

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: P691029

Luminaire Tested: **CRTK2-C013-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2685 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B1 - U3 - G1

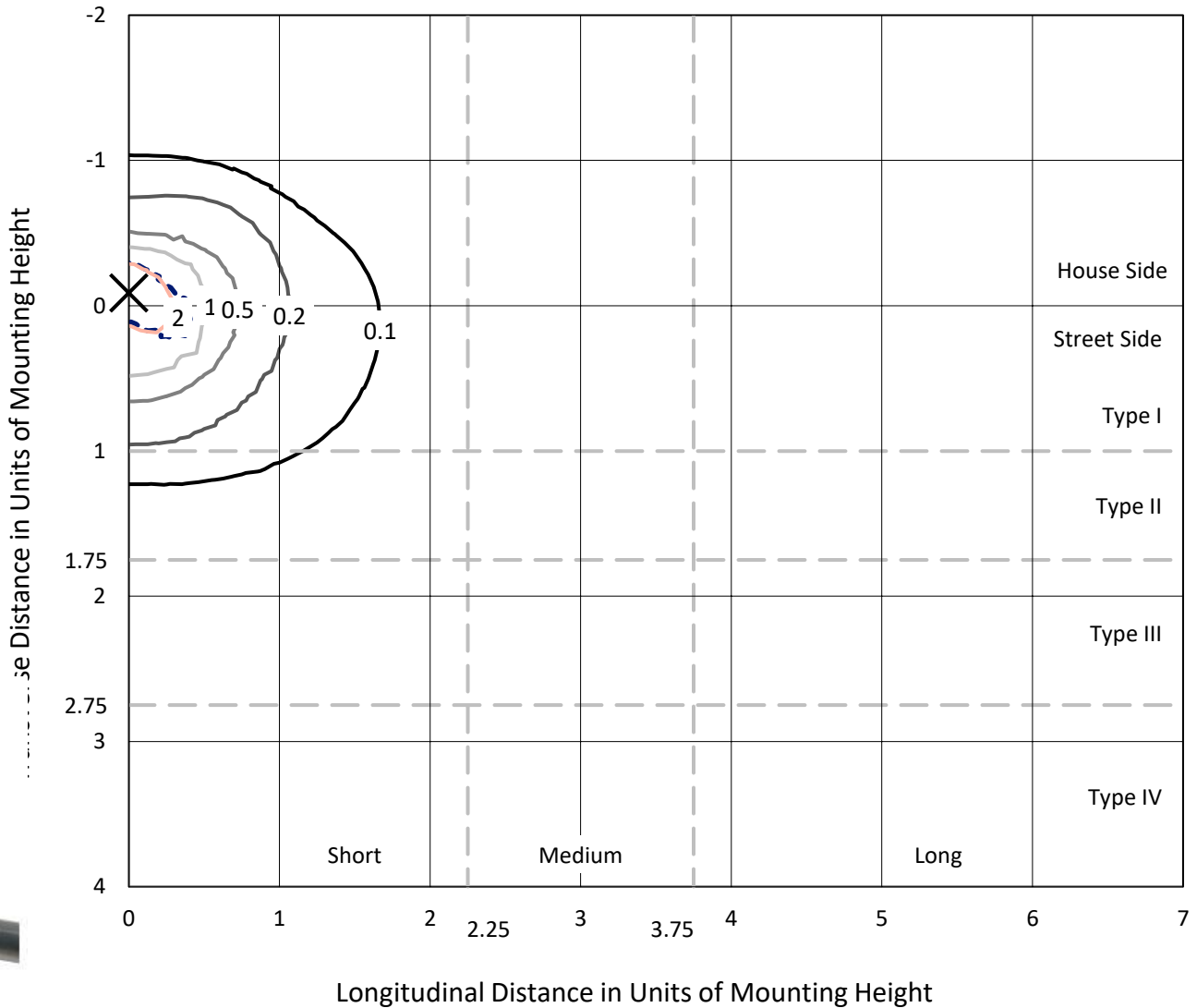
Input Watts (W): 23.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

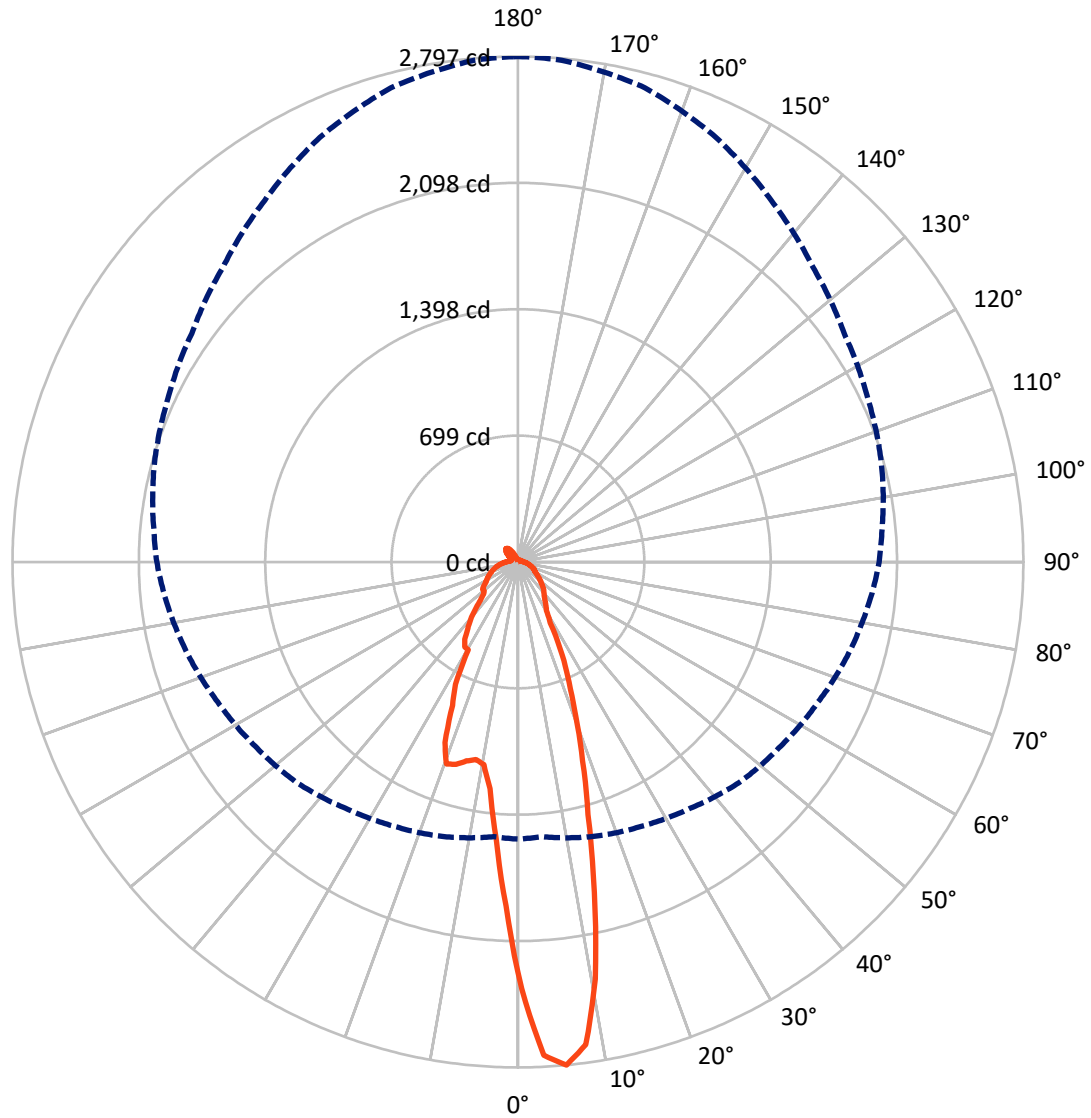
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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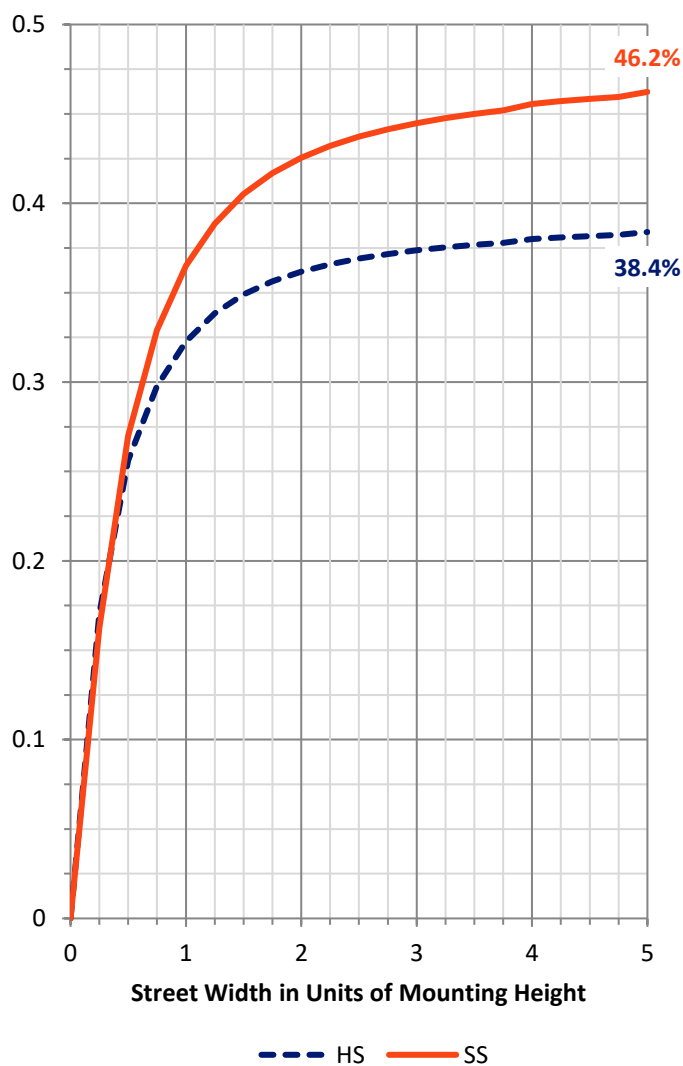
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1058.1	124.2	1182.4
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	1271.7	230.9	1502.6
	% Fixture	47.4	8.6	56.0
Total	Lumens	2329.8	355.2	2685.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	6.8
10°-20°	387.7	14.4
20°-30°	421.9	15.7
30°-40°	308.9	11.5
40°-50°	259.7	9.7
50°-60°	263.7	9.8
60°-70°	224.2	8.3
70°-80°	167.3	6.2
80°-90°	113.8	4.2
90°-100°	68.4	2.5
100°-110°	39.2	1.5
110°-120°	36.1	1.3
120°-130°	52.4	2.0
130°-140°	72.1	2.7
140°-150°	59.7	2.2
150°-160°	24.3	0.9
160°-170°	3.0	0.1
170°-180°	0.0	0.0
0°-90°	2329.8	86.8
0°-180°	2685.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691029

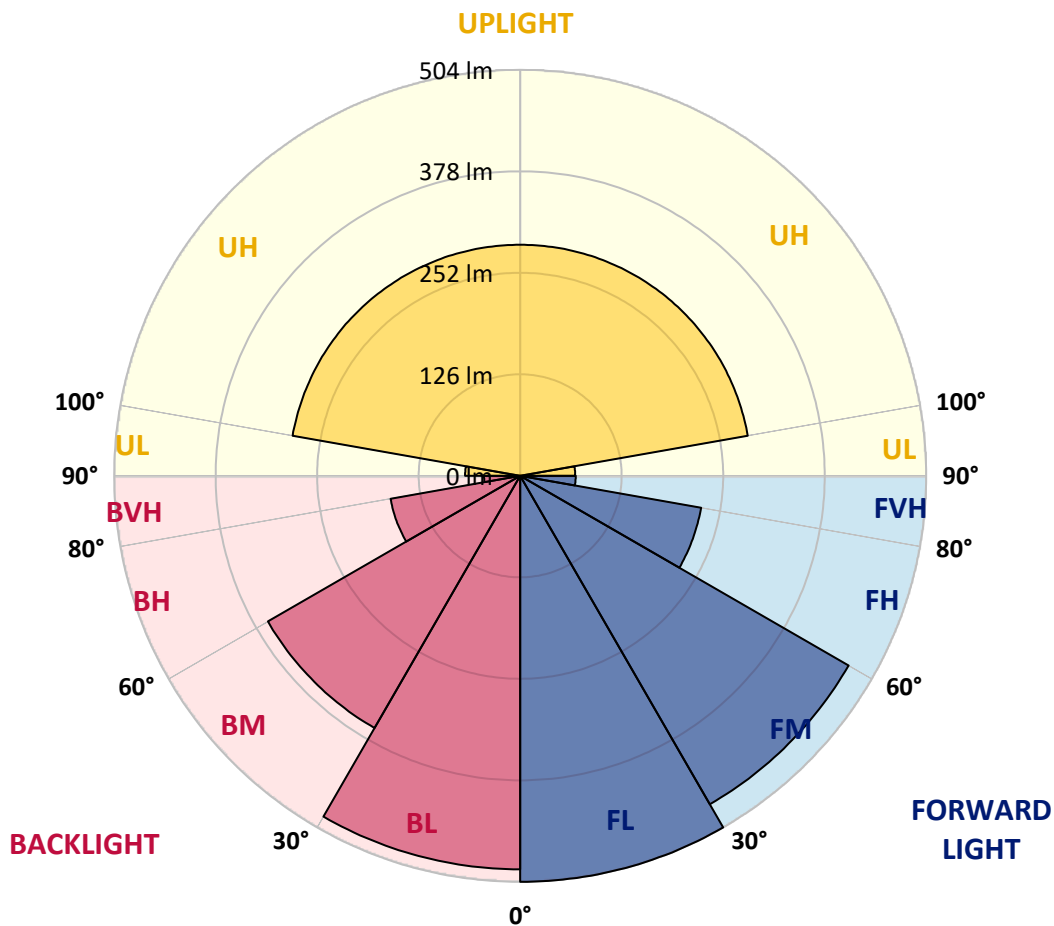
CATALOG NUMBER: CRTK2-C013-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.9	18.8			
FM (30°-60°)	470.7	17.5			
