

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: P451882

Luminaire Tested: **GALN-SA2D-740-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12797 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

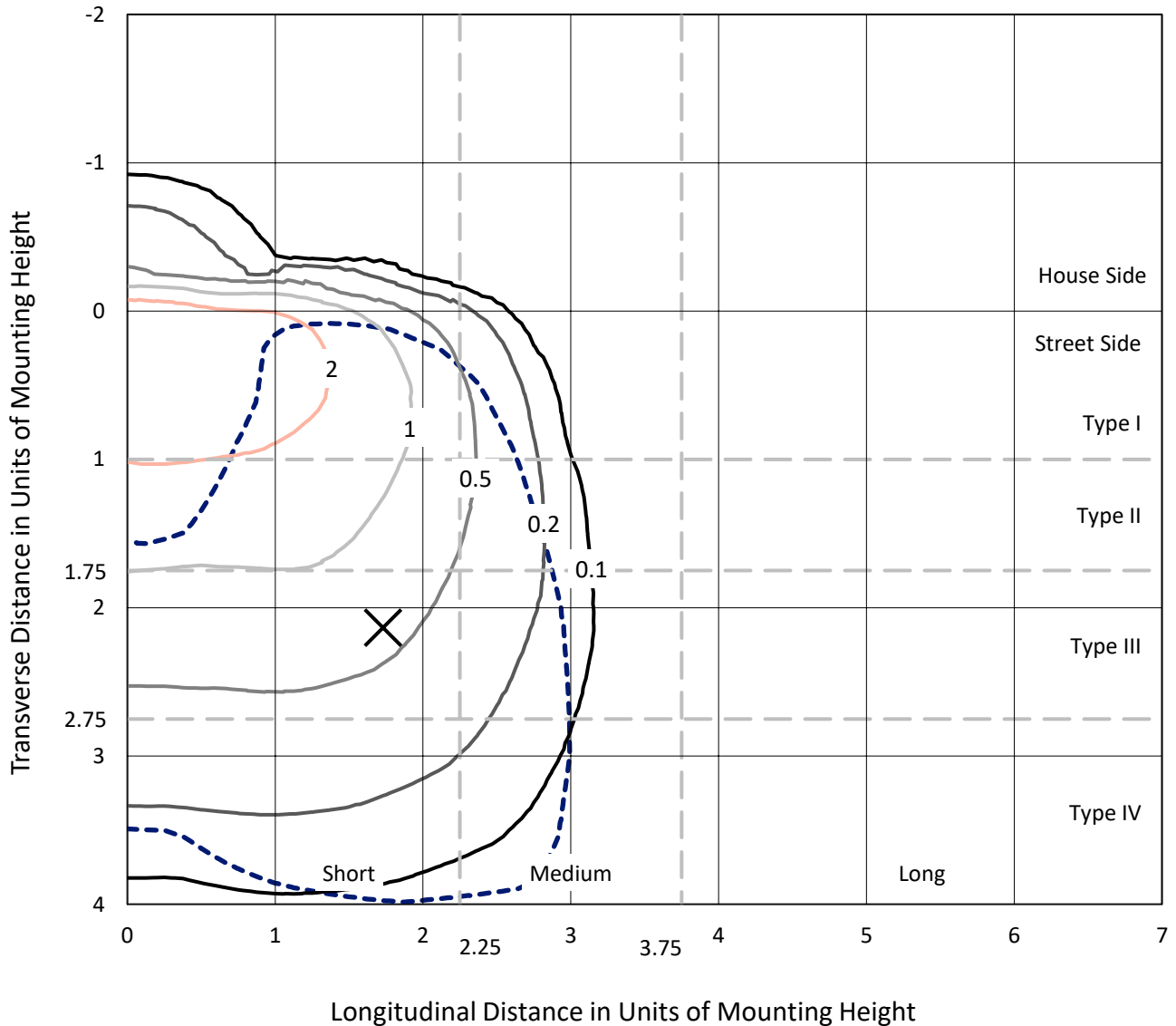
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

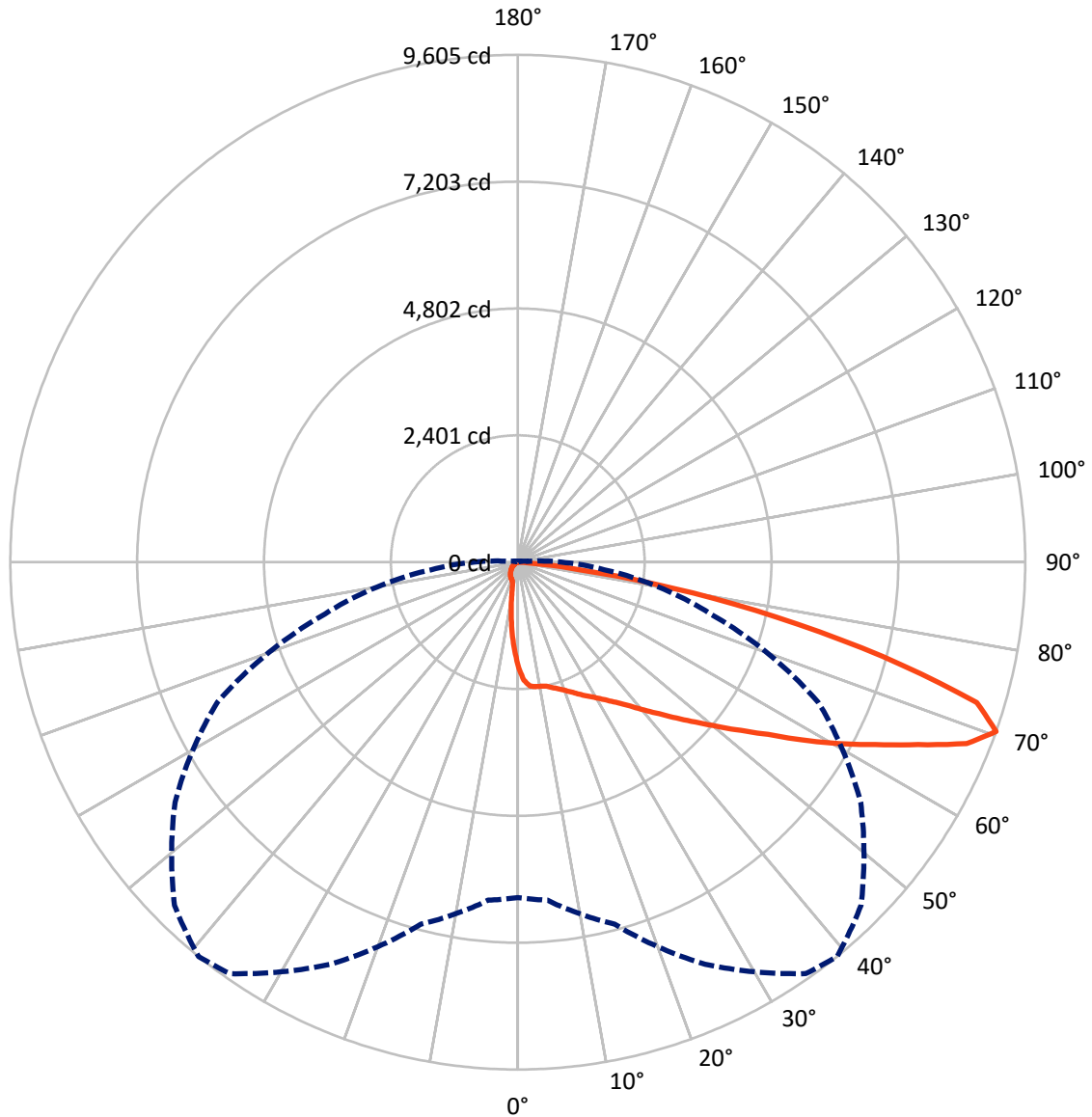
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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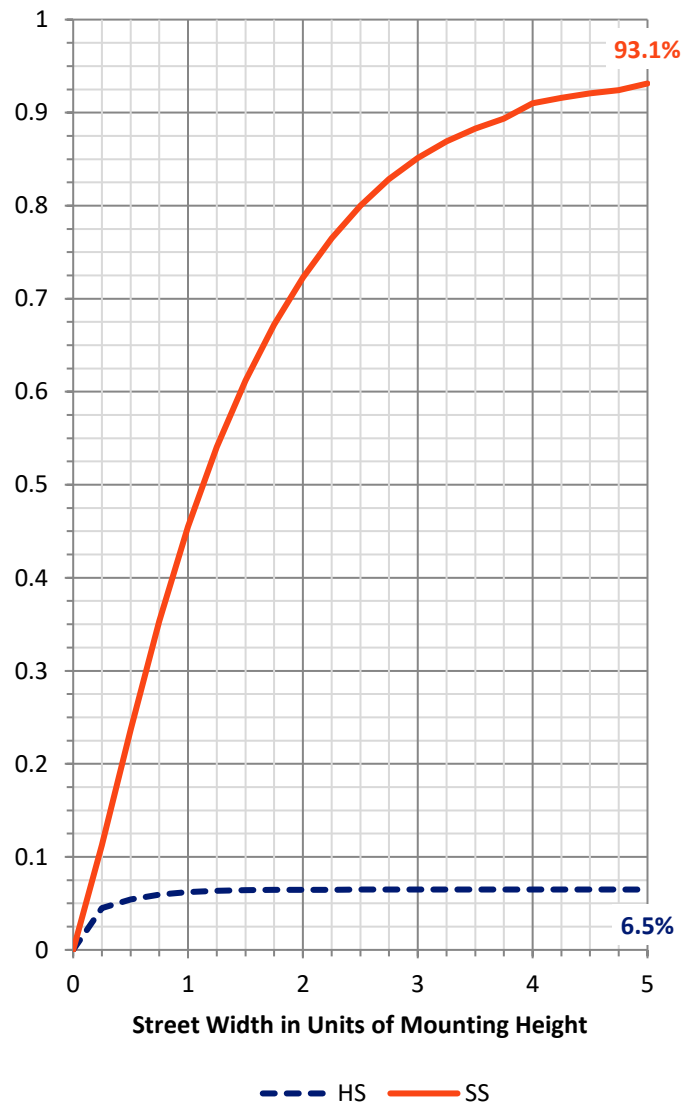
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	834.4	0.0	834.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	11962.6	0.0	11962.6
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	12797.0	0.0	12797.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.3	1.3
10°-20°	442.6	3.5
20°-30°	741.5	5.8
30°-40°	1149.9	9.0
40°-50°	1822.3	14.2
50°-60°	2671.2	20.9
60°-70°	3423.8	26.8
70°-80°	2151.4	16.8
80°-90°	224.1	1.8
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°	12797.0	100.0
0°-180°	12797.0	100.0



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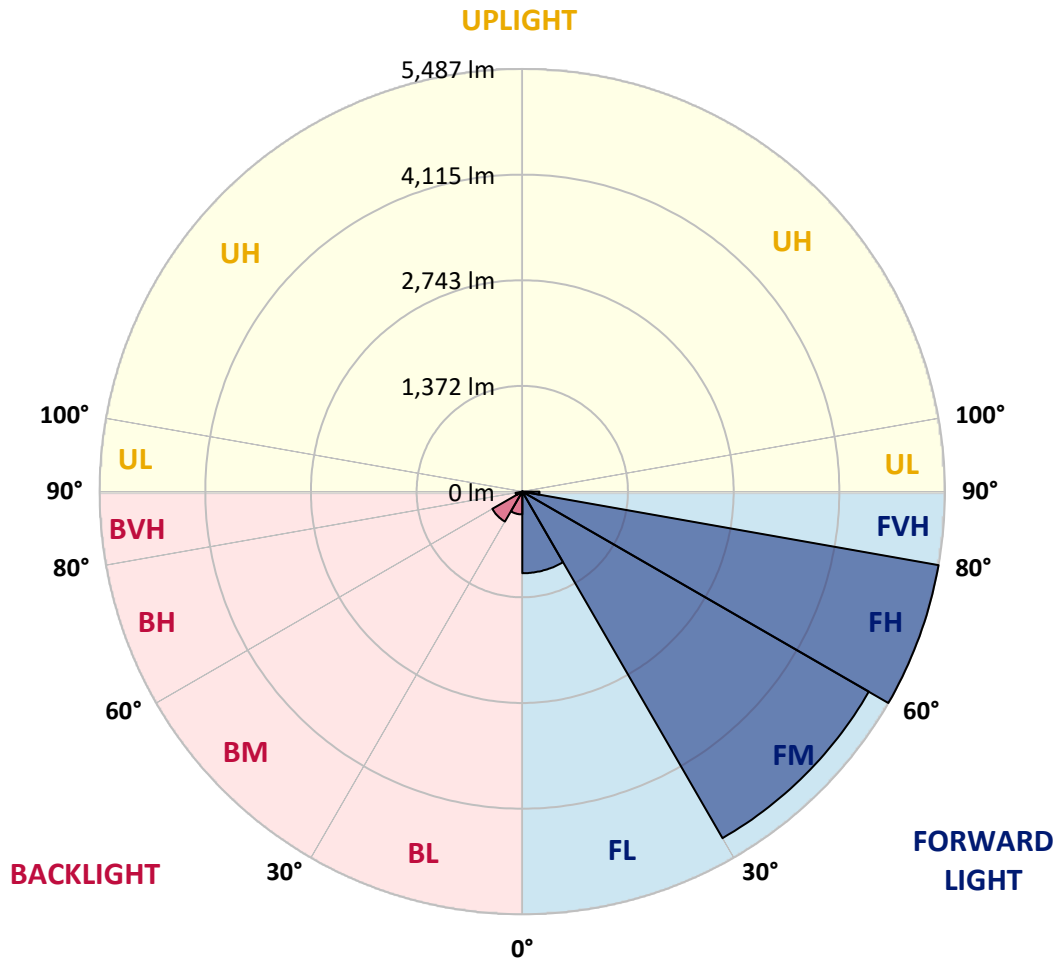
