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: P381200

Luminaire Tested: **USSL-XL-PA3A-750-U-T2R-HSS**

Issue Date: 3/3/2020

Report Generated By E9812814

Test Information

Test Method:	LM-79-08
Report Number:	P381200
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	USSL-XL-PA3A-750-U-T2R-HSS
Description:	PREVAIL AREA AND ROADWAY LUMINAIRE
	(3) 70 CRI, 5000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19521.1 lumens
Efficiency:	N/A
Efficacy:	113.5 lumens/watt
Luminous Opening:	Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification:	Type II - Medium - Full Cutoff
BUG Rating:	B1 - U0 - G3

Input Watts (W):	172
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:	28.75 FT

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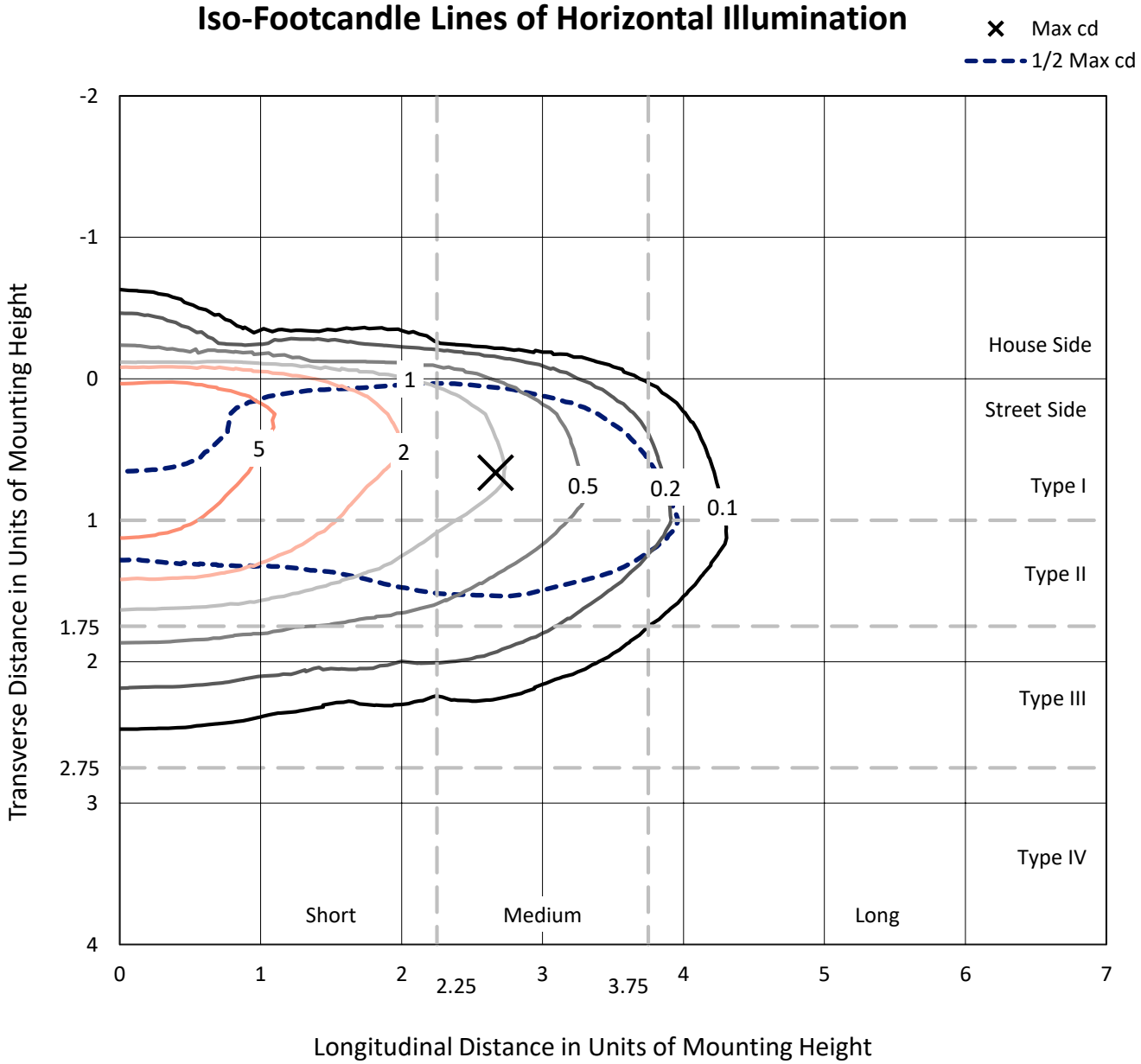
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type II - Medium - Full Cutoff

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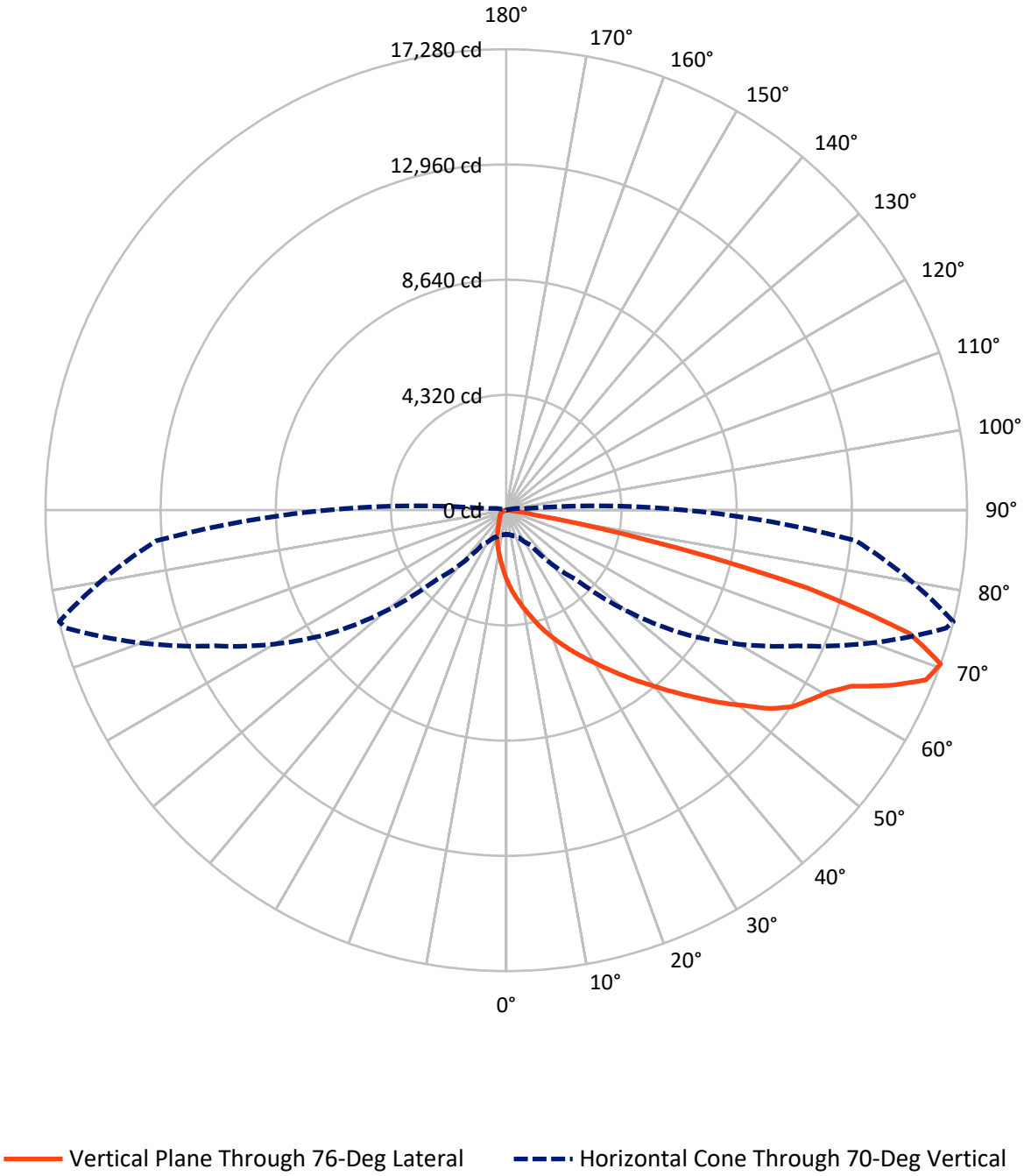
Luminous Intensity Polar Plot



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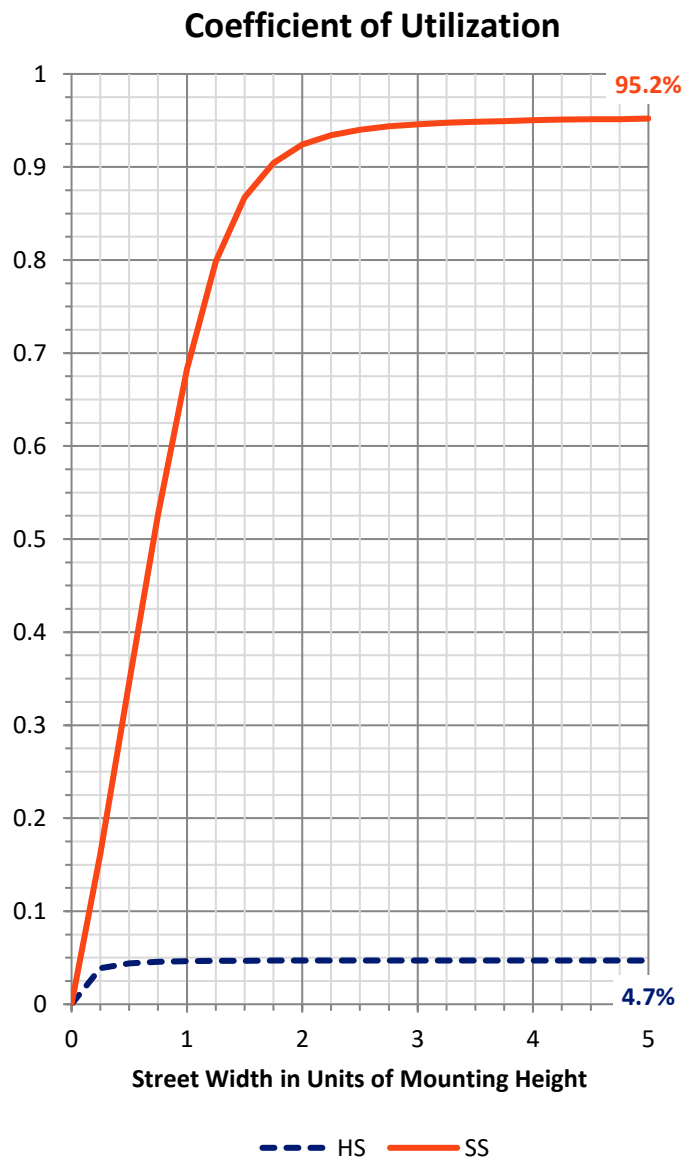
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	920.7	0.0	920.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	18600.3	0.0	18600.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	19521.1	0.0	19521.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	1.3
