

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: P853285

Luminaire Tested: **CRTK-N-20-727-U-T3-RMARROA5**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P853285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-111-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK-N-20-727-U-T3-RMARROA5  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

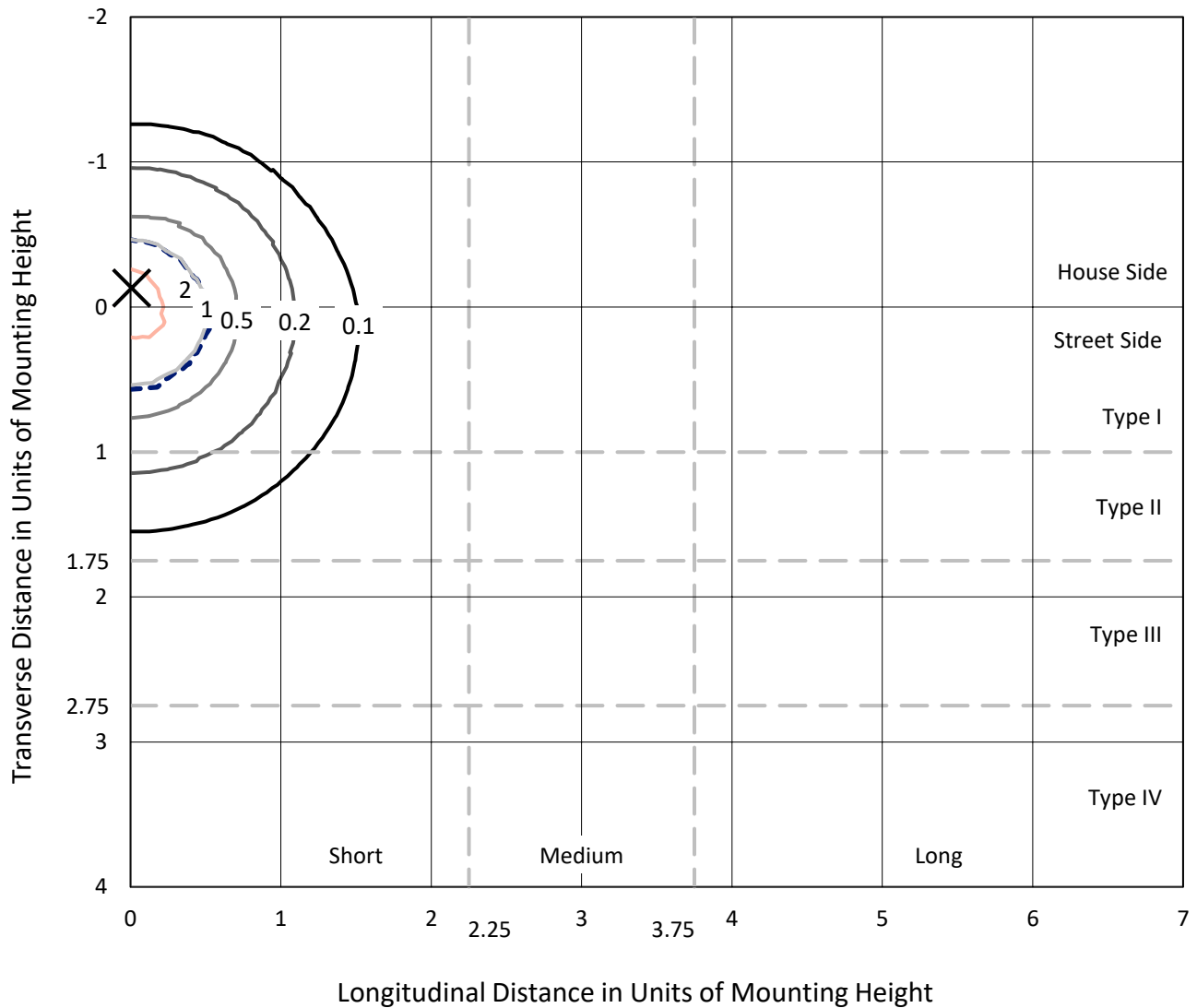
Lumens per Lamp: N/A  
Luminaire Lumens: 2888 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B1 - U3 - G1  
  
Input Watts (W): 23.2  
Input Voltage (V): 120.0  
Input Current (Ain): 0.196  
Voltage Rise (V): NR  
Power Factor: 0.9875  
Total Harmonic Distortion (THDi): 10%  
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

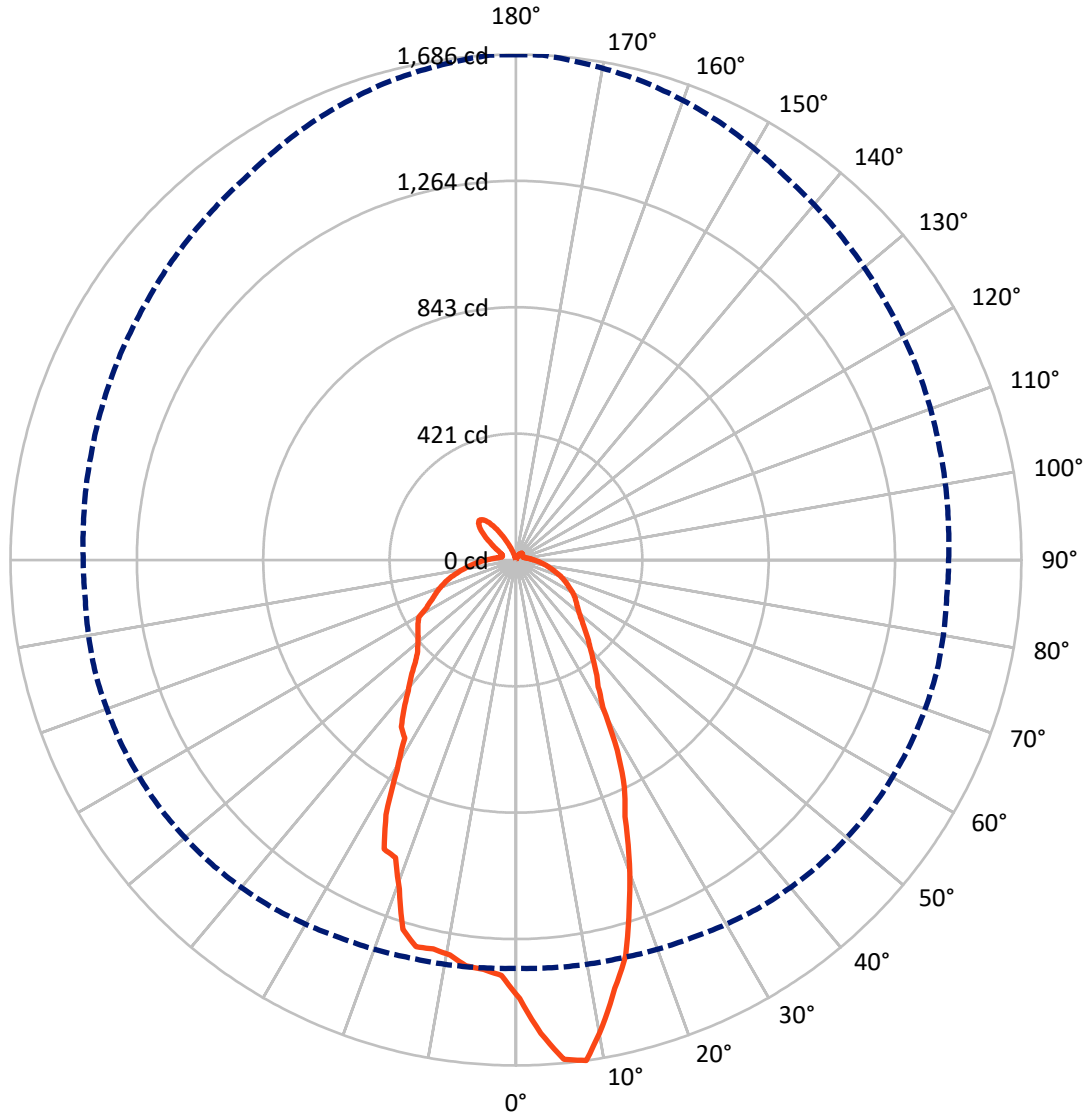
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 177-Deg Lateral      - - - Horizontal Cone Through 7.5-Deg Vertical

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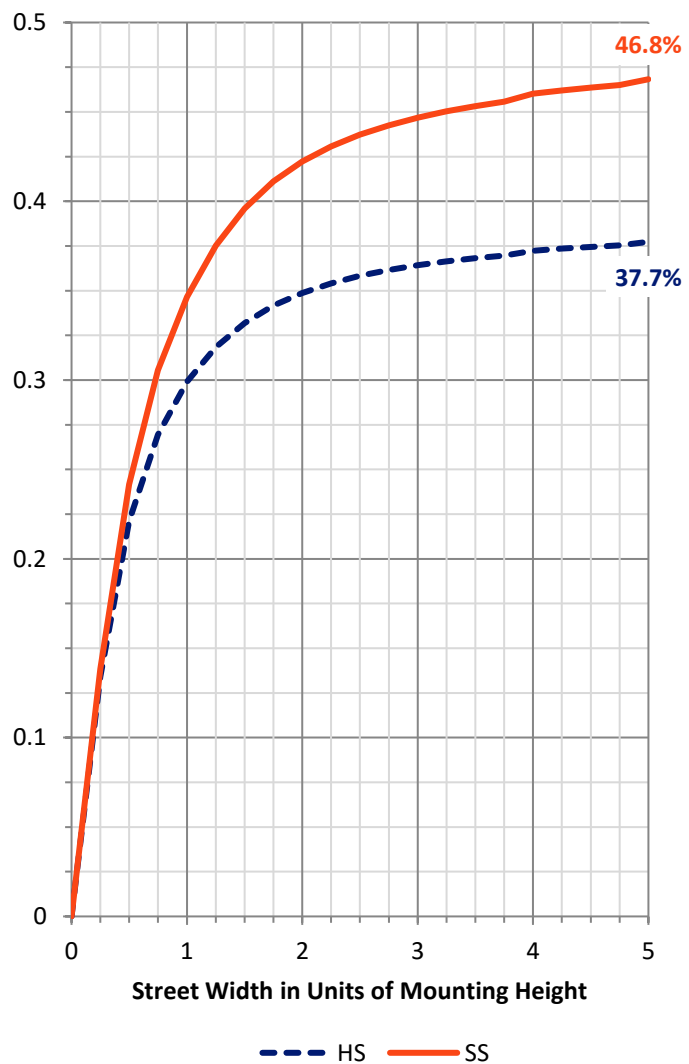
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1121.2	132.7	1253.8
	% Fixture	38.8	4.6	43.4
<b>Street Side</b>	Lumens	1389.5	244.7	1634.2
	% Fixture	48.1	8.5	56.6
<b>Total</b>	Lumens	2510.6	377.4	2888.0
	% Fixture	86.9	13.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	4.9
10°-20°	368.3	12.8
20°-30°	421.0	14.6
30°-40°	359.0	12.4
40°-50°	319.2	11.1
50°-60°	307.9	10.7
60°-70°	267.6	9.3
70°-80°	200.9	7.0
80°-90°	126.1	4.4
90°-100°	68.5	2.4
