

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: P322169

Luminaire Tested: **GAN-SA5C-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322169
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-SA5C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 21544 lumens
Efficiency: N/A
Efficacy: 77.2 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): 279
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

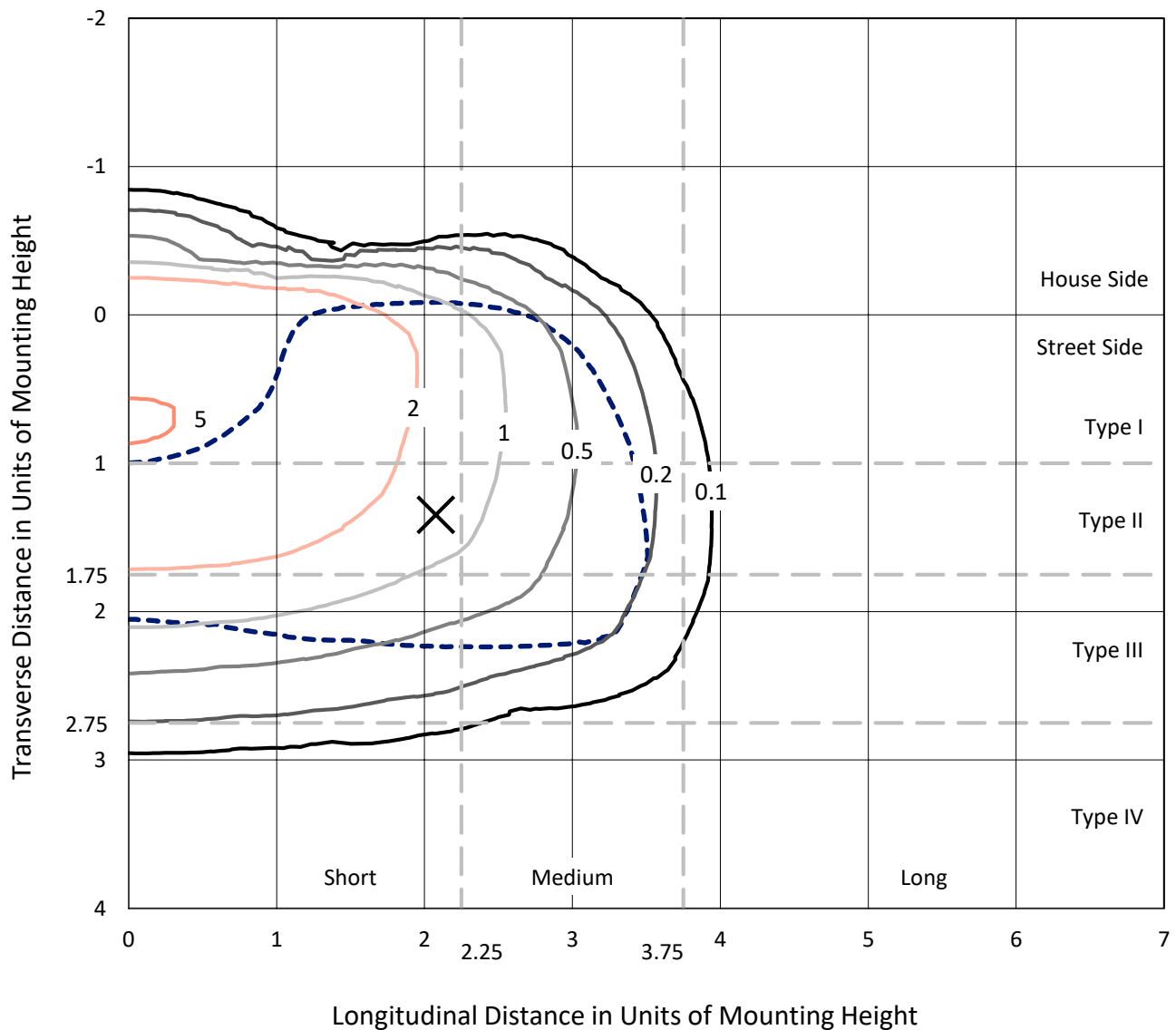


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Iso-Footcandle Lines of Horizontal Illumination

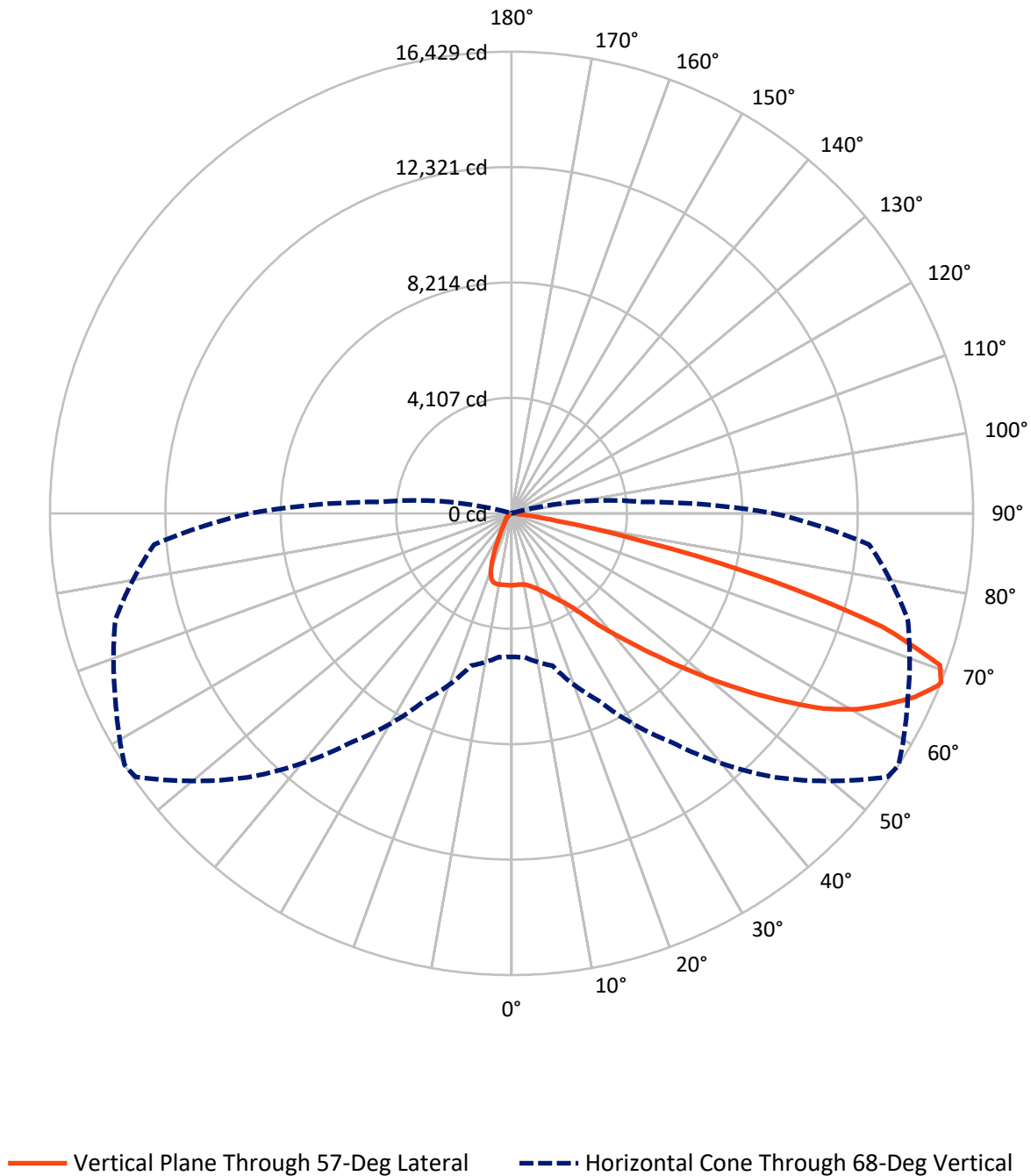
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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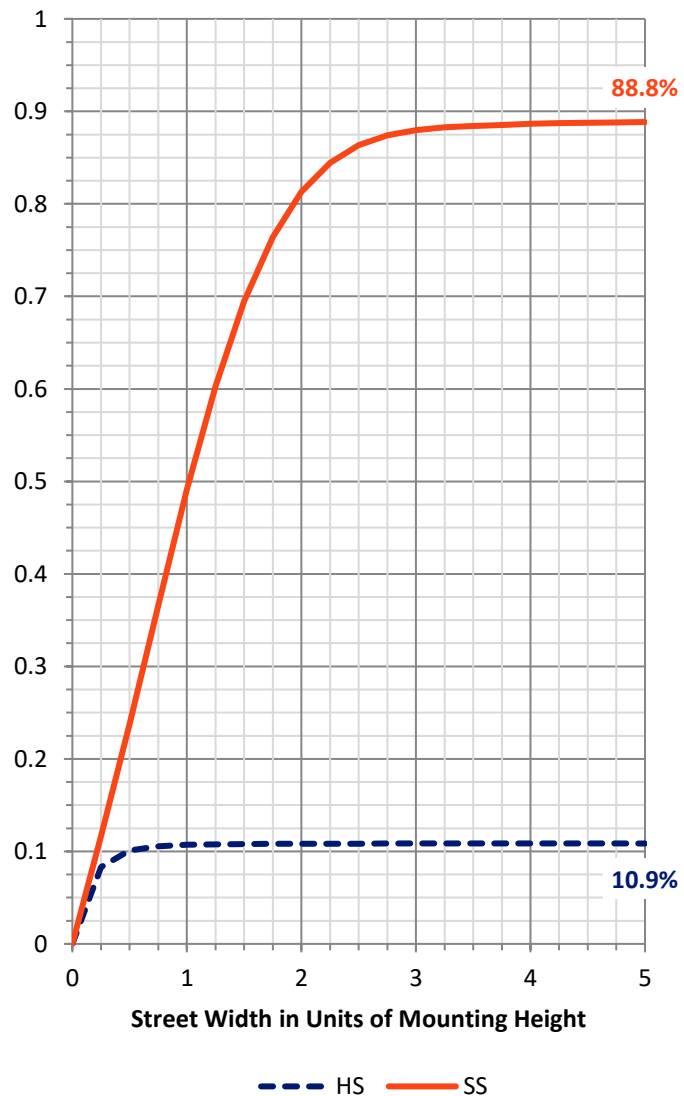
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2362.4	0.0	2362.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	19181.6	0.0	19181.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	21544.0	0.0	21544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	1.1
10°-20°	663.9	3.1
20°-30°	1145.3	5.3
30°-40°	1976.7	9.2
40°-50°	3381.2	15.7
50°-60°	5409.5	25.1
60°-70°	6250.1	29.0
70°-80°	2388.3	11.1
80°-90°	89.5	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°	21544.0	100.0
