

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: P322380

Luminaire Tested: **GAN-SA6D-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322380
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-SA6D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA 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: 24860 lumens
Efficiency: N/A
Efficacy: 65.1 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): 382
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



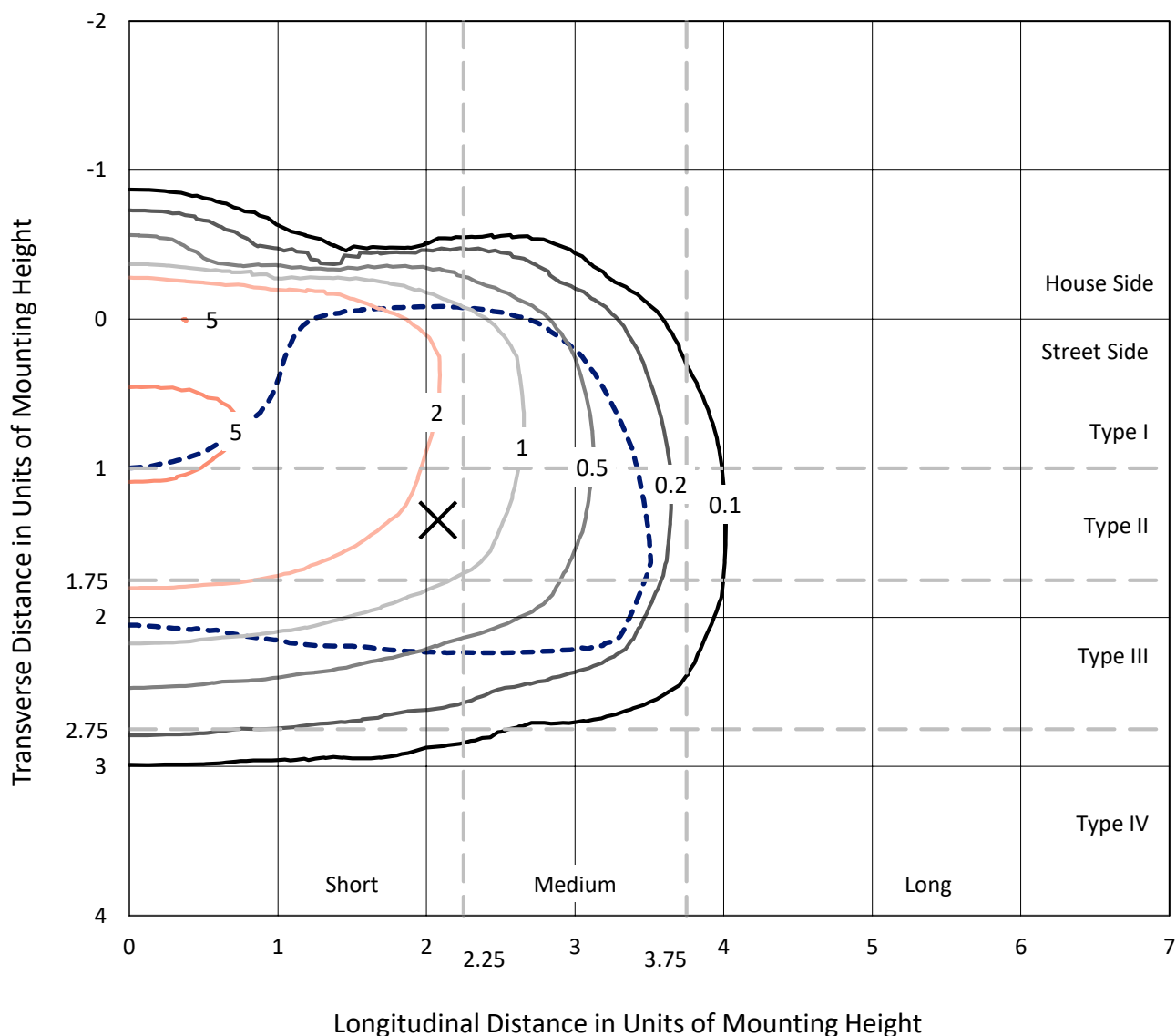
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

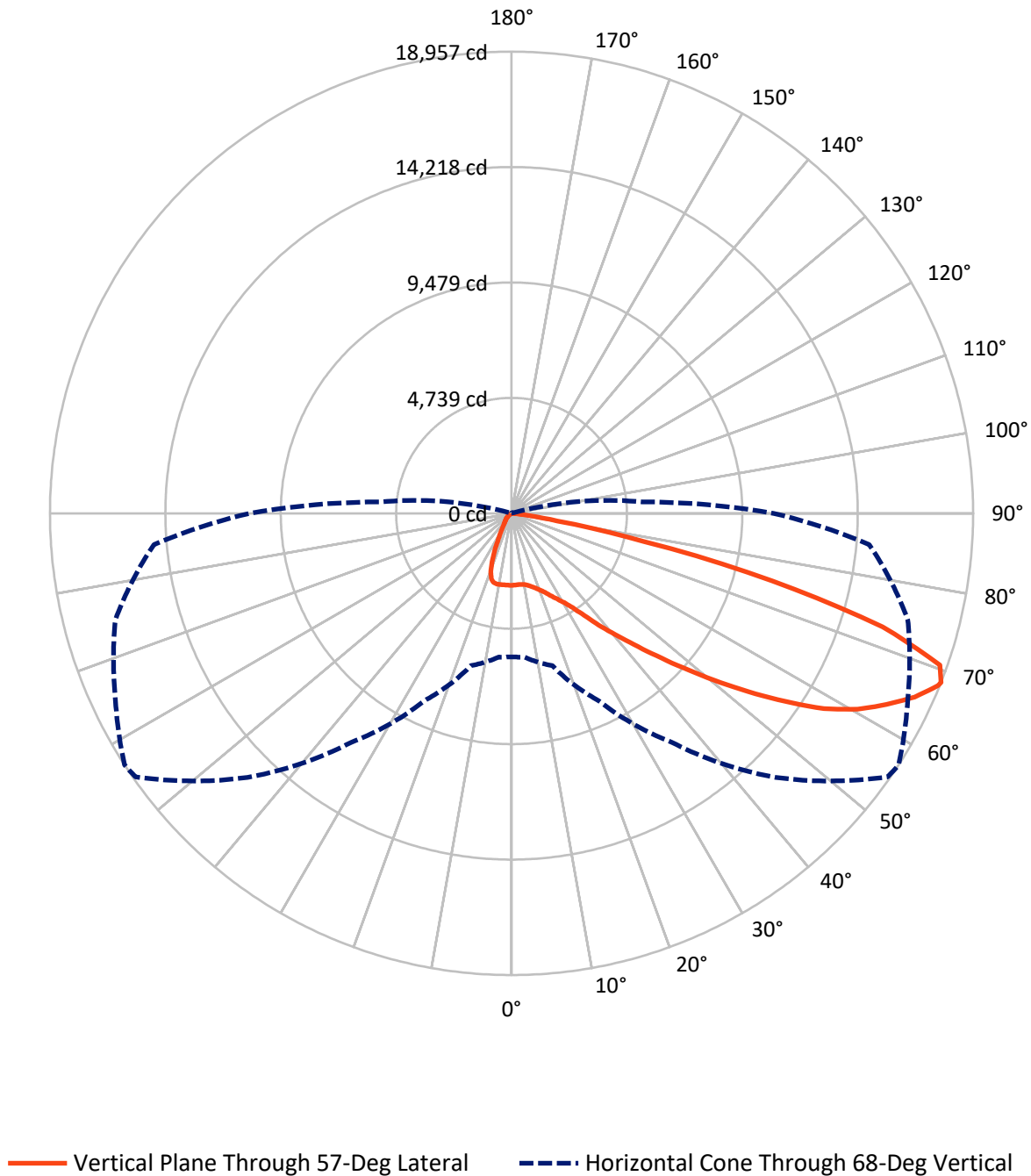
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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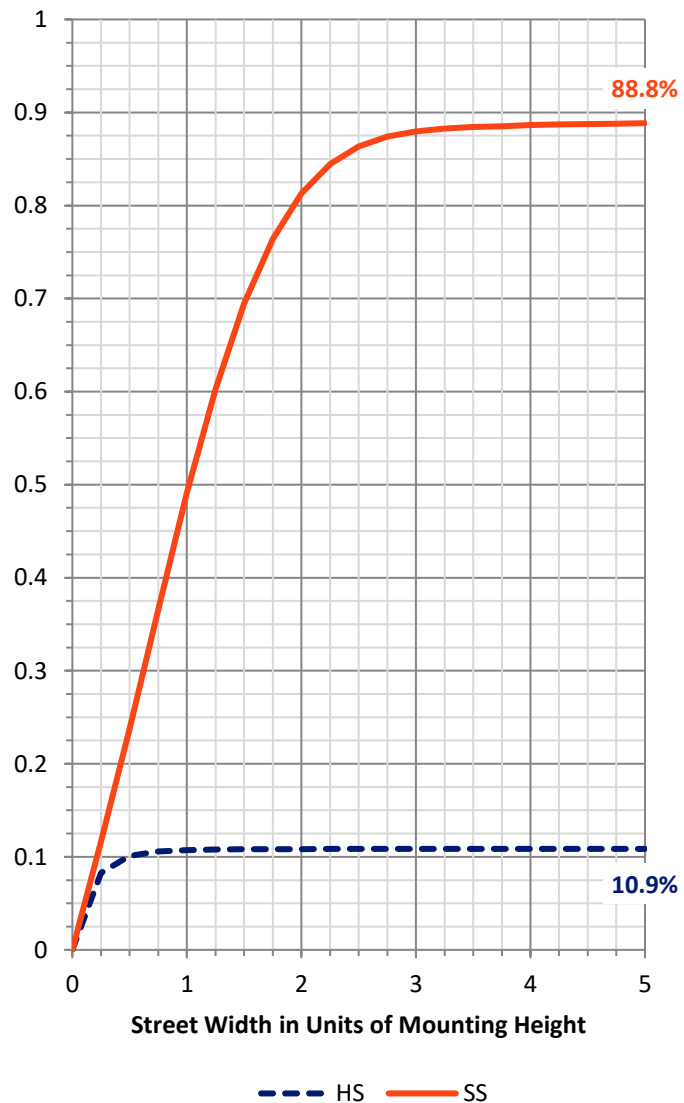
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2726.1	0.0	2726.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	22133.9	0.0	22133.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	24860.0	0.0	24860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.1
10°-20°	766.1	3.1
20°-30°	1321.5	5.3
30°-40°	2280.9	9.2
40°-50°	3901.6	15.7
50°-60°	6242.1	25.1
60°-70°	7212.1	29.0
70°-80°	2755.9	11.1
80°-90°	103.3	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°	24860.0	100.0
