

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: P691091

Luminaire Tested: **CRTK2-C013-5TLD-U-T5R-7050-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C013-5TLD-U-T5R-7050-RMARROA5  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3178 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type V - Short  
BUG Rating: B2 - U3 - G1

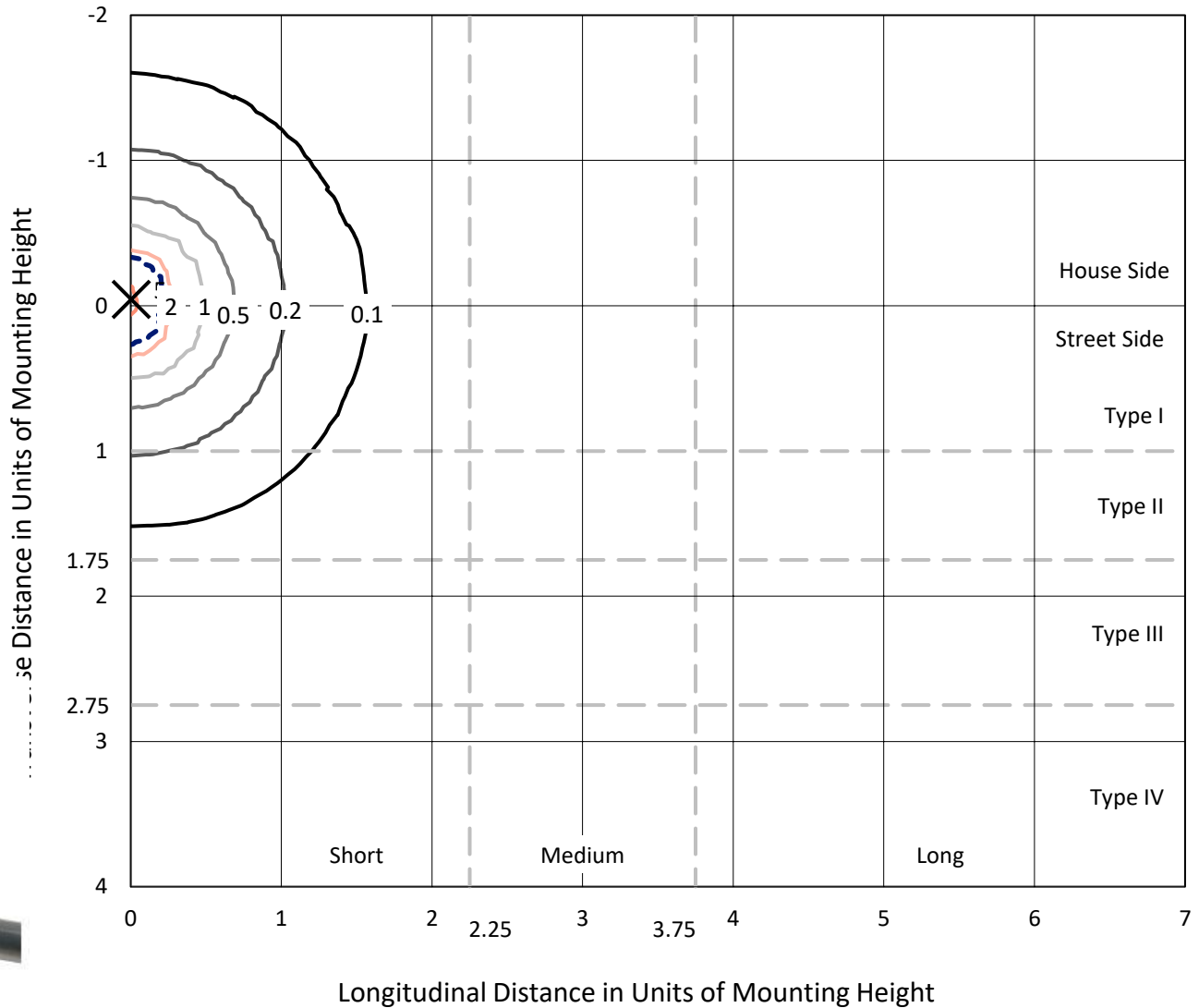
Input Watts (W): 23.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

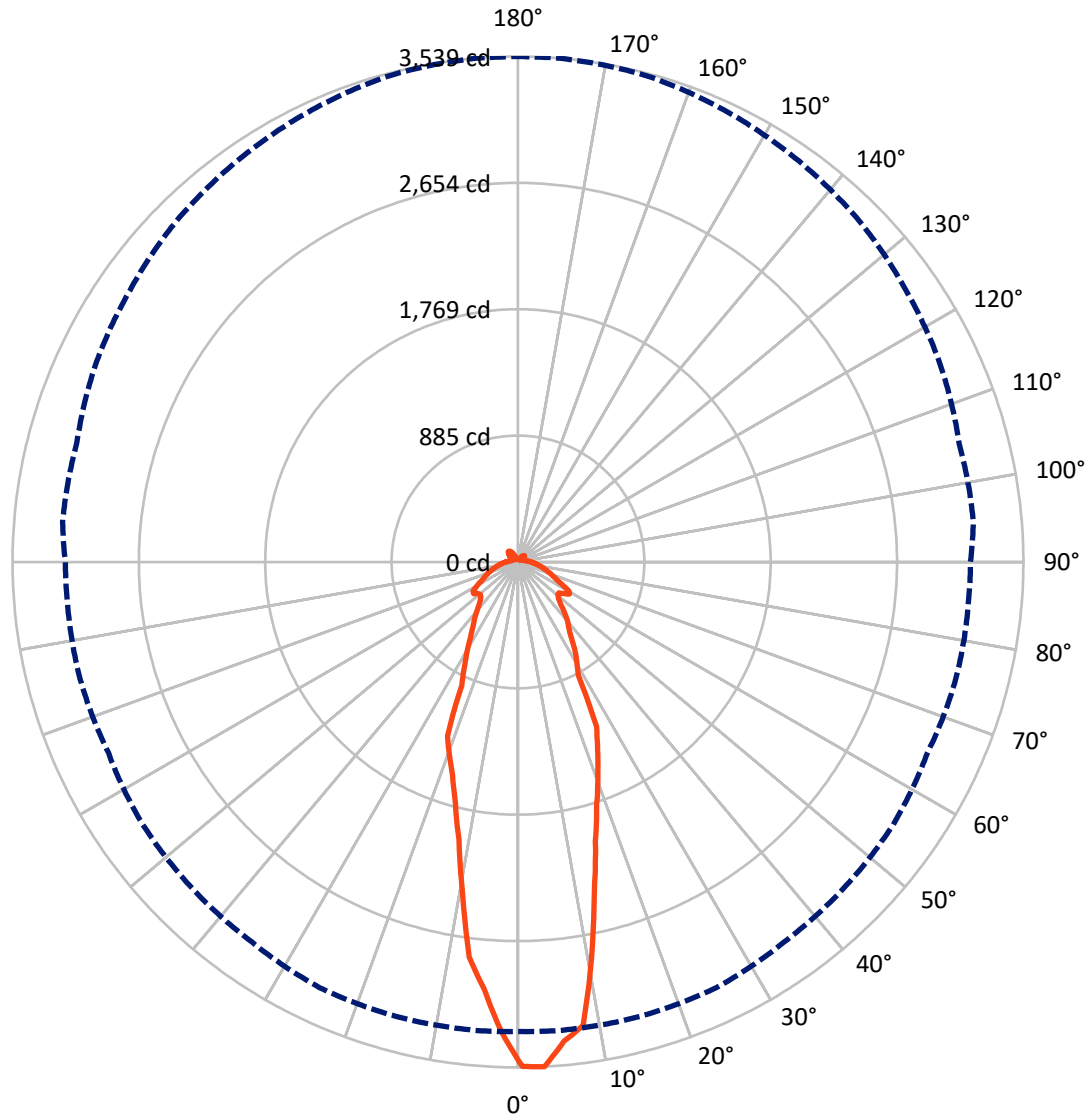
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 175-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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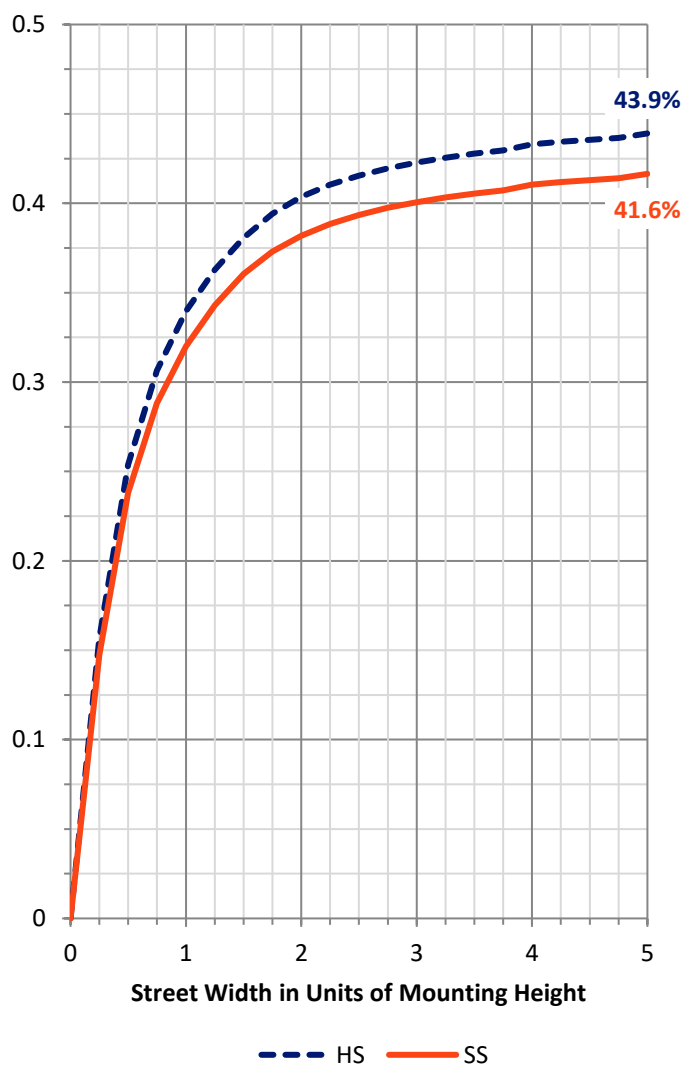
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1438.3	190.0	1628.3
	% Fixture	45.3	6.0	51.2
<b>Street Side</b>	Lumens	1354.7	195.0	1549.7
	% Fixture	42.6	6.1	48.8
<b>Total</b>	Lumens	2793.0	385.0	3178.0
	% Fixture	87.9	12.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.9	8.3
10°-20°	461.5	14.5
20°-30°	457.6	14.4
30°-40°	352.8	11.1
40°-50°	302.4	9.5
50°-60°	338.2	10.6
60°-70°	289.8	9.1
70°-80°	199.4	6.3
80°-90°	128.4	4.0
90°-100°	76.9	2.4
100°-110°	45.7	1.4
110°-120°	42.3	1.3
120°-130°	60.4	1.9
130°-140°	78.1	2.5
140°-150°	57.8	1.8
150°-160°	21.1	0.7
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-90°	2793.0	87.9
0°-180°	3178.0	100.0

**Coefficient of Utilization**



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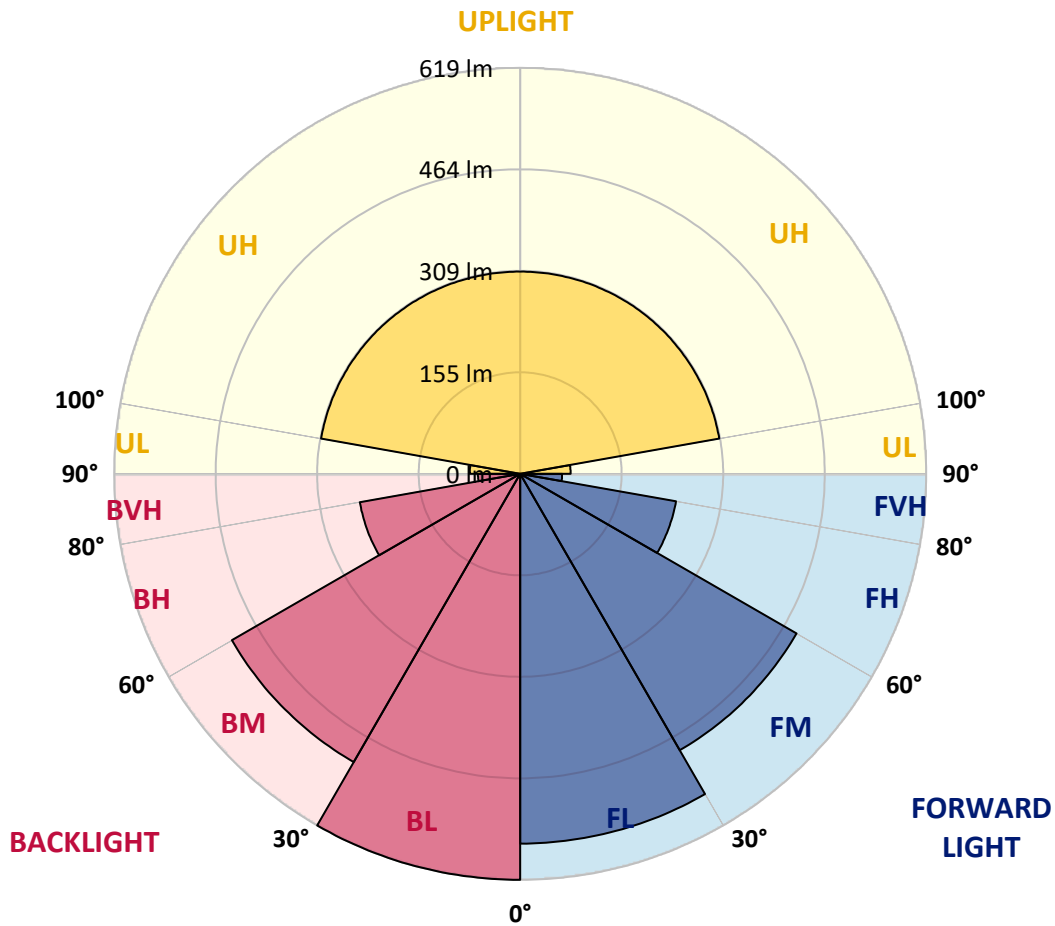