100°-110°	42.3	1.5
110°-120°	42.9	1.5
120°-130°	62.0	2.1
130°-140°	79.6	2.8
140°-150°	59.5	2.1
150°-160°	20.3	0.7
160°-170°	2.1	0.1
170°-180°	0.0	0.0
0°-90°	2510.6	86.9
0°-180°	2888.0	100.0

**Coefficient of Utilization**



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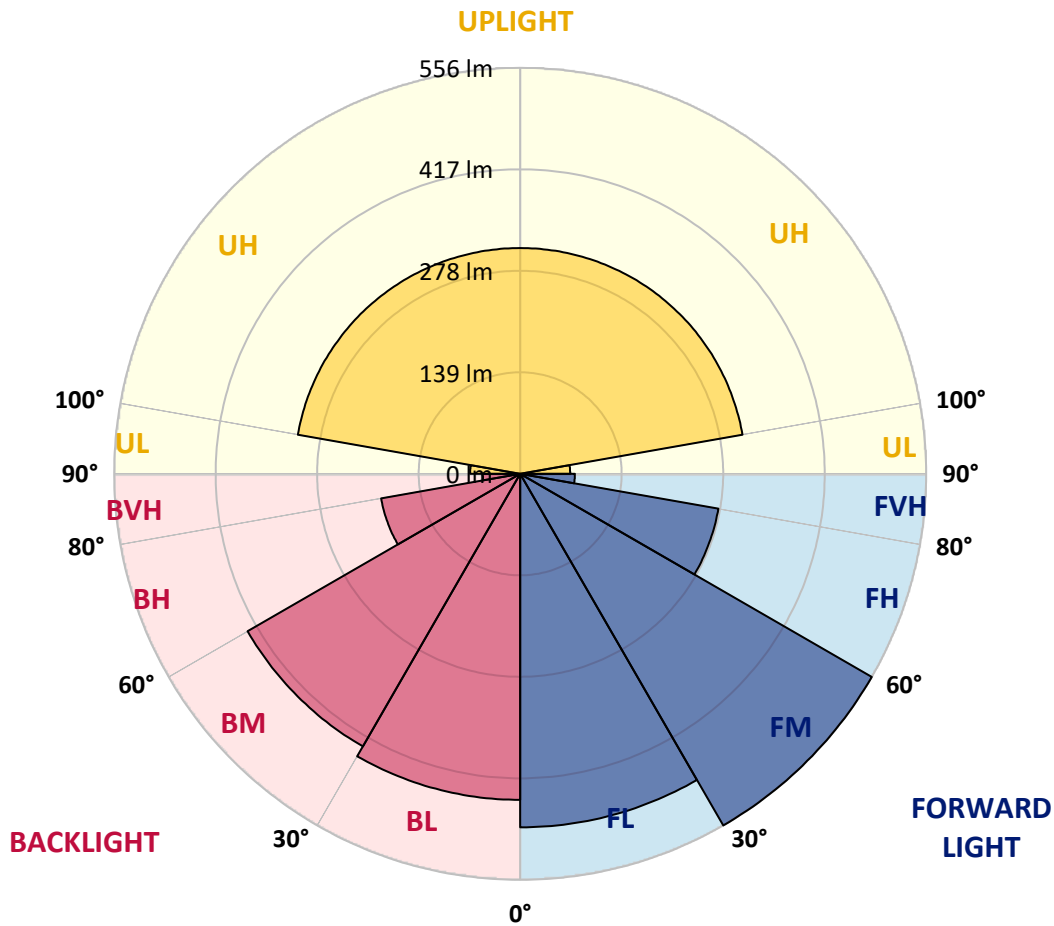
CATALOG NUMBER: CRTK-N-20-727-U-T3-RMARROA5

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.6	16.7			
FM (30°-60°)	555.5	19.2			
FH (60°-80°)	275.4	9.5			G0/660
FVH (80°-90°)	74.9	2.6			G1/100
BL (0°-30°)	446.1	15.4	B1/500		
BM (30°-60°)	430.6	14.9	B1/1000		
BH (60°-80°)	193.2	6.7	B1/500		G1/500
BVH (80°-90°)	51.2	1.8			G1/100
UL (90°-100°)	68.5	2.4		U3/500	
UH (100°-180°)	308.9	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°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	1386.1	1386.1	1393.4	1399.8	1408.1	1414.5	1423.7	1436.6	1446.7	1451.3	1458.7
5°	1368.6	1370.4	1380.5	1396.2	1411.8	1424.7	1440.3	1455.9	1466.0	1469.7	1477.0
7.5°	1362.2	1364.9	1373.2	1389.7	1415.5	1434.8	1446.7	1452.2	1452.2	1442.1	1443.0
10°	1332.7	1337.3	1347.4	1369.5	1395.2	1409.0	1408.1	1406.3	1397.1	1376.9	1372.3
12.5°	1326.3	1326.3	1341.9	1363.1	1382.4	1387.9	1380.5	1374.1	1354.8	1328.1	1319.9
15°	1326.3	1335.5	1348.4	1362.2	1374.1	1377.8	1376.9	1368.6	1350.2	1316.2	1302.4
17.5°	1283.1	1292.3	1289.5	1302.4	1315.3	1321.7	1319.9	1333.7	1350.2	1315.3	1296.9
20°	1162.7	1165.5	1171.9	1191.2	1273.0	1264.7	1257.4	1259.2	1240.8	1163.6	1141.6
