

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: STREETWORKS

Report Number: P323216

Luminaire Tested: **GAN-SA2D-740-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13149 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

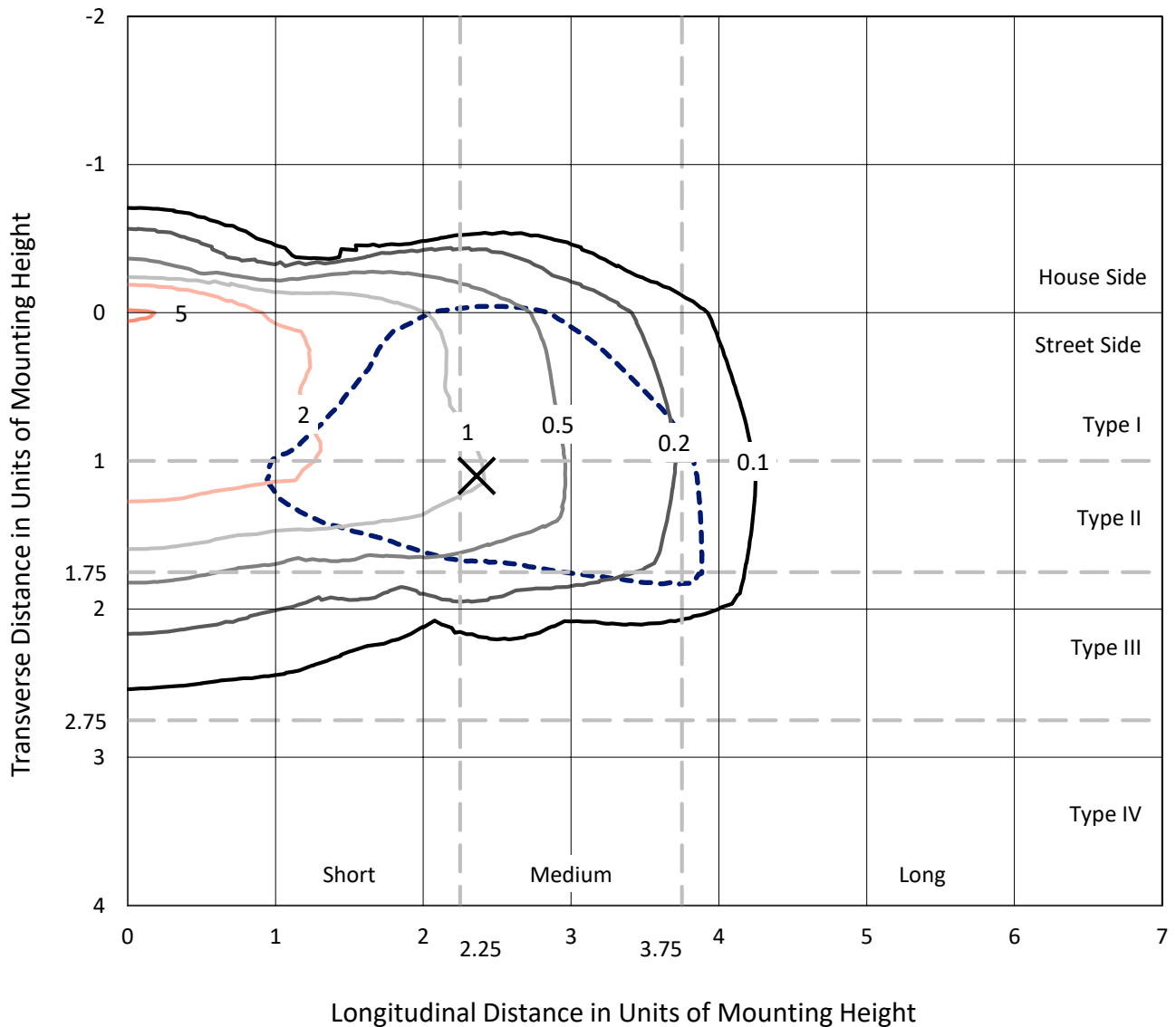
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

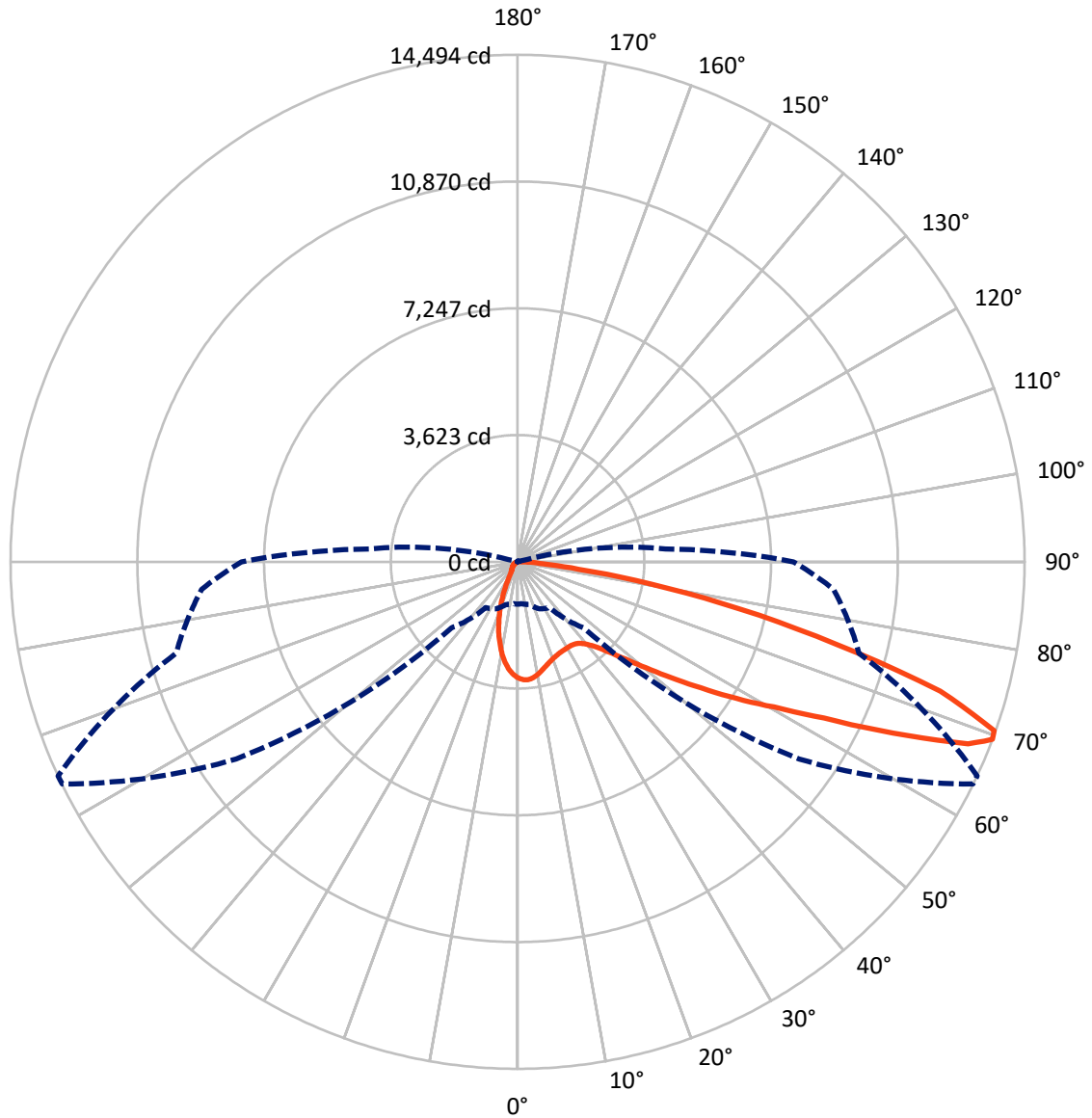
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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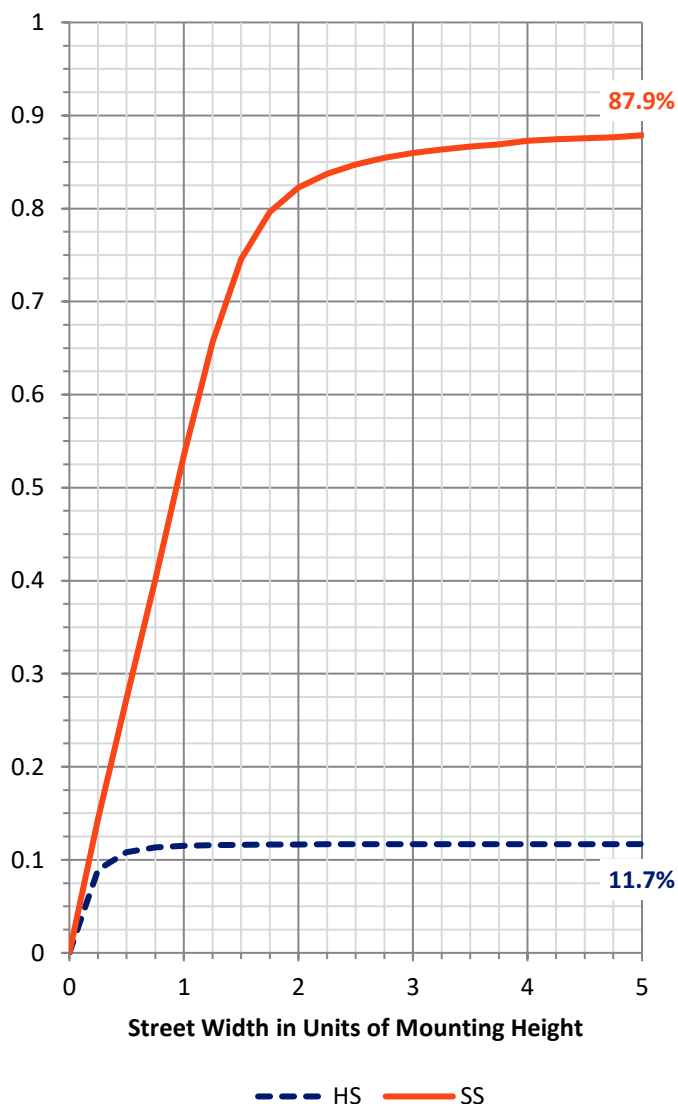
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1550.0	0.0	1550.0
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	11599.0	0.0	11599.0
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	13149.0	0.0	13149.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.9	2.1
10°-20°	608.2	4.6
20°-30°	842.4	6.4
30°-40°	1174.6	8.9
40°-50°	1825.7	13.9
50°-60°	2931.0	22.3
60°-70°	3315.5	25.2
70°-80°	1947.2	14.8
80°-90°	226.5	1.7
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°	13149.0	100.0
0°-180°	13149.0	100.0

**Coefficient of Utilization**

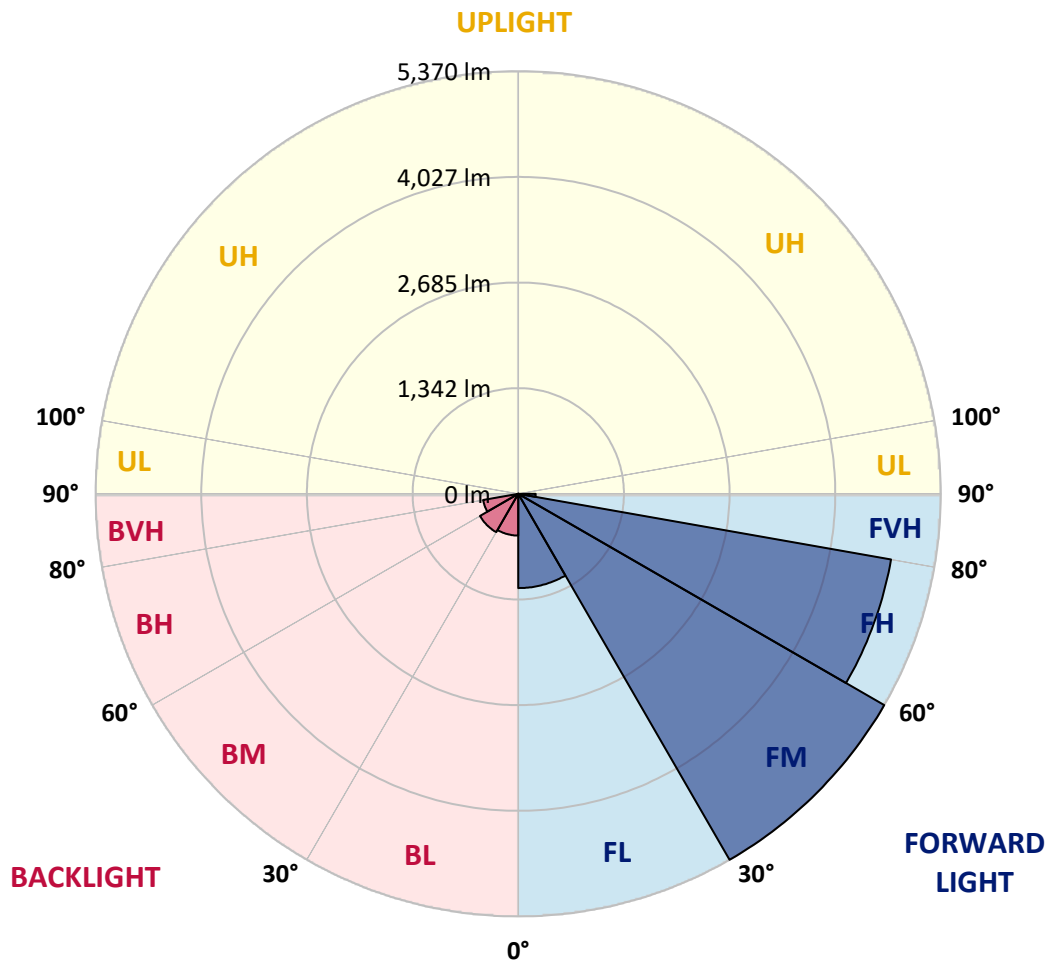


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.2	9.1			
