

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: P691030

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

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)  
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  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2982 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B2 - U3 - G1

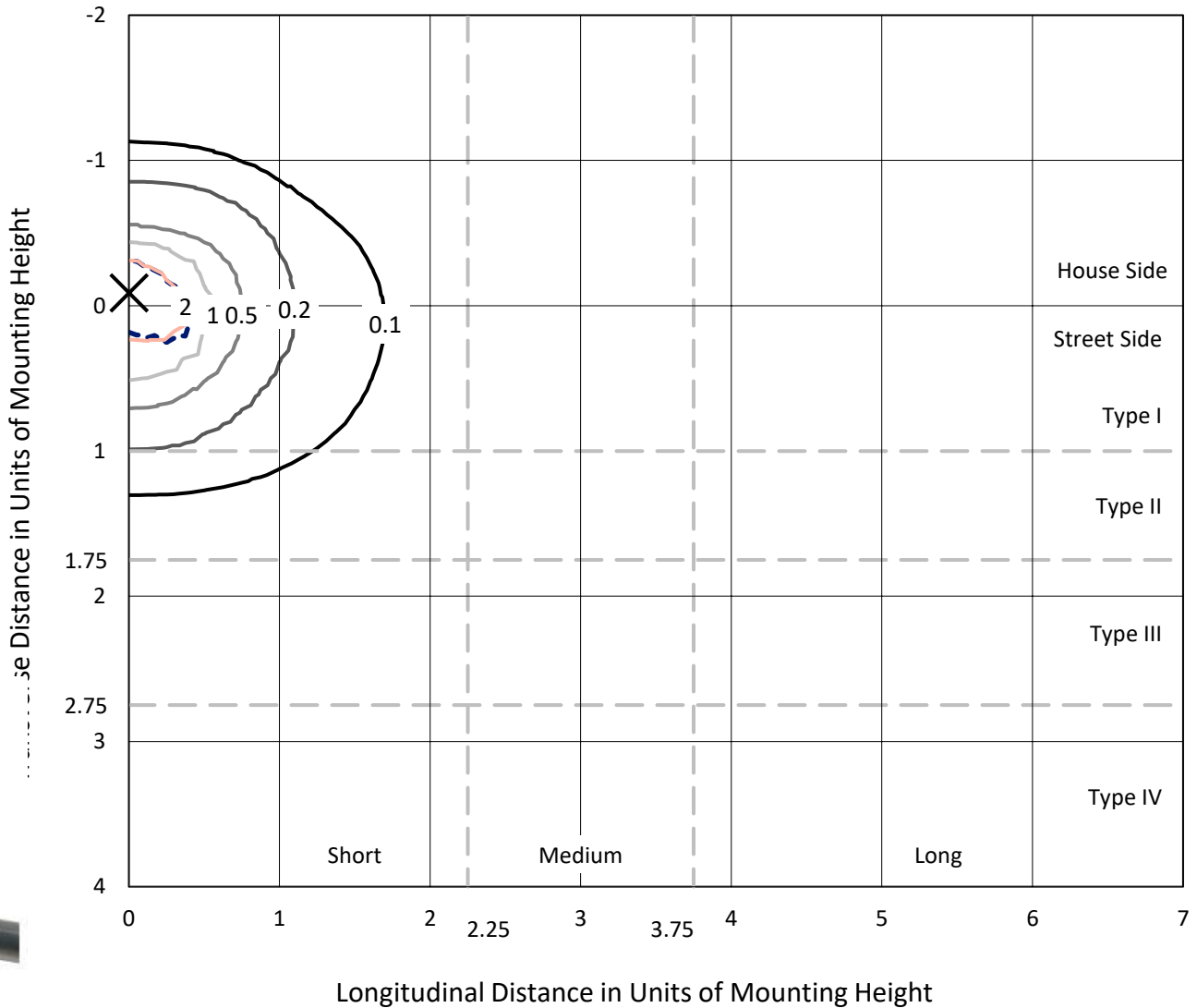
Input Watts (W): 23.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

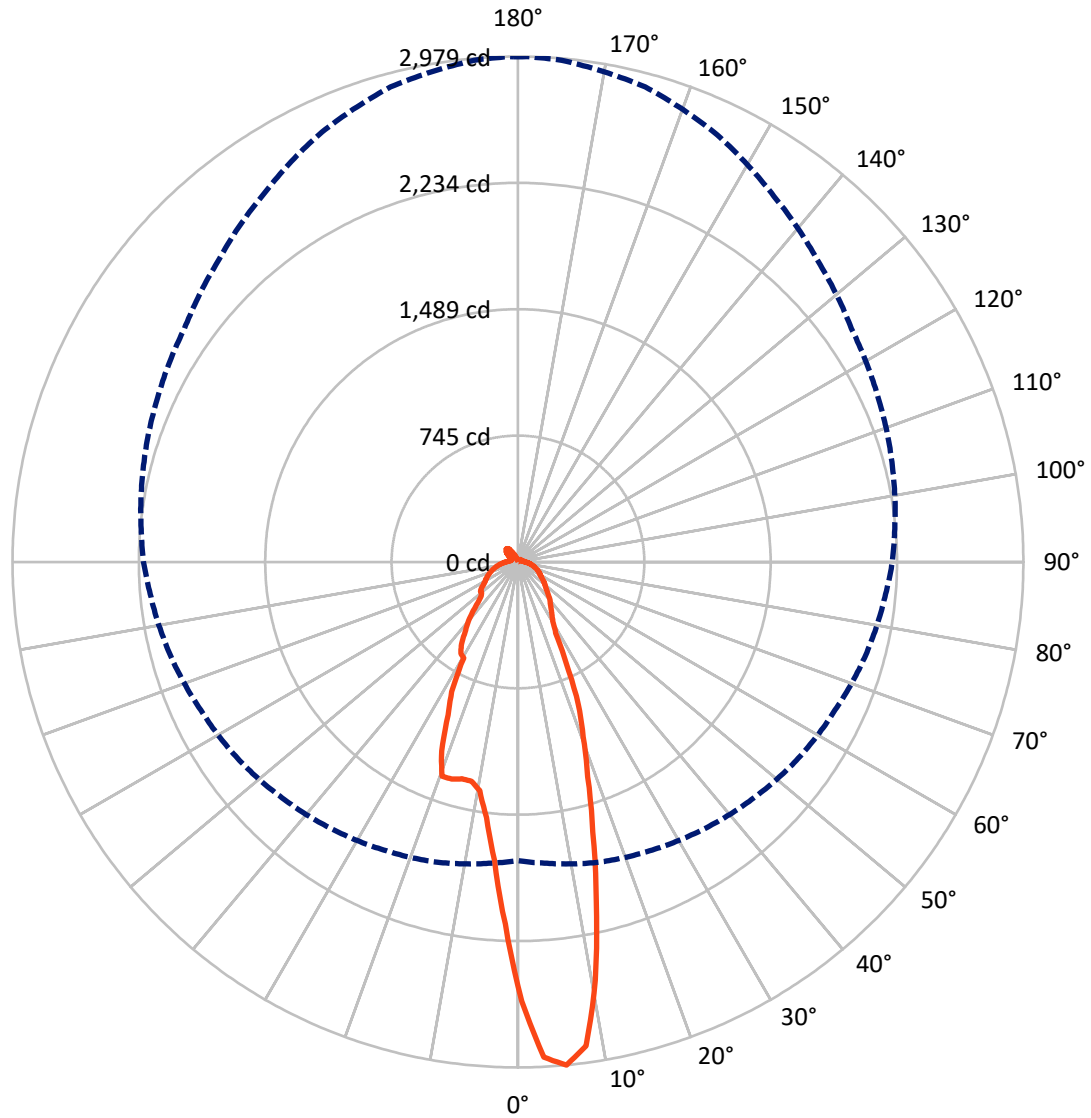
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 179-Deg Lateral      - - - Horizontal Cone Through 5-Deg Vertical

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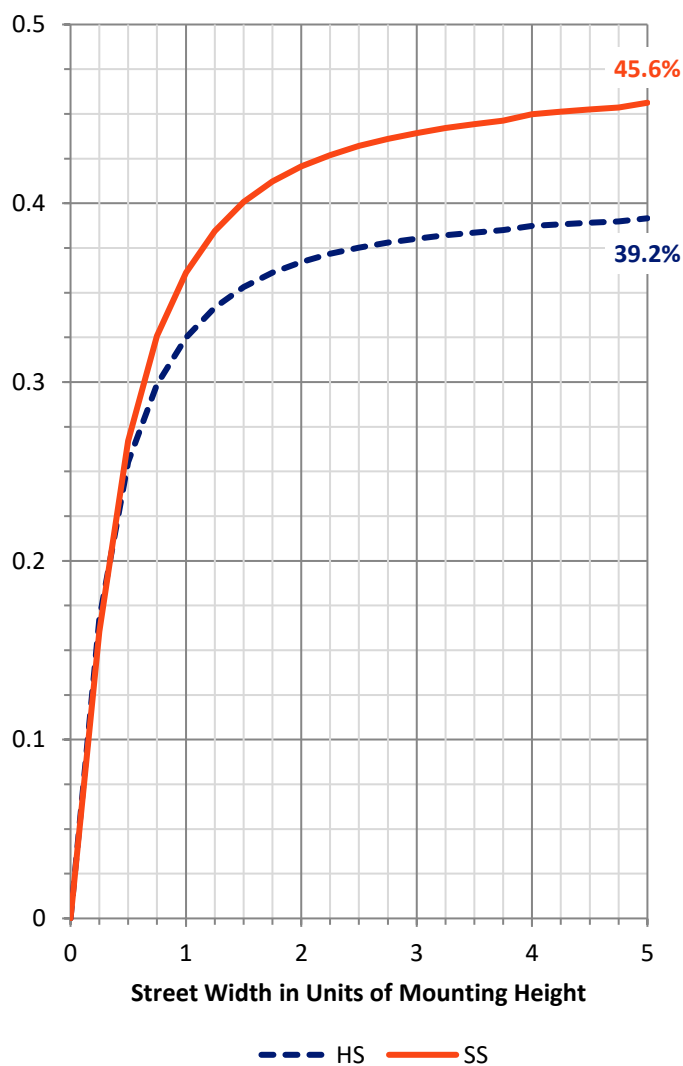
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1200.0	145.9	1345.9
	% Fixture	40.2	4.9	45.1
<b>Street Side</b>	Lumens	1392.8	243.3	1636.1
	% Fixture	46.7	8.2	54.9
<b>Total</b>	Lumens	2592.8	389.2	2982.0
	% Fixture	86.9	13.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.3	6.8
10°-20°	431.6	14.5
20°-30°	468.9	15.7
30°-40°	347.1	11.6
40°-50°	290.7	9.7
50°-60°	292.2	9.8
60°-70°	248.8	8.3
70°-80°	185.8	6.2
80°-90°	125.5	4.2
90°-100°	75.0	2.5
100°-110°	43.3	1.5
110°-120°	39.9	1.3
120°-130°	57.7	1.9
130°-140°	78.9	2.6
140°-150°	65.0	2.2
150°-160°	26.2	0.9
160°-170°	3.2	0.1
170°-180°	0.0	0.0
0°-90°	2592.8	86.9
0°-180°	2982.0	100.0