FH (60°-80°)	228.1	8.5			G0/660
FVH (80°-90°)	68.9	2.6			G1/100
BL (0°-30°)	488.4	18.2	B1/500		
BM (30°-60°)	361.5	13.5	B1/1000		
BH (60°-80°)	163.3	6.1	B1/500		G1/500
BVH (80°-90°)	44.9	1.7			G1/100
UL (90°-100°)	68.4	2.5		U3/500	
UH (100°-180°)	286.8	10.7		U3/500	

BUG Rating: B1-U3-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3
2.5°	1903.6	1900.0	1926.3	1932.2	1934.6	1962.1	1999.2	2024.3	2069.8	2114.0	2131.9
5°	1532.9	1525.7	1573.5	1614.2	1663.2	1727.8	1775.6	1833.0	1901.2	1966.9	1998.0
7.5°	1263.9	1273.4	1341.6	1425.3	1504.2	1580.7	1639.3	1688.3	1727.8	1769.6	1778.0
10°	1137.1	1145.5	1212.4	1292.6	1365.5	1443.2	1493.4	1535.3	1560.4	1591.5	1602.2
12.5°	1116.8	1122.8	1168.2	1224.4	1279.4	1349.9	1413.3	1459.9	1488.6	1513.8	1516.1
15°	1137.1	1139.5	1167.0	1204.1	1251.9	1310.5	1383.4	1436.0	1468.3	1479.1	1476.7
17.5°	1170.6	1170.6	1183.7	1214.8	1260.3	1316.5	1385.8	1439.6	1473.1	1477.9	1468.3
20°	1184.9	1187.3	1195.7	1230.4	1271.0	1322.4	1391.8	1437.2	1463.5	1450.4	1433.6
22.5°	1077.3	1072.5	1095.3	1168.2	1259.1	1351.1	1416.9	1468.3	1482.7	1438.4	1402.6
25°	871.7	874.1	888.4	924.3	994.8	1079.7	1225.6	1382.2	1491.0	1474.3	1420.5
27.5°	760.5	753.3	756.9	762.9	753.3	735.4	752.1	748.5	746.1	789.2	793.9
30°	558.4	559.6	565.6	576.3	599.0	632.5	668.4	688.7	706.7	740.1	735.4
32.5°	554.8	556.0	559.6	569.2	581.1	603.8	626.5	634.9	654.0	681.5	673.2