22.5°	1061.6	1077.2	1108.5	1107.6	1117.7	1096.5	1123.2	1071.7	1098.4	1068.0	1048.7
25°	1057.9	1060.7	1014.7	999.1	1021.2	989.0	980.7	1016.6	1022.1	943.9	920.1
27.5°	947.6	957.7	959.6	922.8	906.3	900.7	843.8	887.0	880.5	905.3	882.4
30°	787.7	815.3	800.6	778.5	767.5	759.2	748.2	755.5	734.4	659.9	648.0
32.5°	700.4	699.5	697.6	698.5	687.5	673.7	663.6	657.2	646.1	631.4	622.3
35°	675.6	673.7	667.3	653.5	646.1	638.8	632.4	627.8	615.8	599.3	592.8
37.5°	618.6	619.5	612.1	601.1	594.7	586.4	577.2	569.9	557.0	541.4	537.7
40°	564.3	564.3	558.8	545.0	536.8	527.6	520.2	513.8	503.7	491.7	489.0
42.5°	522.1	522.1	517.5	503.7	496.3	487.1	478.9	473.4	466.0	456.8	454.1
45°	477.9	478.9	475.2	466.0	460.5	453.1	443.9	437.5	429.2	421.0	419.1
47.5°	448.5	447.6	449.5	441.2	436.6	429.2	422.8	417.3	414.5	410.9	405.3
50°	429.2	430.2	432.0	430.2	433.8	426.5	420.0	417.3	409.0	397.1	388.8
52.5°	411.8	415.4	417.3	418.2	420.0	418.2	414.5	406.3	391.6	381.4	373.2
55°	400.7	402.6	403.5	408.1	409.0	405.3	401.7	397.1	386.0	375.9	369.5
57.5°	387.9	390.6	395.2	400.7	401.7	398.9	399.8	397.1	387.9	381.4	370.4
60°	374.1	376.8	375.0	379.6	381.4	382.4	378.7	381.4	373.2	358.5	348.4
62.5°	335.5	337.3	338.2	345.6	347.4	345.6	341.0	335.5	328.1	318.9	313.4
65°	311.6	312.5	313.4	318.0	317.1	316.2	312.5	308.8	305.2	298.7	294.1
67.5°	290.4	292.3	292.3	296.9	295.0	294.1	290.4	287.7	284.9	279.4	274.8
70°	271.1	273.9	272.1	276.7	274.8	273.0	269.3	266.5	263.8	258.3	254.6