0°-180°	24860.0	100.0

Coefficient of Utilization



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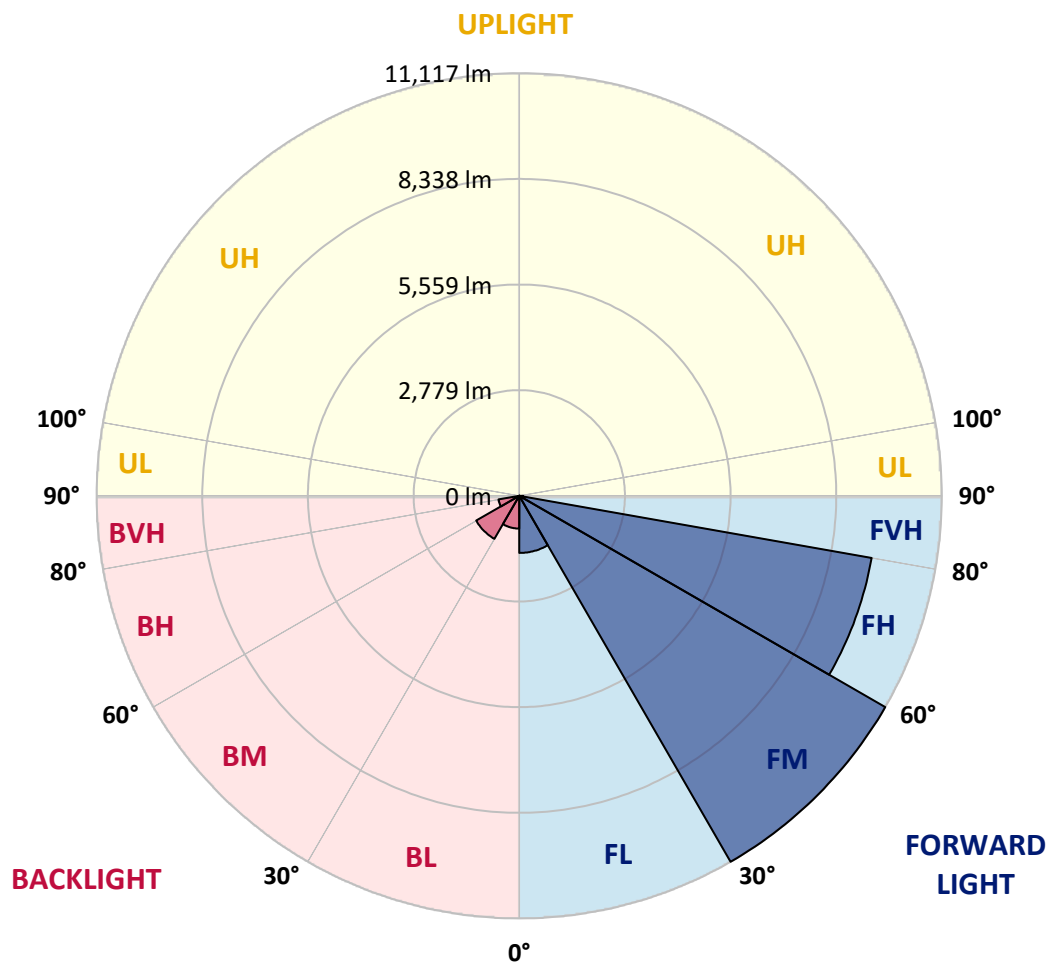
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1502.5	6.0			
FM	(30°-60°)	11117.2	44.7			
FH	(60°-80°)	9412.8	37.9			G4/12000
FVH	(80°-90°)	101.4	0.4			G2/225
BL	(0°-30°)	861.5	3.5	B2/1000		
BM	(30°-60°)	1307.5	5.3	B2/2500		
BH	(60°-80°)	555.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.9	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°	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0
2.5°	2884.7	2897.6	2907.0	2912.9	2919.9	2935.2	2939.9	2947.0	2950.5	2950.5	2958.7
5°	2770.6	2784.8	2804.7	2821.2	2854.1	2896.4	2927.0	2938.7	2959.9	2978.7	2989.3
7.5°	2664.9	2681.3	2704.8	2743.6	2800.0	2868.2	2931.7	2948.1	2989.3	3029.3	3049.2
10°	2596.7	2609.6	2640.2	2695.4	2769.5	2864.7	2954.0	2974.0	3044.5	3111.5	3149.2
12.5°	2573.2	2584.9	2616.7	2679.0	2770.6	2882.3	3005.7	3035.1	3138.6	3236.1	3289.0
15°	2607.3	2609.6	2643.7	2702.5	2793.0	2925.8	3091.6	3126.8	3257.3	3384.3	3450.1
17.5°	2738.9	2728.3	2746.0	2771.8	2843.5	2983.4	3182.1	3235.0	3408.9	3558.2	3620.5
20°	3068.0	3068.0	3028.1	2957.5	2958.7	3072.7	3304.3	3364.3	3577.0	3749.8	3806.3