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.9	8.3			
FM (30°-60°)	5194.3	40.6			
FH (60°-80°)	5486.9	42.9			G3/7500
FVH (80°-90°)	222.5	1.7			G2/225
BL (0°-30°)	295.5	2.3	B1/500		
BM (30°-60°)	449.1	3.5	B1/1000		
BH (60°-80°)	88.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8
2.5°	2307.2	2299.5	2289.1	2277.1	2242.7	2236.7	2216.1	2172.2	2119.7	2076.7	2017.4
5°	2416.4	2420.7	2413.0	2391.5	2366.5	2351.9	2326.1	2258.2	2190.3	2103.4	2006.2
7.5°	2441.4	2450.0	2440.5	2419.9	2395.8	2380.3	2359.7	2301.2	2222.1	2123.2	1989.9
10°	2438.8	2449.1	2443.1	2424.2	2404.4	2389.8	2367.4	2321.0	2257.3	2153.3	1995.1
12.5°	2434.5	2448.2	2447.4	2437.9	2421.6	2410.4	2396.6	2355.4	2296.0	2197.1	2023.4
15°	2422.4	2439.6	2455.1	2462.9	2463.7	2463.7	2446.5	2402.7	2345.9	2254.8	2060.4
17.5°	2427.6	2447.4	2486.1	2508.4	2523.9	2522.2	2504.1	2456.8	2394.1	2314.1	2099.1
20°	2459.4	2486.1	2540.3	2585.0	2600.4	2595.3	2571.2	2516.2	2444.8	2364.8	2136.9
22.5°	2537.7	2561.7	2629.7	2682.1	2693.3	2679.6	2645.2	2570.3	2505.9	2419.9	2182.5
25°	2654.6	2683.0	2745.8	2785.3	2785.3	2777.6	2729.4	2641.7	2574.6	2496.4	2241.9