72.5°	250.0	252.8	251.8	255.5	253.7	251.8	249.1	246.3	241.7	237.1	233.5
75°	228.9	230.7	229.8	233.5	231.6	229.8	225.2	223.3	219.7	215.1	209.6
77.5°	204.0	206.8	206.8	209.6	205.9	205.0	201.3	200.4	197.6	193.0	188.4
80°	182.0	184.7	184.7	185.7	182.9	182.0	178.3	178.3	174.6	171.0	167.3
82.5°	159.9	162.7	161.8	162.7	159.9	159.0	155.3	156.3	153.5	149.8	147.1
85°	138.8	141.5	139.7	140.6	137.9	136.0	134.2	135.1	133.3	129.6	126.8
87.5°	120.4	120.4	119.5	120.4	117.6	115.8	114.9	115.8	113.1	110.3	108.5
90°	101.1	102.0	101.1	102.0	99.3	98.3	97.4	97.4	95.6	92.8	91.0
92.5°	85.5	85.5	84.6	85.5	83.6	83.6	82.7	82.7	81.8	79.0	78.1
95°	71.7	71.7	71.7	71.7	70.8	70.8	70.8	69.9	69.9	67.1	66.2
97.5°	61.6	61.6	60.7	61.6	60.7	60.7	60.7	59.7	59.7	57.0	57.0
100°	53.3	53.3	52.4	52.4	52.4	52.4	52.4	51.5	50.6	48.7	48.7
102.5°	48.7	48.7	48.7	48.7	47.8	47.8	46.9	46.0	45.0	43.2	43.2
105°	46.9	46.9	46.9	46.0	46.0	46.0	45.0	43.2	42.3	40.4	39.5
107.5°	46.9	46.9	46.9	46.0	46.0	45.0	44.1	42.3	41.4	39.5	38.6
110°	48.7	48.7	47.8	47.8	46.9	46.0	45.0	43.2	41.4	39.5	38.6

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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	51.5	51.5	51.5	50.6	49.6	48.7	46.9	45.0	42.3	41.4	40.4
115°	57.0	57.0	57.0	55.1	54.2	52.4	49.6	47.8	46.0	44.1	43.2
117.5°	65.3	65.3	64.3	62.5	60.7	58.8	55.1	53.3	50.6	48.7	46.9
120°	76.3	76.3	75.4	72.6	70.8	67.1	63.4	59.7	57.0	55.1	53.3
122.5°	90.1	90.1	90.1	85.5	82.7	78.1	73.5	69.9	65.3	63.4	60.7
