

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: P322528

Luminaire Tested: **GAN-SA4C-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322528  
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-SA4C-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA 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: 18453 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

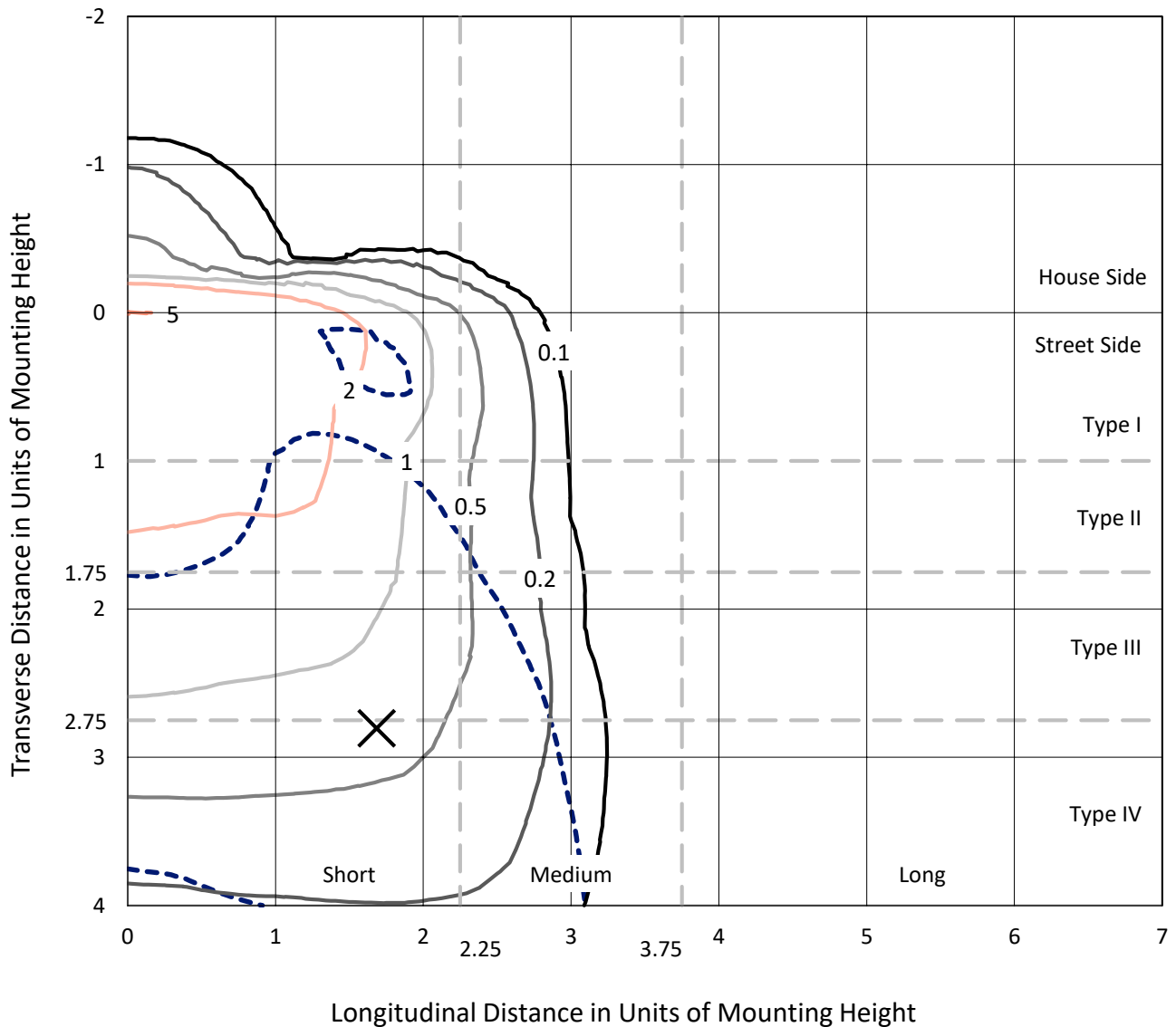
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

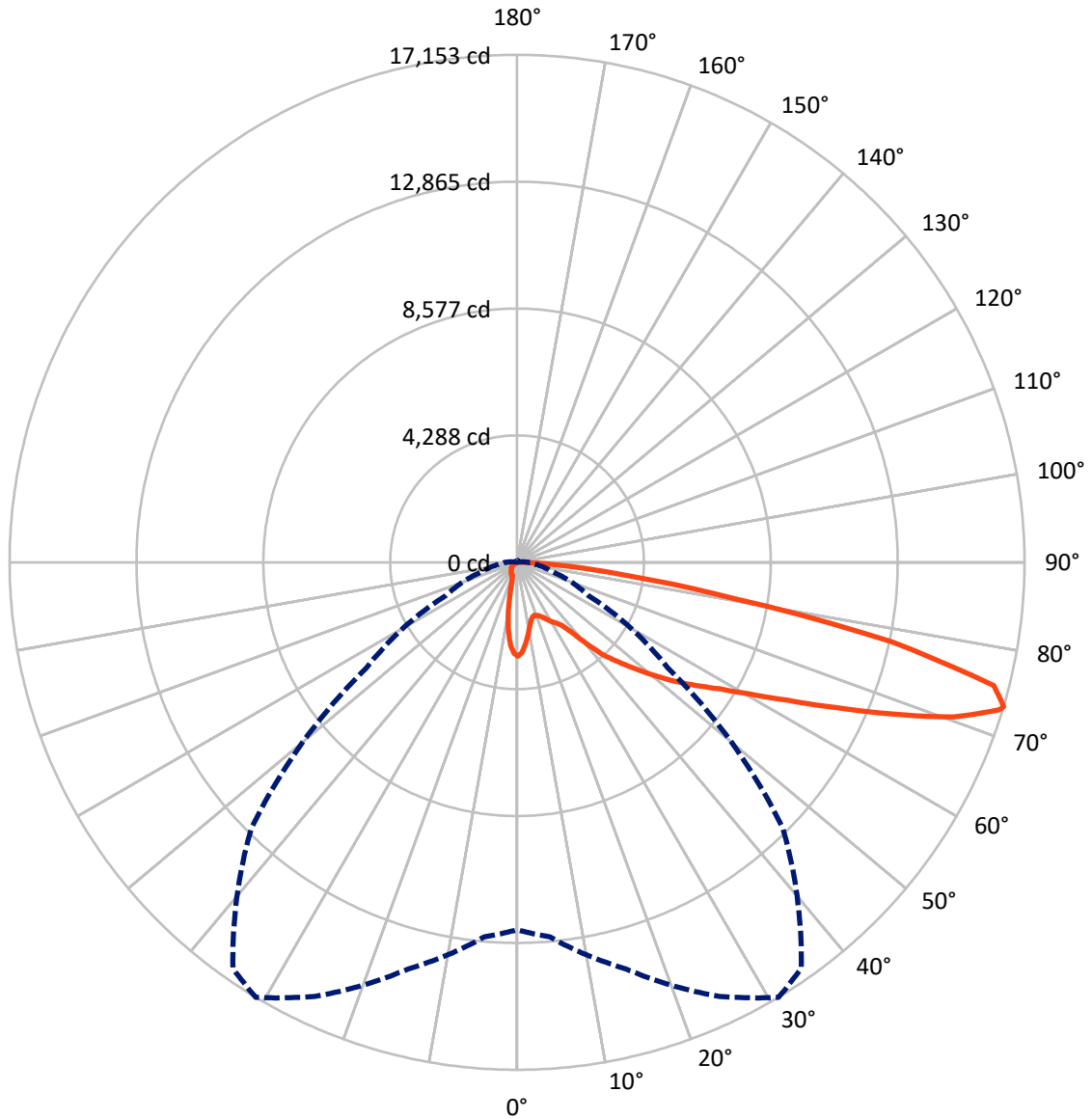
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type 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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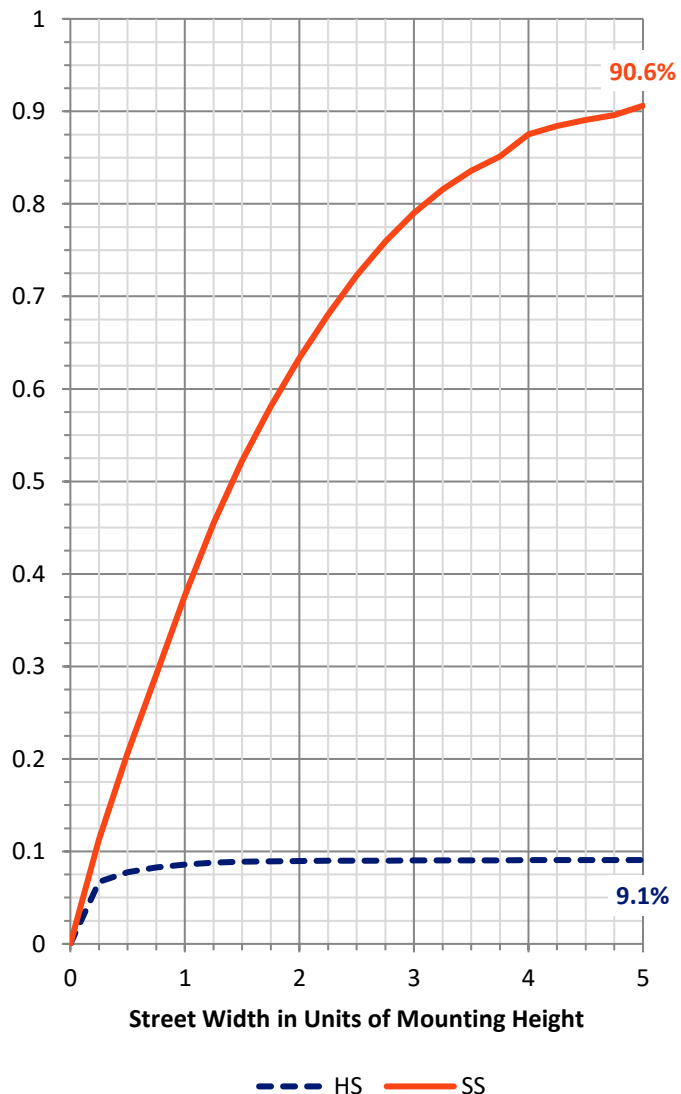
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1682.1	0.0	1682.1
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	16770.9	0.0	16770.9
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	18453.0	0.0	18453.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.2	1.4
10°-20°	571.6	3.1
20°-30°	856.4	4.6
30°-40°	1362.5	7.4
40°-50°	2433.1	13.2
50°-60°	3775.4	20.5
60°-70°	5018.9	27.2
70°-80°	3775.2	20.5
80°-90°	396.7	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°	18453.0	100.0
