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: P799478

Luminaire Tested: **ARCH2-30-722-U-T3-HSS**

Issue Date: 4/4/2024

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P799478
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab:	INNOVATION CENTER
Issue Date:	4/4/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	ARCH2-30-722-U-T3-HSS
Description:	ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
	(2) 70 CRI, 2200K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3109 lumens
Efficiency:	N/A
Efficacy:	90.4 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	34.4
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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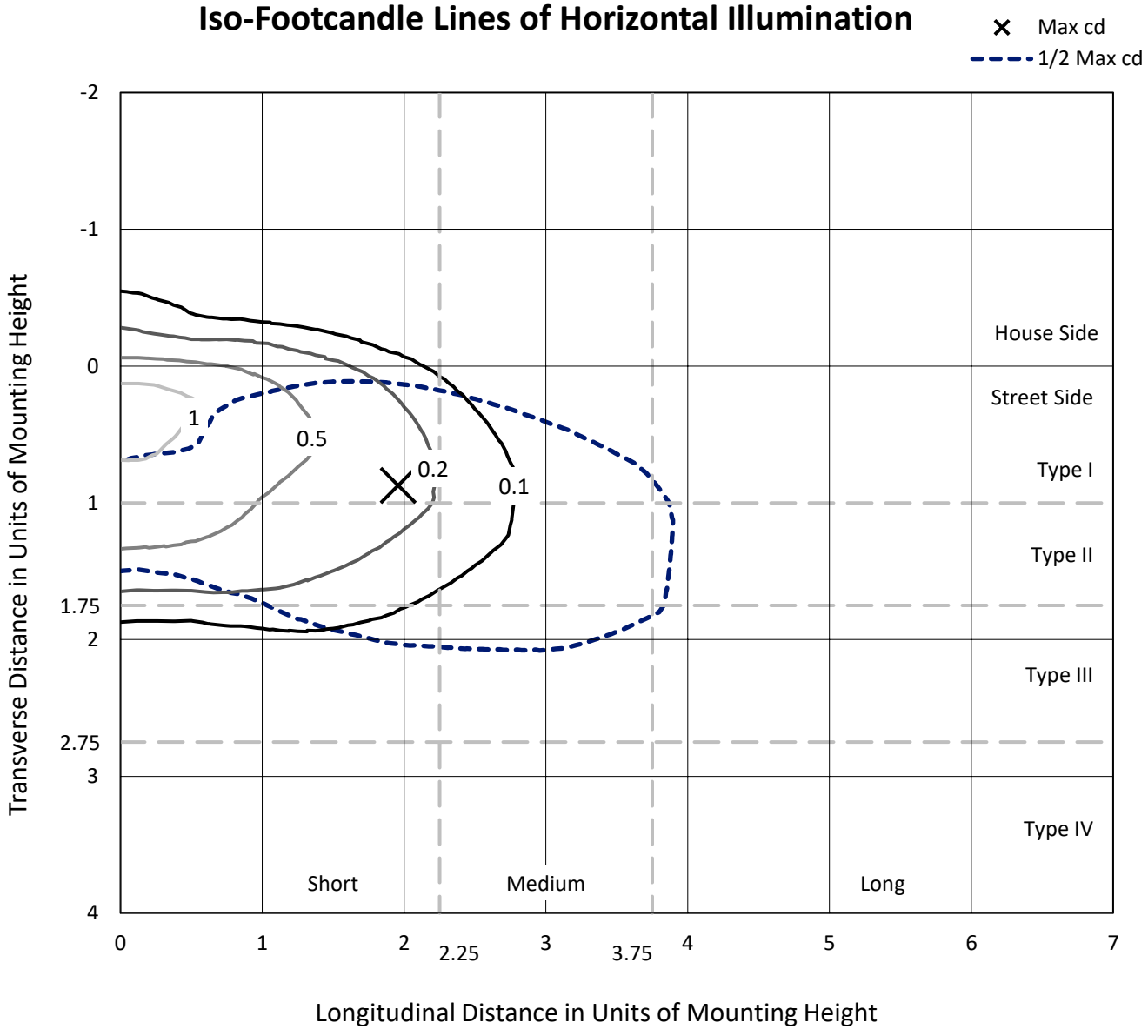
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

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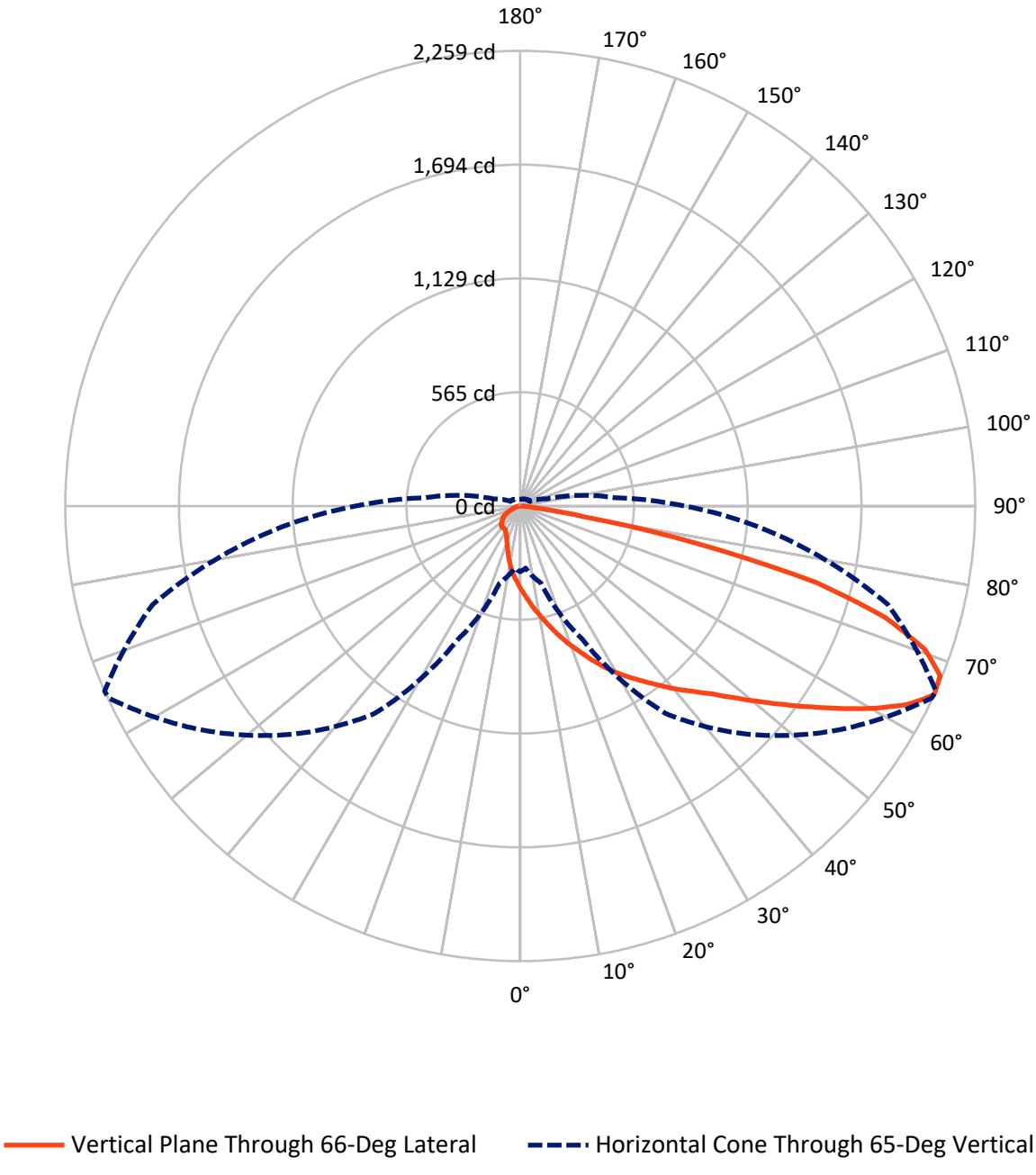
Luminous Intensity Polar Plot



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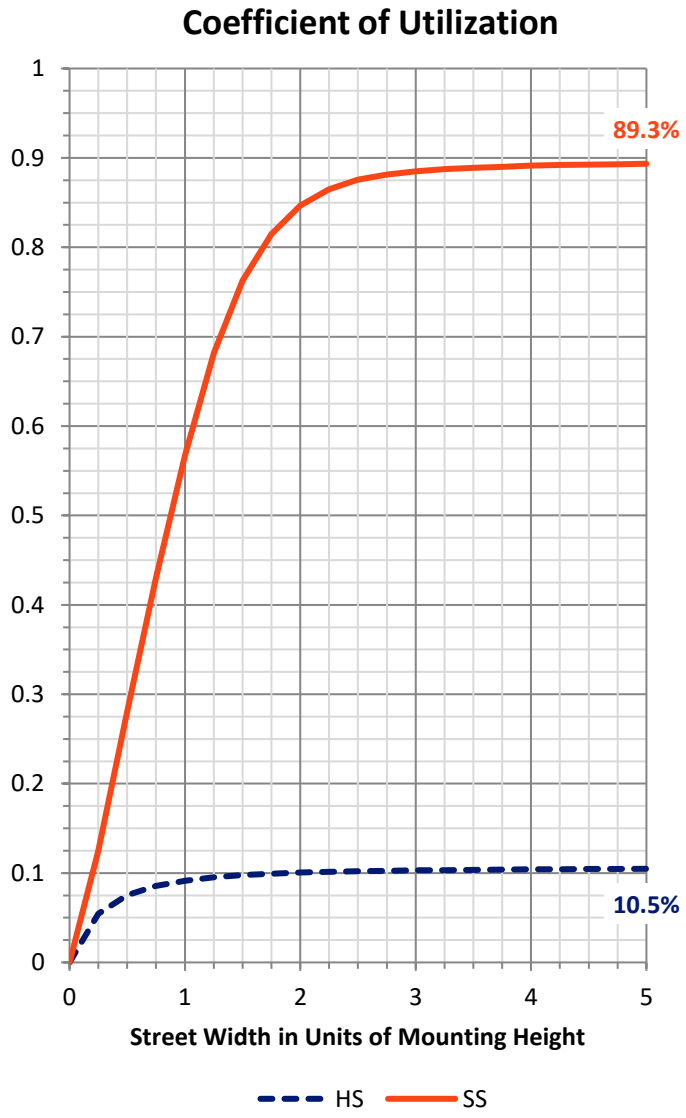
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	328.8	0.0	328.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2780.2	0.0	2780.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	3109.0	0.0	3109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.3