125°	107.5	106.6	106.6	100.2	98.3	92.8	86.4	81.8	76.3	72.6	69.9
127.5°	127.8	126.8	125.0	118.6	114.9	108.5	101.1	95.6	88.2	83.6	80.0
130°	146.1	146.1	144.3	137.9	133.3	126.8	116.7	110.3	100.2	93.8	90.1
132.5°	162.7	162.7	160.8	155.3	149.8	141.5	131.4	122.2	110.3	102.9	99.3
135°	175.6	174.6	172.8	168.2	162.7	153.5	142.5	132.4	119.5	110.3	106.6
137.5°	180.1	180.1	177.4	173.7	168.2	159.0	148.9	137.9	125.9	115.8	112.1
140°	176.5	176.5	174.6	172.8	167.3	159.0	149.8	138.8	127.8	117.6	112.1
142.5°	168.2	168.2	166.4	166.4	160.8	153.5	145.2	135.1	125.0	114.0	109.4
145°	150.7	151.7	149.8	151.7	147.1	141.5	135.1	125.9	117.6	107.5	102.0
147.5°	129.6	129.6	128.7	132.4	127.8	124.1	119.5	111.2	105.7	95.6	91.0
150°	104.8	105.7	104.8	107.5	103.9	101.1	99.3	93.8	89.2	80.9	77.2
152.5°	80.9	80.9	80.0	82.7	79.0	78.1	77.2	73.5	71.7	64.3	61.6
155°	59.7	59.7	59.7	61.6	57.9	57.0	57.9	55.1	54.2	48.7	46.9
157.5°	42.3	42.3	41.4	43.2	41.4	40.4	41.4	39.5	38.6	34.9	33.1
160°	27.6	27.6	26.7	28.5	26.7	26.7	27.6	25.7	25.7	23.9	22.1
162.5°	14.7	14.7	14.7	16.5	15.6	15.6	16.5	15.6	15.6	14.7	13.8
165°	5.5	5.5	5.5	6.4	6.4	6.4	7.4	6.4	7.4	6.4	6.4
167.5°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	177°	180°
0°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	1466.0	1483.5	1503.7	1517.5	1535.9	1553.3	1566.2	1582.7	1589.2	1580.9	1580.9
5°	1483.5	1505.5	1530.4	1549.7	1573.6	1601.1	1632.4	1660.0	1674.7	1672.8	1672.8
7.5°	1447.6	1461.4	1481.6	1502.8	1531.3	1562.5	1610.3	1650.8	1680.2	1685.7	1684.8