35°	518.9	515.3	524.9	533.3	536.9	546.4	564.4	576.3	588.3	607.4	602.6
37.5°	460.3	461.5	480.7	493.8	497.4	510.6	527.3	536.9	550.0	566.8	558.4
40°	410.1	411.3	434.0	448.4	456.8	474.7	499.8	511.8	533.3	546.4	536.9
42.5°	352.7	357.5	373.1	389.8	394.6	405.3	422.1	437.6	465.1	483.1	477.1
45°	294.1	296.5	307.3	324.0	331.2	343.2	358.7	373.1	394.6	408.9	407.7
47.5°	259.5	261.9	271.4	285.8	300.1	315.7	332.4	346.8	367.1	379.0	374.3
50°	245.1	247.5	259.5	276.2	294.1	314.5	334.8	350.3	369.5	376.6	370.7
52.5°	247.5	247.5	264.2	285.8	310.9	338.4	363.5	382.6	398.2	403.0	389.8
55°	234.4	237.9	255.9	285.8	324.0	367.1	410.1	450.8	473.5	468.7	443.6
57.5°	214.0	217.6	230.8	263.1	303.7	355.1	416.1	466.3	493.8	497.4	472.3
60°	202.1	204.5	216.4	241.5	277.4	319.3	374.3	414.9	446.0	455.6	437.6
62.5°	191.3	193.7	203.3	222.4	248.7	281.0	312.1	338.4	363.5	373.1	365.9
65°	179.4	180.6	190.1	206.9	228.4	255.9	282.2	301.3	321.6	327.6	319.3
67.5°	167.4	168.6	177.0	192.5	212.8	237.9	258.3	279.8	300.1	304.9	298.9
70°	156.6	157.8	165.0	179.4	197.3	221.2	240.3	254.7	275.0	279.8	272.6
72.5°	145.9	147.1	154.2	167.4	184.1	205.7	222.4	236.7	253.5	254.7	248.7
75°	135.1	136.3	142.3	154.2	168.6	190.1	205.7	217.6	232.0	232.0	224.8
77.5°	123.2	125.5	130.3	141.1	154.2	174.6	188.9	200.9	212.8	211.6	204.5
80°	112.4	113.6	118.4	127.9	139.9	159.0	173.4	182.9	193.7	192.5	186.5
