

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: P387060

Luminaire Tested: GAW-SA2D-740-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-740-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13143 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

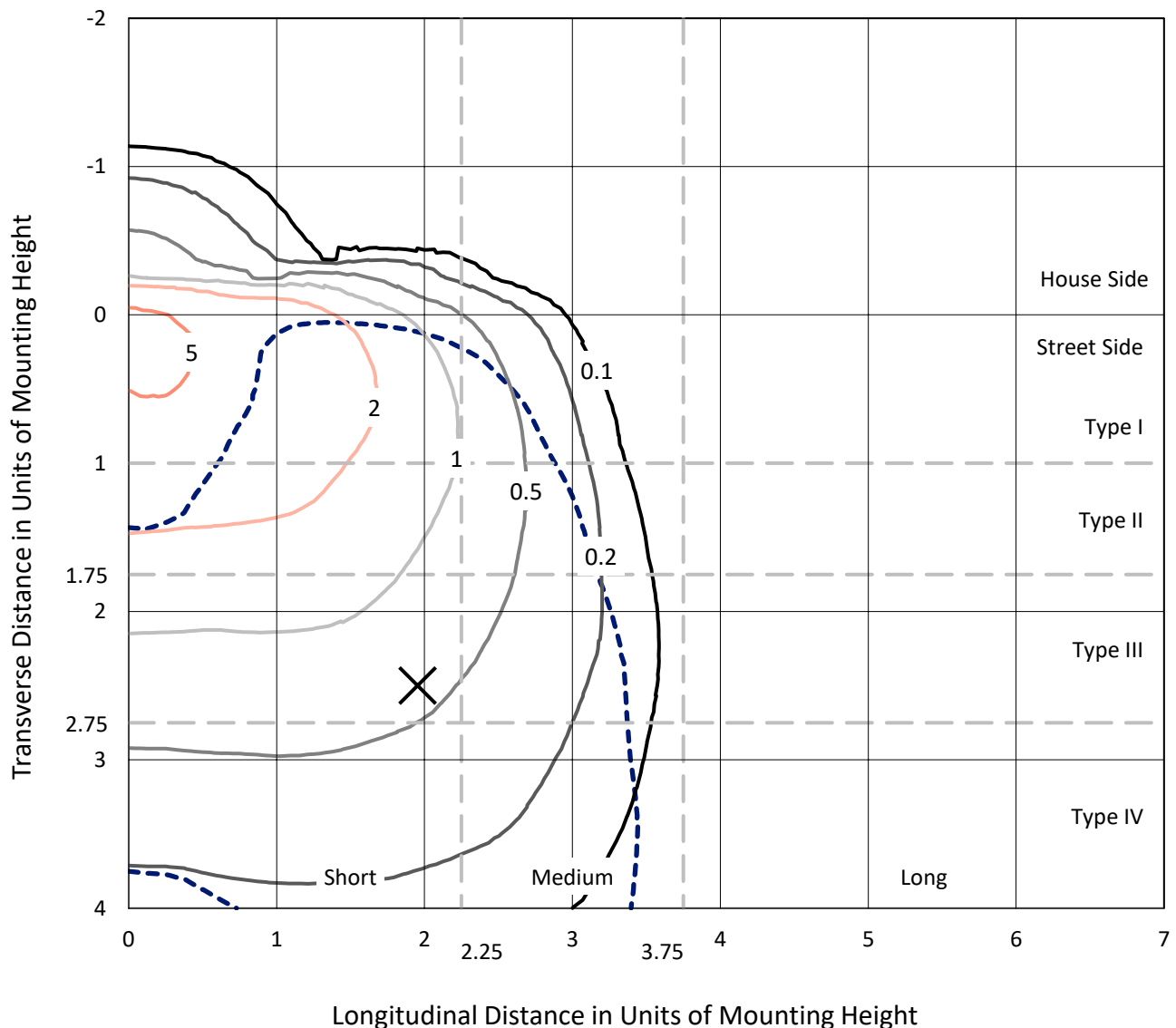
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

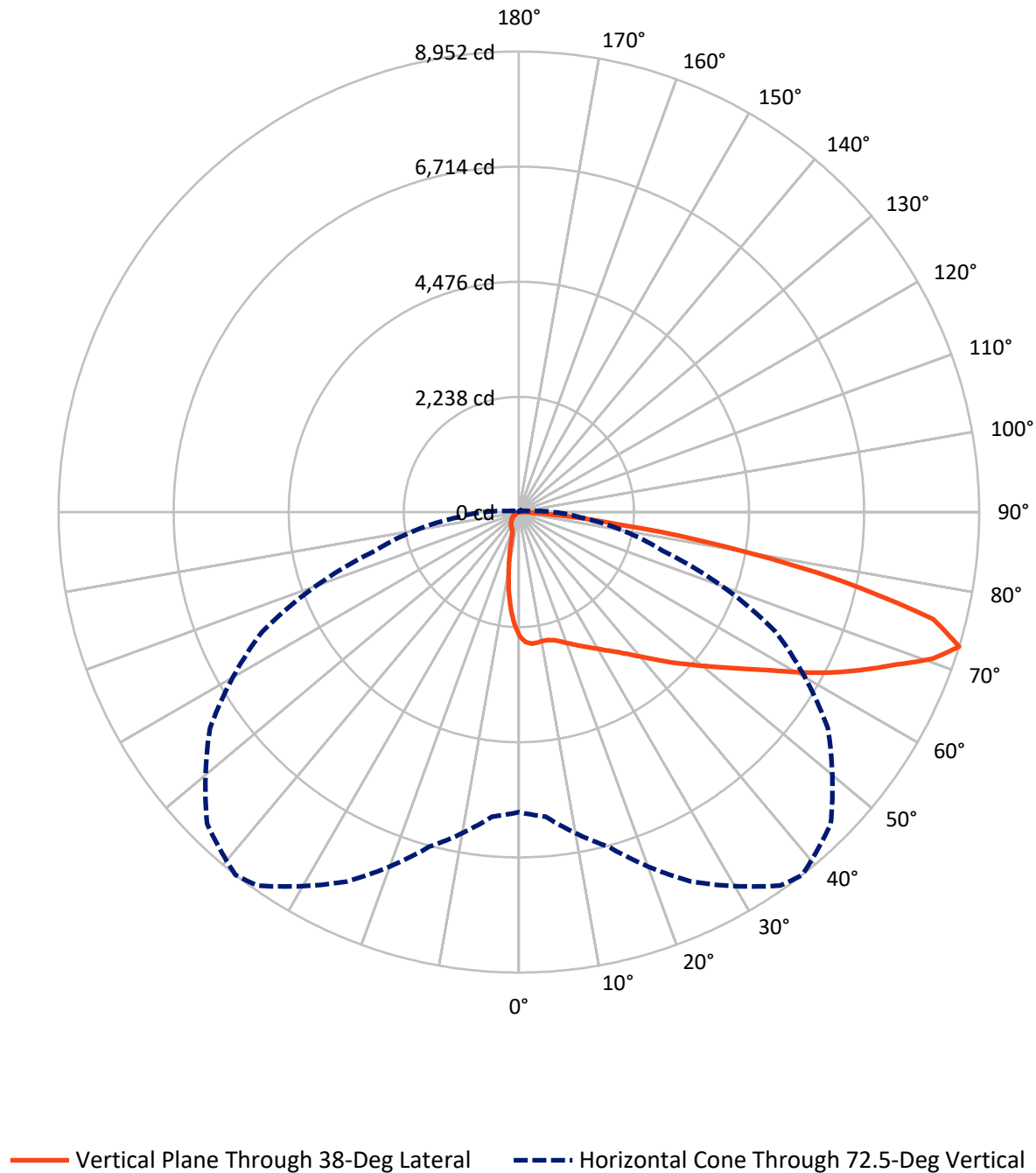
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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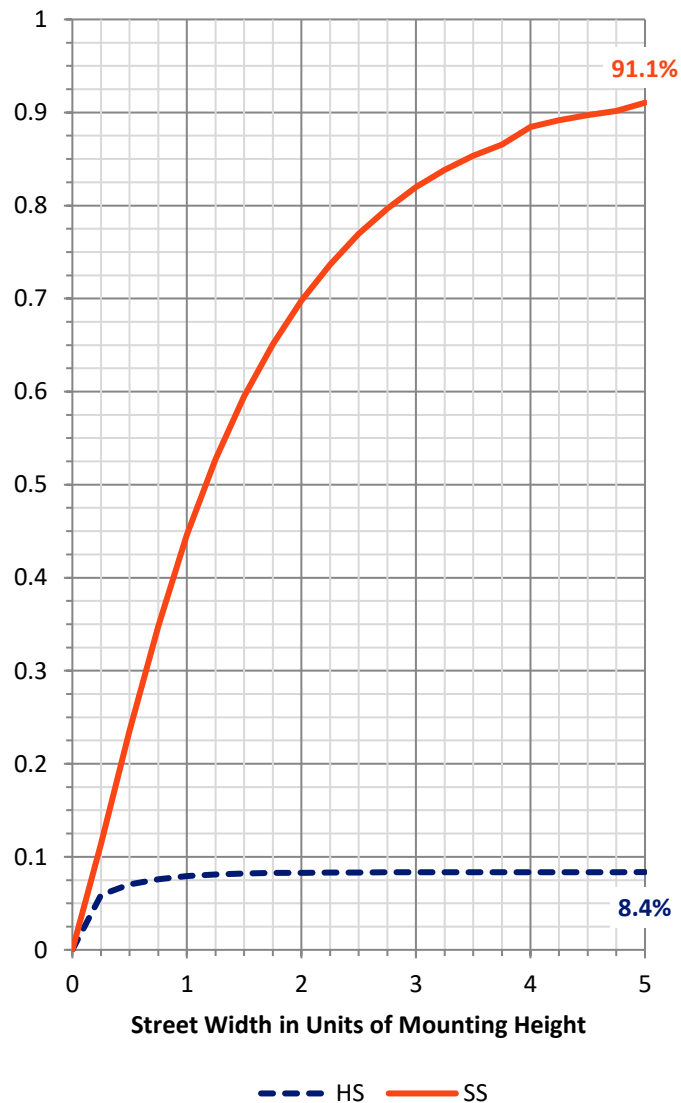
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1106.0	0.0	1106.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12037.0	0.0	12037.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	13143.0	0.0	13143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	1.6
10°-20°	503.6	3.8
20°-30°	801.0	6.1
30°-40°	1204.3	9.2
40°-50°	1837.2	14.0
50°-60°	2596.6	19.8
60°-70°	3257.0	24.8
70°-80°	2435.3	18.5
80°-90°	302.0	2.3
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°	13143.0	100.0
0°-180°	13143.0	100.0

Coefficient of Utilization



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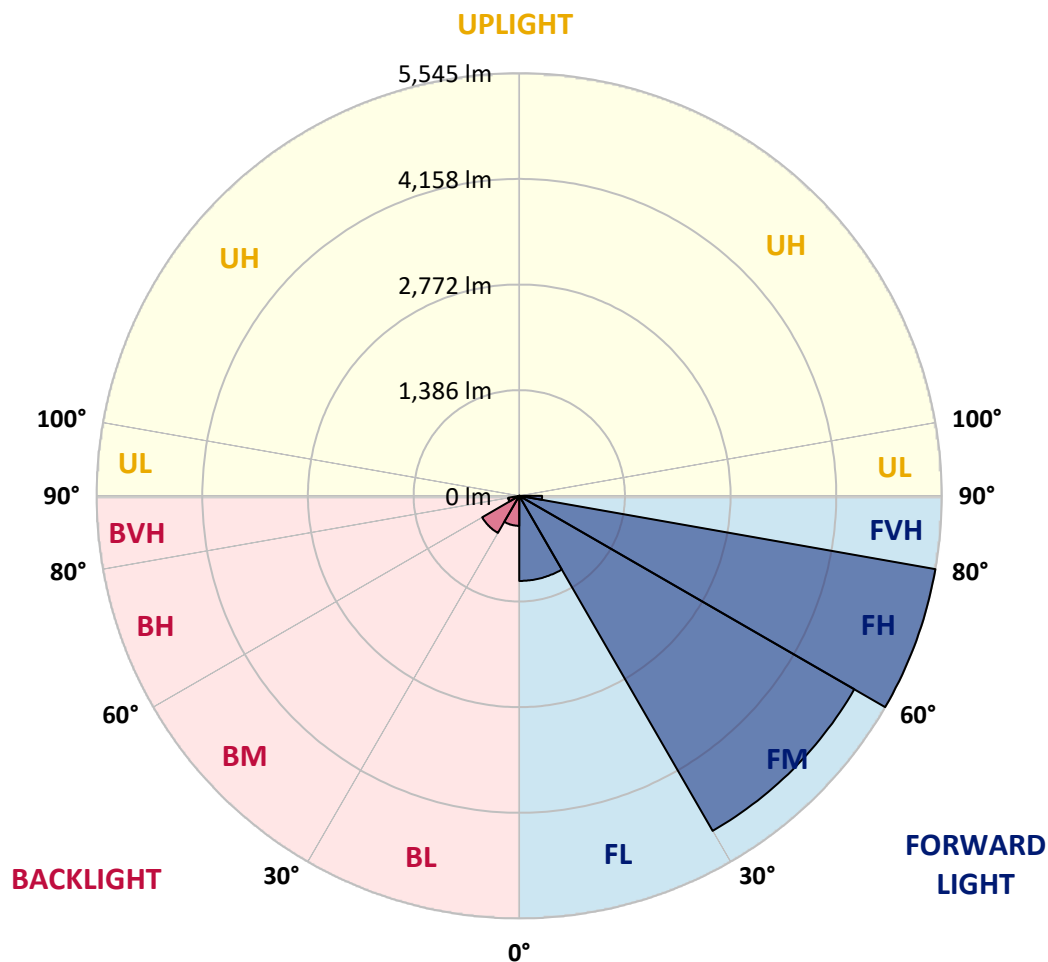
