

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: P323427

Luminaire Tested: **GAN-SA3A-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10165 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

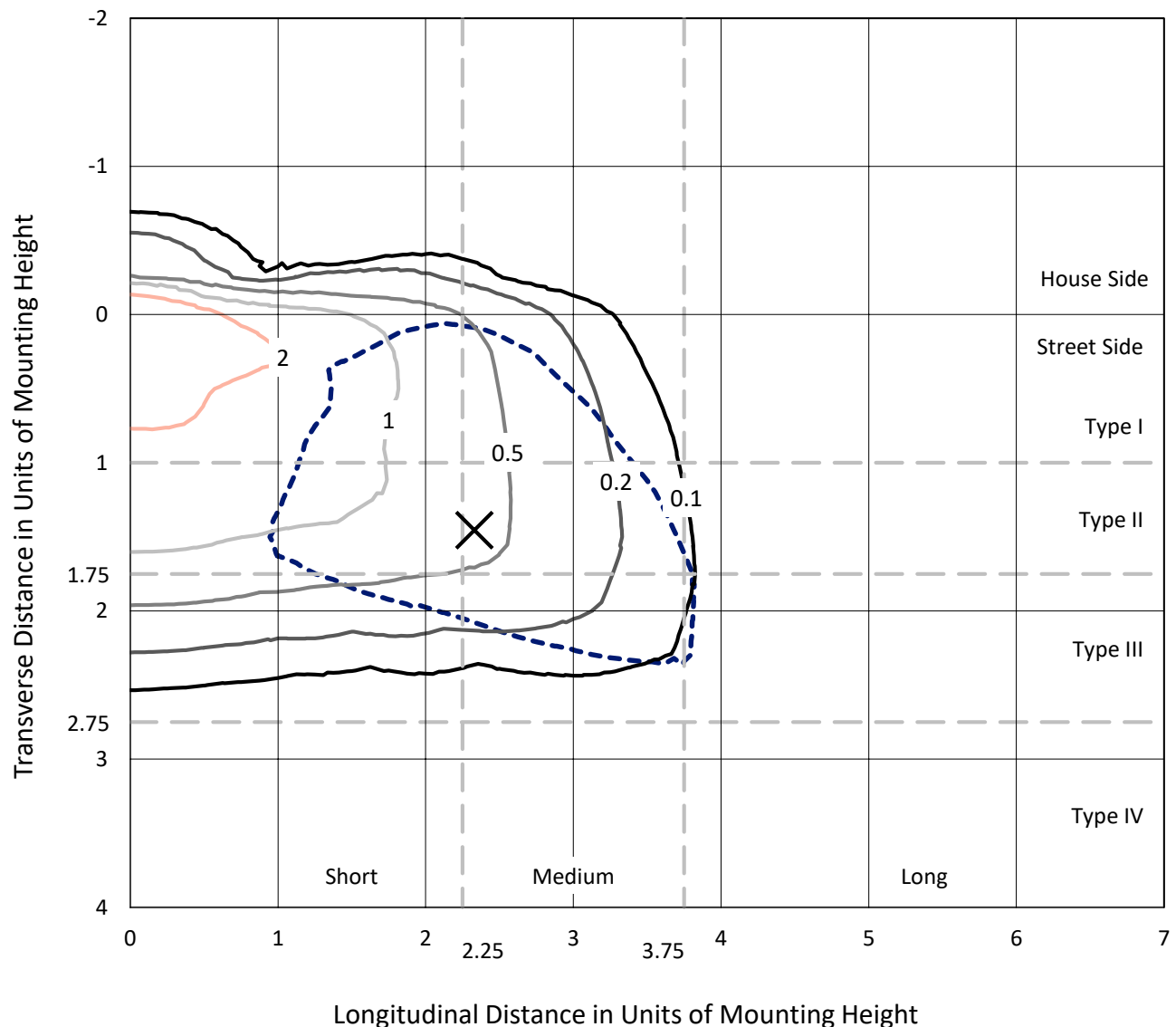


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Iso-Footcandle Lines of Horizontal Illumination

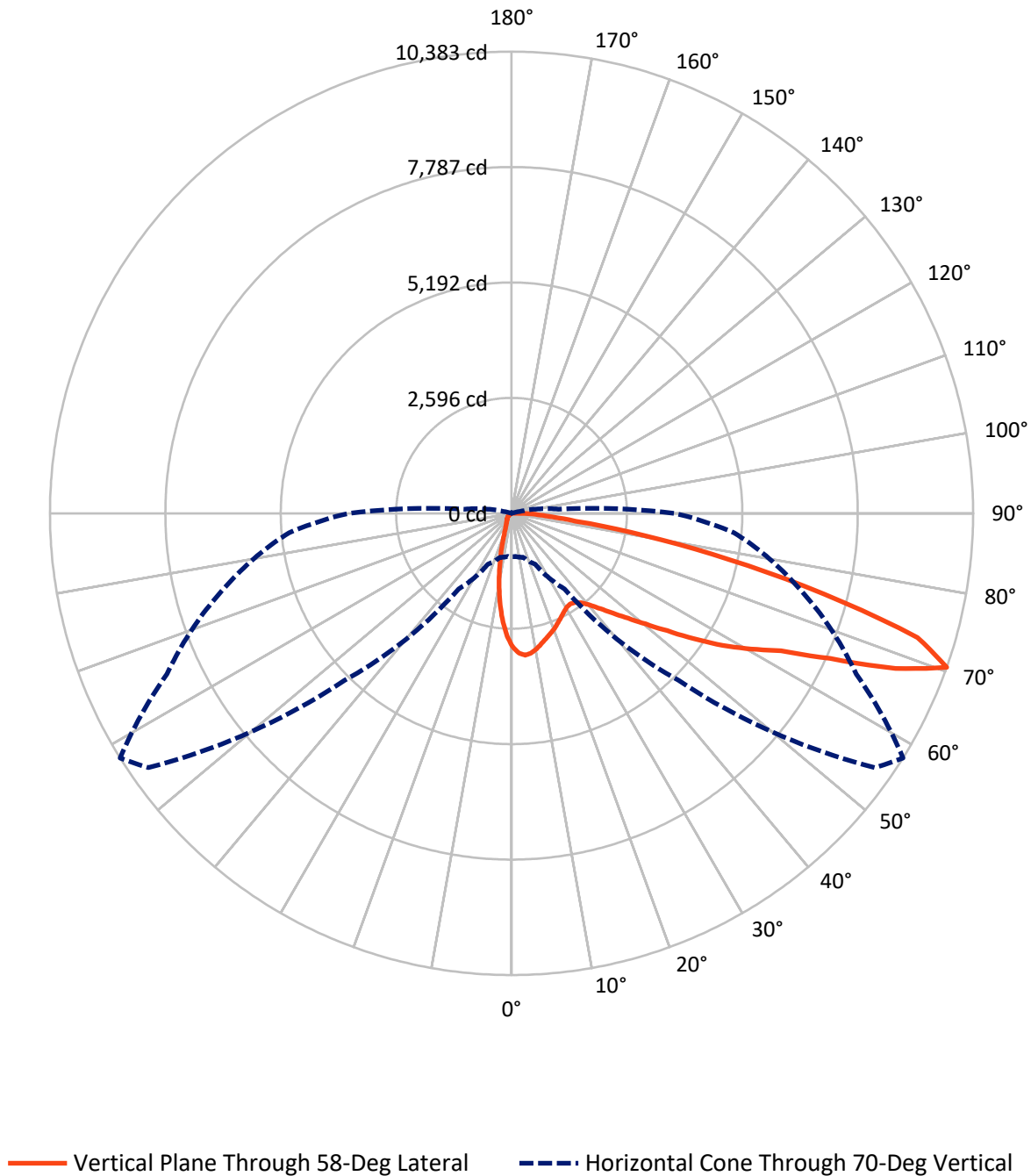
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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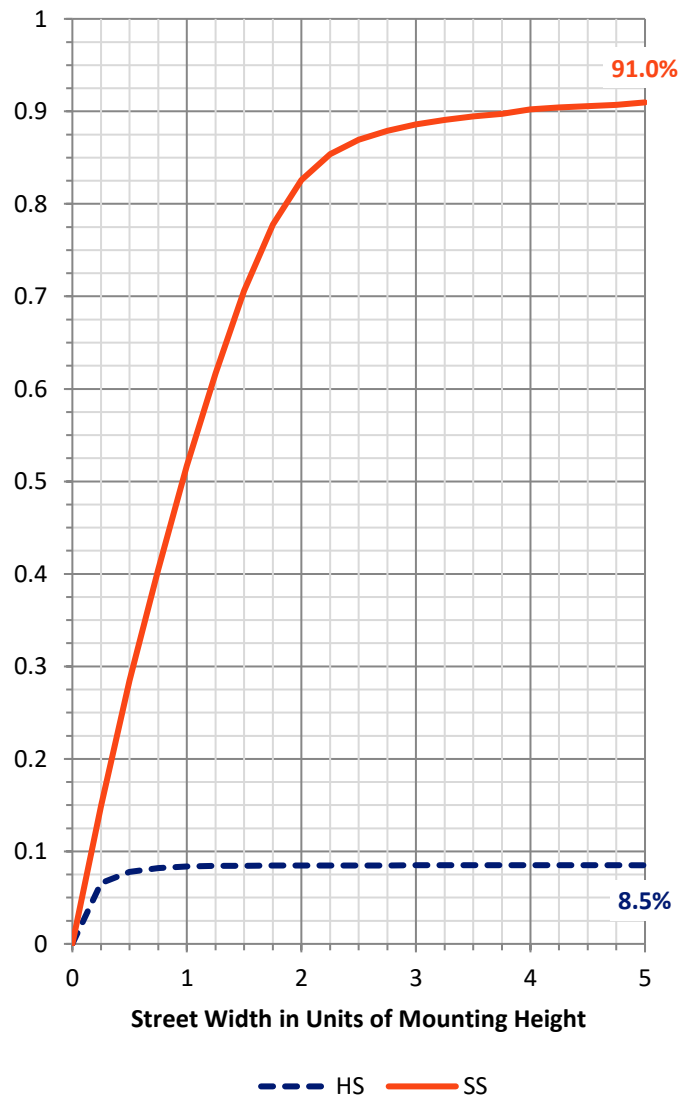
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	869.9	0.0	869.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	9295.1	0.0	9295.1
	% Fixture	91.4	0.0	91.4
Total	Lumens	10165.0	0.0	10165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.5	2.4
10°-20°	515.3	5.1
20°-30°	677.5	6.7
30°-40°	897.3	8.8
40°-50°	1341.1	13.2
50°-60°	2148.4	21.1
60°-70°	2708.1	26.6
70°-80°	1460.7	14.4
80°-90°	171.0	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°	10165.0	100.0
0°-180°	10165.0	100.0

Coefficient of Utilization



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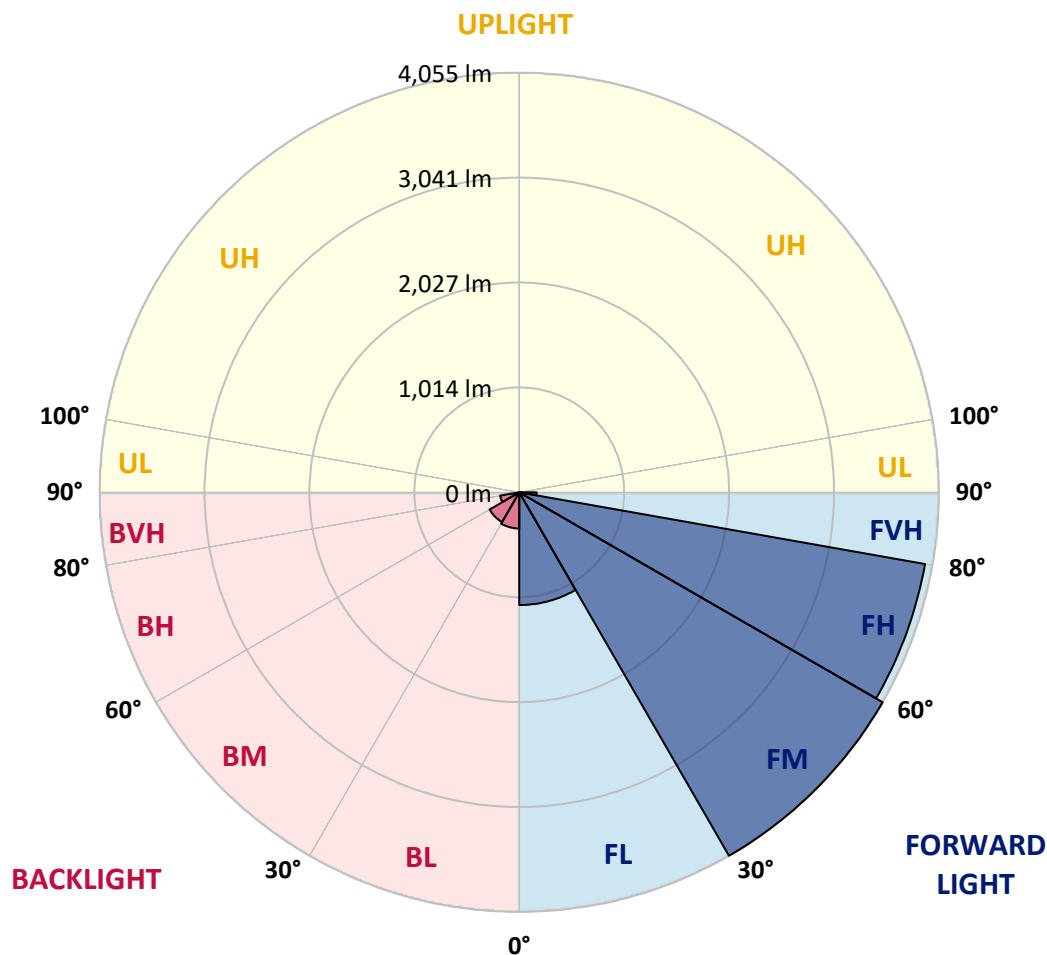
