

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: P691037

Luminaire Tested: **CRTK2-C013-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691037  
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-T2-8027-RMARROA5-HSS-CRTK2  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K LED WITH TYPE II OPTIC AND NEMA REFRACTOR WITH HOUSE  
SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

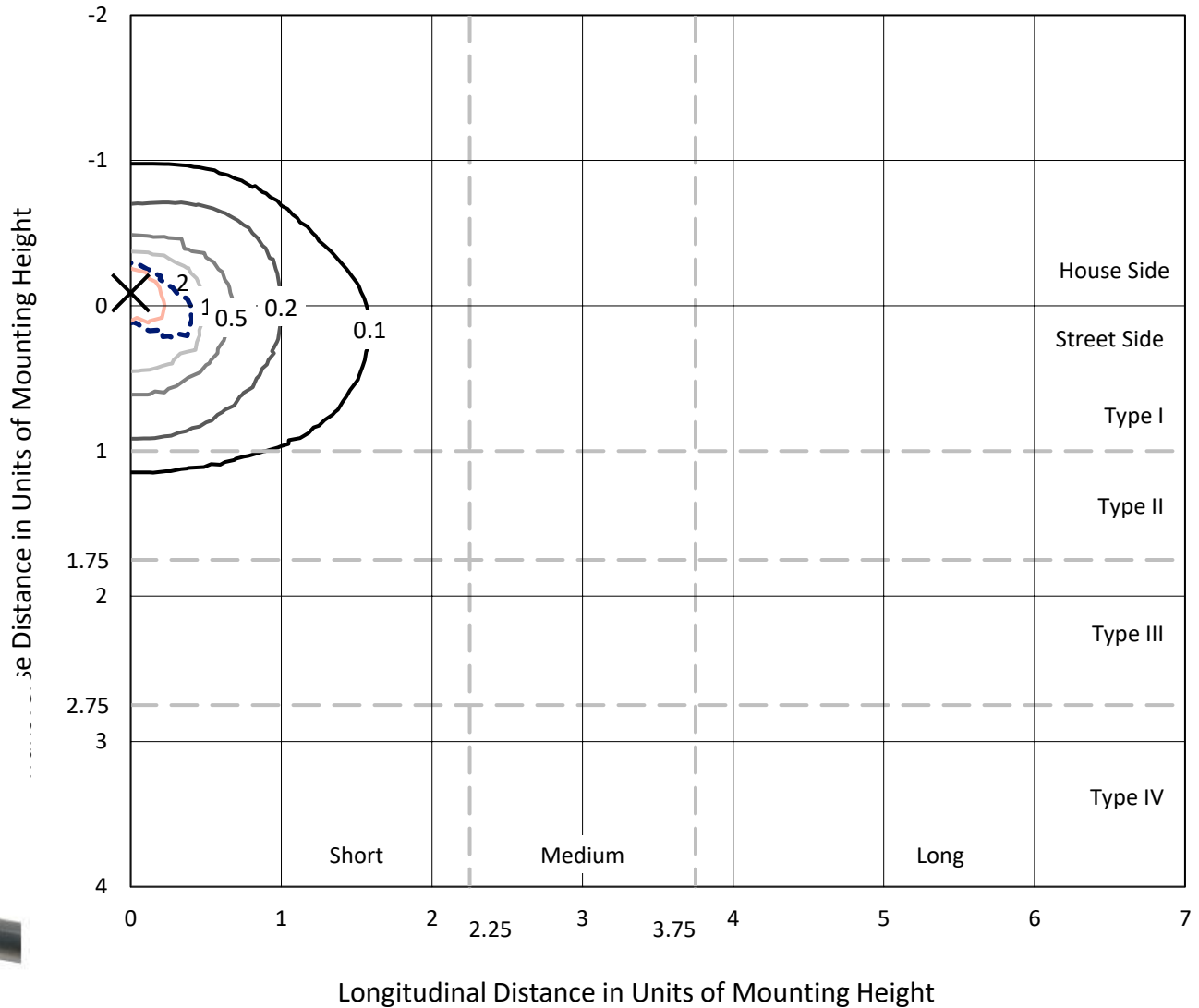
Lumens per Lamp: N/A  
Luminaire Lumens: 2331 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B1 - U3 - G1  
  
Input Watts (W): 23.2  
Input Voltage (V): NR  
Input Current (Ain): 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

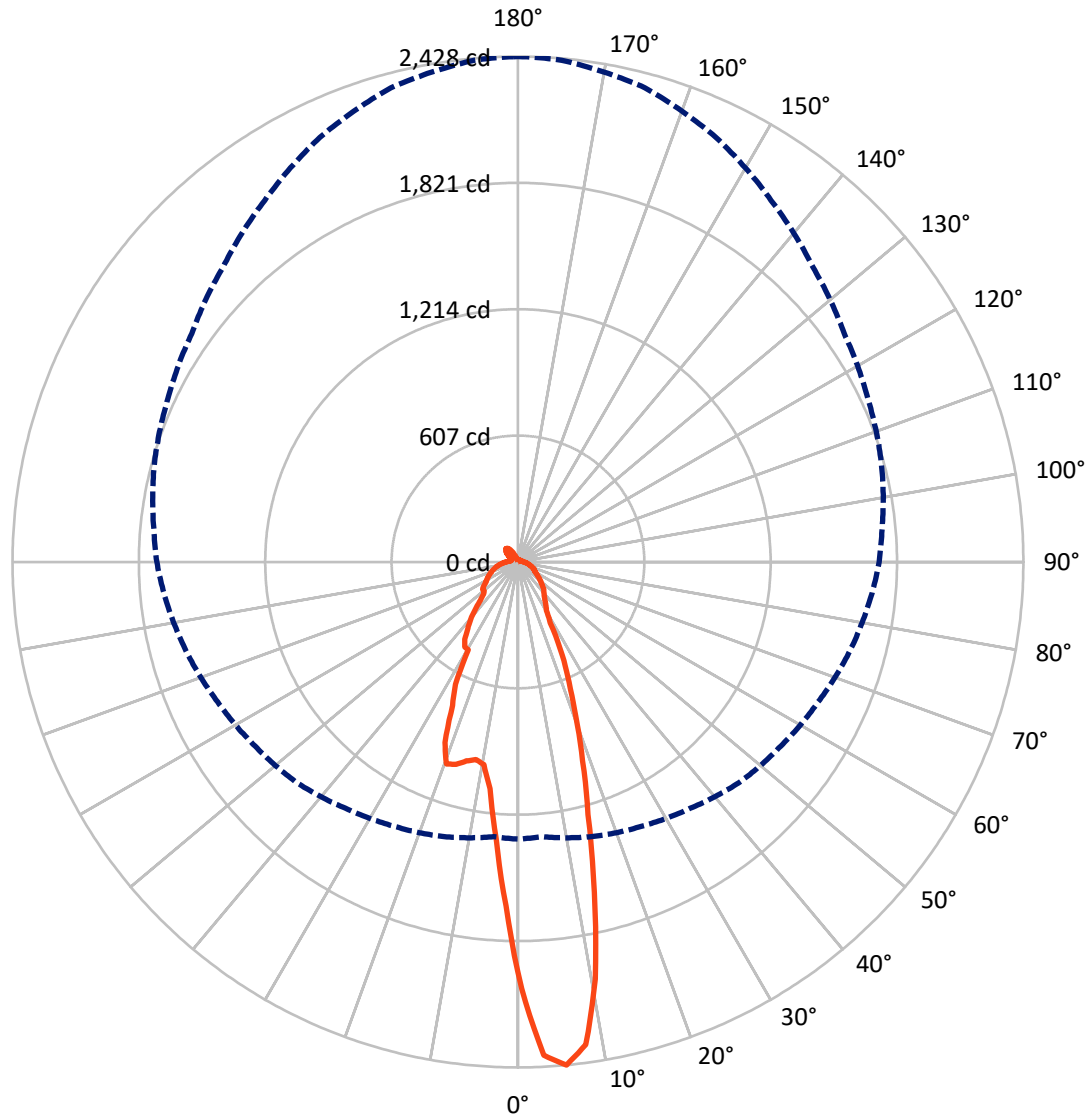
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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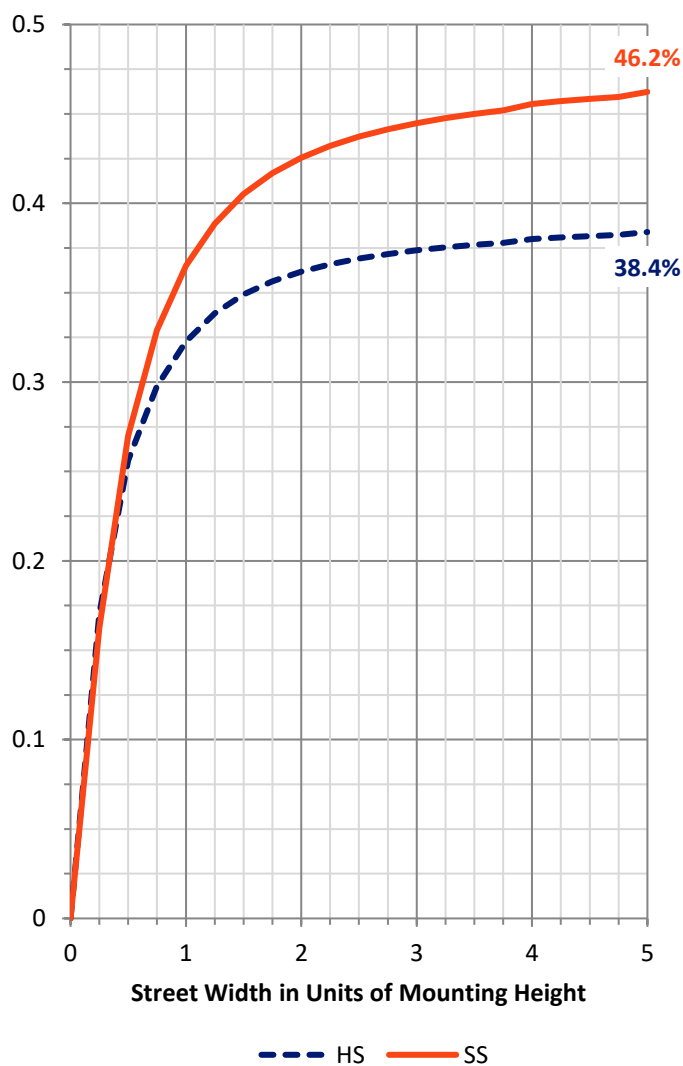
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	918.6	107.9	1026.5
	% Fixture	39.4	4.6	44.0
<b>Street Side</b>	Lumens	1104.0	200.5	1304.5
	% Fixture	47.4	8.6	56.0
<b>Total</b>	Lumens	2022.7	308.4	2331.0
	% Fixture	86.8	13.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.6	6.8
10°-20°	336.6	14.4
20°-30°	366.3	15.7
30°-40°	268.1	11.5
40°-50°	225.4	9.7
50°-60°	228.9	9.8
60°-70°	194.6	8.3
70°-80°	145.2	6.2
80°-90°	98.8	4.2
90°-100°	59.4	2.5
100°-110°	34.0	1.5
110°-120°	31.3	1.3
120°-130°	45.5	2.0
130°-140°	62.6	2.7
