

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: P322199

Luminaire Tested: **GAN-SA5B-730-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322199  
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-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 18955 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

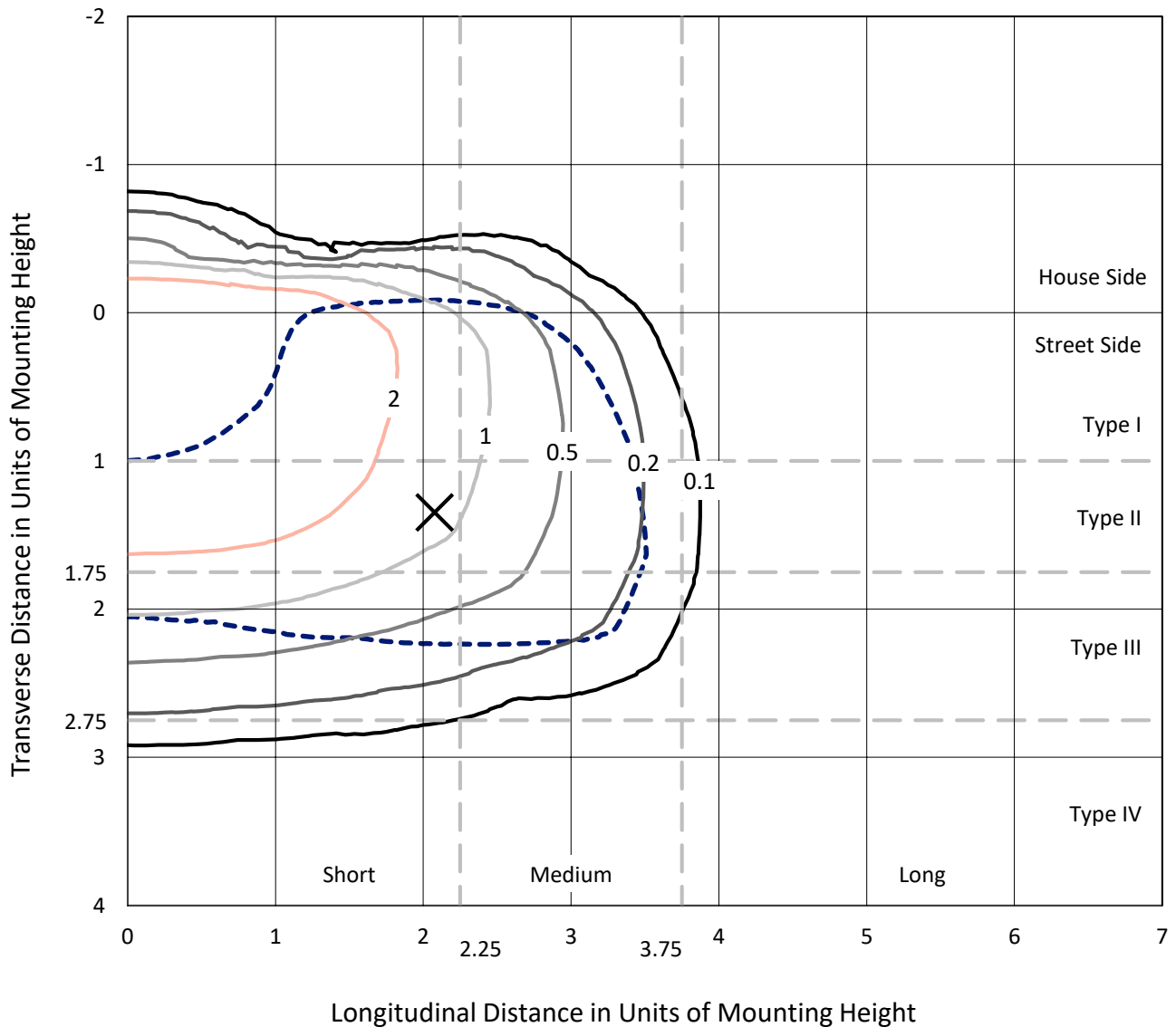
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

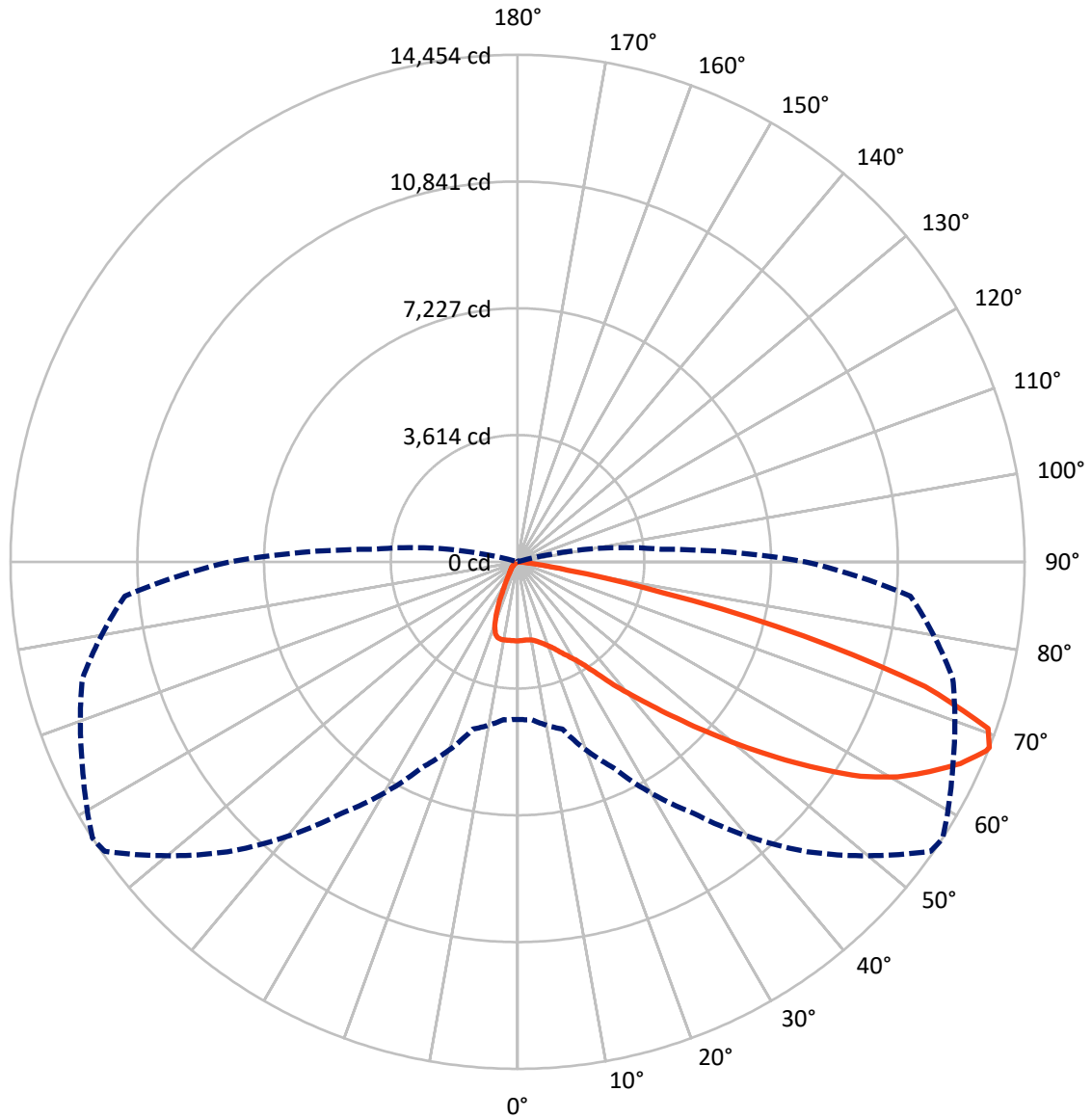
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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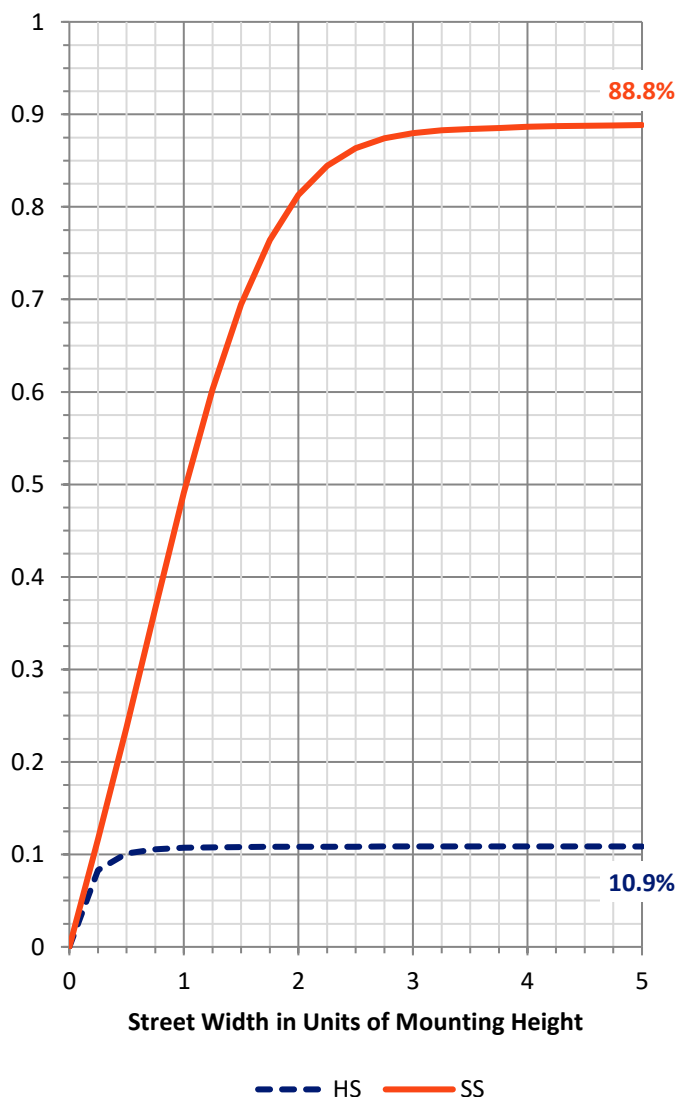
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2078.5	0.0	2078.5
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	16876.5	0.0	16876.5
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	18955.0	0.0	18955.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.8	1.1
10°-20°	584.1	3.1
20°-30°	1007.6	5.3
30°-40°	1739.1	9.2
40°-50°	2974.8	15.7
50°-60°	4759.5	25.1
60°-70°	5499.0	29.0
70°-80°	2101.3	11.1
80°-90°	78.8	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°	18955.0	100.0
0°-180°	18955.0	100.0