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1088.9	10.7			
FM	(30°-60°)	4055.0	39.9			
FH	(60°-80°)	3981.7	39.2			G2/5000
FVH	(80°-90°)	169.5	1.7			G2/225
BL	(0°-30°)	349.5	3.4	B1/500		
BM	(30°-60°)	331.9	3.3	B1/1000		
BH	(60°-80°)	187.1	1.8	B1/500		G1/500
BVH	(80°-90°)	1.5	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°	58°	65°	75°	85°
0°	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7
2.5°	3251.6	3243.6	3240.7	3235.6	3216.1	3197.1	3159.5	3148.9	3125.3	3069.1	3009.5
5°	3254.2	3253.8	3262.6	3260.5	3253.8	3244.9	3217.8	3203.9	3163.7	3083.4	2974.4
7.5°	3097.4	3105.4	3125.3	3141.3	3159.9	3184.0	3187.4	3173.9	3140.9	3054.3	2909.7
10°	2886.9	2899.6	2927.5	2959.2	3007.8	3056.0	3099.1	3097.4	3086.0	3000.6	2831.9
12.5°	2676.0	2690.8	2722.9	2769.8	2838.7	2917.3	2994.2	3004.8	3023.8	2952.4	2760.1
15°	2491.3	2503.9	2535.6	2593.1	2678.5	2784.2	2897.0	2916.5	2965.5	2914.8	2700.1
17.5°	2334.4	2342.5	2365.7	2429.5	2528.5	2656.5	2803.2	2841.2	2914.4	2885.2	2648.1
20°	2225.0	2226.2	2241.5	2286.3	2385.2	2528.5	2706.0	2760.5	2860.3	2859.8	2594.4
22.5°	2170.9	2166.6	2169.6	2195.4	2268.1	2406.3	2608.8	2673.4	2811.6	2838.3	2539.9