CATALOG NUMBER: CRTK2-C013-5TLD-U-T5R-7050-RMARROA5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.4	17.7			
FM (30°-60°)	486.2	15.3			
FH (60°-80°)	241.1	7.6			G0/660
FVH (80°-90°)	64.0	2.0			G1/100
BL (0°-30°)	618.6	19.5	B2/1000		
BM (30°-60°)	507.2	16.0	B1/1000		
BH (60°-80°)	248.1	7.8	B1/500		G0/660
BVH (80°-90°)	64.4	2.0			G1/100
UL (90°-100°)	76.9	2.4		U3/500	
UH (100°-180°)	308.1	9.7		U3/500	

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

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7
2.5°	3287.8	3292.6	3293.8	3287.8	3248.4	3228.0	3206.5	3163.5	3173.0	3167.1	3168.3
5°	2981.7	3000.9	2971.0	2962.6	2902.8	2858.6	2815.6	2768.9	2758.2	2739.0	2746.2
7.5°	2778.5	2789.3	2740.2	2690.0	2594.4	2526.2	2454.5	2382.8	2329.0	2308.6	2317.0
10°	2313.4	2349.3	2300.3	2248.9	2158.0	2076.7	2001.4	1930.8	1881.8	1866.3	1868.7
12.5°	1966.7	1987.0	1945.2	1910.5	1808.9	1731.2	1661.8	1596.1	1556.6	1539.9	1539.9
15°	1737.2	1745.5	1713.3	1646.3	1569.8	1499.2	1440.7	1392.8	1360.6	1354.6	1357.0
17.5°	1563.8	1563.8	1531.5	1478.9	1420.3	1358.2	1317.5	1281.7	1267.3	1272.1	1273.3
20°	1433.5	1434.7	1406.0	1354.6	1304.4	1248.2	1214.7	1189.6	1181.2	1189.6	1190.8
22.5°	1310.3	1316.3	1285.2	1247.0	1192.0	1147.7	1120.2	1092.8	1088.0	1091.6	1091.6
25°	948.1	948.1	937.3	907.4	919.4	924.2	956.5	1025.8	1011.5	1024.6	1023.4
27.5°	817.8	822.6	801.0	774.7	747.2	715.0	709.0	703.0	697.0	724.5	734.1
