Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P798836

Luminaire Tested: **ARCH1-40-722-U-T2U-HSS**

Issue Date: 4/4/2024

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P798836
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab:	INNOVATION CENTER
Issue Date:	4/4/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	ARCH1-40-722-U-T2U-HSS
Description:	ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
	(1) 70 CRI, 2200K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3287 lumens
Efficiency:	N/A
Efficacy:	76.4 lumens/watt
Luminous Opening:	Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	43
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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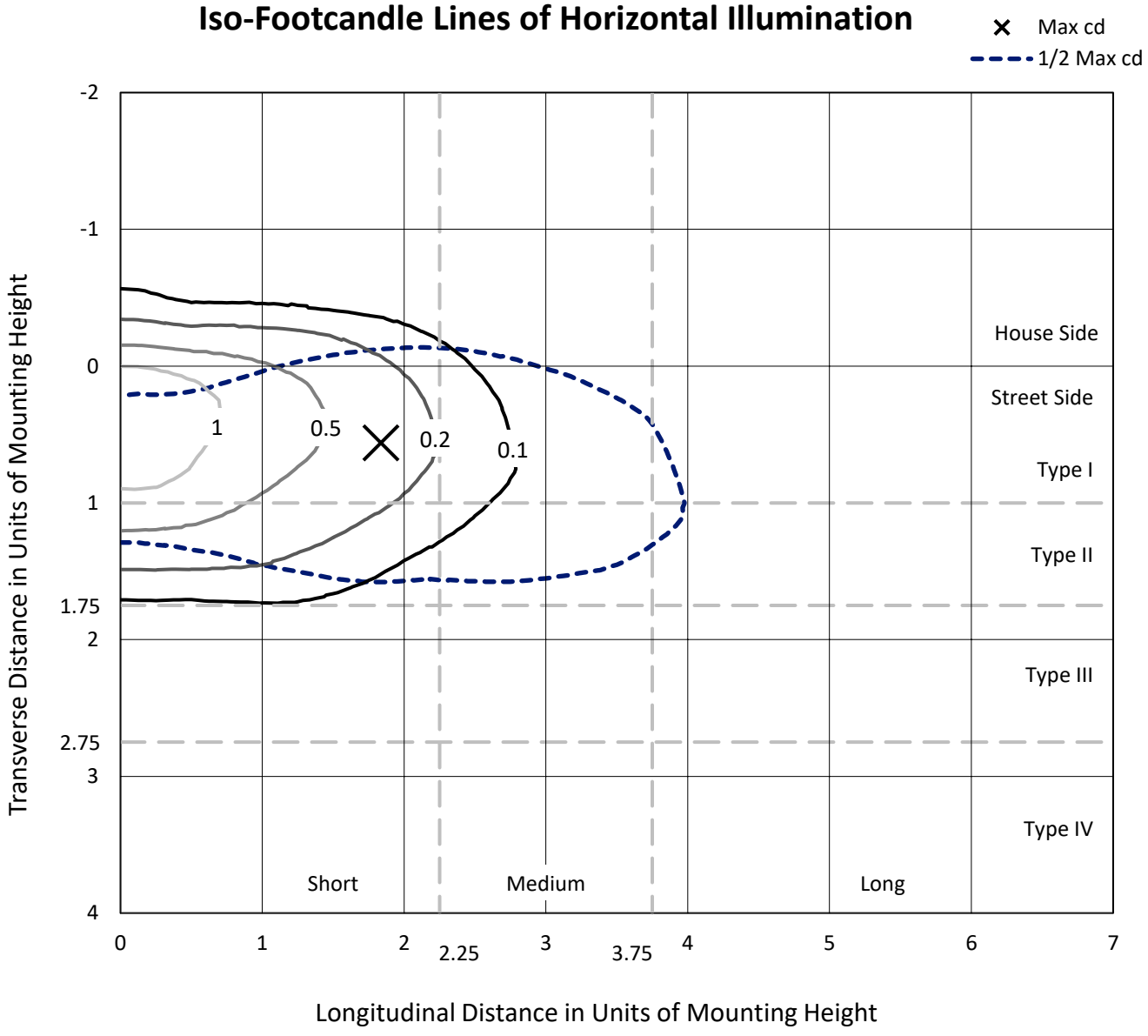
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type II - Short - N/A

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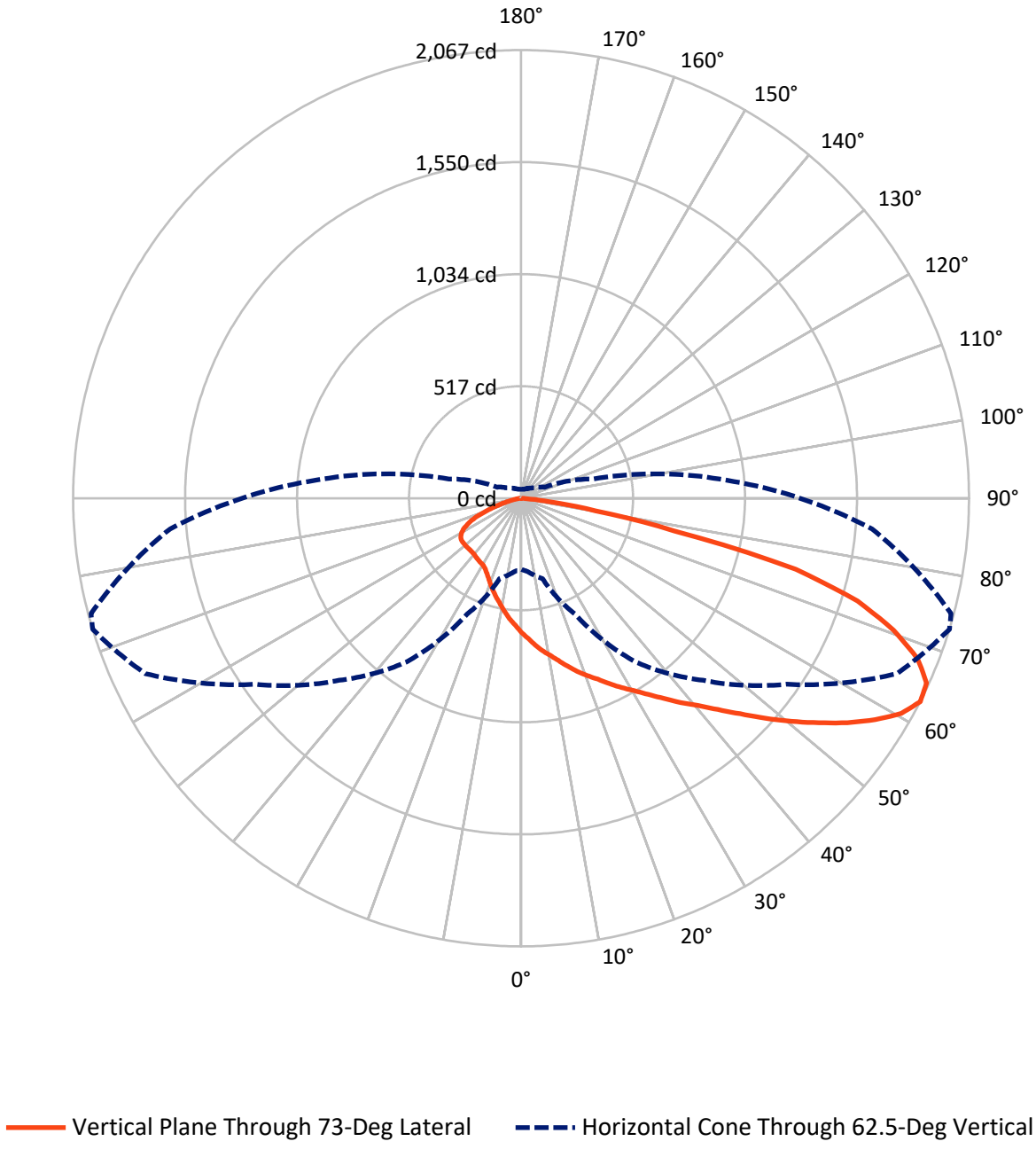
Luminous Intensity Polar Plot



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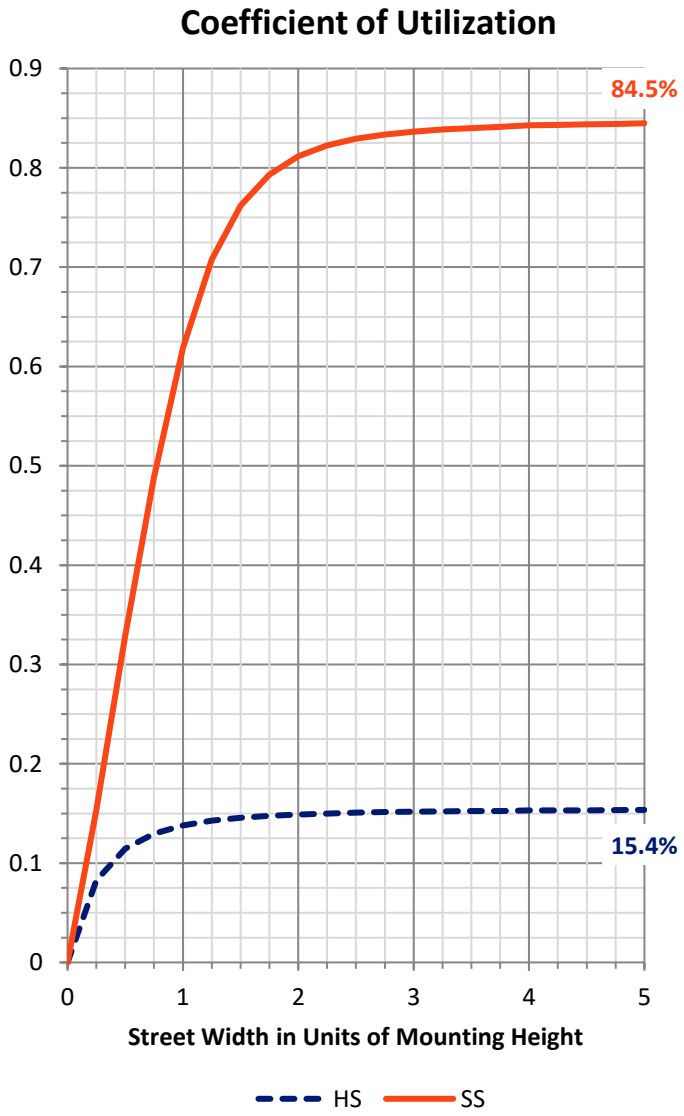
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	509.5	0.0	509.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2777.5	0.0	2777.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	3287.0	0.0	3287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	1.8