25°	2160.7	2157.3	2148.9	2152.3	2196.2	2299.4	2510.7	2585.5	2769.0	2825.2	2492.5
27.5°	2192.4	2195.8	2181.4	2166.2	2169.6	2230.0	2423.6	2510.3	2734.3	2825.2	2459.1
30°	2256.2	2257.9	2247.4	2227.5	2200.9	2210.6	2363.2	2449.8	2717.0	2844.6	2438.0
32.5°	2326.8	2336.1	2334.9	2318.8	2280.8	2241.5	2348.8	2427.9	2715.7	2887.7	2435.9
35°	2414.3	2424.9	2442.6	2439.3	2399.5	2334.9	2397.8	2460.0	2740.6	2958.7	2458.7
37.5°	2507.3	2523.4	2561.4	2579.6	2553.8	2480.7	2507.7	2552.1	2807.4	3073.7	2516.6
40°	2597.3	2615.5	2684.8	2756.3	2736.8	2661.6	2674.3	2709.8	2926.2	3239.0	2626.5
42.5°	2685.7	2712.7	2814.6	2932.1	2955.4	2895.3	2902.1	2930.4	3102.4	3466.4	2806.1
45°	2791.4	2821.8	2972.7	3117.7	3179.8	3153.6	3182.3	3200.9	3332.8	3766.9	3048.3
47.5°	2946.5	2981.6	3166.7	3332.0	3441.0	3457.9	3515.8	3528.1	3624.0	4116.9	3364.1
50°	3249.1	3258.8	3426.2	3576.3	3733.5	3834.9	3900.9	3910.2	3976.5	4499.4	3758.4
52.5°	3629.9	3636.3	3731.0	3831.6	4010.4	4217.5	4371.7	4384.8	4398.8	4872.2	4147.7
55°	4008.2	4007.4	4070.0	4129.1	4333.7	4634.6	4969.4	4977.4	4877.3	5226.0	4445.3
57.5°	4244.5	4267.3	4362.4	4438.5	4724.3	5110.2	5574.7	5604.3	5379.8	5488.0	4739.5