10°-20°	794.5	4.1
20°-30°	1479.6	7.6
30°-40°	2617.2	13.4
40°-50°	4002.2	20.5
50°-60°	4537.6	23.2
60°-70°	3889.8	19.9
70°-80°	1884.0	9.7
80°-90°	69.9	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°	19521.1	100.0
0°-180°	19521.1	100.0



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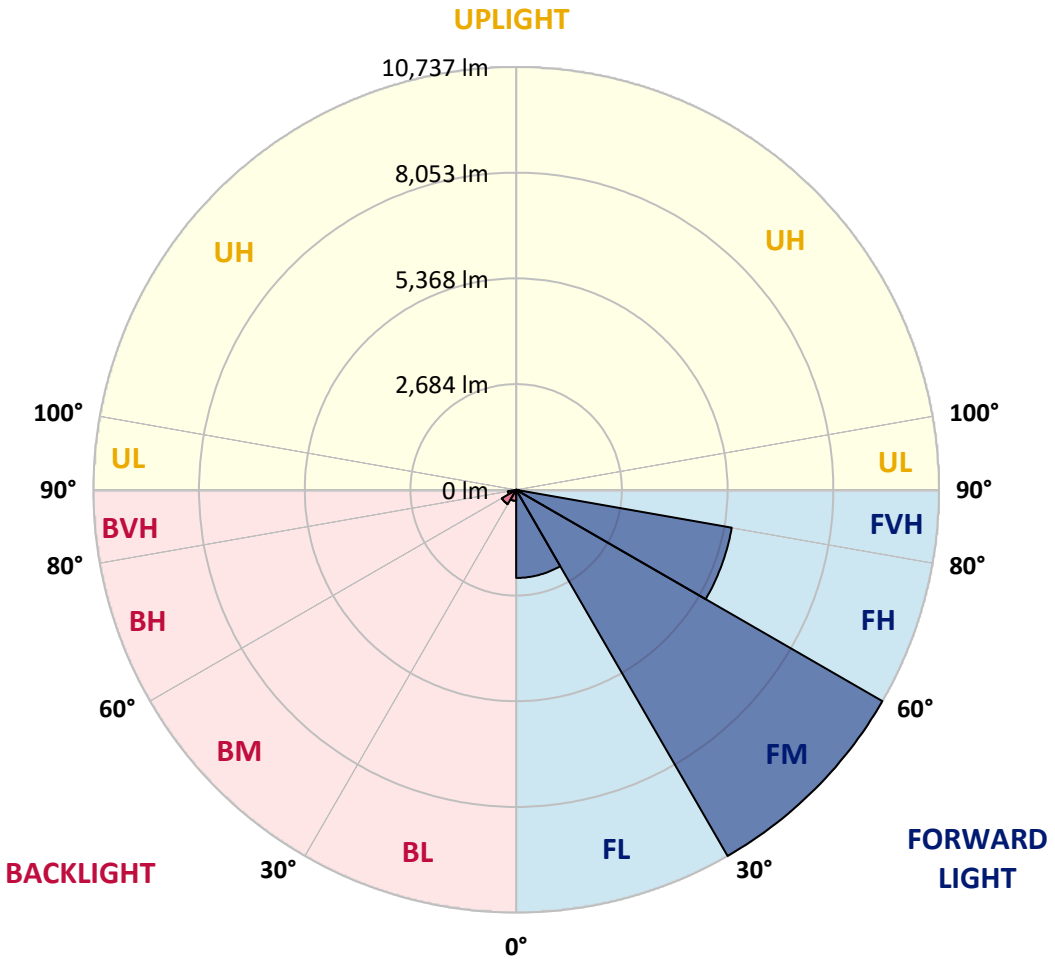
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2237.9	11.5			
FM	(30°-60°)	10736.7	55.0			
FH	(60°-80°)	5557.1	28.5			G3/7500
FVH	(80°-90°)	68.7	0.4			G1/100
BL	(0°-30°)	282.4	1.4	B1/500		
BM	(30°-60°)	420.3	2.2	B1/1000		
BH	(60°-80°)	216.8	1.1	B1/500		G1/500
BVH	(80°-90°)	1.2	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-G3
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	*2613.0*	2613.0
2.5°	3571.8	3552.3	3532.8	3458.0	3389.8	3328.0	3211.0	3058.3	2921.8	*2892.5*	2733.3
5°	4195.8	4173.0	4143.8	4069.0	3981.3	3877.3	3705.0	3471.0	3230.5	*3178.5*	2882.8
7.5°	4618.3	4598.8	4556.5	4520.8	4433.0	4332.3	4140.5	3867.5	3536.0	*3471.0*	3055.0
10°	4907.5	4894.5	4888.0	4858.8	4793.8	4712.5	4520.8	4234.8	3844.8	*3770.0*	3237.0
12.5°	5011.5	5011.5	5044.0	5092.8	5102.5	5076.5	4901.0	4615.0	4169.8	*4091.8*	3451.5
