

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: P322559

Luminaire Tested: **GAN-SA5B-740-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322559  
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: STREETWORKS  
Catalog Number: GAN-SA5B-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 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: 20284 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

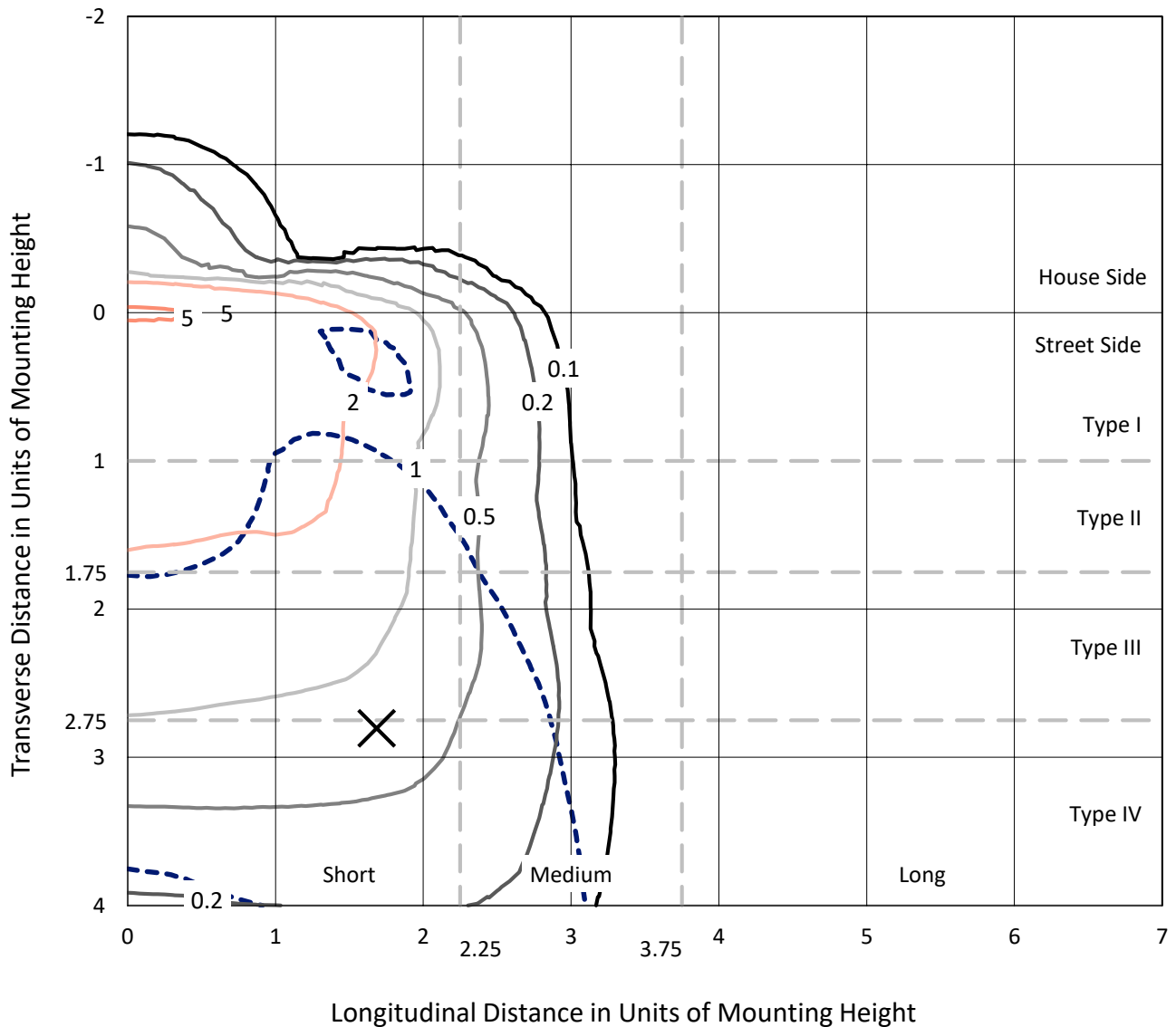
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

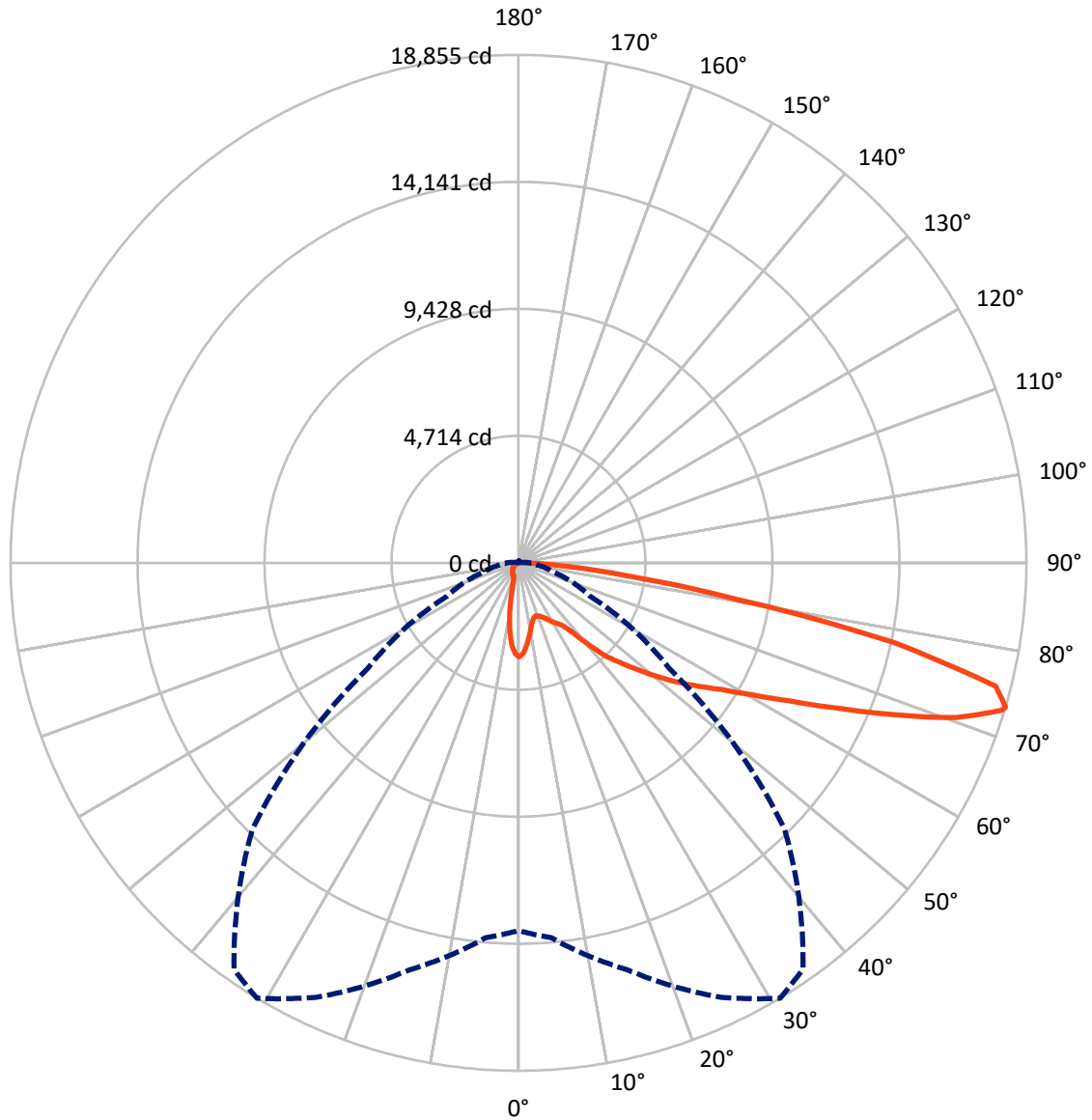
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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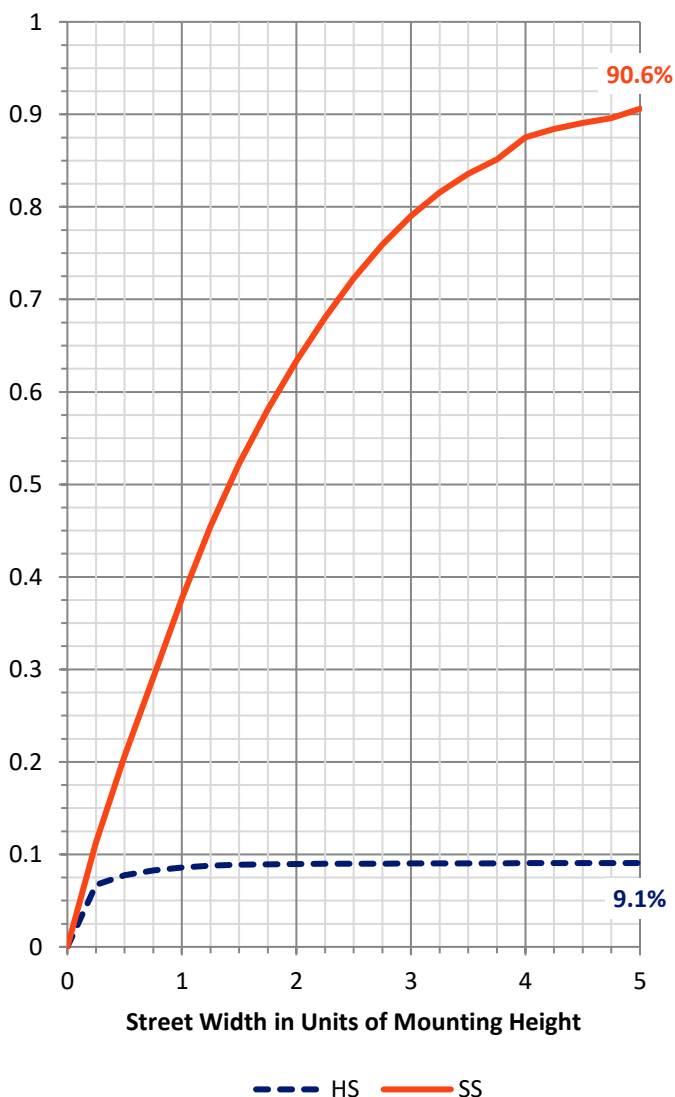
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1849.0	0.0	1849.0
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	18435.0	0.0	18435.0
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	20284.0	0.0	20284.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.4	1.4
10°-20°	628.3	3.1
20°-30°	941.4	4.6
30°-40°	1497.7	7.4
40°-50°	2674.5	13.2
50°-60°	4150.0	20.5
60°-70°	5516.9	27.2
70°-80°	4149.8	20.5
80°-90°	436.1	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°	20284.0	100.0
