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: P454646

Luminaire Tested: **GLAN-SA5D-730-U-T2R-HSS**

Issue Date: 1/4/2021

Report Generated By 670248863

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P454646
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab:	INNOVATION CENTER
Issue Date:	1/4/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GLAN-SA5D-730-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28247 lumens
Efficiency:	N/A
Efficacy:	91.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	309
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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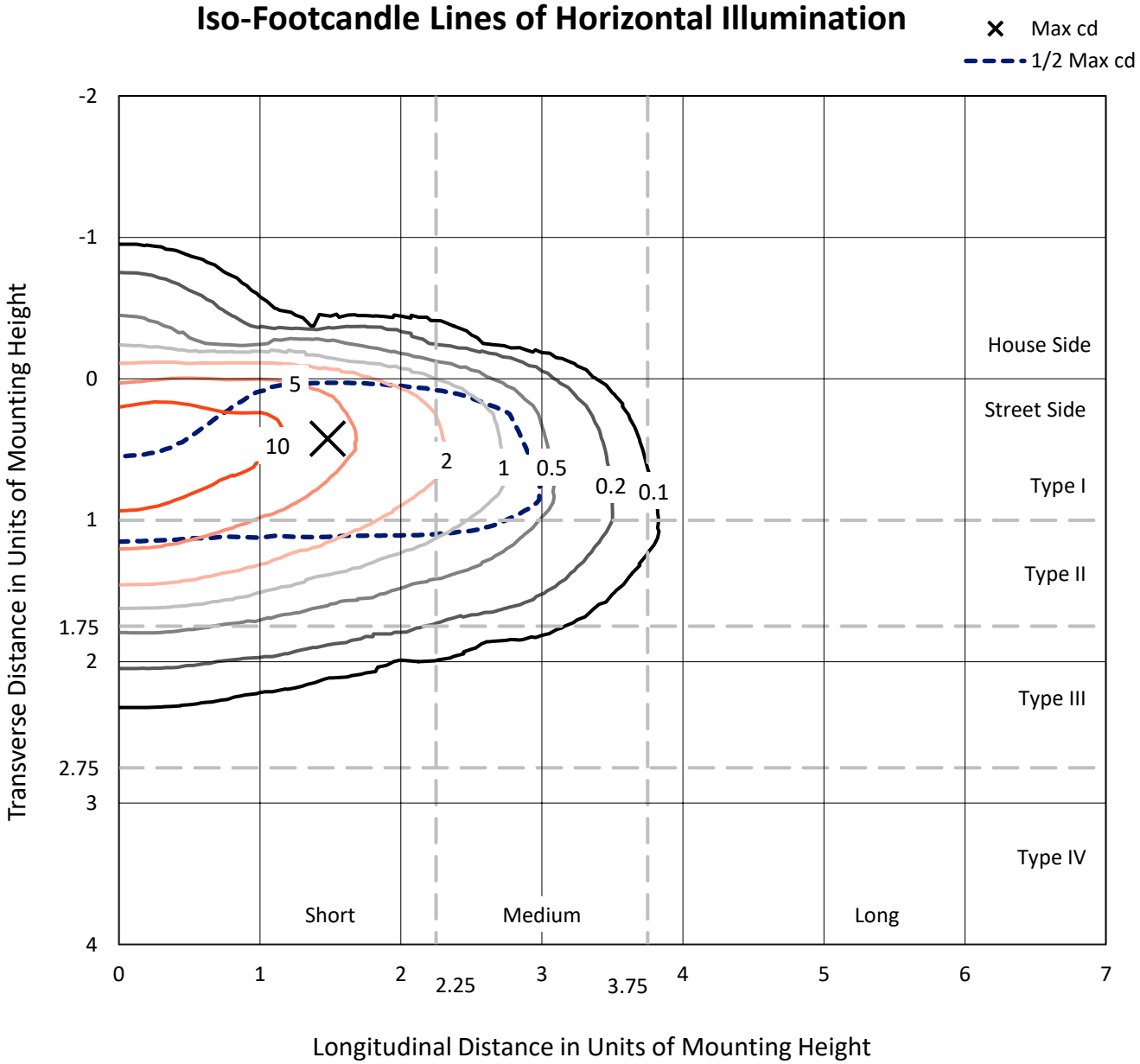
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
Type II - Short - N/A

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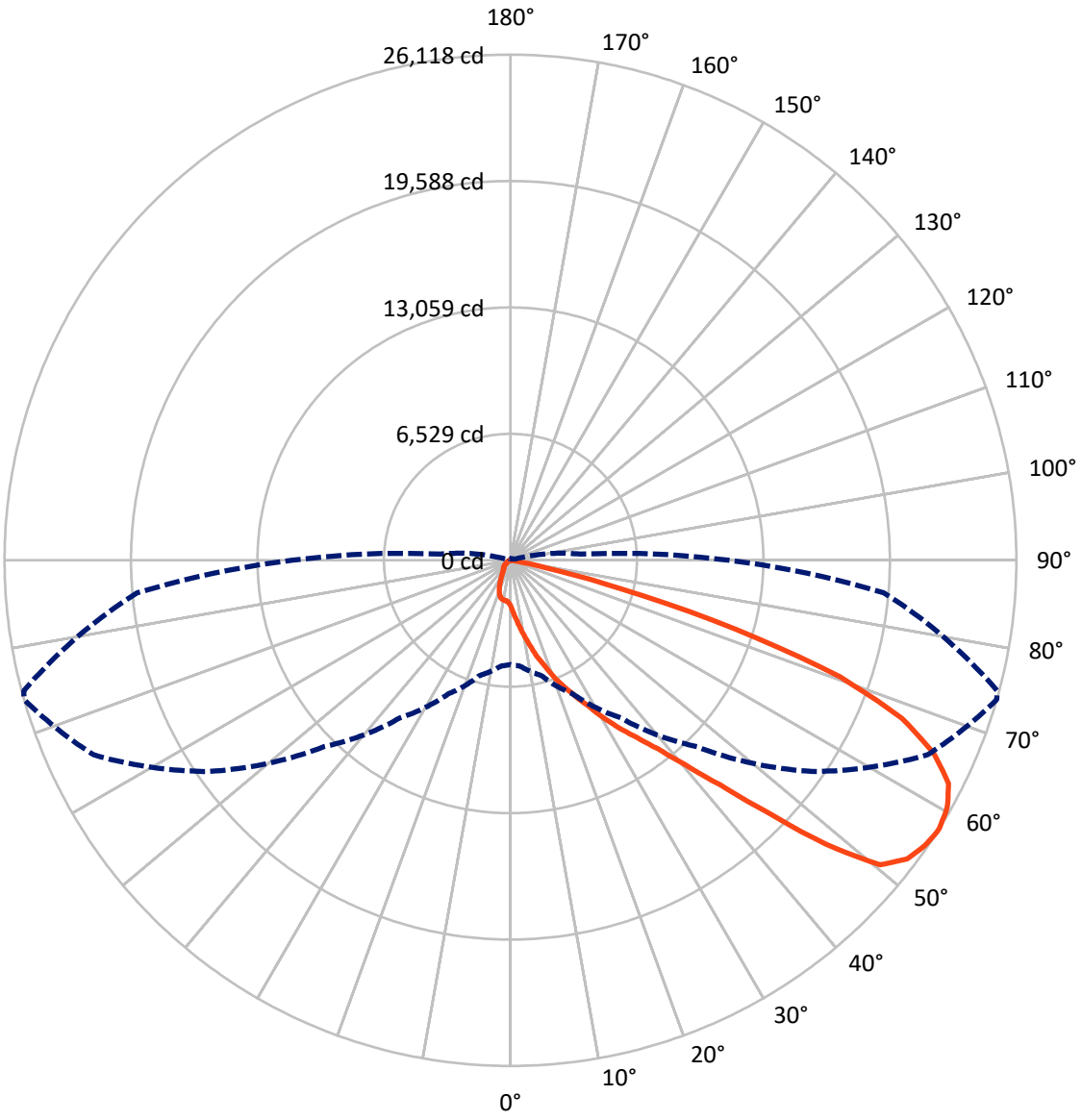
Luminous Intensity Polar Plot



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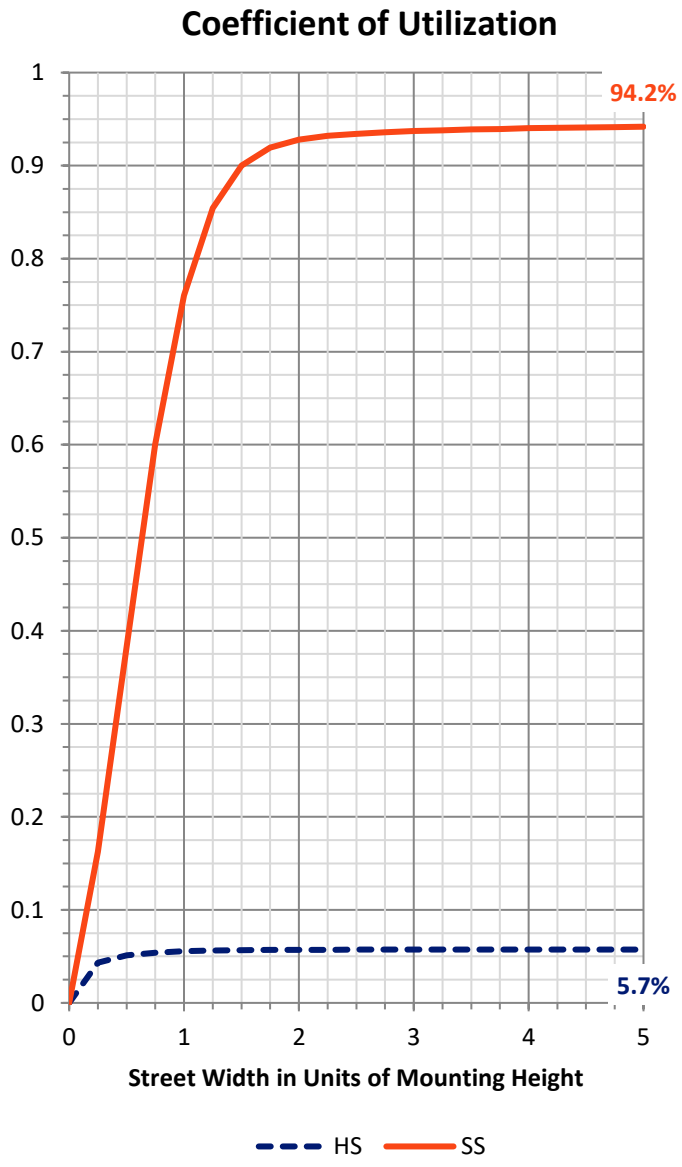
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1629.2	0.0	1629.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	26617.8	0.0	26617.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	28247.0	0.0	28247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	1.0
10°-20°	1125.5	4.0
20°-30°	2408.3	8.5
30°-40°	4426.3	15.7