**Coefficient of Utilization**



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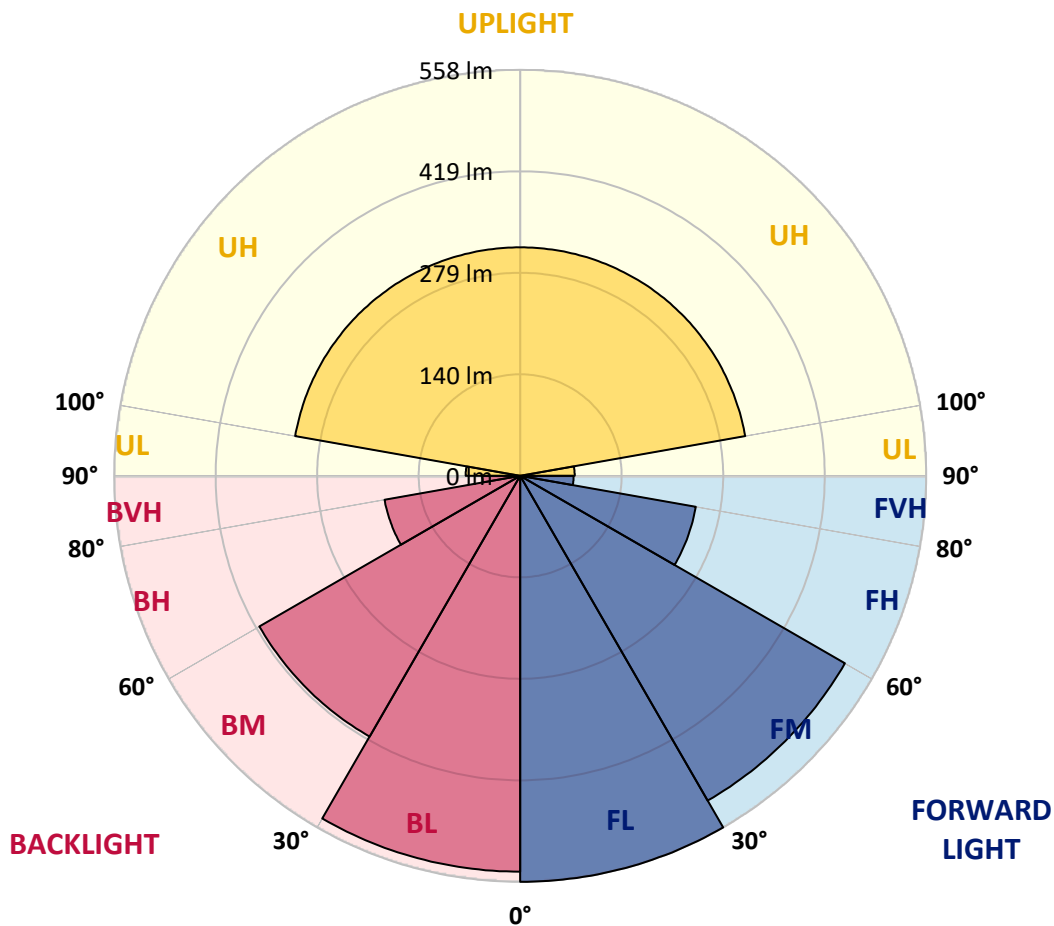
CATALOG NUMBER: CRTK2-C013-5TLD-U-T2-7050-RMARROA5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.4	18.7			
FM (30°-60°)	515.7	17.3			
FH (60°-80°)	245.3	8.2			G0/660
FVH (80°-90°)	73.5	2.5			G1/100
BL (0°-30°)	544.4	18.3	B2/1000		
BM (30°-60°)	414.2	13.9	B1/1000		
BH (60°-80°)	189.3	6.3	B1/500		G1/500
BVH (80°-90°)	52.0	1.7			G1/100
UL (90°-100°)	75.0	2.5		U3/500	
UH (100°-180°)	314.2	10.5		U3/500	

**BUG Rating: B2-U3-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6
2.5°	2133.2	2145.2	2171.5	2184.7	2197.8	2214.6	2239.7	2258.8	2303.0	2343.7	2360.4
5°	1760.2	1781.7	1831.9	1872.6	1918.0	1965.8	2017.3	2062.7	2121.3	2175.1	2206.2
7.5°	1512.6	1530.6	1590.4	1669.3	1749.4	1816.4	1869.0	1903.7	1930.0	1951.5	1974.2
10°	1362.0	1377.5	1437.3	1507.9	1576.0	1638.2	1682.4	1715.9	1725.5	1747.0	1757.8
12.5°	1318.9	1326.1	1368.0	1417.0	1458.8	1519.8	1572.4	1608.3	1623.9	1643.0	1649.0
15°	1320.1	1320.1	1344.0	1375.1	1413.4	1460.0	1518.6	1561.7	1584.4	1595.2	1594.0
17.5°	1338.1	1336.9	1347.6	1372.7	1405.0	1451.7	1511.4	1555.7	1582.0	1585.6	1582.0
20°	1338.1	1339.3	1342.8	1371.5	1402.6	1444.5	1505.5	1542.5	1562.9	1552.1	1540.1
22.5°	1201.7	1200.6	1231.6	1292.6	1376.3	1463.6	1518.6	1564.1	1568.8	1529.4	1497.1
25°	992.5	984.1	1002.1	1029.6	1085.8	1187.4	1302.2	1474.4	1577.2	1554.5	1505.5