10°	1373.2	1373.2	1385.1	1400.8	1421.9	1454.1	1502.8	1543.2	1574.5	1581.8	1581.8
12.5°	1311.6	1309.8	1313.4	1323.5	1341.0	1366.7	1402.6	1434.8	1460.5	1466.0	1466.9
15°	1292.3	1273.9	1270.2	1274.8	1284.0	1296.9	1327.2	1348.4	1366.7	1369.5	1367.7
17.5°	1281.3	1247.3	1199.5	1188.4	1192.1	1202.2	1220.6	1226.1	1216.9	1222.4	1216.0
20°	1134.2	1131.5	1111.2	1098.4	1082.7	1047.8	1058.8	1067.1	1079.1	1081.8	1079.1
22.5°	1029.4	994.5	941.2	955.0	923.7	927.4	947.6	932.9	926.5	930.2	924.6
25°	920.1	910.9	850.2	820.8	808.8	799.6	810.7	809.8	831.8	841.0	834.6
27.5°	862.1	786.8	743.6	705.0	711.4	698.5	700.4	712.3	716.9	719.7	714.2
30°	645.2	660.9	647.1	627.8	614.0	601.1	598.4	585.5	568.9	570.8	557.9
32.5°	614.0	598.4	578.1	562.5	549.6	536.8	524.8	510.1	502.8	503.7	496.3
35°	586.4	569.9	547.8	530.3	515.6	499.1	483.5	466.0	459.6	461.4	454.1
37.5°	534.0	521.1	500.9	484.4	469.7	449.5	436.6	421.9	415.4	416.4	409.9
40°	486.2	472.4	455.0	438.4	423.7	409.0	397.1	385.1	377.8	379.6	374.1
42.5°	451.3	436.6	420.0	404.4	390.6	375.9	364.9	352.9	347.4	349.3	343.8
45°	414.5	403.5	387.0	371.3	358.5	343.8	333.6	322.6	317.1	318.0	313.4
47.5°	397.1	377.8	360.3	344.7	331.8	317.1	307.0	296.9	294.1	292.3	289.5
50°	381.4	360.3	341.0	325.4	310.7	296.9	285.8	277.6	272.1	272.1	270.2
52.5°	363.1	341.9	320.8	304.2	290.4	277.6	268.4	260.1	257.4	255.5	253.7
55°	356.6	332.7	308.8	290.4	275.7	263.8	255.5	248.2	244.5	243.6	241.7
57.5°	355.7	324.5	296.0	275.7	261.0	249.1	241.7	235.3	231.6	230.7	228.9
