

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386832

Luminaire Tested: GAW-SA2C-735-U-SL2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-735-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11485 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

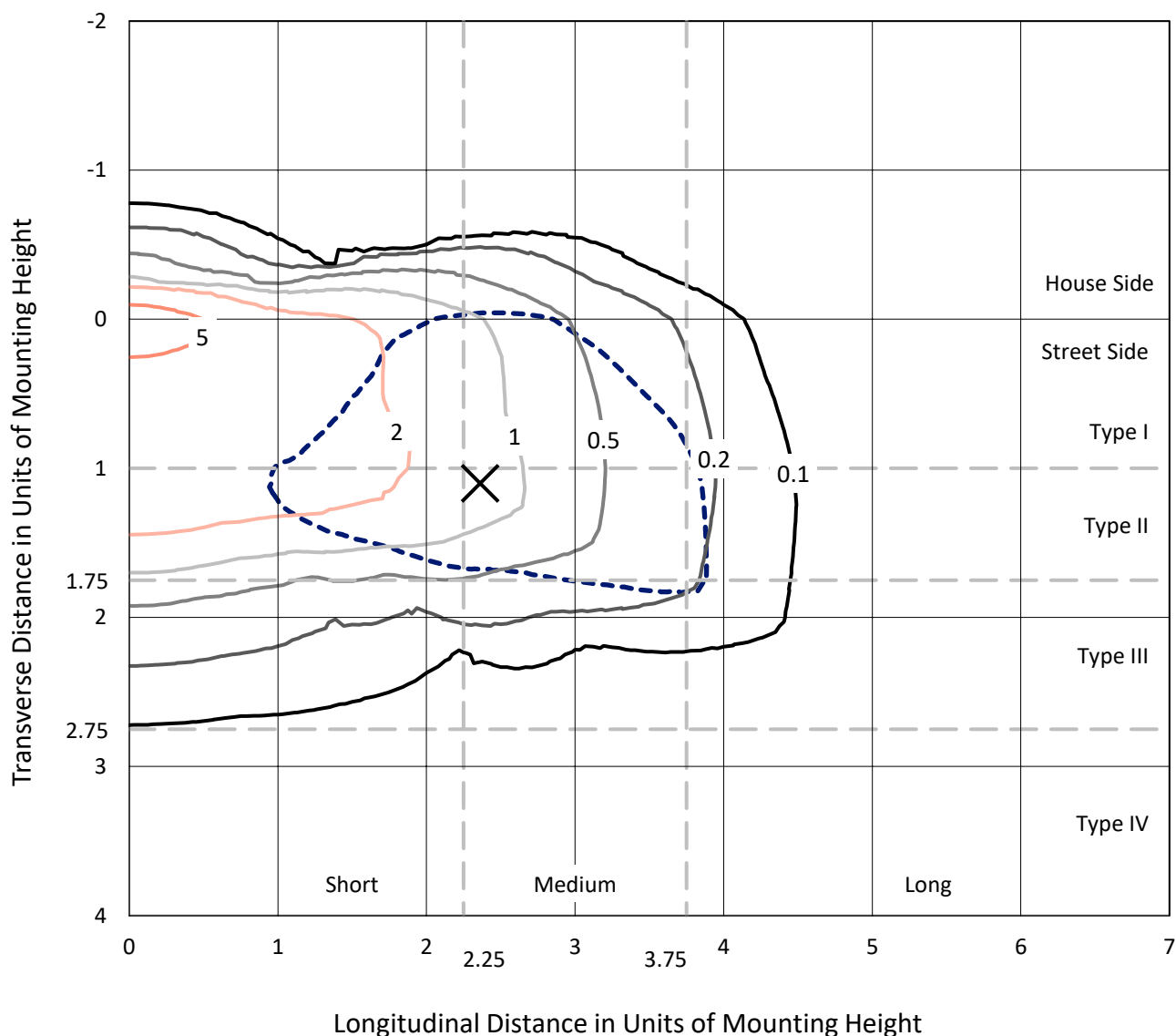
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

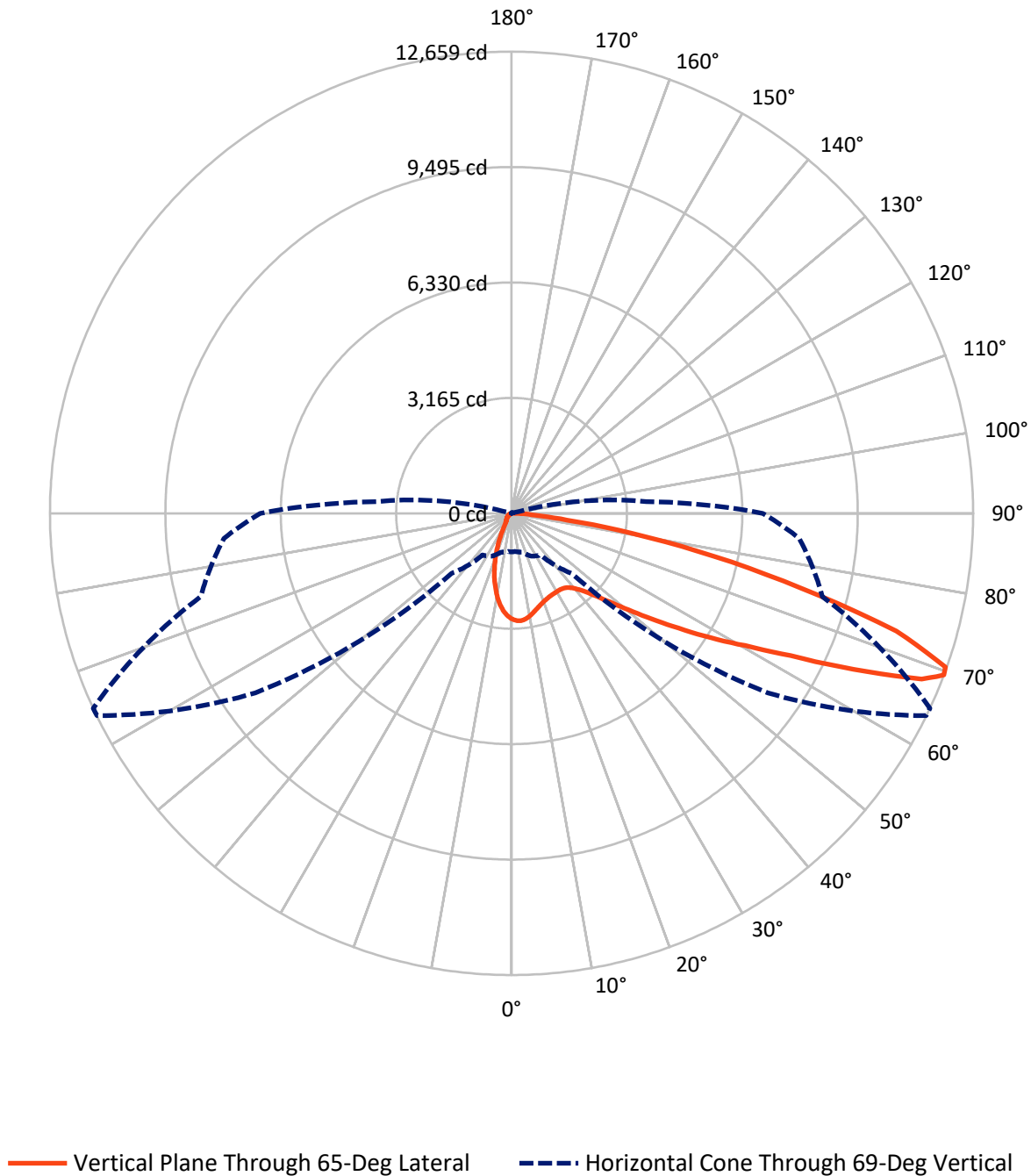
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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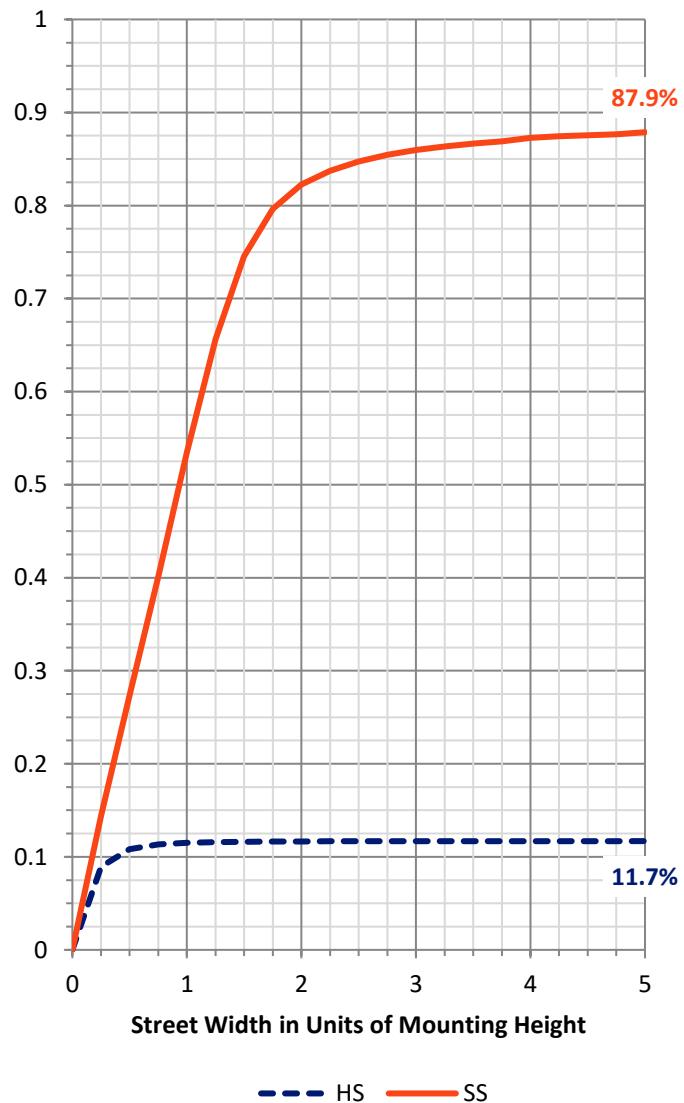
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1353.8	0.0	1353.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10131.2	0.0	10131.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	11485.0	0.0	11485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	2.1
10°-20°	531.3	4.6
20°-30°	735.8	6.4
30°-40°	1026.0	8.9
40°-50°	1594.7	13.9
50°-60°	2560.1	22.3
60°-70°	2895.9	25.2
70°-80°	1700.8	14.8
80°-90°	197.9	1.7
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°	11485.0	100.0
0°-180°	11485.0	100.0

Coefficient of Utilization



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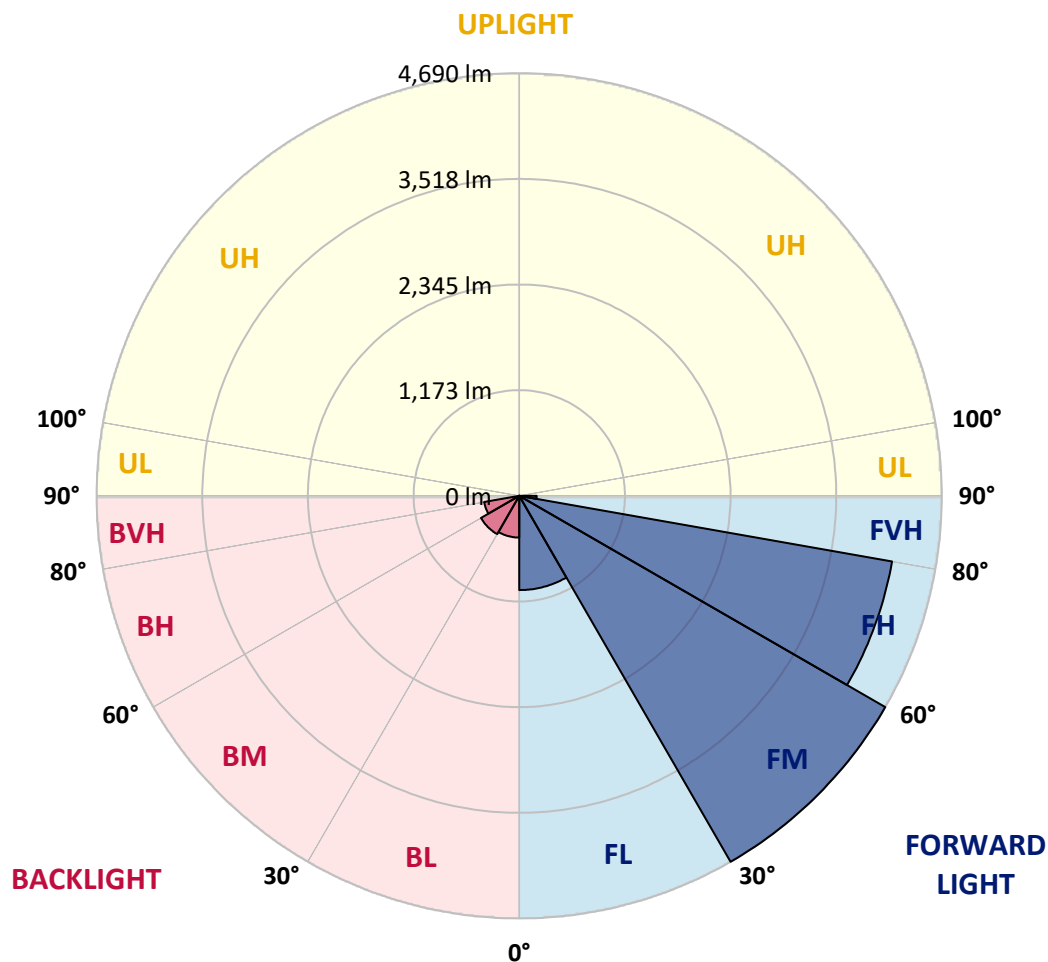