22.5°	3631.1	3620.5	3540.6	3367.8	3209.1	3226.7	3453.6	3531.2	3779.2	3963.8	3982.6
25°	4308.2	4295.3	4171.8	3928.5	3653.4	3475.9	3655.8	3745.1	4020.2	4183.6	4144.8
27.5°	5025.2	5014.7	4892.4	4590.3	4198.9	3873.3	3896.8	3981.4	4265.9	4426.9	4303.5
30°	5720.0	5723.5	5602.4	5292.1	4848.9	4379.9	4202.4	4251.8	4504.5	4667.9	4491.6
32.5°	6380.6	6385.3	6280.7	5933.9	5520.1	4968.8	4625.6	4612.6	4781.9	4943.0	4740.8
35°	6969.5	6981.3	6909.6	6640.4	6201.9	5624.8	5174.5	5144.0	5175.7	5357.9	5122.8
37.5°	7537.3	7544.3	7490.3	7263.4	6896.6	6345.3	5868.1	5824.6	5756.4	5896.3	5627.1
40°	8159.1	8141.5	8079.2	7873.5	7558.4	7141.1	6613.3	6538.1	6419.4	6544.0	6290.1
42.5°	8737.5	8717.5	8728.1	8495.3	8229.7	7959.3	7482.0	7352.7	7283.4	7426.8	7103.5
45°	9460.4	9449.8	9485.1	9282.9	9067.8	8871.5	8477.7	8336.6	8306.1	8474.2	8087.4
47.5°	10173.9	10199.8	10309.1	10223.3	10136.3	9963.5	9532.1	9468.6	9487.4	9690.8	9125.4
50°	10768.7	10799.3	11099.0	11197.8	11323.6	11222.5	10789.9	10751.1	10825.1	11008.5	10242.1
52.5°	11199.0	11261.3	11633.9	12088.8	12547.3	12615.4	12184.0	12148.8	12248.7	12276.9	11104.9
55°	11497.5	11552.8	11974.8	12807.0	13740.4	14034.3	13766.2	13629.9	13611.1	13332.5	12012.4
57.5°	11550.4	11544.6	12151.1	13271.4	14676.1	15434.3	15265.0	15131.0	14745.4	14308.1	13052.7
