

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: P322170

Luminaire Tested: **GAN-SA6C-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25780 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 333
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

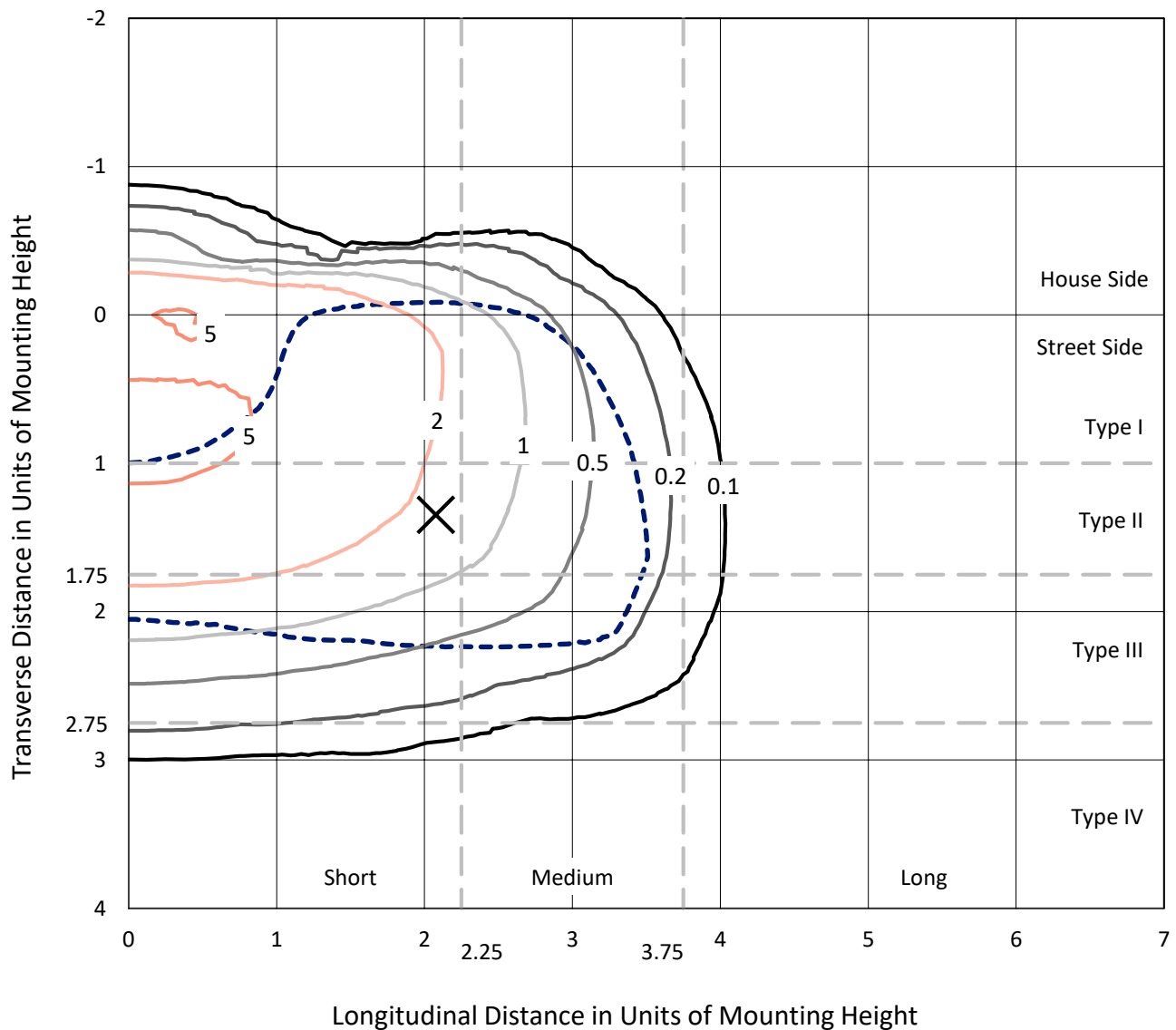


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Iso-Footcandle Lines of Horizontal Illumination

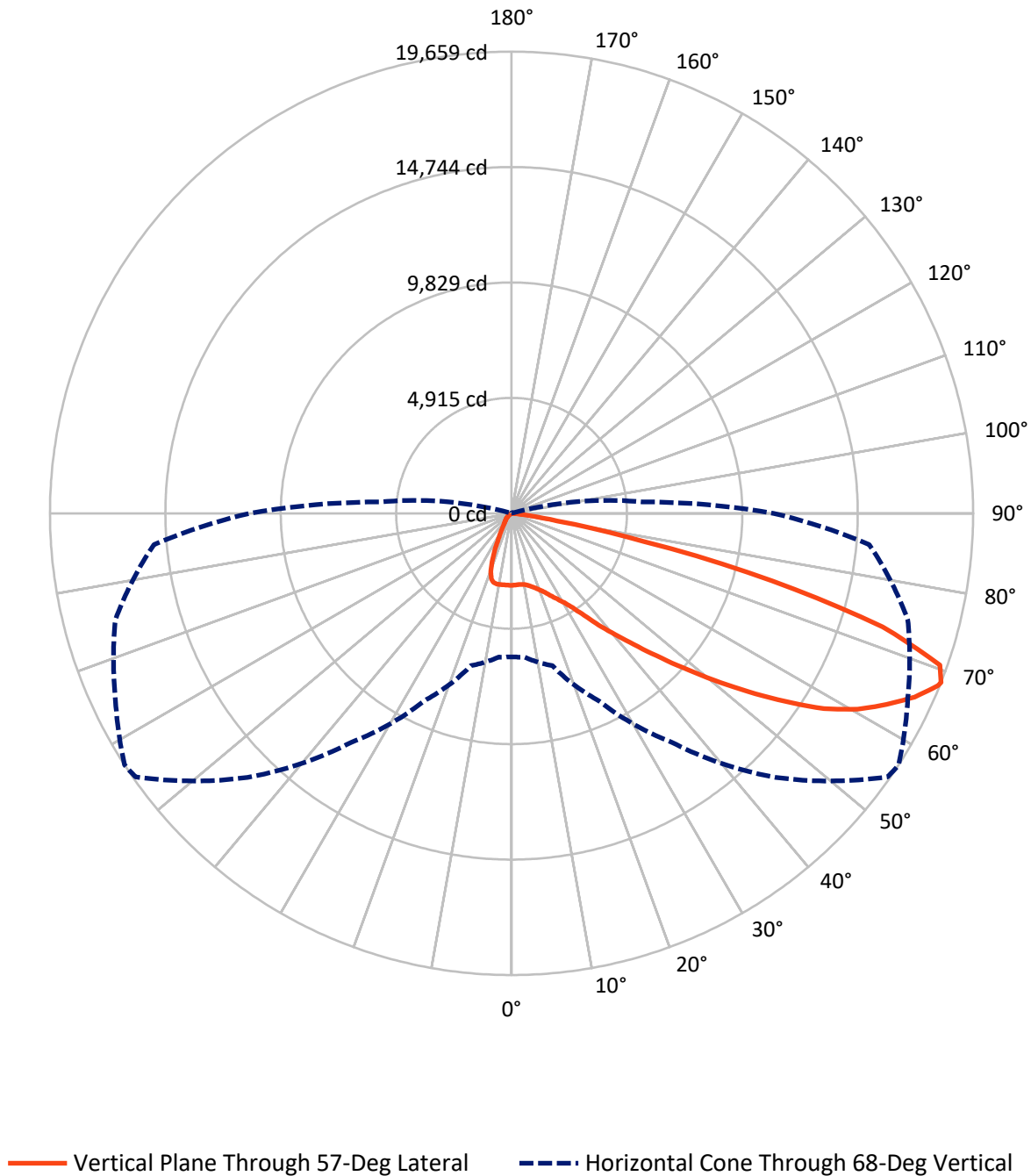
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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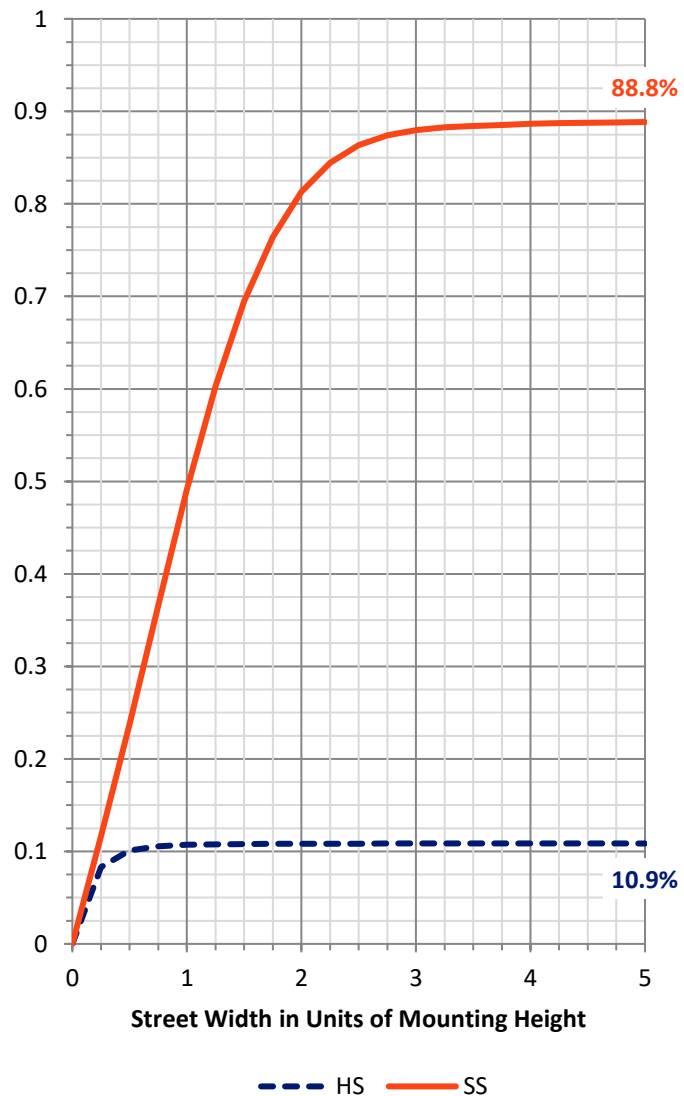
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2826.9	0.0	2826.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	22953.1	0.0	22953.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	25780.0	0.0	25780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	1.1
10°-20°	794.4	3.1
20°-30°	1370.5	5.3
30°-40°	2365.3	9.2
40°-50°	4046.0	15.7
50°-60°	6473.2	25.1
60°-70°	7479.0	29.0
70°-80°	2857.8	11.1
80°-90°	107.1	0.4
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°	25780.0	100.0
0°-180°	25780.0	100.0

Coefficient of Utilization



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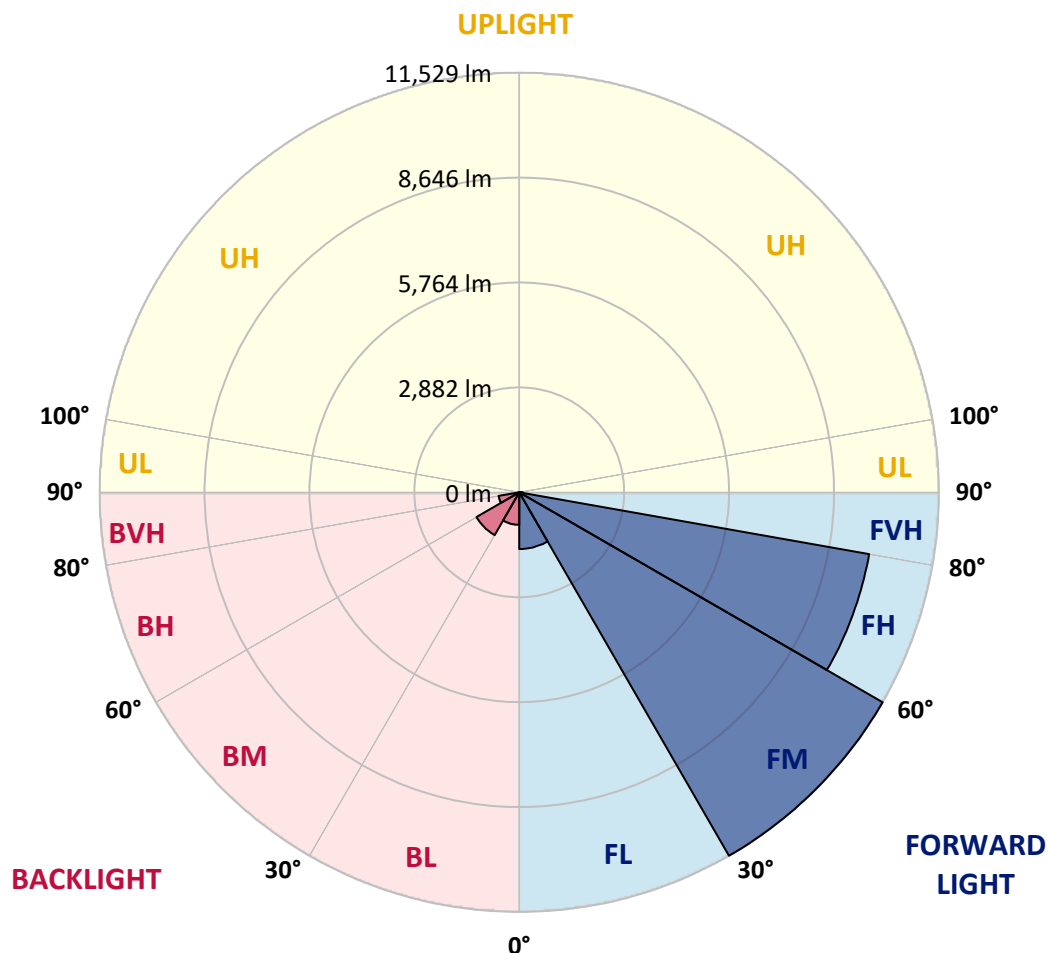