30°	722.1	724.5	706.6	688.6	665.9	648.0	643.2	643.2	637.2	658.8	657.6
32.5°	631.3	627.7	622.9	606.2	591.8	576.3	579.9	577.5	577.5	596.6	597.8
35°	559.5	558.3	554.7	542.8	528.4	516.5	520.1	522.5	521.3	533.2	533.2
37.5°	506.9	508.1	505.7	500.9	486.6	477.0	479.4	477.0	480.6	489.0	489.0
40°	455.5	455.5	456.7	455.5	445.9	442.4	449.5	445.9	454.3	460.3	457.9
42.5°	406.5	407.7	410.1	407.7	401.7	398.1	401.7	402.9	414.9	423.2	422.0
45°	375.4	375.4	376.6	375.4	370.6	367.0	367.0	363.5	371.8	376.6	375.4
47.5°	355.1	355.1	357.5	356.3	353.9	350.3	347.9	343.1	346.7	350.3	346.7
50°	347.9	347.9	352.7	352.7	351.5	347.9	344.3	338.3	339.5	341.9	337.2
52.5°	358.7	358.7	367.0	370.6	370.6	364.6	359.9	351.5	351.5	353.9	346.7
55°	381.4	381.4	394.5	401.7	402.9	402.9	396.9	388.6	389.8	394.5	387.4
57.5°	373.0	374.2	385.0	394.5	400.5	404.1	404.1	399.3	402.9	414.9	411.3
60°	333.6	336.0	343.1	351.5	362.3	365.8	365.8	364.6	370.6	385.0	385.0
62.5°	296.5	297.7	301.3	308.5	314.4	316.8	316.8	312.0	319.2	326.4	324.0
65°	267.8	266.6	273.8	279.8	283.3	286.9	283.3	278.6	282.2	286.9	285.7
67.5°	243.9	243.9	249.9	254.7	257.0	260.6	258.2	255.9	260.6	263.0	260.6
70°	221.2	222.4	227.2	230.7	233.1	236.7	233.1	231.9	236.7	239.1	237.9
72.5°	198.5	199.7	203.2	208.0	210.4	211.6	210.4	209.2	212.8	215.2	215.2
75°	178.1	179.3	181.7	186.5	186.5	188.9	187.7	186.5	190.1	192.5	192.5
77.5°	159.0	161.4	162.6	166.2	167.4	168.6	167.4	167.4	169.8	172.2	173.4
