Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P320150

Luminaire Tested: **GAN-SA6A-830-U-SL4**

Issue Date: 3/3/2020

Report Generated By E0585644

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P320150
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GAN-SA6A-830-U-SL4
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21047 lumens
Efficiency:	N/A
Efficacy:	109.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G5

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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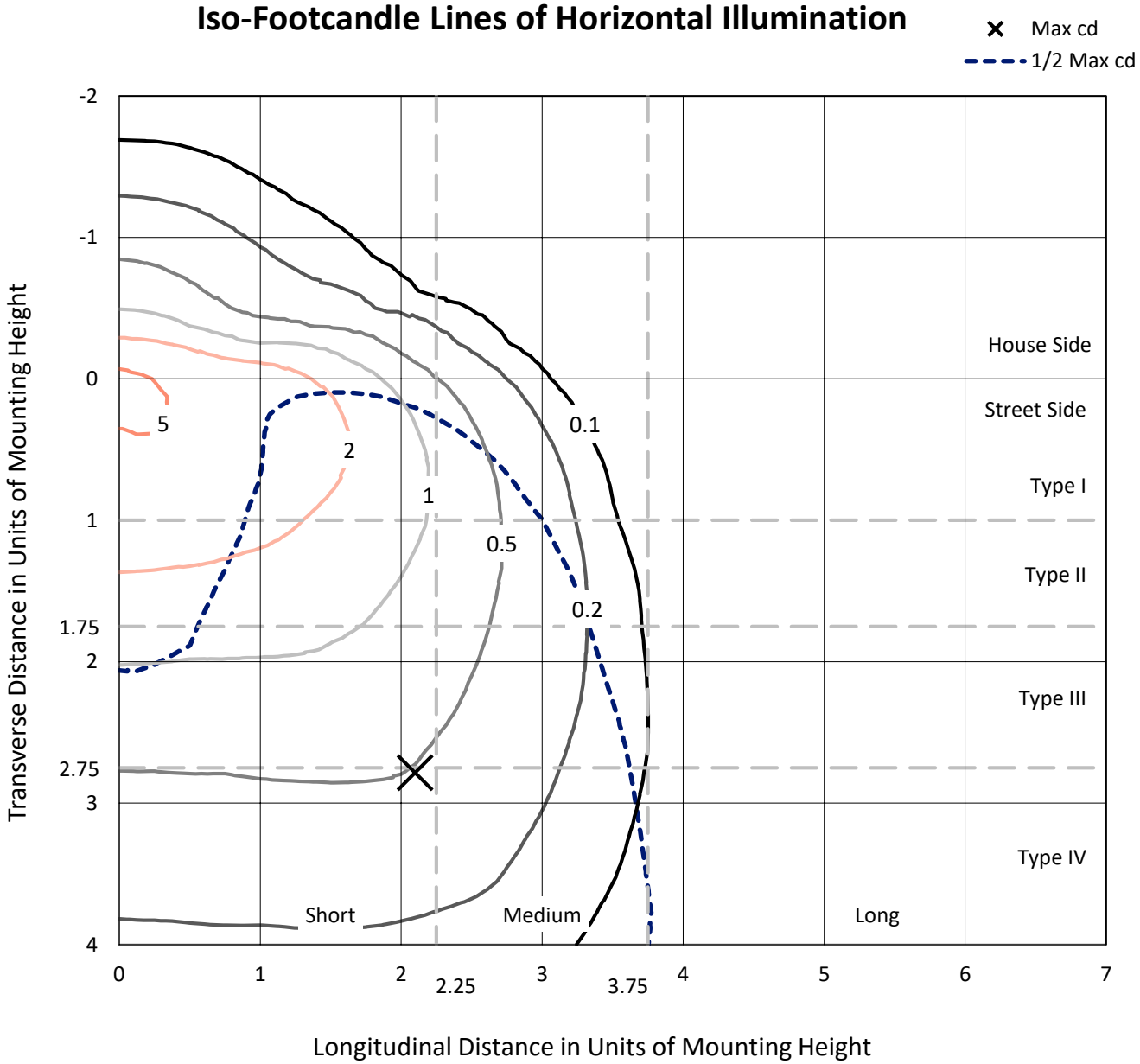
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type IV - Short - N/A

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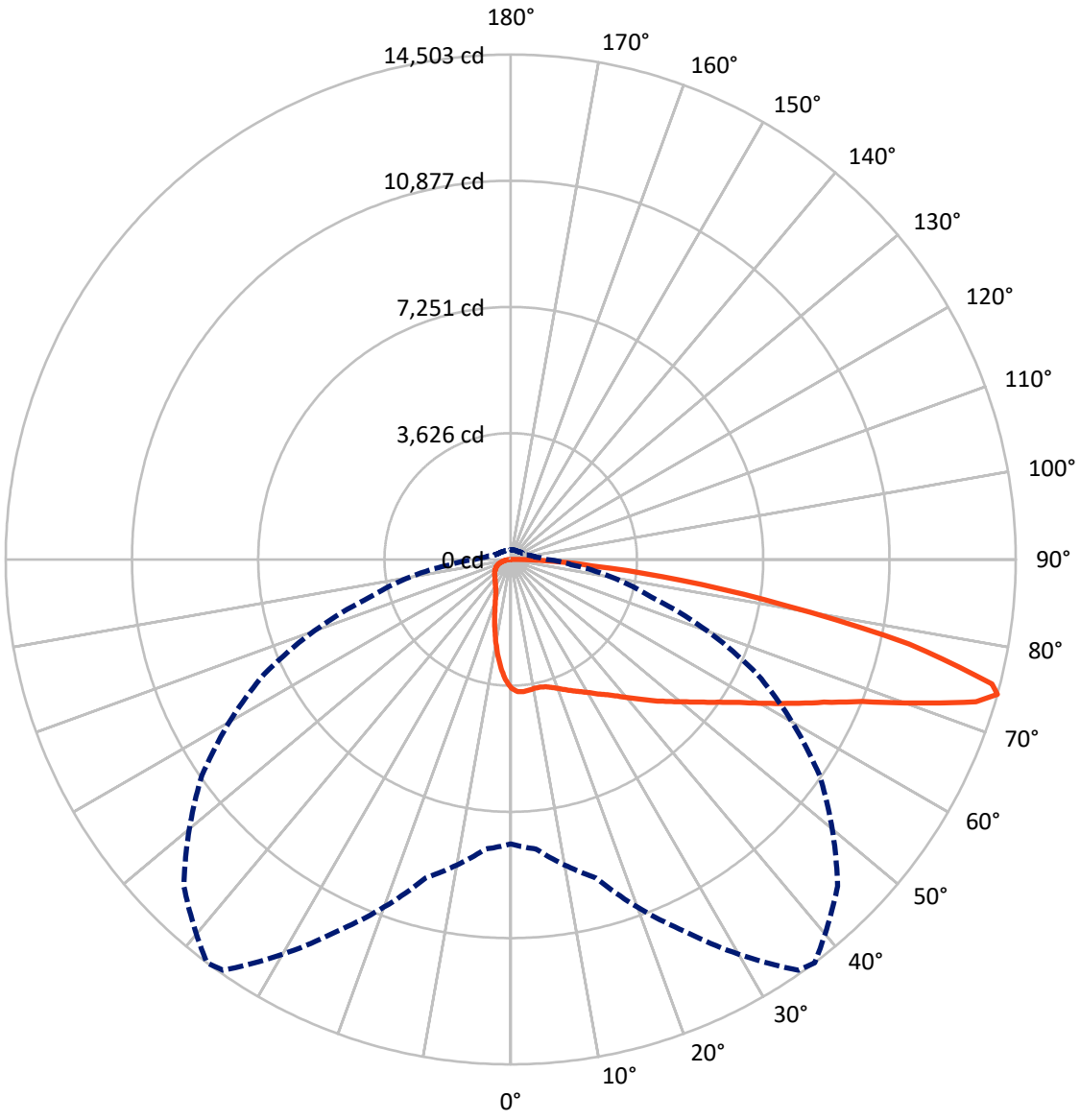
Luminous Intensity Polar Plot



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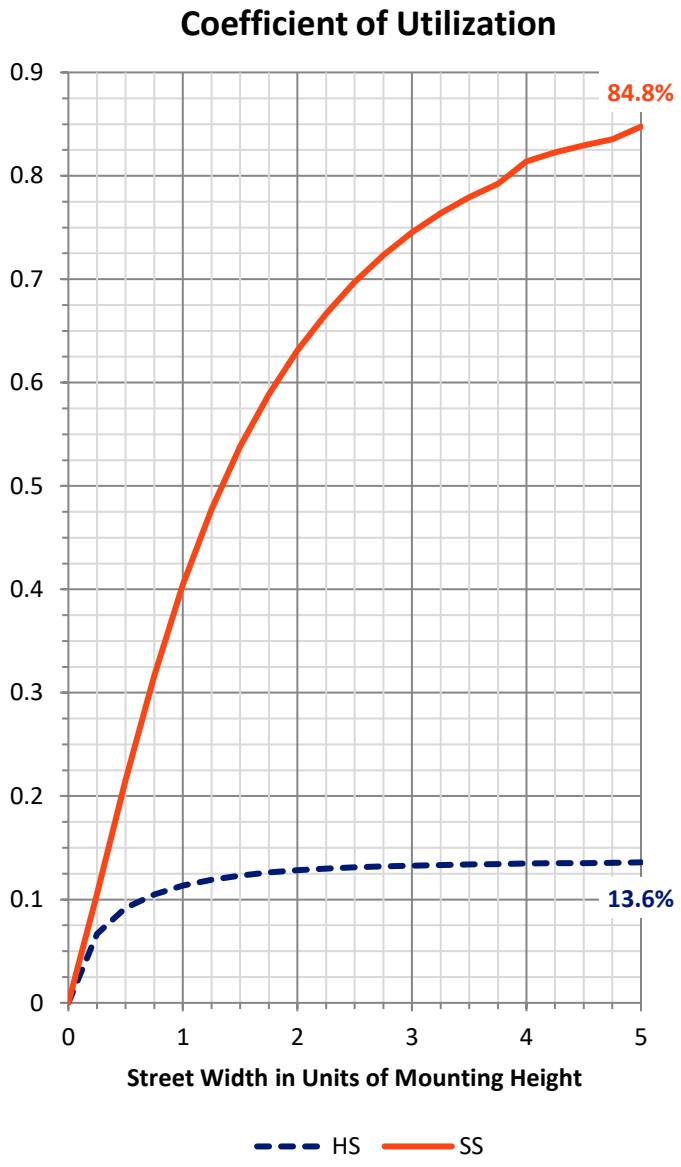
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2895.9	0.0	2895.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	18151.1	0.0	18151.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	21047.0	0.0	21047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.6	1.6
10°-20°	837.1	4.0
20°-30°	1289.8	6.1
30°-40°	1875.5	8.9
40°-50°	2760.4	13.1
50°-60°	3876.5	18.4
60°-70°	4906.5	23.3
70°-80°	4320.4	20.5
80°-90°	854.2	4.1