60°	338.2	308.8	282.2	263.8	249.1	236.2	228.9	222.4	219.7	216.0	213.2
62.5°	304.2	282.2	261.0	246.3	233.5	220.6	210.5	203.1	200.4	198.5	196.7
65°	286.8	266.5	246.3	230.7	216.9	205.0	196.7	189.3	186.6	184.7	182.9
67.5°	268.4	249.1	228.9	213.2	201.3	189.3	181.1	174.6	171.9	170.0	168.2
70°	248.2	228.9	206.8	193.9	182.9	171.9	164.5	159.0	156.3	155.3	152.6
72.5°	226.1	205.0	186.6	174.6	164.5	154.4	148.9	142.5	140.6	138.8	137.0
75°	203.1	184.7	167.3	156.3	147.1	138.8	133.3	127.8	125.0	124.1	122.2
77.5°	182.9	165.4	148.9	139.7	131.4	124.1	118.6	114.9	112.1	111.2	110.3
80°	162.7	146.1	133.3	124.1	115.8	109.4	105.7	102.0	100.2	99.3	98.3
82.5°	140.6	127.8	116.7	108.5	102.0	96.5	92.8	90.1	89.2	87.3	87.3
85°	122.2	110.3	100.2	94.7	88.2	83.6	80.9	79.0	78.1	77.2	76.3
87.5°	103.9	94.7	86.4	80.9	76.3	72.6	69.9	68.9	68.0	67.1	66.2
90°	87.3	80.0	73.5	68.9	65.3	61.6	59.7	58.8	58.8	57.9	57.9
92.5°	74.4	68.9	63.4	60.7	57.0	54.2	53.3	52.4	51.5	51.5	51.5
95°	64.3	59.7	56.1	53.3	50.6	48.7	46.9	46.9	46.0	46.0	46.0
97.5°	55.1	52.4	48.7	46.9	45.0	43.2	42.3	41.4	41.4	40.4	40.4
100°	46.9	45.0	42.3	41.4	39.5	37.7	36.8	36.8	36.8	35.8	35.8
102.5°	41.4	39.5	37.7	35.8	34.9	33.1	33.1	32.2	32.2	32.2	32.2
105°	38.6	36.8	34.9	33.1	32.2	31.3	30.3	29.4	29.4	29.4	29.4
107.5°	37.7	35.8	34.0	32.2	30.3	29.4	28.5	26.7	27.6	27.6	27.6
110°	37.7	35.8	34.0	32.2	30.3	29.4	28.5	25.7	26.7	26.7	26.7

