

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: P193653

Luminaire Tested: **GAN-AF-05-LED-U-SL3-8030-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-8030-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13664 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-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

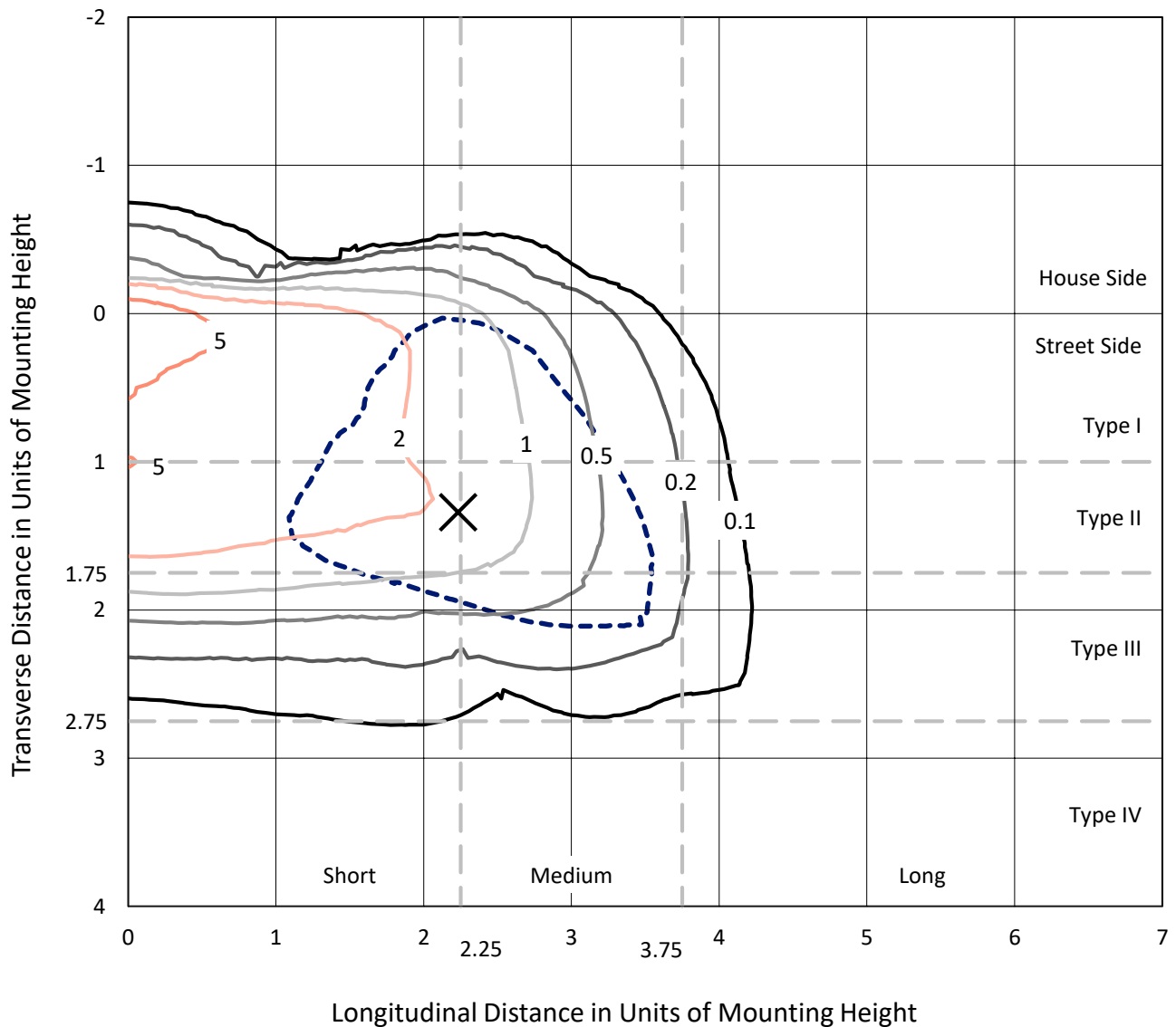


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

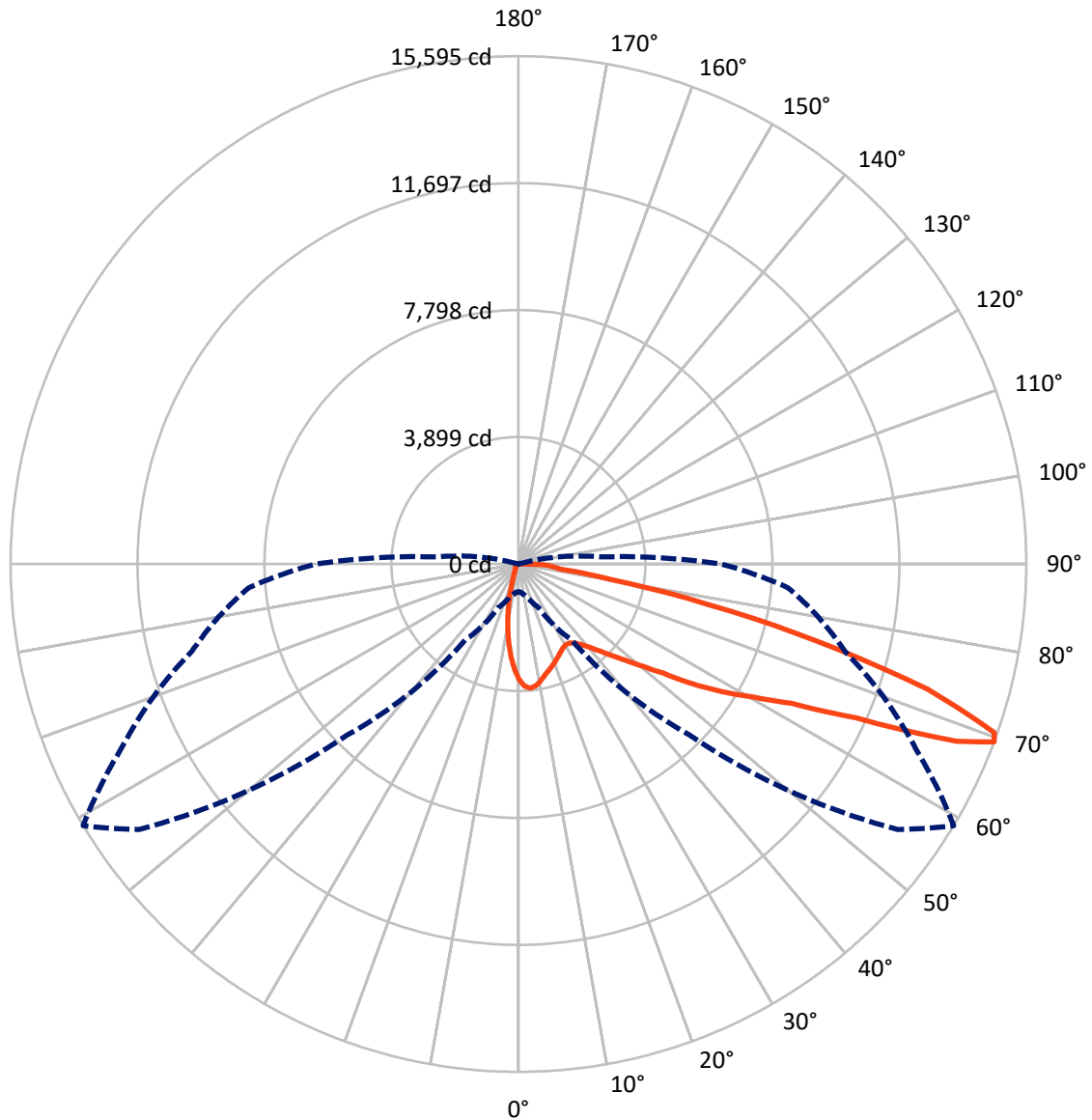


Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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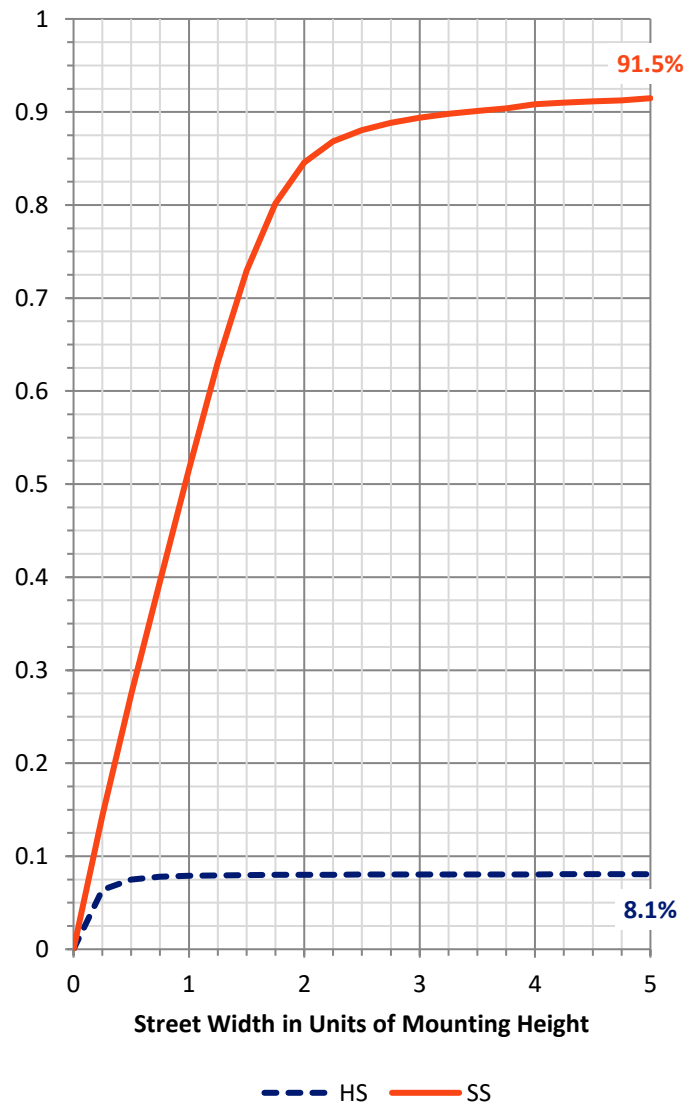
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1112.8	0.0	1112.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	12551.2	0.0	12551.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	13664.0	0.0	13664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.7	2.1
10°-20°	596.5	4.4
20°-30°	802.7	5.9
30°-40°	1165.4	8.5
40°-50°	1940.5	14.2
50°-60°	3027.2	22.2
60°-70°	3745.9	27.4
70°-80°	1898.4	13.9
80°-90°	198.6	1.5
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°	13664.0	100.0
0°-180°	13664.0	100.0

Coefficient of Utilization



