

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: P322779

Luminaire Tested: **GAN-SA5D-722-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322779  
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-SA5D-722-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 1200mA 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: 20245 lumens  
Efficiency: N/A  
Efficacy: 63.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

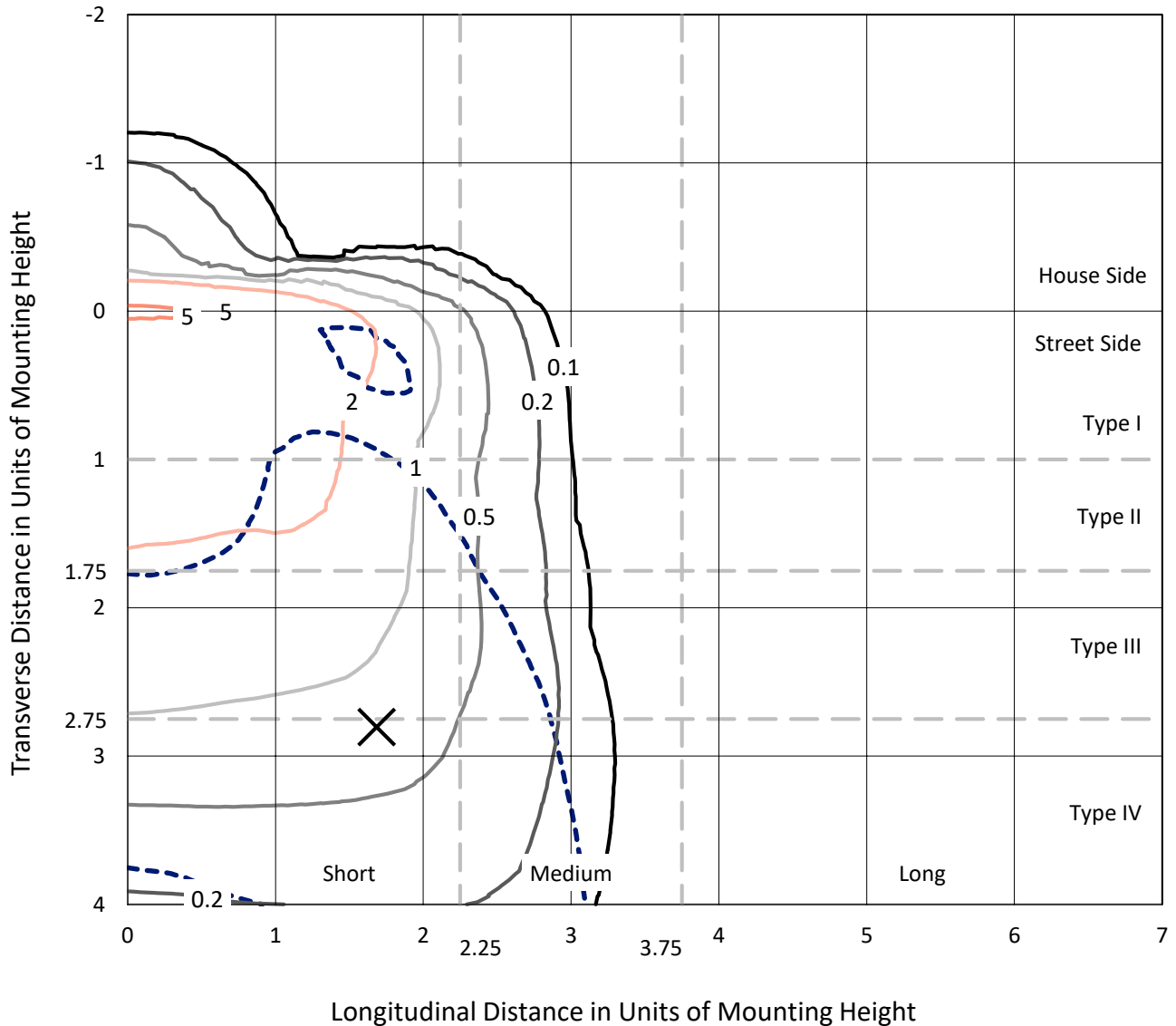
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

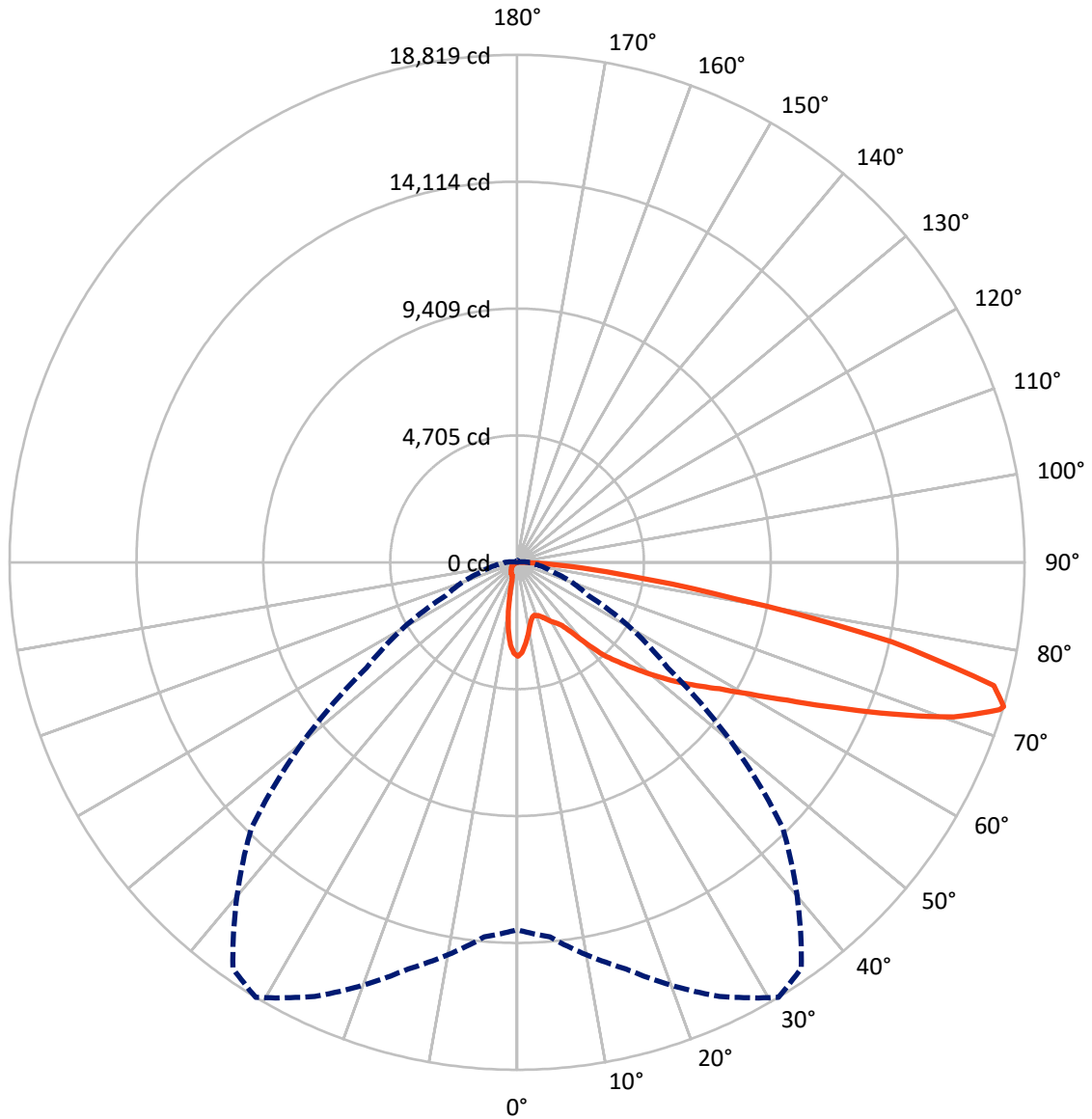
× Max cd  
 - - - 1/2 Max cd



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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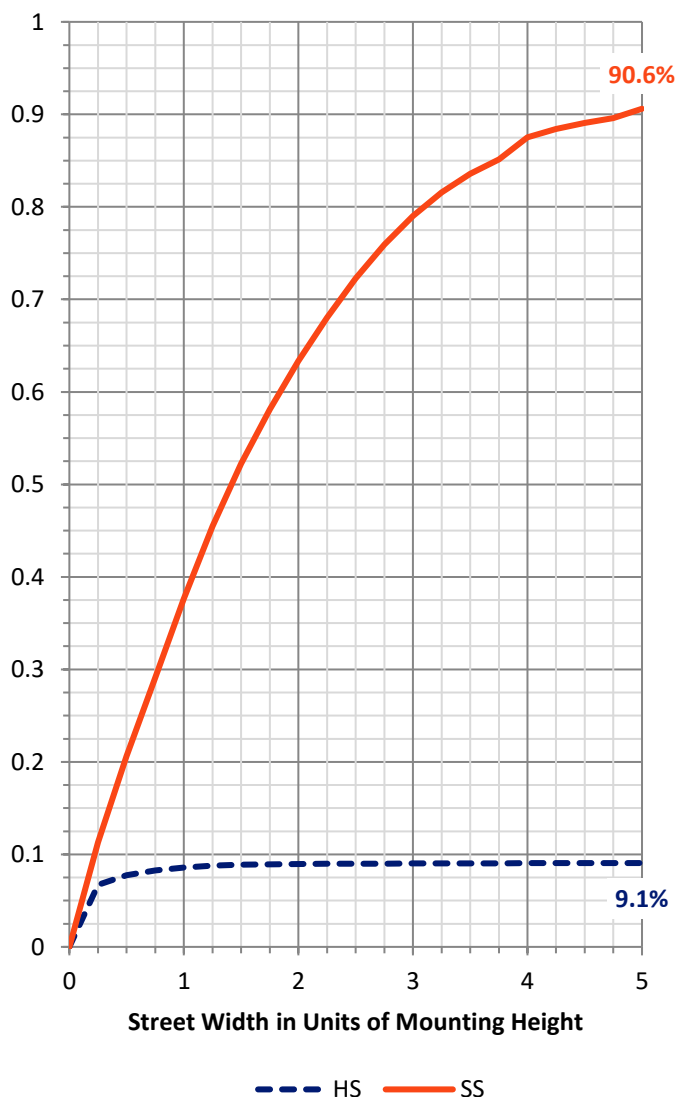
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1845.4	0.0	1845.4
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	18399.6	0.0	18399.6
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	20245.0	0.0	20245.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.8	1.4
10°-20°	627.1	3.1
20°-30°	939.5	4.6
30°-40°	1494.8	7.4
40°-50°	2669.3	13.2
50°-60°	4142.1	20.5
60°-70°	5506.3	27.2
70°-80°	4141.8	20.5
80°-90°	435.2	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°	20245.0	100.0
