

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: P322279

Luminaire Tested: **GAN-SA5B-750-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5B-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20813 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

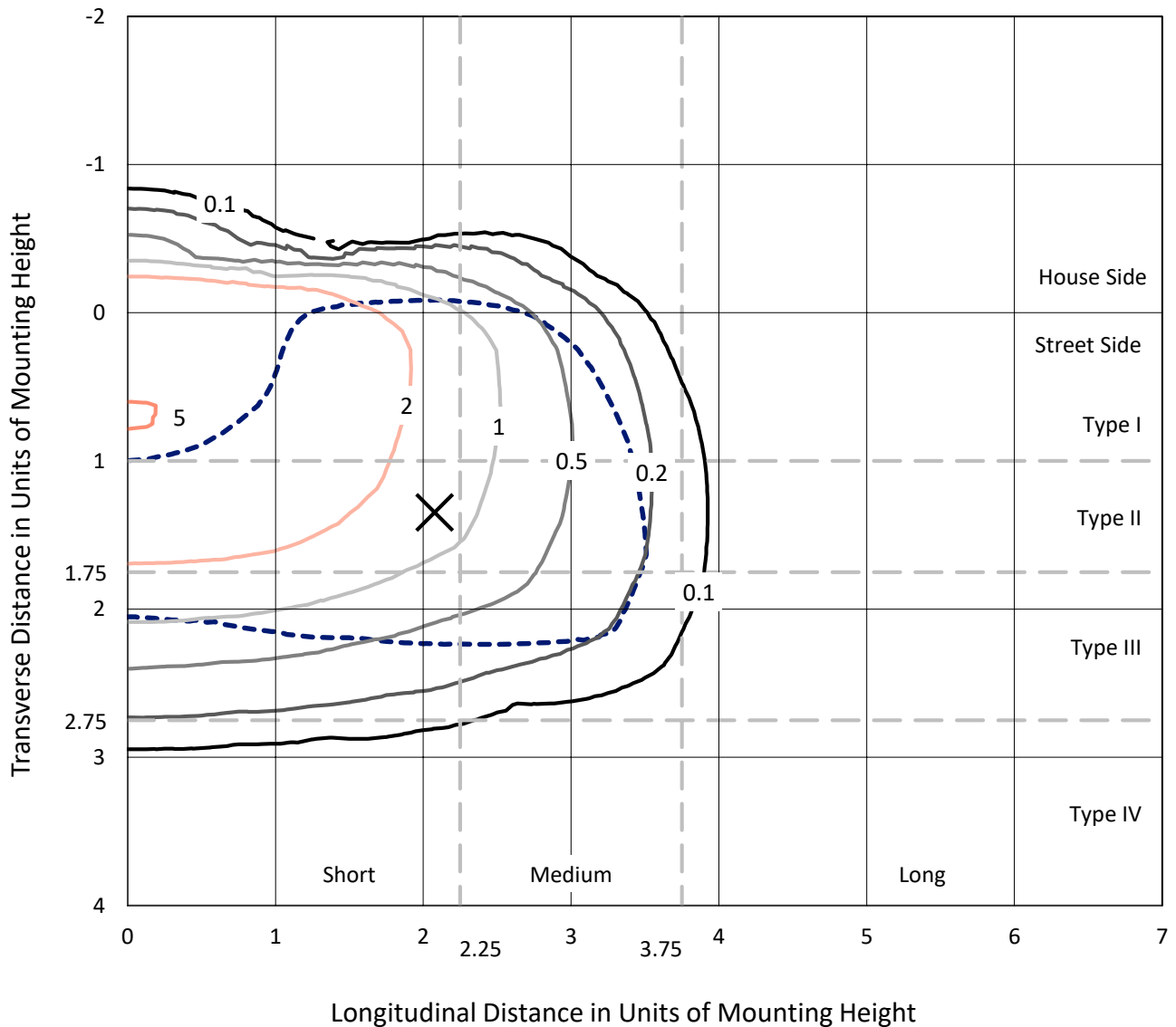
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

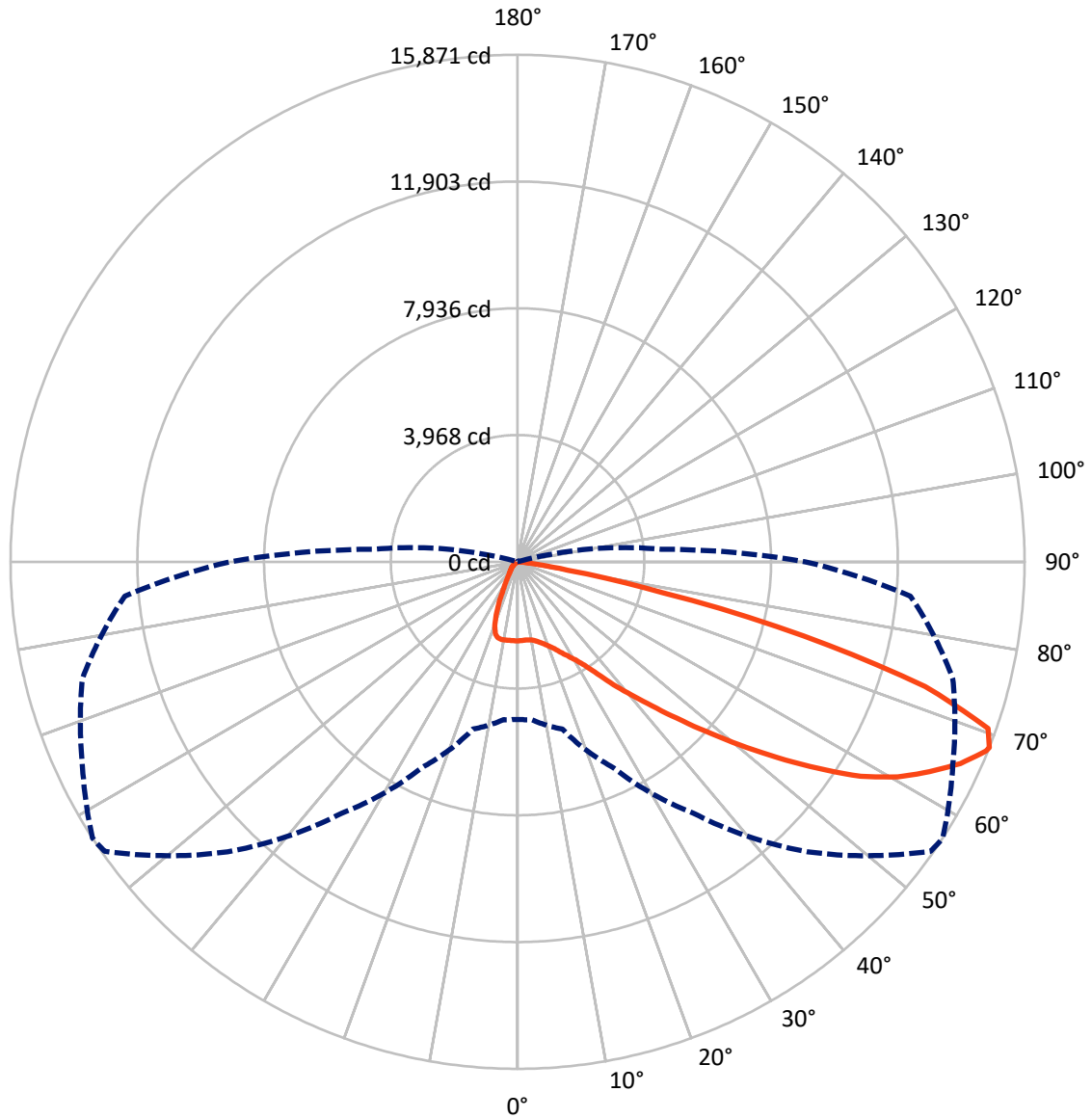
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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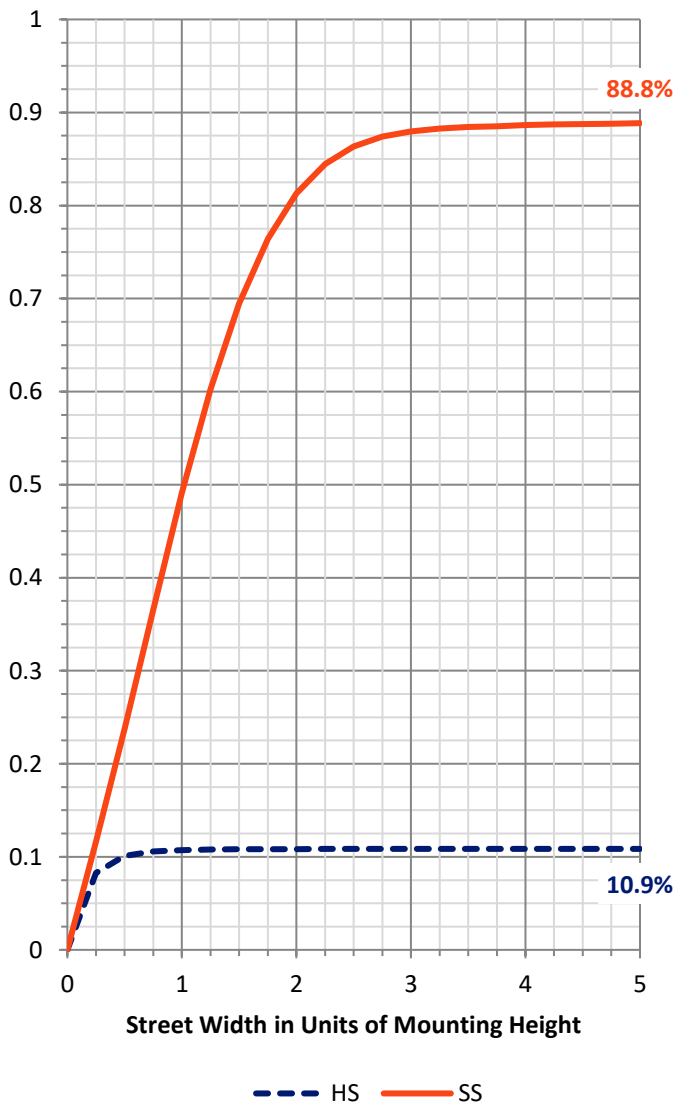
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2282.3	0.0	2282.3
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	18530.7	0.0	18530.7
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	20813.0	0.0	20813.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.4	1.1
10°-20°	641.4	3.1
20°-30°	1106.4	5.3
30°-40°	1909.6	9.2
40°-50°	3266.4	15.7
50°-60°	5226.0	25.1
60°-70°	6038.0	29.0
70°-80°	2307.2	11.1
80°-90°	86.5	0.4
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°	20813.0	100.0
0°-180°	20813.0	100.0

**Coefficient of Utilization**



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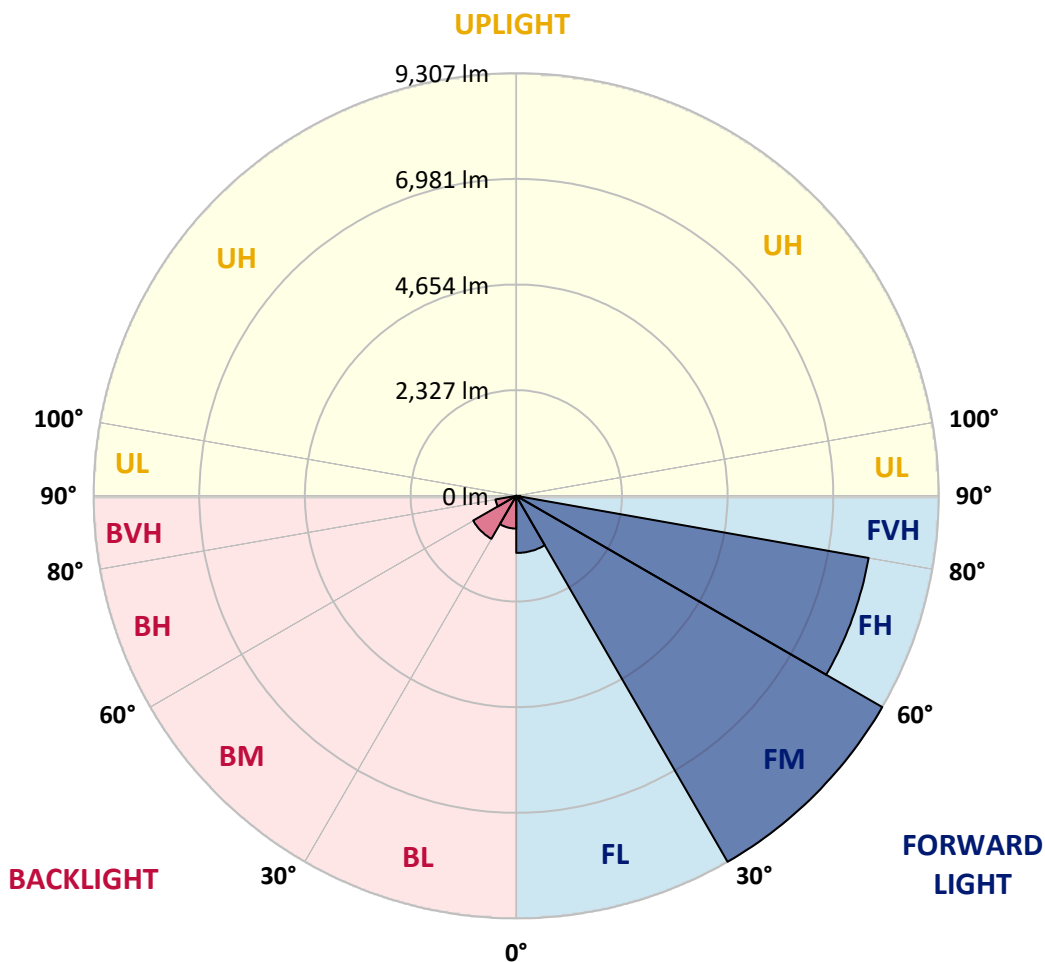
