

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: P322328

Luminaire Tested: **GAN-SA4C-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322328
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-SA4C-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 20792 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 225
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

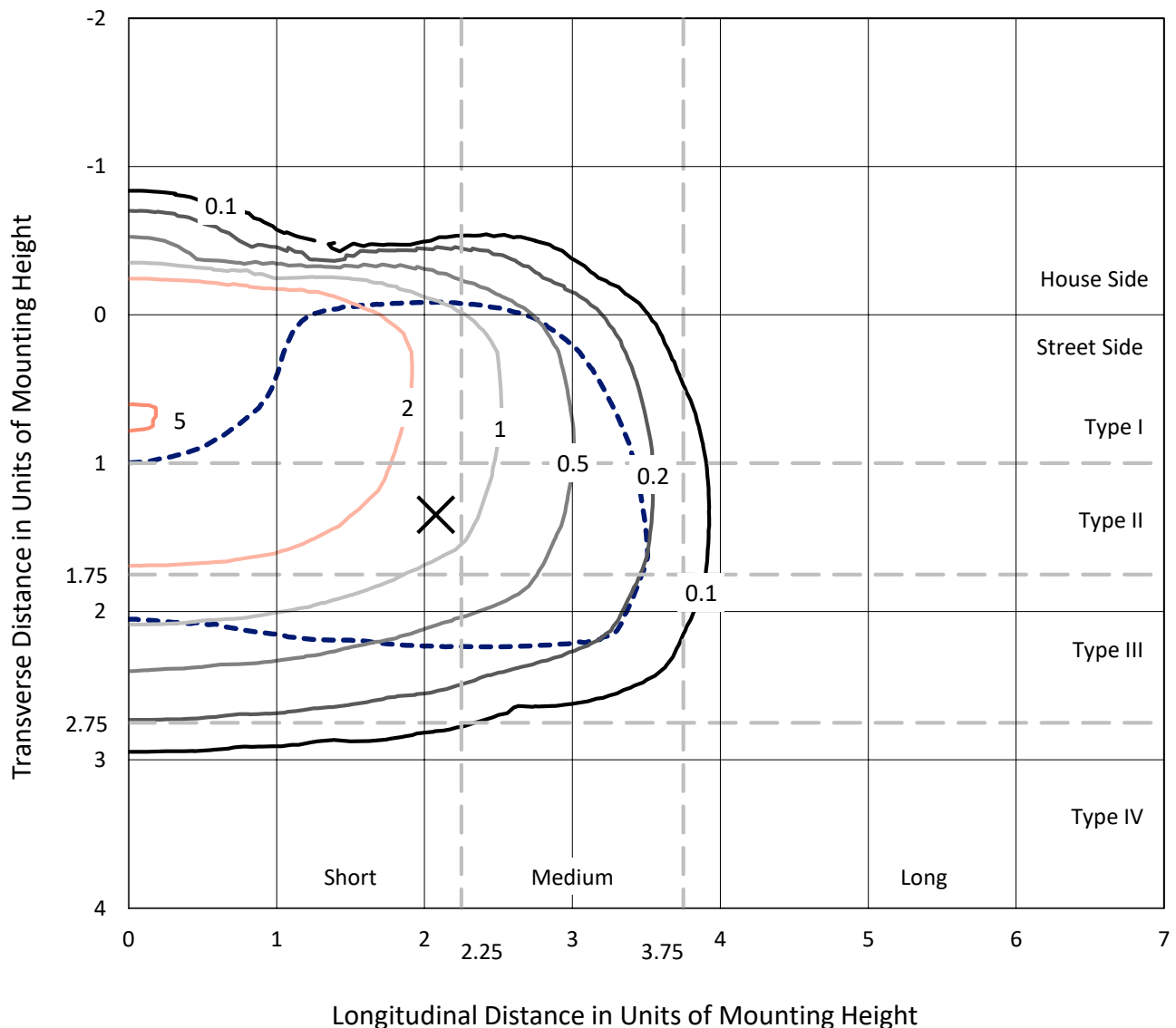


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Iso-Footcandle Lines of Horizontal Illumination

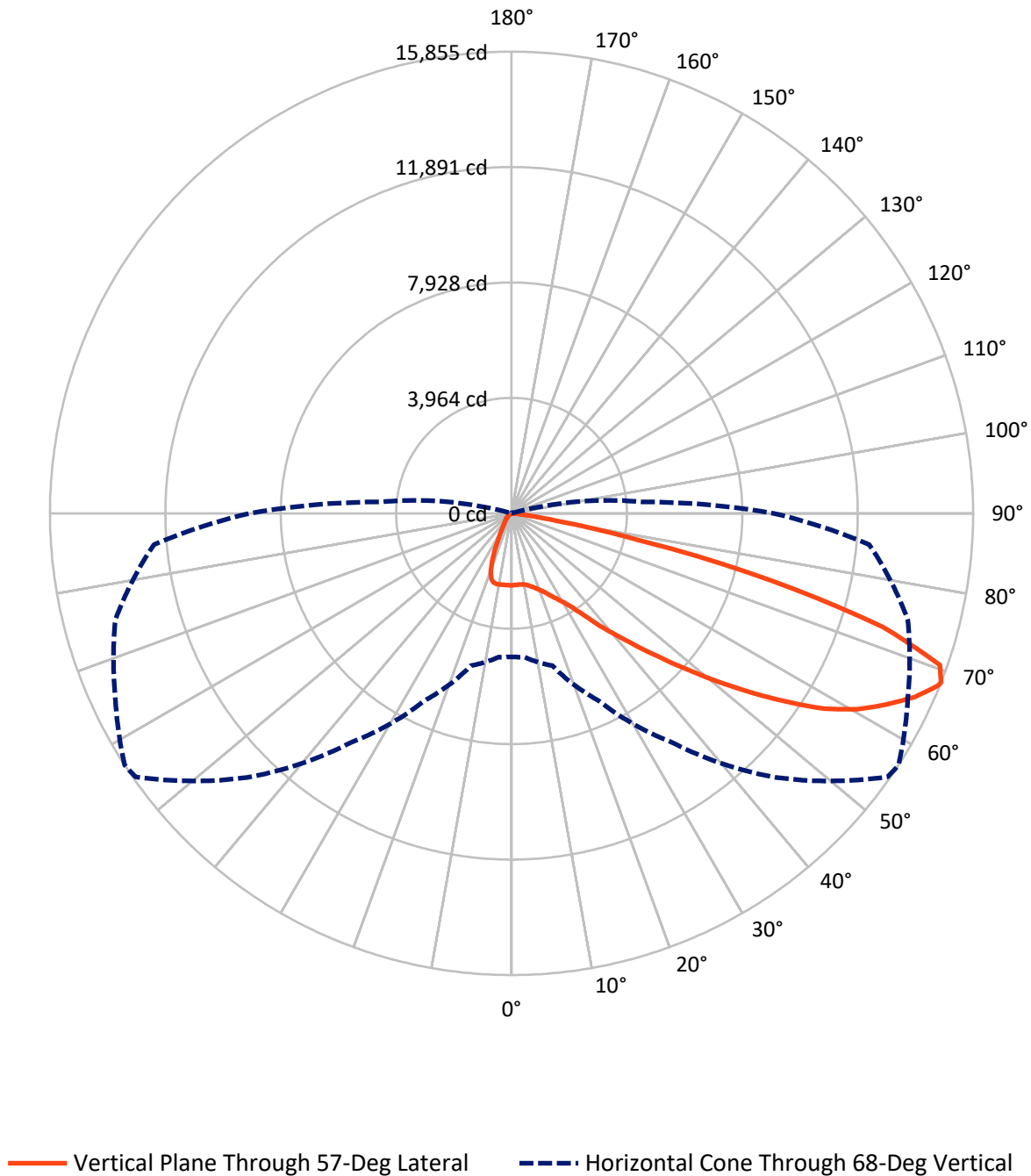
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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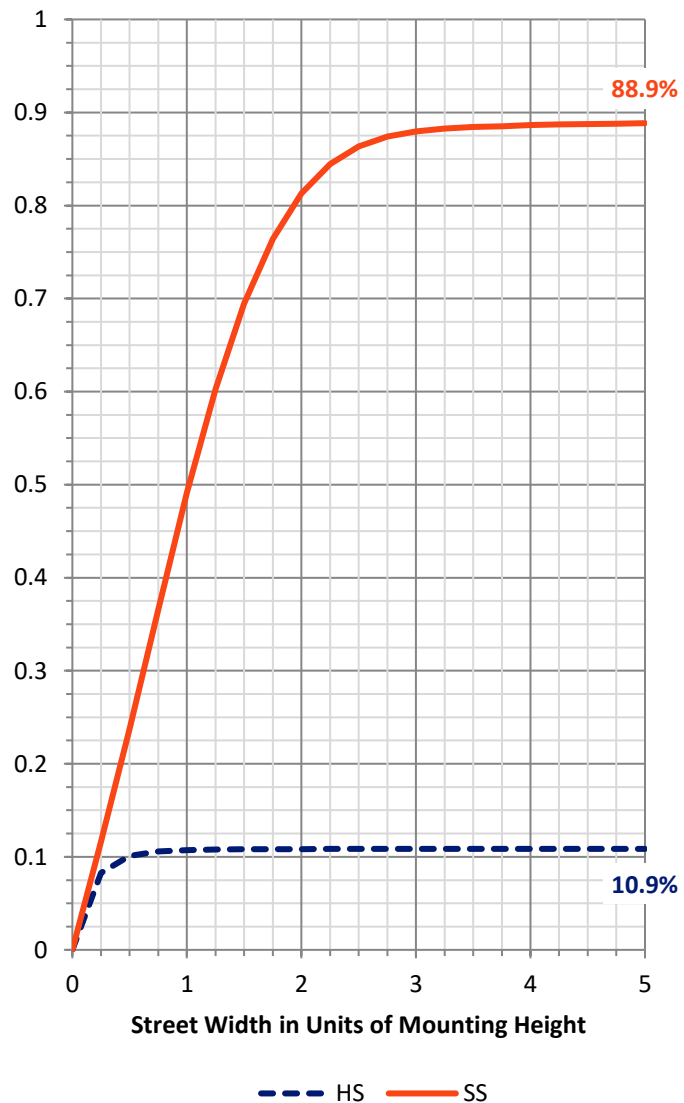
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2280.0	0.0	2280.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	18512.0	0.0	18512.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	20792.0	0.0	20792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	1.1
10°-20°	640.7	3.1
20°-30°	1105.3	5.3
30°-40°	1907.7	9.2
40°-50°	3263.1	15.7
50°-60°	5220.7	25.1
60°-70°	6032.0	29.0
70°-80°	2304.9	11.1
80°-90°	86.4	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°	20792.0	100.0