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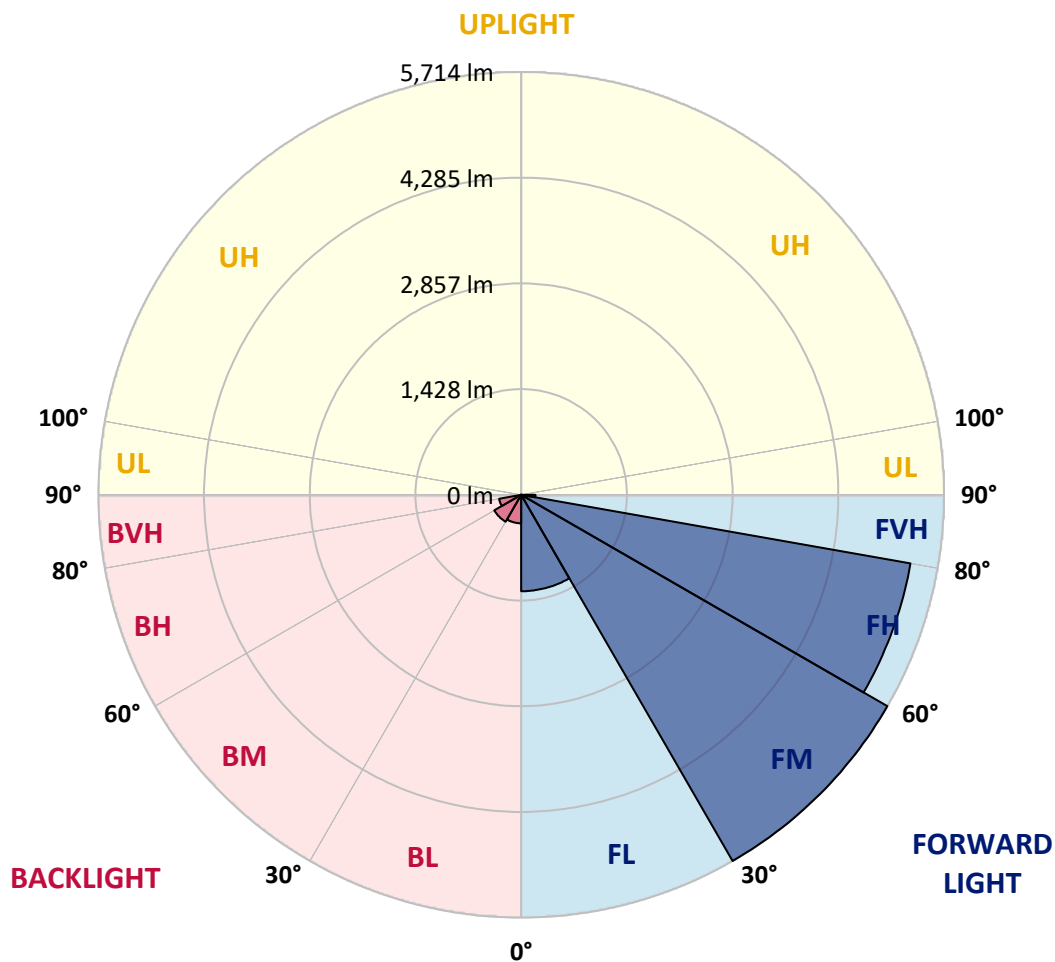
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1302.7	9.5			
FM	(30°-60°)	5713.9	41.8			
FH	(60°-80°)	5342.1	39.1			G3/7500
FVH	(80°-90°)	192.5	1.4			G2/225
BL	(0°-30°)	385.2	2.8	B1/500		
BM	(30°-60°)	419.3	3.1	B1/1000		
BH	(60°-80°)	302.2	2.2	B1/500		G1/500
BVH	(80°-90°)	6.1	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6
2.5°	3898.1	3896.5	3879.5	3871.8	3857.9	3828.5	3782.9	3759.0	3720.4	3653.1	3562.7
5°	3862.5	3881.1	3891.1	3891.9	3901.9	3891.1	3850.2	3830.1	3776.8	3668.6	3506.3
7.5°	3621.5	3628.4	3657.0	3681.7	3729.6	3775.2	3789.9	3781.4	3749.7	3633.8	3418.2
10°	3363.4	3370.3	3404.3	3436.8	3501.7	3572.0	3646.2	3661.6	3674.8	3584.4	3333.3
12.5°	3140.9	3147.8	3182.6	3225.1	3300.8	3387.3	3502.5	3528.0	3585.9	3537.2	3265.3
15°	2949.2	2952.3	2986.3	3038.9	3129.3	3240.5	3371.1	3412.1	3500.9	3504.0	3205.8
17.5°	2786.2	2793.9	2814.8	2865.0	2963.9	3101.5	3253.7	3312.4	3416.7	3476.2	3147.8
20°	2686.5	2694.3	2693.5	2721.3	2810.2	2957.0	3136.2	3206.5	3333.3	3447.6	3096.0
22.5°	2667.2	2667.2	2647.1	2643.3	2695.8	2818.7	3014.1	3099.9	3258.3	3435.2	3059.7
