

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: P319456

Luminaire Tested: **GAN-SA2D-760-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15552 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - 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: 24 FT

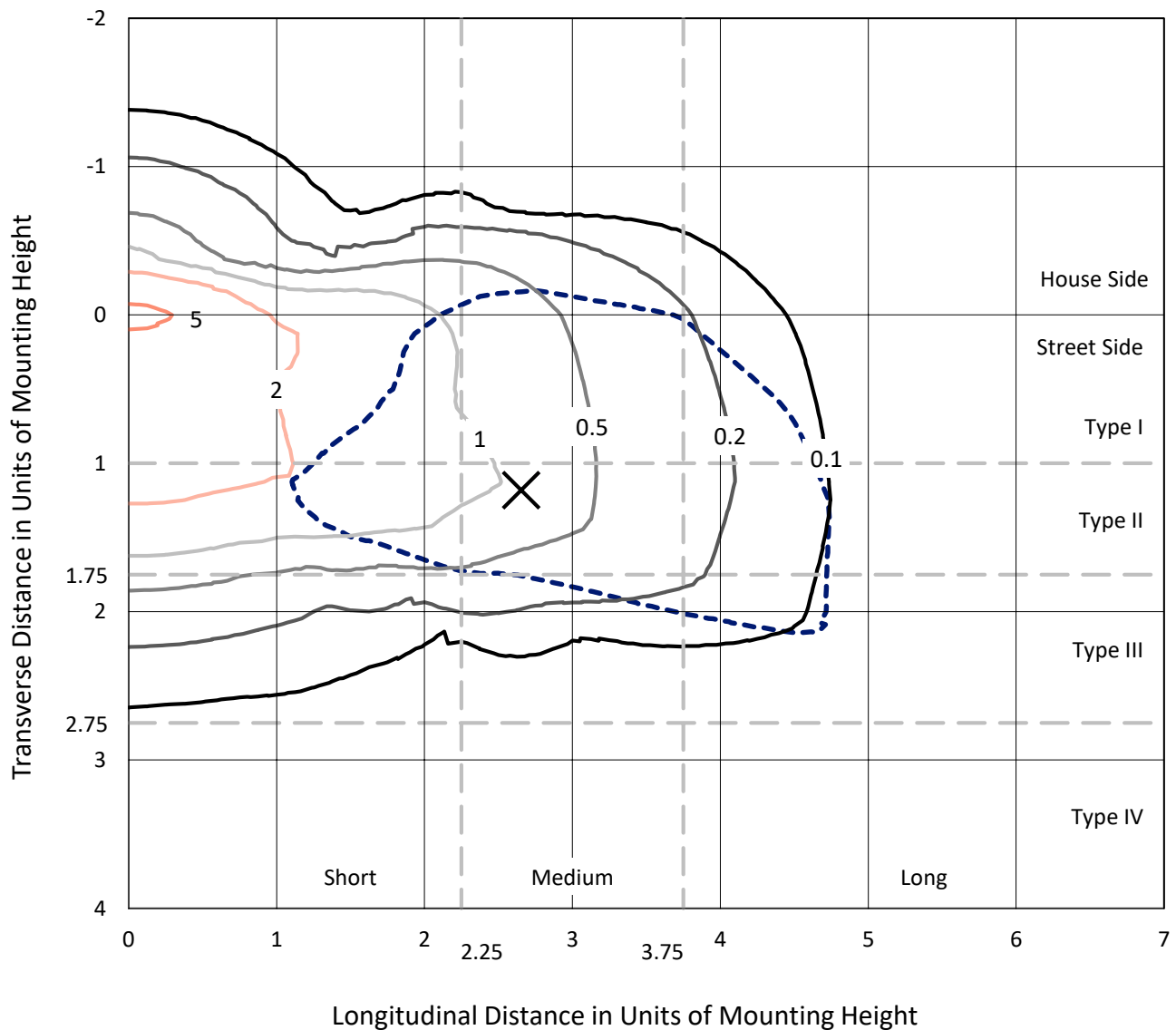


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Iso-Footcandle Lines of Horizontal Illumination

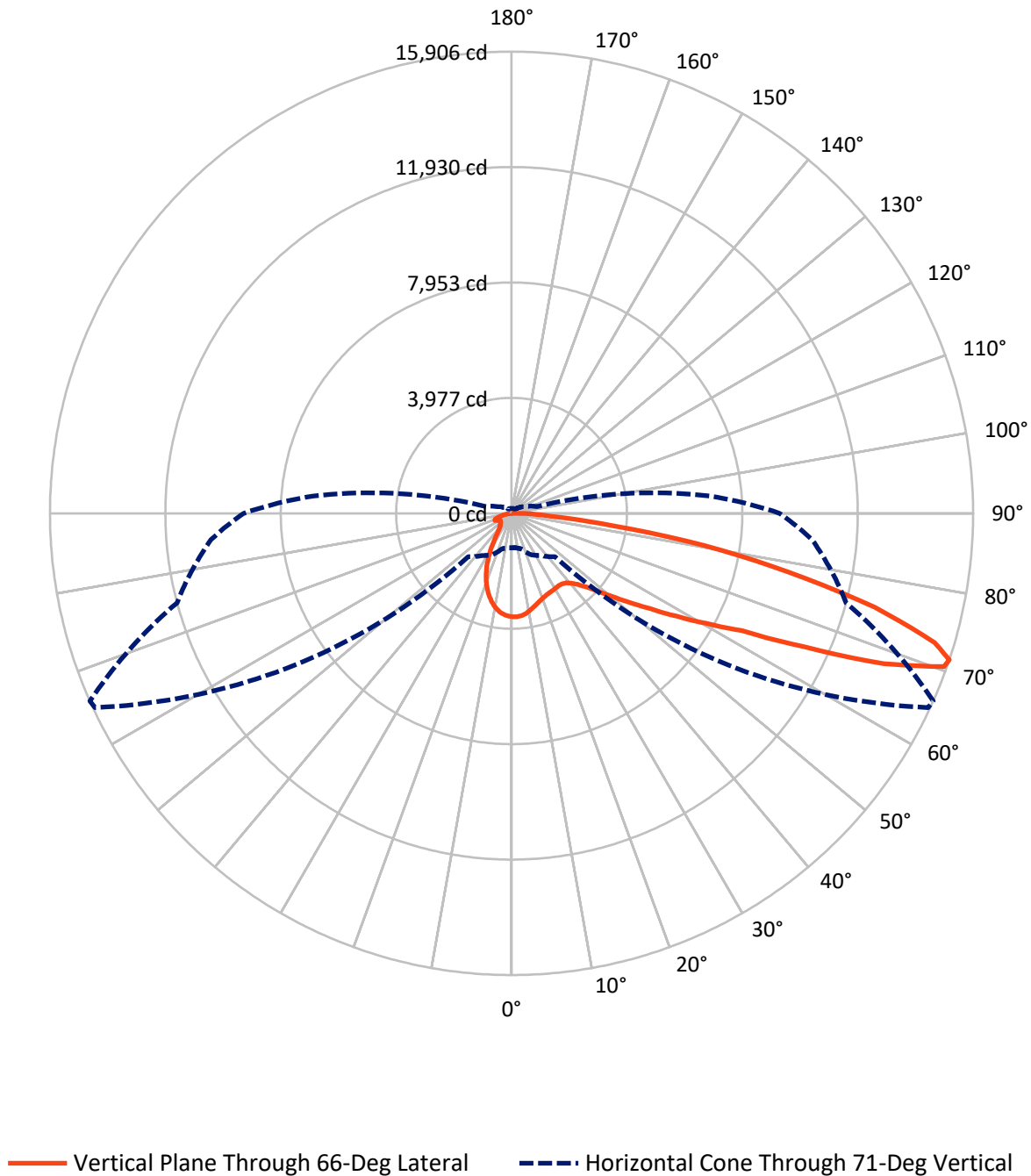
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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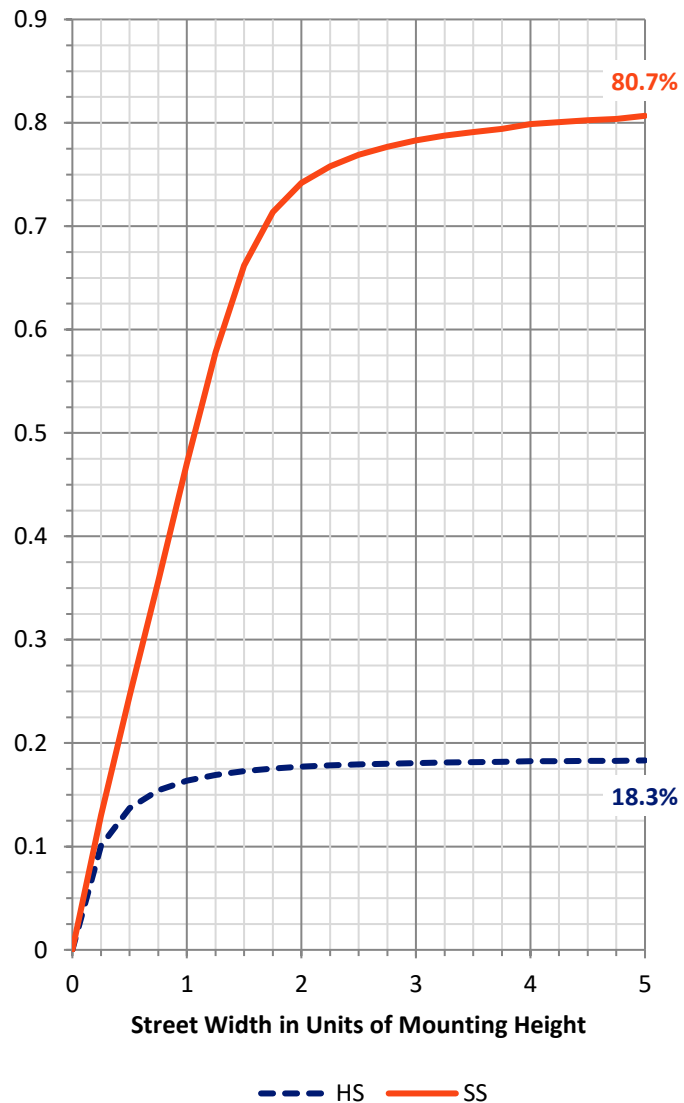
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2882.2	0.0	2882.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	12669.8	0.0	12669.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	15552.0	0.0	15552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	2.0
10°-20°	752.1	4.8
20°-30°	1010.3	6.5
30°-40°	1329.1	8.5
40°-50°	1933.4	12.4
50°-60°	3020.2	19.4
60°-70°	3783.3	24.3
70°-80°	2885.8	18.6
80°-90°	524.0	3.4
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°	15552.0	100.0
0°-180°	15552.0	100.0

Coefficient of Utilization



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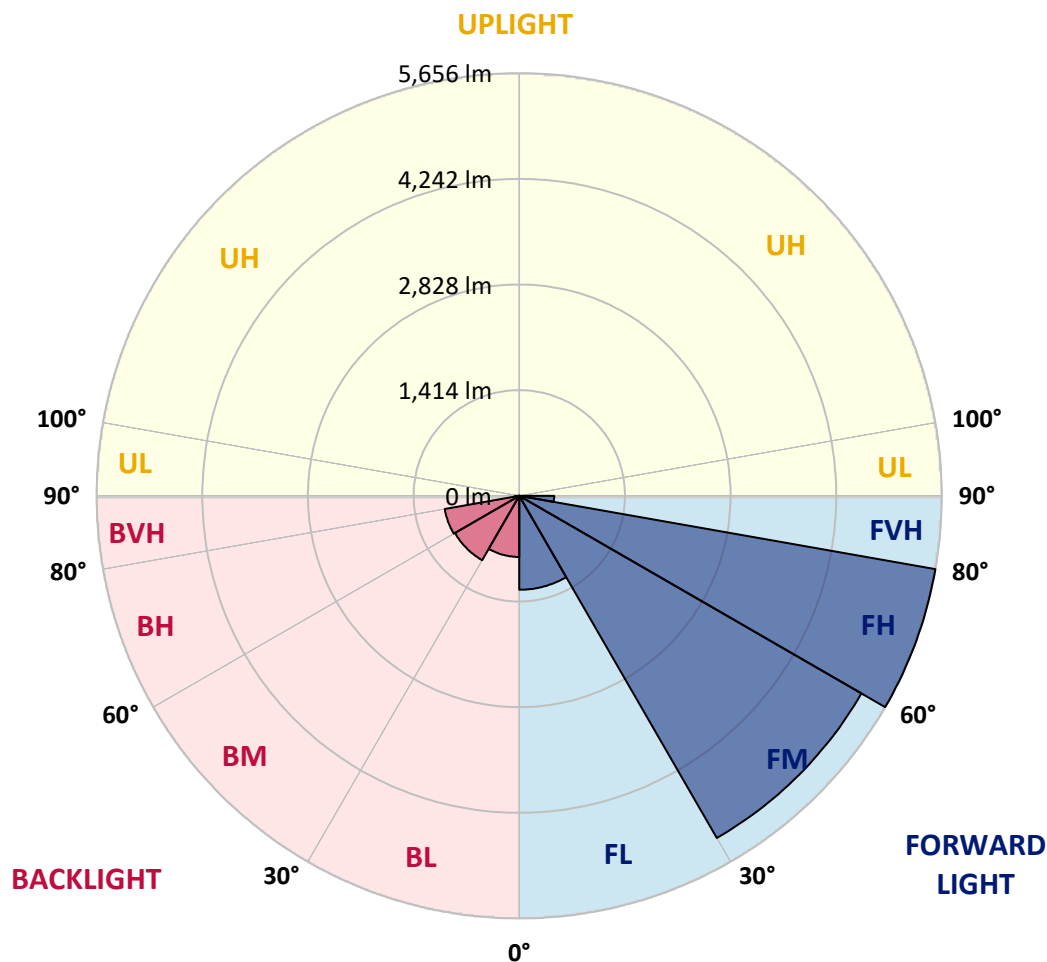