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.9	6.0			
FM	(30°-60°)	9307.4	44.7			
FH	(60°-80°)	7880.5	37.9			G4/12000
FVH	(80°-90°)	84.9	0.4			G1/100
BL	(0°-30°)	721.3	3.5	B2/1000		
BM	(30°-60°)	1094.6	5.3	B2/2500		
BH	(60°-80°)	464.8	2.2	B1/500		G1/500
BVH	(80°-90°)	1.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1
2.5°	2415.1	2425.9	2433.8	2438.7	2444.6	2457.4	2461.3	2467.2	2470.2	2470.2	2477.1
5°	2319.6	2331.4	2348.1	2361.9	2389.5	2424.9	2450.5	2460.3	2478.1	2493.8	2502.7
7.5°	2231.0	2244.8	2264.5	2297.0	2344.2	2401.3	2454.4	2468.2	2502.7	2536.1	2552.8
10°	2174.0	2184.8	2210.4	2256.6	2318.6	2398.3	2473.1	2489.9	2548.9	2605.0	2636.5
12.5°	2154.3	2164.1	2190.7	2242.8	2319.6	2413.1	2516.4	2541.0	2627.6	2709.3	2753.6
15°	2182.8	2184.8	2213.3	2262.5	2338.3	2449.5	2588.3	2617.8	2727.0	2833.3	2888.4
17.5°	2293.0	2284.2	2298.9	2320.6	2380.6	2497.7	2664.1	2708.3	2854.0	2979.0	3031.1
20°	2568.6	2568.6	2535.1	2476.1	2477.1	2572.5	2766.4	2816.6	2994.7	3139.4	3186.6
22.5°	3040.0	3031.1	2964.2	2819.5	2686.7	2701.5	2891.4	2956.3	3164.0	3318.5	3334.3
25°	3606.9	3596.0	3492.7	3289.0	3058.7	2910.1	3060.7	3135.5	3365.7	3502.5	3470.1