0°-180°	18453.0	100.0

**Coefficient of Utilization**



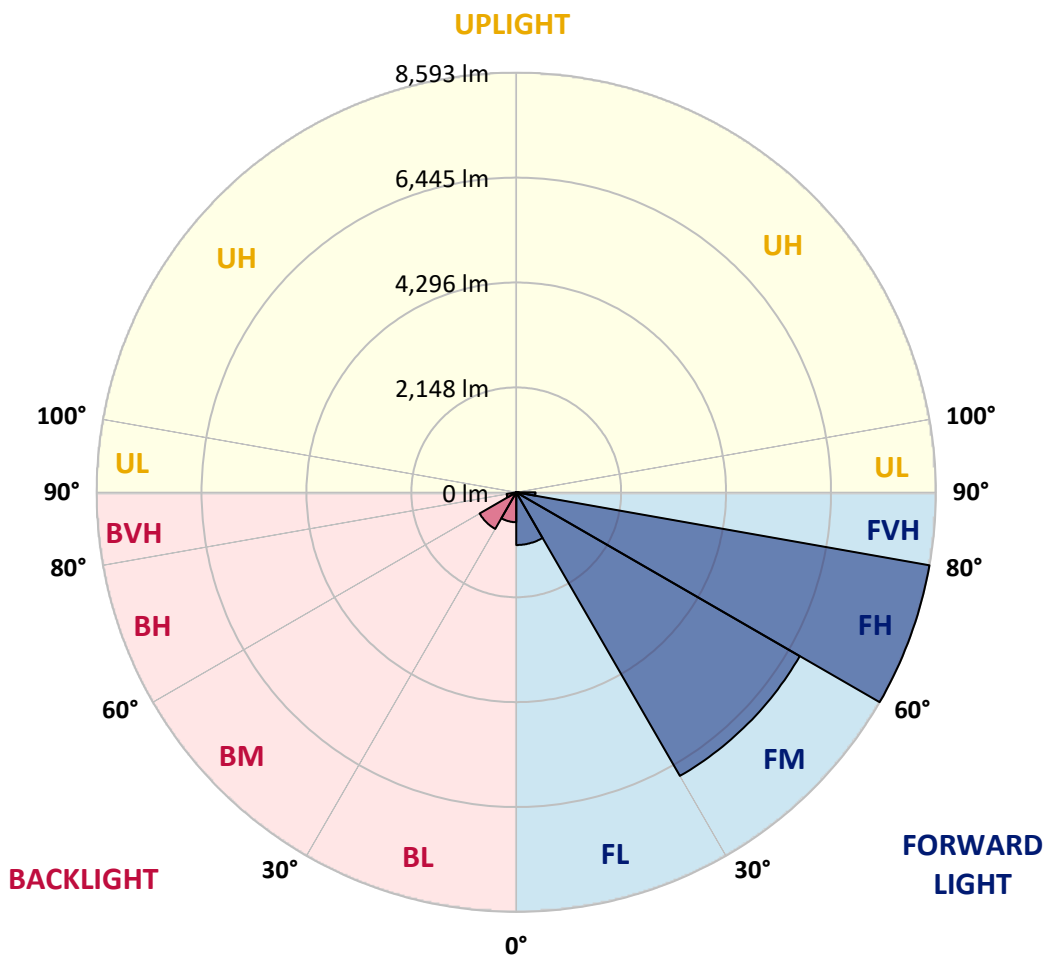
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.5	5.9			
FM (30°-60°)	6705.2	36.3			
FH (60°-80°)	8592.9	46.6			G4/12000
FVH (80°-90°)	393.4	2.1			G3/500
BL (0°-30°)	611.7	3.3	B2/1000		
BM (30°-60°)	865.8	4.7	B1/1000		
BH (60°-80°)	201.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	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°	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9
2.5°	3008.7	3021.4	3034.9	3037.6	3060.2	3061.1	3093.6	3118.0	3142.4	3165.8	3174.0
5°	2699.9	2720.7	2745.1	2769.4	2817.3	2836.3	2915.7	2997.0	3074.6	3148.7	3184.8
7.5°	2370.3	2393.8	2428.1	2488.6	2541.9	2578.9	2704.4	2848.9	2993.4	3129.7	3208.3
10°	2069.6	2091.3	2127.4	2191.5	2273.7	2324.3	2493.1	2693.6	2905.8	3112.6	3243.5
12.5°	1878.2	1889.9	1909.8	1978.4	2052.5	2109.4	2308.0	2556.3	2833.6	3111.7	3300.4
15°	1843.0	1846.6	1830.3	1861.0	1918.8	1973.9	2175.3	2445.3	2778.5	3126.1	3374.4
17.5°	1899.0	1897.2	1843.0	1839.4	1885.4	1930.6	2110.3	2368.5	2739.6	3159.5	3470.2
20°	1983.8	1977.5	1883.6	1866.5	1915.2	1957.7	2105.7	2339.6	2725.2	3215.5	3586.6
22.5°	2096.7	2085.9	1938.7	1920.6	1973.0	2017.3	2161.7	2367.6	2737.8	3290.5	3722.1