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1558.2	6.0			
FM	(30°-60°)	11528.6	44.7			
FH	(60°-80°)	9761.1	37.9			G4/12000
FVH	(80°-90°)	105.2	0.4			G2/225
BL	(0°-30°)	893.4	3.5	B2/1000		
BM	(30°-60°)	1355.8	5.3	B2/2500		
BH	(60°-80°)	575.7	2.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3
2.5°	2991.4	3004.8	3014.6	3020.7	3028.0	3043.8	3048.7	3056.0	3059.7	3059.7	3068.2
5°	2873.2	2887.8	2908.5	2925.6	2959.7	3003.6	3035.3	3047.5	3069.4	3088.9	3099.9
7.5°	2763.5	2780.5	2804.9	2845.1	2903.7	2974.4	3040.2	3057.2	3099.9	3141.4	3162.1
10°	2692.8	2706.2	2737.9	2795.2	2872.0	2970.7	3063.3	3084.1	3157.2	3226.7	3265.7
12.5°	2668.4	2680.6	2713.5	2778.1	2873.2	2989.0	3117.0	3147.5	3254.7	3355.9	3410.8
15°	2703.7	2706.2	2741.5	2802.5	2896.3	3034.1	3206.0	3242.5	3377.8	3509.5	3577.8
17.5°	2840.3	2829.3	2847.6	2874.4	2948.8	3093.8	3299.8	3354.7	3535.1	3689.9	3754.5
20°	3181.6	3181.6	3140.1	3067.0	3068.2	3186.5	3426.6	3488.8	3709.4	3888.6	3947.1
22.5°	3765.5	3754.5	3671.6	3492.4	3327.9	3346.2	3581.4	3661.9	3919.1	4110.5	4130.0
25°	4467.6	4454.2	4326.2	4073.9	3788.6	3604.6	3791.1	3883.7	4169.0	4338.4	4298.2
