

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: P322871

Luminaire Tested: **GAN-SA7A-740-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322871  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23890 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 226  
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

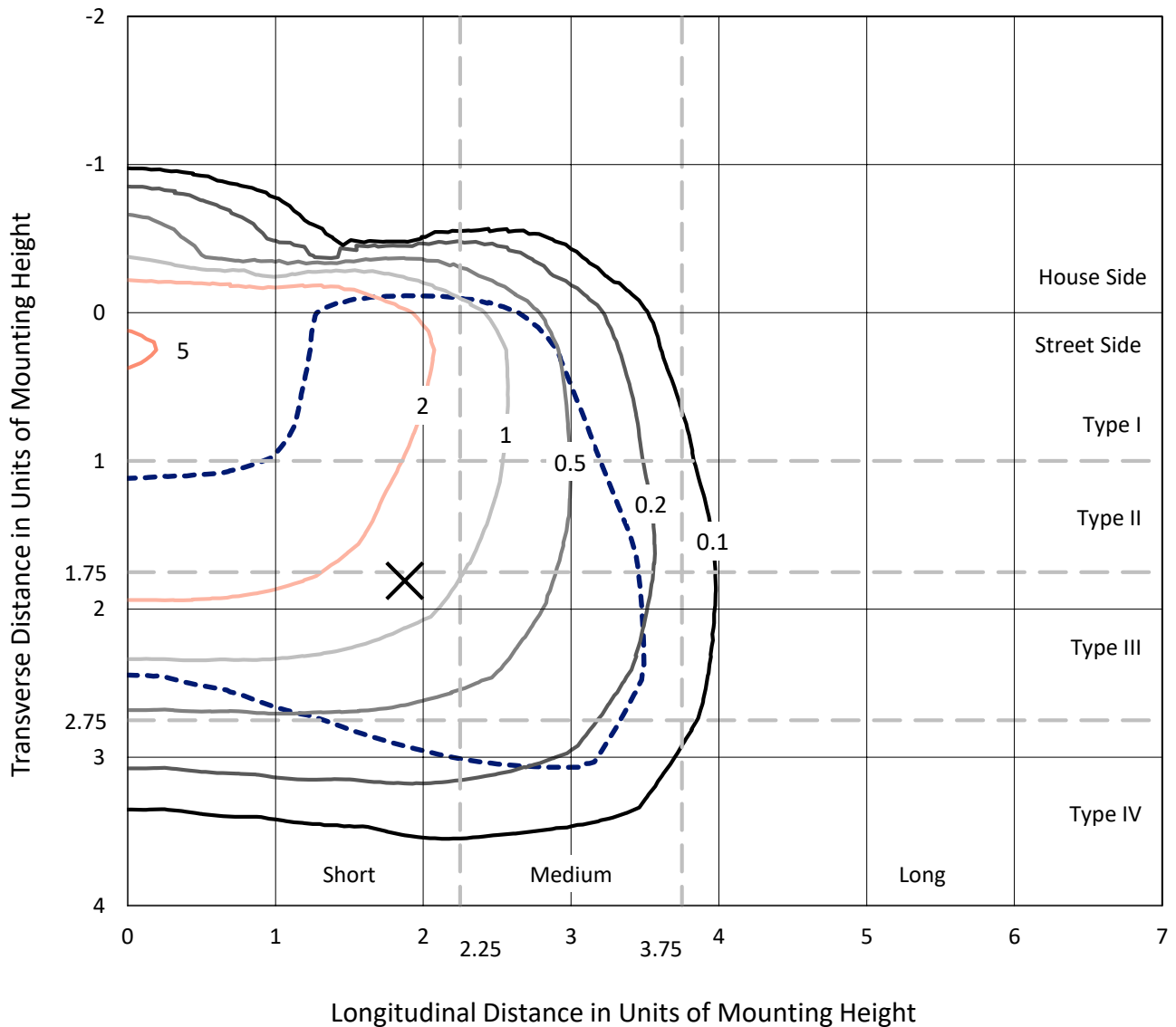




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### Iso-Footcandle Lines of Horizontal Illumination

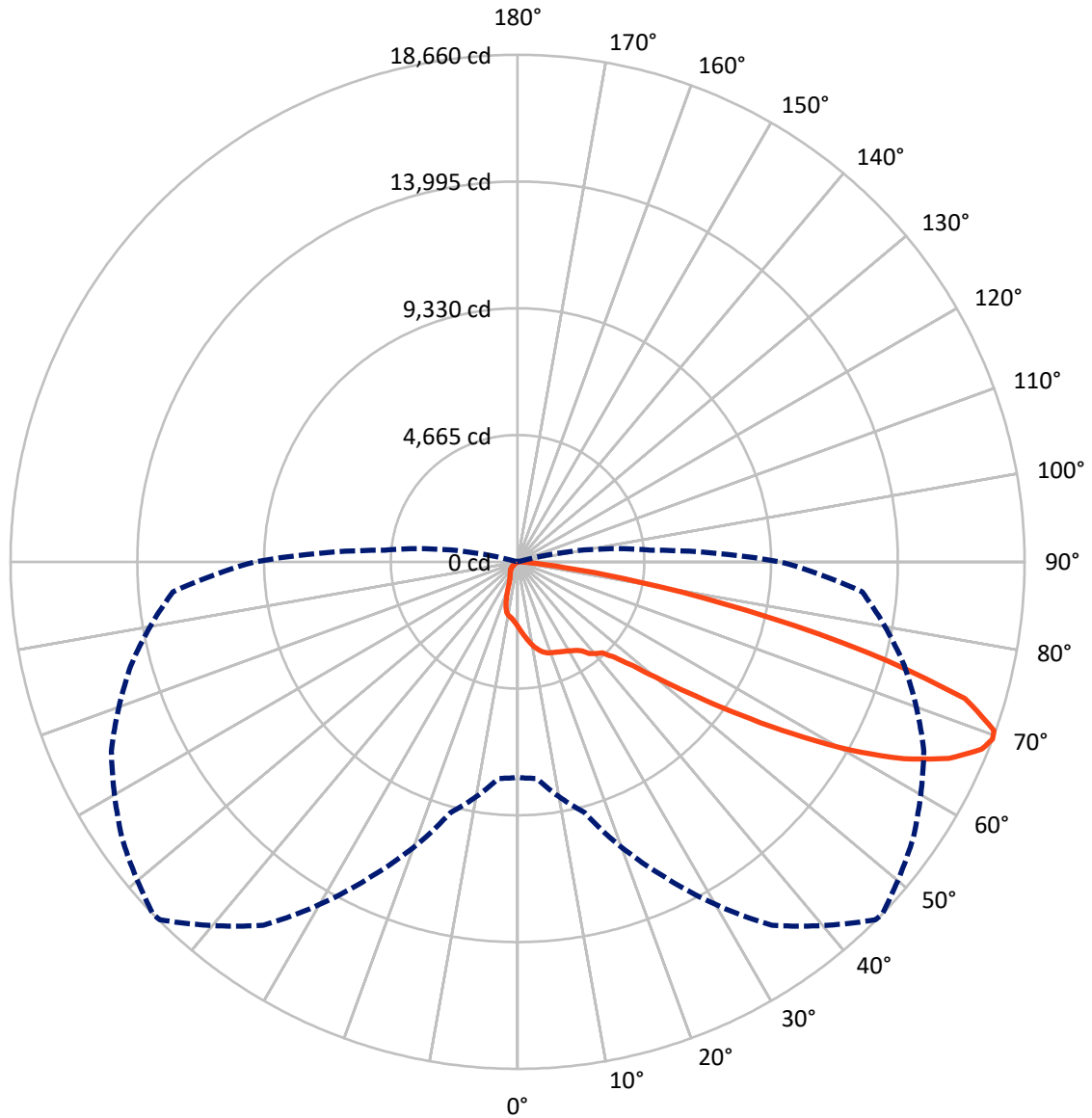
✕ Max cd  
 - - - 1/2 Max cd



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 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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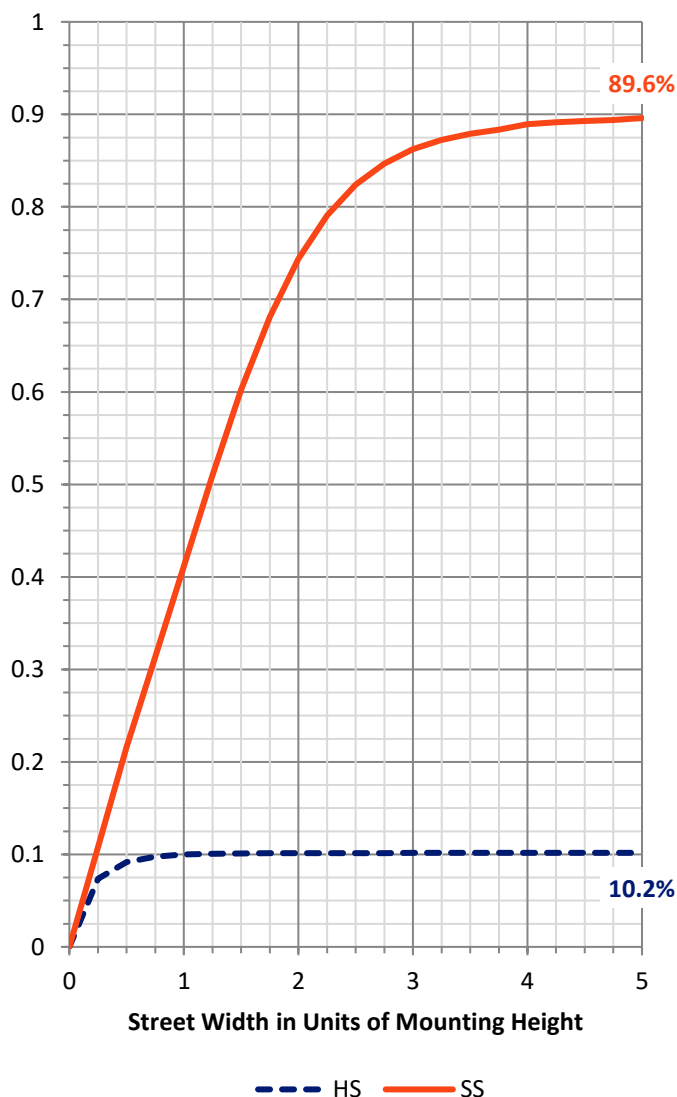
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2451.8	0.0	2451.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	21438.2	0.0	21438.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	23890.0	0.0	23890.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.3	1.0
10°-20°	722.8	3.0
20°-30°	1136.7	4.8
30°-40°	1630.1	6.8
40°-50°	2817.4	11.8
50°-60°	5566.0	23.3
60°-70°	7779.0	32.6
70°-80°	3758.1	15.7
80°-90°	241.6	1.0
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°	23890.0	100.0