FM (30°-60°)	5369.7	40.8			
FH (60°-80°)	4809.8	36.6			G2/5000
FVH (80°-90°)	221.4	1.7			G2/225
BL (0°-30°)	530.3	4.0	B2/1000		
BM (30°-60°)	561.7	4.3	B1/1000		
BH (60°-80°)	452.9	3.4	B1/500		G1/500
BVH (80°-90°)	5.1	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-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8
2.5°	3352.3	3343.9	3350.6	3365.1	3372.3	3372.3	3377.9	3371.2	3373.4	3357.3	3333.9
5°	3142.5	3129.7	3148.1	3188.7	3238.8	3281.6	3345.0	3378.4	3381.8	3382.3	3355.0
7.5°	2916.6	2904.9	2932.2	2980.0	3044.6	3124.1	3234.9	3331.7	3337.2	3389.5	3369.5
10°	2733.0	2724.7	2756.4	2807.6	2883.2	2972.2	3108.0	3242.7	3258.8	3374.5	3367.3
12.5°	2587.2	2580.5	2610.6	2669.6	2746.9	2845.4	2987.3	3143.6	3165.3	3340.6	3356.2
15°	2481.0	2479.8	2504.9	2561.6	2647.3	2739.1	2884.3	3051.8	3076.8	3303.9	3354.5
17.5°	2425.3	2427.0	2445.3	2493.8	2567.2	2658.4	2797.5	2974.5	3001.7	3271.0	3362.8
20°	2419.8	2421.4	2431.4	2458.7	2518.2	2598.9	2726.9	2909.4	2937.8	3246.5	3376.2
22.5°	2468.7	2467.6	2470.4	2467.6	2501.0	2562.2	2680.1	2859.3	2892.1	3230.4	3386.8
25°	2562.7	2561.1	2560.0	2539.4	2517.1	2549.9	2660.7	2830.9	2862.1	3218.7	3392.9
