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: P239619

Luminaire Tested: **UTLD-AF24-70-D-U-T2U**

Issue Date: 3/3/2020

Report Generated By E9812814

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P239619
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-U0)
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	UTLD-AF24-70-D-U-T2U
Description:	TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
	(1) 70 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN UPPER HEMISPHERE NOT REPORTED.
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7371 lumens
Efficiency:	N/A
Efficacy:	99.6 lumens/watt
Luminous Opening:	Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification:	Type II - Short - Semi-Cutoff
BUG Rating:	B2 - U0 - G2

Input Watts (W):	74
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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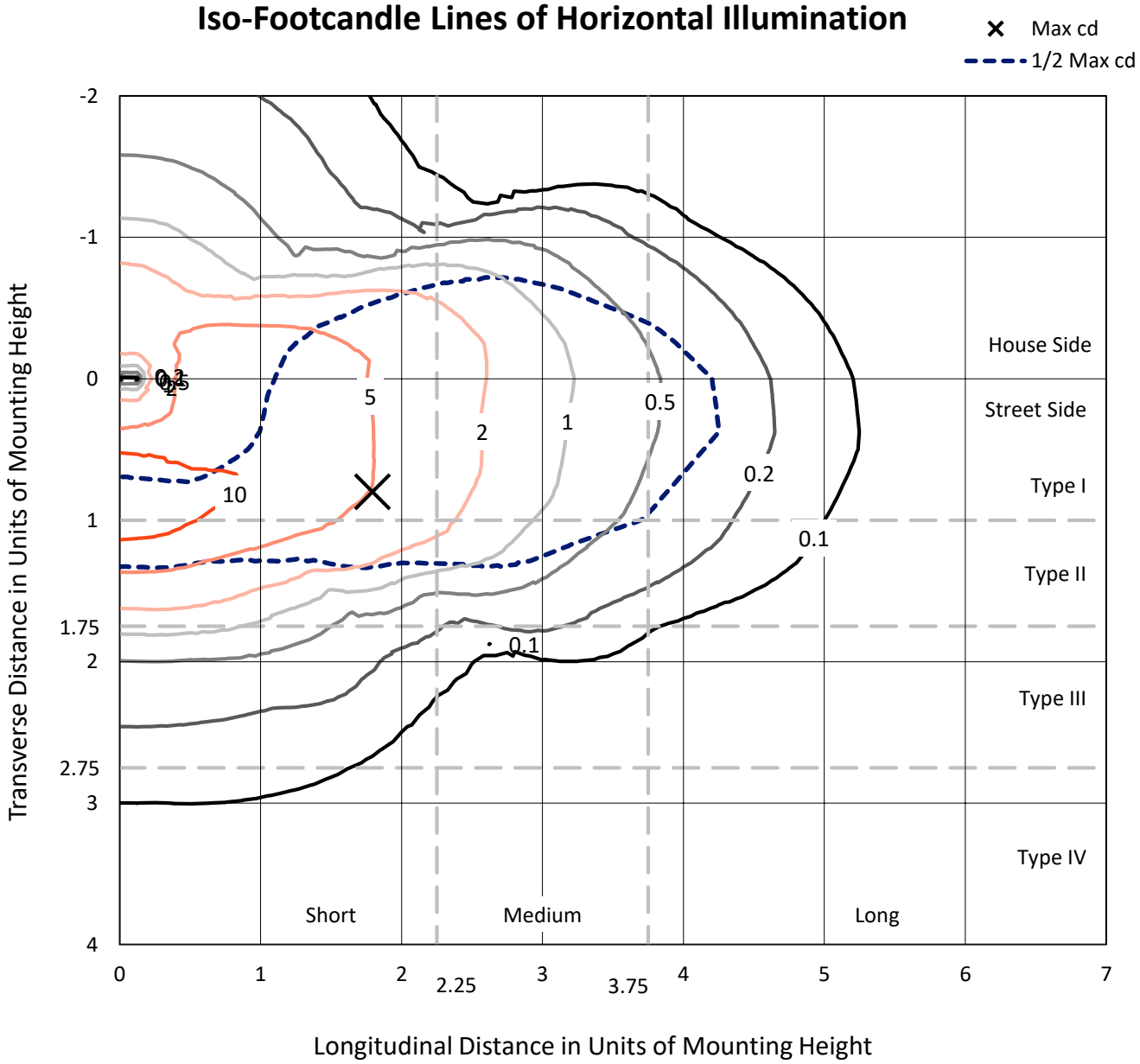
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Short - Semi-Cutoff

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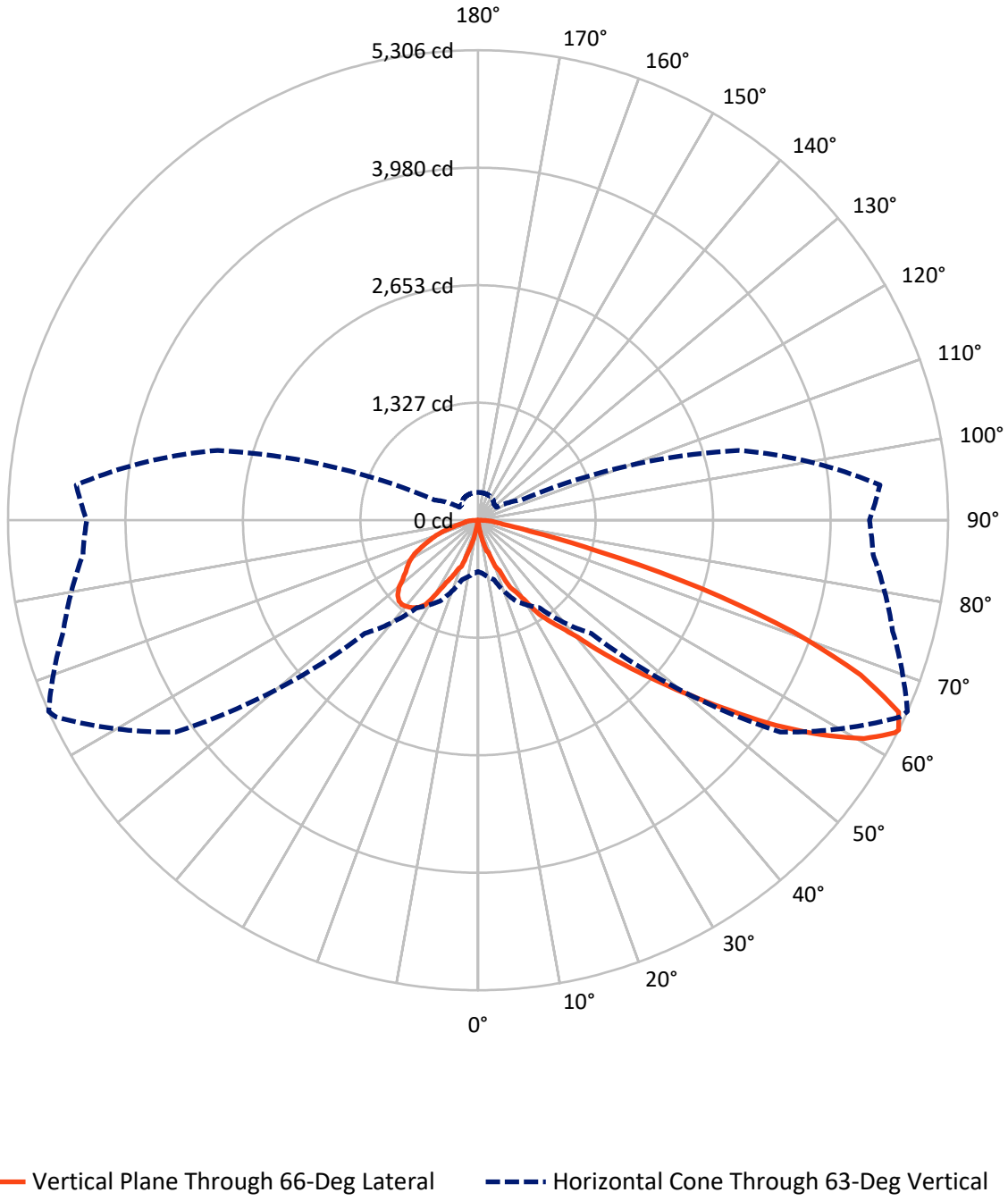
Luminous Intensity Polar Plot



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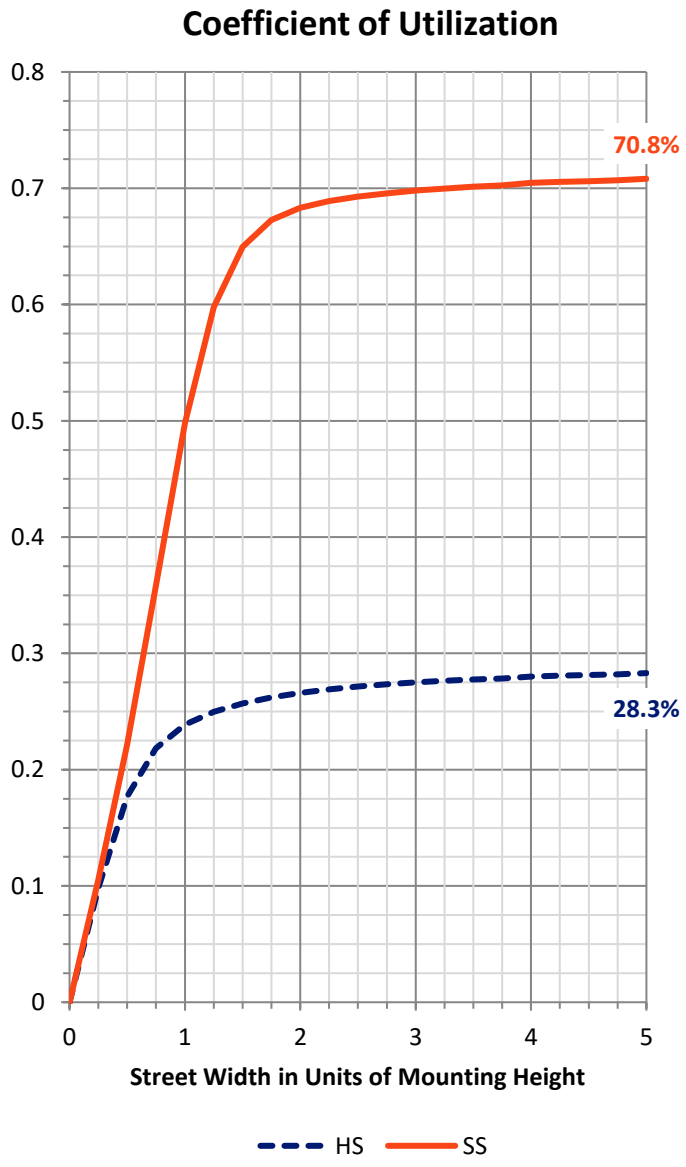
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2122.9	0.0	2122.9
