174.3	1998.3	1869.9	1764.7	1696.8	1721.4
10°	2694.4	2669.1	2554.9	2348.2	2096.0	1818.4	1568.4	1373.7	1235.7	1179.0	1176.7
12.5°	2745.9	2698.1	2507.2	2187.0	1808.7	1438.6	1111.1	899.9	788.0	715.6	714.1
15°	2802.7	2732.5	2446.7	1993.8	1474.5	1030.5	715.6	555.1	482.7	459.6	456.6
17.5°	2872.1	2772.0	2368.4	1755.8	1124.5	682.7	467.1	420.9	417.9	415.7	415.7
20°	2959.3	2819.0	2267.6	1483.4	797.7	455.9	396.9	399.9	401.4	398.4	399.2
22.5°	3060.8	2866.7	2147.5	1190.9	539.5	381.3	379.8	383.5	385.0	383.5	384.3
25°	3178.7	2922.0	2001.2	884.2	389.5	361.9	365.6	370.8	374.6	374.6	374.6
27.5°	3325.0	2989.1	1825.1	617.1	336.6	341.8	352.2	361.9	367.1	368.6	368.6
30°	3515.2	3072.7	1614.0	423.1	305.9	314.9	334.2	353.0	362.7	364.1	364.9
32.5°	3755.4	3166.7	1369.2	312.6	279.8	286.5	307.4	338.8	357.4	360.4	360.4
35°	4030.8	3275.7	1105.8	272.4	261.2	263.4	279.8	315.6	348.5	356.7	357.4
37.5°	4332.3	3383.1	840.9	254.4	245.5	245.5	257.4	288.0	326.8	352.2	355.2
40°	4613.6	3448.0	589.5	240.2	231.3	231.3	241.7	264.2	300.7	338.8	347.0
42.5°	4873.2	3470.5	410.4	226.8	217.9	220.1	229.1	247.0	274.6	312.6	320.1
45°	5140.4	3466.8	299.2	211.2	204.5	211.2	217.9	231.3	251.4	273.1	274.6
47.5°	5341.9	3435.4	237.3	196.3	191.8	200.7	206.7	215.7	226.8	225.3	225.3
50°	5530.6	3359.3	191.1	176.1	179.0	189.6	192.6	195.5	196.3	182.0	180.5
52.5°	5673.9	3240.6	153.0	154.5	166.4	176.8	173.8	169.4	161.9	144.8	141.8
55°	5721.7	3012.3	120.2	127.6	147.7	161.2	150.0	140.3	126.1	112.0	108.9
57.5°	5635.1	2717.5	97.7	99.2	124.6	135.8	123.2	112.0	96.2	84.3	82.1
60°	5451.5	2390.0	80.6	74.6	96.2	105.9	97.7	86.5	72.4	63.4	62.7
62.5°	5087.4	2040.7	66.4	58.2	73.1	81.3	76.1	67.9	56.0	50.0	49.3
65°	4321.8	1632.6	53.8	47.0	56.7	63.4	59.0	53.0	44.1	39.6	38.8
67.5°	3016.7	1103.6	44.1	38.8	44.8	50.0	46.3	43.3	35.0	34.3	35.0
70°	1455.1	532.0	36.5	31.3	35.0	38.8	37.4	35.0	33.5	38.8	44.8
72.5°	417.1	178.3	29.1	26.1	28.3	30.6	32.0	31.3	36.5	47.0	54.5
73°	320.8	144.0	27.6	24.6	26.8	29.8	31.3	30.6	37.4	47.8	54.5
75°	137.3	69.4	20.9	20.1	22.4	26.1	27.6	27.6	37.4	48.5	52.3
77.5°	61.9	37.4	13.4	15.6	19.4	20.9	23.1	23.1	29.8	37.4	37.4
80°	35.0	20.1	10.4	11.9	14.2	14.2	14.2	12.7	13.4	14.9	16.4
82.5°	22.4	13.4	8.2	9.7	8.9	7.5	6.0	6.0	5.2	6.0	7.5
85°	12.7	7.5	7.5	6.0	3.7	3.0	3.7	3.0	0.7	0.0	0.7
87.5°	7.5	4.5	2.2	0.0	0.0	0.0	0.0	0.0	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)