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1046.6	9.1			
FM	(30°-60°)	4690.2	40.8			
FH	(60°-80°)	4201.1	36.6			G2/5000
FVH	(80°-90°)	193.4	1.7			G2/225
BL	(0°-30°)	463.2	4.0	B1/500		
BM	(30°-60°)	490.6	4.3	B1/1000		
BH	(60°-80°)	395.6	3.4	B1/500		G1/500
BVH	(80°-90°)	4.5	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3
2.5°	2928.1	2920.8	2926.6	2939.2	2945.6	2945.6	2950.4	2944.5	2946.5	2932.4	2912.0
5°	2744.8	2733.6	2749.7	2785.2	2828.9	2866.3	2921.7	2950.9	2953.8	2954.3	2930.4
7.5°	2547.5	2537.3	2561.2	2603.0	2659.3	2728.8	2825.5	2910.1	2914.9	2960.6	2943.1
10°	2387.2	2379.9	2407.6	2452.3	2518.3	2596.1	2714.7	2832.3	2846.4	2947.4	2941.1
12.5°	2259.8	2254.0	2280.2	2331.8	2399.3	2485.4	2609.3	2745.8	2764.7	2917.9	2931.5
15°	2167.0	2166.1	2187.8	2237.4	2312.3	2392.4	2519.4	2665.6	2687.5	2885.7	2930.0
17.5°	2118.4	2119.8	2135.9	2178.2	2242.3	2322.0	2443.6	2598.1	2621.8	2857.1	2937.3
20°	2113.5	2115.0	2123.8	2147.5	2199.6	2270.0	2381.8	2541.2	2566.0	2835.7	2948.9
22.5°	2156.3	2155.3	2157.8	2155.3	2184.5	2237.9	2341.0	2497.5	2526.1	2821.7	2958.2
25°	2238.5	2237.0	2236.0	2218.0	2198.6	2227.3	2324.0	2472.7	2499.9	2811.4	2963.5