27.5°	861.0	850.2	865.7	853.8	847.8	840.6	833.4	813.1	826.3	838.2	890.8
30°	649.3	651.7	655.3	662.5	676.8	705.5	735.4	753.3	768.9	800.0	796.4
32.5°	635.0	633.8	635.0	642.1	649.3	667.2	685.2	694.7	706.7	736.6	729.4
35°	587.1	584.7	593.1	596.7	595.5	600.3	618.2	629.0	639.7	658.9	651.7
37.5°	516.6	519.0	536.9	546.5	550.1	560.8	575.2	584.7	597.9	612.2	608.6
40°	464.0	462.8	481.9	495.0	503.4	520.2	541.7	556.0	577.6	589.5	581.1
42.5°	399.4	404.2	418.5	431.7	434.1	442.4	461.6	478.3	504.6	522.6	517.8
45°	336.0	339.6	351.6	362.3	370.7	381.4	395.8	410.1	431.7	446.0	444.8
47.5°	296.6	300.1	309.7	322.9	334.8	350.4	364.7	379.1	399.4	410.1	406.6
50°	281.0	283.4	294.2	308.5	326.4	345.6	364.7	380.3	399.4	406.6	400.6
52.5°	279.8	279.8	293.0	314.5	339.6	365.9	391.0	412.5	430.5	430.5	418.5
55°	263.1	265.5	282.2	310.9	349.2	392.2	436.5	477.1	501.0	496.2	473.5
57.5°	239.2	240.3	258.3	285.8	326.4	379.1	438.8	490.3	519.0	524.9	501.0
60°	224.8	226.0	238.0	264.3	298.9	340.8	395.8	436.5	465.2	483.1	464.0
62.5°	212.8	212.8	224.8	242.7	271.4	302.5	333.6	361.1	383.8	397.0	386.2
65°	199.7	199.7	208.1	224.8	247.5	277.4	301.3	321.7	342.0	351.6	342.0
67.5°	186.5	186.5	194.9	210.5	230.8	255.9	279.8	298.9	319.3	326.4	319.3
70°	173.4	173.4	181.8	194.9	214.0	238.0	255.9	276.2	295.4	300.1	294.2
72.5°	160.2	160.2	168.6	180.6	197.3	220.0	236.8	252.3	270.2	273.8	267.9
75°	148.3	148.3	154.3	166.2	181.8	202.1	218.8	233.2	247.5	247.5	242.7