0°-180°	23890.0	100.0

**Coefficient of Utilization**

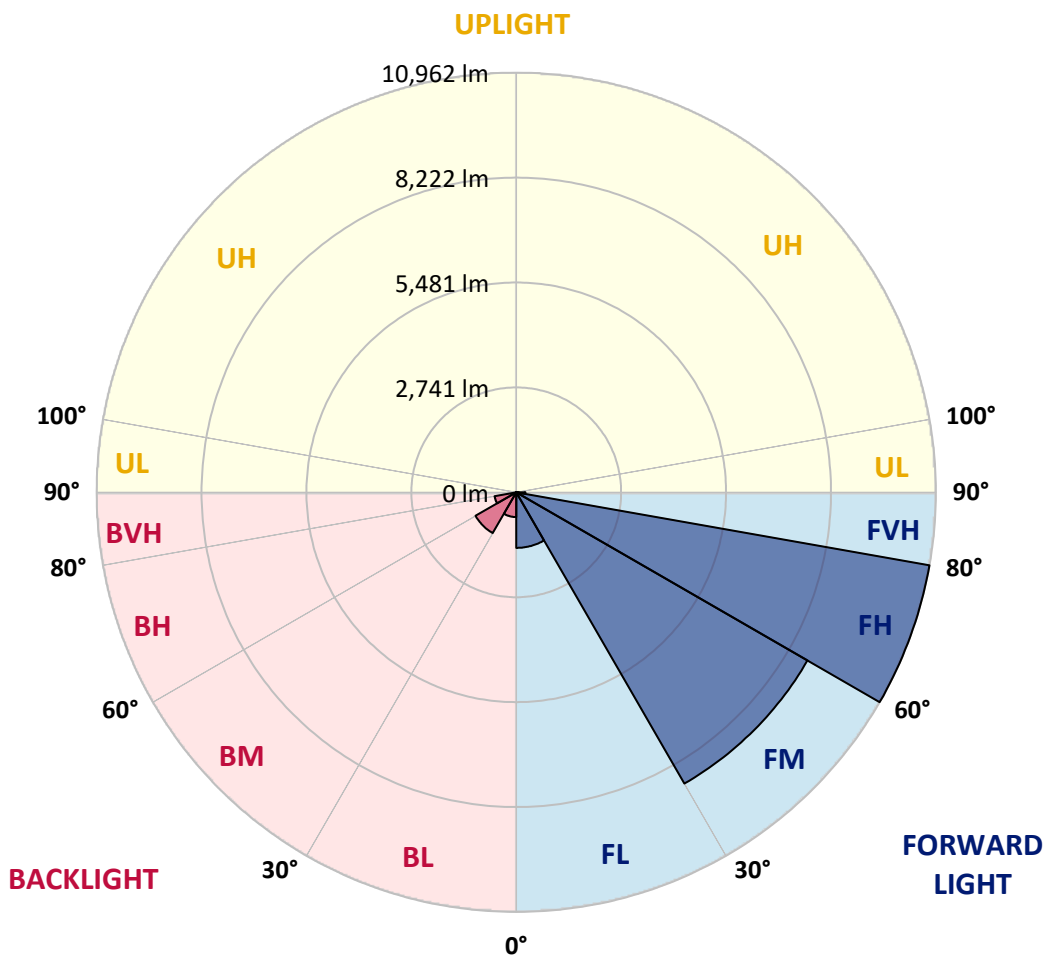


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.6	6.1			
FM (30°-60°)	8784.9	36.8			
FH (60°-80°)	10962.2	45.9			G4/12000
FVH (80°-90°)	239.5	1.0			G3/500
BL (0°-30°)	646.2	2.7	B2/1000		
BM (30°-60°)	1228.6	5.1	B2/2500		
BH (60°-80°)	574.9	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.0	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°	35°	45°	46°	55°	65°	75°	85°
0°	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7
2.5°	2659.2	2655.8	2640.1	2633.4	2595.3	2572.9	2563.9	2535.9	2495.6	2455.3	2410.5
5°	2961.6	2960.5	2931.3	2903.3	2831.7	2764.4	2752.1	2687.2	2596.4	2511.3	2426.2
7.5°	3270.7	3256.2	3227.1	3173.3	3069.1	2961.6	2951.5	2859.7	2730.8	2607.6	2485.5
10°	3532.8	3523.9	3485.8	3404.0	3281.9	3159.8	3147.5	3034.4	2888.8	2737.6	2581.9
12.5°	3736.7	3730.0	3679.6	3577.7	3447.7	3321.1	3304.3	3203.5	3047.8	2878.7	2695.0
15°	3861.0	3857.7	3796.1	3687.4	3559.7	3450.0	3435.4	3346.9	3202.4	3025.4	2818.2
17.5°	3890.2	3891.3	3827.4	3717.7	3612.4	3534.0	3522.8	3455.6	3334.6	3158.7	2941.4
20°	3825.2	3838.6	3781.5	3686.3	3621.3	3579.9	3570.9	3530.6	3428.7	3262.9	3040.0