0°-180°	20245.0	100.0

**Coefficient of Utilization**

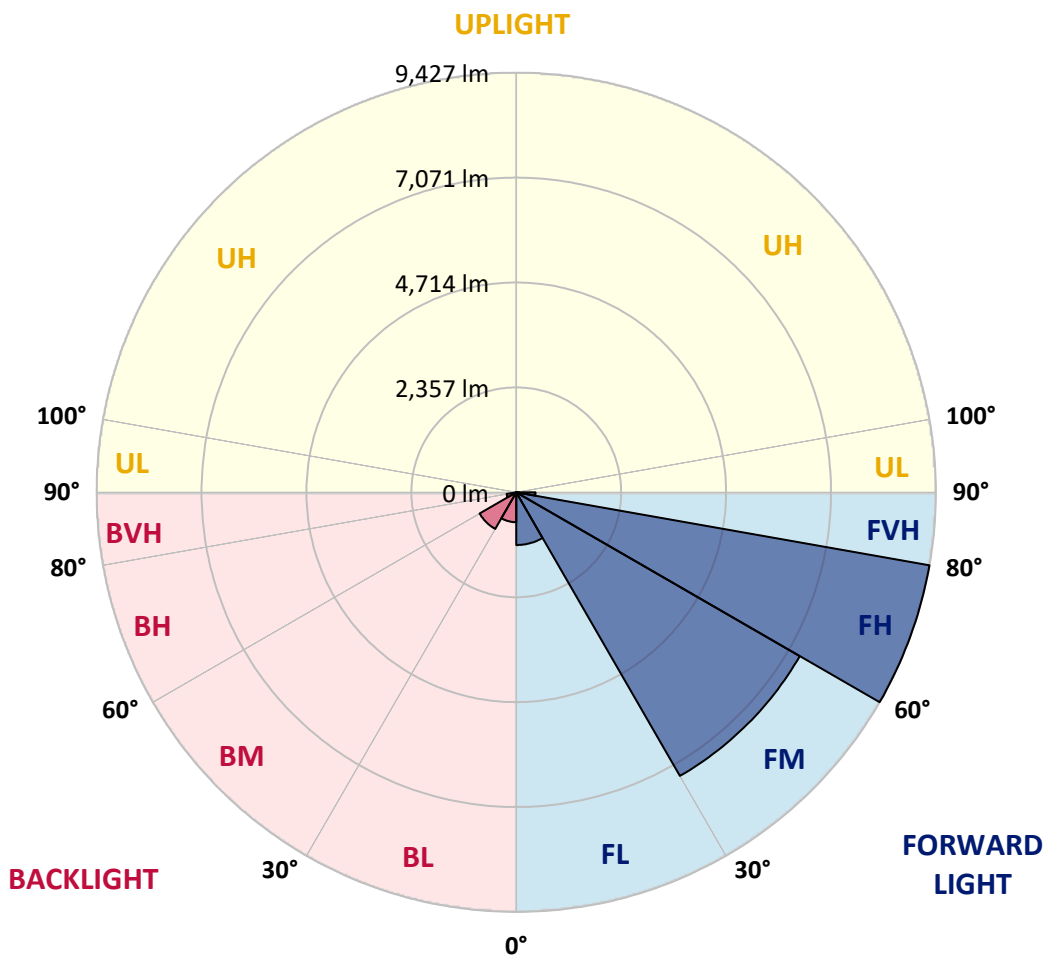


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.4	5.9			
FM (30°-60°)	7356.3	36.3			
FH (60°-80°)	9427.3	46.6			G4/12000
FVH (80°-90°)	431.6	2.1			G3/500
BL (0°-30°)	671.1	3.3	B2/1000		
BM (30°-60°)	949.9	4.7	B1/1000		
BH (60°-80°)	220.8	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°	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2
2.5°	3300.9	3314.8	3329.6	3332.6	3357.4	3358.4	3394.0	3420.8	3447.5	3473.3	3482.2
5°	2962.1	2984.9	3011.6	3038.4	3090.9	3111.7	3198.9	3288.0	3373.2	3454.5	3494.1
7.5°	2600.5	2626.3	2663.9	2730.3	2788.7	2829.4	2967.1	3125.6	3284.1	3433.7	3519.8
10°	2270.6	2294.4	2334.0	2404.4	2494.5	2550.0	2735.2	2955.2	3188.0	3414.8	3558.5
12.5°	2060.6	2073.5	2095.3	2170.6	2251.8	2314.2	2532.2	2804.6	3108.7	3413.8	3620.9
15°	2022.0	2025.9	2008.1	2041.8	2105.2	2165.6	2386.5	2682.7	3048.3	3429.7	3702.1
17.5°	2083.4	2081.4	2022.0	2018.0	2068.5	2118.1	2315.2	2598.5	3005.7	3466.4	3807.1
20°	2176.5	2169.6	2066.5	2047.7	2101.2	2147.8	2310.2	2566.8	2989.8	3527.8	3934.9
22.5°	2300.3	2288.4	2127.0	2107.2	2164.6	2213.2	2371.7	2597.5	3003.7	3610.0	4083.5