0°-180°	20792.0	100.0

Coefficient of Utilization



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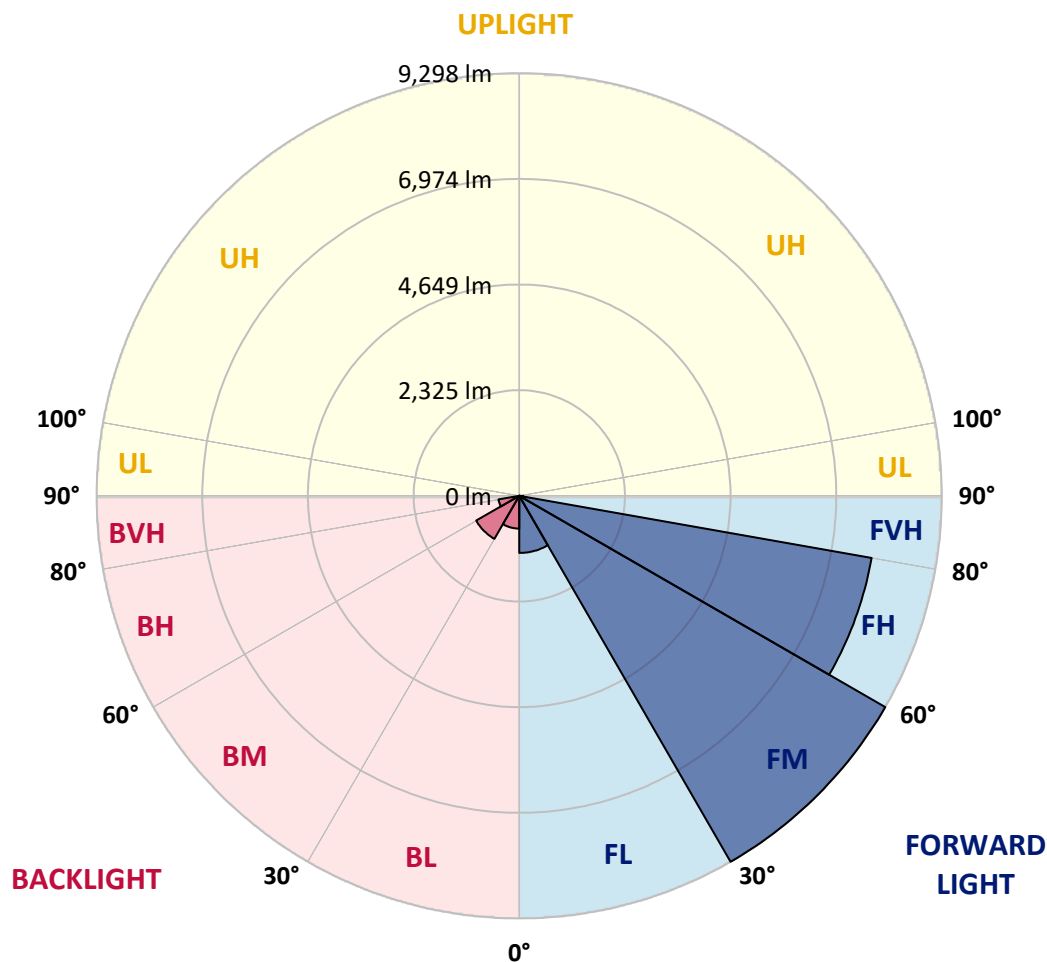
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1256.7	6.0			
FM	(30°-60°)	9298.0	44.7			
FH	(60°-80°)	7872.5	37.9			G4/12000
FVH	(80°-90°)	84.8	0.4			G1/100
BL	(0°-30°)	720.5	3.5	B2/1000		
BM	(30°-60°)	1093.5	5.3	B2/2500		
BH	(60°-80°)	464.3	2.2	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6
2.5°	2412.6	2423.4	2431.3	2436.2	2442.1	2454.9	2458.8	2464.7	2467.7	2467.7	2474.6
5°	2317.3	2329.1	2345.8	2359.5	2387.1	2422.5	2448.0	2457.9	2475.6	2491.3	2500.1
7.5°	2228.8	2242.5	2262.2	2294.7	2341.8	2398.9	2452.0	2465.7	2500.1	2533.6	2550.3
10°	2171.8	2182.6	2208.1	2254.3	2316.3	2395.9	2470.6	2487.4	2546.3	2602.4	2633.8
12.5°	2152.1	2161.9	2188.5	2240.6	2317.3	2410.7	2513.9	2538.5	2625.0	2706.6	2750.8
15°	2180.6	2182.6	2211.1	2260.2	2335.9	2447.0	2585.7	2615.2	2724.3	2830.5	2885.5
17.5°	2290.7	2281.9	2296.6	2318.3	2378.2	2495.2	2661.4	2705.6	2851.1	2976.0	3028.1
20°	2566.0	2566.0	2532.6	2473.6	2474.6	2569.9	2763.6	2813.8	2991.7	3136.2	3183.4
22.5°	3036.9	3028.1	2961.2	2816.7	2684.0	2698.7	2888.5	2953.4	3160.8	3315.2	3330.9
