

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: P191993

Luminaire Tested: **GAN-AF-05-LED-U-SL4-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL4-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15909 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 162
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: 28.75 FT

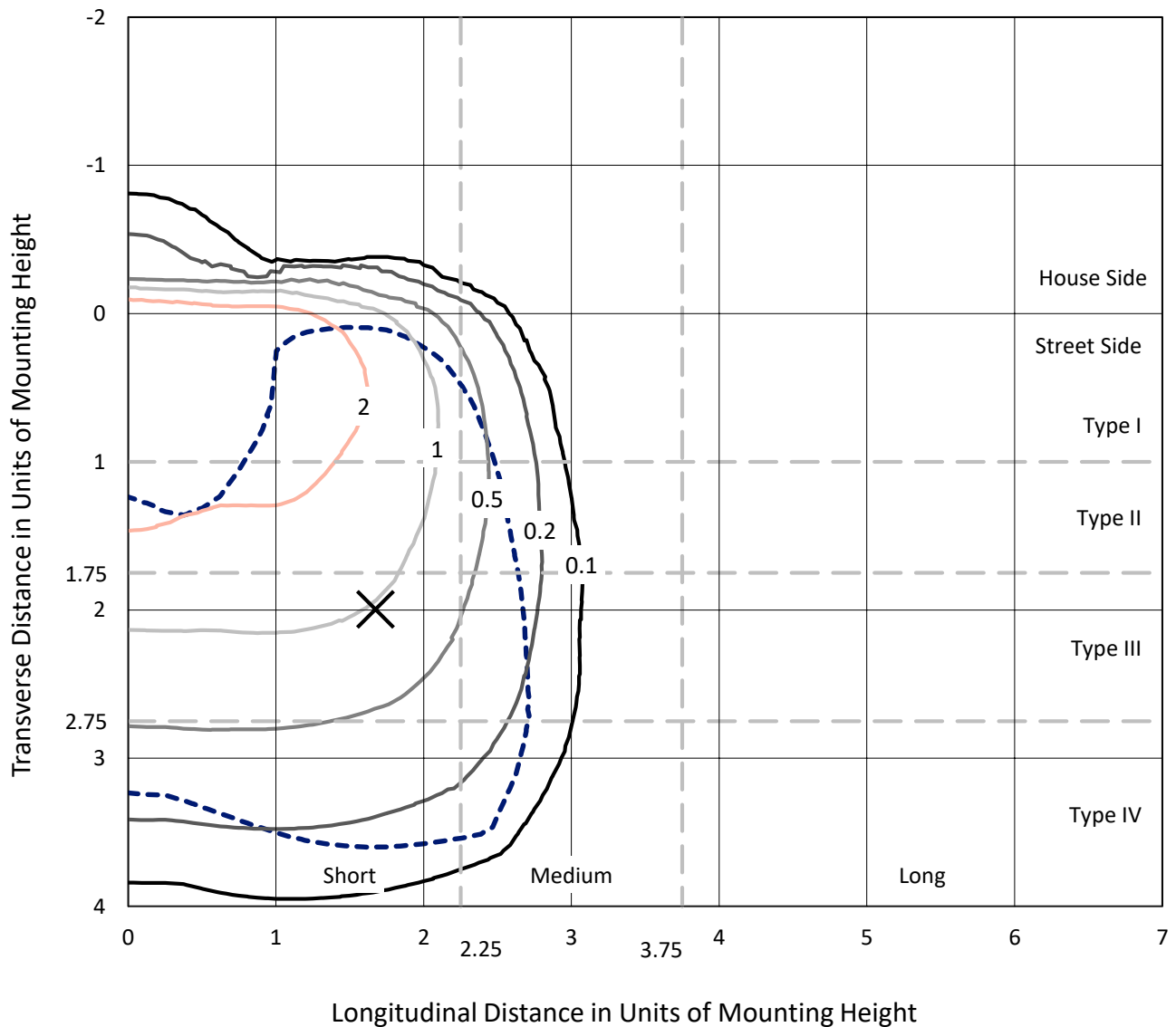


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

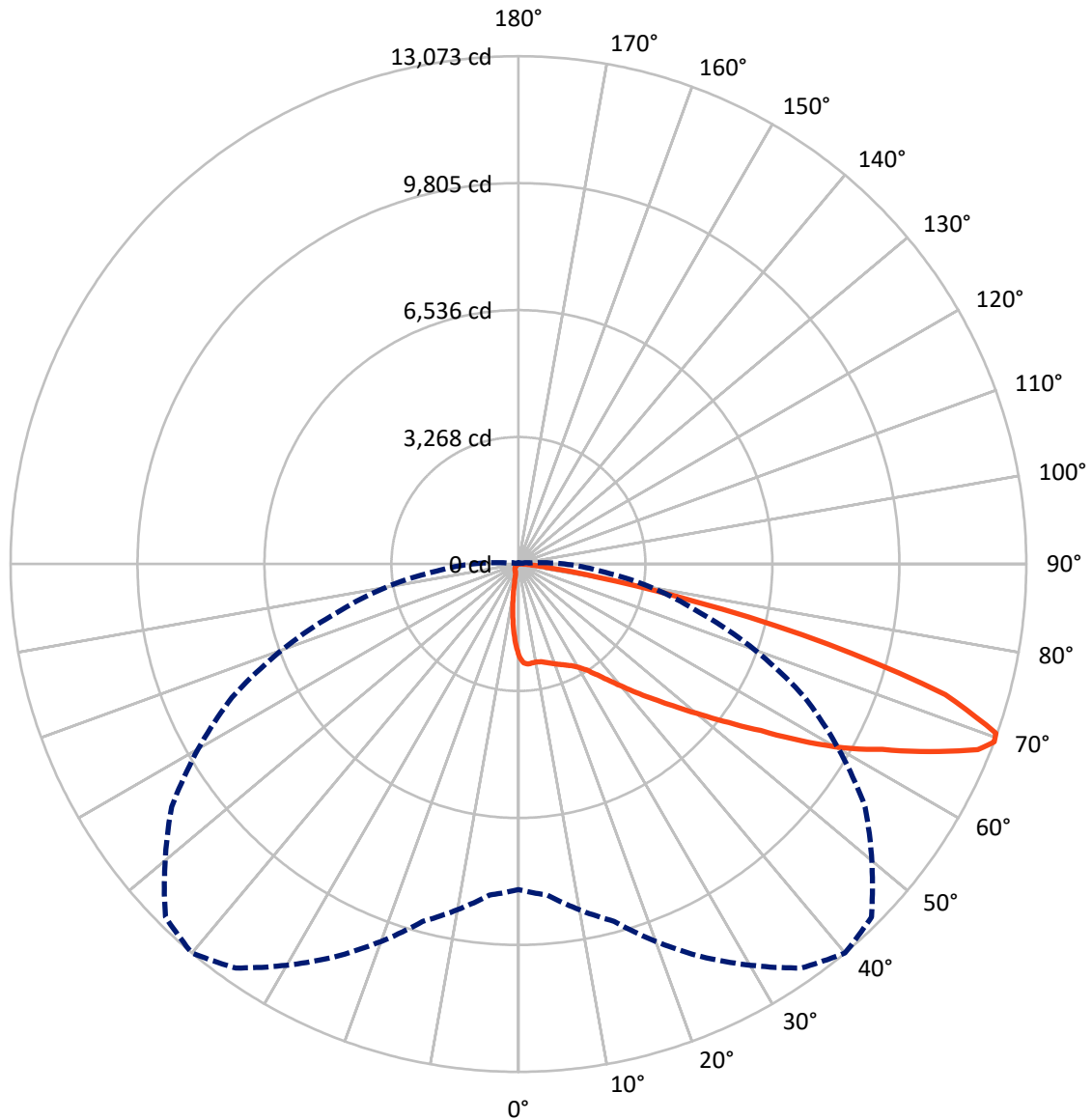


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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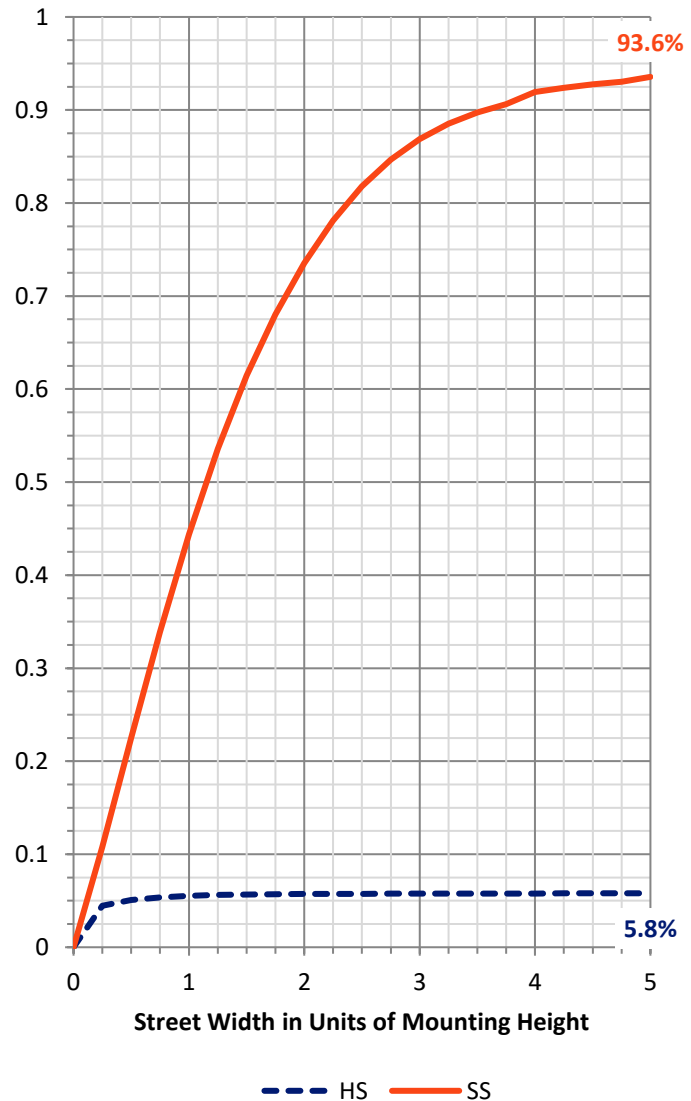
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.8	0.0	930.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	14978.2	0.0	14978.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	15909.0	0.0	15909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	1.2
10°-20°	473.9	3.0
20°-30°	798.3	5.0
30°-40°	1306.8	8.2
40°-50°	2262.6	14.2
50°-60°	3563.9	22.4
60°-70°	4654.3	29.3
70°-80°	2397.2	15.1
80°-90°	259.3	1.6
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°	15909.0	100.0
0°-180°	15909.0	100.0

Coefficient of Utilization