15°	4871.8	4888.0	4959.5	5115.5	5278.0	5385.3	5274.8	5008.3	4527.3	*4442.8*	3705.0
17.5°	4832.8	4849.0	4897.8	5034.3	5252.0	5538.0	5593.3	5388.5	4865.3	*4793.8*	3965.0
20°	4943.3	4959.5	5001.8	5118.8	5284.5	5573.8	5804.5	5755.8	5222.8	*5148.0*	4228.3
22.5°	5206.5	5216.3	5216.3	5307.3	5453.5	5668.0	5937.8	6103.5	5590.0	*5508.8*	4488.3
25°	5772.0	5752.5	5674.5	5629.0	5723.3	5898.8	6106.8	6409.0	5999.5	*5889.0*	4767.8
27.5°	6513.0	6578.0	6389.5	6171.8	6100.3	6201.0	6344.0	6678.8	6396.0	*6279.0*	5021.3
30°	7517.3	7491.3	7244.3	6932.3	6623.5	6587.8	6636.5	6909.5	6792.5	*6682.0*	5304.0
32.5°	8342.8	8391.5	8131.5	7751.3	7289.8	7072.0	7020.0	7185.8	7215.0	*7143.5*	5638.8
35°	9191.0	9243.0	8989.5	8567.0	8017.8	7653.8	7504.3	7527.0	7738.3	*7647.3*	5989.8
37.5°	9951.5	9997.0	9746.8	9314.5	8765.3	8320.0	8105.5	7930.0	8245.3	*8164.0*	6360.3
40°	10530.0	10536.5	10367.5	9980.8	9460.8	8999.3	8755.5	8411.0	8781.5	*8726.3*	6747.0
42.5°	10939.5	10952.5	10829.0	10497.5	10016.5	9587.5	9389.3	8979.8	9399.0	*9350.3*	7195.5
45°	11131.3	11154.0	11141.0	10835.5	10435.8	10065.3	10000.3	9584.3	10075.0	*10029.5*	7712.3
47.5°	10949.3	10949.3	11115.0	11072.8	10705.5	10458.5	10533.3	10214.8	10809.5	*10767.3*	8238.8