40°-50°	6785.7	24.0
50°-60°	7178.3	25.4
60°-70°	4687.6	16.6
70°-80°	1280.8	4.5
80°-90°	69.0	0.2
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°	28247.0	100.0
0°-180°	28247.0	100.0



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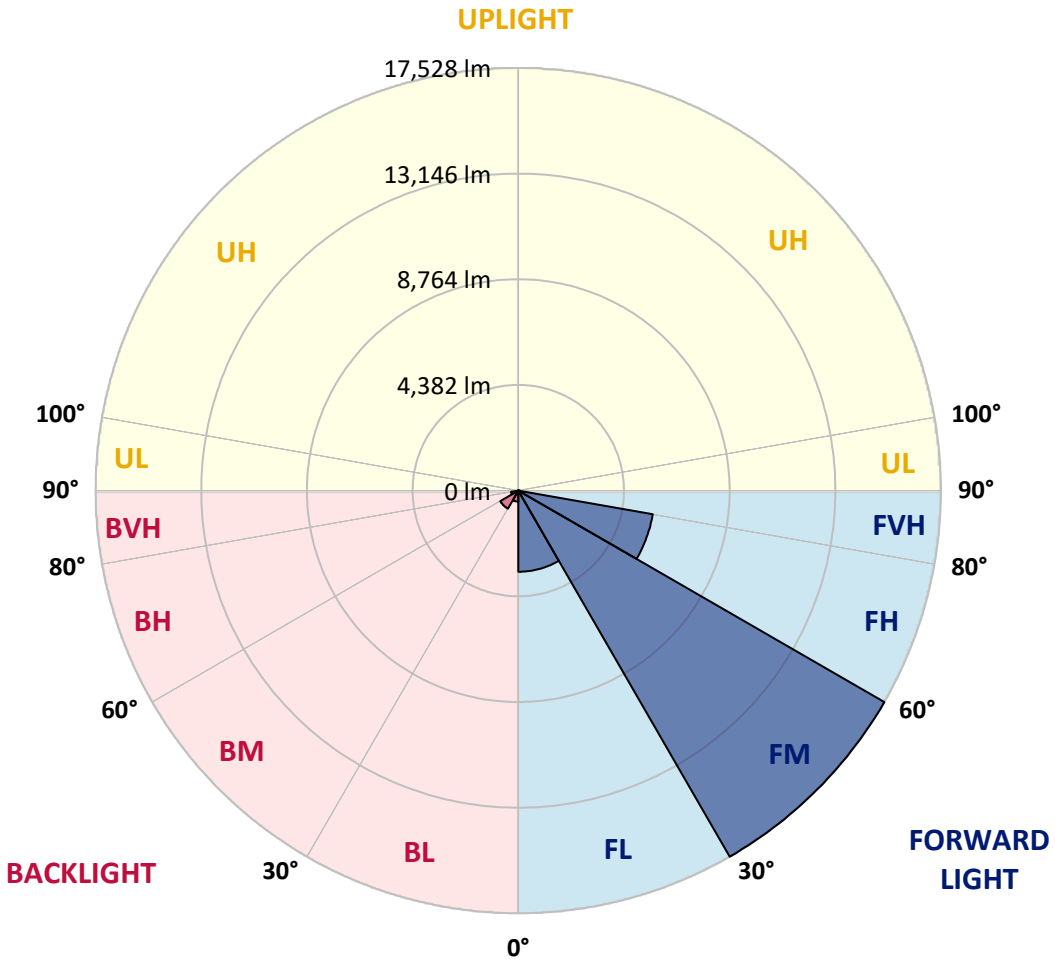
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3364.2	11.9			
FM	(30°-60°)	17527.8	62.1			
FH	(60°-80°)	5662.6	20.0			G3/7500
FVH	(80°-90°)	63.3	0.2			G1/100
BL	(0°-30°)	455.1	1.6	B1/500		
BM	(30°-60°)	862.5	3.1	B1/1000		
BH	(60°-80°)	305.9	1.1	B1/500		G1/500
BVH	(80°-90°)	5.7	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2365.6	2365.6	2365.6	2365.6	2365.6	2365.6	2365.6	2365.6	*2365.6*	2365.6	2365.6
2.5°	3461.7	3430.5	3368.1	3346.6	3255.0	3112.6	2987.8	2820.1	*2687.4*	2673.8	2513.9
5°	4635.7	4565.5	4536.3	4395.9	4175.5	3968.8	3613.8	3344.7	*3034.6*	3011.2	2689.4
7.5°	5766.9	5669.4	5640.1	5507.5	5250.1	4924.4	4464.1	3974.6	*3483.1*	3438.3	2925.4
10°	6586.0	6599.6	6547.0	6459.2	6250.5	5919.0	5351.5	4682.5	*3982.4*	3925.8	3190.6
12.5°	7173.0	7171.1	7180.8	7178.9	7067.7	6816.1	6219.3	5449.0	*4532.4*	4421.2	3494.8
15°	7555.3	7561.1	7590.4	7691.8	7703.5	7547.5	7050.1	6182.3	*5170.1*	5031.6	3824.4
17.5°	7941.4	7982.4	8029.2	8124.7	8210.5	8148.1	7797.1	6946.8	*5747.4*	5644.0	4177.4