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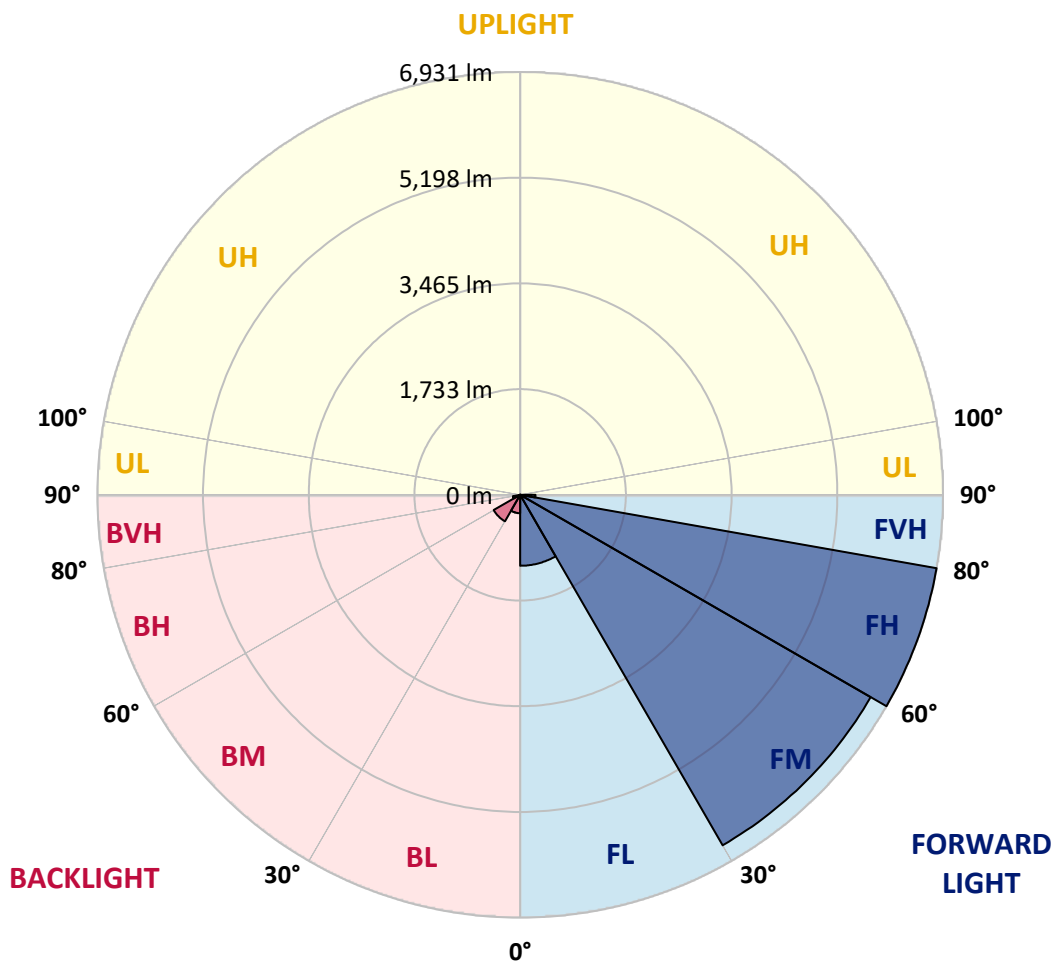
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1163.4	7.3			
FM	(30°-60°)	6633.1	41.7			
FH	(60°-80°)	6930.6	43.6			G3/7500
FVH	(80°-90°)	251.2	1.6			G3/500
BL	(0°-30°)	301.5	1.9	B1/500		
BM	(30°-60°)	500.3	3.1	B1/1000		
BH	(60°-80°)	120.9	0.8	B1/500		G1/500
BVH	(80°-90°)	8.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9
2.5°	2609.8	2595.6	2587.1	2575.7	2561.5	2549.2	2544.5	2509.5	2476.3	2430.9	2378.8
5°	2658.1	2653.4	2638.2	2623.1	2606.1	2587.1	2576.7	2535.0	2487.7	2421.4	2330.5
7.5°	2662.9	2657.2	2638.2	2617.4	2593.7	2571.0	2553.0	2511.4	2467.8	2400.6	2289.8
10°	2655.3	2648.7	2634.5	2611.7	2582.4	2560.6	2542.6	2502.8	2465.9	2405.3	2282.2
12.5°	2646.8	2640.1	2633.5	2622.2	2596.6	2581.4	2566.3	2528.4	2495.3	2444.1	2309.7
15°	2655.3	2651.5	2659.1	2654.3	2640.1	2626.9	2611.7	2577.6	2547.3	2504.7	2359.8
17.5°	2691.3	2691.3	2715.0	2717.8	2704.5	2685.6	2663.8	2629.7	2604.2	2568.2	2419.5
20°	2775.6	2772.7	2803.0	2808.7	2776.5	2747.2	2715.0	2673.3	2653.4	2630.7	2478.2
22.5°	2920.4	2907.2	2925.2	2919.5	2856.1	2810.6	2770.8	2719.7	2709.3	2698.9	2543.6
25°	3108.9	3101.3	3113.6	3057.8	2946.0	2884.5	2837.1	2779.3	2779.3	2789.8	2617.4