0°-180°	21544.0	100.0

Coefficient of Utilization



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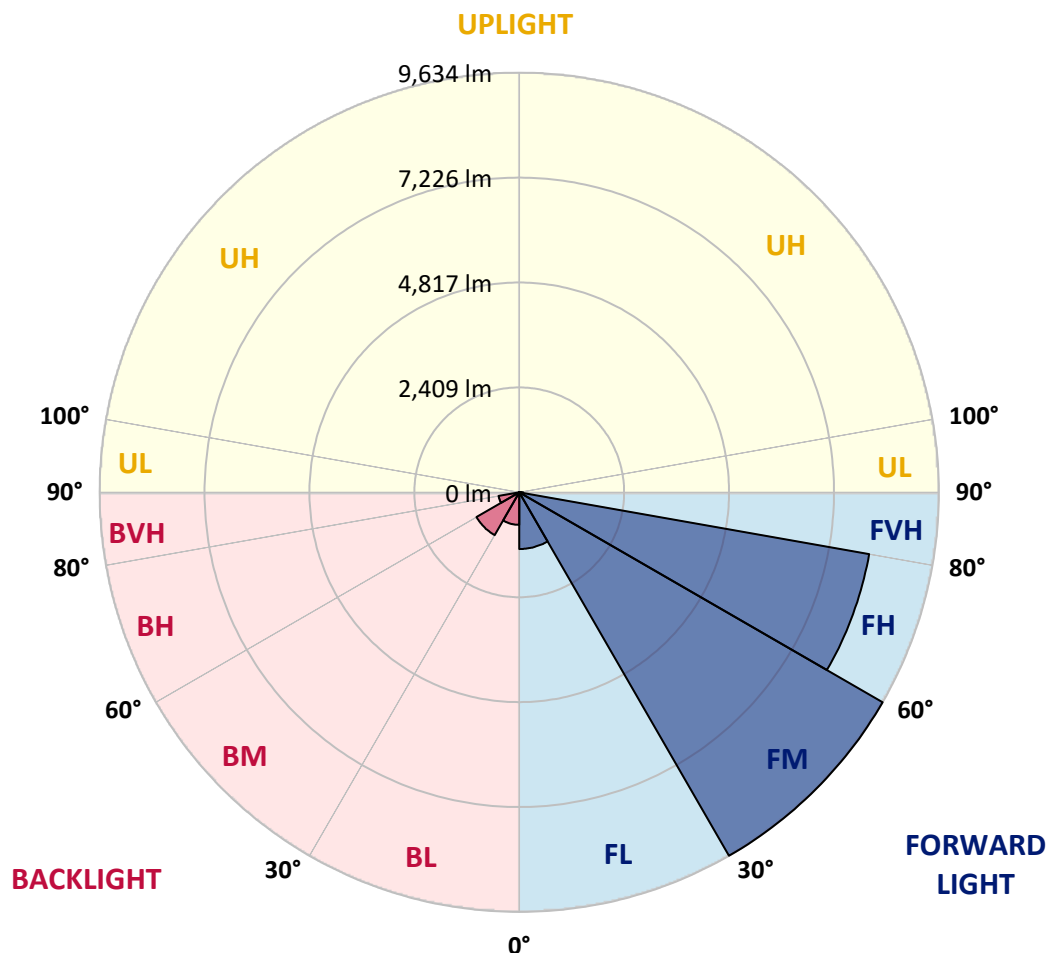
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1302.1	6.0			
FM	(30°-60°)	9634.3	44.7			
FH	(60°-80°)	8157.3	37.9			G4/12000
FVH	(80°-90°)	87.9	0.4			G1/100
BL	(0°-30°)	746.6	3.5	B2/1000		
BM	(30°-60°)	1133.1	5.3	B2/2500		
BH	(60°-80°)	481.1	2.2	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0
2.5°	2499.9	2511.1	2519.2	2524.3	2530.5	2543.7	2547.8	2553.9	2556.9	2556.9	2564.1
5°	2401.1	2413.3	2430.6	2444.9	2473.4	2510.1	2536.6	2546.8	2565.1	2581.4	2590.6
7.5°	2309.4	2323.7	2344.0	2377.6	2426.5	2485.6	2540.6	2554.9	2590.6	2625.2	2642.5
10°	2250.3	2261.5	2288.0	2335.9	2400.1	2482.6	2560.0	2577.3	2638.4	2696.5	2729.1
12.5°	2229.9	2240.1	2267.6	2321.6	2401.1	2497.9	2604.8	2630.3	2719.9	2804.5	2850.3
15°	2259.5	2261.5	2291.1	2342.0	2420.4	2535.5	2679.2	2709.7	2822.8	2932.8	2989.9
17.5°	2373.6	2364.4	2379.7	2402.1	2464.2	2585.5	2757.6	2803.5	2954.2	3083.6	3137.6
20°	2658.8	2658.8	2624.2	2563.1	2564.1	2662.9	2863.6	2915.5	3099.9	3249.7	3298.6
22.5°	3146.8	3137.6	3068.3	2918.6	2781.1	2796.3	2992.9	3060.2	3275.1	3435.1	3451.4