27.5°	2693.5	2692.4	2690.7	2656.8	2590.0	2569.4	2662.9	2820.4	2846.5	3209.3	3391.8
30°	2865.4	2873.2	2871.0	2823.7	2719.6	2629.0	2686.3	2814.8	2837.6	3190.9	3380.1
32.5°	3067.4	3083.0	3095.2	3044.6	2914.4	2746.9	2740.2	2820.9	2837.6	3177.0	3358.9
35°	3277.2	3297.2	3342.2	3324.4	3153.1	2924.4	2833.2	2857.6	2871.5	3184.8	3348.9
37.5°	3483.6	3507.5	3605.4	3657.2	3465.8	3159.2	2977.8	2948.3	2955.6	3232.1	3360.1
40°	3723.4	3759.5	3908.1	3991.6	3839.1	3473.6	3194.2	3104.1	3106.9	3336.1	3411.8
42.5°	4038.3	4075.6	4236.4	4367.1	4259.7	3870.8	3488.0	3342.2	3339.5	3530.9	3533.6
45°	4422.2	4461.2	4627.5	4772.7	4724.3	4341.5	3864.1	3690.0	3686.7	3838.0	3764.6
47.5°	4857.3	4895.7	5044.3	5193.9	5246.2	4891.2	4343.2	4164.6	4156.8	4264.7	4121.2
50°	5230.6	5255.7	5392.6	5594.0	5829.9	5566.7	4939.1	4767.2	4758.8	4831.7	4644.8
52.5°	5366.4	5380.9	5520.0	5802.1	6390.7	6481.4	5721.9	5500.5	5494.4	5526.1	5341.9
55°	5091.5	5117.7	5288.5	5706.9	6694.5	7515.2	6710.1	6408.5	6362.3	6293.9	6070.8
57.5°	4342.6	4384.4	4568.0	5124.4	6552.6	8335.3	8162.3	7435.6	7367.7	6949.3	6663.4
60°	3253.8	3305.0	3457.4	4057.8	5795.4	8627.4	9749.1	8580.1	8427.1	7471.2	7208.1
