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: P322146

Luminaire Tested: **GAN-SA2A-727-U-T3-HSS**

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:	P322146
	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-SA2A-727-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 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:	5812 lumens
Efficiency:	N/A
Efficacy:	88.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	66
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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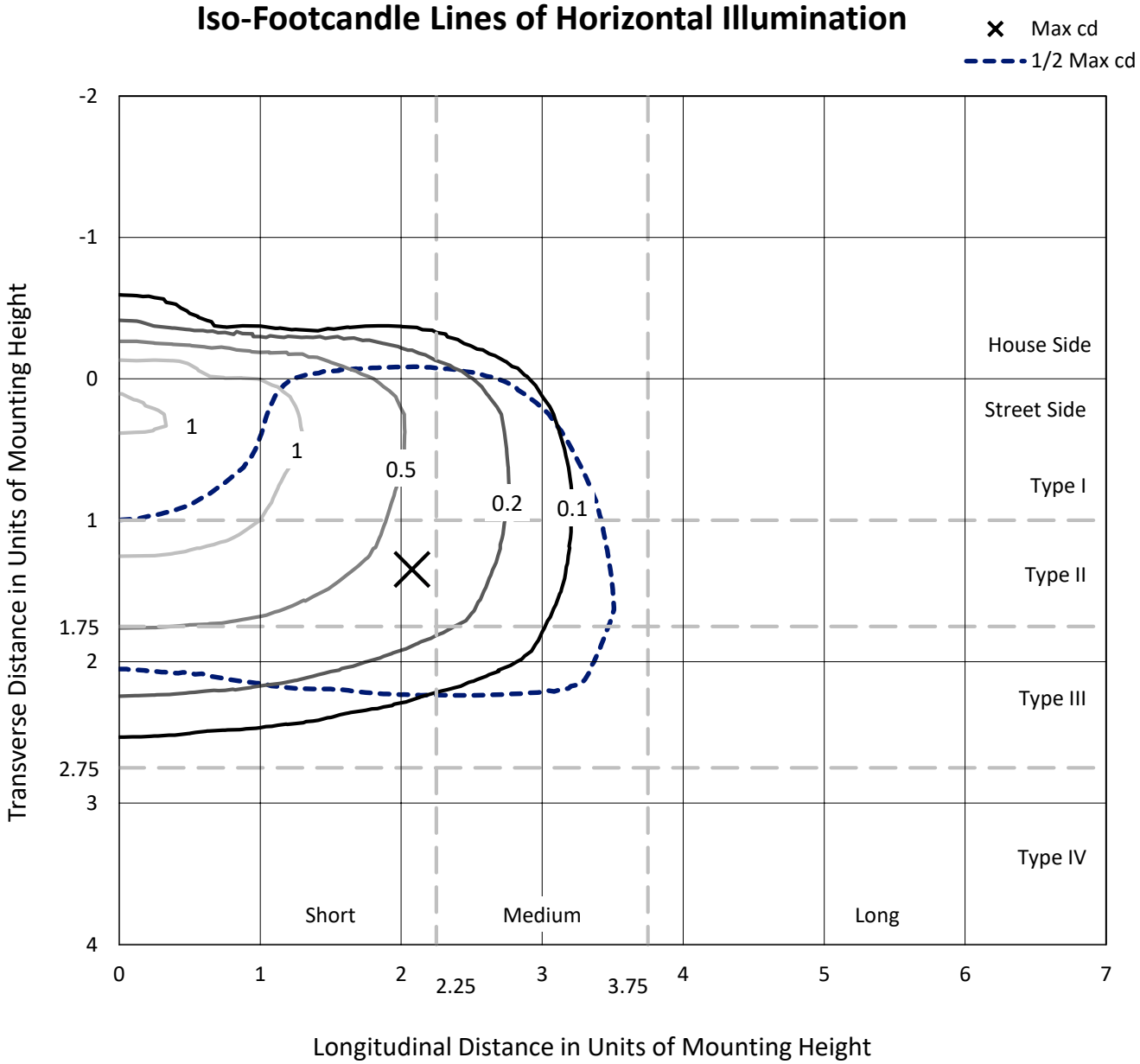
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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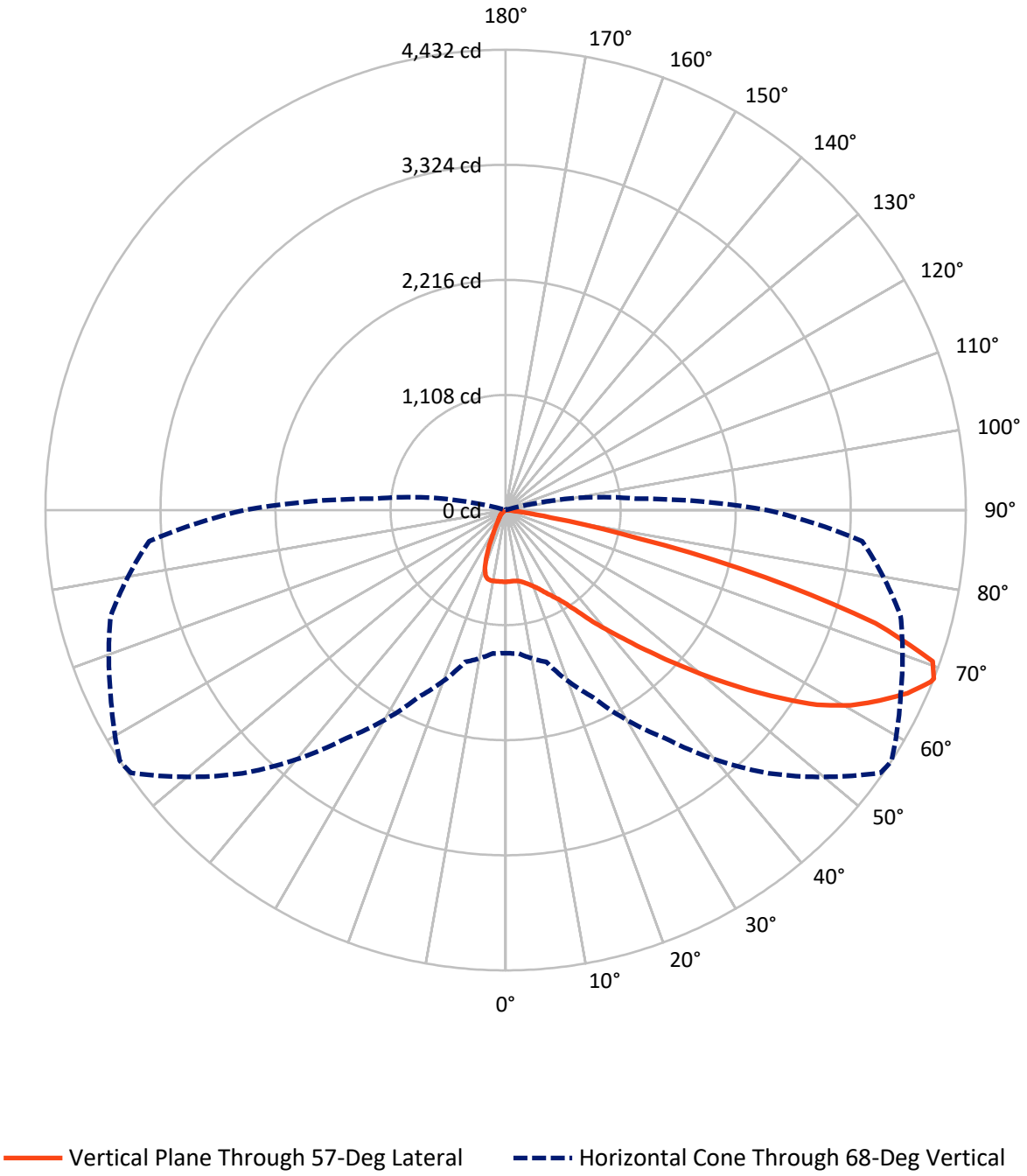
Luminous Intensity Polar Plot



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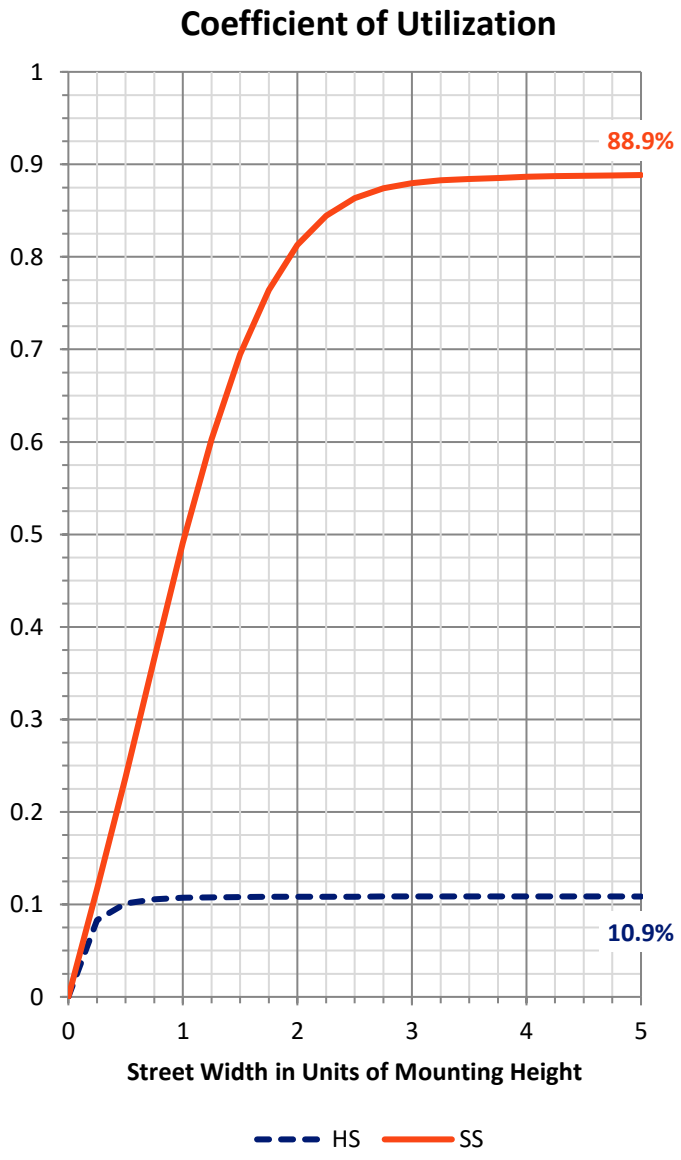
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.3	0.0	637.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	5174.7	0.0	5174.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	5812.0	0.0	5812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	1.1
10°-20°	179.1	3.1
20°-30°	309.0	5.3
30°-40°	533.3	9.2
40°-50°	912.1	15.7