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	5248.1	0.0	5248.1
	% Fixture	71.2	0.0	71.2
Total	Lumens	7371.0	0.0	7371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.1
10°-20°	97.3	1.3
20°-30°	357.8	4.9
30°-40°	814.4	11.0
40°-50°	1466.4	19.9
50°-60°	1914.5	26.0
60°-70°	1700.9	23.1
70°-80°	864.0	11.7
80°-90°	148.5	2.0
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°	7371.0	100.0
0°-180°	7371.0	100.0



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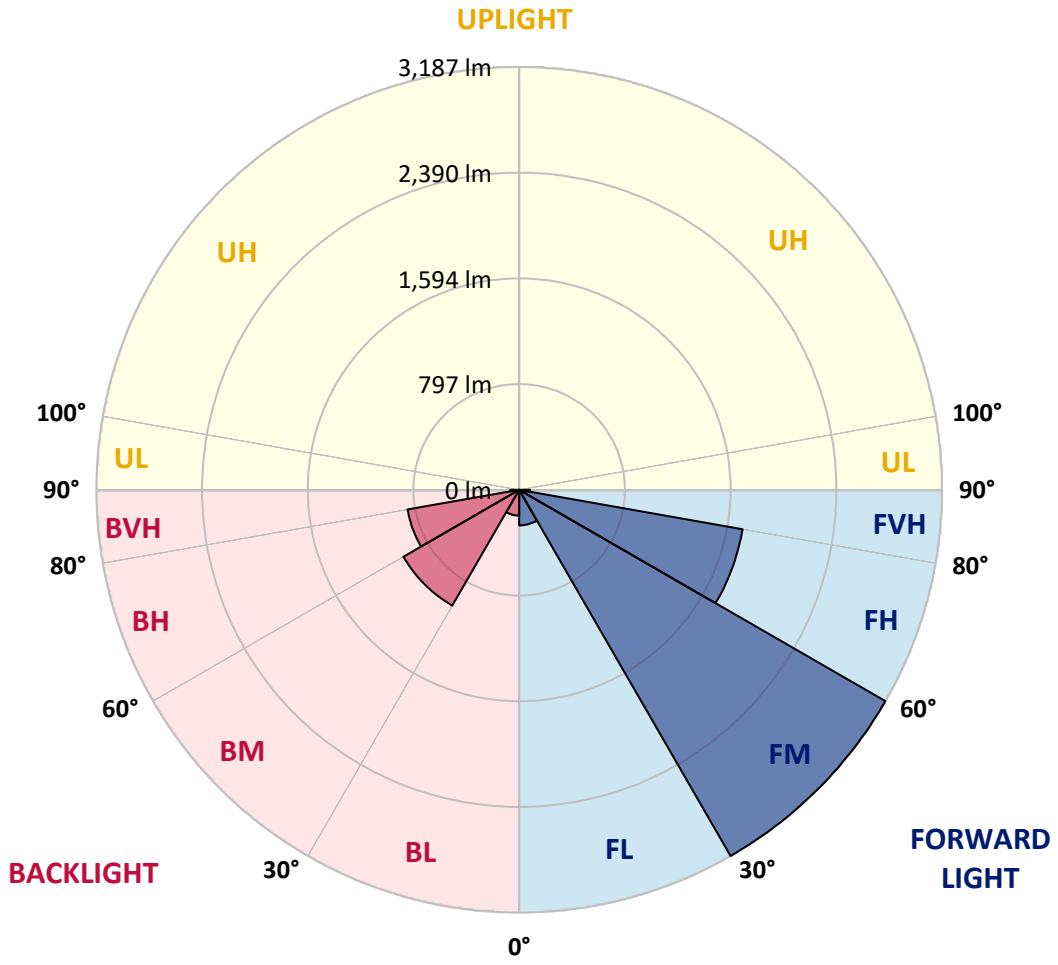
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	268.1	3.6			
FM	(30°-60°)	3187.3	43.2			
FH	(60°-80°)	1710.4	23.2			G1/1800
FVH	(80°-90°)	82.4	1.1			G1/100
BL	(0°-30°)	194.3	2.6	B1/500		
BM	(30°-60°)	1008.0	13.7	B2/2500		
BH	(60°-80°)	854.5	11.6	B2/1000		G2/1000
BVH	(80°-90°)	66.1	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	*1.7*	1.7	1.7
2.5°	18.6	18.6	16.0	12.7	10.1	8.4	5.9	4.2	*4.2*	2.5	1.7
5°	170.5	170.5	169.7	168.8	167.1	160.4	29.5	9.3	*8.4*	4.2	2.5
7.5°	173.9	173.0	173.0	171.4	170.5	167.1	164.6	64.2	*54.0*	9.3	5.1
10°	311.5	309.8	307.3	207.7	175.6	171.4	170.5	134.2	*133.4*	28.7	21.1
12.5°	325.0	325.8	323.3	320.8	314.0	196.7	188.2	243.1	*247.3*	284.5	221.2
15°	370.6	365.5	346.9	335.1	329.2	308.9	352.0	351.1	*352.8*	333.4	253.2