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.6	8.1			
FM	(30°-60°)	5288.5	34.0			
FH	(60°-80°)	5656.4	36.4			G3/7500
FVH	(80°-90°)	467.3	3.0			G3/500
BL	(0°-30°)	818.5	5.3	B2/1000		
BM	(30°-60°)	994.3	6.4	B1/1000		
BH	(60°-80°)	1012.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	56.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7
2.5°	3496.6	3491.2	3507.4	3524.0	3530.4	3541.2	3557.3	3566.4	3565.9	3567.5	3562.1
5°	3264.7	3257.7	3289.9	3316.2	3366.7	3423.6	3492.9	3542.3	3543.3	3571.3	3578.8
7.5°	3045.0	3040.2	3077.3	3119.7	3178.2	3265.2	3377.4	3483.7	3490.2	3565.9	3592.2
10°	2868.9	2867.8	2903.8	2950.0	3018.2	3115.4	3244.3	3400.0	3409.6	3540.1	3594.3
12.5°	2731.5	2733.6	2764.8	2817.4	2889.3	2990.8	3130.4	3306.0	3321.6	3499.3	3582.0
15°	2630.0	2638.6	2663.8	2717.0	2787.8	2890.9	3034.3	3219.0	3242.6	3453.7	3575.0
17.5°	2572.0	2581.7	2599.4	2643.4	2710.0	2809.3	2945.2	3147.6	3169.1	3418.8	3575.5
20°	2554.8	2562.9	2573.1	2599.9	2656.3	2746.5	2874.8	3083.2	3106.3	3390.8	3580.9
22.5°	2588.6	2594.5	2595.6	2593.5	2627.8	2701.4	2823.8	3035.9	3060.6	3372.6	3584.7
25°	2661.1	2669.2	2663.3	2643.4	2632.1	2677.2	2797.5	3004.8	3029.5	3359.2	3577.2
27.5°	2770.1	2771.2	2766.4	2740.6	2687.4	2679.9	2789.5	2986.5	3010.1	3343.6	3561.6