**Coefficient of Utilization**



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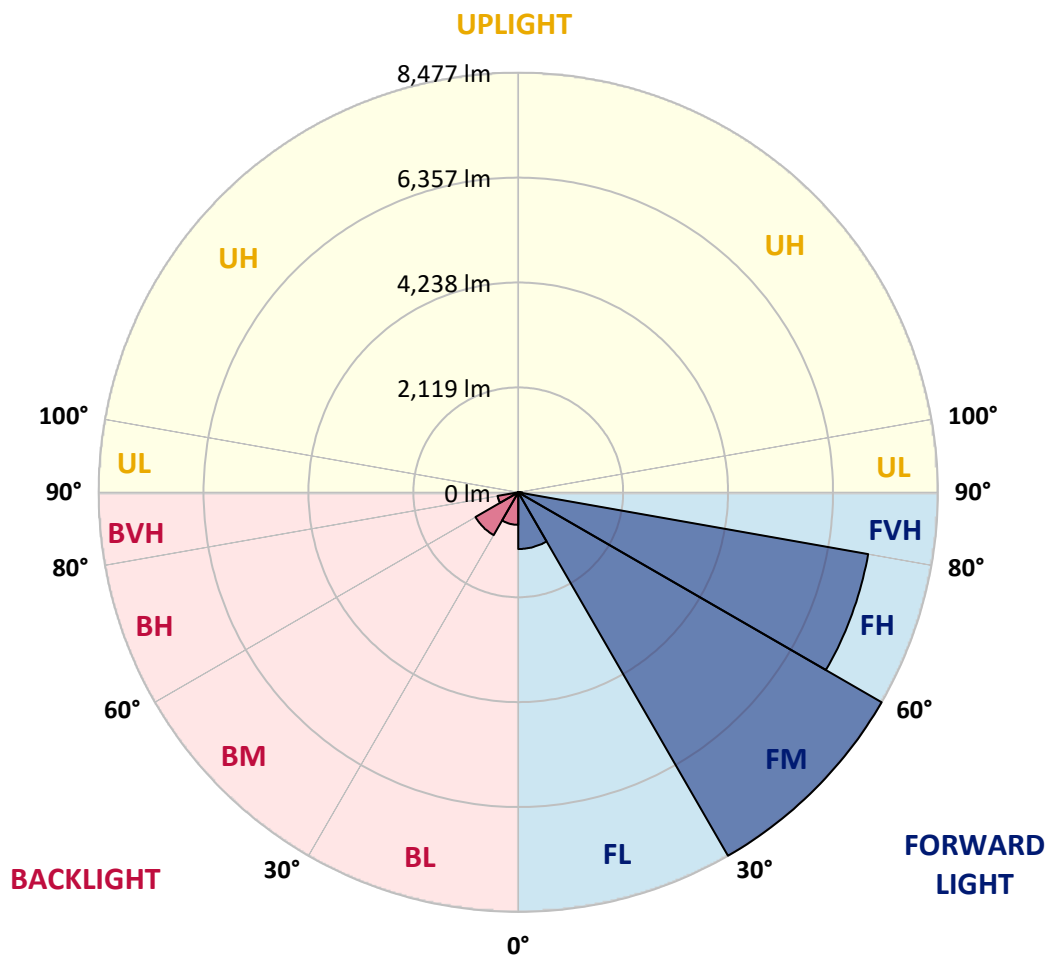
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.6	6.0			
FM (30°-60°)	8476.5	44.7			
FH (60°-80°)	7177.0	37.9			G3/7500
FVH (80°-90°)	77.3	0.4			G1/100
BL (0°-30°)	656.9	3.5	B2/1000		
BM (30°-60°)	996.9	5.3	B1/1000		
BH (60°-80°)	423.3	2.2	B1/500		G1/500
BVH (80°-90°)	1.4	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4
2.5°	2199.5	2209.3	2216.5	2221.0	2226.4	2238.0	2241.6	2247.0	2249.7	2249.7	2255.9
5°	2112.5	2123.3	2138.5	2151.1	2176.2	2208.4	2231.7	2240.7	2256.8	2271.2	2279.2
7.5°	2031.9	2044.4	2062.3	2091.9	2134.9	2186.9	2235.3	2247.9	2279.2	2309.7	2325.0
10°	1979.9	1989.7	2013.0	2055.2	2111.6	2184.2	2252.4	2267.6	2321.4	2372.5	2401.1
12.5°	1962.0	1970.9	1995.1	2042.6	2112.5	2197.7	2291.8	2314.2	2393.1	2467.5	2507.8
15°	1988.0	1989.7	2015.7	2060.5	2129.6	2230.8	2357.2	2384.1	2483.6	2580.4	2630.6
17.5°	2088.3	2080.3	2093.7	2113.4	2168.1	2274.8	2426.2	2466.6	2599.2	2713.0	2760.5
20°	2339.3	2339.3	2308.8	2255.0	2255.9	2342.9	2519.4	2565.2	2727.4	2859.1	2902.2
22.5°	2768.6	2760.5	2699.6	2567.8	2446.8	2460.3	2633.3	2692.4	2881.5	3022.3	3036.6