82.5°	100.4	101.6	105.2	114.8	125.5	143.5	157.8	167.4	177.0	174.6	168.6
85°	88.5	89.7	94.5	101.6	112.4	129.1	142.3	151.9	159.0	156.6	151.9
87.5°	78.9	78.9	82.5	89.7	99.2	114.8	126.7	136.3	142.3	141.1	136.3
90°	68.2	69.4	71.7	77.7	86.1	99.2	111.2	119.6	125.5	123.2	118.4
92.5°	59.8	59.8	62.2	68.2	75.3	87.3	98.0	105.2	110.0	108.8	105.2
95°	51.4	52.6	53.8	58.6	64.6	74.1	83.7	90.9	95.7	94.5	92.1
97.5°	45.4	46.6	47.8	50.2	56.2	62.2	70.5	76.5	81.3	80.1	77.7
100°	41.8	41.8	41.8	44.2	47.8	52.6	58.6	63.4	65.8	67.0	64.6
102.5°	38.3	38.3	39.5	39.5	41.8	44.2	47.8	51.4	52.6	52.6	52.6
105°	37.1	37.1	38.3	38.3	39.5	40.7	43.0	44.2	45.4	45.4	44.2
107.5°	37.1	37.1	37.1	37.1	38.3	39.5	40.7	41.8	41.8	41.8	40.7
110°	38.3	38.3	38.3	38.3	38.3	39.5	39.5	40.7	40.7	39.5	39.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	39.5	39.5	39.5	39.5	39.5	40.7	40.7	40.7	40.7	39.5	39.5
115°	41.8	41.8	41.8	43.0	43.0	43.0	43.0	43.0	43.0	41.8	40.7
117.5°	46.6	46.6	46.6	46.6	47.8	47.8	47.8	47.8	47.8	45.4	45.4
120°	52.6	51.4	52.6	53.8	55.0	55.0	55.0	55.0	55.0	52.6	51.4
122.5°	58.6	58.6	59.8	62.2	64.6	65.8	64.6	64.6	64.6	61.0	59.8
125°	65.8	65.8	69.4	74.1	77.7	78.9	77.7	77.7	77.7	74.1	71.7
127.5°	74.1	74.1	78.9	86.1	92.1	95.7	94.5	94.5	94.5	88.5	84.9
130°	82.5	82.5	89.7	99.2	108.8	111.2	112.4	113.6	113.6	106.4	101.6
132.5°	88.5	89.7	98.0	111.2	123.2	126.7	130.3	131.5	131.5	123.2	116.0