10°-20°	132.4	4.3
20°-30°	239.5	7.7
30°-40°	374.5	12.0
40°-50°	568.1	18.3
50°-60°	721.8	23.2
60°-70°	674.4	21.7
70°-80°	335.2	10.8
80°-90°	22.5	0.7
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°	3109.0	100.0
0°-180°	3109.0	100.0



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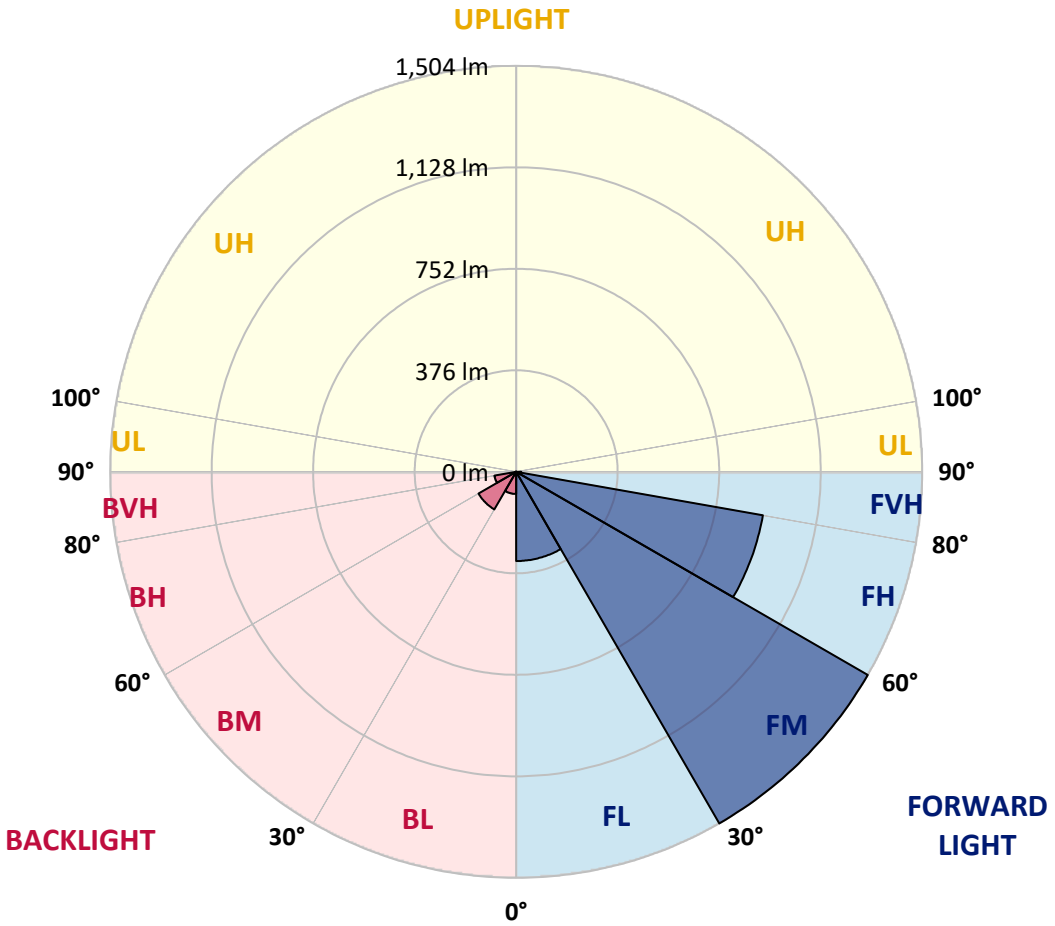
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	330.3	10.6			
FM	(30°-60°)	1503.5	48.4			
FH	(60°-80°)	927.7	29.8			G1/1800
FVH	(80°-90°)	18.5	0.6			G1/100
BL	(0°-30°)	82.1	2.6	B0/110		
BM	(30°-60°)	160.8	5.2	B0/220		
BH	(60°-80°)	81.9	2.6	B0/110		G0/110
BVH	(80°-90°)	4.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	*411.5*	411.5	411.5
2.5°	480.6	484.5	486.4	487.1	472.1	465.6	459.1	444.1	*440.8*	432.3	421.2
5°	565.3	570.6	569.3	566.7	548.4	527.5	510.6	482.5	*478.0*	457.8	433.0
7.5°	648.8	653.4	652.1	642.3	622.1	592.7	564.7	523.6	*517.1*	484.5	444.7
10°	718.6	722.5	721.8	712.1	687.9	652.1	618.2	563.4	*555.6*	509.3	454.5
12.5°	776.0	781.2	780.5	774.0	752.5	713.4	674.9	609.0	*599.3*	539.3	468.2