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°	21047.0	100.0
0°-180°	21047.0	100.0



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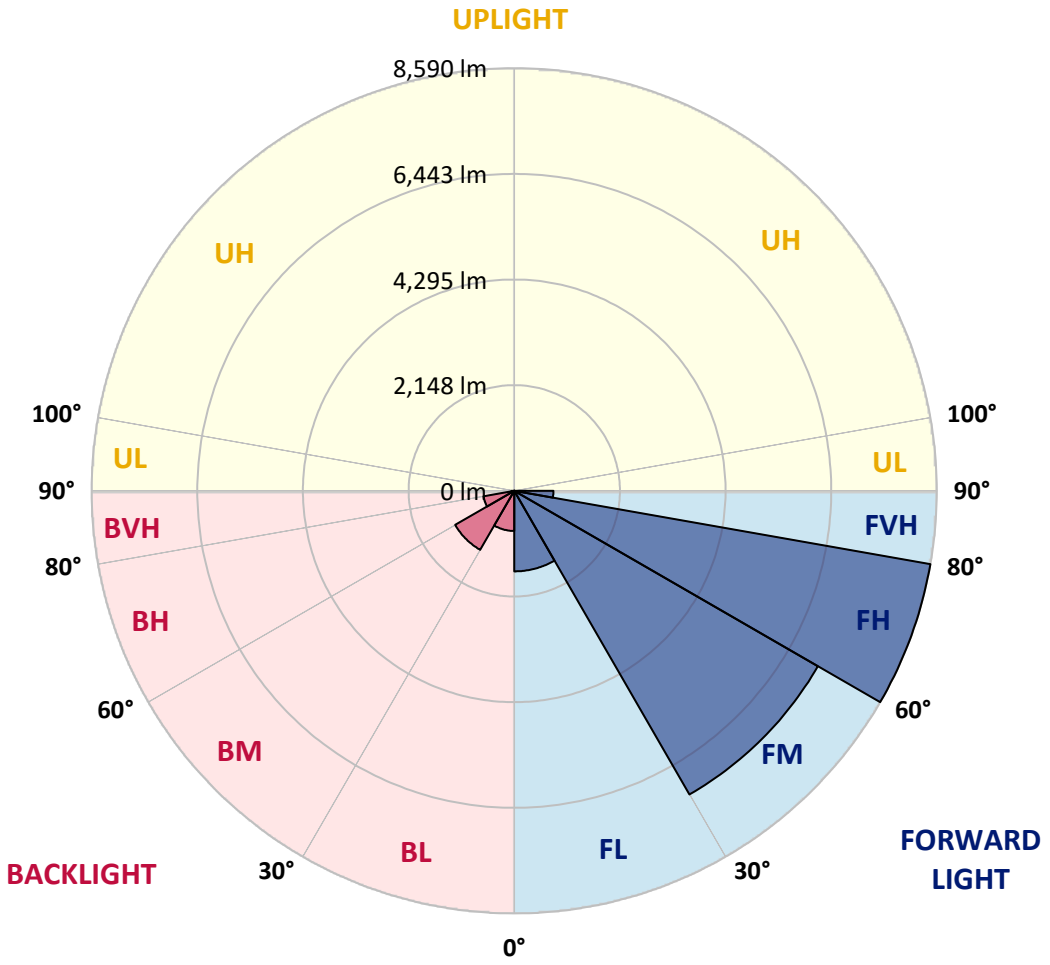
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1637.7	7.8			
FM	(30°-60°)	7126.7	33.9			
FH	(60°-80°)	8590.3	40.8			G4/12000
FVH	(80°-90°)	796.4	3.8			G5
BL	(0°-30°)	815.7	3.9	B2/1000		
BM	(30°-60°)	1385.8	6.6	B2/2500		
BH	(60°-80°)	636.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	57.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3708.4	3708.4	3708.4	3708.4	3708.4	*3708.4*	3708.4	3708.4	3708.4	3708.4	3708.4
2.5°	3835.2	3835.9	3835.2	3829.2	3815.2	*3803.3*	3793.7	3779.6	3748.4	3724.7	3689.1
5°	3871.5	3867.1	3864.1	3853.0	3830.7	*3817.4*	3798.8	3772.2	3721.0	3673.6	3615.7
7.5°	3854.5	3849.3	3842.6	3829.2	3804.0	*3792.9*	3767.0	3732.1	3670.6	3608.3	3525.3
10°	3801.8	3800.3	3797.4	3794.4	3772.9	*3764.0*	3740.3	3703.2	3642.4	3566.8	3469.7
12.5°	3743.2	3747.0	3758.8	3774.4	3764.7	*3760.3*	3745.5	3720.3	3658.0	3576.4	3459.3
15°	3706.2	3716.6	3748.4	3789.2	3797.4	*3795.9*	3792.2	3775.9	3709.9	3619.4	3483.0
17.5°	3693.6	3710.6	3771.4	3838.9	3862.6	*3867.8*	3869.3	3841.1	3767.7	3672.1	3507.5
20°	3716.6	3738.1	3827.0	3919.7	3957.5	*3960.5*	3953.8	3904.9	3822.6	3717.3	3520.8