60°	11251.9	11285.9	11990.1	13432.4	15263.8	16493.4	16506.3	16332.4	15731.7	15256.8	14061.3
62.5°	10332.6	10471.3	11182.5	13010.4	15256.8	16920.1	17416.2	17283.3	16565.1	16033.8	15084.0
65°	8842.1	8891.5	9569.7	11564.5	14225.9	16741.4	18235.5	18186.1	17316.2	16788.4	15609.4
67.5°	6457.0	6350.0	7062.4	9106.6	12044.1	15699.9	18823.2	18885.5	17895.8	16943.6	15049.9
68°	5892.8	5924.5	6479.3	8498.8	11472.8	15332.0	18862.0	18957.2	17953.4	16842.5	14744.3
70°	3512.4	3573.5	4068.4	5851.6	8728.1	13250.2	18443.5	18661.0	17610.1	15799.9	12753.0
72.5°	896.9	969.8	1437.6	2619.0	4985.3	9335.8	15569.5	15937.4	15289.7	12817.6	8609.3
75°	369.1	387.9	513.7	862.8	1857.3	4205.9	10262.1	11049.7	10599.5	7673.6	3890.9
77.5°	255.1	268.0	330.3	478.4	804.0	1425.9	5031.1	5600.1	5045.2	2619.0	848.7
80°	183.4	194.0	236.3	318.6	462.0	509.0	1639.8	1896.1	1505.8	574.8	210.4
82.5°	109.3	117.5	176.3	226.9	280.9	243.3	407.9	463.1	436.1	285.6	94.0
85°	54.1	63.5	118.7	162.2	151.6	102.3	124.6	138.7	171.6	174.0	50.5
87.5°	3.5	7.1	69.4	97.6	42.3	23.5	36.4	44.7	61.1	85.8	21.2
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°	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0	2954.0
2.5°	2962.3	2963.4	2955.2	2951.7	2954.0	2939.9	2934.0	2936.4	2936.4	2939.9	2934.0