140°-150°	51.8	2.2
150°-160°	21.1	0.9
160°-170°	2.6	0.1
170°-180°	0.0	0.0
0°-90°	2022.7	86.8
0°-180°	2331.0	100.0

**Coefficient of Utilization**



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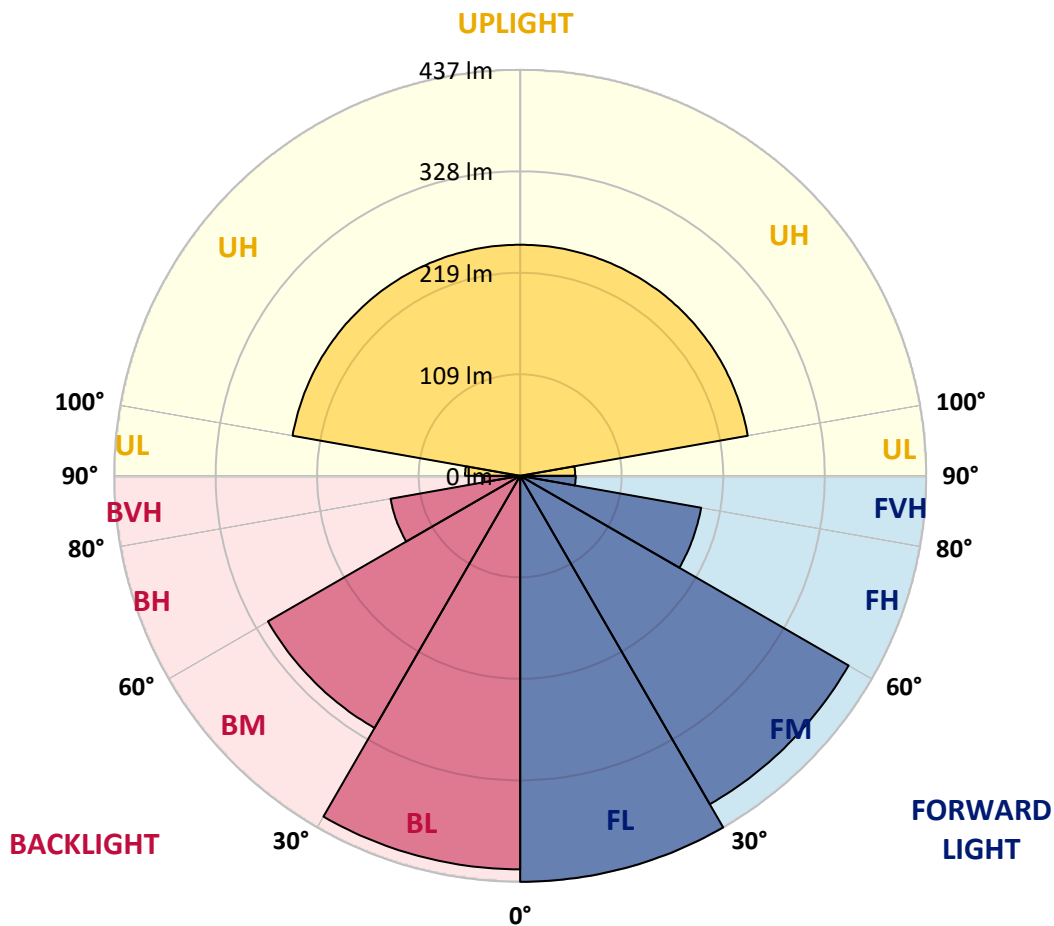
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.5	18.8			
FM (30°-60°)	408.7	17.5			
FH (60°-80°)	198.0	8.5			G0/660
FVH (80°-90°)	59.9	2.6			G1/100
BL (0°-30°)	424.0	18.2	B1/500		
BM (30°-60°)	313.8	13.5	B1/1000		
BH (60°-80°)	141.8	6.1	B1/500		G1/500
BVH (80°-90°)	39.0	1.7			G1/100
UL (90°-100°)	59.4	2.5		U3/500	
UH (100°-180°)	249.0	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°	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1
2.5°	1652.6	1649.5	1672.3	1677.5	1679.6	1703.4	1735.6	1757.4	1796.9	1835.3	1850.9
5°	1330.8	1324.6	1366.1	1401.4	1443.9	1500.0	1541.5	1591.3	1650.5	1707.6	1734.6
7.5°	1097.2	1105.5	1164.7	1237.4	1305.9	1372.3	1423.2	1465.7	1500.0	1536.3	1543.6
10°	987.2	994.5	1052.6	1122.1	1185.5	1252.9	1296.5	1332.9	1354.7	1381.6	1391.0
12.5°	969.5	974.7	1014.2	1063.0	1110.7	1172.0	1227.0	1267.5	1292.4	1314.2	1316.3
15°	987.2	989.3	1013.1	1045.3	1086.8	1137.7	1201.0	1246.7	1274.7	1284.1	1282.0
17.5°	1016.3	1016.3	1027.7	1054.7	1094.1	1142.9	1203.1	1249.8	1278.9	1283.0	1274.7
20°	1028.7	1030.8	1038.1	1068.2	1103.5	1148.1	1208.3	1247.7	1270.6	1259.2	1244.6
22.5°	935.3	931.1	950.9	1014.2	1093.1	1173.0	1230.1	1274.7	1287.2	1248.8	1217.6