135°	94.5	95.7	106.4	122.0	135.1	143.5	147.1	148.3	149.5	139.9	131.5
137.5°	98.0	99.2	111.2	129.1	142.3	153.0	161.4	163.8	163.8	153.0	142.3
140°	98.0	99.2	112.4	129.1	143.5	156.6	166.2	171.0	171.0	160.2	150.7
142.5°	95.7	98.0	110.0	126.7	141.1	154.2	165.0	169.8	169.8	160.2	150.7
145°	90.9	92.1	104.0	118.4	132.7	148.3	160.2	165.0	165.0	155.4	145.9
147.5°	82.5	83.7	93.3	106.4	120.8	136.3	148.3	154.2	153.0	144.7	136.3
150°	71.7	71.7	80.1	90.9	105.2	119.6	131.5	137.5	137.5	129.1	122.0
152.5°	58.6	58.6	64.6	72.9	84.9	99.2	108.8	114.8	114.8	108.8	102.8
155°	45.4	45.4	50.2	56.2	65.8	76.5	83.7	89.7	89.7	84.9	80.1
157.5°	32.3	32.3	37.1	41.8	49.0	57.4	63.4	67.0	68.2	63.4	61.0
160°	21.5	21.5	23.9	27.5	33.5	39.5	43.0	46.6	47.8	44.2	43.0
162.5°	12.0	12.0	13.2	16.7	20.3	23.9	27.5	29.9	29.9	28.7	27.5
165°	3.6	3.6	4.8	6.0	8.4	10.8	12.0	13.2	14.3	14.3	13.2
167.5°	0.0	0.0	1.2	1.2	1.2	1.2	2.4	2.4	3.6	3.6	3.6
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3
2.5°	2169.0	2236.0	2308.9	2379.4	2465.5	2555.2	2637.7	2693.9	2723.8	2733.4	2733.4
5°	2021.9	2082.9	2136.7	2203.7	2307.7	2442.8	2592.3	2716.6	2787.2	2795.5	2796.7
7.5°	1792.4	1842.6	1898.8	1958.6	2050.6	2171.4	2368.7	2569.6	2684.3	2705.9	2697.5
10°	1604.6	1635.7	1669.2	1691.9	1756.5	1846.2	1980.1	2177.4	2318.5	2335.2	2347.2
12.5°	1517.3	1522.1	1512.6	1517.3	1538.9	1580.7	1646.5	1760.1	1852.1	1867.7	1876.1