10°-20°	181.4	5.5
20°-30°	302.0	9.2
30°-40°	455.7	13.9
40°-50°	636.9	19.4
50°-60°	703.5	21.4
60°-70°	612.9	18.6
70°-80°	309.6	9.4
80°-90°	24.8	0.8
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°	3287.0	100.0
0°-180°	3287.0	100.0



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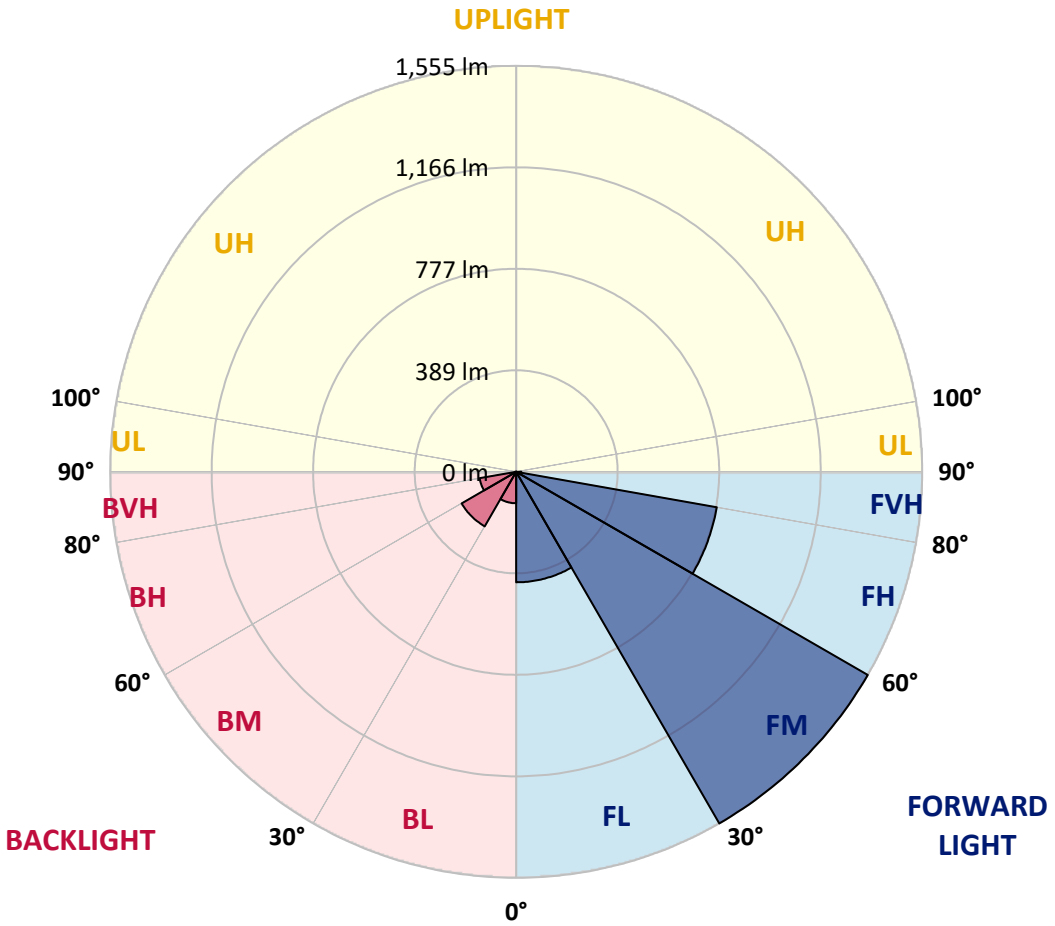
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	423.1	12.9			
FM	(30°-60°)	1554.9	47.3			
FH	(60°-80°)	780.2	23.7			G1/1800
FVH	(80°-90°)	19.2	0.6			G1/100
BL	(0°-30°)	120.4	3.7	B1/500		
BM	(30°-60°)	241.3	7.3	B1/1000		
BH	(60°-80°)	142.2	4.3	B1/500		G1/500
BVH	(80°-90°)	5.6	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	*622.4*	622.4	622.4
2.5°	708.3	716.2	711.9	714.8	700.5	691.2	680.4	659.6	*648.2*	646.8	633.1
5°	812.2	820.8	813.6	811.5	786.4	764.9	740.6	704.1	*679.7*	675.4	645.3
7.5°	916.1	923.9	915.3	908.9	875.2	837.3	801.5	747.7	*709.8*	702.6	655.3
10°	989.1	996.3	989.8	983.4	948.3	909.6	858.8	788.6	*737.0*	725.5	661.8
12.5°	1044.3	1048.6	1045.7	1040.0	1007.0	965.5	916.8	834.4	*767.8*	753.5	671.8