15°	821.0	827.5	827.5	824.9	809.9	777.3	733.6	659.2	*647.5*	573.8	485.1
17.5°	848.3	853.6	858.1	862.7	852.3	827.5	787.7	709.5	*697.1*	607.7	502.7
20°	862.7	867.9	871.2	881.0	882.9	870.5	839.2	759.0	*746.0*	646.2	523.0
22.5°	886.2	890.7	891.4	899.9	903.8	907.0	887.5	807.9	*797.5*	688.6	545.8
25°	925.3	930.5	928.6	932.5	933.1	937.0	935.1	864.0	*853.6*	736.8	573.2
27.5°	975.5	982.0	980.7	976.8	970.9	967.7	976.2	920.7	*910.9*	785.1	601.2
30°	1029.6	1037.5	1035.5	1027.7	1012.0	998.3	1010.1	974.2	*965.1*	834.7	632.5
32.5°	1084.4	1093.5	1092.9	1079.8	1053.1	1029.6	1047.2	1024.4	*1017.9*	888.1	666.4
35°	1120.3	1132.0	1130.7	1122.9	1088.3	1068.1	1089.6	1075.9	*1071.4*	953.3	715.3
37.5°	1178.3	1190.7	1179.6	1160.0	1120.3	1109.8	1135.9	1134.0	*1130.7*	1022.5	766.8
40°	1319.1	1337.4	1308.1	1227.9	1162.6	1153.5	1190.7	1198.5	*1195.3*	1090.9	813.1
42.5°	1466.5	1493.9	1448.3	1337.4	1239.6	1206.3	1250.7	1261.8	*1257.9*	1149.6	854.9
45°	1555.9	1567.6	1521.9	1435.9	1375.9	1270.2	1314.6	1332.8	*1329.6*	1220.0	908.3
47.5°	1628.9	1624.3	1572.2	1514.1	1525.2	1360.2	1387.0	1422.8	*1420.2*	1297.6	967.0
50°	1644.5	1634.1	1613.2	1576.7	1606.1	1451.5	1463.3	1525.2	*1522.6*	1383.7	1026.4