27.5°	3382.6	3354.2	3312.5	3214.0	3046.4	2967.8	2916.7	2855.1	2871.2	2910.0	2715.0
30°	3662.9	3631.6	3536.0	3384.5	3168.6	3086.2	3026.5	2962.1	3000.0	3071.0	2845.6
32.5°	3939.4	3904.3	3768.9	3577.6	3343.7	3261.4	3203.6	3132.6	3196.0	3315.3	3036.9
35°	4207.4	4176.1	4019.9	3794.5	3576.7	3508.5	3455.5	3393.9	3475.4	3642.0	3306.8
37.5°	4508.5	4474.4	4284.1	4039.8	3859.8	3810.6	3771.8	3710.2	3852.3	4096.6	3682.8
40°	4878.8	4821.0	4564.4	4321.0	4187.5	4163.8	4137.3	4128.8	4349.4	4687.5	4183.7
42.5°	5303.0	5208.3	4857.9	4617.4	4547.3	4564.4	4557.8	4595.6	4971.6	5422.3	4793.5
45°	5727.3	5605.1	5184.6	4933.7	4943.2	5002.8	5039.8	5191.3	5750.9	6265.1	5449.8
47.5°	6087.1	5966.8	5498.1	5275.6	5389.2	5506.6	5607.0	5893.9	6552.1	7094.7	5960.2
50°	6394.9	6281.2	5830.5	5651.5	5907.2	6096.6	6259.4	6684.6	7413.8	7726.3	6318.2
52.5°	6646.8	6571.0	6175.2	6082.4	6499.0	6776.5	7015.1	7524.6	8177.1	8239.6	6596.6
55°	6892.0	6838.0	6545.4	6594.7	7194.1	7571.9	7874.0	8415.7	8834.3	8667.6	6863.6
57.5°	7174.2	7125.0	6967.8	7244.3	8107.9	8583.3	8912.9	9205.5	9412.8	9105.1	7115.5
60°	7462.1	7433.7	7437.5	7965.9	9157.2	9613.6	9795.4	9871.2	9981.0	9517.0	7129.7