15°	1089.4	1096.5	1093.0	1088.7	1057.1	1015.6	969.1	882.4	*803.6*	785.7	686.9
17.5°	1119.5	1124.5	1125.2	1125.2	1097.3	1056.4	1011.3	926.1	*839.4*	816.5	701.2
20°	1133.1	1138.8	1142.4	1148.1	1125.2	1090.1	1044.3	963.3	*873.1*	847.3	714.8
22.5°	1139.5	1144.5	1153.8	1166.7	1148.1	1118.7	1076.5	997.7	*906.7*	879.5	730.6
25°	1144.5	1151.0	1164.6	1188.9	1176.0	1151.0	1114.4	1037.1	*946.9*	918.9	753.5
27.5°	1158.1	1166.0	1178.9	1208.3	1192.5	1180.3	1154.6	1079.4	*989.1*	960.5	781.4
30°	1205.4	1211.9	1211.1	1229.8	1210.4	1206.8	1188.9	1120.2	*1029.9*	1001.3	814.3
32.5°	1291.4	1297.8	1282.0	1274.9	1232.6	1233.3	1226.2	1163.9	*1078.6*	1049.3	852.3
35°	1383.7	1390.9	1370.1	1358.0	1287.1	1266.3	1269.9	1218.3	*1133.1*	1103.7	899.6
37.5°	1466.1	1474.7	1456.8	1438.9	1367.3	1319.3	1318.6	1279.2	*1195.4*	1165.3	951.9
40°	1511.2	1521.3	1532.0	1522.0	1446.8	1393.8	1370.9	1341.5	*1257.0*	1226.2	1008.4
42.5°	1532.7	1560.7	1580.0	1573.5	1512.0	1458.2	1431.0	1406.7	*1332.2*	1302.1	1075.8
45°	1472.6	1473.3	1514.1	1549.2	1537.7	1501.9	1496.9	1479.7	*1418.1*	1389.5	1151.7
47.5°	1397.4	1391.6	1420.3	1482.6	1514.8	1524.1	1553.5	1560.7	*1516.3*	1487.6	1229.0
50°	1216.9	1220.4	1313.6	1403.1	1466.1	1526.3	1593.6	1643.7	*1617.2*	1590.0	1310.7