15°	1473.1	1449.2	1410.9	1375.1	1355.9	1359.5	1373.9	1420.5	1436.0	1462.3	1450.4
17.5°	1452.8	1399.0	1339.2	1269.8	1226.8	1182.5	1158.6	1150.3	1144.3	1145.5	1156.2
20°	1401.4	1340.4	1244.7	1153.8	1084.5	1023.5	972.1	935.0	914.7	905.1	912.3
22.5°	1347.6	1253.1	1140.7	1042.6	943.4	865.7	807.1	753.3	723.4	731.8	722.2
25°	1348.7	1207.7	1073.7	944.6	851.3	748.5	655.2	599.0	550.0	559.6	572.7
27.5°	850.1	813.1	717.4	642.1	548.8	497.4	450.8	411.3	383.8	385.0	381.4
30°	721.0	682.7	634.9	575.1	504.6	444.8	391.0	345.6	319.3	312.1	310.9
32.5°	666.0	633.7	589.5	530.9	466.3	406.5	352.7	310.9	284.6	283.4	283.4
35°	593.1	563.2	526.1	475.9	420.9	365.9	315.7	279.8	258.3	258.3	257.1
37.5°	547.6	521.3	485.5	438.8	389.8	334.8	290.6	258.3	235.6	234.4	235.6
40°	523.7	496.2	461.5	417.3	368.3	315.7	273.8	240.3	223.6	222.4	221.2
42.5°	475.9	454.4	424.5	383.8	340.8	294.1	254.7	224.8	210.4	209.2	210.4
45°	404.1	388.6	368.3	338.4	302.5	263.1	228.4	205.7	191.3	191.3	191.3
47.5°	370.7	356.3	333.6	303.7	272.6	235.6	206.9	187.7	174.6	174.6	174.6
50°	362.3	344.4	314.5	281.0	247.5	215.2	188.9	169.8	160.2	159.0	160.2
52.5°	374.3	346.8	306.1	266.6	229.6	198.5	173.4	155.4	145.9	145.9	145.9
55°	417.3	367.1	313.3	263.1	218.8	184.1	159.0	141.1	131.5	130.3	131.5
57.5°	446.0	382.6	315.7	259.5	211.6	174.6	147.1	127.9	118.4	117.2	118.4
60°	420.9	369.5	304.9	249.9	205.7	167.4	138.7	119.6	110.0	108.8	108.8
