

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: P322310

Luminaire Tested: **GAN-SA6A-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322310
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-SA6A-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA 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: 20311 lumens
Efficiency: N/A
Efficacy: 105.2 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): 193
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

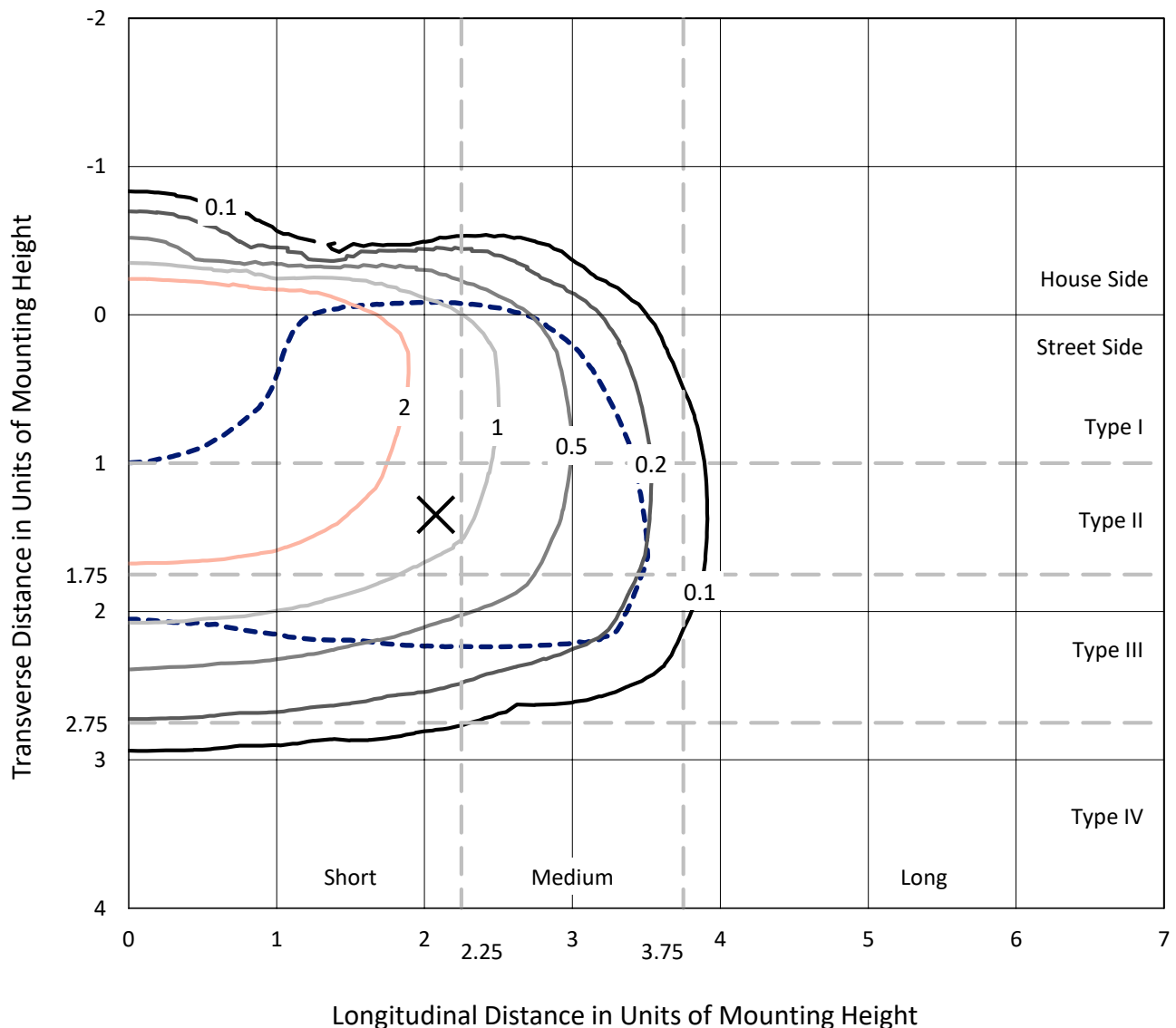


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Iso-Footcandle Lines of Horizontal Illumination

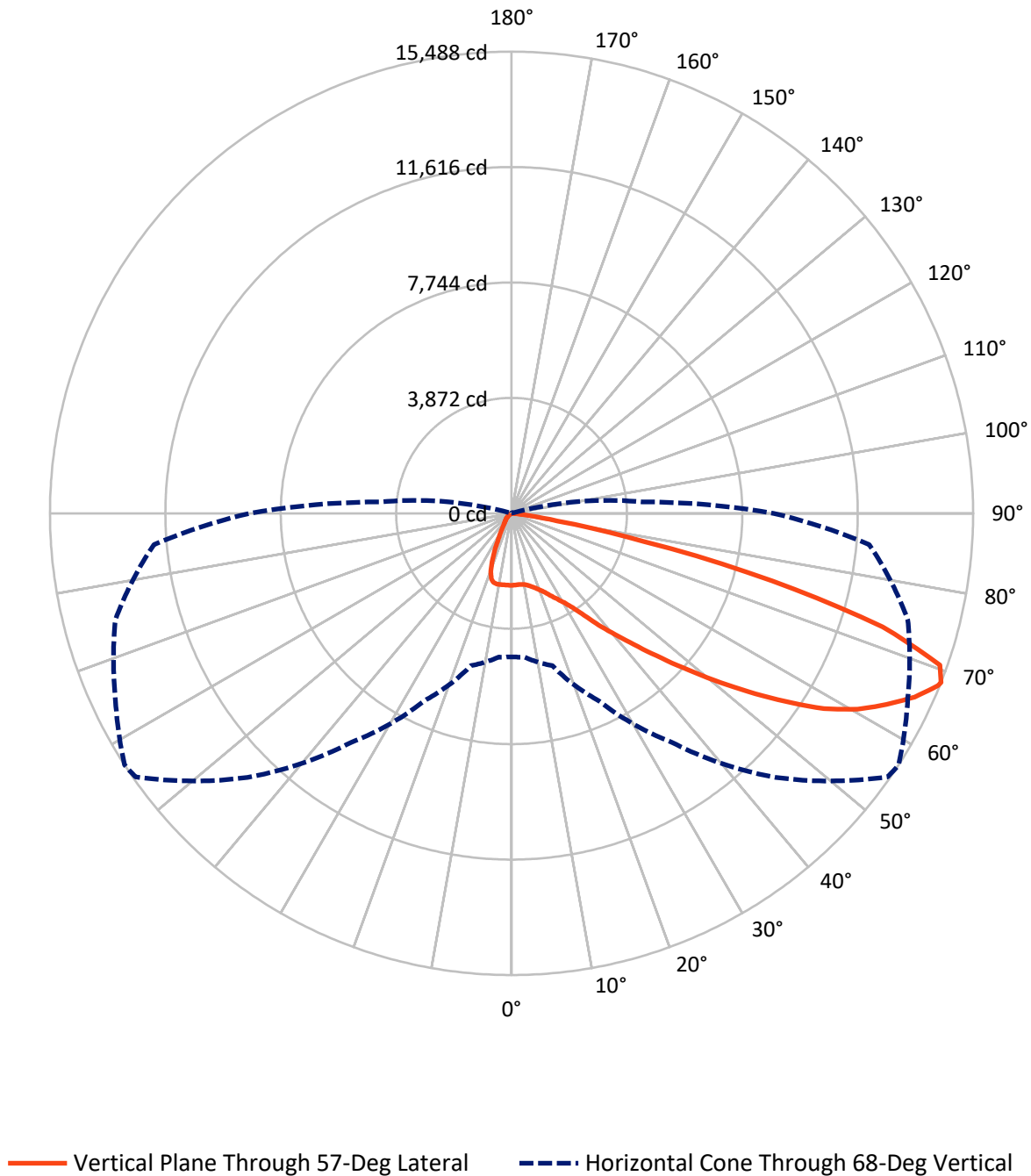
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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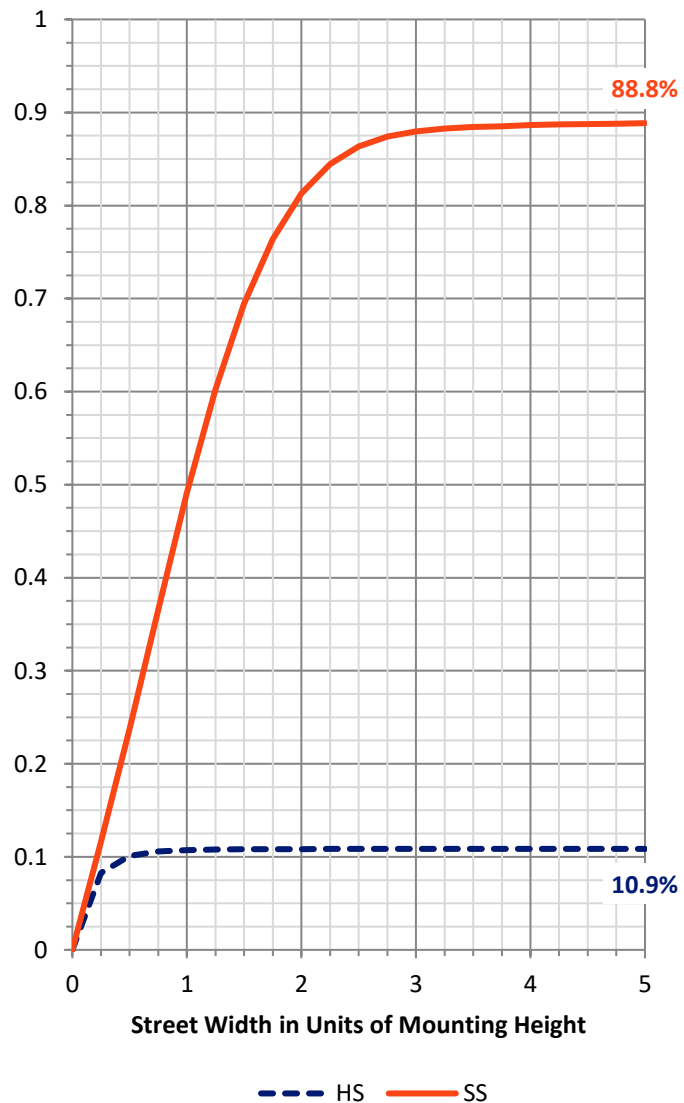
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2227.2	0.0	2227.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	18083.8	0.0	18083.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	20311.0	0.0	20311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	1.1
10°-20°	625.9	3.1
20°-30°	1079.7	5.3
30°-40°	1863.5	9.2
40°-50°	3187.6	15.7
50°-60°	5099.9	25.1
60°-70°	5892.4	29.0
70°-80°	2251.6	11.1