52.5°	989.8	998.4	1105.1	1302.1	1401.7	1504.8	1617.2	1726.8	*1720.4*	1694.6	1392.3
55°	793.6	807.2	920.4	1133.8	1319.3	1456.8	1627.3	1802.7	*1827.1*	1803.5	1472.6
57.5°	606.6	621.0	716.2	935.4	1214.0	1378.7	1620.1	1869.3	*1926.6*	1911.6	1546.3
60°	457.0	471.3	532.2	758.5	1082.2	1291.4	1584.3	1913.0	*2016.2*	2000.4	1600.0
62.5°	*327.3*	*338.8*	*383.9*	*590.2*	*921.8*	*1187.5*	*1496.2*	*1913.8*	*2067.0*	*2054.1*	*1625.8*
65°	235.6	235.6	272.2	421.1	771.4	1062.9	1363.0	1825.7	*2056.3*	2052.7	1607.9
67.5°	169.7	171.2	200.5	294.4	615.2	911.8	1190.4	1668.8	*1973.2*	1991.1	1543.5
70°	120.3	123.9	137.5	205.6	464.8	719.8	1005.6	1463.2	*1823.5*	1855.0	1418.8
72.5°	93.1	95.3	104.6	143.2	339.5	535.0	801.5	1234.1	*1623.7*	1659.5	1249.1
75°	71.6	73.8	80.9	105.3	243.5	375.3	569.4	957.6	*1309.3*	1373.0	1003.4
77.5°	52.3	55.1	60.2	76.6	141.8	238.5	345.2	538.6	*722.7*	752.8	525.7
80°	24.4	27.9	35.1	49.4	76.6	112.4	122.5	207.7	*347.4*	363.1	285.1
82.5°	13.6	17.2	20.1	30.1	38.7	40.1	41.5	52.3	*131.1*	144.7	119.6
85°	6.4	8.6	9.3	12.9	12.9	11.5	13.6	10.0	*21.5*	25.8	25.1
87.5°	0.0	0.7	1.4	3.6	2.9	2.1	2.1	2.1	*2.1*	2.9	2.1
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°	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4