27.5°	2352.6	2351.7	2350.2	2320.6	2262.2	2244.3	2325.9	2463.5	2486.3	2803.2	2962.6
30°	2502.8	2509.6	2507.7	2466.4	2375.4	2296.3	2346.3	2458.6	2478.5	2787.1	2952.3
32.5°	2679.2	2692.9	2703.5	2659.3	2545.6	2399.3	2393.5	2463.9	2478.5	2775.0	2933.9
35°	2862.4	2879.9	2919.3	2903.8	2754.0	2554.3	2474.6	2496.0	2508.2	2781.7	2925.1
37.5°	3042.7	3063.6	3149.1	3194.4	3027.2	2759.4	2601.0	2575.3	2581.5	2823.1	2934.9
40°	3252.2	3283.7	3413.6	3486.5	3353.3	3034.0	2790.0	2711.3	2713.7	2913.9	2980.0
42.5°	3527.2	3559.8	3700.3	3814.5	3720.7	3381.0	3046.6	2919.3	2916.9	3084.0	3086.5
45°	3862.6	3896.6	4041.9	4168.7	4126.5	3792.1	3375.1	3223.1	3220.1	3352.3	3288.2
47.5°	4242.6	4276.1	4405.9	4536.6	4582.4	4272.3	3793.6	3637.6	3630.8	3725.1	3599.7
50°	4568.7	4590.6	4710.1	4886.1	5092.1	4862.2	4314.1	4163.9	4156.6	4220.2	4057.0
52.5°	4687.3	4700.0	4821.4	5067.8	5582.0	5661.2	4997.9	4804.4	4799.1	4826.8	4665.9
55°	4447.2	4470.1	4619.3	4984.7	5847.4	6564.2	5861.0	5597.6	5557.2	5497.4	5302.6
57.5°	3793.1	3829.5	3989.9	4475.9	5723.4	7280.5	7129.3	6494.7	6435.4	6069.9	5820.1
60°	2842.0	2886.8	3019.9	3544.2	5062.0	7535.6	8515.4	7494.3	7360.7	6525.8	6295.9
