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: P323668

Luminaire Tested: **GAN-SA4A-830-U-SL3-HSS**

Issue Date: 3/3/2020

Report Generated By E0585644

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P323668
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GAN-SA4A-830-U-SL3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12762 lumens
Efficiency:	N/A
Efficacy:	98.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

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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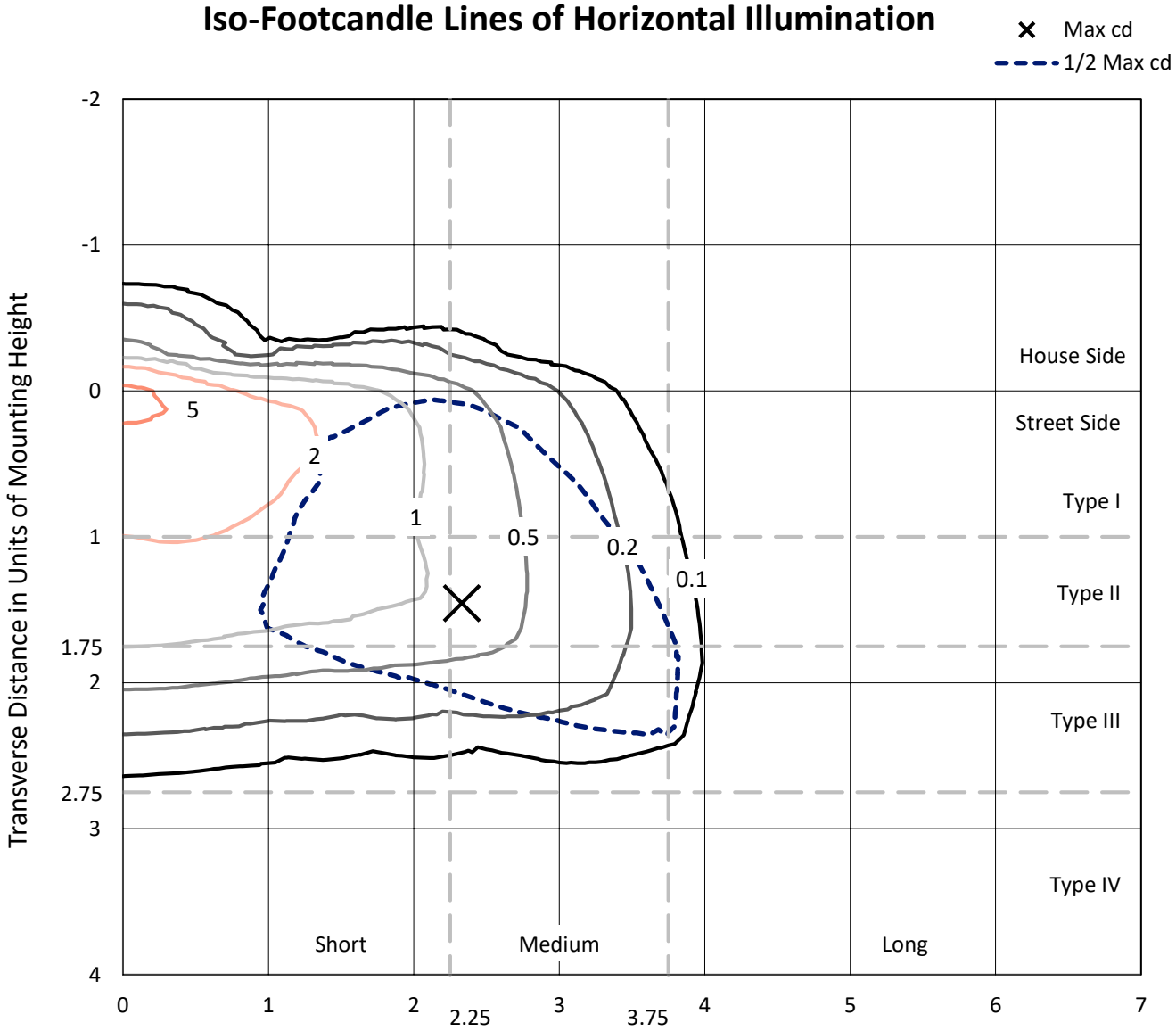
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Medium - N/A

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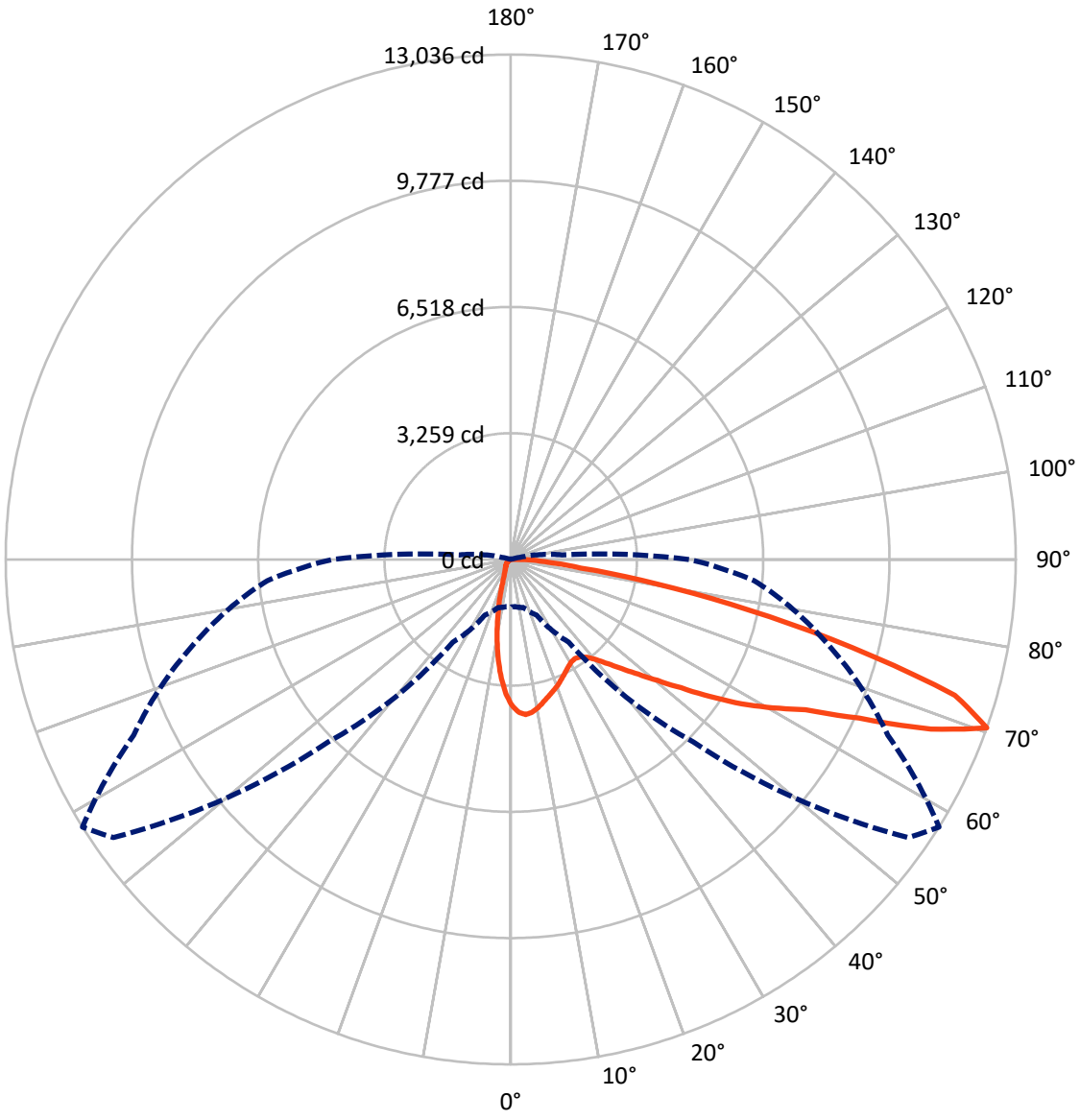
Luminous Intensity Polar Plot



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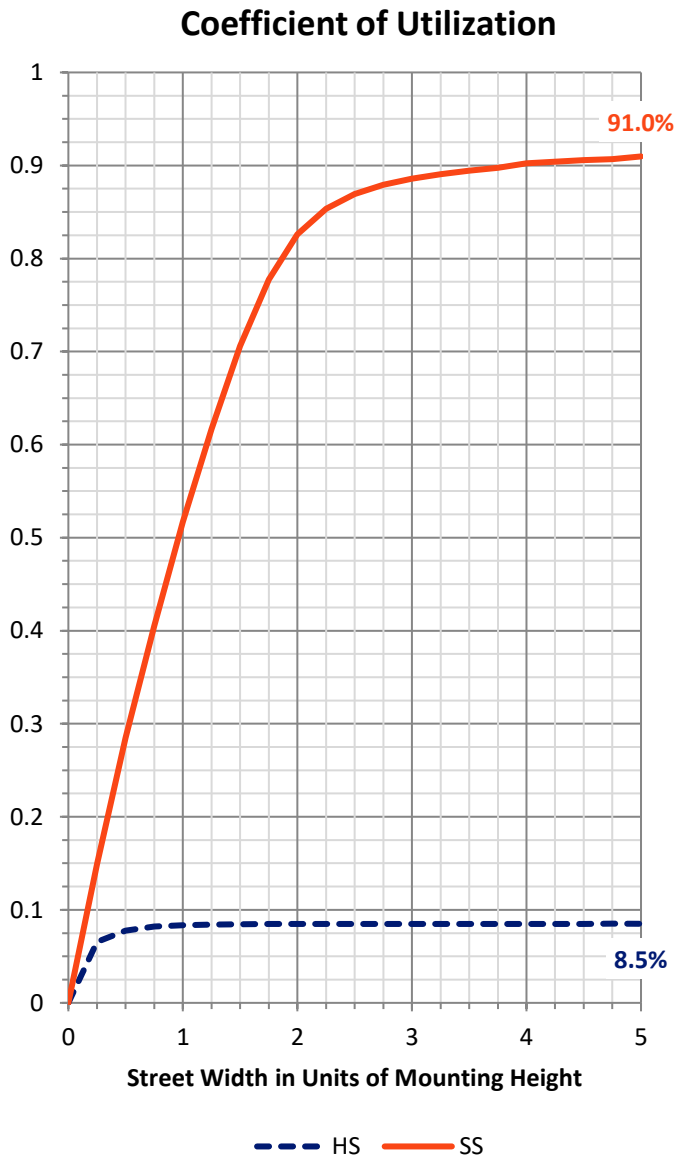
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1092.2	0.0	1092.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	11669.9	0.0	11669.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	12762.0	0.0	12762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	2.4
10°-20°	647.0	5.1
20°-30°	850.6	6.7
30°-40°	1126.5	8.8