80°	142.3	143.5	144.7	148.3	148.3	149.4	148.3	148.3	150.6	154.2	154.2
82.5°	126.7	127.9	129.1	131.5	130.3	131.5	131.5	131.5	133.9	137.5	137.5
85°	111.2	113.6	113.6	116.0	116.0	116.0	116.0	117.2	118.4	121.9	121.9
87.5°	98.0	99.2	100.4	101.6	101.6	102.8	102.8	104.0	105.2	107.6	108.8
90°	84.9	86.1	87.3	87.3	87.3	88.5	88.5	89.7	90.9	93.3	94.4
92.5°	75.3	76.5	76.5	77.7	77.7	77.7	78.9	80.1	81.3	83.7	83.7
95°	67.0	68.1	68.1	68.1	68.1	69.3	69.3	70.5	71.7	74.1	74.1
97.5°	59.8	59.8	59.8	59.8	59.8	61.0	61.0	62.2	63.4	64.6	64.6
100°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	53.8	53.8	56.2	56.2
102.5°	46.6	46.6	45.4	45.4	45.4	44.2	44.2	45.4	45.4	46.6	46.6
105°	41.8	41.8	41.8	41.8	40.6	40.6	40.6	40.6	40.6	41.8	41.8
107.5°	40.6	40.6	39.5	39.5	39.5	38.3	38.3	38.3	38.3	39.5	39.5
110°	39.5	39.5	39.5	39.5	38.3	38.3	37.1	37.1	37.1	38.3	38.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	40.6	40.6	40.6	39.5	39.5	38.3	38.3	38.3	38.3	38.3	39.5
115°	43.0	41.8	41.8	41.8	41.8	40.6	39.5	39.5	40.6	40.6	40.6
117.5°	46.6	45.4	45.4	46.6	45.4	44.2	43.0	43.0	44.2	44.2	45.4
120°	51.4	50.2	51.4	51.4	51.4	50.2	49.0	47.8	49.0	50.2	50.2
122.5°	57.4	56.2	57.4	58.6	58.6	57.4	55.0	55.0	56.2	57.4	58.6
125°	64.6	64.6	65.8	67.0	68.1	65.8	64.6	63.4	65.8	67.0	67.0
127.5°	72.9	71.7	74.1	77.7	78.9	76.5	74.1	72.9	75.3	77.7	77.7
130°	81.3	80.1	83.7	87.3	89.7	87.3	84.9	83.7	86.1	88.5	88.5
132.5°	88.5	87.3	92.1	96.8	99.2	98.0	95.6	93.3	96.8	99.2	98.0