25°	2736.0	2732.9	2682.7	2641.7	2644.0	2717.4	2895.9	2997.9	3194.9	3443.7	3040.4
27.5°	2881.2	2877.4	2814.0	2736.0	2673.4	2672.6	2806.3	2916.0	3144.7	3483.9	3048.1
30°	3082.1	3080.6	3011.8	2913.7	2800.1	2695.8	2775.4	2875.1	3112.3	3556.6	3065.9
32.5°	3301.6	3299.3	3247.5	3144.0	3000.2	2800.1	2807.8	2891.3	3121.5	3653.1	3109.2
35°	3534.1	3530.3	3507.9	3417.5	3259.1	2992.5	2914.5	2979.4	3180.3	3797.6	3194.2
37.5°	3786.0	3789.9	3806.1	3719.6	3553.5	3262.2	3093.0	3137.0	3298.5	3993.9	3332.5
40°	4157.7	4156.9	4162.3	4048.7	3888.8	3592.1	3342.5	3356.4	3496.3	4254.3	3542.6
42.5°	4832.2	4785.1	4642.1	4410.3	4249.6	3969.2	3657.0	3642.3	3738.1	4576.5	3837.0
45°	5738.5	5638.1	5267.2	4822.9	4617.4	4394.1	4044.1	3997.0	4058.0	4963.6	4200.2
47.5°	6518.2	6413.8	5889.2	5252.5	5007.6	4797.4	4497.6	4412.7	4432.7	5397.0	4660.7
50°	6783.2	6732.2	6274.0	5626.5	5385.4	5305.1	5023.8	4920.3	4891.7	5898.5	5194.6
52.5°	6691.2	6687.4	6382.2	5869.1	5731.6	5830.5	5686.0	5566.2	5461.2	6427.0	5737.8
55°	6543.7	6563.0	6426.2	6081.6	6077.0	6310.3	6591.6	6491.9	6187.5	7001.1	6206.0
57.5°	6136.5	6219.1	6401.5	6483.4	6673.5	6912.2	7345.7	7404.4	7044.3	7440.7	6594.6
60°	4979.0	5160.6	5757.1	6541.3	7442.3	8037.2	8255.9	8306.1	7747.5	7806.2	7119.3
