

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: P322151

Luminaire Tested: **GAN-SA7A-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322151
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-SA7A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 20088 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 226
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



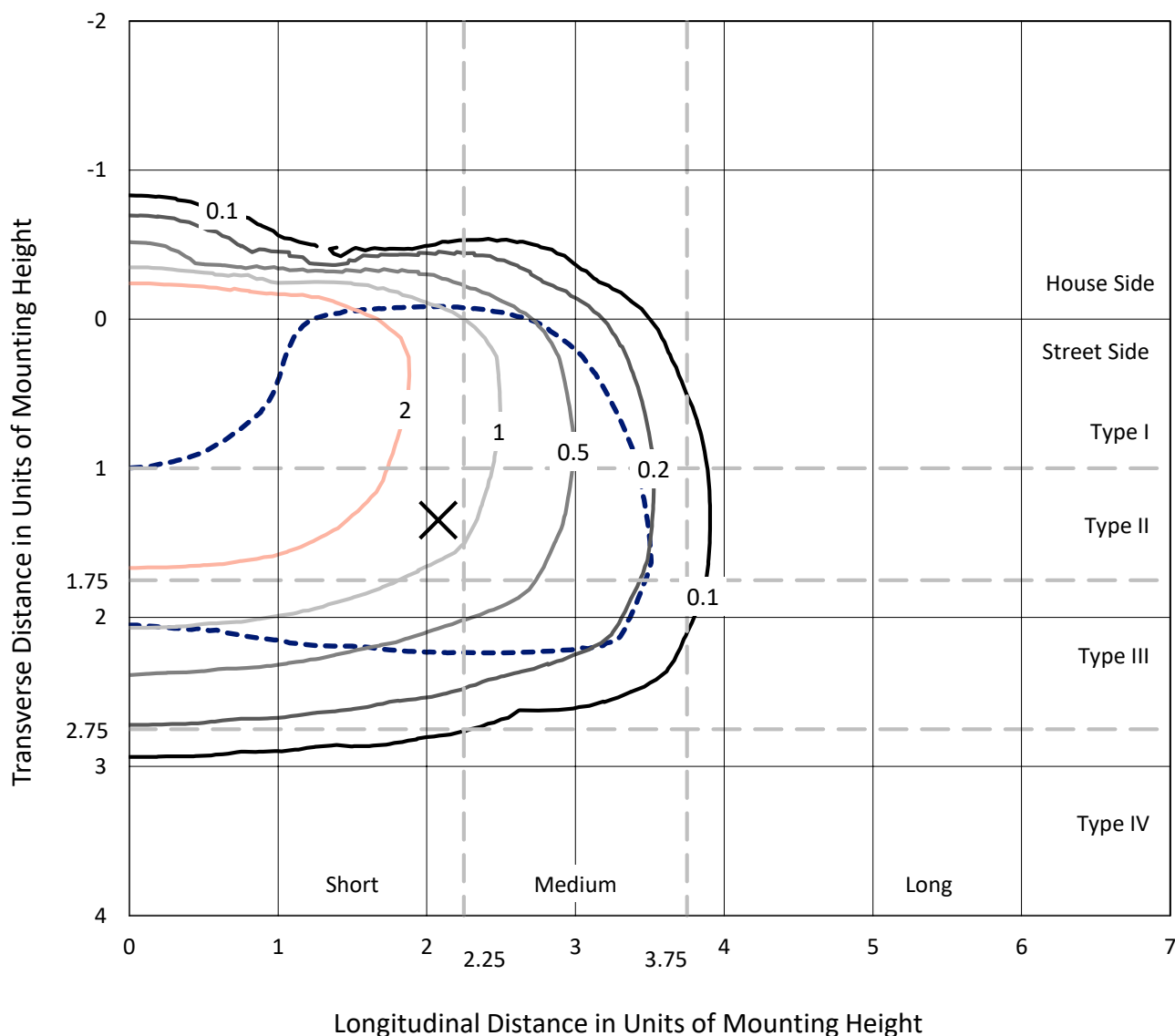
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

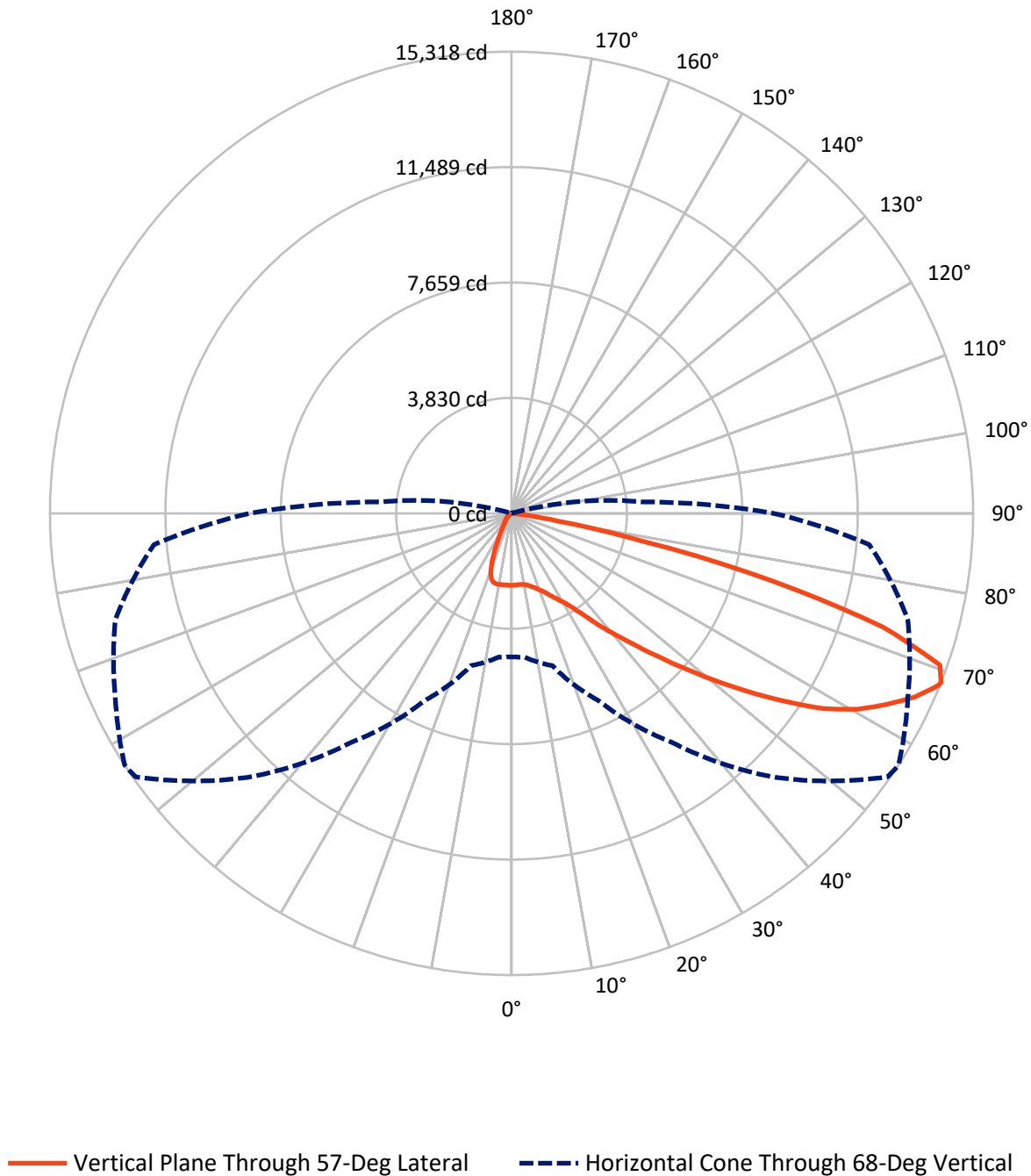
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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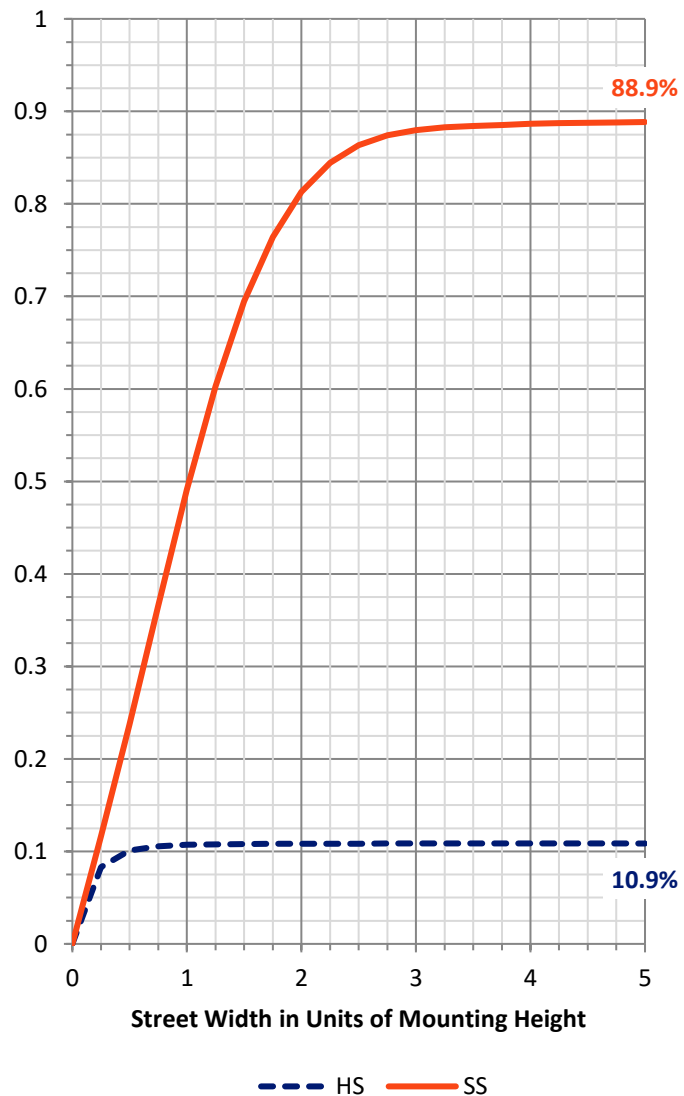
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2202.7	0.0	2202.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	17885.2	0.0	17885.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	20088.0	0.0	20088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	1.1
10°-20°	619.0	3.1
20°-30°	1067.9	5.3
30°-40°	1843.1	9.2
40°-50°	3152.6	15.7
50°-60°	5043.9	25.1
60°-70°	5827.7	29.0
70°-80°	2226.8	11.1
80°-90°	83.5	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°	20088.0	100.0
0°-180°	20088.0	100.0

Coefficient of Utilization