62.5°	7736.7	7790.7	7974.4	8768.9	10161.9	10512.3	10604.1	10678.9	10550.2	9582.4	6587.1
65°	8201.7	8289.7	8728.2	9843.7	11267.0	11642.0	11736.7	11480.1	10640.1	8737.7	5357.9
67.5°	8429.0	8589.9	9372.1	10845.6	12339.0	12755.6	12720.6	11532.2	9548.3	6662.9	3438.4
69°	8381.6	8553.0	9520.8	11152.4	12695.0	13072.9	12850.3	10894.9	8134.4	4826.7	2110.8
70°	8194.1	8367.4	9444.1	11141.1	12740.5	13039.7	12609.8	10107.9	6877.8	3529.3	1320.1
72.5°	6842.8	6992.4	8384.4	10070.0	11736.7	11493.3	10549.2	7002.8	3351.3	961.2	297.3
75°	4212.1	4295.4	6016.1	7586.2	8864.6	8239.6	7028.4	3483.9	999.0	271.8	164.8
77.5°	2225.4	2263.3	3293.6	4471.6	5619.3	4649.6	3602.3	1358.9	460.2	170.5	119.3
80°	1315.3	1343.7	1773.7	2044.5	2431.8	2031.2	1440.3	834.3	329.5	107.0	106.1
82.5°	752.8	770.8	1286.0	1136.4	958.3	818.2	716.9	790.7	197.9	72.0	109.8
85°	276.5	280.3	723.5	864.6	570.1	339.0	356.1	655.3	53.0	45.5	86.2
87.5°	128.8	125.9	372.2	529.4	333.3	215.0	277.5	143.9	20.8	29.4	23.7
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°	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9	2376.9
2.5°	2348.5	2313.4	2250.0	2184.7	2118.4	2067.2	2017.0	1977.3	1964.0	1939.4	1941.3
5°	2276.5	2212.1	2079.5	1945.1	1804.9	1689.4	1580.5	1492.4	1449.8	1406.2	1406.2