25°	3603.2	3592.4	3489.2	3285.7	3055.6	2907.2	3057.6	3132.3	3362.3	3499.0	3466.6
27.5°	4202.9	4194.1	4091.8	3839.2	3511.8	3239.5	3259.1	3329.9	3567.8	3702.5	3599.3
30°	4784.0	4786.9	4685.7	4426.1	4055.5	3663.2	3514.7	3556.0	3767.4	3904.1	3756.6
32.5°	5336.5	5340.4	5252.9	4962.9	4616.8	4155.7	3868.7	3857.9	3999.4	4134.1	3965.0
35°	5829.1	5838.9	5778.9	5553.8	5187.1	4704.3	4327.8	4302.2	4328.8	4481.2	4284.5
37.5°	6303.9	6309.8	6264.6	6074.8	5768.1	5307.0	4907.8	4871.5	4814.5	4931.4	4706.3
40°	6824.0	6809.2	6757.1	6585.1	6321.6	5972.6	5531.2	5468.2	5368.9	5473.2	5260.8
42.5°	7307.7	7291.0	7299.8	7105.2	6883.0	6656.9	6257.7	6149.6	6091.6	6211.5	5941.1
45°	7912.3	7903.5	7933.0	7763.9	7584.0	7419.8	7090.4	6972.4	6946.9	7087.5	6764.0
47.5°	8509.1	8530.7	8622.2	8550.4	8477.6	8333.1	7972.3	7919.2	7934.9	8105.0	7632.1
50°	9006.6	9032.1	9282.8	9365.4	9470.6	9386.1	9024.3	8991.8	9053.8	9207.1	8566.1
52.5°	9366.4	9418.5	9730.2	10110.6	10494.1	10551.1	10190.3	10160.8	10244.3	10267.9	9287.7
55°	9616.1	9662.3	10015.3	10711.3	11492.0	11737.7	11513.6	11399.5	11383.8	11150.8	10046.7
57.5°	9660.4	9655.4	10162.7	11099.7	12274.5	12908.7	12767.1	12655.0	12332.5	11966.8	10916.8
60°	9410.6	9439.2	10028.1	11234.4	12766.1	13794.5	13805.3	13659.8	13157.4	12760.2	11760.4