50°	10192.0	10201.8	10539.8	11024.0	10809.5	10754.3	10988.3	10832.3	11475.8	*11501.8*	8869.3
52.5°	8203.0	8186.8	9327.5	10257.0	10738.0	10887.5	11407.5	11462.8	12275.3	*12353.3*	9496.5
55°	6129.5	6119.8	7211.8	8898.5	10237.5	10819.3	11641.5	12025.1	12957.8	*13006.6*	9964.5
57.5°	4852.3	4826.3	5427.5	7172.8	9106.5	10513.8	11651.3	12132.3	13338.1	*13422.6*	10419.5
60°	3731.0	3708.3	4156.8	5336.5	7504.3	9701.3	11371.8	12138.8	13705.3	*13854.8*	11030.5
62.5°	2668.3	2694.3	3038.8	3828.5	5772.0	8554.0	11007.8	12229.8	14358.6	*14527.6*	11898.3
65°	1800.5	1787.5	2073.5	2606.5	4104.8	7010.3	10448.8	12421.6	15535.1	*15830.8*	12938.3
67.5°	1251.3	1261.0	1391.0	1696.5	2606.5	5382.0	9519.3	12528.8	16750.6	*16981.3*	13666.3
70°	*903.5*	*916.5*	*988.0*	*1140.8*	*1592.5*	*3649.8*	*8047.0*	*12038.1*	*17078.8*	*17280.3*	*13159.3*
72.5°	594.8	620.8	728.0	809.3	1017.3	2284.8	5928.0	10370.8	15665.1	*15814.6*	11040.3
75°	321.8	328.3	468.0	604.5	724.8	1423.5	3536.0	6994.0	11719.6	*11670.8*	7280.0
77.5°	250.3	260.0	289.3	432.3	487.5	783.3	1397.5	3159.0	5551.0	*5401.5*	2483.0
80°	152.8	159.3	201.5	256.8	341.3	455.0	409.5	858.0	1127.8	*1056.3*	364.0
82.5°	91.0	97.5	120.3	214.5	269.8	214.5	143.0	208.0	211.3	*208.0*	91.0
85°	16.3	16.3	84.5	149.5	143.0	61.8	84.5	68.3	61.8	*65.0*	19.5