25°	756.7	758.8	771.3	802.4	863.7	937.4	1064.0	1200.0	1294.5	1279.9	1233.2
27.5°	660.2	654.0	657.1	662.3	654.0	638.4	652.9	649.8	647.7	685.1	689.3
30°	484.8	485.8	491.0	500.3	520.1	549.1	580.3	597.9	613.5	642.6	638.4
32.5°	481.7	482.7	485.8	494.1	504.5	524.2	543.9	551.2	567.8	591.7	584.4
35°	450.5	447.4	455.7	463.0	466.1	474.4	490.0	500.3	510.7	527.3	523.2
37.5°	399.7	400.7	417.3	428.7	431.8	443.2	457.8	466.1	477.5	492.0	484.8
40°	356.1	357.1	376.8	389.3	396.5	412.1	433.9	444.3	463.0	474.4	466.1
42.5°	306.2	310.4	323.9	338.4	342.6	351.9	366.4	379.9	403.8	419.4	414.2
45°	255.4	257.4	266.8	281.3	287.5	297.9	311.4	323.9	342.6	355.0	354.0
47.5°	225.3	227.3	235.6	248.1	260.6	274.0	288.6	301.0	318.7	329.1	324.9
50°	212.8	214.9	225.3	239.8	255.4	273.0	290.7	304.1	320.8	327.0	321.8
52.5°	214.9	214.9	229.4	248.1	269.9	293.8	315.6	332.2	345.7	349.8	338.4
55°	203.5	206.6	222.1	248.1	281.3	318.7	356.1	391.3	411.1	406.9	385.1
57.5°	185.8	188.9	200.3	228.4	263.7	308.3	361.2	404.8	428.7	431.8	410.0
60°	175.4	177.5	187.9	209.7	240.8	277.2	324.9	360.2	387.2	395.5	379.9
62.5°	166.1	168.2	176.5	193.1	215.9	243.9	270.9	293.8	315.6	323.9	317.6
65°	155.7	156.7	165.1	179.6	198.3	222.1	245.0	261.6	279.2	284.4	277.2
67.5°	145.3	146.4	153.6	167.1	184.8	206.6	224.2	242.9	260.6	264.7	259.5
70°	136.0	137.0	143.3	155.7	171.3	192.0	208.6	221.1	238.8	242.9	236.7
72.5°	126.6	127.7	133.9	145.3	159.9	178.5	193.1	205.5	220.1	221.1	215.9