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1116.8	8.5			
FM	(30°-60°)	5076.4	38.6			
FH	(60°-80°)	5544.6	42.2			G3/7500
FVH	(80°-90°)	299.2	2.3			G3/500
BL	(0°-30°)	393.8	3.0	B1/500		
BM	(30°-60°)	561.7	4.3	B1/1000		
BH	(60°-80°)	147.7	1.1	B1/500		G1/500
BVH	(80°-90°)	2.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0
2.5°	2565.4	2566.0	2560.0	2550.1	2537.6	2531.0	2520.1	2502.7	2484.1	2450.8	2414.8
5°	2617.8	2617.8	2610.2	2597.1	2576.9	2570.9	2550.1	2522.3	2484.1	2430.1	2369.5
7.5°	2612.4	2613.5	2603.1	2589.4	2569.2	2563.8	2538.7	2507.6	2460.1	2394.6	2317.1
10°	2584.0	2586.7	2578.5	2572.0	2553.4	2547.4	2523.9	2492.8	2445.3	2375.5	2286.5
12.5°	2555.1	2557.8	2560.5	2566.5	2555.1	2552.9	2534.3	2508.1	2462.8	2390.2	2289.8
15°	2536.5	2542.0	2561.6	2585.1	2587.8	2585.6	2573.6	2549.0	2503.2	2427.9	2313.2
17.5°	2536.5	2545.2	2586.2	2630.9	2646.8	2648.4	2638.0	2603.6	2549.0	2468.3	2335.1
20°	2557.8	2569.8	2633.7	2697.0	2723.2	2723.2	2703.0	2654.9	2591.1	2504.8	2349.8
22.5°	2612.4	2628.2	2708.4	2781.6	2809.4	2803.4	2776.1	2706.2	2634.7	2546.3	2368.4
25°	2719.9	2731.9	2815.4	2889.1	2906.0	2892.4	2858.0	2768.5	2690.4	2602.5	2402.2