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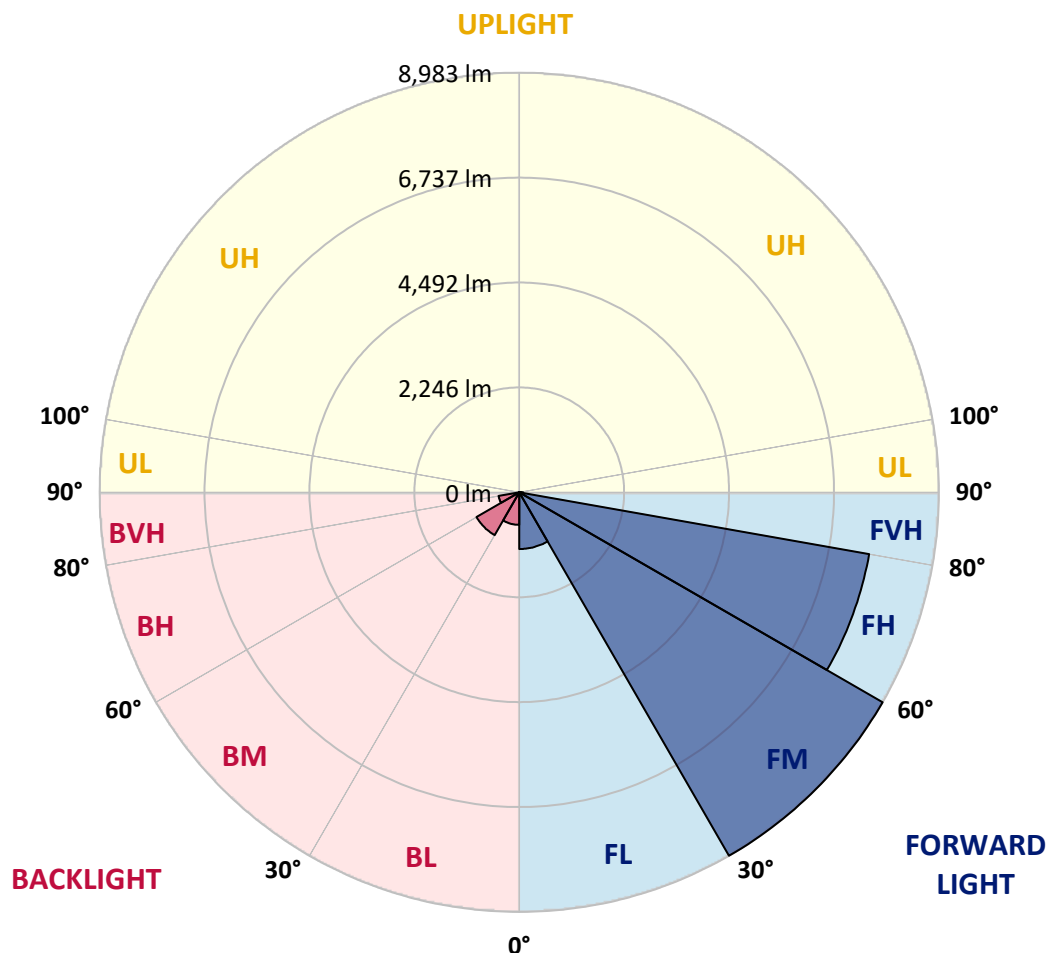
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1214.1	6.0			
FM	(30°-60°)	8983.2	44.7			
FH	(60°-80°)	7606.0	37.9			G4/12000
FVH	(80°-90°)	82.0	0.4			G1/100
BL	(0°-30°)	696.1	3.5	B2/1000		
BM	(30°-60°)	1056.5	5.3	B2/2500		
BH	(60°-80°)	448.6	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°	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0
2.5°	2330.9	2341.4	2349.0	2353.7	2359.4	2371.8	2375.6	2381.3	2384.1	2384.1	2390.8
5°	2238.8	2250.2	2266.4	2279.7	2306.2	2340.4	2365.1	2374.6	2391.7	2406.9	2415.5
7.5°	2153.3	2166.6	2185.6	2217.0	2262.6	2317.6	2368.9	2382.2	2415.5	2447.8	2463.9
10°	2098.2	2108.7	2133.4	2178.0	2237.9	2314.8	2387.0	2403.1	2460.1	2514.3	2544.7
12.5°	2079.2	2088.7	2114.4	2164.7	2238.8	2329.0	2428.8	2452.5	2536.1	2614.9	2657.7
15°	2106.8	2108.7	2136.2	2183.7	2256.9	2364.2	2498.1	2526.6	2632.0	2734.6	2787.8
17.5°	2213.2	2204.6	2218.9	2239.8	2297.7	2410.7	2571.3	2614.0	2754.6	2875.2	2925.6
20°	2479.1	2479.1	2446.8	2389.8	2390.8	2482.9	2670.0	2718.5	2890.4	3030.0	3075.6
22.5°	2934.1	2925.6	2861.0	2721.3	2593.1	2607.4	2790.7	2853.4	3053.8	3202.9	3218.1