27.5°	5211.2	5200.2	5073.5	4760.2	4354.3	4016.6	4041.0	4128.7	4423.7	4590.7	4462.8
30°	5931.6	5935.3	5809.7	5487.9	5028.4	4542.0	4357.9	4409.1	4671.2	4840.6	4657.8
32.5°	6616.7	6621.6	6513.1	6153.5	5724.4	5152.7	4796.8	4783.4	4958.9	5125.9	4916.2
35°	7227.4	7239.6	7165.3	6886.1	6431.4	5832.9	5366.0	5334.3	5367.3	5556.2	5312.4
37.5°	7816.2	7823.5	7767.5	7532.2	7151.9	6580.2	6085.2	6040.1	5969.4	6114.5	5835.3
40°	8461.1	8442.8	8378.2	8164.9	7838.2	7405.4	6858.1	6780.1	6657.0	6786.2	6522.9
42.5°	9060.8	9040.1	9051.1	8809.7	8534.2	8253.8	7758.9	7624.8	7552.9	7701.6	7366.4
45°	9810.5	9799.5	9836.1	9626.4	9403.4	9199.8	8791.4	8645.1	8613.4	8787.8	8386.7
47.5°	10550.4	10577.3	10690.6	10601.6	10511.4	10332.2	9884.9	9819.0	9838.5	10049.4	9463.1
50°	11167.2	11198.9	11509.8	11612.2	11742.6	11637.8	11189.2	11149.0	11225.8	11415.9	10621.1
52.5°	11613.4	11678.0	12064.4	12536.2	13011.6	13082.3	12634.9	12598.4	12702.0	12731.2	11515.9
55°	11923.0	11980.3	12417.9	13281.0	14248.9	14553.6	14275.7	14134.3	14114.8	13825.9	12456.9
57.5°	11977.9	11971.8	12600.8	13762.5	15219.2	16005.5	15829.9	15691.0	15291.1	14837.7	13535.8
60°	11668.3	11703.6	12433.8	13929.5	15828.7	17103.8	17117.2	16936.8	16313.9	15821.4	14581.7