27.5°	4207.2	4198.3	4096.0	3843.1	3515.3	3242.7	3262.4	3333.3	3571.4	3706.3	3602.9
30°	4788.8	4791.8	4690.4	4430.6	4059.6	3666.9	3518.3	3559.6	3771.2	3908.0	3760.4
32.5°	5341.9	5345.8	5258.2	4967.9	4621.5	4159.9	3872.6	3861.7	4003.5	4138.3	3969.0
35°	5834.9	5844.8	5784.7	5559.4	5192.3	4709.1	4332.2	4306.6	4333.1	4485.7	4288.9
37.5°	6310.3	6316.2	6270.9	6081.0	5773.9	5312.4	4912.8	4876.4	4819.3	4936.4	4711.1
40°	6830.9	6816.1	6764.0	6591.7	6328.0	5978.6	5536.7	5473.8	5374.4	5478.7	5266.1
42.5°	7315.1	7298.4	7307.2	7112.3	6889.9	6663.6	6264.0	6155.8	6097.7	6217.8	5947.1
45°	7920.3	7911.5	7941.0	7771.7	7591.6	7427.3	7097.6	6979.5	6953.9	7094.6	6770.9
47.5°	8517.7	8539.3	8630.9	8559.0	8486.2	8341.5	7980.4	7927.2	7943.0	8113.2	7639.8
50°	9015.7	9041.3	9292.2	9374.9	9480.2	9395.5	9033.4	9000.9	9062.9	9216.4	8574.8
52.5°	9375.9	9428.0	9740.0	10120.9	10504.7	10561.7	10200.6	10171.0	10254.7	10278.3	9297.1
55°	9625.8	9672.1	10025.4	10722.2	11503.6	11749.6	11525.2	11411.1	11395.3	11162.1	10056.9
57.5°	9670.1	9665.2	10173.0	11110.9	12286.9	12921.7	12780.0	12667.8	12345.0	11978.9	10927.8
60°	9420.1	9448.7	10038.2	11245.7	12779.0	13808.4	13819.2	13673.6	13170.7	12773.1	11772.2