40°-50°	1683.8	13.2
50°-60°	2697.3	21.1
60°-70°	3400.0	26.6
70°-80°	1833.9	14.4
80°-90°	214.7	1.7
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°	12762.0	100.0
0°-180°	12762.0	100.0



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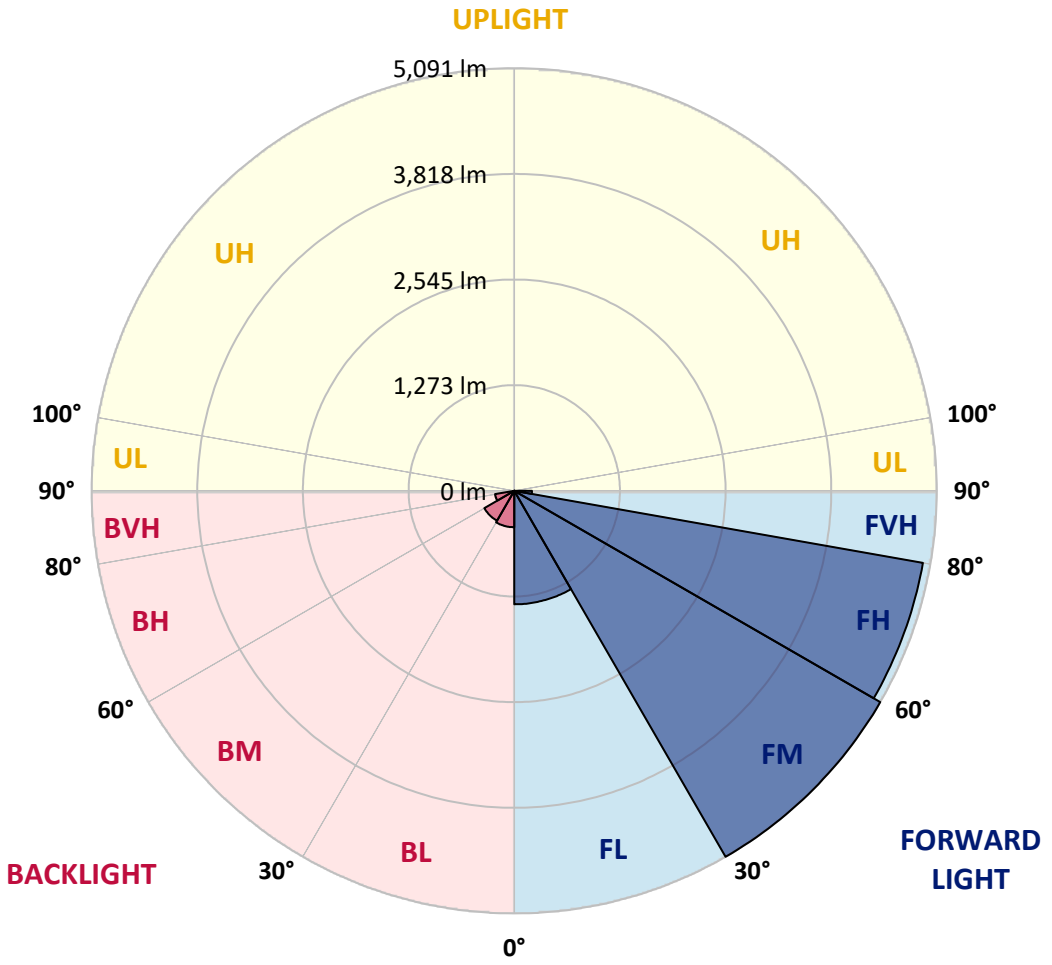
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1367.1	10.7			
FM	(30°-60°)	5091.0	39.9			
FH	(60°-80°)	4999.0	39.2			G2/5000
FVH	(80°-90°)	212.8	1.7			G2/225
BL	(0°-30°)	438.8	3.4	B1/500		
BM	(30°-60°)	416.6	3.3	B1/1000		
BH	(60°-80°)	234.9	1.8	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	*3769.8*	3769.8	3769.8	3769.8
2.5°	4082.4	4072.3	4068.6	4062.2	4037.8	4013.9	3966.7	*3953.4*	3923.7	3853.1	3778.3
5°	4085.6	4085.0	4096.2	4093.5	4085.0	4073.9	4039.9	*4022.4*	3972.0	3871.2	3734.3
7.5°	3888.7	3898.8	3923.7	3943.9	3967.2	3997.5	4001.7	*3984.8*	3943.4	3834.6	3653.1
10°	3624.4	3640.4	3675.4	3715.2	3776.2	3836.7	3890.8	*3888.7*	3874.4	3767.2	3555.4
12.5°	3359.6	3378.2	3418.5	3477.4	3563.9	3662.6	3759.2	*3772.5*	3796.4	3706.7	3465.2
15°	3127.7	3143.7	3183.5	3255.6	3362.8	3495.5	3637.2	*3661.6*	3723.1	3659.5	3389.9
17.5°	2930.9	2940.9	2970.1	3050.3	3174.4	3335.2	3519.4	*3567.1*	3658.9	3622.3	3324.6