75°	117.3	118.3	123.5	133.9	146.4	165.1	178.5	188.9	201.4	201.4	195.2
77.5°	106.9	109.0	113.1	122.5	133.9	151.6	164.0	174.4	184.8	183.7	177.5
80°	97.6	98.6	102.8	111.1	121.5	138.1	150.5	158.8	168.2	167.1	161.9
82.5°	87.2	88.2	91.3	99.7	109.0	124.6	137.0	145.3	153.6	151.6	146.4
85°	76.8	77.9	82.0	88.2	97.6	112.1	123.5	131.8	138.1	136.0	131.8
87.5°	68.5	68.5	71.6	77.9	86.2	99.7	110.0	118.3	123.5	122.5	118.3
90°	59.2	60.2	62.3	67.5	74.7	86.2	96.5	103.8	109.0	106.9	102.8
92.5°	51.9	51.9	54.0	59.2	65.4	75.8	85.1	91.3	95.5	94.5	91.3
95°	44.6	45.7	46.7	50.9	56.1	64.4	72.7	78.9	83.0	82.0	79.9
97.5°	39.4	40.5	41.5	43.6	48.8	54.0	61.2	66.4	70.6	69.5	67.5
100°	36.3	36.3	36.3	38.4	41.5	45.7	50.9	55.0	57.1	58.1	56.1
102.5°	33.2	33.2	34.3	34.3	36.3	38.4	41.5	44.6	45.7	45.7	45.7
105°	32.2	32.2	33.2	33.2	34.3	35.3	37.4	38.4	39.4	39.4	38.4
107.5°	32.2	32.2	32.2	32.2	33.2	34.3	35.3	36.3	36.3	36.3	35.3
110°	33.2	33.2	33.2	33.2	33.2	34.3	34.3	35.3	35.3	34.3	34.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	34.3	34.3	34.3	34.3	34.3	35.3	35.3	35.3	35.3	34.3	34.3
115°	36.3	36.3	36.3	37.4	37.4	37.4	37.4	37.4	37.4	36.3	35.3
117.5°	40.5	40.5	40.5	40.5	41.5	41.5	41.5	41.5	41.5	39.4	39.4
120°	45.7	44.6	45.7	46.7	47.8	47.8	47.8	47.8	47.8	45.7	44.6
122.5°	50.9	50.9	51.9	54.0	56.1	57.1	56.1	56.1	56.1	52.9	51.9
125°	57.1	57.1	60.2	64.4	67.5	68.5	67.5	67.5	67.5	64.4	62.3