25°	3733.5	3722.3	3615.4	3404.5	3166.1	3012.3	3168.2	3245.6	3484.0	3625.6	3591.9
27.5°	4354.9	4345.8	4239.8	3978.0	3638.8	3356.6	3377.0	3450.3	3696.9	3836.4	3729.5
30°	4957.0	4960.1	4855.1	4586.2	4202.1	3795.7	3641.9	3684.6	3903.7	4045.3	3892.5
32.5°	5529.5	5533.6	5442.9	5142.4	4783.8	4306.0	4008.6	3997.4	4144.1	4283.6	4108.4
35°	6039.9	6050.1	5987.9	5754.6	5374.7	4874.5	4484.3	4457.8	4485.3	4643.2	4439.5
37.5°	6531.9	6538.0	6491.2	6294.6	5976.7	5498.9	5085.4	5047.7	4988.6	5109.8	4876.5
40°	7070.8	7055.5	7001.5	6823.3	6550.2	6188.6	5731.2	5666.0	5563.1	5671.1	5451.1
42.5°	7572.0	7554.7	7563.9	7362.2	7131.9	6897.6	6484.0	6372.0	6311.9	6436.2	6156.0
45°	8198.5	8189.3	8219.9	8044.7	7858.3	7688.1	7346.9	7224.6	7198.1	7343.8	7008.7
47.5°	8816.9	8839.3	8934.0	8859.6	8784.3	8634.5	8260.6	8205.6	8221.9	8398.2	7908.2
50°	9332.3	9358.8	9618.6	9704.1	9813.1	9725.5	9350.7	9317.0	9381.2	9540.1	8875.9
52.5°	9705.2	9759.2	10082.1	10476.3	10873.6	10932.7	10558.8	10528.3	10614.9	10639.3	9623.7
55°	9963.9	10011.8	10377.5	11098.7	11907.6	12162.3	11930.0	11811.8	11795.5	11554.1	10410.1
57.5°	10009.8	10004.7	10530.3	11501.1	12718.5	13375.5	13228.8	13112.7	12778.6	12399.6	11311.7