17.5°	525.9	524.2	520.0	487.9	362.1	464.3	444.0	378.2	*383.2*	437.2	437.2
20°	593.4	592.6	577.4	559.6	621.3	500.6	476.9	555.4	*559.6*	565.6	523.3
22.5°	891.4	890.5	854.2	656.7	698.1	628.0	631.4	633.1	*617.9*	609.4	655.0
25°	1034.0	1027.3	1007.0	947.9	828.1	836.5	690.5	830.6	*837.4*	832.3	822.2
27.5°	1458.6	1459.5	1290.6	1118.4	1016.3	941.2	949.6	921.8	*920.9*	905.7	946.2
30°	1700.0	1688.2	1629.1	1462.0	1213.0	1112.5	1066.1	1083.8	*1056.8*	1152.2	1144.6
32.5°	2269.0	2269.0	2064.7	1696.7	1462.0	1379.3	1239.1	1244.2	*1264.5*	1251.0	1270.4
35°	2669.1	2631.1	2429.3	2130.5	1657.8	1550.6	1467.1	1393.6	*1402.1*	1378.4	1397.0
37.5°	3093.7	3055.7	2832.8	2449.6	2003.9	1813.1	1658.7	1567.5	*1546.4*	1548.1	1562.4
40°	3423.7	3402.6	3265.8	2843.0	2345.8	2093.4	1883.2	1759.1	*1736.3*	1777.7	1824.1
42.5°	3654.1	3645.7	3564.7	3191.6	2749.3	2518.0	2204.0	2024.2	*2028.4*	2050.3	2096.8
45°	3746.1	3726.7	3724.2	3411.9	3113.1	2996.6	2623.5	2326.4	*2341.6*	2401.5	2410.8
47.5°	3645.7	3605.2	3678.6	3503.0	3415.3	3422.9	3102.9	2716.3	*2701.1*	2758.5	2753.5
50°	3277.7	3264.2	3405.1	3433.0	3564.7	3739.4	3628.8	3151.0	*3107.2*	3112.2	3077.6
52.5°	2707.0	2740.0	2925.7	3119.8	3494.6	3910.7	4099.0	3610.2	*3572.3*	3465.1	3398.4
55°	2176.1	2215.8	2416.7	2567.8	3139.2	3898.9	4442.5	4069.4	*4090.5*	3815.4	3691.3