127.5°	64.4	64.4	68.5	74.7	79.9	83.0	82.0	82.0	82.0	76.8	73.7
130°	71.6	71.6	77.9	86.2	94.5	96.5	97.6	98.6	98.6	92.4	88.2
132.5°	76.8	77.9	85.1	96.5	106.9	110.0	113.1	114.2	114.2	106.9	100.7
135°	82.0	83.0	92.4	105.9	117.3	124.6	127.7	128.7	129.8	121.5	114.2
137.5°	85.1	86.2	96.5	112.1	123.5	132.9	140.1	142.2	142.2	132.9	123.5
140°	85.1	86.2	97.6	112.1	124.6	136.0	144.3	148.4	148.4	139.1	130.8
142.5°	83.0	85.1	95.5	110.0	122.5	133.9	143.3	147.4	147.4	139.1	130.8
145°	78.9	79.9	90.3	102.8	115.2	128.7	139.1	143.3	143.3	134.9	126.6
147.5°	71.6	72.7	81.0	92.4	104.8	118.3	128.7	133.9	132.9	125.6	118.3
150°	62.3	62.3	69.5	78.9	91.3	103.8	114.2	119.4	119.4	112.1	105.9
152.5°	50.9	50.9	56.1	63.3	73.7	86.2	94.5	99.7	99.7	94.5	89.3
155°	39.4	39.4	43.6	48.8	57.1	66.4	72.7	77.9	77.9	73.7	69.5
157.5°	28.0	28.0	32.2	36.3	42.6	49.8	55.0	58.1	59.2	55.0	52.9
160°	18.7	18.7	20.8	23.9	29.1	34.3	37.4	40.5	41.5	38.4	37.4
162.5°	10.4	10.4	11.4	14.5	17.6	20.8	23.9	26.0	26.0	24.9	23.9
165°	3.1	3.1	4.2	5.2	7.3	9.3	10.4	11.4	12.5	12.5	11.4
167.5°	0.0	0.0	1.0	1.0	1.0	1.0	2.1	2.1	3.1	3.1	3.1
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°	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1
2.5°	1883.0	1941.2	2004.5	2065.7	2140.5	2218.3	2289.9	2338.7	2364.7	2373.0	2373.0
5°	1755.3	1808.3	1855.0	1913.1	2003.4	2120.7	2250.5	2358.5	2419.7	2427.0	2428.0
7.5°	1556.0	1599.6	1648.4	1700.3	1780.3	1885.1	2056.4	2230.8	2330.4	2349.1	2341.8