52.5°	1534.3	1520.6	1577.4	1608.0	1598.2	1518.0	1547.4	1637.4	*1636.1*	1476.9	1083.1
55°	1259.2	1248.1	1400.7	1559.1	1589.8	1565.0	1640.6	1754.1	*1761.3*	1576.1	1134.6
57.5°	990.5	978.8	1128.7	1436.5	1558.5	1608.0	1749.5	1887.8	*1896.9*	1683.7	1183.5
60°	789.7	772.1	886.8	1243.5	1499.8	1641.3	1854.5	2034.5	*2035.8*	1782.1	1213.5
62.5°	536.7	517.1	644.2	999.0	1401.3	1646.5	1935.4	2161.0	*2166.2*	1855.8	1218.7
65°	*326.0*	*309.7*	*395.8*	*729.7*	*1255.9*	*1602.1*	*1936.7*	*2254.2*	*2258.8*	*1889.7*	*1187.4*
67.5°	189.1	182.6	226.3	454.5	1014.6	1482.8	1855.2	2239.9	*2248.4*	1875.4	1116.4
70°	110.2	109.5	125.9	225.0	716.0	1246.1	1673.2	2119.2	*2131.6*	1800.4	1007.5
72.5°	80.9	82.2	88.7	120.6	414.7	897.3	1417.0	1876.7	*1895.6*	1653.7	852.3
75°	63.9	64.6	70.4	82.2	217.8	507.3	1061.6	1506.3	*1521.3*	1392.2	665.8
77.5°	47.6	48.9	53.5	58.0	101.1	232.8	597.3	927.9	*903.1*	764.2	321.5
80°	34.6	37.8	39.8	41.7	53.5	90.0	179.3	323.4	*320.8*	333.9	151.9
82.5°	22.2	24.8	26.7	28.0	32.0	43.0	53.5	72.4	*78.2*	129.8	60.6
85°	9.8	11.1	12.4	15.0	13.7	15.0	22.2	14.3	*12.4*	19.6	11.1
87.5°	0.0	0.0	2.0	3.3	2.6	1.3	3.9	2.6	*2.0*	2.0	2.0
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°	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5