25°	2453.9	2436.1	2231.0	2209.2	2267.6	2316.2	2481.6	2685.7	3045.3	3710.1	4271.8
27.5°	2627.3	2601.5	2397.4	2341.0	2407.3	2457.9	2628.2	2820.4	3110.7	3816.1	4502.6
30°	2790.7	2757.0	2572.8	2479.6	2560.9	2617.3	2786.8	2980.9	3215.7	3979.5	4818.6
32.5°	2955.2	2917.5	2729.3	2618.3	2691.6	2753.1	2950.2	3201.8	3412.9	4229.2	5238.7
35°	3333.6	3294.0	3063.1	2879.9	2878.9	2913.6	3179.1	3504.0	3673.4	4576.9	5739.9
37.5°	3970.6	3947.8	3727.9	3380.2	3287.0	3248.4	3491.1	3864.6	4047.9	5055.4	6305.6
40°	4668.0	4648.2	4401.5	4086.5	3944.8	3849.7	3938.9	4366.9	4576.9	5639.9	6883.2
42.5°	5455.6	5361.5	4921.6	4827.5	4700.7	4628.4	4548.2	4986.0	5226.8	6275.9	7455.8
45°	6170.9	6012.4	5441.7	5299.1	5270.4	5288.2	5332.8	5818.2	5957.9	7031.8	8026.4
47.5°	6596.9	6472.0	6034.2	5897.5	5889.5	6007.4	6344.2	6758.3	6686.0	7690.6	8528.7
50°	7002.1	6889.1	6525.5	6559.2	6595.9	6756.4	7492.4	7725.2	7350.8	8287.9	8989.3
52.5°	7330.0	7157.6	6967.4	7156.6	7336.9	7595.5	8677.3	8593.1	7822.3	8763.5	9383.6
55°	7519.2	7440.9	7533.1	7723.3	8062.1	8482.1	9795.7	9315.3	8167.1	9197.4	9646.1
57.5°	8212.6	8059.1	8242.4	8406.8	8848.7	9436.1	10753.7	9853.2	8415.7	9465.8	9706.6
60°	9051.7	8927.9	9035.9	9309.3	9905.7	10596.2	11649.3	10292.1	8545.5	9638.2	9550.1