22.5°	3786.2	3805.5	3916.7	4021.3	4064.3	*4068.7*	4048.7	3974.6	3880.4	3770.7	3539.4
25°	3920.4	3944.2	4055.4	4159.9	4182.1	*4182.9*	4154.0	4062.0	3956.0	3845.6	3579.4
27.5°	4095.4	4119.1	4219.2	4321.5	4309.7	*4303.0*	4263.7	4171.8	4054.6	3948.6	3650.6
30°	4290.4	4316.3	4411.2	4483.9	4455.7	*4442.4*	4410.5	4291.9	4191.8	4089.5	3759.6
32.5°	4492.0	4515.8	4598.8	4648.5	4612.9	*4607.0*	4558.8	4450.5	4370.5	4304.5	3936.0
35°	4698.9	4715.9	4797.5	4825.7	4778.2	*4776.7*	4763.4	4664.0	4613.6	4644.8	4192.5
37.5°	4910.2	4914.6	4984.3	4985.8	4971.7	*4977.6*	4991.7	4929.5	4943.5	5040.7	4526.1
40°	5098.5	5110.4	5160.8	5176.3	5200.8	*5221.6*	5292.0	5251.2	5360.2	5532.2	4941.3
42.5°	5237.9	5260.9	5341.7	5381.7	5461.0	*5493.7*	5593.0	5630.8	5850.3	6108.3	5435.1
45°	5355.8	5391.3	5521.1	5603.4	5737.6	*5794.7*	5937.0	6063.8	6404.1	6733.2	5954.8
47.5°	5483.3	5528.5	5690.9	5848.0	6030.4	*6094.9*	6353.7	6543.4	6995.0	7361.9	6444.8
50°	5670.8	5705.7	5864.3	6111.2	6338.8	*6421.9*	6780.0	7052.0	7595.5	7961.0	6869.7
52.5°	5932.6	5919.2	6053.4	6399.6	6705.1	*6807.4*	7235.2	7593.2	8204.1	8502.9	7228.5
55°	6195.7	6173.5	6267.7	6701.4	7132.1	*7239.6*	7736.3	8136.7	8783.2	8990.8	7503.5
57.5°	6488.6	6446.3	6525.7	7041.7	7618.5	*7746.7*	8297.6	8714.2	9352.6	9385.2	7678.5
60°	6790.3	6733.2	6822.2	7463.5	8236.0	*8387.3*	8954.4	9277.7	9889.3	9701.0	7734.9