2.5°	415.4	408.2	393.2	378.9	370.4	359.3	349.5	340.4	339.7	337.1	332.6
5°	420.6	406.9	378.9	352.1	331.9	310.4	292.1	277.8	272.6	268.7	263.4
7.5°	425.8	404.3	362.6	323.4	291.5	261.5	240.0	220.4	214.5	209.3	206.1
10°	427.8	399.7	343.6	291.5	249.7	217.8	195.0	180.6	175.4	172.8	170.8
12.5°	433.6	397.1	326.0	261.5	213.2	183.9	167.6	159.1	157.1	155.2	153.2
15°	441.5	397.1	308.4	232.1	184.5	161.1	151.3	145.4	144.1	143.5	142.2
17.5°	449.9	397.1	291.5	207.4	163.7	146.1	138.9	135.6	135.0	134.3	133.7
20°	461.7	397.8	273.2	185.8	148.7	135.0	129.1	125.2	124.5	123.9	123.9
22.5°	473.4	399.1	255.6	169.5	138.9	126.5	119.3	115.4	114.1	114.1	114.1
25°	488.4	403.0	239.3	155.8	130.4	118.7	109.5	106.3	105.6	105.6	105.0
27.5°	506.0	407.5	225.0	145.4	121.9	109.5	100.4	97.2	95.9	95.9	95.2
30°	524.9	412.1	213.2	137.6	113.5	100.4	91.9	88.0	86.7	87.4	86.7
32.5°	545.8	418.6	204.1	132.4	105.6	92.6	84.8	80.2	79.6	79.6	78.9
35°	581.0	436.9	202.8	129.8	99.1	86.7	78.9	74.3	73.7	73.7	73.0
37.5°	618.8	457.8	208.7	128.5	93.9	81.5	74.3	69.8	69.1	69.1	69.1
40°	650.8	473.4	215.2	128.5	90.6	76.9	70.4	66.5	66.5	66.5	66.5
42.5°	672.3	474.7	213.9	128.5	88.0	73.7	67.8	63.9	63.9	64.6	63.9