62.5°	8641.8	8757.8	9352.6	10881.4	12760.2	14151.4	14566.2	14455.1	13854.4	13410.1	12615.7
65°	7395.2	7436.5	8003.8	9672.2	11898.0	14001.9	15251.5	15210.2	14482.7	14041.2	13055.2
67.5°	5400.4	5310.9	5906.7	7616.4	10073.3	13130.9	15743.1	15795.2	14967.4	14171.0	12587.2
68°	4928.5	4955.0	5419.1	7108.1	9595.5	12823.1	15775.5	15855.1	15015.5	14086.5	12331.6
70°	2937.6	2988.8	3402.7	4894.1	7299.8	11082.0	15425.5	15607.4	14728.5	13214.4	10666.1
72.5°	750.1	811.1	1202.4	2190.4	4169.5	7808.1	13021.7	13329.4	12787.7	10720.2	7200.5
75°	308.7	324.4	429.6	721.6	1553.4	3517.7	8582.8	9241.5	8865.0	6418.0	3254.2
77.5°	213.3	224.2	276.3	400.1	672.5	1192.6	4207.9	4683.7	4219.6	2190.4	709.8
80°	153.4	162.2	197.6	266.4	386.4	425.7	1371.5	1585.8	1259.4	480.8	176.0
82.5°	91.4	98.3	147.5	189.7	235.0	203.5	341.2	387.4	364.7	238.9	78.7
85°	45.2	53.1	99.3	135.7	126.8	85.5	104.2	116.0	143.5	145.5	42.3
87.5°	2.9	5.9	58.0	81.6	35.4	19.7	30.5	37.4	51.1	71.8	17.7
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°	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6	2470.6
2.5°	2477.5	2478.5	2471.6	2468.7	2470.6	2458.8	2453.9	2455.9	2455.9	2458.8	2453.9