20°	2793.4	2795.0	2814.1	2870.4	2994.5	3174.4	3397.3	*3465.8*	3591.0	3590.5	3257.2
22.5°	2725.5	2720.2	2723.9	2756.3	2847.5	3021.1	3275.3	*3356.4*	3530.0	3563.4	3188.8
25°	2712.8	2708.5	2697.9	2702.1	2757.3	2886.8	3152.1	*3246.1*	3476.4	3547.0	3129.3
27.5°	2752.6	2756.8	2738.8	2719.7	2723.9	2799.8	3042.8	*3151.6*	3432.9	3547.0	3087.4
30°	2832.7	2834.8	2821.5	2796.6	2763.2	2775.4	2966.9	*3075.7*	3411.1	3571.4	3060.9
32.5°	2921.3	2933.0	2931.4	2911.2	2863.5	2814.1	2948.9	*3048.1*	3409.5	3625.5	3058.2
35°	3031.2	3044.4	3066.7	3062.5	3012.6	2931.4	3010.5	*3088.5*	3440.8	3714.6	3086.9
37.5°	3147.9	3168.1	3215.8	3238.6	3206.3	3114.5	3148.4	*3204.1*	3524.7	3859.0	3159.6
40°	3260.9	3283.7	3370.8	3460.5	3436.0	3341.6	3357.5	*3402.1*	3673.8	4066.5	3297.5
42.5°	3371.8	3405.8	3533.7	3681.2	3710.4	3635.0	3643.5	*3679.1*	3895.1	4352.0	3523.1
45°	3504.5	3542.7	3732.2	3914.2	3992.2	3959.3	3995.4	*4018.7*	4184.3	4729.3	3827.1
47.5°	3699.3	3743.3	3975.7	4183.2	4320.1	4341.4	4414.1	*4429.4*	4549.9	5168.7	4223.6
50°	4079.2	4091.4	4301.6	4489.9	4687.4	4814.7	4897.5	*4909.2*	4992.5	5648.9	4718.7
52.5°	4557.3	4565.3	4684.2	4810.5	5034.9	5295.0	5488.7	*5505.1*	5522.6	6117.0	5207.4
55°	5032.3	5031.2	5109.8	5184.1	5440.9	5818.7	6239.0	*6249.1*	6123.3	6561.1	5581.0