30°	2918.3	2925.3	2916.7	2881.8	2794.8	2722.9	2799.1	2968.8	2990.3	3323.7	3536.4
32.5°	3091.8	3108.9	3108.4	3071.9	2947.3	2819.0	2838.9	2958.1	2974.7	3302.8	3505.7
35°	3271.6	3295.3	3339.3	3323.7	3169.6	2970.9	2915.1	2975.2	2986.5	3300.1	3484.3
37.5°	3458.5	3482.1	3572.9	3614.7	3434.3	3188.4	3035.4	3035.9	3041.3	3332.8	3482.7
40°	3653.9	3679.2	3815.6	3924.6	3777.4	3463.9	3229.2	3162.6	3156.7	3413.4	3514.3
42.5°	3927.8	3950.3	4114.1	4253.2	4158.1	3816.6	3497.2	3358.1	3345.7	3571.3	3615.8
45°	4274.1	4293.5	4467.4	4616.2	4567.3	4219.4	3833.8	3627.1	3624.9	3834.4	3821.5
47.5°	4686.0	4701.0	4857.2	5001.2	5018.9	4682.7	4256.9	4042.2	4007.3	4195.2	4139.9
50°	5115.0	5131.6	5237.9	5392.6	5524.1	5302.9	4801.4	4550.6	4503.9	4671.5	4590.9
52.5°	5399.0	5421.0	5513.4	5709.4	6092.2	5982.7	5445.2	5167.1	5096.2	5248.7	5186.9
55°	5272.3	5321.7	5462.9	5777.0	6546.5	7021.2	6239.4	5886.0	5806.0	5932.8	5896.2
57.5°	4696.2	4763.8	4956.6	5441.4	6610.4	7936.1	7440.0	6732.8	6676.4	6639.9	6656.6
60°	3643.2	3708.2	3947.1	4579.1	6165.3	8604.1	9246.8	7776.6	7695.0	7349.8	7364.8
62.5°	2578.4	2545.7	2709.4	3171.8	5009.7	8682.5	11302.8	9172.7	8904.2	8099.4	8033.3
65°	1966.3	1958.8	2032.4	2179.5	3034.3	7744.4	12527.6	11519.2	11099.8	8981.0	8825.3