62.5°	8650.6	8766.7	9362.1	10892.4	12773.1	14165.6	14581.0	14469.7	13868.4	13423.6	12628.4
65°	7402.7	7444.0	8011.8	9681.9	11910.0	14016.1	15266.9	15225.6	14497.3	14055.4	13068.3
67.5°	5405.9	5316.3	5912.7	7624.1	10083.5	13144.1	15759.0	15811.1	14982.5	14185.3	12599.9
68°	4933.5	4960.0	5424.6	7115.3	9605.2	12836.1	15791.4	15871.2	15030.7	14100.7	12344.0
70°	2940.6	2991.8	3406.1	4899.0	7307.2	11093.2	15441.1	15623.2	14743.3	13227.8	10676.9
72.5°	750.9	811.9	1203.6	2192.7	4173.7	7816.0	13034.9	13342.9	12800.7	10731.0	7207.8
75°	309.0	324.8	430.1	722.4	1554.9	3521.2	8591.5	9250.9	8874.0	6424.4	3257.5
77.5°	213.6	224.4	276.5	400.5	673.1	1193.8	4212.1	4688.4	4223.9	2192.7	710.5
80°	153.5	162.4	197.8	266.7	386.8	426.1	1372.9	1587.4	1260.7	481.2	176.2
82.5°	91.5	98.4	147.6	189.9	235.2	203.7	341.5	387.7	365.1	239.1	78.7
85°	45.3	53.1	99.4	135.8	127.0	85.6	104.3	116.1	143.7	145.7	42.3
87.5°	3.0	5.9	58.1	81.7	35.4	19.7	30.5	37.4	51.2	71.8	17.7
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°	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1	2473.1
2.5°	2480.0	2481.0	2474.1	2471.2	2473.1	2461.3	2456.4	2458.4	2458.4	2461.3	2456.4
5°	2504.6	2504.6	2492.8	2477.1	2468.2	2445.6	2430.8	2426.9	2423.9	2422.0	2418.0