80°-90°	84.4	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°	20311.0	100.0
0°-180°	20311.0	100.0

Coefficient of Utilization



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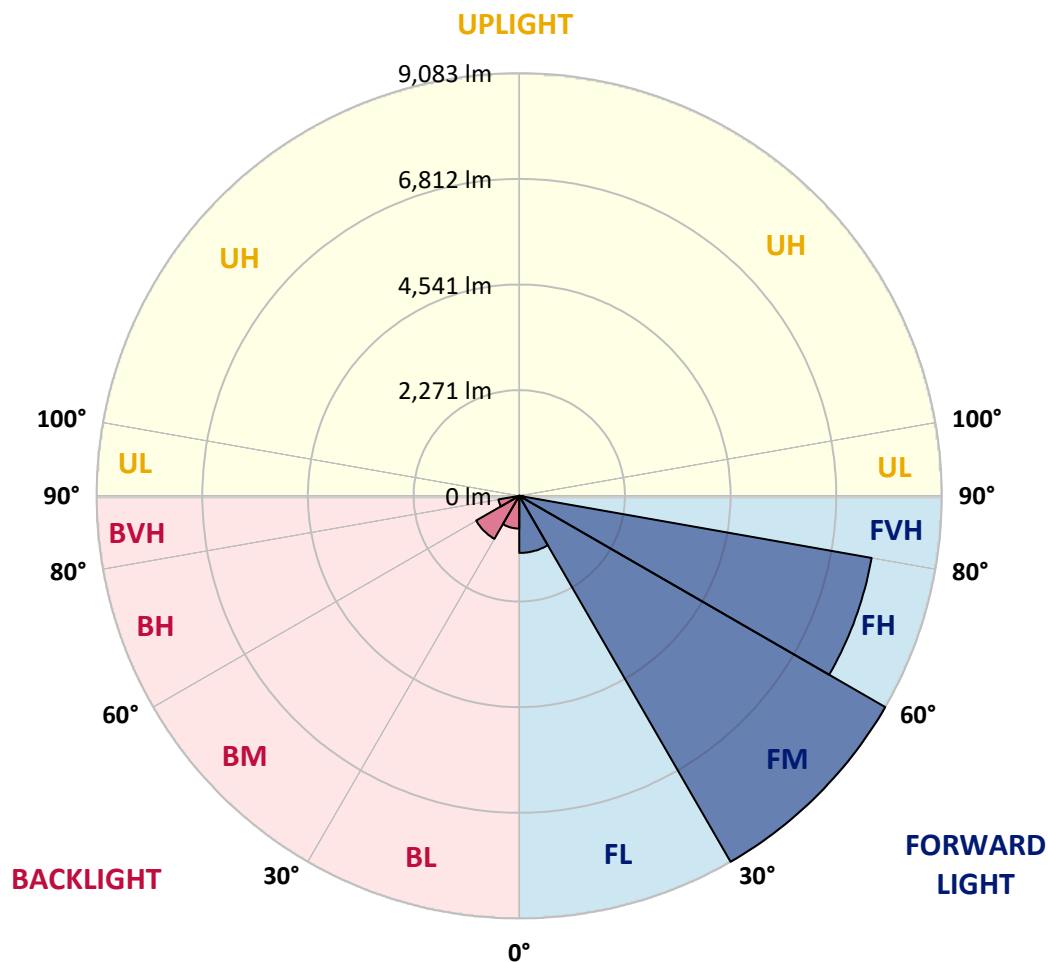
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1227.6	6.0			
FM	(30°-60°)	9082.9	44.7			
FH	(60°-80°)	7690.4	37.9			G4/12000
FVH	(80°-90°)	82.9	0.4			G1/100
BL	(0°-30°)	703.9	3.5	B2/1000		
BM	(30°-60°)	1068.2	5.3	B2/2500		
BH	(60°-80°)	453.6	2.2	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: 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°	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5
2.5°	2356.8	2367.4	2375.1	2379.9	2385.6	2398.1	2402.0	2407.7	2410.6	2410.6	2417.3
5°	2263.7	2275.2	2291.5	2305.0	2331.8	2366.4	2391.4	2401.0	2418.3	2433.7	2442.3
7.5°	2177.2	2190.7	2209.9	2241.6	2287.7	2343.4	2395.2	2408.7	2442.3	2474.9	2491.3
10°	2121.5	2132.1	2157.1	2202.2	2262.7	2340.5	2413.5	2429.8	2487.4	2542.2	2572.9
12.5°	2102.3	2111.9	2137.8	2188.7	2263.7	2354.9	2455.7	2479.7	2564.3	2644.0	2687.2
15°	2130.2	2132.1	2159.9	2208.0	2281.9	2390.4	2525.8	2554.7	2661.3	2765.0	2818.8
17.5°	2237.7	2229.1	2243.5	2264.6	2323.2	2437.5	2599.8	2643.0	2785.2	2907.1	2958.0
20°	2506.6	2506.6	2474.0	2416.4	2417.3	2510.5	2699.7	2748.7	2922.5	3063.7	3109.8