62.5°	10387.2	10223.7	10156.3	10462.5	11253.0	12006.9	12328.9	10596.2	8516.8	9561.9	9013.1
65°	12176.3	12006.9	11705.8	11983.1	12988.7	13520.7	13088.7	10660.6	8318.7	8944.8	7655.9
67.5°	14009.1	13886.2	13628.6	14096.2	15003.7	15175.1	13892.2	10504.1	7680.7	7252.7	5409.1
70°	15219.7	15167.1	15334.6	16368.8	17178.2	17128.7	14629.2	9663.0	5986.6	4460.0	2675.8
72.5°	14346.9	14598.5	15834.9	17710.2	18698.9	18294.7	14250.8	7420.1	3421.8	1715.8	773.7
73°	13623.7	13945.7	15610.0	17760.7	18818.8	18375.9	13932.8	6810.9	2916.5	1354.2	586.5
75°	9477.7	9873.0	12923.3	16541.2	18258.0	17508.1	11613.6	4168.7	1351.3	600.3	236.8
77.5°	4601.7	4893.9	7116.0	11951.4	14199.3	13679.2	7229.9	1553.4	610.3	375.5	109.0
80°	1717.8	1910.0	3088.9	6082.7	8205.7	8420.7	3180.0	587.5	406.2	302.2	55.5
82.5°	449.8	501.3	1139.3	2712.5	4205.4	4401.5	1002.6	296.2	297.2	248.7	33.7
85°	143.6	164.5	355.7	1217.5	1981.3	1739.6	261.5	143.6	216.0	185.3	18.8
87.5°	17.8	22.8	112.9	286.3	436.9	242.7	40.6	42.6	92.1	103.0	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°	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2
2.5°	3491.1	3486.2	3487.2	3461.4	3444.6	3410.9	3376.2	3360.4	3343.5	3336.6	3343.5