0°-180°	20284.0	100.0

**Coefficient of Utilization**



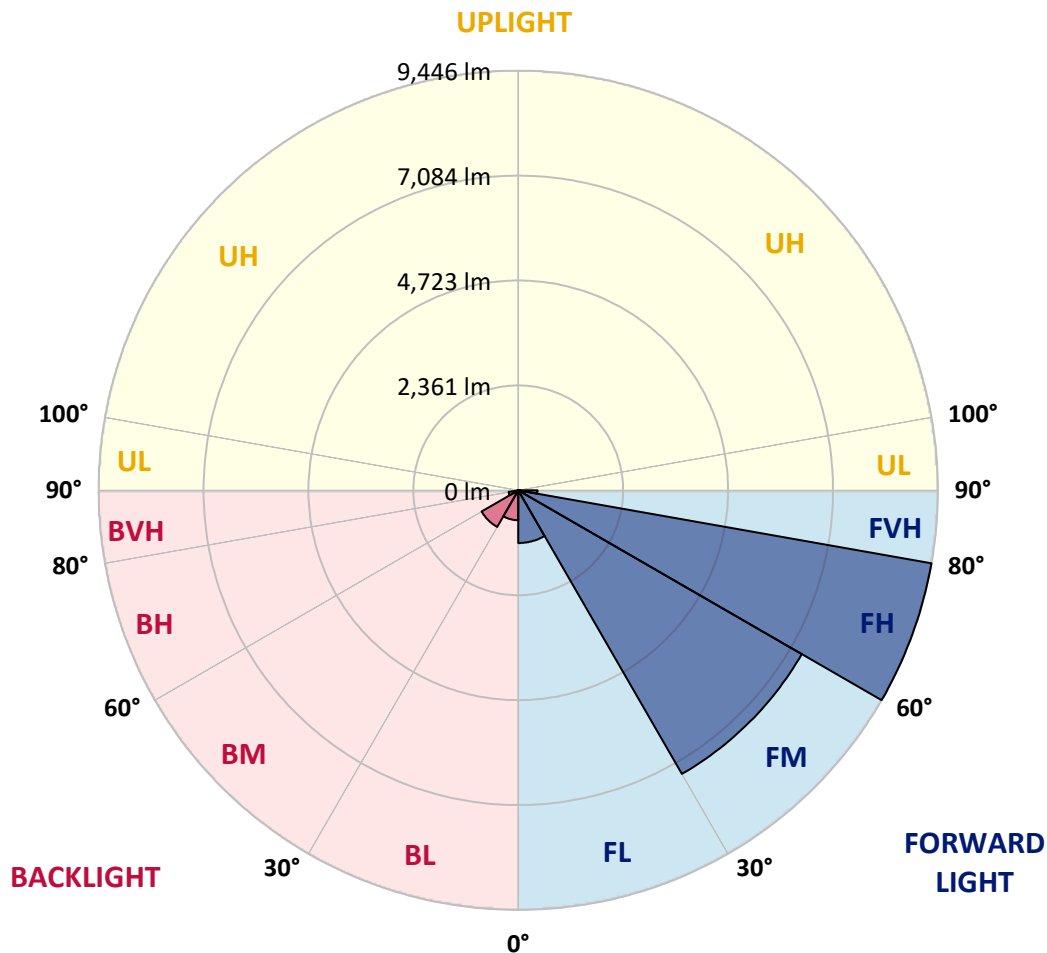
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1186.6	5.9			
FM (30°-60°)	7370.5	36.3			
FH (60°-80°)	9445.5	46.6			G4/12000
FVH (80°-90°)	432.4	2.1			G3/500
BL (0°-30°)	672.4	3.3	B2/1000		
BM (30°-60°)	951.7	4.7	B1/1000		
BH (60°-80°)	221.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9
2.5°	3307.3	3321.2	3336.1	3339.0	3363.8	3364.8	3400.6	3427.4	3454.2	3480.0	3488.9
5°	2967.8	2990.6	3017.4	3044.2	3096.8	3117.7	3205.0	3294.4	3379.7	3461.1	3500.8
7.5°	2605.5	2631.3	2669.0	2735.5	2794.1	2834.8	2972.8	3131.6	3290.4	3440.3	3526.6
10°	2275.0	2298.8	2338.5	2409.0	2499.3	2554.9	2740.5	2960.9	3194.1	3421.4	3565.3
12.5°	2064.6	2077.5	2099.3	2174.7	2256.1	2318.7	2537.0	2810.0	3114.7	3420.4	3627.9
15°	2025.9	2029.8	2012.0	2045.7	2109.2	2169.8	2391.1	2687.9	3054.2	3436.3	3709.3
17.5°	2087.4	2085.4	2025.9	2021.9	2072.5	2122.1	2319.7	2603.5	3011.5	3473.0	3814.5
20°	2180.7	2173.7	2070.5	2051.7	2105.3	2151.9	2314.7	2571.8	2995.6	3534.6	3942.5
22.5°	2304.8	2292.9	2131.1	2111.2	2168.8	2217.4	2376.2	2602.5	3009.5	3617.0	4091.4
25°	2458.6	2440.7	2235.3	2213.4	2272.0	2320.6	2486.4	2690.9	3051.2	3717.2	4280.0