5°	2991.6	2991.6	2977.5	2958.7	2948.1	2921.1	2903.5	2898.8	2895.2	2892.9	2888.2
7.5°	3055.1	3048.1	3023.4	2982.2	2947.0	2888.2	2843.5	2820.0	2808.3	2803.6	2800.0
10°	3157.4	3144.5	3103.3	3026.9	2945.8	2841.2	2743.6	2674.3	2616.7	2593.1	2579.0
12.5°	3294.9	3276.1	3206.8	3079.8	2937.6	2744.8	2533.2	2329.8	2140.6	2063.0	2024.2
15°	3453.6	3426.6	3317.3	3124.5	2889.4	2527.3	2067.7	1711.5	1449.4	1350.6	1308.3
17.5°	3614.7	3579.4	3413.6	3152.7	2744.8	2077.1	1450.6	1095.6	920.4	873.4	856.9
20°	3776.9	3725.1	3497.1	3131.5	2418.0	1497.6	956.9	800.5	750.0	735.9	731.2
22.5°	3930.9	3850.9	3572.3	3049.2	1914.9	1005.0	757.0	707.6	691.2	683.0	680.6
25°	4064.9	3953.2	3638.2	2795.3	1355.3	759.4	681.8	665.3	644.2	628.9	630.1
27.5°	4190.6	4055.5	3678.1	2376.9	904.0	648.9	631.2	608.9	570.1	547.8	547.8
30°	4342.3	4191.8	3707.5	1829.1	665.3	573.6	559.5	525.4	472.5	443.2	443.2
32.5°	4570.3	4398.7	3688.7	1283.6	551.3	504.3	471.4	424.4	366.8	338.5	337.4
35°	4919.5	4718.4	3554.7	841.7	486.7	438.5	385.6	328.0	277.4	253.9	252.7
37.5°	5389.7	5146.3	3253.8	601.9	436.1	377.3	313.9	250.4	212.8	197.5	196.3
40°	5999.7	5643.6	2823.5	487.8	389.1	318.6	242.2	194.0	168.1	156.3	157.5
42.5°	6732.1	6176.1	2307.5	420.8	343.2	262.1	189.3	152.8	136.4	128.1	125.8