5°	3509.0	3500.0	3474.3	3395.0	3310.8	3201.8	3099.8	3022.5	2925.4	2898.7	2926.4
7.5°	3536.7	3518.9	3443.6	3282.1	3094.9	2886.8	2653.0	2482.6	2342.9	2252.8	2285.5
10°	3577.3	3543.6	3392.1	3117.6	2782.8	2414.3	2082.4	1823.8	1640.5	1565.3	1562.3
12.5°	3645.7	3582.3	3328.6	2903.7	2401.4	1910.0	1475.1	1194.7	1046.1	950.1	948.1
15°	3721.0	3627.8	3248.4	2647.1	1957.6	1368.1	950.1	737.1	641.0	610.3	606.3
17.5°	3813.1	3680.3	3144.4	2331.0	1492.9	906.5	620.2	558.7	554.8	551.8	551.8
20°	3929.0	3742.7	3010.6	1969.5	1059.0	605.3	527.0	531.0	533.0	529.0	530.0
22.5°	4063.7	3806.2	2851.1	1581.1	716.3	506.2	504.3	509.2	511.2	509.2	510.2
25°	4220.3	3879.5	2657.0	1173.9	517.1	480.5	485.4	492.4	497.3	497.3	497.3
27.5°	4414.4	3968.6	2423.2	819.3	446.8	453.7	467.6	480.5	487.4	489.4	489.4
30°	4667.0	4079.6	2142.8	561.7	406.2	418.1	443.8	468.6	481.5	483.4	484.4
32.5°	4986.0	4204.4	1817.9	415.1	371.5	380.4	408.2	449.8	474.5	478.5	478.5
35°	5351.6	4349.0	1468.2	361.6	346.7	349.7	371.5	419.1	462.6	473.5	474.5
37.5°	5751.8	4491.7	1116.5	337.8	325.9	325.9	341.8	382.4	433.9	467.6	471.6
40°	6125.3	4577.9	782.6	319.0	307.1	307.1	321.0	350.7	399.2	449.8	460.7
42.5°	6470.1	4607.6	544.9	301.2	289.3	292.2	304.1	327.9	364.6	415.1	425.0