62.5°	10715.0	10858.8	11596.3	13491.9	15821.4	17546.3	18060.7	17922.9	17178.1	16627.1	15642.2
65°	9169.3	9220.5	9923.9	11992.5	14752.3	17361.0	18910.3	18859.1	17957.1	17409.7	16187.1
67.5°	6696.0	6585.0	7323.7	9443.6	12489.9	16280.9	19519.8	19584.4	18558.0	17570.6	15606.8
68°	6110.8	6143.8	6719.1	8813.4	11897.4	15899.4	19560.1	19658.8	18617.8	17465.8	15289.9
70°	3642.4	3705.8	4219.0	6068.2	9051.1	13740.6	19126.1	19351.6	18261.8	16384.6	13224.9
72.5°	930.1	1005.7	1490.8	2715.9	5169.8	9681.3	16145.6	16527.2	15855.5	13292.0	8927.9
75°	382.8	402.3	532.7	894.7	1926.0	4361.6	10641.9	11458.6	10991.7	7957.6	4034.9
77.5°	264.5	277.9	342.5	496.1	833.8	1478.6	5217.3	5807.3	5231.9	2715.9	880.1
80°	190.2	201.1	245.0	330.3	479.1	527.8	1700.5	1966.2	1561.5	596.1	218.2
82.5°	113.4	121.9	182.8	235.3	291.3	252.3	423.0	480.3	452.2	296.2	97.5
85°	56.1	65.8	123.1	168.2	157.3	106.1	129.2	143.8	178.0	180.4	52.4
87.5°	3.7	7.3	71.9	101.2	43.9	24.4	37.8	46.3	63.4	89.0	21.9
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°	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3
2.5°	3071.9	3073.1	3064.6	3060.9	3063.3	3048.7	3042.6	3045.1	3045.1	3048.7	3042.6
5°	3102.4	3102.4	3087.7	3068.2	3057.2	3029.2	3010.9	3006.1	3002.4	3000.0	2995.1