7.5°	2214.0	2120.3	1912.9	1694.1	1467.8	1277.5	1106.1	977.3	906.2	849.4	848.5
10°	2190.3	2063.4	1773.7	1460.2	1144.9	885.4	681.8	551.1	483.9	440.3	438.4
12.5°	2200.8	2043.6	1666.7	1244.3	848.5	569.1	394.9	310.6	282.2	268.9	268.9
15°	2231.1	2037.9	1559.7	1033.1	599.4	356.1	262.3	239.6	237.7	237.7	237.7
17.5°	2268.0	2039.8	1449.8	827.6	408.1	254.7	226.3	223.5	225.4	225.4	225.4
20°	2305.9	2040.7	1331.4	637.3	287.9	221.6	213.1	212.1	214.0	214.0	215.0
22.5°	2352.3	2045.4	1213.1	476.3	237.7	209.3	202.7	202.7	203.6	203.6	202.7
25°	2405.3	2054.9	1090.0	353.2	216.9	200.8	195.1	194.1	195.1	194.1	193.2
27.5°	2471.6	2068.2	952.6	276.5	207.4	192.2	187.5	187.5	186.6	185.6	184.7
30°	2554.9	2083.3	798.3	234.8	197.9	184.7	179.9	179.0	178.0	176.1	176.1
32.5°	2681.8	2116.5	645.8	213.1	187.5	174.2	170.5	170.5	168.6	166.7	165.7
35°	2876.9	2181.8	509.5	199.8	176.1	162.9	158.1	158.1	156.2	155.3	154.4
37.5°	3146.8	2281.2	395.8	187.5	164.8	150.6	145.8	144.9	143.0	141.1	140.2
40°	3505.7	2404.3	311.6	176.1	153.4	138.3	134.5	132.6	128.8	125.9	125.9
42.5°	3956.4	2544.5	252.8	163.8	140.2	126.9	124.1	121.2	114.6	111.7	110.8
45°	4428.0	2670.4	214.0	149.6	126.9	115.5	113.6	108.9	100.4	97.5	97.5