2.5°	626.7	617.4	595.9	577.3	565.1	554.4	540.0	533.6	522.1	524.3	517.8
5°	630.3	613.1	575.1	540.0	514.3	491.3	466.3	451.9	436.2	434.7	429.7
7.5°	632.4	605.9	551.5	502.1	462.7	427.6	393.9	375.3	356.0	351.7	347.4
10°	630.3	595.2	527.1	462.7	410.4	366.7	328.7	305.1	285.1	280.0	275.7
12.5°	632.4	589.5	504.2	426.2	363.8	314.4	271.4	247.1	228.5	223.5	220.6
15°	637.4	585.9	484.9	393.2	322.3	267.2	224.9	204.1	189.1	184.1	182.6
17.5°	641.7	582.3	464.1	361.0	280.8	225.6	189.1	171.9	159.0	154.0	152.6
20°	647.5	577.3	443.3	330.2	244.2	192.7	160.4	145.4	135.4	131.8	131.1
22.5°	652.5	573.7	424.0	299.4	210.6	166.2	138.9	126.8	119.6	116.0	116.0
25°	665.4	575.1	407.5	270.7	185.5	145.4	122.5	113.2	107.4	105.3	105.3
27.5°	680.4	580.9	394.6	246.4	164.0	129.6	111.0	103.1	100.3	97.4	98.1
30°	701.9	592.3	386.0	226.3	148.3	117.5	101.7	96.0	93.1	92.4	92.4
32.5°	729.1	610.9	385.3	213.4	136.8	108.2	95.3	90.2	88.8	88.1	88.1
35°	761.3	627.4	381.0	207.7	129.6	101.7	90.2	86.7	85.9	85.9	85.9
37.5°	800.0	654.6	378.2	199.8	126.1	98.1	86.7	83.8	83.8	83.8	83.8
40°	840.1	676.8	373.9	192.7	124.6	96.0	84.5	80.9	80.9	80.9	80.9
42.5°	888.1	709.1	372.4	189.1	122.5	94.5	81.6	77.4	78.1	78.1	78.8