135°	94.4	94.4	100.4	105.2	107.6	106.4	104.0	101.6	106.4	108.8	106.4
137.5°	98.0	98.0	105.2	110.0	112.4	112.4	111.2	108.8	113.6	114.8	111.2
140°	98.0	99.2	105.2	110.0	111.2	112.4	112.4	111.2	116.0	116.0	112.4
142.5°	94.4	95.6	101.6	106.4	107.6	108.8	110.0	108.8	112.4	112.4	110.0
145°	88.5	89.7	95.6	100.4	100.4	101.6	104.0	102.8	105.2	106.4	104.0
147.5°	80.1	81.3	86.1	88.5	89.7	92.1	94.4	94.4	95.6	96.8	95.6
150°	69.3	69.3	72.9	75.3	76.5	78.9	81.3	82.5	82.5	83.7	82.5
152.5°	55.0	55.0	57.4	59.8	61.0	64.6	65.8	67.0	68.1	69.3	68.1
155°	41.8	41.8	43.0	44.2	45.4	49.0	50.2	51.4	52.6	53.8	52.6
157.5°	29.9	29.9	31.1	32.3	33.5	35.9	37.1	38.3	38.3	39.5	39.5
160°	19.1	20.3	20.3	21.5	21.5	23.9	25.1	25.1	26.3	27.5	27.5
162.5°	9.6	10.8	10.8	12.0	13.2	14.3	15.5	15.5	16.7	16.7	16.7
165°	2.4	3.6	3.6	4.8	4.8	6.0	7.2	7.2	8.4	8.4	8.4
167.5°	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
170°	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2	1.2	1.2	1.2
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°	178°	180°
0°	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7	3531.7
2.5°	3200.5	3198.1	3263.9	3316.5	3378.7	3427.7	3475.5	3521.0	3538.9	3537.7	3538.9
5°	2778.5	2820.3	2906.4	2991.3	3091.7	3186.2	3274.7	3333.2	3370.3	3370.3	3373.9
7.5°	2355.3	2422.2	2528.6	2663.7	2814.4	2937.5	3087.0	3192.2	3275.9	3273.5	3289.0
10°	1902.2	1954.8	2061.2	2205.8	2372.0	2514.3	2644.6	2742.6	2823.9	2819.2	2839.5