50°-60°	1459.3	25.1
60°-70°	1686.1	29.0
70°-80°	644.3	11.1
80°-90°	24.1	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°	5812.0	100.0
0°-180°	5812.0	100.0



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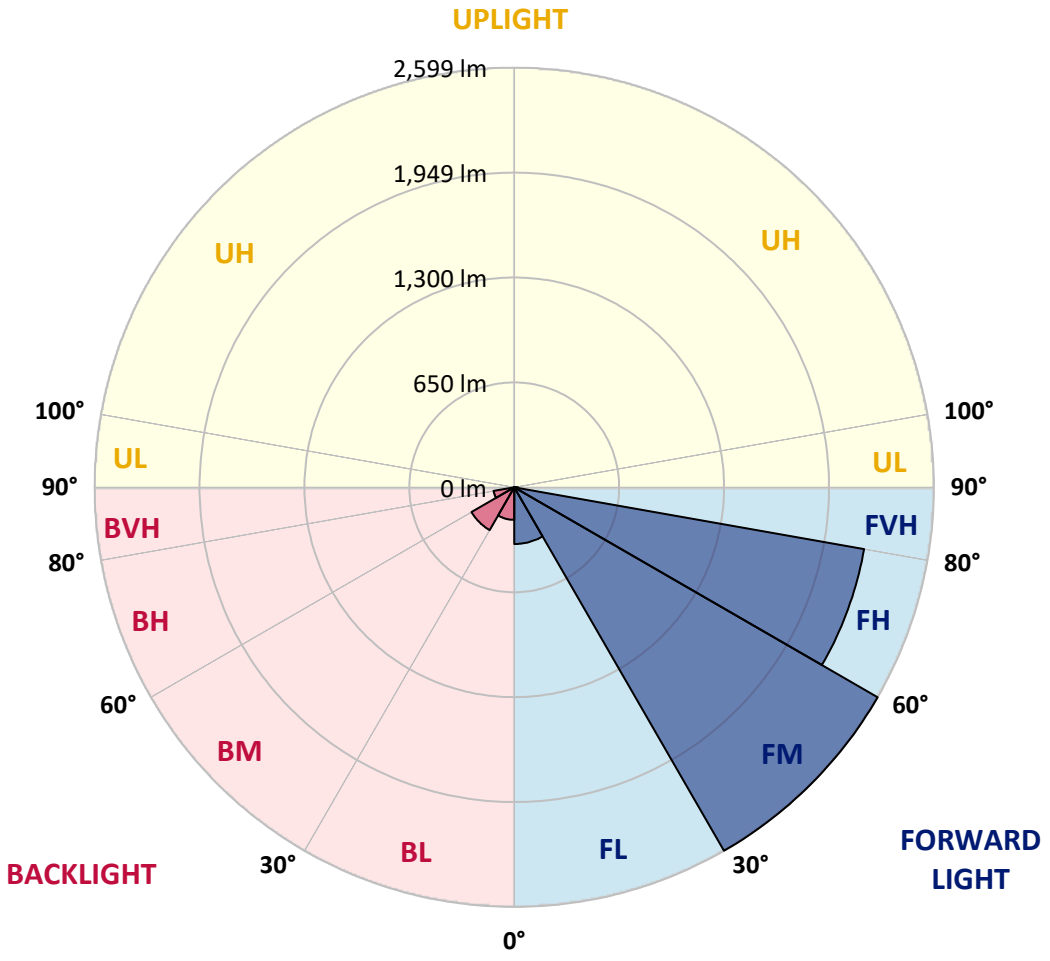
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	351.3	6.0			
FM	(30°-60°)	2599.1	44.7			
FH	(60°-80°)	2200.6	37.9			G2/5000
FVH	(80°-90°)	23.7	0.4			G1/100
BL	(0°-30°)	201.4	3.5	B1/500		
BM	(30°-60°)	305.7	5.3	B1/1000		
BH	(60°-80°)	129.8	2.2	B1/500		G1/500
BVH	(80°-90°)	0.4	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	690.6	690.6	690.6	690.6	690.6	690.6	690.6	*690.6*	690.6	690.6	690.6
2.5°	674.4	677.4	679.6	681.0	682.6	686.2	687.3	*689.0*	689.8	689.8	691.7
5°	647.7	651.0	655.7	659.6	667.3	677.2	684.3	*687.0*	692.0	696.4	698.9
7.5°	623.0	626.9	632.4	641.4	654.6	670.6	685.4	*689.2*	698.9	708.2	712.9
10°	607.1	610.1	617.2	630.2	647.5	669.7	690.6	*695.3*	711.8	727.4	736.2
12.5°	601.6	604.3	611.7	626.3	647.7	673.9	702.7	*709.6*	733.8	756.6	768.9
15°	609.5	610.1	618.1	631.8	653.0	684.0	722.8	*731.0*	761.5	791.2	806.6
17.5°	640.3	637.9	642.0	648.0	664.8	697.5	743.9	*756.3*	797.0	831.9	846.4