27.5°	2632.3	2606.5	2402.0	2345.5	2412.0	2462.6	2633.3	2825.9	3116.7	3823.4	4511.3
30°	2796.1	2762.3	2577.7	2484.4	2565.8	2622.4	2792.1	2986.7	3221.9	3987.2	4827.9
32.5°	2960.9	2923.1	2734.6	2623.4	2696.8	2758.4	2955.9	3208.0	3419.4	4237.3	5248.8
35°	3340.0	3300.3	3069.1	2885.4	2884.4	2919.2	3185.2	3510.7	3680.5	4585.7	5751.0
37.5°	3978.3	3955.4	3735.1	3386.7	3293.4	3254.7	3497.8	3872.0	4055.7	5065.1	6317.8
40°	4677.0	4657.2	4410.0	4094.4	3952.4	3857.2	3946.5	4375.3	4585.7	5650.7	6896.4
42.5°	5466.1	5371.8	4931.1	4836.8	4709.8	4637.3	4556.9	4995.6	5236.8	6288.0	7470.1
45°	6182.8	6024.0	5452.2	5309.3	5280.5	5298.4	5343.0	5829.4	5969.4	7045.3	8041.9
47.5°	6609.6	6484.5	6045.8	5908.8	5900.9	6019.0	6356.5	6771.4	6698.9	7705.4	8545.1
50°	7015.5	6902.4	6538.1	6571.9	6608.6	6769.4	7506.9	7740.1	7364.9	8303.9	9006.7
52.5°	7344.1	7171.4	6980.8	7170.4	7351.0	7610.1	8694.0	8609.6	7837.4	8780.3	9401.7
55°	7533.7	7455.3	7547.6	7738.1	8077.6	8498.5	9814.6	9333.2	8182.8	9215.1	9664.7
57.5°	8228.5	8074.6	8258.2	8423.0	8865.7	9454.3	10774.4	9872.2	8431.9	9484.1	9725.3
60°	9069.2	8945.1	9053.3	9327.3	9924.8	10616.6	11671.7	10311.9	8562.0	9656.8	9568.5