62.5°	2232.8	2258.4	2361.9	2753.0	4268.1	8148.9	11076.7	10113.0	9833.7	8038.8	7797.3
65°	1705.3	1714.2	1756.5	1891.2	2541.6	6619.4	11604.7	12135.5	11797.7	8717.6	8408.8
67.5°	1374.3	1367.1	1425.5	1618.0	1702.0	4038.3	10988.7	14048.9	13890.9	9625.0	9024.1
69°	1211.8	1201.8	1261.3	1485.0	1598.5	2669.6	9823.7	14483.5	14493.5	10104.1	9066.4
70°	1090.5	1097.2	1156.2	1406.0	1563.5	2095.4	8710.9	14372.7	14451.7	10283.2	8812.7
72.5°	728.3	746.1	864.6	1167.3	1503.4	1585.7	5259.6	12333.6	12637.3	9879.9	7560.8
75°	410.6	424.0	564.7	880.2	1416.6	1510.0	2778.1	9086.4	9380.2	8261.9	5830.4
77.5°	201.4	208.6	319.4	568.1	1184.6	1438.8	1575.7	6172.1	6507.6	5392.6	3297.7
80°	85.1	89.0	159.7	350.5	846.8	1373.2	1170.1	3798.5	3840.2	2112.6	878.5
82.5°	32.8	33.9	67.3	218.7	538.0	1070.5	978.7	1801.0	1757.6	397.8	200.3
85°	3.9	4.5	24.5	131.3	299.3	550.8	795.1	776.2	718.3	79.0	102.9
87.5°	0.0	0.0	1.7	40.1	89.0	258.2	413.4	322.2	290.4	25.6	53.4
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°	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8	3322.8
2.5°	3314.4	3308.9	3278.8	3235.4	3194.2	3143.1	3094.1	3064.6	3041.2	3025.7	3044.0
5°	3323.3	3298.9	3207.6	3090.8	2976.1	2847.1	2726.9	2625.1	2585.0	2540.5	2560.5