20°	717.3	717.3	707.9	691.4	691.7	718.4	772.5	*786.5*	836.3	876.7	889.9
22.5°	848.9	846.4	827.8	787.4	750.3	754.4	807.4	*825.6*	883.5	926.7	931.1
25°	1007.2	1004.2	975.3	918.4	854.1	812.6	854.7	*875.6*	939.9	978.1	969.0
27.5°	1174.8	1172.4	1143.8	1073.2	981.7	905.5	911.0	*930.8*	997.3	1035.0	1006.1
30°	1337.3	1338.1	1309.8	1237.2	1133.6	1024.0	982.5	*994.0*	1053.1	1091.3	1050.1
32.5°	1491.7	1492.8	1468.4	1387.3	1290.5	1161.7	1081.4	*1078.4*	1118.0	1155.6	1108.3
35°	1629.4	1632.1	1615.4	1552.4	1449.9	1315.0	1209.8	*1202.6*	1210.0	1252.6	1197.7
37.5°	1762.1	1763.8	1751.1	1698.1	1612.4	1483.5	1371.9	*1361.7*	1345.8	1378.5	1315.6
40°	1907.5	1903.4	1888.8	1840.7	1767.1	1669.5	1546.1	*1528.5*	1500.8	1529.9	1470.6
42.5°	2042.7	2038.1	2040.5	1986.1	1924.0	1860.8	1749.2	*1719.0*	1702.8	1736.3	1660.7
45°	2211.7	2209.3	2217.5	2170.2	2119.9	2074.1	1982.0	*1949.0*	1941.9	1981.2	1890.8
47.5°	2378.6	2384.6	2410.2	2390.1	2369.8	2329.4	2228.5	*2213.7*	2218.1	2265.6	2133.4
50°	2517.6	2524.8	2594.8	2617.9	2647.3	2623.7	2522.6	*2513.5*	2530.8	2573.7	2394.5
52.5°	2618.2	2632.8	2719.9	2826.2	2933.4	2949.4	2848.5	*2840.2*	2863.6	2870.2	2596.2
55°	2688.0	2700.9	2799.6	2994.1	3212.4	3281.1	3218.4	*3186.5*	3182.1	3117.0	2808.4