7.5°	2557.8	2551.9	2531.2	2496.8	2467.2	2418.0	2380.6	2360.9	2351.1	2347.2	2344.2
10°	2643.4	2632.6	2598.1	2534.1	2466.2	2378.7	2297.0	2238.9	2190.7	2171.0	2159.2
12.5°	2758.5	2742.8	2684.7	2578.4	2459.4	2298.0	2120.8	1950.6	1792.1	1727.2	1694.7
15°	2891.4	2868.8	2777.2	2615.8	2419.0	2115.9	1731.1	1432.9	1213.4	1130.8	1095.3
17.5°	3026.2	2996.7	2857.9	2639.5	2298.0	1739.0	1214.4	917.2	770.6	731.2	717.4
20°	3162.0	3118.7	2927.8	2621.7	2024.4	1253.8	801.1	670.2	627.9	616.1	612.1
22.5°	3290.9	3224.0	2990.8	2552.8	1603.2	841.4	633.8	592.4	578.7	571.8	569.8
25°	3403.1	3309.6	3045.9	2340.3	1134.7	635.8	570.8	557.0	539.3	526.5	527.5
27.5°	3508.4	3395.3	3079.4	1989.9	756.8	543.2	528.5	509.8	477.3	458.6	458.6
30°	3635.4	3509.4	3104.0	1531.3	557.0	480.3	468.4	439.9	395.6	371.0	371.0
32.5°	3826.3	3682.6	3088.2	1074.7	461.6	422.2	394.6	355.3	307.1	283.4	282.4
35°	4118.6	3950.3	2976.0	704.6	407.4	367.1	322.8	274.6	232.3	212.6	211.6
37.5°	4512.3	4308.5	2724.1	503.9	365.1	315.9	262.8	209.6	178.1	165.3	164.4
40°	5023.0	4724.8	2363.9	408.4	325.7	266.7	202.7	162.4	140.7	130.9	131.9
42.5°	5636.1	5170.6	1931.9	352.3	287.4	219.5	158.4	127.9	114.2	107.3	105.3