22.5°	3733.3	3740.1	3700.9	3637.0	3610.1	3618.0	3613.5	3591.1	3504.8	3352.5	3137.4
25°	3677.3	3677.3	3653.8	3600.1	3618.0	3666.1	3667.3	3662.8	3594.5	3462.3	3256.2
27.5°	3675.1	3668.4	3641.5	3601.2	3650.5	3724.4	3728.9	3759.1	3716.5	3595.6	3404.0
30°	3764.7	3756.9	3699.7	3647.1	3709.8	3789.4	3800.6	3866.6	3845.4	3740.1	3568.7
32.5°	3974.2	3946.2	3819.6	3733.3	3780.4	3875.6	3890.2	3995.5	4029.1	3918.2	3727.7
35°	4260.9	4172.4	3989.9	3896.9	3901.4	4001.1	4014.5	4169.1	4268.8	4081.7	3851.0
37.5°	4656.3	4612.6	4315.8	4067.1	4087.3	4238.5	4277.7	4445.7	4417.7	4171.3	3991.0
40°	5523.3	5455.0	5139.1	4544.3	4265.4	4431.2	4443.5	4533.1	4535.4	4374.1	4282.2
42.5°	6703.9	6675.9	6343.2	5410.2	4616.0	4560.0	4582.4	4733.6	4902.7	4801.9	4797.5
45°	8011.1	7996.5	7643.7	6559.4	5325.0	4982.3	5010.3	5213.0	5536.7	5559.1	5701.4
47.5°	9062.9	9056.1	8853.4	7841.9	6410.4	5698.0	5707.0	5922.1	6491.1	6772.2	6999.6
50°	10021.7	10054.2	9894.0	9229.8	7889.0	6819.3	6798.0	6941.4	7855.4	8315.7	8598.0
52.5°	11354.6	11400.5	10951.4	10524.6	9440.3	8210.5	8193.7	8343.7	9495.2	9840.2	9890.6
55°	12531.9	12453.5	12098.4	11975.2	11332.2	9928.7	9924.2	10056.4	11081.3	11228.0	11321.0
57.5°	13051.6	13021.4	13192.7	13475.0	13313.7	11959.5	11949.4	11848.6	12500.5	12516.2	12801.8