25°	3481.2	3470.8	3371.0	3174.4	2952.1	2808.7	2954.0	3026.2	3248.5	3380.5	3349.2
27.5°	4060.6	4052.1	3953.3	3709.2	3392.9	3129.8	3148.8	3217.2	3447.0	3577.2	3477.4
30°	4622.0	4624.8	4527.0	4276.2	3918.1	3539.2	3395.7	3435.6	3639.8	3771.9	3629.4
32.5°	5155.8	5159.6	5075.1	4794.9	4460.5	4015.0	3737.7	3727.2	3864.0	3994.1	3830.8
35°	5631.7	5641.2	5583.2	5365.7	5011.4	4545.1	4181.3	4156.6	4182.2	4329.4	4139.5
37.5°	6090.5	6096.2	6052.5	5869.2	5572.8	5127.3	4741.7	4706.5	4651.4	4764.5	4547.0
40°	6592.9	6578.7	6528.3	6362.1	6107.6	5770.4	5343.9	5283.1	5187.2	5287.8	5082.7
42.5°	7060.3	7044.1	7052.7	6864.6	6649.9	6431.5	6045.8	5941.3	5885.3	6001.2	5740.0
45°	7644.4	7635.9	7664.4	7501.0	7327.2	7168.6	6850.3	6736.4	6711.7	6847.5	6535.0
47.5°	8221.0	8241.9	8330.2	8260.9	8190.6	8051.0	7702.4	7651.1	7666.3	7830.6	7373.7
50°	8701.6	8726.3	8968.5	9048.3	9149.9	9068.3	8718.7	8687.4	8747.2	8895.4	8276.1
52.5°	9049.3	9099.6	9400.7	9768.3	10138.7	10193.8	9845.2	9816.7	9897.5	9920.3	8973.3
55°	9290.5	9335.2	9676.2	10348.7	11102.8	11340.3	11123.7	11013.6	10998.4	10773.2	9706.6
57.5°	9333.3	9328.5	9818.6	10723.9	11858.9	12471.6	12334.8	12226.5	11915.0	11561.6	10547.2
60°	9092.0	9119.6	9688.5	10854.0	12333.9	13327.4	13337.9	13197.3	12711.9	12328.2	11362.2