62.5°	7054.3	7014.2	7151.4	7934.3	8932.2	*9098.3*	9599.4	9876.7	10418.7	9832.2	7531.7
65°	7284.8	7291.5	7528.7	8463.6	9708.4	*9885.6*	10339.3	10615.1	10835.3	9754.4	7056.5
67.5°	7559.9	7597.7	8002.5	9160.5	10685.6	*10879.8*	11415.8	11420.3	11068.1	9297.7	6120.9
70°	7961.0	8038.8	8654.2	10127.3	12074.9	*12341.8*	12755.5	11893.3	10741.2	8059.6	4816.0
72.5°	8316.8	8462.2	9347.4	11233.4	13768.2	*13970.6*	13539.1	11620.4	9374.8	6040.1	3000.4
74°	*8172.3*	*8352.4*	*9473.4*	*11778.4*	*14405.8*	*14502.9*	*13274.5*	*10824.2*	*7816.4*	*4182.9*	*1743.7*
75°	7860.9	8056.6	9289.5	11773.2	14325.0	*14270.9*	12635.4	9914.5	6437.4	2852.8	1160.3
77.5°	6344.0	6550.9	7827.5	10090.2	11745.7	*11694.6*	9706.2	6651.0	2819.5	935.6	589.4
80°	3688.4	3846.3	4859.0	6407.8	7920.2	*8012.9*	6383.3	3291.0	1109.1	525.6	399.6
82.5°	1638.5	1747.4	2347.2	3271.0	4779.7	*4899.1*	3342.9	1724.5	685.0	319.5	240.2
85°	1075.0	1155.8	1424.9	1557.6	2276.0	*2357.6*	1636.2	1342.6	452.2	175.7	176.4
87.5°	773.3	851.1	1058.7	924.5	1044.6	*989.0*	890.4	1242.6	181.6	100.1	59.3
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°	3708.4	3708.4	3708.4	3708.4	3708.4	3708.4	3708.4	3708.4	3708.4	3708.4	3708.4
2.5°	3673.6	3661.7	3635.0	3584.6	3556.4	3532.7	3493.4	3470.4	3460.0	3459.3	3463.7
5°	3582.4	3554.9	3486.0	3401.5	3334.0	3272.5	3196.1	3150.1	3117.5	3098.2	3103.4