62.5°	1950.3	1972.6	2063.0	2404.7	3728.0	7117.7	9674.9	8833.2	8589.3	7021.5	6810.5
65°	1489.5	1497.3	1534.2	1651.8	2220.0	5781.7	10136.2	10599.7	10304.8	7614.4	7344.7
67.5°	1200.4	1194.1	1245.1	1413.2	1486.6	3527.2	9598.2	12271.0	12133.0	8407.0	7882.2
69°	1058.5	1049.7	1101.7	1297.1	1396.2	2331.8	8580.5	12650.6	12659.4	8825.4	7919.1
70°	952.5	958.4	1009.8	1228.1	1365.6	1830.2	7608.5	12553.9	12622.9	8981.9	7697.5
72.5°	636.2	651.7	755.2	1019.6	1313.1	1385.0	4594.0	10772.8	11038.2	8629.6	6604.0
75°	358.7	370.3	493.3	768.8	1237.3	1319.0	2426.5	7936.6	8193.2	7216.3	5092.6
77.5°	175.9	182.2	279.0	496.2	1034.6	1256.7	1376.3	5391.0	5684.1	4710.1	2880.5
80°	74.4	77.8	139.5	306.1	739.7	1199.4	1022.1	3317.8	3354.3	1845.3	767.4
82.5°	28.7	29.7	58.8	191.0	470.0	935.1	854.8	1573.1	1535.3	347.5	174.9
85°	3.4	3.9	21.4	114.7	261.4	481.2	694.5	678.0	627.4	69.0	89.9
87.5°	0.0	0.0	1.5	34.9	77.8	225.5	361.1	281.3	253.6	22.4	46.7
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°	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3	2902.3
2.5°	2895.0	2890.1	2863.9	2826.0	2790.0	2745.3	2702.5	2676.8	2656.4	2642.8	2658.8
5°	2902.7	2881.4	2801.6	2699.6	2599.5	2486.8	2381.8	2292.9	2257.8	2219.0	2236.5