60°	9751.0	9780.5	10390.7	11640.7	13227.8	14293.4	14304.6	14153.8	13633.3	13221.7	12185.7
62.5°	8954.4	9074.6	9690.9	11275.0	13221.7	14663.2	15093.1	14978.0	14355.5	13895.1	13072.0
65°	7662.7	7705.5	8293.2	10022.0	12328.3	14508.3	15803.1	15760.3	15006.5	14549.1	13527.3
67.5°	5595.7	5503.0	6120.4	7891.9	10437.6	13605.8	16312.5	16366.4	15508.7	14683.6	13042.4
68°	5106.7	5134.3	5615.1	7365.2	9942.5	13286.9	16346.1	16428.6	15558.6	14595.9	12777.6
70°	3043.9	3096.9	3525.7	5071.1	7563.9	11482.8	15983.4	16171.9	15261.2	13692.4	11051.9
72.5°	777.3	840.4	1245.9	2269.7	4320.3	8090.5	13492.7	13811.5	13250.2	11107.9	7461.0
75°	319.9	336.2	445.2	747.7	1609.5	3644.9	8893.3	9575.8	9185.6	6650.1	3371.9
77.5°	221.1	232.3	286.3	414.6	696.8	1235.7	4360.0	4853.1	4372.3	2269.7	735.5
80°	158.9	168.1	204.8	276.1	400.3	441.1	1421.1	1643.2	1305.0	498.1	182.3
82.5°	94.7	101.9	152.8	196.6	243.5	210.9	353.5	401.4	377.9	247.5	81.5
85°	46.9	55.0	102.9	140.6	131.4	88.6	108.0	120.2	148.7	150.8	43.8
87.5°	3.1	6.1	60.1	84.6	36.7	20.4	31.6	38.7	53.0	74.4	18.3
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°	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0	2560.0
2.5°	2567.1	2568.1	2561.0	2558.0	2560.0	2547.8	2542.7	2544.7	2544.7	2547.8	2542.7