25°	2236.7	2220.4	2033.5	2013.6	2066.9	2111.2	2262.0	2448.0	2775.8	3381.7	3893.6
27.5°	2394.7	2371.2	2185.2	2133.7	2194.2	2240.3	2395.6	2570.8	2835.4	3478.3	4104.0
30°	2543.7	2513.0	2345.0	2260.2	2334.2	2385.7	2540.1	2717.1	2931.1	3627.3	4392.1
32.5°	2693.6	2659.3	2487.7	2386.6	2453.4	2509.4	2689.1	2918.4	3110.8	3854.8	4775.0
35°	3038.5	3002.4	2792.0	2625.0	2624.1	2655.7	2897.7	3193.8	3348.2	4171.8	5231.9
37.5°	3619.1	3598.4	3397.9	3081.0	2996.1	2960.9	3182.1	3522.5	3689.6	4607.9	5747.5
40°	4254.8	4236.8	4011.9	3724.8	3595.7	3509.0	3590.2	3980.3	4171.8	5140.7	6273.9
42.5°	4972.7	4886.9	4486.0	4400.2	4284.6	4218.7	4145.6	4544.7	4764.1	5720.4	6795.8
45°	5624.7	5480.2	4960.1	4830.0	4803.9	4820.1	4860.7	5303.2	5430.5	6409.3	7315.9
47.5°	6012.9	5899.2	5500.0	5375.4	5368.2	5475.7	5782.7	6160.1	6094.2	7009.8	7773.8
50°	6382.3	6279.3	5947.9	5978.6	6012.0	6158.3	6829.2	7041.4	6700.1	7554.3	8193.6
52.5°	6681.1	6524.0	6350.7	6523.1	6687.5	6923.1	7909.2	7832.4	7129.9	7987.8	8553.0
55°	6853.6	6782.3	6866.3	7039.6	7348.4	7731.3	8928.7	8490.7	7444.2	8383.3	8792.3
57.5°	7485.7	7345.7	7512.8	7662.7	8065.4	8600.9	9801.8	8981.0	7670.8	8628.0	8847.4
60°	8250.5	8137.7	8236.1	8485.3	9028.9	9658.3	10618.1	9381.1	7789.1	8785.1	8704.7