57.5°	1592.8	1644.3	1911.1	2038.5	2572.0	3614.5	4617.3	4516.8	*4568.3*	4161.4	3969.8
60°	1018.0	1037.4	1306.7	1559.9	1871.4	2945.1	4600.4	4943.9	*5005.6*	4534.5	4229.0
62.5°	635.6	656.7	744.5	1098.2	1323.6	1996.3	4274.6	5227.6	*5284.1*	4802.1	4445.1
63°	*579.1*	*603.5*	*693.9*	*1003.6*	*1206.2*	*1806.4*	*4166.5*	*5256.3*	*5306.1*	*4846.9*	*4477.1*
65°	431.3	441.5	488.7	677.0	885.5	1134.5	3411.9	5155.8	*5218.3*	4884.8	4489.8
67.5°	376.5	380.7	397.6	446.5	633.1	660.1	1987.9	4619.0	*4657.8*	4741.3	4330.3
70°	344.4	346.9	377.3	380.7	496.3	468.5	729.3	3628.8	*3775.7*	4450.1	4052.6
72.5°	298.8	302.2	337.6	370.6	384.9	372.3	394.2	2450.4	*2627.7*	3801.9	3747.8
75°	249.9	253.2	284.5	328.4	335.1	295.4	323.3	1283.9	*1409.7*	2787.2	3278.5
77.5°	205.1	207.7	235.5	265.9	308.1	227.1	262.5	483.7	*599.3*	1722.0	2360.1
80°	141.0	147.7	178.1	206.0	235.5	206.0	196.7	276.9	*292.9*	835.7	1206.2
82.5°	107.2	108.9	138.4	150.3	166.3	203.4	154.5	208.5	*220.3*	389.1	391.7
85°	74.3	72.6	97.9	104.7	115.6	128.3	129.1	151.9	*157.0*	224.5	164.6
87.5°	33.8	32.1	53.2	51.5	58.2	63.3	92.0	83.6	*85.3*	141.0	88.6
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°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2.5°	1.7	1.7	1.7	2.5	2.5	2.5	1.7	0.8	0.8	0.8	0.8