5°	2592.6	2592.6	2580.4	2564.1	2554.9	2531.5	2516.2	2512.1	2509.1	2507.0	2502.9
7.5°	2647.6	2641.5	2620.1	2584.4	2553.9	2502.9	2464.2	2443.9	2433.7	2429.6	2426.5
10°	2736.2	2725.0	2689.4	2623.2	2552.9	2462.2	2377.6	2317.5	2267.6	2247.3	2235.0
12.5°	2855.4	2839.1	2779.0	2669.0	2545.7	2378.7	2195.3	2019.1	1855.1	1787.8	1754.2
15°	2992.9	2969.5	2874.8	2707.7	2504.0	2190.2	1791.9	1483.2	1256.1	1170.5	1133.8
17.5°	3132.5	3101.9	2958.3	2732.2	2378.7	1800.0	1257.1	949.4	797.6	756.9	742.6
20°	3273.1	3228.3	3030.6	2713.8	2095.5	1297.8	829.2	693.7	649.9	637.7	633.6
22.5°	3406.5	3337.3	3095.8	2642.5	1659.5	871.0	656.0	613.3	599.0	591.9	589.8
25°	3522.7	3425.9	3152.9	2422.5	1174.6	658.1	590.8	576.6	558.2	545.0	546.0
27.5°	3631.7	3514.5	3187.5	2059.8	783.4	562.3	547.0	527.7	494.1	474.7	474.7
30°	3763.1	3632.7	3213.0	1585.1	576.6	497.1	484.9	455.4	409.5	384.1	384.1
32.5°	3960.7	3812.0	3196.7	1112.4	477.8	437.0	408.5	367.8	317.8	293.4	292.4
35°	4263.3	4089.1	3080.6	729.4	421.7	380.0	334.1	284.2	240.4	220.0	219.0
37.5°	4670.7	4459.9	2819.8	521.6	377.9	327.0	272.0	217.0	184.4	171.1	170.1
40°	5199.4	4890.8	2446.9	422.8	337.2	276.1	209.9	168.1	145.7	135.5	136.5
42.5°	5834.1	5352.3	1999.7	364.7	297.5	227.2	164.0	132.4	118.2	111.0	109.0