7.5°	3168.2	3160.9	3135.3	3092.6	3056.0	2995.1	2948.8	2924.4	2912.2	2907.3	2903.7
10°	3274.2	3260.8	3218.2	3138.9	3054.8	2946.3	2845.1	2773.2	2713.5	2689.1	2674.5
12.5°	3416.9	3397.3	3325.4	3193.8	3046.3	2846.4	2626.9	2416.1	2219.8	2139.3	2099.1
15°	3581.4	3553.4	3440.0	3240.1	2996.3	2620.8	2144.2	1774.9	1503.0	1400.6	1356.7
17.5°	3748.4	3711.9	3540.0	3269.4	2846.4	2154.0	1504.2	1136.1	954.5	905.7	888.7
20°	3916.6	3863.0	3626.5	3247.4	2507.5	1553.0	992.3	830.1	777.7	763.1	758.2
22.5°	4076.3	3993.4	3704.5	3162.1	1985.7	1042.2	785.0	733.8	716.8	708.2	705.8
25°	4215.3	4099.5	3772.8	2898.8	1405.5	787.5	707.0	690.0	668.0	652.2	653.4
27.5°	4345.7	4205.5	3814.2	2464.8	937.4	672.9	654.6	631.4	591.2	568.1	568.1
30°	4503.0	4346.9	3844.7	1896.8	690.0	594.9	580.2	544.9	490.0	459.6	459.6
32.5°	4739.5	4561.5	3825.2	1331.1	571.7	523.0	488.8	440.1	380.3	351.1	349.9
35°	5101.5	4893.1	3686.3	872.8	504.7	454.7	399.8	340.1	287.7	263.3	262.1
37.5°	5589.1	5336.8	3374.2	624.1	452.2	391.3	325.5	259.6	220.6	204.8	203.6
40°	6221.8	5852.4	2928.0	505.9	403.5	330.3	251.1	201.1	174.3	162.1	163.3
42.5°	6981.2	6404.6	2392.9	436.4	355.9	271.8	196.3	158.5	141.4	132.9	130.4