7.5°	3476.3	3433.3	3325.1	3190.2	3081.9	2962.6	2844.7	2774.3	2719.4	2678.6	2686.0
10°	3403.7	3344.4	3186.5	2992.2	2812.1	2638.6	2476.2	2379.1	2302.0	2242.7	2247.1
12.5°	3379.2	3299.2	3080.4	2821.0	2568.2	2330.9	2118.9	1969.9	1890.5	1823.1	1828.3
15°	3382.9	3275.4	2991.5	2666.8	2348.7	2049.9	1792.7	1618.4	1510.9	1464.2	1465.0
17.5°	3385.9	3248.0	2898.1	2501.4	2131.5	1787.5	1508.0	1331.5	1230.0	1187.0	1187.7
20°	3376.3	3203.5	2782.4	2311.6	1904.6	1546.5	1275.9	1126.2	1049.1	1015.7	1015.7
22.5°	3363.7	3150.9	2651.9	2121.1	1680.7	1337.5	1109.9	995.7	951.2	929.0	928.2
25°	3369.6	3111.6	2518.5	1925.4	1474.6	1170.6	999.4	923.8	894.1	880.0	879.3
27.5°	3401.5	3093.1	2395.4	1730.4	1294.5	1045.4	925.2	871.9	852.6	843.7	843.7
30°	3459.3	3093.1	2267.2	1564.3	1144.7	952.7	868.2	831.8	818.5	812.6	812.6
32.5°	3560.1	3110.1	2143.3	1399.7	1025.3	880.0	820.7	796.2	785.9	782.9	782.9
35°	3733.6	3167.9	2022.5	1244.0	929.0	820.7	775.5	761.4	754.0	753.2	755.5
37.5°	3977.5	3285.8	1909.1	1129.1	860.7	772.5	737.7	726.6	722.1	725.8	728.8
40°	4284.5	3446.0	1806.0	1025.3	808.8	734.0	702.8	695.4	693.2	698.4	702.8
42.5°	4655.1	3662.4	1721.5	950.5	768.8	701.3	673.2	664.3	662.1	668.0	673.9
45°	5056.2	3895.2	1662.2	894.8	737.7	676.9	647.2	637.6	633.1	636.1	642.8
47.5°	5421.0	4115.4	1638.5	855.6	708.0	656.1	624.2	612.4	605.0	603.5	608.7