5°	2502.1	2502.1	2490.3	2474.6	2465.7	2443.1	2428.4	2424.4	2421.5	2419.5	2415.6
7.5°	2555.2	2549.3	2528.6	2494.2	2464.7	2415.6	2378.2	2358.6	2348.7	2344.8	2341.8
10°	2640.7	2629.9	2595.5	2531.6	2463.8	2376.3	2294.7	2236.6	2188.5	2168.8	2157.0
12.5°	2755.7	2740.0	2682.0	2575.8	2456.9	2295.6	2118.7	1948.6	1790.3	1725.4	1693.0
15°	2888.5	2865.9	2774.4	2613.2	2416.6	2113.8	1729.3	1431.5	1212.2	1129.6	1094.2
17.5°	3023.2	2993.7	2855.0	2636.8	2295.6	1737.2	1213.2	916.3	769.8	730.5	716.7
20°	3158.8	3115.6	2924.8	2619.1	2022.3	1252.5	800.3	669.5	627.2	615.4	611.5
22.5°	3287.6	3220.8	2987.8	2550.3	1601.5	840.6	633.1	591.9	578.1	571.2	569.2
25°	3399.7	3306.3	3042.8	2337.9	1133.6	635.1	570.2	556.5	538.8	526.0	527.0
27.5°	3504.9	3391.8	3076.3	1987.9	756.0	542.7	527.9	509.3	476.8	458.1	458.1
30°	3631.7	3505.9	3100.8	1529.8	556.5	479.8	468.0	439.5	395.2	370.6	370.6
32.5°	3822.5	3678.9	3085.1	1073.6	461.1	421.8	394.2	354.9	306.7	283.1	282.2
35°	4114.5	3946.3	2973.0	703.9	407.0	366.7	322.5	274.3	232.0	212.4	211.4
37.5°	4507.7	4304.2	2721.3	503.4	364.7	315.6	262.5	209.4	177.9	165.2	164.2
40°	5018.0	4720.1	2361.5	408.0	325.4	266.4	202.5	162.2	140.6	130.8	131.7
42.5°	5630.5	5165.4	1929.9	352.0	287.1	219.2	158.3	127.8	114.0	107.2	105.2