60°	4169.3	4180.3	4391.2	4672.7	5210.8	5786.0	6187.1	6194.7	5757.7	5749.7	5111.4
62.5°	3552.2	3558.1	3889.5	4469.8	5457.2	6662.6	6926.0	6802.1	6192.2	6112.7	5556.5
65°	2434.6	2473.1	2749.9	3467.2	5004.5	7212.5	8069.7	7864.7	6854.5	6636.0	5958.9
67.5°	1433.7	1425.7	1562.6	2091.0	3675.6	6847.4	9516.6	9312.8	7757.8	6986.4	5841.0
70°	979.3	973.8	1026.3	1265.9	2074.9	5311.8	9971.8	10383.0	8555.4	6750.6	5026.9
72.5°	699.1	702.1	779.4	983.6	1302.7	3094.8	8575.3	9548.7	8305.6	5884.9	3821.0
75°	474.7	482.7	593.4	806.9	1142.1	1574.5	6085.3	7258.6	6763.2	4277.1	2196.2
77.5°	255.3	264.2	394.8	650.1	1032.6	1093.9	3914.4	4995.6	4248.3	1922.8	636.6
80°	106.5	111.6	184.7	472.6	892.3	960.7	2303.2	3029.3	1810.3	379.1	142.0
82.5°	46.1	48.6	76.9	281.9	667.0	811.1	1219.4	1457.4	548.6	83.3	71.4
85°	8.9	9.3	31.7	149.2	425.6	457.8	790.4	774.8	246.4	35.9	52.0
87.5°	0.0	0.0	7.6	46.9	125.1	249.4	482.3	476.4	83.7	17.3	19.4
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°	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7	3002.7
2.5°	2979.0	2949.9	2888.6	2812.9	2755.0	2691.2	2640.5	2576.2	2548.3	2549.6	2534.4