77.5°	135.1	136.3	141.1	151.9	166.2	185.3	200.9	214.0	226.0	226.0	220.0
80°	122.0	123.2	127.9	137.5	150.7	168.6	183.0	194.9	205.7	205.7	199.7
82.5°	108.8	110.0	114.8	123.2	135.1	151.9	166.2	178.2	187.7	186.5	180.6
85°	96.9	98.1	101.6	108.8	119.6	136.3	149.5	160.2	168.6	167.4	162.6
87.5°	84.9	86.1	89.7	95.7	105.2	120.8	133.9	143.5	150.7	149.5	144.7
90°	74.1	74.1	77.7	83.7	92.1	105.2	117.2	125.6	132.7	130.3	125.6
92.5°	64.6	65.8	68.2	72.9	80.1	92.1	102.8	110.0	117.2	116.0	111.2
95°	57.4	57.4	59.8	63.4	69.4	78.9	89.7	95.7	100.4	100.4	96.9
97.5°	50.2	51.4	52.6	55.0	59.8	67.0	75.3	81.3	84.9	84.9	82.5
100°	45.4	46.6	46.6	49.0	51.4	56.2	62.2	67.0	70.6	70.6	69.4
102.5°	43.0	43.0	43.0	44.2	45.4	47.8	51.4	53.8	56.2	57.4	56.2
105°	40.7	40.7	40.7	41.9	41.9	44.2	45.4	47.8	49.0	49.0	47.8
107.5°	39.5	39.5	40.7	40.7	40.7	41.9	44.2	44.2	45.4	44.2	44.2
110°	40.7	40.7	40.7	40.7	40.7	41.9	43.0	43.0	43.0	43.0	41.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	41.9	41.9	41.9	41.9	43.0	43.0	43.0	44.2	44.2	43.0	43.0
115°	45.4	45.4	45.4	45.4	45.4	46.6	46.6	46.6	46.6	45.4	44.2
117.5°	49.0	49.0	49.0	50.2	50.2	51.4	50.2	51.4	50.2	49.0	49.0
120°	55.0	55.0	56.2	57.4	58.6	58.6	57.4	58.6	58.6	56.2	55.0
122.5°	62.2	62.2	63.4	67.0	68.2	69.4	68.2	68.2	68.2	65.8	64.6
125°	69.4	70.6	72.9	77.7	81.3	83.7	81.3	82.5	82.5	78.9	77.7
127.5°	77.7	78.9	83.7	90.9	96.9	99.2	98.1	99.2	100.4	94.5	92.1
130°	86.1	86.1	93.3	104.0	112.4	116.0	117.2	118.4	119.6	113.6	108.8