7.5°	2900.4	2860.0	2716.6	2534.9	2351.2	2161.2	1981.4	1842.8	1770.9	1700.5	1718.4
10°	2888.2	2820.2	2603.0	2333.6	2058.6	1785.5	1530.4	1336.5	1228.1	1129.9	1144.0
12.5°	2861.5	2766.7	2468.8	2103.3	1735.4	1375.4	1076.5	828.1	695.0	636.2	643.5
15°	2845.4	2714.7	2326.9	1870.1	1390.4	957.9	658.0	489.4	428.6	409.2	411.6
17.5°	2837.6	2664.7	2180.1	1603.3	1037.6	609.9	425.3	375.2	362.0	358.7	359.6
20°	2829.8	2614.1	2029.0	1339.4	714.9	410.1	349.5	334.8	330.0	325.6	326.5
22.5°	2816.8	2565.5	1866.7	1072.0	482.1	332.9	314.9	300.8	290.6	285.3	286.2
25°	2800.7	2514.5	1701.0	798.5	351.9	296.9	279.9	260.0	247.8	238.1	238.6
27.5°	2775.0	2451.8	1529.9	581.2	295.4	265.8	243.0	221.1	200.7	189.6	189.6
30°	2739.0	2380.8	1339.9	416.0	264.8	235.2	207.5	180.3	158.5	148.2	147.3
32.5°	2699.2	2307.0	1147.8	315.4	240.6	206.6	174.9	146.3	126.8	118.6	118.1
35°	2665.2	2227.3	956.4	264.3	216.2	178.9	144.3	120.1	104.5	97.7	97.2
37.5°	2643.3	2147.5	769.8	236.2	194.4	153.1	121.0	99.1	87.9	82.6	82.1
40°	2639.9	2088.3	599.2	214.8	174.0	130.2	101.1	84.1	73.8	68.0	67.5
42.5°	2684.0	2054.3	459.7	196.8	153.1	110.3	86.0	72.0	61.2	55.4	55.0