62.5°	349.1	319.3	272.6	226.0	190.1	156.6	130.3	112.4	102.8	101.6	102.8
65°	309.7	283.4	242.7	205.7	174.6	145.9	123.2	107.6	98.0	98.0	98.0
67.5°	288.2	264.2	226.0	190.1	161.4	135.1	113.6	99.2	90.9	90.9	90.9
70°	263.1	239.1	204.5	172.2	145.9	123.2	104.0	89.7	82.5	81.3	82.5
72.5°	241.5	217.6	185.3	155.4	131.5	111.2	94.5	81.3	75.3	74.1	75.3
75°	217.6	194.9	163.8	137.5	117.2	99.2	84.9	72.9	68.2	67.0	67.0
77.5°	197.3	175.8	147.1	123.2	105.2	88.5	75.3	67.0	62.2	61.0	61.0
80°	179.4	159.0	131.5	110.0	93.3	78.9	68.2	59.8	55.0	55.0	55.0
82.5°	160.2	142.3	117.2	96.9	82.5	70.5	59.8	52.6	49.0	49.0	49.0
85°	144.7	126.7	102.8	86.1	71.7	61.0	52.6	46.6	43.0	43.0	43.0
87.5°	127.9	112.4	90.9	75.3	63.4	53.8	45.4	39.5	38.3	37.1	37.1
90°	111.2	96.9	77.7	64.6	53.8	45.4	38.3	33.5	32.3	31.1	31.1
92.5°	99.2	86.1	70.5	58.6	49.0	40.7	35.9	31.1	29.9	29.9	28.7
95°	86.1	75.3	62.2	52.6	44.2	38.3	33.5	29.9	28.7	28.7	27.5
97.5°	74.1	64.6	55.0	47.8	40.7	35.9	31.1	28.7	26.3	26.3	26.3
100°	62.2	55.0	47.8	40.7	37.1	32.3	28.7	26.3	25.1	23.9	23.9
102.5°	50.2	45.4	39.5	35.9	31.1	27.5	25.1	22.7	21.5	21.5	21.5
105°	43.0	39.5	35.9	32.3	28.7	25.1	22.7	20.3	19.1	19.1	19.1
107.5°	39.5	37.1	33.5	29.9	27.5	23.9	21.5	17.9	16.7	17.9	17.9
110°	38.3	35.9	32.3	29.9	26.3	23.9	21.5	16.7	15.5	16.7	16.7



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	38.3	35.9	33.5	29.9	27.5	23.9	21.5	16.7	15.5	15.5	15.5