62.5°	10407.2	10243.4	10175.9	10482.6	11274.7	12030.0	12352.6	10616.6	8533.2	9580.4	9030.5
65°	12199.8	12030.0	11728.3	12006.2	13013.7	13546.7	13113.9	10681.1	8334.7	8962.0	7670.6
67.5°	14036.0	13913.0	13654.9	14123.4	15032.6	15204.3	13918.9	10524.3	7695.5	7266.7	5419.5
70°	15249.0	15196.4	15364.1	16400.4	17211.3	17161.7	14657.4	9681.6	5998.1	4468.6	2681.0
72.5°	14374.5	14626.6	15865.4	17744.3	18734.9	18329.9	14278.2	7434.4	3428.4	1719.1	775.2
73°	13649.9	13972.5	15640.0	17794.9	18855.0	18411.3	13959.6	6824.0	2922.1	1356.9	587.6
75°	9496.0	9892.0	12948.2	16573.1	18293.2	17541.8	11636.0	4176.8	1353.9	601.5	237.2
77.5°	4610.5	4903.3	7129.7	11974.5	14226.6	13705.5	7243.8	1556.4	611.4	376.2	109.2
80°	1721.1	1913.7	3094.9	6094.4	8221.5	8436.9	3186.2	588.6	407.0	302.7	55.6
82.5°	450.6	502.2	1141.5	2717.7	4213.5	4410.0	1004.5	296.8	297.8	249.1	33.7
85°	143.9	164.8	356.3	1219.9	1985.2	1743.0	262.0	143.9	216.4	185.6	18.9
87.5°	17.9	22.8	113.2	286.9	437.7	243.2	40.7	42.7	92.3	103.2	10.9
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°	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9	3489.9
2.5°	3497.8	3492.9	3493.9	3468.1	3451.2	3417.4	3382.7	3366.8	3350.0	3343.0	3350.0
5°	3515.7	3506.8	3481.0	3401.6	3317.2	3208.0	3105.8	3028.4	2931.1	2904.3	2932.1