62.5°	9467.7	9318.8	9257.3	9536.4	10256.9	10944.1	11237.6	9658.3	7762.9	8715.6	8215.3
65°	11098.5	10944.1	10669.6	10922.4	11839.0	12323.9	11930.2	9717.0	7582.3	8153.0	6978.2
67.5°	12769.0	12657.1	12422.3	12848.5	13675.6	13831.8	12662.5	9574.3	7000.8	6610.7	4930.3
70°	13872.5	13824.6	13977.2	14919.9	15657.7	15612.5	13334.3	8807.7	5456.7	4065.2	2438.9
72.5°	13077.0	13306.3	14433.2	16142.6	17043.7	16675.3	12989.4	6763.3	3118.9	1564.0	705.2
73°	12417.8	12711.2	14228.3	16188.6	17153.0	16749.4	12699.5	6208.0	2658.4	1234.4	534.6
75°	8638.8	8999.1	11779.4	15077.1	16641.9	15958.4	10585.6	3799.7	1231.7	547.2	215.8
77.5°	4194.3	4460.7	6486.1	10893.5	12942.4	12468.3	6589.9	1415.9	556.2	342.2	99.3
80°	1565.8	1740.9	2815.5	5544.3	7479.4	7675.3	2898.6	535.5	370.2	275.4	50.6
82.5°	410.0	456.9	1038.4	2472.4	3833.1	4011.9	913.8	270.0	270.9	226.6	30.7
85°	130.9	149.9	324.2	1109.8	1806.0	1585.6	238.4	130.9	196.8	168.9	17.2
87.5°	16.3	20.8	102.9	261.0	398.2	221.2	37.0	38.8	84.0	93.9	9.9
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°	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9	3174.9
2.5°	3182.1	3177.6	3178.5	3155.0	3139.7	3109.0	3077.4	3062.9	3047.6	3041.2	3047.6