10°	1393.1	1420.1	1449.1	1468.8	1524.9	1602.8	1719.0	1890.3	2012.8	2027.3	2037.7
12.5°	1317.3	1321.4	1313.1	1317.3	1336.0	1372.3	1429.4	1528.0	1607.9	1621.4	1628.7
15°	1278.9	1258.1	1224.9	1193.8	1177.2	1180.3	1192.7	1233.2	1246.7	1269.5	1259.2
17.5°	1261.2	1214.5	1162.6	1102.4	1065.0	1026.6	1005.9	998.6	993.4	994.5	1003.8
20°	1216.6	1163.7	1080.6	1001.7	941.5	888.6	843.9	811.8	794.1	785.8	792.0
22.5°	1169.9	1087.9	990.3	905.2	819.0	751.6	700.7	654.0	628.0	635.3	627.0
25°	1170.9	1048.4	932.2	820.1	739.1	649.8	568.9	520.1	477.5	485.8	497.2
27.5°	738.1	705.9	622.8	557.4	476.5	431.8	391.3	357.1	333.2	334.3	331.1
30°	625.9	592.7	551.2	499.3	438.1	386.2	339.4	300.0	277.2	270.9	269.9
32.5°	578.2	550.2	511.8	460.9	404.8	352.9	306.2	269.9	247.1	246.0	246.0
35°	514.9	488.9	456.7	413.1	365.4	317.6	274.0	242.9	224.2	224.2	223.2
37.5°	475.4	452.6	421.4	381.0	338.4	290.7	252.2	224.2	204.5	203.5	204.5
40°	454.7	430.8	400.7	362.3	319.7	274.0	237.7	208.6	194.1	193.1	192.0
42.5°	413.1	394.5	368.5	333.2	295.8	255.4	221.1	195.2	182.7	181.7	182.7
45°	350.9	337.4	319.7	293.8	262.6	228.4	198.3	178.5	166.1	166.1	166.1
47.5°	321.8	309.3	289.6	263.7	236.7	204.5	179.6	163.0	151.6	151.6	151.6
50°	314.5	299.0	273.0	243.9	214.9	186.8	164.0	147.4	139.1	138.1	139.1
52.5°	324.9	301.0	265.7	231.5	199.3	172.3	150.5	134.9	126.6	126.6	126.6
55°	362.3	318.7	272.0	228.4	190.0	159.9	138.1	122.5	114.2	113.1	114.2