7.5°	3543.5	3525.6	3450.2	3288.4	3100.8	2892.4	2658.1	2487.4	2347.4	2257.1	2289.9
10°	3584.2	3550.5	3398.6	3123.6	2788.2	2418.9	2086.4	1827.3	1643.7	1568.3	1565.3
12.5°	3652.7	3589.2	3335.1	2909.2	2406.0	1913.7	1477.9	1197.0	1048.2	951.9	949.9
15°	3728.1	3634.8	3254.7	2652.2	1961.3	1370.8	951.9	738.5	642.2	611.4	607.5
17.5°	3820.4	3687.4	3150.4	2335.5	1495.8	908.2	621.4	559.8	555.8	552.9	552.9
20°	3936.6	3750.0	3016.4	1973.2	1061.1	606.5	528.1	532.0	534.0	530.0	531.0
22.5°	4071.6	3813.5	2856.6	1584.2	717.6	507.2	505.2	510.2	512.2	510.2	511.2
25°	4228.4	3886.9	2662.1	1176.2	518.1	481.4	486.4	493.3	498.3	498.3	498.3
27.5°	4422.9	3976.3	2427.8	820.9	447.7	454.6	468.5	481.4	488.3	490.3	490.3
30°	4676.0	4087.4	2146.9	562.8	407.0	418.9	444.7	469.5	482.4	484.4	485.4
32.5°	4995.6	4212.5	1821.4	415.9	372.2	381.1	408.9	450.6	475.4	479.4	479.4
35°	5361.9	4357.4	1471.0	362.3	347.4	350.4	372.2	419.9	463.5	474.5	475.4
37.5°	5762.9	4500.3	1118.6	338.5	326.6	326.6	342.4	383.1	434.7	468.5	472.5
40°	6137.1	4586.7	784.1	319.6	307.7	307.7	321.6	351.4	400.0	450.6	461.5
42.5°	6482.5	4616.5	545.9	301.7	289.8	292.8	304.7	328.5	365.3	415.9	425.8
45°	6837.9	4611.5	398.0	280.9	272.0	280.9	289.8	307.7	334.5	363.3	365.3