25°	3284.9	3275.0	3180.9	2995.4	2785.6	2650.3	2787.4	2855.6	3065.3	3189.9	3160.3
27.5°	3831.6	3823.5	3730.3	3500.0	3201.5	2953.2	2971.2	3035.7	3252.6	3375.4	3281.3
30°	4361.3	4364.0	4271.7	4035.1	3697.2	3339.5	3204.2	3241.8	3434.5	3559.1	3424.7
32.5°	4865.0	4868.6	4788.8	4524.4	4208.9	3788.6	3526.9	3517.0	3646.1	3768.9	3614.7
35°	5314.0	5323.0	5268.3	5063.1	4728.8	4288.7	3945.4	3922.1	3946.3	4085.2	3906.0
37.5°	5747.0	5752.3	5711.1	5538.1	5258.5	4838.1	4474.2	4441.1	4389.1	4495.7	4290.5
40°	6221.1	6207.6	6160.1	6003.3	5763.1	5444.9	5042.5	4985.1	4894.6	4989.6	4796.0
42.5°	6662.1	6646.8	6654.9	6477.4	6274.9	6068.7	5704.8	5606.2	5553.4	5662.7	5416.2
45°	7213.3	7205.2	7232.1	7077.9	6913.9	6764.2	6464.0	6356.4	6333.1	6461.3	6166.4
47.5°	7757.3	7777.0	7860.4	7795.0	7728.6	7596.9	7267.9	7219.5	7233.9	7388.9	6957.8
50°	8210.8	8234.1	8462.7	8538.0	8633.9	8556.8	8227.0	8197.4	8253.9	8393.7	7809.3
52.5°	8538.9	8586.4	8870.5	9217.4	9566.9	9618.9	9290.0	9263.1	9339.2	9360.8	8467.2
55°	8766.5	8808.6	9130.4	9765.0	10476.6	10700.7	10496.3	10392.4	10378.0	10165.6	9159.1
57.5°	8806.9	8802.4	9264.9	10119.0	11190.1	11768.2	11639.1	11536.9	11242.9	10909.5	9952.3
60°	8579.2	8605.2	9142.1	10241.8	11638.2	12575.7	12585.6	12452.9	11994.9	11632.8	10721.3