132.5°	93.3	93.3	102.8	116.0	126.8	132.7	135.1	137.5	139.9	131.5	125.6
135°	98.1	99.2	111.2	126.8	139.9	148.3	151.9	154.3	157.8	148.3	141.1
137.5°	101.6	104.0	116.0	132.7	147.1	159.0	166.2	169.8	172.2	162.6	153.1
140°	102.8	104.0	117.2	133.9	148.3	161.4	172.2	178.2	179.4	169.8	160.2
142.5°	99.2	101.6	113.6	130.3	144.7	159.0	171.0	177.0	178.2	169.8	160.2
145°	94.5	95.7	106.4	122.0	136.3	151.9	165.0	171.0	171.0	163.8	154.3
147.5°	86.1	87.3	96.9	110.0	124.4	139.9	153.1	159.0	160.2	153.1	144.7
150°	74.1	75.3	82.5	93.3	107.6	123.2	135.1	142.3	142.3	135.1	129.1
152.5°	59.8	61.0	67.0	75.3	87.3	101.6	112.4	119.6	119.6	114.8	107.6
155°	46.6	46.6	51.4	58.6	67.0	77.7	86.1	92.1	93.3	88.5	83.7
157.5°	33.5	33.5	37.1	43.0	50.2	58.6	64.6	69.4	69.4	65.8	63.4
160°	22.7	22.7	25.1	28.7	33.5	39.5	44.2	49.0	49.0	46.6	44.2
162.5°	12.0	12.0	14.3	16.7	20.3	25.1	27.5	31.1	31.1	29.9	28.7
165°	3.6	3.6	4.8	6.0	8.4	10.8	12.0	14.3	15.5	14.3	13.2
167.5°	0.0	0.0	1.2	1.2	1.2	1.2	2.4	3.6	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°	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6
2.5°	2378.4	2453.7	2521.9	2592.4	2679.7	2756.2	2838.8	2897.3	2922.5	2922.5	2932.0
5°	2228.9	2281.5	2336.5	2398.7	2502.7	2630.7	2777.8	2898.5	2967.9	2978.7	2977.5
7.5°	1981.4	2017.3	2073.5	2142.8	2238.5	2353.3	2542.2	2731.1	2856.7	2879.4	2871.0
10°	1763.8	1797.2	1830.7	1857.0	1925.2	2016.1	2154.8	2338.9	2483.6	2506.3	2488.4