62.5°	3534.1	3719.6	4476.0	5802.7	7453.8	9515.3	9611.9	9414.9	8521.7	8347.8	8024.1
65°	1876.0	2019.0	2637.1	4188.6	6462.5	9858.4	11983.2	11396.0	9887.7	9413.3	9193.1
67.5°	959.6	1002.9	1248.6	2049.9	4442.8	8756.5	14108.8	14522.1	12242.0	10470.3	9136.7
69°	849.2	874.7	1037.7	1482.0	2844.9	7416.8	14212.3	15595.4	13474.4	10382.2	8303.0
70°	822.1	844.5	992.9	1341.3	2223.7	6219.9	13815.9	15501.1	13789.6	10046.9	7680.2
72.5°	697.7	717.0	883.9	1185.3	1807.2	3087.5	11222.9	13135.2	12374.1	8369.4	5559.3
75°	466.7	530.0	848.4	1111.1	1681.3	1753.9	7399.0	9492.1	8817.6	5645.0	2895.9
77.5°	112.0	120.5	239.5	883.9	1537.6	1543.8	3805.3	5900.8	4812.9	2012.0	684.6
80°	60.3	57.9	67.2	175.4	1431.7	1448.7	1713.0	2864.2	1718.4	333.8	225.6
82.5°	42.5	40.2	43.3	73.4	450.5	1319.7	1239.3	1296.5	712.4	128.3	101.2
85°	15.5	14.7	24.0	66.4	141.4	758.8	1273.3	1069.4	577.2	58.7	74.2
87.5°	5.4	4.6	9.3	36.3	43.3	323.0	785.8	808.2	227.2	35.5	34.8
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°	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6	3556.6
2.5°	3524.9	3477.0	3388.9	3298.5	3215.0	3114.6	3064.4	3014.9	2994.1	2986.3	2950.0
5°	3422.9	3341.8	3154.8	2967.0	2793.9	2610.0	2488.7	2391.4	2334.2	2306.4	2262.3