67.5°	1615.7	1602.3	1674.7	1889.0	1954.0	4996.3	12554.4	14241.5	13829.7	10078.5	9741.3
70°	1328.4	1313.4	1381.0	1657.6	1805.8	2533.9	10566.1	15835.7	15813.7	11468.2	10432.9
71°	1191.0	1180.2	1261.3	1568.4	1774.1	2111.8	9122.8	15840.0	15906.1	11938.5	10392.1
72.5°	969.7	973.5	1059.4	1396.1	1750.5	1864.8	6704.9	15101.7	15241.3	12386.9	10021.1
75°	644.3	647.6	760.3	1073.9	1697.3	1824.6	3685.1	12672.0	12928.7	12118.4	9144.3
77.5°	432.8	431.7	508.5	736.7	1478.8	1824.6	2160.7	9477.7	9759.6	9642.5	7049.6
80°	298.0	295.9	350.1	508.5	1119.5	1846.6	1670.5	6642.1	6727.4	5207.3	2865.2
82.5°	182.6	184.2	228.7	359.2	761.9	1661.9	1577.0	3621.7	3528.8	1460.5	715.8
85°	104.7	104.2	146.1	243.2	489.2	1402.5	1537.8	1558.8	1429.9	439.8	258.8
87.5°	37.6	40.3	78.4	134.8	280.3	976.7	1304.8	810.8	730.8	198.7	117.1
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°	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7	3562.7
2.5°	3558.4	3561.6	3557.8	3536.4	3518.1	3488.6	3471.9	3448.8	3441.8	3438.6	3447.2
5°	3571.8	3572.9	3541.2	3484.8	3421.4	3346.8	3293.1	3227.1	3195.9	3182.5	3191.1
7.5°	3584.1	3579.3	3510.0	3402.1	3285.1	3155.1	3039.7	2933.9	2872.1	2846.9	2849.1