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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	177°	180°
112.5°	39.5	36.8	34.9	33.1	31.3	30.3	28.5	24.8	25.7	25.7	25.7
115°	42.3	39.5	36.8	34.9	33.1	31.3	29.4	23.9	24.8	24.8	24.8
117.5°	46.0	43.2	40.4	37.7	34.9	33.1	30.3	24.8	24.8	24.8	24.8
120°	52.4	47.8	44.1	41.4	38.6	35.8	32.2	24.8	25.7	25.7	25.7
122.5°	59.7	54.2	49.6	45.0	42.3	38.6	34.0	26.7	26.7	26.7	27.6
125°	68.0	61.6	56.1	50.6	46.9	41.4	35.8	27.6	27.6	28.5	28.5
127.5°	77.2	69.9	62.5	56.1	51.5	44.1	37.7	29.4	28.5	28.5	28.5
130°	86.4	77.2	69.9	61.6	55.1	47.8	39.5	30.3	27.6	28.5	29.4
132.5°	94.7	84.6	76.3	67.1	59.7	50.6	41.4	31.3	28.5	29.4	29.4
135°	102.0	91.0	80.9	70.8	62.5	53.3	42.3	32.2	29.4	29.4	30.3
137.5°	106.6	94.7	83.6	73.5	63.4	54.2	43.2	32.2	29.4	29.4	29.4
140°	107.5	95.6	83.6	72.6	62.5	53.3	42.3	32.2	28.5	29.4	28.5
142.5°	103.9	91.9	80.0	68.9	59.7	50.6	40.4	30.3	26.7	27.6	27.6
145°	96.5	85.5	74.4	63.4	55.1	46.0	36.8	27.6	23.9	24.8	23.9
147.5°	85.5	76.3	65.3	56.1	48.7	40.4	32.2	23.9	20.2	21.1	20.2
150°	72.6	65.3	55.1	46.9	40.4	34.0	26.7	19.3	16.5	16.5	15.6
152.5°	57.0	52.4	45.0	36.8	32.2	26.7	21.1	15.6	11.9	12.9	11.9
155°	44.1	39.5	34.0	28.5	24.8	20.2	15.6	11.0	8.3	9.2	8.3
157.5°	31.3	28.5	24.8	20.2	17.5	14.7	11.0	8.3	5.5	5.5	5.5
160°	21.1	19.3	16.5	13.8	11.9	10.1	7.4	5.5	2.8	2.8	2.8
162.5°	12.9	11.9	10.1	8.3	7.4	6.4	4.6	2.8	1.8	1.8	1.8
165°	6.4	5.5	4.6	3.7	3.7	2.8	2.8	1.8	0.9	0.9	0.9
167.5°	0.0	0.0	0.0	0.0	0.0	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)