57.5°	5328.9	5357.6	5477.0	5572.5	5931.2	6415.7	6998.9	*7036.1*	6754.3	6890.1	5950.3
60°	5234.5	5248.3	5513.1	5866.5	6542.0	7264.3	7767.9	*7777.4*	7228.7	7218.6	6417.3
62.5°	4459.7	4467.1	4883.2	5611.8	6851.4	8364.9	8695.5	*8540.0*	7774.2	7674.5	6976.1
65°	3056.6	3104.9	3452.5	4353.0	6283.1	9055.2	10131.4	*9874.1*	8605.8	8331.4	7481.3
67.5°	1800.0	1789.9	1961.9	2625.2	4614.7	8596.8	11947.9	*11692.1*	9739.8	8771.3	7333.2
70°	*1229.5*	*1222.6*	*1288.5*	*1589.3*	*2605.0*	*6668.8*	*12519.4*	*13035.8*	*10741.2*	*8475.2*	*6311.2*
72.5°	877.7	881.4	978.5	1234.9	1635.5	3885.5	10766.1	*11988.2*	10427.5	7388.4	4797.2
75°	595.9	606.0	745.1	1013.0	1433.9	1976.7	7640.0	*9113.1*	8491.1	5369.8	2757.3
77.5°	320.5	331.7	495.6	816.2	1296.4	1373.4	4914.5	*6271.9*	5333.7	2414.0	799.2
80°	133.7	140.1	231.9	593.3	1120.2	1206.2	2891.6	*3803.3*	2272.8	476.0	178.3
82.5°	57.8	61.0	96.6	354.0	837.4	1018.3	1531.0	*1829.7*	688.8	104.5	89.7
85°	11.1	11.7	39.8	187.3	534.4	574.7	992.3	*972.7*	309.4	45.1	65.3
87.5°	0.0	0.0	9.6	58.9	157.1	313.1	605.5	*598.1*	105.1	21.8	24.4
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°	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8