5°	2912.2	2852.2	2716.5	2545.4	2413.5	2277.4	2160.3	2043.6	1974.7	1952.3	1931.2
7.5°	2816.7	2721.6	2505.2	2241.5	2018.3	1800.2	1610.4	1443.4	1337.8	1286.2	1267.2
10°	2708.9	2575.4	2262.2	1914.7	1596.0	1301.0	1055.0	841.1	755.7	697.8	683.0
12.5°	2614.3	2433.3	2024.6	1579.5	1201.2	845.4	610.8	477.6	419.7	396.9	393.1
15°	2525.1	2300.6	1796.0	1276.1	831.8	520.3	388.4	343.2	329.7	325.9	325.9
17.5°	2441.0	2174.2	1572.4	977.2	550.3	364.8	321.7	311.5	307.3	306.9	307.3
20°	2353.0	2047.9	1352.6	716.0	384.2	309.0	297.1	291.6	290.4	290.4	290.4
22.5°	2268.9	1921.5	1138.7	511.4	308.1	281.9	276.0	272.2	270.9	270.5	269.7
25°	2188.2	1801.4	929.9	361.4	270.5	258.3	253.2	248.1	244.3	242.2	240.9
27.5°	2121.8	1694.5	735.5	290.0	244.3	233.7	227.4	219.8	210.5	206.3	204.6
30°	2069.0	1596.9	566.8	244.7	219.8	209.2	199.5	186.4	172.9	165.7	165.3
32.5°	2027.6	1500.9	430.3	216.4	197.8	184.7	170.8	154.3	138.6	130.6	130.2
35°	2007.3	1416.4	328.8	195.7	178.4	161.9	144.6	126.4	111.2	103.6	102.7
37.5°	2020.8	1345.0	256.6	178.4	161.9	142.9	122.6	103.6	90.0	83.3	82.8
40°	2070.3	1299.3	208.4	163.6	147.9	124.7	102.7	85.0	73.5	68.1	67.6