12.5°	1562.6	1599.7	1691.7	1823.2	1975.1	2112.6	2240.5	2317.0	2374.4	2373.2	2384.0
15°	1362.9	1401.2	1461.0	1551.8	1677.4	1799.3	1927.3	1996.6	2028.9	2025.3	2043.2
17.5°	1281.7	1297.2	1334.3	1395.2	1486.1	1585.3	1686.9	1746.7	1783.8	1779.0	1792.2
20°	1194.4	1208.7	1233.8	1279.3	1343.8	1419.1	1505.2	1571.0	1598.5	1597.3	1605.6
22.5°	1093.9	1101.1	1128.6	1164.5	1211.1	1272.1	1337.8	1397.6	1425.1	1423.9	1432.3
25°	1024.6	1036.6	1053.3	1074.8	1107.1	1154.9	1209.9	1251.8	1276.9	1274.5	1285.2
27.5°	748.4	760.4	768.8	781.9	783.1	822.6	841.7	876.4	899.1	897.9	905.0
30°	657.6	660.0	667.1	685.1	695.8	726.9	765.2	791.5	810.6	817.8	822.6
32.5°	600.2	607.3	615.7	624.1	637.2	656.4	686.3	710.2	730.5	734.1	742.4
35°	534.4	539.2	545.2	553.5	561.9	577.5	600.2	619.3	634.8	640.8	645.6
37.5°	487.8	489.0	495.0	504.5	511.7	524.9	545.2	559.5	575.1	576.3	581.0
40°	456.7	457.9	463.9	472.2	480.6	489.0	506.9	520.1	530.8	532.0	535.6
42.5°	420.8	424.4	426.8	430.4	436.4	443.6	459.1	466.3	473.4	474.6	479.4
45°	371.8	373.0	375.4	379.0	386.2	393.3	404.1	412.5	417.3	417.3	416.1
47.5°	344.3	345.5	345.5	350.3	356.3	363.5	373.0	380.2	382.6	382.6	382.6
50°	334.8	334.8	332.4	336.0	341.9	346.7	356.3	362.3	363.5	364.6	365.8
52.5°	341.9	339.5	332.4	336.0	341.9	346.7	356.3	358.7	358.7	361.1	362.3
55°	381.4	377.8	363.5	365.8	373.0	379.0	386.2	387.4	389.8	393.3	392.1
57.5°	406.5	408.9	392.1	395.7	408.9	413.7	422.0	420.8	425.6	430.4	431.6
60°	382.6	389.8	376.6	381.4	396.9	399.3	407.7	402.9	410.1	410.1	410.1