20°	8579.1	8635.7	8608.4	8666.9	8711.8	8717.6	8446.5	7652.8	*6447.5*	6273.9	4581.1
22.5°	9599.1	9597.2	9527.0	9421.6	9333.9	9330.0	9084.2	8378.3	*7083.3*	6915.6	4986.8
25°	10888.2	10894.1	10757.6	10457.2	10238.8	9971.6	9688.8	9014.0	*7763.9*	7557.2	5413.9
27.5°	12366.5	12329.5	12122.7	11709.3	11276.3	10820.0	10412.4	9753.2	*8485.5*	8313.9	5903.4
30°	13694.6	13681.0	13439.2	12934.0	12364.6	11906.3	11315.3	10679.6	*9419.7*	9209.1	6451.4
32.5°	14931.1	14950.6	14615.2	14092.5	13542.5	13014.0	12389.9	11565.0	*10336.3*	10037.9	7048.2
35°	15896.5	15916.0	15568.8	15133.9	14568.3	14129.5	13534.7	12508.9	*11241.2*	10989.6	7734.7
37.5°	16411.3	16436.7	16235.8	15908.2	15555.2	15334.8	14780.9	13723.9	*12341.2*	12189.0	8546.0
40°	16508.8	16538.1	16450.3	16362.6	16343.1	16501.0	16339.2	15155.4	*13866.3*	13628.3	9755.1
42.5°	16216.3	16255.3	16294.3	16489.3	16887.2	17466.4	18030.0	17097.8	*15830.2*	15510.3	11233.4
45°	15447.9	15444.0	15598.1	16103.2	16994.5	18230.9	19797.0	19529.8	*18505.9*	18125.6	13322.1
47.5°	14133.4	14113.9	14447.4	15167.1	16555.6	18371.3	21238.2	22482.4	*21920.8*	21569.7	15566.9
50°	12130.5	12226.1	12750.7	13755.1	15465.5	17946.2	21682.8	24419.0	*24723.3*	24350.8	17380.6
52.5°	9784.4	9780.5	10603.5	11966.7	13850.7	17010.1	21372.8	24770.1	*25634.0*	25349.3	18273.8