5°	3198.4	3190.2	3166.7	3094.5	3017.8	2918.4	2825.4	2755.0	2666.5	2642.1	2667.4
7.5°	3223.6	3207.4	3138.8	2991.6	2820.9	2631.3	2418.2	2262.9	2135.5	2053.4	2083.2
10°	3260.7	3230.0	3091.8	2841.7	2536.5	2200.6	1898.1	1662.4	1495.3	1426.7	1424.0
12.5°	3323.0	3265.2	3034.0	2646.6	2188.8	1740.9	1344.5	1089.0	953.5	866.0	864.2
15°	3391.6	3306.7	2960.9	2412.8	1784.3	1247.0	866.0	671.8	584.2	556.2	552.6
17.5°	3475.6	3354.6	2866.1	2124.7	1360.8	826.2	565.3	509.3	505.7	503.0	503.0
20°	3581.2	3411.5	2744.2	1795.1	965.3	551.7	480.4	484.0	485.8	482.2	483.1
22.5°	3704.0	3469.2	2598.8	1441.2	652.9	461.4	459.6	464.1	465.9	464.1	465.0
25°	3846.7	3536.1	2421.8	1070.0	471.4	437.9	442.5	448.8	453.3	453.3	453.3
27.5°	4023.7	3617.3	2208.7	746.8	407.2	413.6	426.2	437.9	444.3	446.1	446.1
30°	4253.9	3718.5	1953.1	512.0	370.2	381.1	404.5	427.1	438.8	440.7	441.6
32.5°	4544.7	3832.2	1657.0	378.3	338.6	346.7	372.0	410.0	432.5	436.1	436.1
35°	4877.9	3964.1	1338.2	329.6	316.0	318.8	338.6	382.0	421.7	431.6	432.5
37.5°	5242.7	4094.1	1017.7	307.9	297.1	297.1	311.5	348.6	395.5	426.2	429.8
40°	5583.1	4172.7	713.4	290.8	279.9	279.9	292.6	319.7	363.9	410.0	419.9
42.5°	5897.4	4199.8	496.6	274.5	263.7	266.4	277.2	298.9	332.3	378.3	387.4