12.5°	1652.6	1663.3	1662.1	1677.7	1705.2	1750.6	1821.2	1927.6	2026.8	2048.3	2032.8
15°	1594.0	1578.4	1554.5	1527.0	1524.6	1531.8	1549.7	1592.8	1634.6	1652.6	1640.6
17.5°	1570.0	1533.0	1483.9	1430.1	1394.3	1360.8	1338.1	1323.7	1329.7	1330.9	1321.3
20°	1513.8	1469.6	1390.7	1314.1	1256.8	1198.2	1147.9	1110.9	1104.9	1098.9	1091.7
22.5°	1450.5	1375.1	1280.7	1187.4	1102.5	1024.8	968.6	924.3	907.6	913.6	910.0
25°	1437.3	1311.8	1197.0	1046.3	938.7	851.4	746.2	674.4	642.1	660.1	648.1
27.5°	862.1	865.7	801.2	710.3	632.6	581.1	534.5	496.2	474.7	474.7	477.1
30°	780.8	746.2	703.1	646.9	578.8	527.3	475.9	434.1	411.3	405.4	407.8
32.5°	713.9	690.0	649.3	595.5	533.3	480.7	426.9	388.6	367.1	365.9	364.7
35°	642.1	617.0	583.5	536.9	483.1	434.1	387.4	353.9	334.8	336.0	336.0
37.5°	593.1	570.4	540.5	496.2	447.2	398.2	356.3	325.2	309.7	309.7	308.5
40°	568.0	541.7	509.4	468.7	423.3	371.9	332.4	302.5	289.4	289.4	288.2
42.5°	513.0	490.3	468.7	426.9	381.4	339.6	302.5	276.2	263.1	263.1	263.1
45°	435.3	422.1	405.4	376.7	339.6	304.9	273.8	248.7	238.0	236.8	236.8
47.5°	401.8	387.4	367.1	340.8	310.9	278.6	248.7	230.8	220.0	220.0	220.0
50°	392.2	375.5	348.0	316.9	285.8	257.1	230.8	214.0	204.5	204.5	205.7
52.5°	405.4	377.9	340.8	302.5	270.2	238.0	215.2	198.5	191.3	191.3	190.1
55°	450.8	399.4	345.6	298.9	258.3	223.6	199.7	181.8	173.4	173.4	173.4
57.5°	475.9	414.9	349.2	294.2	247.5	212.8	187.7	168.6	160.2	160.2	160.2