57.5°	2700.4	2699.0	2840.8	3102.7	3431.1	3608.4	3568.8	*3537.5*	3447.3	3345.1	3051.6
60°	2630.6	2638.5	2803.1	3140.4	3568.5	3856.0	3859.0	*3818.3*	3677.9	3566.9	3287.4
62.5°	2415.7	2448.1	2614.3	3041.7	3566.9	3955.7	4071.7	*4040.7*	3872.7	3748.5	3526.5
65°	2067.2	2078.7	2237.3	2703.7	3325.9	3914.0	4263.3	*4251.7*	4048.4	3925.0	3649.3
67.5°	1509.6	1484.6	1651.1	2129.0	2815.8	3670.5	4400.7	*4415.2*	4183.8	3961.2	3518.5
68°	*1377.7*	*1385.1*	*1514.8*	*1986.9*	*2682.2*	*3584.5*	*4409.7*	*4432.0*	*4197.3*	*3937.6*	*3447.0*
70°	821.2	835.4	951.1	1368.0	2040.5	3097.8	4311.9	*4362.7*	4117.1	3693.8	2981.5
72.5°	209.7	226.7	336.1	612.3	1165.5	2182.6	3640.0	*3726.0*	3574.6	2996.6	2012.8
75°	86.3	90.7	120.1	201.7	434.2	983.3	2399.2	*2583.3*	2478.0	1794.0	909.6
77.5°	59.6	62.7	77.2	111.9	188.0	333.4	1176.2	*1309.2*	1179.5	612.3	198.4
80°	42.9	45.3	55.2	74.5	108.0	119.0	383.4	*443.3*	352.0	134.4	49.2
82.5°	25.6	27.5	41.2	53.0	65.7	56.9	95.4	*108.3*	102.0	66.8	22.0
85°	12.6	14.8	27.8	37.9	35.5	23.9	29.1	*32.4*	40.1	40.7	11.8
87.5°	0.8	1.6	16.2	22.8	9.9	5.5	8.5	*10.4*	14.3	20.1	4.9
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°	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6	690.6