45°	6220.6	4195.2	362.1	255.5	247.4	255.5	263.7	279.9	304.3	330.5	332.3
47.5°	6464.4	4157.3	287.1	237.5	232.1	242.9	250.1	261.0	274.5	272.7	272.7
50°	6692.9	4065.2	231.2	213.1	216.7	229.4	233.0	236.6	237.5	220.3	218.5
52.5°	6866.3	3921.6	185.1	186.9	201.4	214.0	210.4	205.0	195.9	175.2	171.6
55°	6924.0	3645.3	145.4	154.4	178.8	195.0	181.5	169.8	152.6	135.4	131.8
57.5°	6819.3	3288.7	118.3	120.1	150.8	164.3	149.0	135.4	116.5	102.0	99.3
60°	6597.2	2892.2	97.5	90.3	116.5	128.2	118.3	104.7	87.6	76.8	75.9
62.5°	6156.5	2469.6	80.4	70.4	88.5	98.4	92.1	82.2	67.7	60.5	59.6
65°	5230.1	1975.7	65.0	56.9	68.6	76.8	71.3	64.1	53.3	47.9	47.0
67.5°	3650.7	1335.5	53.3	47.0	54.2	60.5	56.0	52.4	42.4	41.5	42.4
70°	1760.8	643.8	44.2	37.9	42.4	47.0	45.1	42.4	40.6	47.0	54.2
72.5°	504.8	215.8	35.2	31.6	34.3	37.0	38.8	37.9	44.2	56.9	65.9
73°	388.3	174.3	33.4	29.8	32.5	36.1	37.9	37.0	45.1	57.8	65.9
75°	166.1	84.0	25.3	24.4	27.1	31.6	33.4	33.4	45.1	58.7	63.2
77.5°	74.9	45.1	16.3	19.0	23.5	25.3	28.0	28.0	36.1	45.1	45.1
80°	42.4	24.4	12.6	14.4	17.2	17.2	17.2	15.4	16.3	18.1	19.9
82.5°	27.1	16.3	9.9	11.7	10.8	9.0	7.2	7.2	6.3	7.2	9.0
85°	15.4	9.0	9.0	7.2	4.5	3.6	4.5	3.6	0.9	0.0	0.9
87.5°	9.0	5.4	2.7	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)