60°	447.2	397.0	334.8	284.6	239.2	203.3	177.0	159.0	150.7	149.5	148.3
62.5°	374.3	343.2	298.9	257.1	221.2	190.1	168.6	150.7	142.3	142.3	141.1
65°	333.6	307.3	269.0	233.2	203.3	177.0	156.6	142.3	133.9	132.7	132.7
67.5°	310.9	287.0	248.7	215.2	187.7	163.8	144.7	131.5	125.6	123.2	123.2
70°	285.8	259.5	226.0	196.1	171.0	149.5	133.9	120.8	114.8	113.6	112.4
72.5°	260.7	236.8	205.7	177.0	154.3	136.3	122.0	110.0	104.0	102.8	102.8
75°	234.4	211.7	181.8	157.8	138.7	122.0	108.8	99.2	94.5	93.3	92.1
77.5°	212.8	192.5	163.8	141.1	123.2	110.0	98.1	89.7	84.9	84.9	83.7
80°	192.5	173.4	145.9	125.6	110.0	96.9	87.3	80.1	76.5	75.3	75.3
82.5°	173.4	154.3	129.1	111.2	96.9	86.1	76.5	70.6	67.0	67.0	67.0
85°	155.4	137.5	114.8	98.1	84.9	75.3	67.0	61.0	58.6	57.4	58.6
87.5°	137.5	120.8	101.6	86.1	74.1	64.6	57.4	52.6	50.2	50.2	50.2
90°	120.8	105.2	87.3	72.9	63.4	55.0	49.0	44.2	43.0	41.9	41.9
92.5°	106.4	93.3	77.7	65.8	56.2	50.2	44.2	40.7	38.3	38.3	38.3
95°	93.3	81.3	69.4	58.6	51.4	45.4	40.7	37.1	35.9	35.9	35.9
97.5°	80.1	70.6	61.0	52.6	46.6	41.9	37.1	34.7	33.5	32.3	33.5
100°	67.0	59.8	52.6	46.6	41.9	37.1	33.5	31.1	29.9	29.9	29.9
102.5°	53.8	50.2	44.2	39.5	35.9	33.5	29.9	27.5	26.3	26.3	26.3
105°	46.6	43.0	39.5	35.9	33.5	29.9	27.5	25.1	23.9	23.9	23.9
107.5°	43.0	40.7	37.1	34.7	31.1	28.7	26.3	22.7	21.5	21.5	21.5
110°	41.9	39.5	37.1	33.5	31.1	28.7	26.3	21.5	20.3	20.3	20.3



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	41.9	39.5	37.1	34.7	32.3	28.7	26.3	21.5	19.1	19.1	19.1