7.5°	3292.3	3159.4	2875.8	2586.1	2316.4	2050.6	1853.6	1702.2	1597.9	1547.6	1502.0
10°	3165.6	2988.6	2585.3	2190.5	1824.2	1471.9	1199.9	1002.9	877.0	819.0	781.9
12.5°	3052.0	2822.5	2304.8	1804.9	1345.2	932.6	656.0	499.1	421.1	394.1	380.9
15°	2950.8	2669.5	2039.8	1438.7	911.0	533.1	358.5	305.2	292.8	292.8	291.3
17.5°	2855.0	2519.6	1784.1	1094.9	571.8	326.1	272.7	265.8	265.8	268.9	268.9
20°	2763.0	2376.7	1536.8	785.8	360.1	258.8	246.5	244.9	246.5	250.3	250.3
22.5°	2684.2	2246.9	1305.8	539.3	267.3	233.3	227.2	224.8	225.6	227.9	229.5
25°	2625.5	2137.2	1087.9	365.5	230.3	212.5	205.5	201.7	198.6	198.6	200.1
27.5°	2588.4	2044.5	877.0	265.8	207.1	193.2	182.3	176.2	169.2	165.3	166.9
30°	2561.4	1956.4	679.2	217.1	185.4	171.5	157.6	147.6	137.5	132.9	134.4
32.5°	2551.3	1885.3	507.6	191.6	166.1	150.7	133.7	120.5	109.7	105.9	106.6
35°	2578.4	1828.9	371.6	173.1	150.7	131.4	112.0	97.4	88.9	86.5	87.3
37.5°	2649.4	1798.8	278.2	157.6	136.8	115.1	93.5	79.6	74.2	74.2	74.9
40°	2783.9	1798.0	223.3	146.8	124.4	99.7	77.3	67.2	64.1	65.7	66.4
42.5°	2980.1	1838.9	194.7	136.8	113.6	85.0	64.1	57.2	56.4	57.9	58.7
45°	3248.3	1913.9	179.3	128.3	102.0	71.1	54.1	49.5	49.5	51.8	52.5