87.5°	0.0	0.0	32.5	45.5	65.0	22.8	32.5	16.3	16.3	*16.3*	9.8
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°	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0
2.5°	2635.8	2525.3	2297.8	2099.5	1901.3	1755.0	1644.5	1530.8	1491.8	1443.0	1417.0
5°	2681.3	2463.5	2011.8	1651.0	1345.5	1111.5	962.0	871.0	812.5	770.3	760.5
7.5°	2749.5	2414.8	1781.0	1293.5	958.8	724.8	601.3	539.5	507.0	487.5	481.0
10°	2830.8	2372.5	1553.5	1007.5	676.0	510.3	442.0	416.0	403.0	396.5	393.3
12.5°	2944.5	2356.3	1361.8	776.8	510.3	419.3	383.5	367.3	357.5	347.8	344.5
15°	3094.0	2362.8	1186.3	601.3	422.5	373.8	344.5	328.3	315.3	305.5	305.5
17.5°	3250.0	2372.5	1014.0	487.5	383.5	341.3	308.8	286.0	276.3	266.5	263.3
20°	3396.3	2369.3	848.3	416.0	347.8	305.5	273.0	250.3	234.0	224.3	224.3
22.5°	3536.0	2349.8	692.3	373.8	318.5	269.8	234.0	211.3	198.3	188.5	188.5
25°	3685.5	2310.8	565.5	341.3	282.8	237.3	201.5	178.8	169.0	159.3	159.3
27.5°	3802.5	2245.8	461.5	312.0	250.3	204.8	172.3	152.8	143.0	136.5	136.5
30°	3929.3	2151.5	383.5	279.5	217.8	175.5	146.3	130.0	120.3	117.0	117.0
32.5°	4069.0	2047.5	328.3	247.0	185.3	149.5	123.5	113.8	104.0	100.8	100.8
35°	4231.5	1956.5	295.8	214.5	162.5	126.8	107.3	97.5	91.0	91.0	91.0
37.5°	4416.8	1862.3	266.5	188.5	139.8	107.3	91.0	87.8	84.5	81.3	81.3