55°	7241.3	7292.0	8148.1	9523.1	11754.1	15301.6	20360.6	24409.3	*25981.2*	25780.3	18862.8
57°	*5386.6*	*5476.3*	*6162.8*	*7617.7*	*9928.7*	*13610.8*	*19013.0*	*23763.8*	*26117.7*	*26008.5*	*19352.3*
57.5°	5027.7	5031.6	5700.6	7022.8	9394.3	12961.3	18626.8	23494.6	*26113.8*	26053.3	19432.3
60°	3095.0	3192.6	3654.8	4746.9	6876.6	10115.9	16038.8	21948.1	*25911.0*	25998.7	19773.6
62.5°	1852.7	1893.7	2194.0	2861.0	4432.9	7383.6	13125.2	19968.6	*25382.5*	25649.6	19750.2
65°	1191.6	1201.4	1337.9	1731.8	2771.3	4990.7	10114.0	17353.3	*24015.3*	24506.8	18977.9
67.5°	920.5	936.1	990.7	1137.0	1607.0	3108.7	7153.5	14562.5	*21803.8*	22437.6	17105.6
70°	817.2	825.0	844.5	891.3	1062.9	1755.2	4450.5	11375.8	*18080.7*	18260.2	13386.5
72.5°	667.0	688.4	748.9	764.5	842.5	1096.0	2476.8	7635.2	*12148.1*	12192.9	7488.9
75°	516.8	520.7	610.4	655.3	709.9	754.7	1105.8	3849.8	*5835.1*	5523.1	2886.4
77.5°	386.1	403.7	444.7	501.2	579.2	540.2	495.4	1451.0	*1811.8*	1778.6	838.6
80°	247.7	257.4	310.1	376.4	450.5	353.0	278.9	425.2	*397.9*	409.6	200.9
82.5°	124.8	126.8	198.9	306.2	286.7	177.5	175.5	173.6	*148.2*	146.3	93.6
85°	13.7	29.3	128.7	175.5	128.7	58.5	81.9	80.0	*78.0*	80.0	54.6
87.5°	2.0	2.0	21.5	25.4	17.6	19.5	23.4	25.4	*31.2*	29.3	23.4
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°	2365.6	2365.6	2365.6	2365.6	2365.6	2365.6	2365.6	2365.6	2365.6	2365.6	2365.6