62.5°	8349.2	8461.3	9036.0	10513.0	12328.2	13672.2	14073.0	13965.7	13385.3	12956.0	12188.5
65°	7144.8	7184.7	7732.8	9344.7	11495.1	13527.8	14735.1	14695.2	13992.3	13565.8	12613.1
67.5°	5217.6	5131.1	5706.7	7358.5	9732.2	12686.3	15210.0	15260.4	14460.6	13691.2	12161.0
68°	4761.6	4787.3	5235.6	6867.4	9270.6	12389.0	15241.4	15318.3	14507.1	13609.5	11914.0
70°	2838.2	2887.6	3287.4	4728.4	7052.7	10706.8	14903.2	15078.9	14229.8	12767.0	10305.0
72.5°	724.7	783.6	1161.7	2116.3	4028.3	7543.7	12580.8	12878.1	12354.8	10357.2	6956.7
75°	298.3	313.5	415.1	697.2	1500.8	3398.6	8292.2	8928.6	8564.8	6200.6	3144.0
77.5°	206.1	216.6	266.9	386.6	649.7	1152.2	4065.4	4525.1	4076.8	2116.3	685.8
80°	148.2	156.7	190.9	257.4	373.3	411.3	1325.0	1532.1	1216.8	464.5	170.0
82.5°	88.3	95.0	142.5	183.3	227.0	196.6	329.6	374.2	352.4	230.8	76.0
85°	43.7	51.3	95.9	131.1	122.5	82.6	100.7	112.1	138.7	140.6	40.8
87.5°	2.8	5.7	56.0	78.8	34.2	19.0	29.4	36.1	49.4	69.3	17.1
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°	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0	2387.0
2.5°	2393.6	2394.6	2387.9	2385.1	2387.0	2375.6	2370.8	2372.7	2372.7	2375.6	2370.8