10°	3585.8	3565.3	3454.2	3287.2	3105.7	2915.1	2737.9	2574.7	2471.6	2404.5	2424.9
12.5°	3569.1	3534.7	3372.0	3138.5	2886.6	2626.8	2387.3	2142.4	1995.3	1927.1	1929.3
15°	3556.2	3493.9	3271.1	2963.4	2625.1	2281.0	1954.0	1666.2	1509.4	1439.6	1406.8
17.5°	3545.5	3449.9	3154.0	2766.4	2316.4	1879.9	1486.8	1230.2	1144.2	1123.8	1115.2
20°	3530.4	3403.2	3023.6	2538.2	1964.7	1431.0	1085.7	959.0	959.5	983.2	986.4
22.5°	3509.5	3350.0	2884.5	2282.0	1587.2	1042.2	851.1	814.6	851.6	896.7	904.8
25°	3478.4	3287.2	2729.9	1999.1	1210.3	801.1	727.0	725.4	770.5	817.8	824.8
27.5°	3434.3	3205.1	2558.0	1695.2	891.9	680.9	651.3	662.6	695.9	730.3	732.9
30°	3375.3	3109.5	2368.5	1374.6	699.1	606.2	603.0	613.2	633.6	657.8	659.9
32.5°	3310.3	3012.3	2166.1	1064.2	598.7	565.9	569.2	574.0	583.7	593.3	595.5
35°	3251.2	2913.0	1958.8	808.6	550.9	539.6	537.5	536.4	537.5	534.3	534.8
37.5°	3213.1	2830.8	1742.9	643.8	523.5	516.5	510.1	502.0	492.9	487.6	488.6
40°	3199.1	2769.6	1524.4	556.3	501.0	496.1	483.8	466.6	455.9	452.6	452.6
42.5°	3236.7	2737.9	1313.4	512.3	482.2	474.1	453.7	433.9	425.8	425.3	424.7
45°	3351.6	2750.8	1112.6	488.1	465.0	449.4	422.6	405.9	400.6	401.6	401.1
47.5°	3557.8	2831.9	940.7	472.0	447.8	427.4	397.3	383.9	377.5	377.5	378.0