115°	44.2	41.9	39.5	37.1	33.5	29.9	27.5	21.5	19.1	19.1	19.1
117.5°	47.8	45.4	43.0	39.5	35.9	32.3	27.5	21.5	20.3	20.3	20.3
120°	53.8	51.4	47.8	44.2	39.5	34.7	29.9	22.7	19.1	20.3	20.3
122.5°	62.2	59.8	55.0	49.0	44.2	38.3	31.1	23.9	17.9	20.3	20.3
125°	74.1	70.6	63.4	56.2	49.0	41.9	33.5	25.1	19.1	21.5	21.5
127.5°	87.3	82.5	72.9	63.4	55.0	45.4	35.9	26.3	20.3	21.5	21.5
130°	102.8	94.5	82.5	70.6	59.8	49.0	38.3	27.5	21.5	21.5	21.5
132.5°	118.4	106.4	90.9	77.7	64.6	51.4	39.5	27.5	21.5	21.5	21.5
135°	131.5	117.2	99.2	82.5	67.0	52.6	40.7	27.5	21.5	21.5	21.5
137.5°	143.5	124.4	104.0	84.9	68.2	52.6	39.5	27.5	20.3	20.3	20.3
140°	149.5	127.9	106.4	84.9	67.0	51.4	37.1	25.1	19.1	19.1	19.1
142.5°	149.5	126.8	104.0	82.5	64.6	49.0	34.7	23.9	16.7	17.9	17.9
145°	144.7	122.0	99.2	77.7	59.8	44.2	31.1	20.3	15.5	15.5	15.5
147.5°	133.9	112.4	90.9	70.6	53.8	38.3	27.5	17.9	13.2	12.0	13.2
150°	119.6	99.2	78.9	61.0	45.4	32.3	22.7	14.3	10.8	10.8	10.8
152.5°	100.4	82.5	65.8	50.2	35.9	25.1	16.7	10.8	8.4	8.4	8.4
155°	78.9	64.6	51.4	38.3	27.5	19.1	13.2	8.4	6.0	6.0	6.0
157.5°	59.8	49.0	38.3	27.5	20.3	14.3	9.6	6.0	4.8	4.8	4.8
160°	41.9	33.5	26.3	19.1	13.2	9.6	6.0	3.6	2.4	2.4	2.4
162.5°	26.3	21.5	16.7	10.8	8.4	6.0	3.6	2.4	1.2	1.2	1.2
165°	12.0	10.8	7.2	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
167.5°	3.6	2.4	2.4	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)