57.5°	387.2	332.2	274.0	225.3	183.7	151.6	127.7	111.1	102.8	101.7	102.8
60°	365.4	320.8	264.7	217.0	178.5	145.3	120.4	103.8	95.5	94.5	94.5
62.5°	303.1	277.2	236.7	196.2	165.1	136.0	113.1	97.6	89.3	88.2	89.3
65°	268.9	246.0	210.7	178.5	151.6	126.6	106.9	93.4	85.1	85.1	85.1
67.5°	250.2	229.4	196.2	165.1	140.1	117.3	98.6	86.2	78.9	78.9	78.9
70°	228.4	207.6	177.5	149.5	126.6	106.9	90.3	77.9	71.6	70.6	71.6
72.5°	209.7	188.9	160.9	134.9	114.2	96.5	82.0	70.6	65.4	64.4	65.4
75°	188.9	169.2	142.2	119.4	101.7	86.2	73.7	63.3	59.2	58.1	58.1
77.5°	171.3	152.6	127.7	106.9	91.3	76.8	65.4	58.1	54.0	52.9	52.9
80°	155.7	138.1	114.2	95.5	81.0	68.5	59.2	51.9	47.8	47.8	47.8
82.5°	139.1	123.5	101.7	84.1	71.6	61.2	51.9	45.7	42.6	42.6	42.6
85°	125.6	110.0	89.3	74.7	62.3	52.9	45.7	40.5	37.4	37.4	37.4
87.5°	111.1	97.6	78.9	65.4	55.0	46.7	39.4	34.3	33.2	32.2	32.2
90°	96.5	84.1	67.5	56.1	46.7	39.4	33.2	29.1	28.0	27.0	27.0
92.5°	86.2	74.7	61.2	50.9	42.6	35.3	31.1	27.0	26.0	26.0	24.9
95°	74.7	65.4	54.0	45.7	38.4	33.2	29.1	26.0	24.9	24.9	23.9
97.5°	64.4	56.1	47.8	41.5	35.3	31.1	27.0	24.9	22.8	22.8	22.8
100°	54.0	47.8	41.5	35.3	32.2	28.0	24.9	22.8	21.8	20.8	20.8
102.5°	43.6	39.4	34.3	31.1	27.0	23.9	21.8	19.7	18.7	18.7	18.7
105°	37.4	34.3	31.1	28.0	24.9	21.8	19.7	17.6	16.6	16.6	16.6
107.5°	34.3	32.2	29.1	26.0	23.9	20.8	18.7	15.6	14.5	15.6	15.6
110°	33.2	31.1	28.0	26.0	22.8	20.8	18.7	14.5	13.5	14.5	14.5