60°	13379.8	13416.8	13942.1	14812.4	15214.5	14144.8	14079.9	13464.9	13855.8	13821.1	14126.9
62.5°	13133.4	13206.2	14151.6	15602.1	16637.1	16052.4	15960.5	14945.7	15014.0	14894.2	15178.7
65°	11825.1	11938.2	13487.3	15453.1	17342.8	17543.3	17450.3	16252.9	15933.7	15736.5	15578.6
67.5°	9601.6	9668.8	11286.3	14157.2	17024.6	18432.6	18413.6	17398.8	16628.1	15594.3	14368.9
69°	7934.9	8001.0	9558.0	12792.8	16324.6	18623.1	18660.0	17766.2	16496.0	14729.5	12731.2
70°	6720.7	6791.3	8241.8	11623.4	15512.5	18534.6	18600.7	17731.4	16117.4	13728.1	11294.1
72.5°	3525.0	3585.5	5074.1	8007.7	12646.1	17019.0	17219.5	16232.7	13662.1	9970.2	6678.1
75°	1107.8	1142.5	1981.5	4185.9	8658.5	13233.1	13279.0	12733.5	9701.3	5484.1	2781.2
77.5°	422.3	412.2	659.7	1542.4	4377.4	8332.5	8613.7	7957.3	5090.9	1938.9	641.8
80°	227.4	228.5	342.8	638.5	1872.8	4282.2	4519.7	3856.6	1809.0	604.9	147.9
82.5°	98.6	103.1	192.7	338.3	860.2	1579.4	1698.1	1413.6	691.1	406.6	54.9
85°	21.3	23.5	93.0	183.7	350.6	443.6	464.8	458.1	440.2	315.9	21.3
87.5°	0.0	0.0	41.4	66.1	88.5	100.8	88.5	115.4	243.1	212.8	11.2
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°	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7	2393.7
2.5°	2395.9	2375.8	2341.0	2303.0	2276.1	2248.1	2225.7	2215.6	2204.4	2196.5	2206.6