22.5°	2966.7	2958.0	2892.7	2751.5	2621.9	2636.3	2821.7	2885.0	3087.7	3238.5	3253.8
25°	3519.9	3509.3	3408.5	3209.7	2984.9	2839.9	2986.8	3059.8	3284.6	3418.1	3386.4
27.5°	4105.7	4097.1	3997.2	3750.4	3430.5	3164.5	3183.7	3252.9	3485.3	3616.9	3516.0
30°	4673.3	4676.2	4577.3	4323.7	3961.6	3578.4	3433.4	3473.8	3680.2	3813.7	3669.7
32.5°	5213.0	5216.9	5131.4	4848.1	4510.0	4059.6	3779.2	3768.6	3906.9	4038.5	3873.3
35°	5694.2	5703.8	5645.2	5425.3	5067.1	4595.5	4227.7	4202.7	4228.6	4377.5	4185.4
37.5°	6158.1	6163.8	6119.7	5934.3	5634.7	5184.2	4794.3	4758.8	4703.1	4817.4	4597.4
40°	6666.1	6651.7	6600.8	6432.8	6175.4	5834.4	5403.2	5341.7	5244.7	5346.5	5139.1
42.5°	7138.6	7122.3	7131.0	6940.8	6723.8	6502.9	6112.9	6007.3	5950.6	6067.8	5803.7
45°	7729.3	7720.6	7749.5	7584.3	7408.5	7248.1	6926.4	6811.1	6786.2	6923.5	6607.5
47.5°	8312.3	8333.4	8422.7	8352.6	8281.5	8140.3	7787.9	7736.0	7751.4	7917.5	7455.6
50°	8798.2	8823.2	9068.1	9148.8	9251.5	9168.9	8815.5	8783.8	8844.3	8994.1	8368.0
52.5°	9149.7	9200.6	9505.1	9876.7	10251.3	10307.0	9954.5	9925.7	10007.4	10030.4	9072.9
55°	9393.7	9438.8	9783.6	10463.5	11226.1	11466.2	11247.2	11135.8	11120.5	10892.8	9814.3