27.5°	2858.5	2860.2	2946.4	3008.6	2998.3	2989.0	2945.9	2846.5	2770.7	2682.8	2460.6
30°	3010.8	3010.8	3086.7	3134.2	3102.5	3094.9	3051.8	2941.0	2873.3	2791.9	2543.6
32.5°	3158.2	3164.7	3226.4	3256.4	3221.0	3213.3	3171.3	3060.5	3009.7	2958.4	2673.0
35°	3300.7	3305.6	3364.0	3380.4	3346.5	3348.7	3318.7	3224.8	3205.7	3199.1	2867.8
37.5°	3438.8	3439.8	3499.3	3509.7	3492.8	3511.4	3514.1	3431.1	3466.6	3519.5	3142.4
40°	3564.8	3565.9	3624.9	3651.6	3680.6	3704.6	3725.9	3681.7	3799.0	3921.8	3469.3
42.5°	3665.8	3677.3	3752.1	3802.8	3879.2	3925.1	3983.0	3980.8	4194.7	4379.2	3864.5
45°	3754.8	3774.4	3878.7	3967.7	4098.7	4171.8	4262.4	4333.4	4640.1	4888.5	4264.6
47.5°	3872.1	3890.7	4009.7	4155.4	4330.1	4426.2	4576.3	4729.7	5129.8	5388.5	4655.4
50°	4037.5	4029.3	4146.7	4355.8	4580.1	4706.2	4920.2	5149.9	5615.5	5824.1	4885.2
52.5°	4213.8	4210.6	4297.4	4573.5	4874.8	5022.2	5305.0	5584.4	6080.0	6124.3	4990.6
55°	4432.2	4408.7	4481.8	4821.9	5224.7	5383.0	5716.0	6014.5	6450.1	6293.5	5043.5
57.5°	4660.9	4622.1	4692.0	5098.6	5619.4	5806.6	6171.2	6433.7	6696.3	6409.2	5043.0
60°	4897.2	4851.4	4934.3	5444.7	6109.5	6326.2	6664.6	6717.0	6926.1	6467.6	5005.8