5°	2391.4	2352.2	2285.0	2220.1	2173.0	2134.9	2103.6	2091.3	2078.9	2070.0	2068.9
7.5°	2430.7	2375.8	2272.7	2177.5	2104.7	2053.2	2010.6	1992.7	1978.1	1971.4	1965.8
10°	2505.7	2435.1	2297.4	2173.0	2078.9	1991.6	1899.7	1829.2	1783.2	1761.9	1754.1
12.5°	2603.2	2514.7	2344.4	2196.5	2059.9	1891.9	1697.0	1529.0	1420.3	1384.5	1363.2
15°	2717.4	2607.6	2406.0	2226.8	1990.4	1683.5	1353.1	1133.6	1032.7	1012.6	990.2
17.5°	2827.2	2706.2	2479.9	2232.4	1838.1	1345.3	991.3	842.3	803.1	816.6	819.9
20°	2923.5	2803.7	2552.7	2183.1	1561.4	1009.2	767.3	730.3	744.9	770.6	775.1
22.5°	3021.0	2897.7	2620.0	2053.2	1207.5	766.2	691.1	700.1	714.6	740.4	744.9
25°	3139.7	3012.0	2682.7	1814.6	906.2	651.9	656.4	669.8	684.4	707.9	710.2
27.5°	3276.3	3156.5	2724.1	1504.3	672.1	599.3	613.8	634.0	648.5	670.9	675.4
30°	3457.8	3346.9	2737.6	1182.8	563.4	552.2	558.9	583.6	604.9	625.0	628.4
32.5°	3628.1	3535.1	2692.8	892.7	522.0	508.5	508.5	523.1	547.7	566.8	571.3
35°	3784.9	3724.4	2549.4	653.0	490.6	468.2	457.0	457.0	472.7	488.4	492.9
37.5°	3992.1	3989.9	2317.5	520.9	460.4	434.6	411.1	393.2	387.6	390.9	393.2
40°	4347.2	4350.5	2015.1	467.1	434.6	399.9	364.0	331.6	301.3	291.2	290.1
42.5°	4901.6	4851.2	1698.1	441.3	412.2	364.0	310.3	266.6	219.5	205.0	203.9