2.5°	692.5	692.8	690.9	690.1	690.6	687.3	685.9	686.5	686.5	687.3	685.9
5°	699.4	699.4	696.1	691.7	689.2	682.9	678.8	677.7	676.9	676.3	675.2
7.5°	714.3	712.6	706.8	697.2	689.0	675.2	664.8	659.3	656.5	655.4	654.6
10°	738.2	735.1	725.5	707.7	688.7	664.2	641.4	625.2	611.7	606.2	603.0
12.5°	770.3	765.9	749.7	720.0	686.8	641.7	592.2	544.7	500.4	482.3	473.2
15°	807.4	801.1	775.5	730.5	675.5	590.9	483.4	400.1	338.9	315.8	305.9
17.5°	845.1	836.8	798.1	737.1	641.7	485.6	339.1	256.1	215.2	204.2	200.3
20°	883.0	870.9	817.6	732.1	565.3	350.1	223.7	187.2	175.3	172.0	170.9
22.5°	919.0	900.3	835.2	712.9	447.7	235.0	177.0	165.4	161.6	159.7	159.1
25°	950.3	924.2	850.6	653.5	316.9	177.5	159.4	155.5	150.6	147.0	147.3
27.5°	979.7	948.1	859.9	555.7	211.3	151.7	147.6	142.4	133.3	128.1	128.1
30°	1015.2	980.0	866.8	427.6	155.5	134.1	130.8	122.8	110.5	103.6	103.6
32.5°	1068.5	1028.4	862.4	300.1	128.9	117.9	110.2	99.2	85.7	79.1	78.9
35°	1150.1	1103.1	831.1	196.8	113.8	102.5	90.1	76.7	64.9	59.4	59.1
37.5°	1260.0	1203.2	760.7	140.7	102.0	88.2	73.4	58.5	49.7	46.2	45.9
40°	1402.7	1319.4	660.1	114.0	91.0	74.5	56.6	45.3	39.3	36.6	36.8
42.5°	1573.9	1443.9	539.5	98.4	80.2	61.3	44.2	35.7	31.9	30.0	29.4