5°	2417.4	2417.4	2406.0	2390.8	2382.2	2360.4	2346.1	2342.3	2339.5	2337.6	2333.8
7.5°	2468.7	2463.0	2443.0	2409.8	2381.3	2333.8	2297.7	2278.7	2269.2	2265.4	2262.6
10°	2551.3	2540.9	2507.6	2445.9	2380.3	2295.8	2217.0	2160.9	2114.4	2095.4	2084.0
12.5°	2662.4	2647.2	2591.2	2488.6	2373.7	2217.9	2046.9	1882.6	1729.7	1667.0	1635.6
15°	2790.7	2768.8	2680.5	2524.7	2334.7	2042.2	1670.8	1383.0	1171.2	1091.4	1057.2
17.5°	2920.8	2892.3	2758.4	2547.5	2217.9	1678.4	1172.1	885.3	743.7	705.7	692.4
20°	3051.9	3010.1	2825.8	2530.4	1953.9	1210.1	773.2	646.9	606.0	594.6	590.8
22.5°	3176.3	3111.7	2886.6	2463.9	1547.3	812.1	611.7	571.8	558.5	551.9	550.0
25°	3284.6	3194.4	2939.8	2258.8	1095.2	613.6	550.9	537.6	520.5	508.2	509.1
27.5°	3386.2	3277.0	2972.1	1920.6	730.4	524.3	510.1	492.0	460.7	442.6	442.6
30°	3508.8	3387.2	2995.8	1478.0	537.6	463.5	452.1	424.6	381.8	358.1	358.1
32.5°	3693.0	3554.4	2980.6	1037.2	445.5	407.5	380.9	342.9	296.4	273.6	272.6
35°	3975.1	3812.7	2872.4	680.1	393.2	354.3	311.6	265.0	224.2	205.2	204.2
37.5°	4355.1	4158.5	2629.2	486.3	352.4	304.9	253.6	202.3	171.9	159.6	158.6
40°	4848.1	4560.3	2281.6	394.2	314.4	257.4	195.7	156.7	135.8	126.3	127.3
42.5°	5439.8	4990.5	1864.6	340.0	277.4	211.8	152.9	123.5	110.2	103.5	101.6