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	33.2	31.1	29.1	26.0	23.9	20.8	18.7	14.5	13.5	13.5	13.5
115°	34.3	33.2	30.1	28.0	24.9	21.8	18.7	14.5	13.5	13.5	13.5
117.5°	38.4	36.3	33.2	30.1	27.0	22.8	19.7	14.5	13.5	13.5	13.5
120°	42.6	40.5	37.4	33.2	29.1	24.9	20.8	14.5	12.5	13.5	13.5
122.5°	49.8	46.7	42.6	37.4	32.2	27.0	20.8	15.6	11.4	13.5	13.5
125°	59.2	55.0	48.8	41.5	35.3	29.1	21.8	15.6	12.5	13.5	13.5
127.5°	69.5	64.4	56.1	46.7	38.4	30.1	22.8	15.6	12.5	12.5	13.5
130°	83.0	74.7	63.3	51.9	41.5	32.2	22.8	15.6	12.5	12.5	12.5
132.5°	94.5	84.1	69.5	56.1	43.6	33.2	22.8	15.6	11.4	11.4	11.4
135°	105.9	92.4	74.7	59.2	45.7	33.2	22.8	14.5	11.4	11.4	11.4
137.5°	115.2	97.6	78.9	60.2	45.7	32.2	21.8	13.5	10.4	10.4	10.4
140°	120.4	100.7	79.9	60.2	43.6	31.1	19.7	12.5	9.3	9.3	9.3
142.5°	120.4	99.7	78.9	58.1	41.5	29.1	17.6	10.4	8.3	8.3	8.3
145°	116.3	95.5	74.7	55.0	38.4	26.0	15.6	9.3	6.2	6.2	7.3
147.5°	109.0	88.2	68.5	49.8	34.3	21.8	13.5	7.3	5.2	5.2	5.2
150°	96.5	77.9	59.2	43.6	29.1	18.7	11.4	6.2	4.2	4.2	4.2
152.5°	81.0	64.4	49.8	36.3	23.9	14.5	8.3	5.2	3.1	3.1	3.1
155°	64.4	50.9	39.4	28.0	17.6	11.4	6.2	4.2	3.1	3.1	3.1
157.5°	47.8	38.4	29.1	20.8	13.5	8.3	5.2	3.1	2.1	2.1	2.1
160°	33.2	27.0	19.7	13.5	8.3	5.2	3.1	2.1	1.0	1.0	1.0
162.5°	21.8	16.6	12.5	8.3	5.2	3.1	2.1	1.0	1.0	1.0	1.0
165°	10.4	8.3	6.2	4.2	2.1	2.1	1.0	1.0	0.0	0.0	0.0
167.5°	3.1	2.1	1.0	1.0	1.0	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)