47.5°	4768.0	2699.8	188.4	136.4	114.6	103.2	102.3	93.7	86.2	84.3	83.3
50°	4980.1	2642.0	167.6	123.1	103.2	91.9	89.0	78.6	73.9	72.0	71.0
52.5°	5123.1	2538.8	150.6	111.7	92.8	81.4	74.8	67.2	63.4	61.6	61.6
55°	5237.7	2393.0	133.5	101.3	84.3	72.9	63.4	57.8	54.0	52.1	52.1
57.5°	5269.9	2195.1	116.5	92.8	75.8	64.4	54.0	50.2	45.5	44.5	44.5
60°	5036.0	1838.1	103.2	82.4	68.2	55.9	47.3	42.6	37.9	36.9	36.0
62.5°	4419.5	1422.3	90.9	72.9	59.7	48.3	40.7	35.0	31.2	31.2	31.2
65°	3371.2	953.6	79.5	63.4	52.1	40.7	35.0	28.4	26.5	26.5	27.5
67.5°	2018.0	518.9	68.2	54.0	44.5	34.1	29.4	24.6	23.7	24.6	24.6
69°	1182.8	304.9	61.6	48.3	38.8	30.3	25.6	21.8	23.7	24.6	24.6
70°	730.1	205.5	56.8	43.6	35.0	27.5	23.7	20.8	22.7	23.7	23.7
72.5°	203.6	106.1	45.5	34.1	28.4	22.7	18.9	18.9	21.8	22.7	22.7
75°	132.6	78.6	35.0	25.6	21.8	18.0	16.1	18.0	20.8	21.8	21.8
77.5°	109.8	64.4	28.4	20.8	18.0	17.0	15.2	16.1	18.9	19.9	19.9
80°	100.4	45.5	22.7	18.9	16.1	15.2	14.2	13.3	17.0	18.0	18.0
82.5°	95.6	36.0	19.9	17.0	15.2	13.3	12.3	13.3	15.2	16.1	17.0
85°	59.7	23.7	18.0	16.1	13.3	12.3	12.3	12.3	14.2	15.2	15.2
87.5°	21.8	18.9	16.1	13.3	11.4	11.4	11.4	11.4	12.3	14.2	14.2
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)