62.5°	325.2	327.6	320.4	327.6	341.9	341.9	347.9	344.3	346.7	344.3	345.5
65°	284.5	283.3	275.0	284.5	289.3	291.7	296.5	297.7	297.7	295.3	295.3
67.5°	259.4	257.0	249.9	252.3	257.0	258.2	265.4	266.6	265.4	265.4	266.6
70°	236.7	233.1	226.0	227.2	230.7	231.9	237.9	240.3	239.1	237.9	239.1
72.5°	214.0	210.4	203.2	203.2	206.8	209.2	214.0	216.4	214.0	214.0	215.2
75°	192.5	188.9	181.7	181.7	184.1	185.3	191.3	192.5	191.3	190.1	191.3
77.5°	173.4	171.0	163.8	163.8	165.0	166.2	169.8	171.0	169.8	168.6	169.8
80°	155.4	151.8	147.1	145.9	147.1	147.1	150.6	151.8	149.4	149.4	150.6
82.5°	138.7	135.1	130.3	130.3	129.1	130.3	132.7	133.9	132.7	131.5	132.7
85°	123.1	120.8	116.0	114.8	114.8	114.8	117.2	117.2	116.0	116.0	116.0
87.5°	108.8	106.4	101.6	101.6	100.4	101.6	102.8	102.8	101.6	101.6	101.6
90°	94.4	92.1	88.5	88.5	87.3	88.5	89.7	89.7	88.5	88.5	88.5
92.5°	83.7	82.5	78.9	78.9	77.7	78.9	78.9	78.9	77.7	77.7	77.7
95°	74.1	72.9	70.5	69.3	69.3	69.3	69.3	69.3	68.1	68.1	68.1
97.5°	64.6	63.4	61.0	61.0	59.8	61.0	61.0	61.0	59.8	59.8	59.8
100°	56.2	55.0	53.8	53.8	52.6	52.6	52.6	52.6	52.6	52.6	52.6
102.5°	46.6	46.6	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
105°	41.8	41.8	41.8	41.8	43.0	43.0	43.0	41.8	41.8	41.8	41.8
107.5°	39.5	39.5	39.5	40.6	40.6	40.6	41.8	39.5	38.3	38.3	38.3
110°	38.3	38.3	39.5	39.5	40.6	40.6	41.8	37.1	35.9	35.9	35.9



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	39.5	39.5	39.5	40.6	41.8	41.8	43.0	37.1	35.9	35.9	35.9