45°	1764.1	1566.7	413.1	87.7	69.5	49.5	34.6	28.3	25.3	24.2	24.2
47.5°	1973.2	1686.3	302.3	78.3	58.0	38.2	27.8	23.1	20.6	19.8	19.5
50°	2163.1	1769.3	217.9	68.4	47.5	30.2	22.5	19.2	17.6	16.5	16.5
52.5°	2321.4	1795.4	160.5	57.7	38.5	24.2	18.7	16.5	14.8	14.0	14.0
55°	2460.7	1784.7	119.3	47.5	31.1	19.8	15.9	14.0	12.6	11.8	11.8
57.5°	2594.3	1750.0	89.0	38.7	25.0	15.9	13.5	11.8	10.4	9.9	9.9
60°	2703.4	1692.3	66.2	31.3	20.1	12.9	11.3	9.6	8.5	7.7	7.7
62.5°	2791.9	1628.6	48.6	25.8	15.9	10.2	8.8	8.0	6.3	5.5	5.5
65°	2792.4	1522.8	36.6	21.4	12.4	8.0	6.6	6.3	4.1	3.3	3.0
67.5°	2590.4	1312.8	28.0	18.4	9.6	6.0	4.9	5.2	2.2	1.4	1.1
68°	*2517.1*	*1259.5*	*26.4*	*18.1*	*9.1*	*5.8*	*4.7*	*5.2*	*1.9*	*1.1*	*0.8*
70°	2122.1	1002.0	21.2	17.6	8.0	4.4	3.8	5.2	1.6	0.8	0.5
72.5°	1357.3	581.5	15.7	14.0	6.0	3.3	2.5	4.7	1.6	0.5	0.3
75°	577.7	180.3	10.7	9.9	3.6	2.5	1.6	3.0	1.1	0.3	0.0
77.5°	121.7	40.7	6.3	6.0	2.5	1.6	1.1	0.8	0.3	0.0	0.0
80°	31.3	11.8	3.3	3.0	1.4	0.8	0.5	0.0	0.0	0.0	0.0
82.5°	9.9	4.7	1.9	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.9	2.7	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.8	0.3	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)