57.5°	9436.9	9432.1	9927.6	10842.9	11990.6	12610.0	12471.7	12362.3	12047.2	11690.0	10664.3
60°	9192.9	9220.8	9796.1	10974.5	12470.8	13475.4	13485.9	13343.8	12853.0	12465.0	11488.3
62.5°	8441.9	8555.2	9136.3	10629.7	12465.0	13824.0	14229.3	14120.7	13533.9	13099.8	12323.8
65°	7224.1	7264.5	7818.6	9448.4	11622.7	13678.0	14898.7	14858.3	14147.6	13716.4	12753.1
67.5°	5275.5	5188.1	5770.1	7440.2	9840.2	12827.1	15378.9	15429.8	14621.1	13843.2	12296.0
68°	4814.5	4840.4	5293.7	6943.7	9373.5	12526.5	15410.6	15488.4	14668.2	13760.6	12046.3
70°	2869.7	2919.6	3323.9	4780.9	7131.0	10825.6	15068.7	15246.3	14387.7	12908.7	10419.4
72.5°	732.8	792.3	1174.6	2139.8	4073.1	7627.5	12720.5	13021.1	12491.9	10472.2	7034.0
75°	301.6	316.9	419.7	704.9	1517.4	3436.3	8384.3	9027.7	8659.9	6269.5	3178.9
77.5°	208.4	219.0	269.9	390.9	656.9	1165.0	4110.5	4575.3	4122.0	2139.8	693.4
80°	149.8	158.5	193.0	260.3	377.4	415.9	1339.8	1549.1	1230.3	469.6	171.9
82.5°	89.3	96.0	144.1	185.4	229.5	198.8	333.3	378.4	356.3	233.4	76.8
85°	44.2	51.9	97.0	132.5	123.9	83.6	101.8	113.3	140.2	142.1	41.3
87.5°	2.9	5.8	56.7	79.7	34.6	19.2	29.8	36.5	49.9	70.1	17.3
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°	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5	2413.5