115°	41.8	41.8	41.8	43.0	44.2	45.4	45.4	39.5	37.1	37.1	38.3
117.5°	45.4	45.4	45.4	46.6	49.0	49.0	49.0	41.8	40.6	40.6	40.6
120°	50.2	51.4	51.4	52.6	55.0	56.2	53.8	47.8	40.6	44.2	44.2
122.5°	57.4	58.6	59.8	61.0	64.6	64.6	61.0	55.0	44.2	49.0	50.2
125°	67.0	68.1	69.3	71.7	75.3	75.3	70.5	62.2	50.2	55.0	56.2
127.5°	76.5	78.9	80.1	83.7	88.5	88.5	82.5	71.7	56.2	59.8	61.0
130°	87.3	89.7	92.1	96.8	102.8	100.4	95.6	81.3	61.0	63.4	63.4
132.5°	96.8	100.4	101.6	108.8	114.8	112.4	106.4	87.3	63.4	63.4	62.2
135°	104.0	106.4	107.6	114.8	120.8	117.2	110.0	89.7	62.2	59.8	59.8
137.5°	108.8	111.2	112.4	117.2	121.9	116.0	106.4	84.9	59.8	58.6	57.4
140°	111.2	111.2	111.2	114.8	117.2	110.0	98.0	76.5	53.8	56.2	56.2
142.5°	108.8	107.6	106.4	108.8	110.0	101.6	90.9	68.1	49.0	51.4	51.4
145°	102.8	100.4	99.2	100.4	100.4	90.9	78.9	58.6	43.0	44.2	44.2
147.5°	94.4	90.9	88.5	88.5	87.3	77.7	67.0	49.0	37.1	35.9	35.9
150°	81.3	77.7	75.3	75.3	71.7	63.4	53.8	38.3	29.9	29.9	29.9
152.5°	67.0	63.4	61.0	61.0	57.4	49.0	40.6	28.7	22.7	22.7	22.7
155°	52.6	49.0	46.6	45.4	43.0	37.1	29.9	21.5	16.7	16.7	16.7
157.5°	39.5	37.1	34.7	33.5	31.1	27.5	21.5	15.5	10.8	12.0	12.0
160°	27.5	25.1	23.9	22.7	21.5	17.9	14.3	9.6	6.0	6.0	6.0
162.5°	16.7	15.5	15.5	14.3	13.2	12.0	8.4	4.8	2.4	2.4	2.4
165°	8.4	8.4	7.2	7.2	6.0	4.8	3.6	1.2	0.0	0.0	0.0
167.5°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
170°	1.2	1.2	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)