45°	6310.8	5604.9	1477.7	313.6	248.7	177.0	123.9	101.3	90.4	86.5	86.5
47.5°	7059.0	6032.6	1081.5	280.2	207.4	136.7	99.3	82.6	73.7	70.8	69.8
50°	7738.3	6329.5	779.6	244.8	170.1	108.1	80.6	68.8	62.9	59.0	59.0
52.5°	8304.6	6422.9	574.2	206.5	137.6	86.5	66.9	59.0	53.1	50.1	50.1
55°	8803.1	6384.5	426.7	170.1	111.1	70.8	57.0	50.1	45.2	42.3	42.3
57.5°	9280.9	6260.7	318.5	138.6	89.5	57.0	48.2	42.3	37.4	35.4	35.4
60°	9671.2	6054.2	236.9	112.1	71.8	46.2	40.3	34.4	30.5	27.5	27.5
62.5°	9987.7	5826.1	174.0	92.4	57.0	36.4	31.5	28.5	22.6	19.7	19.7
65°	9989.7	5447.6	130.8	76.7	44.2	28.5	23.6	22.6	14.7	11.8	10.8
67.5°	9267.1	4696.5	100.3	65.9	34.4	21.6	17.7	18.7	7.9	4.9	3.9
68°	9004.6	4505.7	94.4	64.9	32.4	20.6	16.7	18.7	6.9	3.9	2.9
70°	7591.8	3584.5	75.7	62.9	28.5	15.7	13.8	18.7	5.9	2.9	2.0
72.5°	4855.7	2080.3	56.0	50.1	21.6	11.8	8.8	16.7	5.9	2.0	1.0
75°	2066.6	644.9	38.3	35.4	12.8	8.8	5.9	10.8	3.9	1.0	0.0
77.5°	435.5	145.5	22.6	21.6	8.8	5.9	3.9	2.9	1.0	0.0	0.0
80°	112.1	42.3	11.8	10.8	4.9	2.9	2.0	0.0	0.0	0.0	0.0
82.5°	35.4	16.7	6.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	9.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	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)