47.5°	3576.6	2023.6	166.1	119.8	90.4	59.5	46.4	43.3	44.0	46.4	47.1
50°	3972.2	2161.9	153.0	110.5	81.9	49.5	40.2	37.9	38.6	41.7	42.5
52.5°	4422.7	2348.1	142.2	102.0	71.1	41.0	34.0	32.5	34.0	37.1	37.9
55°	4809.0	2515.0	129.0	95.0	57.2	34.0	27.8	27.8	29.4	33.2	34.0
57.5°	5180.7	2689.6	117.4	81.9	44.8	27.0	23.2	24.0	26.3	30.1	30.9
60°	5726.2	2985.6	103.5	68.8	34.0	21.6	19.3	20.1	23.2	27.0	27.8
62.5°	6652.6	3436.0	89.6	57.2	26.3	17.0	15.5	17.0	20.9	25.5	26.3
65°	7488.6	3619.1	73.4	47.9	20.1	13.1	13.1	15.5	20.1	24.7	25.5
67.5°	7022.7	3046.6	57.2	37.9	15.5	10.0	10.8	14.7	19.3	24.7	25.5
69°	6210.6	2491.1	48.7	30.1	13.1	9.3	10.0	14.7	19.3	24.0	24.7
70°	5577.8	2103.2	43.3	25.5	11.6	9.3	10.0	13.9	19.3	24.0	24.7
72.5°	3735.8	1135.8	34.8	18.5	10.8	8.5	8.5	13.9	18.5	23.2	24.0
75°	1605.6	313.7	27.8	13.1	9.3	7.7	7.7	13.1	17.8	22.4	24.0
77.5°	293.6	79.6	22.4	11.6	9.3	7.7	7.0	12.4	17.0	21.6	22.4
80°	116.7	39.4	17.8	10.0	8.5	7.0	6.2	11.6	16.2	20.9	21.6
82.5°	70.3	22.4	14.7	9.3	8.5	6.2	5.4	10.0	15.5	20.1	20.9
85°	57.2	15.5	11.6	9.3	7.7	6.2	4.6	9.3	13.9	19.3	20.1
87.5°	27.8	10.8	10.8	8.5	7.7	6.2	4.6	8.5	13.1	18.5	19.3
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)