45°	946.1	745.6	371.7	185.5	121.8	93.1	78.8	73.8	74.5	73.8	73.8
47.5°	1004.9	787.8	373.9	183.4	121.0	91.7	76.6	70.2	70.2	69.5	69.5
50°	1066.5	826.5	375.3	181.2	119.6	88.8	73.1	67.3	65.9	64.5	65.2
52.5°	1124.5	862.3	376.0	177.6	115.3	84.5	70.2	63.7	61.6	59.4	60.2
55°	1182.5	896.7	377.5	173.3	109.6	80.2	66.6	60.2	57.3	54.4	54.4
57.5°	1234.8	926.8	373.9	162.6	103.1	75.9	63.0	55.9	51.6	48.7	48.7
60°	1270.6	948.3	363.1	146.8	94.5	70.9	59.4	51.6	46.6	44.4	44.4
62.5°	*1287.8*	*951.9*	*343.8*	*121.0*	*83.8*	*65.9*	*55.1*	*47.3*	*43.0*	*41.5*	*41.5*
65°	1271.3	936.1	313.7	91.0	72.3	60.2	50.9	43.7	39.4	35.8	35.8
67.5°	1214.0	891.7	272.2	68.8	61.6	54.4	46.6	40.1	35.1	32.2	32.2
70°	1098.7	799.3	210.6	55.1	52.3	47.3	42.3	35.8	31.5	27.9	27.9
72.5°	947.6	677.5	148.3	44.4	44.4	40.1	35.8	31.5	27.2	24.4	24.4
75°	727.0	501.4	99.6	35.8	36.5	33.7	29.4	25.8	22.9	20.8	20.8
77.5°	396.8	247.8	60.9	26.5	27.2	25.8	22.9	20.8	19.3	17.2	17.2
80°	192.7	108.9	35.1	18.6	19.3	18.6	17.2	15.0	15.0	13.6	13.6
82.5°	80.9	40.8	18.6	12.9	12.9	11.5	10.7	10.7	10.7	10.0	10.0
85°	20.1	7.9	7.9	7.2	7.2	7.2	6.4	6.4	6.4	5.0	5.7
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.1	0.7	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)