2.5°	2435.9	2357.8	2213.5	2075.1	1971.7	1905.4	1819.6	1788.4	1743.5	1737.7	1716.2
5°	2541.2	2393.0	2141.4	1942.4	1782.5	1661.6	1556.3	1468.5	1398.3	1382.7	1390.5
7.5°	2691.3	2471.0	2119.9	1848.8	1626.5	1419.8	1252.1	1148.7	1074.6	1047.3	1051.2
10°	2861.0	2574.3	2116.0	1749.4	1410.0	1156.5	973.2	881.5	838.6	823.0	805.5
12.5°	3061.9	2693.3	2106.3	1595.3	1172.1	922.5	791.8	737.2	696.2	684.5	684.5
15°	3288.1	2820.1	2059.5	1404.2	951.7	762.5	674.8	631.9	618.2	606.5	606.5
17.5°	3524.1	2944.9	1961.9	1168.2	789.8	653.3	598.7	573.4	553.9	540.2	540.2
20°	3793.2	3067.7	1805.9	959.5	667.0	583.1	540.2	511.0	495.4	483.7	479.8
22.5°	4048.7	3167.2	1607.0	787.9	581.2	524.6	485.6	454.4	438.8	433.0	433.0
25°	4313.9	3227.7	1367.1	651.4	530.5	475.9	433.0	407.6	393.9	390.0	388.1
27.5°	4571.4	3262.8	1156.5	569.5	483.7	431.0	390.0	370.5	356.9	353.0	354.9
30°	4883.4	3268.6	951.7	511.0	442.7	388.1	351.0	333.5	325.7	321.8	319.8
32.5°	5199.4	3260.8	799.6	475.9	403.7	351.0	319.8	306.2	300.3	294.5	294.5
35°	5554.3	3219.9	680.6	440.8	366.6	319.8	292.5	280.8	273.0	267.2	265.2
37.5°	5995.1	3198.4	612.4	401.8	333.5	290.6	265.2	253.5	247.7	239.9	237.9
40°	6689.3	3294.0	590.9	366.6	300.3	263.3	239.9	226.2	218.4	210.6	208.7
42.5°	7555.3	3461.7	555.8	331.5	271.1	237.9	214.5	198.9	185.3	175.5	171.6