50°	3908.5	3021.4	803.8	458.6	433.3	407.0	379.1	362.4	353.8	353.3	353.3
52.5°	4419.1	3360.8	718.4	447.3	417.2	388.8	360.8	339.9	329.7	327.5	326.5
55°	5059.1	3847.2	694.8	439.8	395.7	368.9	338.8	317.9	306.6	301.8	301.2
57.5°	5774.9	4439.0	741.5	430.6	373.7	345.3	314.7	294.8	283.0	277.1	276.5
60°	6499.2	5084.9	932.1	417.7	355.5	319.5	290.0	271.7	259.9	253.4	252.4
62.5°	7224.7	5765.8	1321.4	416.7	342.6	294.8	264.7	249.1	237.9	230.9	229.3
65°	8043.0	6511.1	1763.9	445.1	338.3	272.2	238.9	226.6	216.9	210.5	209.9
67.5°	8982.6	7352.5	1721.5	503.7	352.8	251.8	214.8	205.1	198.1	192.8	192.2
70°	9423.5	7220.9	1070.1	545.0	373.2	232.0	191.7	184.7	179.3	175.6	174.0
71°	9238.8	6856.3	897.2	540.2	371.0	223.4	182.6	177.2	171.8	168.6	167.0
72.5°	8735.1	6252.8	748.5	502.6	346.9	207.8	170.8	165.4	160.5	156.8	155.7
75°	7838.4	5584.3	599.2	401.6	276.5	175.6	149.8	143.9	140.1	138.0	135.8
77.5°	5762.0	3985.2	463.4	317.3	203.5	143.4	127.8	123.5	119.7	116.5	114.9
80°	2207.4	1543.7	312.0	236.8	149.3	113.3	103.1	100.9	97.2	95.0	95.0
82.5°	594.4	461.2	166.5	143.4	99.9	82.7	78.9	77.9	74.6	70.3	70.9
85°	240.6	203.5	93.4	78.9	61.2	48.9	53.2	53.7	49.9	44.6	45.1
87.5°	105.8	86.4	52.1	34.9	26.8	18.8	24.2	24.2	22.0	18.3	16.6
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)