45°	6824.7	4602.7	397.3	280.4	271.4	280.4	289.3	307.1	333.9	362.6	364.6
47.5°	7092.2	4561.0	315.0	260.5	254.6	266.5	274.4	286.3	301.2	299.2	299.2
50°	7342.8	4460.0	253.6	233.8	237.8	251.6	255.6	259.6	260.5	241.7	239.7
52.5°	7533.1	4302.5	203.1	205.1	220.9	234.8	230.8	224.9	215.0	192.2	188.2
55°	7596.5	3999.3	159.5	169.4	196.2	214.0	199.1	186.2	167.4	148.6	144.6
57.5°	7481.5	3608.0	129.8	131.8	165.4	180.3	163.5	148.6	127.8	111.9	109.0
60°	7237.8	3173.1	107.0	99.1	127.8	140.7	129.8	114.9	96.1	84.2	83.2
62.5°	6754.4	2709.5	88.2	77.3	97.1	108.0	101.0	90.2	74.3	66.4	65.4
65°	5738.0	2167.6	71.3	62.4	75.3	84.2	78.3	70.3	58.4	52.5	51.5
67.5°	4005.3	1465.2	58.4	51.5	59.4	66.4	61.4	57.5	46.6	45.6	46.6
70°	1931.8	706.3	48.5	41.6	46.6	51.5	49.5	46.6	44.6	51.5	59.4
72.5°	553.8	236.8	38.6	34.7	37.6	40.6	42.6	41.6	48.5	62.4	72.3
73°	426.0	191.2	36.7	32.7	35.7	39.6	41.6	40.6	49.5	63.4	72.3
75°	182.3	92.1	27.7	26.7	29.7	34.7	36.7	36.7	49.5	64.4	69.3
77.5°	82.2	49.5	17.8	20.8	25.8	27.7	30.7	30.7	39.6	49.5	49.5
80°	46.6	26.7	13.9	15.9	18.8	18.8	18.8	16.8	17.8	19.8	21.8
82.5°	29.7	17.8	10.9	12.9	11.9	9.9	7.9	7.9	6.9	7.9	9.9
85°	16.8	9.9	9.9	7.9	5.0	4.0	5.0	4.0	1.0	0.0	1.0
87.5°	9.9	5.9	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)