62.5°	7878.3	7984.1	8526.3	9920.0	11632.8	12901.1	13279.3	13178.0	12630.4	12225.3	11501.1
65°	6741.8	6779.5	7296.6	8817.6	10846.8	12764.8	13904.0	13866.4	13203.1	12800.7	11901.7
67.5°	4923.3	4841.7	5384.9	6943.5	9183.3	11970.7	14352.1	14399.6	13645.0	12919.0	11475.1
68°	4493.1	4517.3	4940.3	6480.1	8747.7	11690.2	14381.7	14454.3	13688.9	12841.9	11242.1
70°	2678.1	2724.7	3102.0	4461.7	6654.9	10102.9	14062.6	14228.5	13427.2	12046.9	9723.8
72.5°	683.9	739.4	1096.2	1996.9	3801.1	7118.3	11871.2	12151.8	11657.9	9773.0	6564.4
75°	281.4	295.8	391.7	657.9	1416.1	3206.9	7824.5	8425.0	8081.8	5850.9	2966.7
77.5°	194.5	204.4	251.9	364.8	613.1	1087.2	3836.1	4269.9	3846.8	1996.9	647.1
80°	139.8	147.9	180.2	242.9	352.2	388.1	1250.3	1445.7	1148.1	438.3	160.4
82.5°	83.4	89.6	134.4	173.0	214.2	185.5	311.0	353.1	332.5	217.8	71.7
85°	41.2	48.4	90.5	123.7	115.6	78.0	95.0	105.8	130.9	132.6	38.5
87.5°	2.7	5.4	52.9	74.4	32.3	17.9	27.8	34.1	46.6	65.4	16.1
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°	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4
2.5°	2258.6	2259.5	2253.3	2250.6	2252.4	2241.6	2237.1	2238.9	2238.9	2241.6	2237.1