62.5°	5094.8	5067.5	5190.9	5814.8	6657.0	6869.9	7037.4	6974.7	7119.9	6512.9	4919.1
65°	5303.9	5305.5	5504.7	6246.5	7238.9	7382.4	7396.6	7308.7	7282.0	6503.6	4625.4
67.5°	5586.6	5612.8	5945.2	6832.8	7804.9	7915.7	7914.6	7670.6	7400.4	6134.6	3974.2
70°	5885.7	5947.4	6452.9	7503.6	8422.8	8535.2	8477.4	7901.0	6968.1	4960.5	2812.7
72.5°	5835.5	5942.5	6735.0	7926.6	8866.5	8952.2	8576.1	7334.9	5507.5	2883.1	1197.6
75°	4502.0	4625.9	6175.6	7507.4	8400.9	8324.0	7368.8	5707.8	3009.7	804.6	269.6
77.5°	2378.2	2444.2	4079.6	5719.3	6550.6	6389.5	5190.9	3166.4	917.5	199.2	121.2
80°	1245.6	1260.9	1777.8	3245.0	4043.0	4044.1	3076.3	1390.8	378.3	102.1	81.3
82.5°	667.0	680.1	939.4	1499.4	2118.4	1920.2	1177.9	765.3	220.0	57.9	78.1
85°	160.5	163.2	532.7	685.0	832.9	595.0	349.9	642.4	59.5	33.8	63.3
87.5°	61.7	62.8	197.6	296.4	212.3	137.6	163.8	239.6	7.6	13.1	9.8
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°	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0	2417.0
2.5°	2392.9	2378.7	2343.8	2299.6	2260.3	2231.9	2189.3	2161.5	2142.9	2142.4	2135.3
5°	2332.4	2303.4	2228.1	2138.6	2057.2	1984.1	1897.9	1829.6	1778.9	1770.7	1753.2