45°	704.2	481.2	208.7	126.5	86.1	71.1	65.2	61.9	61.3	61.9	61.9
47.5°	742.1	493.0	203.4	118.7	85.4	68.5	63.3	59.3	58.7	59.3	58.7
50°	777.9	503.4	200.8	108.2	84.1	65.9	60.6	56.7	56.1	56.7	56.1
52.5°	807.9	508.0	196.3	101.1	80.9	63.3	58.0	54.1	52.8	53.5	53.5
55°	832.0	506.7	189.8	95.2	75.0	60.6	54.8	51.5	49.6	49.6	48.9
57.5°	854.2	507.3	183.9	89.3	68.5	56.7	52.2	48.3	45.6	45.0	44.3
60°	862.7	504.1	173.5	81.5	61.9	53.5	48.9	44.3	41.7	41.1	40.4
62.5°	851.0	492.3	159.8	67.8	56.1	49.6	45.6	41.1	38.5	37.8	37.2
65°	*817.7*	*470.1*	*138.9*	*53.5*	*50.9*	*45.0*	*41.7*	*38.5*	*35.2*	*33.9*	*33.3*
67.5°	761.0	438.2	112.8	43.0	45.0	41.1	39.1	35.2	31.3	30.0	29.3
70°	680.1	395.8	84.8	36.5	39.8	36.5	35.2	31.3	28.0	26.7	26.1
72.5°	566.7	327.3	59.3	31.3	34.6	32.0	30.6	28.0	24.8	22.8	22.8
75°	428.4	234.7	39.1	26.7	28.7	27.4	25.4	23.5	21.5	20.2	19.6
77.5°	184.5	91.3	24.1	20.2	23.5	22.8	20.2	18.9	18.3	17.0	17.0
80°	79.6	37.2	15.0	15.0	17.0	16.3	15.6	14.3	14.3	13.7	13.0
82.5°	29.3	15.0	9.1	11.1	12.4	11.1	11.1	11.1	11.1	10.4	10.4
85°	7.2	4.6	4.6	6.5	7.2	6.5	7.2	6.5	6.5	6.5	5.9
87.5°	2.0	2.0	2.6	2.6	2.6	2.6	2.6	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)