5°	2281.0	2281.0	2270.3	2255.9	2247.9	2227.3	2213.8	2210.2	2207.5	2205.7	2202.2
7.5°	2329.4	2324.1	2305.2	2273.9	2247.0	2202.2	2168.1	2150.2	2141.2	2137.6	2134.9
10°	2407.4	2397.6	2366.2	2307.9	2246.1	2166.3	2091.9	2039.0	1995.1	1977.2	1966.4
12.5°	2512.3	2497.9	2445.1	2348.3	2239.8	2092.8	1931.5	1776.4	1632.1	1573.0	1543.4
15°	2633.3	2612.7	2529.3	2382.3	2203.1	1927.0	1576.6	1305.0	1105.1	1029.8	997.6
17.5°	2756.1	2729.2	2602.8	2403.8	2092.8	1583.7	1106.0	835.3	701.8	665.9	653.4
20°	2879.8	2840.3	2666.4	2387.7	1843.6	1141.9	729.6	610.4	571.8	561.1	557.5
22.5°	2997.2	2936.2	2723.8	2325.0	1460.0	766.3	577.2	539.6	527.0	520.7	518.9
25°	3099.3	3014.2	2774.0	2131.4	1033.4	579.0	519.8	507.3	491.2	479.5	480.4
27.5°	3195.2	3092.2	2804.5	1812.3	689.2	494.7	481.3	464.3	434.7	417.7	417.7
30°	3310.9	3196.1	2826.9	1394.6	507.3	437.4	426.6	400.6	360.3	337.9	337.9
32.5°	3484.7	3353.9	2812.5	978.7	420.4	384.5	359.4	323.6	279.6	258.1	257.2
35°	3750.9	3597.7	2710.4	641.7	371.1	334.3	294.0	250.1	211.5	193.6	192.7
37.5°	4109.4	3923.9	2480.9	458.9	332.5	287.7	239.3	190.9	162.2	150.6	149.7
40°	4574.6	4303.0	2152.9	372.0	296.7	242.9	184.6	147.9	128.2	119.2	120.1