7.5°	2267.4	2219.9	2104.2	1964.5	1828.0	1689.4	1528.3	1428.4	1342.8	1301.8	1297.4
10°	2227.5	2161.0	1996.7	1794.7	1580.7	1355.3	1144.6	998.9	893.5	863.5	841.1
12.5°	2219.4	2131.5	1913.7	1635.3	1329.7	1031.6	798.6	643.5	559.5	532.7	525.6
15°	2227.5	2117.8	1843.8	1477.6	1075.3	732.0	536.0	445.9	414.3	406.6	406.1
17.5°	2232.5	2101.5	1764.7	1302.4	828.6	522.9	410.5	384.3	379.4	378.8	379.9
20°	2231.9	2076.4	1670.3	1107.0	616.2	411.0	371.2	365.7	364.6	365.2	364.6
22.5°	2228.1	2046.9	1566.5	905.5	465.6	367.3	354.2	351.0	350.4	350.4	350.4
25°	2235.2	2023.4	1452.5	712.9	383.7	347.2	339.0	336.2	335.7	335.7	334.6
27.5°	2260.8	2010.3	1327.5	548.6	346.6	329.1	322.6	322.0	320.4	319.9	321.0
30°	2302.3	2010.3	1190.5	426.8	324.2	310.6	305.7	304.6	304.0	303.5	304.0
32.5°	2375.5	2025.6	1040.9	354.8	302.9	289.8	286.6	288.2	286.6	286.6	286.6
35°	2507.6	2071.4	884.3	309.5	280.6	269.6	266.4	268.6	267.5	267.5	266.9
37.5°	2700.2	2156.6	726.5	282.2	260.9	249.4	245.1	248.4	247.3	247.3	246.7
40°	2935.0	2280.5	576.4	261.5	241.8	229.8	226.0	227.6	224.9	224.9	226.0
42.5°	3224.8	2437.7	445.4	241.3	222.7	211.2	209.1	207.4	202.5	199.8	200.3