45°	6097.1	5415.1	1427.6	303.0	240.3	171.0	119.7	97.8	87.4	83.6	83.6
47.5°	6820.0	5828.3	1044.8	270.7	200.4	132.0	95.9	79.8	71.2	68.4	67.4
50°	7476.3	6115.2	753.2	236.5	164.3	104.5	77.9	66.5	60.8	57.0	57.0
52.5°	8023.4	6205.4	554.7	199.5	133.0	83.6	64.6	57.0	51.3	48.4	48.4
55°	8505.0	6168.4	412.2	164.3	107.3	68.4	55.1	48.4	43.7	40.8	40.8
57.5°	8966.6	6048.7	307.8	133.9	86.4	55.1	46.5	40.8	36.1	34.2	34.2
60°	9343.7	5849.2	228.9	108.3	69.3	44.6	38.9	33.2	29.4	26.6	26.6
62.5°	9649.6	5628.8	168.1	89.3	55.1	35.1	30.4	27.5	21.8	19.0	19.0
65°	9651.5	5263.1	126.3	74.1	42.7	27.5	22.8	21.8	14.2	11.4	10.4
67.5°	8953.3	4537.5	96.9	63.6	33.2	20.9	17.1	18.0	7.6	4.7	3.8
68°	8699.7	4353.2	91.2	62.7	31.3	19.9	16.1	18.0	6.6	3.8	2.8
70°	7334.8	3463.2	73.1	60.8	27.5	15.2	13.3	18.0	5.7	2.8	1.9
72.5°	4691.3	2009.9	54.1	48.4	20.9	11.4	8.5	16.1	5.7	1.9	0.9
75°	1996.6	623.1	37.0	34.2	12.3	8.5	5.7	10.4	3.8	0.9	0.0
77.5°	420.8	140.6	21.8	20.9	8.5	5.7	3.8	2.8	0.9	0.0	0.0
80°	108.3	40.8	11.4	10.4	4.7	2.8	1.9	0.0	0.0	0.0	0.0
82.5°	34.2	16.1	6.6	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	9.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	2.8	0.9	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)