45°	6539.0	5807.6	1531.1	325.0	257.7	183.4	128.4	104.9	93.7	89.6	89.6
47.5°	7314.3	6250.7	1120.6	290.3	214.9	141.6	102.9	85.6	76.4	73.3	72.3
50°	8018.2	6558.4	807.8	253.7	176.2	112.1	83.5	71.3	65.2	61.1	61.1
52.5°	8605.0	6655.2	594.9	213.9	142.6	89.6	69.3	61.1	55.0	52.0	52.0
55°	9121.4	6615.4	442.1	176.2	115.1	73.3	59.1	52.0	46.9	43.8	43.8
57.5°	9616.5	6487.1	330.1	143.6	92.7	59.1	49.9	43.8	38.7	36.7	36.7
60°	10021.0	6273.2	245.5	116.1	74.4	47.9	41.8	35.7	31.6	28.5	28.5
62.5°	10349.0	6036.8	180.3	95.8	59.1	37.7	32.6	29.5	23.4	20.4	20.4
65°	10351.0	5644.6	135.5	79.5	45.8	29.5	24.4	23.4	15.3	12.2	11.2
67.5°	9602.3	4866.3	103.9	68.3	35.7	22.4	18.3	19.4	8.1	5.1	4.1
68°	9330.3	4668.7	97.8	67.2	33.6	21.4	17.3	19.4	7.1	4.1	3.1
70°	7866.4	3714.2	78.4	65.2	29.5	16.3	14.3	19.4	6.1	3.1	2.0
72.5°	5031.4	2155.6	58.1	52.0	22.4	12.2	9.2	17.3	6.1	2.0	1.0
75°	2141.3	668.3	39.7	36.7	13.2	9.2	6.1	11.2	4.1	1.0	0.0
77.5°	451.3	150.8	23.4	22.4	9.2	6.1	4.1	3.1	1.0	0.0	0.0
80°	116.1	43.8	12.2	11.2	5.1	3.1	2.0	0.0	0.0	0.0	0.0
82.5°	36.7	17.3	7.1	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	10.2	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	3.1	1.0	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)