45°	3546.8	2601.4	347.2	221.6	204.7	195.4	192.1	187.8	179.6	174.1	174.7
47.5°	3834.5	2727.5	282.2	202.5	188.3	181.2	176.3	168.1	156.1	149.6	150.1
50°	3985.7	2746.6	240.2	183.4	173.0	165.9	158.8	146.3	132.1	125.0	124.5
52.5°	4024.4	2657.1	209.1	165.9	157.7	149.6	140.3	123.4	107.5	99.9	98.8
55°	4038.6	2520.7	181.2	149.6	141.4	132.1	120.1	101.0	86.2	78.6	78.1
57.5°	3991.7	2317.1	159.4	134.8	125.0	113.5	98.8	80.8	66.6	60.6	60.6
60°	3887.4	2041.4	142.5	119.0	108.1	95.0	79.7	62.8	49.7	44.8	44.8
62.5°	3679.5	1684.4	126.6	102.6	92.2	78.6	64.4	47.5	34.9	32.2	32.8
65°	3287.0	1277.8	110.8	87.9	78.6	65.0	50.2	33.8	23.5	23.5	24.6
67.5°	2680.6	887.5	94.4	74.8	67.7	52.9	38.2	23.5	16.4	18.6	20.7
70°	1774.5	497.8	80.8	61.7	57.9	42.0	28.4	15.8	13.1	17.5	21.3
72.5°	669.7	193.8	67.7	49.7	50.2	32.2	20.2	12.0	12.0	19.1	25.1
75°	186.7	95.0	48.6	36.6	39.3	23.5	14.7	10.4	11.5	21.8	29.5
77.5°	109.7	69.9	31.7	21.3	26.7	16.4	9.8	8.2	9.8	18.6	28.4
80°	88.4	37.1	18.6	10.9	14.7	9.3	6.6	4.9	2.7	7.1	14.7
82.5°	88.4	22.4	8.7	7.6	7.6	4.9	3.3	2.2	0.5	0.0	3.8
85°	59.5	9.3	5.5	4.9	3.8	1.6	1.1	0.5	0.0	0.0	0.0
87.5°	9.8	3.8	2.2	1.1	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)