2.5°	2420.2	2421.2	2414.4	2411.6	2413.5	2402.0	2397.2	2399.1	2399.1	2402.0	2397.2
5°	2444.2	2444.2	2432.7	2417.3	2408.7	2386.6	2372.2	2368.3	2365.5	2363.5	2359.7
7.5°	2496.1	2490.3	2470.1	2436.5	2407.7	2359.7	2323.2	2304.0	2294.4	2290.6	2287.7
10°	2579.6	2569.1	2535.5	2473.0	2406.8	2321.3	2241.6	2184.9	2137.8	2118.6	2107.1
12.5°	2692.0	2676.6	2620.0	2516.2	2400.0	2242.5	2069.7	1903.5	1748.9	1685.5	1653.8
15°	2821.7	2799.6	2710.2	2552.7	2360.7	2064.9	1689.3	1398.3	1184.2	1103.5	1068.9
17.5°	2953.2	2924.4	2789.0	2575.8	2242.5	1697.0	1185.1	895.1	752.0	713.6	700.1
20°	3085.8	3043.5	2857.2	2558.5	1975.5	1223.5	781.8	654.0	612.7	601.2	597.4
22.5°	3211.6	3146.3	2918.7	2491.3	1564.5	821.1	618.5	578.2	564.7	558.0	556.1
25°	3321.1	3229.8	2972.4	2283.8	1107.3	620.4	557.0	543.6	526.3	513.8	514.8
27.5°	3423.8	3313.4	3005.1	1941.9	738.5	530.1	515.7	497.5	465.8	447.5	447.5
30°	3547.7	3424.8	3029.1	1494.4	543.6	468.7	457.1	429.3	386.1	362.1	362.1
32.5°	3734.0	3593.8	3013.7	1048.8	450.4	412.0	385.1	346.7	299.6	276.6	275.6
35°	4019.3	3855.0	2904.2	687.6	397.6	358.2	315.0	268.0	226.7	207.4	206.5
37.5°	4403.4	4204.6	2658.4	491.7	356.3	308.3	256.4	204.6	173.8	161.3	160.4
40°	4901.9	4610.9	2306.9	398.6	317.9	260.3	197.8	158.5	137.3	127.7	128.7