27.5°	2796.5	2820.6	2882.5	2917.8	2897.1	2874.8	2826.6	2720.8	2656.3	2592.7	2313.2
30°	2940.1	2955.6	3021.0	3036.4	3014.9	2986.6	2935.0	2829.2	2772.4	2723.4	2416.4
32.5°	3076.0	3109.5	3163.7	3160.3	3131.0	3117.3	3070.0	2957.3	2925.5	2920.3	2560.9
35°	3211.9	3237.7	3285.8	3297.9	3272.1	3269.5	3235.1	3151.7	3152.5	3186.1	2786.2
37.5°	3328.8	3352.0	3408.8	3435.4	3440.6	3453.5	3439.7	3384.7	3463.0	3555.0	3084.6
40°	3426.8	3459.5	3531.8	3578.2	3631.5	3678.8	3681.4	3693.4	3850.8	4009.0	3474.1
42.5°	3503.4	3549.0	3653.9	3739.9	3862.0	3922.2	3970.3	4036.5	4301.4	4537.9	3933.3
45°	3603.1	3655.6	3786.3	3921.3	4112.2	4211.1	4278.2	4455.3	4831.1	5153.6	4404.6
47.5°	3768.2	3795.8	3929.0	4126.0	4377.1	4518.1	4648.8	4917.1	5399.5	5688.5	4796.7
50°	3980.6	3998.7	4099.3	4372.8	4697.8	4883.6	5121.8	5437.4	5989.5	6132.2	5018.6
52.5°	4215.4	4221.4	4297.1	4644.5	5057.3	5291.2	5557.8	5947.3	6470.2	6448.7	5165.6
55°	4488.0	4479.4	4543.9	4939.5	5483.0	5750.4	6060.8	6469.3	6887.2	6673.1	5249.9
57.5°	4800.2	4776.9	4839.7	5330.7	6028.2	6348.0	6663.6	6919.9	7210.6	6861.4	5290.3
60°	5126.9	5080.5	5155.3	5770.2	6670.5	6974.1	7236.4	7305.2	7551.1	7011.1	5220.7