45°	6317.2	5610.6	1479.2	313.9	249.0	177.1	124.0	101.4	90.5	86.6	86.6
47.5°	7066.1	6038.7	1082.5	280.5	207.7	136.8	99.4	82.7	73.8	70.9	69.9
50°	7746.1	6335.9	780.4	245.0	170.3	108.3	80.7	68.9	63.0	59.0	59.0
52.5°	8313.0	6429.4	574.7	206.7	137.8	86.6	66.9	59.0	53.1	50.2	50.2
55°	8812.0	6391.0	427.1	170.3	111.2	70.9	57.1	50.2	45.3	42.3	42.3
57.5°	9290.2	6267.0	318.9	138.8	89.6	57.1	48.2	42.3	37.4	35.4	35.4
60°	9680.9	6060.3	237.2	112.2	71.8	46.3	40.3	34.4	30.5	27.6	27.6
62.5°	9997.8	5832.0	174.2	92.5	57.1	36.4	31.5	28.5	22.6	19.7	19.7
65°	9999.8	5453.1	130.9	76.8	44.3	28.5	23.6	22.6	14.8	11.8	10.8
67.5°	9276.5	4701.2	100.4	65.9	34.4	21.7	17.7	18.7	7.9	4.9	3.9
68°	9013.7	4510.3	94.5	65.0	32.5	20.7	16.7	18.7	6.9	3.9	3.0
70°	7599.5	3588.2	75.8	63.0	28.5	15.7	13.8	18.7	5.9	3.0	2.0
72.5°	4860.6	2082.4	56.1	50.2	21.7	11.8	8.9	16.7	5.9	2.0	1.0
75°	2068.7	645.6	38.4	35.4	12.8	8.9	5.9	10.8	3.9	1.0	0.0
77.5°	436.0	145.7	22.6	21.7	8.9	5.9	3.9	3.0	1.0	0.0	0.0
80°	112.2	42.3	11.8	10.8	4.9	3.0	2.0	0.0	0.0	0.0	0.0
82.5°	35.4	16.7	6.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	9.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	3.0	1.0	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)