7.5°	3320.5	3274.4	3110.2	2902.1	2691.8	2474.3	2268.4	2109.8	2027.5	1946.8	1967.4
10°	3306.6	3228.7	2980.0	2671.8	2356.9	2044.2	1752.1	1530.1	1406.0	1293.6	1309.7
12.5°	3276.0	3167.5	2826.5	2408.1	1986.9	1574.6	1232.4	948.1	795.6	728.3	736.7
15°	3257.7	3108.0	2664.0	2141.0	1591.8	1096.6	753.4	560.3	490.7	468.5	471.3
17.5°	3248.8	3050.7	2496.0	1835.5	1187.9	698.3	486.8	429.5	414.5	410.6	411.7
20°	3239.9	2992.8	2322.9	1533.4	818.5	469.6	400.0	383.4	377.8	372.8	373.9
22.5°	3224.9	2937.2	2137.1	1227.4	551.9	381.1	360.5	344.4	332.7	326.6	327.7
25°	3206.5	2878.8	1947.4	914.2	402.8	340.0	320.5	297.7	283.8	272.6	273.2
27.5°	3177.0	2807.0	1751.5	665.4	338.3	304.3	278.2	253.2	229.8	217.0	217.0
30°	3135.8	2725.8	1534.0	476.3	303.2	269.3	237.6	206.4	181.4	169.7	168.6
32.5°	3090.2	2641.2	1314.2	361.1	275.4	236.5	200.3	167.5	145.2	135.8	135.2
35°	3051.3	2549.9	1095.0	302.7	247.6	204.8	165.2	137.4	119.6	111.8	111.3
37.5°	3026.2	2458.7	881.3	270.4	222.6	175.3	138.5	113.5	100.7	94.6	94.0
40°	3022.3	2390.8	686.0	245.9	199.2	149.1	115.7	96.3	84.6	77.9	77.3
42.5°	3073.0	2351.9	526.3	225.3	175.3	126.3	98.5	82.3	70.1	63.4	62.9
45°	3205.9	2364.1	405.1	207.0	151.3	106.8	83.5	68.4	57.3	52.3	51.2