45°	5782.0	5483.0	1362.1	417.8	388.7	323.7	256.5	197.1	159.1	147.9	147.9
47.5°	7064.6	6313.0	1055.1	392.0	357.3	277.8	193.8	142.3	116.5	110.9	112.0
50°	8390.8	7126.2	808.7	359.6	319.2	229.6	143.4	103.1	88.5	88.5	89.6
52.5°	9566.9	7722.1	630.6	324.8	272.2	180.3	108.7	80.6	73.9	72.8	73.9
55°	10668.0	8106.3	482.8	284.5	216.2	134.4	82.9	66.1	61.6	59.4	58.2
57.5°	11729.9	8296.7	361.8	229.6	156.8	97.5	66.1	56.0	51.5	48.2	47.0
60°	12436.7	8142.1	248.7	169.1	108.7	70.6	54.9	48.2	42.6	39.2	38.1
62.5°	12835.4	7719.8	160.2	122.1	77.3	52.6	43.7	40.3	32.5	29.1	29.1
65°	12674.1	7023.1	112.0	87.4	56.0	39.2	32.5	32.5	23.5	19.0	17.9
67.5°	11231.4	5933.3	85.1	65.0	40.3	29.1	24.6	28.0	14.6	9.0	9.0
69°	9663.2	4917.3	72.8	53.8	33.6	23.5	21.3	25.8	10.1	6.7	5.6
70°	8398.6	4241.9	66.1	47.0	28.0	20.2	19.0	24.6	10.1	5.6	4.5
72.5°	5024.8	2365.7	50.4	33.6	17.9	15.7	15.7	28.0	10.1	5.6	4.5
75°	2030.8	833.4	37.0	23.5	13.4	13.4	19.0	35.8	9.0	4.5	3.4
77.5°	460.4	182.6	21.3	14.6	9.0	13.4	22.4	28.0	5.6	2.2	0.0
80°	112.0	44.8	13.4	9.0	5.6	10.1	16.8	15.7	1.1	0.0	0.0
82.5°	37.0	15.7	5.6	4.5	1.1	3.4	7.8	4.5	0.0	0.0	0.0
85°	15.7	9.0	2.2	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	10.1	3.4	0.0	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)