5°	1.7	1.7	1.7	2.5	2.5	3.4	4.2	4.2	5.1	5.9	5.9
7.5°	4.2	3.4	3.4	3.4	5.1	7.6	20.3	87.8	153.6	162.1	164.6
10°	18.6	18.6	13.5	11.0	12.7	138.4	179.0	184.9	188.2	189.9	189.9
12.5°	230.4	257.5	240.6	129.1	139.3	172.2	191.6	195.8	200.9	243.9	252.4
15°	280.2	282.8	285.3	265.0	367.2	271.0	226.2	341.9	347.8	350.3	349.5
17.5°	425.4	433.0	400.1	356.2	390.0	403.5	329.2	360.4	366.3	371.4	371.4
20°	552.0	552.9	518.3	554.6	474.4	491.3	428.8	406.9	522.5	527.6	526.7
22.5°	680.3	690.5	571.5	591.7	623.8	520.8	541.9	482.8	508.2	508.2	507.3
25°	842.4	839.0	783.3	684.6	655.0	616.2	556.3	503.9	573.1	606.1	606.1
27.5°	998.6	950.5	816.3	787.6	751.3	646.6	549.5	578.2	562.2	566.4	565.6
30°	1179.2	1164.9	1043.3	937.8	771.5	628.0	574.8	523.3	551.2	584.1	580.7
32.5°	1270.4	1233.2	1088.1	1132.8	808.7	605.2	500.6	492.1	500.6	512.4	514.1
35°	1390.2	1329.5	1186.8	1195.3	814.6	530.9	445.7	440.6	487.0	509.0	511.5
37.5°	1544.7	1472.1	1352.3	1223.1	764.8	468.5	395.0	422.9	438.9	449.1	445.7
40°	1743.1	1657.0	1567.5	1230.7	681.2	404.3	367.2	390.0	405.2	407.7	407.7
42.5°	1986.2	1867.2	1788.7	1226.5	572.3	370.6	348.6	366.3	385.8	384.1	382.4
45°	2273.2	2129.7	1969.3	1197.8	465.9	352.0	339.3	351.1	365.5	359.6	357.1
47.5°	2583.0	2428.5	2128.8	1139.5	396.7	338.5	334.3	334.3	350.3	348.6	347.8