45°	7824.8	6949.5	1832.2	388.9	308.4	219.4	153.6	125.6	112.1	107.3	107.3
47.5°	8752.4	7479.8	1340.9	347.4	257.2	169.4	123.1	102.4	91.4	87.8	86.5
50°	9594.7	7847.9	966.7	303.5	210.9	134.1	100.0	85.3	78.0	73.1	73.1
52.5°	10296.9	7963.7	711.9	256.0	170.7	107.3	82.9	73.1	65.8	62.2	62.2
55°	10914.9	7916.2	529.0	210.9	137.7	87.8	70.7	62.2	56.1	52.4	52.4
57.5°	11507.3	7762.6	395.0	171.9	110.9	70.7	59.7	52.4	46.3	43.9	43.9
60°	11991.3	7506.6	293.8	139.0	89.0	57.3	50.0	42.7	37.8	34.1	34.1
62.5°	12383.8	7223.8	215.8	114.6	70.7	45.1	39.0	35.4	28.0	24.4	24.4
65°	12386.2	6754.5	162.1	95.1	54.9	35.4	29.3	28.0	18.3	14.6	13.4
67.5°	11490.3	5823.2	124.3	81.7	42.7	26.8	21.9	23.2	9.8	6.1	4.9
68°	11164.8	5586.7	117.0	80.5	40.2	25.6	20.7	23.2	8.5	4.9	3.7
70°	9413.1	4444.5	93.9	78.0	35.4	19.5	17.1	23.2	7.3	3.7	2.4
72.5°	6020.6	2579.4	69.5	62.2	26.8	14.6	11.0	20.7	7.3	2.4	1.2
75°	2562.3	799.7	47.5	43.9	15.8	11.0	7.3	13.4	4.9	1.2	0.0
77.5°	540.0	180.4	28.0	26.8	11.0	7.3	4.9	3.7	1.2	0.0	0.0
80°	139.0	52.4	14.6	13.4	6.1	3.7	2.4	0.0	0.0	0.0	0.0
82.5°	43.9	20.7	8.5	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.9	12.2	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	3.7	1.2	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)