50°	5728.7	4279.3	1649.6	831.8	684.3	633.1	602.0	588.7	577.5	570.9	574.6
52.5°	5952.6	4382.3	1660.0	821.5	665.8	607.9	577.5	564.9	550.1	539.0	539.0
55°	6114.9	4406.0	1637.0	813.3	651.7	580.5	550.1	538.2	523.4	510.8	509.3
57.5°	6178.7	4339.3	1551.7	801.4	642.0	554.6	521.2	512.3	499.7	484.9	484.1
60°	6092.7	4133.2	1387.1	776.2	629.4	533.1	492.3	486.3	480.4	466.3	465.6
62.5°	5747.2	3681.0	1174.4	725.1	604.2	510.1	465.6	468.6	469.3	459.7	458.2
65°	5120.7	3059.7	966.8	658.3	566.4	482.6	438.2	452.2	460.4	458.9	456.7
67.5°	4210.3	2381.3	819.2	587.9	516.7	444.8	408.5	424.8	431.5	436.7	435.2
70°	3124.9	1679.2	677.6	513.8	456.7	400.3	370.0	378.1	373.7	379.6	381.8
72.5°	1742.3	1007.5	552.3	439.6	394.4	348.5	327.0	325.5	315.8	315.8	315.8
74°	*1045.4*	*739.2*	*485.6*	*393.7*	*356.6*	*314.3*	*295.8*	*289.1*	*280.2*	*281.0*	*280.2*
75°	840.7	635.4	445.6	363.3	329.9	294.3	275.8	266.9	260.2	260.2	259.5
77.5°	530.8	482.6	358.8	289.1	263.9	242.4	229.8	218.0	218.0	217.2	216.5
80°	401.1	384.0	279.5	218.7	202.4	186.1	177.9	172.7	172.7	175.0	174.2
82.5°	275.1	289.1	196.5	152.7	144.6	132.7	131.2	132.0	129.7	126.8	126.0
85°	200.9	217.2	132.7	96.4	88.2	80.8	86.7	89.7	86.0	79.3	76.4
87.5°	77.1	142.3	71.2	40.0	37.1	31.9	37.1	38.6	41.5	32.6	33.4
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)