47.5°	3448.5	2448.7	322.2	188.6	128.5	90.7	71.2	56.8	47.3	42.3	41.7
50°	3880.3	2647.3	269.3	168.6	107.4	77.3	59.0	46.2	38.4	33.9	33.4
52.5°	4453.4	3001.2	240.4	149.1	89.0	65.7	48.4	36.7	30.0	26.7	26.2
55°	5085.4	3429.6	221.4	128.0	72.9	54.5	38.4	28.9	23.4	20.6	19.5
57.5°	5702.5	3800.7	203.6	107.4	60.6	44.5	30.6	22.8	18.4	15.6	15.0
60°	6269.4	4141.8	183.1	86.2	49.5	35.1	23.9	17.8	14.5	11.7	11.7
62.5°	6876.5	4405.5	154.7	67.3	40.6	26.7	19.5	16.1	11.7	10.0	9.5
65°	7519.6	4601.4	121.3	52.3	31.7	20.0	16.1	16.7	9.5	7.2	6.7
67.5°	7994.8	4562.4	89.6	41.2	24.5	15.6	15.6	17.8	8.3	5.6	5.0
69°	7890.2	4245.8	75.1	35.6	21.1	13.4	14.5	17.8	7.8	5.0	4.5
70°	7587.0	3895.3	66.2	31.7	18.9	12.2	13.9	17.2	7.2	5.0	4.5
72.5°	6318.4	2933.9	51.7	23.9	15.0	10.0	11.7	15.0	7.2	5.0	3.9
75°	4752.7	1877.8	39.5	17.2	11.1	7.8	8.9	11.1	7.2	4.5	3.9
77.5°	2586.1	677.1	28.4	11.7	7.8	6.1	6.1	8.3	6.7	3.3	2.2
80°	664.9	170.3	17.8	7.8	6.1	4.5	3.9	5.6	3.9	0.6	0.0
82.5°	164.1	38.4	9.5	5.6	4.5	1.7	1.7	2.8	1.7	0.0	0.0
85°	90.1	18.9	6.1	3.9	2.2	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	46.2	5.6	1.7	1.1	0.6	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)