45°	2800.2	2065.0	353.8	180.7	132.2	93.3	72.9	59.7	50.1	45.7	44.7
47.5°	3012.1	2138.8	281.3	164.8	112.3	79.2	62.2	49.6	41.3	36.9	36.4
50°	3389.2	2312.3	235.2	147.3	93.8	67.5	51.5	40.3	33.5	29.7	29.1
52.5°	3889.8	2621.4	210.0	130.2	77.8	57.3	42.3	32.0	26.2	23.3	22.8
55°	4441.9	2995.6	193.4	111.8	63.7	47.6	33.5	25.3	20.4	17.9	17.0
57.5°	4980.9	3319.7	177.8	93.8	53.0	38.9	26.8	19.9	16.1	13.6	13.2
60°	5476.0	3617.7	159.9	75.3	43.2	30.6	20.9	15.6	12.7	10.2	10.2
62.5°	6006.3	3848.0	135.1	58.8	35.5	23.3	17.0	14.1	10.2	8.7	8.3
65°	6568.1	4019.1	106.0	45.7	27.7	17.5	14.1	14.6	8.3	6.3	5.8
67.5°	6983.1	3985.1	78.3	36.0	21.4	13.6	13.6	15.6	7.3	4.9	4.4
69°	6891.7	3708.5	65.6	31.1	18.5	11.6	12.7	15.6	6.8	4.4	3.9
70°	6626.9	3402.4	57.9	27.7	16.5	10.7	12.1	15.0	6.3	4.4	3.9
72.5°	5518.8	2562.6	45.2	20.9	13.2	8.7	10.2	13.2	6.3	4.4	3.4
75°	4151.3	1640.2	34.5	15.0	9.7	6.8	7.8	9.7	6.3	3.9	3.4
77.5°	2258.9	591.4	24.8	10.2	6.8	5.4	5.4	7.3	5.8	2.9	2.0
80°	580.7	148.7	15.6	6.8	5.4	3.9	3.4	4.9	3.4	0.5	0.0
82.5°	143.4	33.5	8.3	4.9	3.9	1.5	1.5	2.4	1.5	0.0	0.0
85°	78.7	16.5	5.4	3.4	2.0	0.0	0.0	0.5	0.0	0.0	0.0
87.5°	40.3	4.9	1.5	0.9	0.5	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)