62.5°	5387.5	5388.4	5527.7	6238.0	7331.0	7596.7	7736.0	7797.9	7844.3	6978.4	4854.3
65°	5794.2	5808.0	6030.7	6887.2	8095.4	8325.9	8421.4	8220.1	7857.2	6572.5	4304.0
67.5°	6213.9	6257.8	6665.4	7781.6	8978.6	9164.3	9041.4	8301.8	7506.4	5646.3	3263.5
70°	6350.6	6422.9	7094.5	8397.3	9508.3	9604.6	9188.4	7920.9	6275.0	3775.1	1642.5
72.5°	5819.2	5936.1	6847.7	8172.8	9170.4	9086.9	8221.0	6643.0	3989.2	1433.5	501.3
75°	4103.6	4155.2	5691.1	6779.7	7375.7	7139.2	6253.5	4282.5	1640.8	402.4	172.0
77.5°	2118.9	2093.9	3384.7	4498.3	5260.2	5015.1	4095.0	2216.9	621.7	167.7	106.6
80°	1095.6	1113.6	1464.5	2357.1	3211.0	2954.7	2183.4	1027.6	331.1	92.9	81.7
82.5°	614.0	576.2	841.9	1029.3	1501.4	1177.3	837.6	727.5	144.5	55.9	77.4
85°	111.8	117.0	461.8	556.4	521.1	331.1	270.0	485.9	42.1	31.0	54.2
87.5°	1.7	1.7	89.4	159.9	101.5	46.4	85.1	69.7	8.6	12.0	9.5
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°	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8	1996.8
2.5°	1987.3	1954.6	1893.6	1833.4	1756.8	1694.1	1651.9	1608.1	1563.4	1566.8	1577.1
5°	1952.9	1896.2	1775.8	1648.5	1526.4	1416.3	1308.0	1210.8	1171.2	1135.1	1136.8