50°	2897.0	2738.3	2296.0	1050.1	358.7	326.7	317.4	328.4	346.9	343.6	341.9
52.5°	3207.6	3065.0	2426.0	926.0	335.1	316.5	310.6	325.0	341.9	338.5	337.6
55°	3493.8	3401.7	2565.2	827.2	310.6	298.8	310.6	322.4	336.0	332.6	332.6
57.5°	3789.2	3762.2	2739.1	748.7	290.4	285.3	307.3	318.2	329.2	327.5	327.5
60°	4085.5	4159.8	2898.7	665.2	274.3	269.3	300.5	313.2	322.4	321.6	321.6
62.5°	4371.6	4509.2	3024.4	567.2	259.1	256.6	292.1	306.4	314.0	315.7	315.7
63°	*4418.1*	*4554.0*	*3043.0*	*538.5*	*255.8*	*254.9*	*290.4*	*304.7*	*311.5*	*314.0*	*314.0*
65°	4504.2	4662.8	3072.5	443.2	241.4	245.6	281.1	298.8	303.0	308.9	307.3
67.5°	4426.5	4559.0	2984.8	341.9	223.7	232.1	266.7	286.2	290.4	298.8	294.6
70°	4252.6	4244.2	2687.6	278.6	210.2	217.8	250.7	271.8	273.5	281.9	273.5
72.5°	3925.1	3628.0	2117.9	236.3	196.7	203.4	233.8	254.1	254.9	258.3	249.9
75°	3281.0	2821.8	1272.9	204.3	179.8	184.9	215.2	232.1	234.7	229.6	225.4
77.5°	2240.3	1774.3	579.9	179.0	164.6	165.4	192.5	207.7	208.5	197.5	197.5
80°	1077.9	831.4	241.4	160.4	149.4	146.0	168.8	180.6	179.8	167.1	162.1
82.5°	341.0	303.9	179.8	140.1	133.4	125.8	146.9	151.9	152.8	153.6	123.2
85°	135.9	141.0	139.3	115.6	112.3	95.4	117.3	124.1	121.6	102.1	86.9
87.5°	70.9	86.9	85.3	77.7	80.2	60.8	81.0	77.7	79.3	53.2	41.4
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)