47.5°	7105.9	4569.8	315.6	261.0	255.1	267.0	274.9	286.9	301.7	299.8	299.8
50°	7357.0	4468.6	254.1	234.2	238.2	252.1	256.1	260.1	261.0	242.2	240.2
52.5°	7547.6	4310.8	203.5	205.5	221.3	235.2	231.3	225.3	215.4	192.6	188.6
55°	7611.1	4007.0	159.8	169.7	196.5	214.4	199.5	186.6	167.7	148.9	144.9
57.5°	7495.9	3615.0	130.0	132.0	165.8	180.6	163.8	148.9	128.0	112.2	109.2
60°	7251.8	3179.2	107.2	99.3	128.0	140.9	130.0	115.1	96.3	84.4	83.4
62.5°	6767.4	2714.7	88.3	77.4	97.3	108.2	101.2	90.3	74.4	66.5	65.5
65°	5749.0	2171.8	71.5	62.5	75.4	84.4	78.4	70.5	58.6	52.6	51.6
67.5°	4013.0	1468.0	58.6	51.6	59.6	66.5	61.5	57.6	46.7	45.7	46.7
70°	1935.5	707.7	48.6	41.7	46.7	51.6	49.6	46.7	44.7	51.6	59.6
72.5°	554.9	237.2	38.7	34.7	37.7	40.7	42.7	41.7	48.6	62.5	72.5
73°	426.8	191.6	36.7	32.8	35.7	39.7	41.7	40.7	49.6	63.5	72.5
75°	182.6	92.3	27.8	26.8	29.8	34.7	36.7	36.7	49.6	64.5	69.5
77.5°	82.4	49.6	17.9	20.8	25.8	27.8	30.8	30.8	39.7	49.6	49.6
80°	46.7	26.8	13.9	15.9	18.9	18.9	18.9	16.9	17.9	19.9	21.8
82.5°	29.8	17.9	10.9	12.9	11.9	9.9	7.9	7.9	6.9	7.9	9.9
85°	16.9	9.9	9.9	7.9	5.0	4.0	5.0	4.0	1.0	0.0	1.0
87.5°	9.9	6.0	3.0	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)