7.5°	1918.5	1838.5	1662.3	1462.8	1277.9	1090.4	954.5	842.7	783.4	738.7	725.8
10°	1903.0	1797.3	1558.2	1283.9	1021.6	816.9	642.4	551.2	480.7	458.3	464.4
12.5°	1909.9	1776.6	1464.5	1122.2	810.1	569.3	447.2	400.7	385.3	382.7	381.0
15°	1922.8	1762.0	1372.5	943.3	595.1	423.1	375.8	367.2	365.5	363.8	364.6
17.5°	1940.0	1749.1	1274.4	775.7	456.6	369.8	356.0	351.7	350.9	350.9	350.9
20°	1957.2	1734.5	1165.2	626.0	381.0	349.1	340.5	338.0	337.1	337.1	336.2
22.5°	1977.0	1721.6	1054.3	491.9	350.9	334.5	326.8	325.1	324.2	323.3	323.3
25°	2005.4	1705.3	936.5	402.4	331.9	320.8	313.0	311.3	310.4	307.0	307.9
27.5°	2043.2	1693.2	815.2	347.4	314.7	303.6	298.4	295.8	294.1	291.5	292.4
30°	2094.8	1682.9	686.2	317.3	295.0	285.5	280.3	278.6	276.9	274.3	274.3
32.5°	2184.2	1687.2	550.4	293.2	276.9	265.7	260.6	258.8	257.1	254.5	254.5
35°	2318.4	1712.1	440.3	272.6	255.4	244.2	239.1	239.1	236.5	233.0	232.2
37.5°	2537.7	1775.8	353.4	252.8	234.8	224.4	218.4	216.7	214.1	209.0	208.1
40°	2796.5	1874.7	297.5	233.0	215.8	205.5	200.4	195.2	188.3	183.2	182.3
42.5°	3121.6	1976.1	258.0	213.3	197.8	188.3	182.3	173.7	163.4	156.5	155.6
45°	3460.4	2069.0	231.3	195.2	180.6	172.8	166.0	152.2	139.3	130.7	129.9