42.5°	5133.0	4709.1	1759.4	320.9	261.7	199.9	144.3	116.5	104.0	97.7	95.9
45°	5753.2	5109.7	1347.1	285.9	226.8	161.3	112.9	92.3	82.5	78.9	78.9
47.5°	6435.3	5499.6	985.9	255.4	189.1	124.6	90.5	75.3	67.2	64.5	63.6
50°	7054.6	5770.3	710.8	223.2	155.1	98.6	73.5	62.7	57.4	53.8	53.8
52.5°	7570.9	5855.4	523.4	188.2	125.5	78.9	60.9	53.8	48.4	45.7	45.7
55°	8025.3	5820.4	389.0	155.1	101.3	64.5	52.0	45.7	41.2	38.5	38.5
57.5°	8460.9	5707.5	290.4	126.4	81.6	52.0	43.9	38.5	34.1	32.3	32.3
60°	8816.7	5519.3	216.0	102.2	65.4	42.1	36.7	31.4	27.8	25.1	25.1
62.5°	9105.3	5311.4	158.6	84.3	52.0	33.2	28.7	26.0	20.6	17.9	17.9
65°	9107.1	4966.3	119.2	69.9	40.3	26.0	21.5	20.6	13.4	10.8	9.9
67.5°	8448.3	4281.5	91.4	60.1	31.4	19.7	16.1	17.0	7.2	4.5	3.6
68°	8209.0	4107.7	86.0	59.2	29.6	18.8	15.2	17.0	6.3	3.6	2.7
70°	6921.1	3267.8	69.0	57.4	26.0	14.3	12.5	17.0	5.4	2.7	1.8
72.5°	4426.7	1896.5	51.1	45.7	19.7	10.8	8.1	15.2	5.4	1.8	0.9
75°	1884.0	588.0	35.0	32.3	11.7	8.1	5.4	9.9	3.6	0.9	0.0
77.5°	397.1	132.6	20.6	19.7	8.1	5.4	3.6	2.7	0.9	0.0	0.0
80°	102.2	38.5	10.8	9.9	4.5	2.7	1.8	0.0	0.0	0.0	0.0
82.5°	32.3	15.2	6.3	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	2.7	0.9	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)