45°	8676.6	3682.1	501.2	294.5	245.7	210.6	189.2	169.7	152.1	144.3	142.4
47.5°	9852.6	3894.6	452.5	265.2	218.4	187.2	163.8	142.4	126.8	120.9	119.0
50°	10574.2	3937.5	421.3	232.1	191.1	161.9	138.5	119.0	109.2	103.4	103.4
52.5°	10903.8	3869.3	378.3	202.8	165.8	142.4	119.0	103.4	97.5	93.6	91.7
55°	11134.0	3764.0	321.8	175.5	142.4	120.9	105.3	93.6	85.8	81.9	80.0
57°	*11268.5*	*3621.6*	*278.9*	*154.1*	*122.9*	*105.3*	*93.6*	*83.9*	*76.1*	*68.3*	*68.3*
57.5°	11274.4	3567.0	267.2	152.1	117.0	101.4	91.7	81.9	72.2	64.4	62.4
60°	11100.8	3192.6	214.5	128.7	93.6	85.8	76.1	64.4	50.7	42.9	41.0
62.5°	10543.0	2716.7	177.5	109.2	76.1	66.3	54.6	48.8	35.1	25.4	25.4
65°	9698.6	2203.8	152.1	87.8	62.4	48.8	37.1	35.1	21.5	11.7	9.8
67.5°	8477.7	1716.2	128.7	72.2	52.7	35.1	25.4	23.4	11.7	3.9	0.0
70°	6459.2	1170.1	107.3	58.5	39.0	25.4	17.6	13.7	7.8	2.0	0.0
72.5°	3723.0	643.6	89.7	44.9	29.3	19.5	13.7	7.8	7.8	0.0	0.0
75°	1330.1	276.9	68.3	33.2	23.4	15.6	9.8	3.9	5.9	2.0	0.0
77.5°	423.2	148.2	44.9	25.4	19.5	11.7	7.8	3.9	3.9	2.0	0.0
80°	124.8	78.0	27.3	21.5	13.7	9.8	5.9	2.0	3.9	2.0	0.0
82.5°	68.3	39.0	21.5	15.6	13.7	7.8	5.9	2.0	2.0	2.0	0.0
85°	35.1	23.4	17.6	15.6	13.7	7.8	5.9	2.0	0.0	2.0	2.0
87.5°	19.5	17.6	17.6	15.6	13.7	9.8	5.9	2.0	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)