40°	4618.3	1761.5	240.5	165.8	120.3	91.0	78.0	78.0	74.8	74.8	74.8
42.5°	4845.8	1673.8	217.8	146.3	104.0	78.0	68.3	68.3	65.0	65.0	65.0
45°	5092.8	1592.5	198.3	130.0	91.0	68.3	61.8	58.5	55.3	55.3	55.3
47.5°	5385.3	1547.0	182.0	113.8	78.0	58.5	52.0	48.8	45.5	42.3	42.3
50°	5759.0	1566.5	165.8	94.3	68.3	48.8	42.3	39.0	35.8	32.5	32.5
52.5°	6054.8	1556.8	143.0	81.3	55.3	39.0	32.5	29.3	26.0	22.8	22.8
55°	6269.3	1517.8	123.5	68.3	42.3	32.5	26.0	19.5	16.3	16.3	16.3
57.5°	6480.5	1478.8	104.0	55.3	32.5	22.8	16.3	13.0	13.0	13.0	13.0
60°	6808.8	1423.5	91.0	45.5	26.0	16.3	9.8	9.8	6.5	6.5	6.5
62.5°	7208.5	1355.3	74.8	39.0	19.5	13.0	6.5	6.5	0.0	0.0	0.0
65°	7647.3	1235.0	61.8	29.3	16.3	9.8	6.5	0.0	0.0	0.0	0.0
67.5°	7546.5	991.3	52.0	19.5	13.0	6.5	3.3	0.0	0.0	0.0	0.0
70°	*6675.5*	*669.5*	*42.3*	*16.3*	*9.8*	*6.5*	*3.3*	*0.0*	*0.0*	*0.0*	*0.0*
72.5°	5229.3	396.5	29.3	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0
75°	3347.5	198.3	19.5	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1121.3	97.5	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	159.3	32.5	6.5	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.8	13.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.3	0.0	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)