42.5°	5500.2	5045.9	1885.3	343.8	280.4	214.2	154.6	124.9	111.4	104.7	102.8
45°	6164.8	5475.2	1443.5	306.4	243.0	172.9	121.0	98.9	88.4	84.5	84.5
47.5°	6895.7	5893.0	1056.4	273.7	202.6	133.5	97.0	80.7	72.0	69.1	68.2
50°	7559.3	6183.0	761.6	239.1	166.1	105.6	78.8	67.2	61.5	57.6	57.6
52.5°	8112.5	6274.3	560.9	201.7	134.5	84.5	65.3	57.6	51.9	49.0	49.0
55°	8599.4	6236.8	416.8	166.1	108.5	69.1	55.7	49.0	44.2	41.3	41.3
57.5°	9066.2	6115.8	311.2	135.4	87.4	55.7	47.1	41.3	36.5	34.6	34.6
60°	9447.4	5914.1	231.5	109.5	70.1	45.1	39.4	33.6	29.8	26.9	26.9
62.5°	9756.7	5691.3	170.0	90.3	55.7	35.5	30.7	27.9	22.1	19.2	19.2
65°	9758.6	5321.6	127.7	74.9	43.2	27.9	23.0	22.1	14.4	11.5	10.6
67.5°	9052.7	4587.8	98.0	64.3	33.6	21.1	17.3	18.2	7.7	4.8	3.8
68°	8796.3	4401.5	92.2	63.4	31.7	20.2	16.3	18.2	6.7	3.8	2.9
70°	7416.2	3501.6	74.0	61.5	27.9	15.4	13.4	18.2	5.8	2.9	1.9
72.5°	4743.4	2032.2	54.7	49.0	21.1	11.5	8.6	16.3	5.8	1.9	1.0
75°	2018.8	630.0	37.5	34.6	12.5	8.6	5.8	10.6	3.8	1.0	0.0
77.5°	425.5	142.1	22.1	21.1	8.6	5.8	3.8	2.9	1.0	0.0	0.0
80°	109.5	41.3	11.5	10.6	4.8	2.9	1.9	0.0	0.0	0.0	0.0
82.5°	34.6	16.3	6.7	4.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.3	9.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	2.9	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)