42.5°	2175.5	1282.4	177.9	151.3	134.4	107.8	85.4	70.2	59.6	55.8	54.9
45°	2351.3	1307.3	157.2	139.5	120.5	91.7	70.6	57.5	48.2	45.2	44.8
47.5°	2585.5	1372.9	142.4	128.1	107.8	77.3	58.8	46.5	39.3	36.4	35.9
50°	2887.3	1476.8	130.2	116.7	95.9	65.5	48.6	36.8	30.4	28.3	28.3
52.5°	3215.7	1600.7	119.2	106.1	84.1	54.5	39.3	28.3	24.1	21.6	21.6
55°	3487.1	1708.9	107.4	98.1	69.7	45.2	30.0	21.6	17.8	16.5	16.5
57.5°	3758.0	1824.3	93.8	84.1	55.8	36.8	22.8	16.1	13.1	12.3	12.3
60°	4109.3	1965.4	80.7	68.5	44.0	27.9	16.9	11.4	9.7	9.3	9.3
62.5°	4495.6	2048.3	68.9	54.9	34.2	20.7	12.3	7.6	7.2	7.2	6.8
65°	4731.9	1931.2	57.9	44.0	26.6	15.6	8.0	5.5	6.3	5.9	5.1
67.5°	4430.5	1511.9	47.3	34.2	20.7	11.8	5.1	3.8	6.8	5.5	4.2
70°	3668.4	1058.4	36.8	24.1	16.5	10.1	3.4	2.5	7.2	5.5	3.4
72.5°	2745.3	708.4	29.2	16.1	12.3	8.9	3.0	1.3	6.3	4.6	3.0
75°	1500.1	285.3	23.2	10.1	7.6	6.3	2.1	0.8	4.2	3.4	2.1
77.5°	394.8	75.2	16.9	6.8	4.2	2.5	1.3	0.4	2.1	1.7	0.8
80°	100.6	29.2	11.0	4.6	3.0	1.3	0.0	0.0	0.4	0.0	0.0
82.5°	53.7	12.3	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.6	8.0	3.8	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	2.5	1.3	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)