2.5°	3740.1	3703.5	3626.6	3531.6	3458.9	3378.7	3315.1	3234.4	3199.4	3201.0	3181.9
5°	3656.3	3580.9	3410.6	3195.7	3030.1	2859.2	2712.2	2565.8	2479.3	2451.1	2424.6
7.5°	3536.3	3416.9	3145.2	2814.1	2533.9	2260.1	2021.8	1812.2	1679.6	1614.8	1590.9
10°	3401.0	3233.3	2840.1	2403.9	2003.8	1633.4	1324.5	1056.0	948.8	876.1	857.6
12.5°	3282.2	3055.0	2541.9	1983.1	1508.1	1061.3	766.8	599.6	526.9	498.3	493.5
15°	3170.2	2888.4	2254.8	1602.1	1044.3	653.2	487.7	430.9	413.9	409.1	409.1
17.5°	3064.6	2729.7	1974.1	1226.9	690.9	458.0	403.8	391.1	385.8	385.3	385.8
20°	2954.2	2571.1	1698.1	898.9	482.4	387.9	373.1	366.2	364.6	364.6	364.6
22.5°	2848.6	2412.4	1429.6	642.1	386.9	354.0	346.5	341.7	340.2	339.6	338.6
25°	2747.2	2261.7	1167.5	453.7	339.6	324.2	317.9	311.5	306.7	304.1	302.5
27.5°	2663.9	2127.4	923.4	364.0	306.7	293.5	285.5	275.9	264.3	259.0	256.8
30°	2597.6	2004.8	711.6	307.3	275.9	262.7	250.5	234.0	217.0	208.0	207.5
32.5°	2545.6	1884.4	540.2	271.7	248.4	231.9	214.4	193.7	174.1	164.0	163.4
35°	2520.1	1778.3	412.9	245.7	223.9	203.2	181.5	158.7	139.6	130.0	129.0
37.5°	2537.1	1688.6	322.1	223.9	203.2	179.4	153.9	130.0	113.0	104.5	104.0
40°	2599.2	1631.3	261.6	205.4	185.7	156.5	129.0	106.7	92.3	85.4	84.9