45°	7545.5	6701.5	1766.8	375.0	297.4	211.6	148.1	121.1	108.1	103.4	103.4
47.5°	8440.1	7212.8	1293.0	335.0	248.0	163.4	118.7	98.7	88.2	84.6	83.5
50°	9252.3	7567.8	932.2	292.7	203.4	129.3	96.4	82.3	75.2	70.5	70.5
52.5°	9929.4	7679.5	686.5	246.9	164.6	103.4	79.9	70.5	63.5	60.0	60.0
55°	10525.4	7633.7	510.2	203.4	132.8	84.6	68.2	60.0	54.1	50.5	50.5
57.5°	11096.7	7485.6	380.9	165.7	107.0	68.2	57.6	50.5	44.7	42.3	42.3
60°	11563.4	7238.7	283.3	134.0	85.8	55.2	48.2	41.1	36.4	32.9	32.9
62.5°	11941.9	6966.0	208.1	110.5	68.2	43.5	37.6	34.1	27.0	23.5	23.5
65°	11944.2	6513.4	156.3	91.7	52.9	34.1	28.2	27.0	17.6	14.1	12.9
67.5°	11080.2	5615.3	119.9	78.8	41.1	25.9	21.2	22.3	9.4	5.9	4.7
68°	10766.4	5387.3	112.8	77.6	38.8	24.7	20.0	22.3	8.2	4.7	3.5
70°	9077.2	4285.9	90.5	75.2	34.1	18.8	16.5	22.3	7.1	3.5	2.4
72.5°	5805.8	2487.4	67.0	60.0	25.9	14.1	10.6	20.0	7.1	2.4	1.2
75°	2470.9	771.1	45.8	42.3	15.3	10.6	7.1	12.9	4.7	1.2	0.0
77.5°	520.7	174.0	27.0	25.9	10.6	7.1	4.7	3.5	1.2	0.0	0.0
80°	134.0	50.5	14.1	12.9	5.9	3.5	2.4	0.0	0.0	0.0	0.0
82.5°	42.3	20.0	8.2	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.2	11.8	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	3.5	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)