115°	39.5	38.3	34.7	32.3	28.7	25.1	21.5	16.7	15.5	15.5	15.5
117.5°	44.2	41.8	38.3	34.7	31.1	26.3	22.7	16.7	15.5	15.5	15.5
120°	49.0	46.6	43.0	38.3	33.5	28.7	23.9	16.7	14.3	15.5	15.5
122.5°	57.4	53.8	49.0	43.0	37.1	31.1	23.9	17.9	13.2	15.5	15.5
125°	68.2	63.4	56.2	47.8	40.7	33.5	25.1	17.9	14.3	15.5	15.5
127.5°	80.1	74.1	64.6	53.8	44.2	34.7	26.3	17.9	14.3	14.3	15.5
130°	95.7	86.1	72.9	59.8	47.8	37.1	26.3	17.9	14.3	14.3	14.3
132.5°	108.8	96.9	80.1	64.6	50.2	38.3	26.3	17.9	13.2	13.2	13.2
135°	122.0	106.4	86.1	68.2	52.6	38.3	26.3	16.7	13.2	13.2	13.2
137.5°	132.7	112.4	90.9	69.4	52.6	37.1	25.1	15.5	12.0	12.0	12.0
140°	138.7	116.0	92.1	69.4	50.2	35.9	22.7	14.3	10.8	10.8	10.8
142.5°	138.7	114.8	90.9	67.0	47.8	33.5	20.3	12.0	9.6	9.6	9.6
145°	133.9	110.0	86.1	63.4	44.2	29.9	17.9	10.8	7.2	7.2	8.4
147.5°	125.5	101.6	78.9	57.4	39.5	25.1	15.5	8.4	6.0	6.0	6.0
150°	111.2	89.7	68.2	50.2	33.5	21.5	13.2	7.2	4.8	4.8	4.8
152.5°	93.3	74.1	57.4	41.8	27.5	16.7	9.6	6.0	3.6	3.6	3.6
155°	74.1	58.6	45.4	32.3	20.3	13.2	7.2	4.8	3.6	3.6	3.6
157.5°	55.0	44.2	33.5	23.9	15.5	9.6	6.0	3.6	2.4	2.4	2.4
160°	38.3	31.1	22.7	15.5	9.6	6.0	3.6	2.4	1.2	1.2	1.2
162.5°	25.1	19.1	14.3	9.6	6.0	3.6	2.4	1.2	1.2	1.2	1.2
165°	12.0	9.6	7.2	4.8	2.4	2.4	1.2	1.2	0.0	0.0	0.0
167.5°	3.6	2.4	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)