42.5°	2731.3	1610.0	223.4	190.0	168.8	135.3	107.2	88.1	74.8	70.0	69.0
45°	2952.1	1641.3	197.4	175.1	151.2	115.2	88.6	72.2	60.5	56.8	56.3
47.5°	3246.1	1723.6	178.8	160.8	135.3	97.1	73.8	58.4	49.4	45.6	45.1
50°	3625.0	1854.1	163.4	146.5	120.5	82.3	61.0	46.2	38.2	35.6	35.6
52.5°	4037.3	2009.6	149.6	133.2	105.6	68.5	49.4	35.6	30.2	27.1	27.1
55°	4378.0	2145.5	134.8	123.1	87.6	56.8	37.7	27.1	22.3	20.7	20.7
57.5°	4718.1	2290.3	117.8	105.6	70.0	46.2	28.7	20.2	16.5	15.4	15.4
60°	5159.1	2467.6	101.4	86.0	55.2	35.0	21.2	14.3	12.2	11.7	11.7
62.5°	5644.1	2571.6	86.5	69.0	43.0	26.0	15.4	9.6	9.0	9.0	8.5
65°	5940.8	2424.6	72.7	55.2	33.4	19.6	10.1	6.9	8.0	7.4	6.4
67.5°	5562.4	1898.2	59.4	43.0	26.0	14.9	6.4	4.8	8.5	6.9	5.3
70°	*4605.6*	*1328.8*	*46.2*	*30.2*	*20.7*	*12.7*	*4.2*	*3.2*	*9.0*	*6.9*	*4.2*
72.5°	3446.7	889.4	36.6	20.2	15.4	11.1	3.7	1.6	8.0	5.8	3.7
75°	1883.3	358.2	29.2	12.7	9.6	8.0	2.7	1.1	5.3	4.2	2.7
77.5°	495.6	94.5	21.2	8.5	5.3	3.2	1.6	0.5	2.7	2.1	1.1
80°	126.3	36.6	13.8	5.8	3.7	1.6	0.0	0.0	0.5	0.0	0.0
82.5°	67.4	15.4	8.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.9	10.1	4.8	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.6	3.2	1.6	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)