47.5°	3713.2	2086.2	209.8	178.0	166.0	158.2	148.8	131.6	114.4	106.6	104.1
50°	3832.7	2002.8	187.5	160.8	151.3	142.7	130.7	110.9	92.0	82.6	80.8
52.5°	3874.9	1858.3	169.4	145.3	136.7	126.4	111.8	89.4	72.2	62.8	61.9
55°	3857.7	1676.0	153.1	130.7	119.5	107.5	92.9	71.4	53.3	45.6	43.9
57.5°	3767.4	1443.8	136.7	116.1	102.3	90.3	74.0	53.3	36.1	29.2	28.4
60°	3524.0	1127.4	120.4	99.8	86.9	74.0	58.5	37.8	22.4	16.3	16.3
62.5°	3113.0	836.7	104.9	83.4	73.1	59.3	41.3	24.1	12.0	8.6	7.7
65°	2601.3	617.4	87.7	70.5	61.1	46.4	29.2	14.6	6.0	2.6	1.7
67.5°	1815.3	381.0	73.1	57.6	49.9	33.5	18.1	6.0	2.6	0.0	0.0
70°	824.7	181.4	55.9	43.9	37.8	24.1	9.5	3.4	1.7	0.0	0.0
72.5°	256.3	95.5	39.6	31.8	25.8	15.5	5.2	2.6	1.7	0.0	0.0
75°	118.7	61.1	24.9	17.2	14.6	7.7	3.4	1.7	0.9	0.0	0.0
77.5°	88.6	47.3	14.6	9.5	7.7	5.2	2.6	1.7	0.9	0.0	0.0
80°	77.4	24.1	8.6	6.0	4.3	3.4	1.7	0.9	0.0	0.0	0.0
82.5°	69.7	12.0	5.2	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0
85°	37.8	6.9	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	6.9	3.4	2.6	1.7	1.7	0.9	0.9	0.9	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)