

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: P691766

Luminaire Tested: **CRTK2-C01H-5TLD-U-T2-7050-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691766  
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-C01H-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: 8437 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B3 - U4 - G2

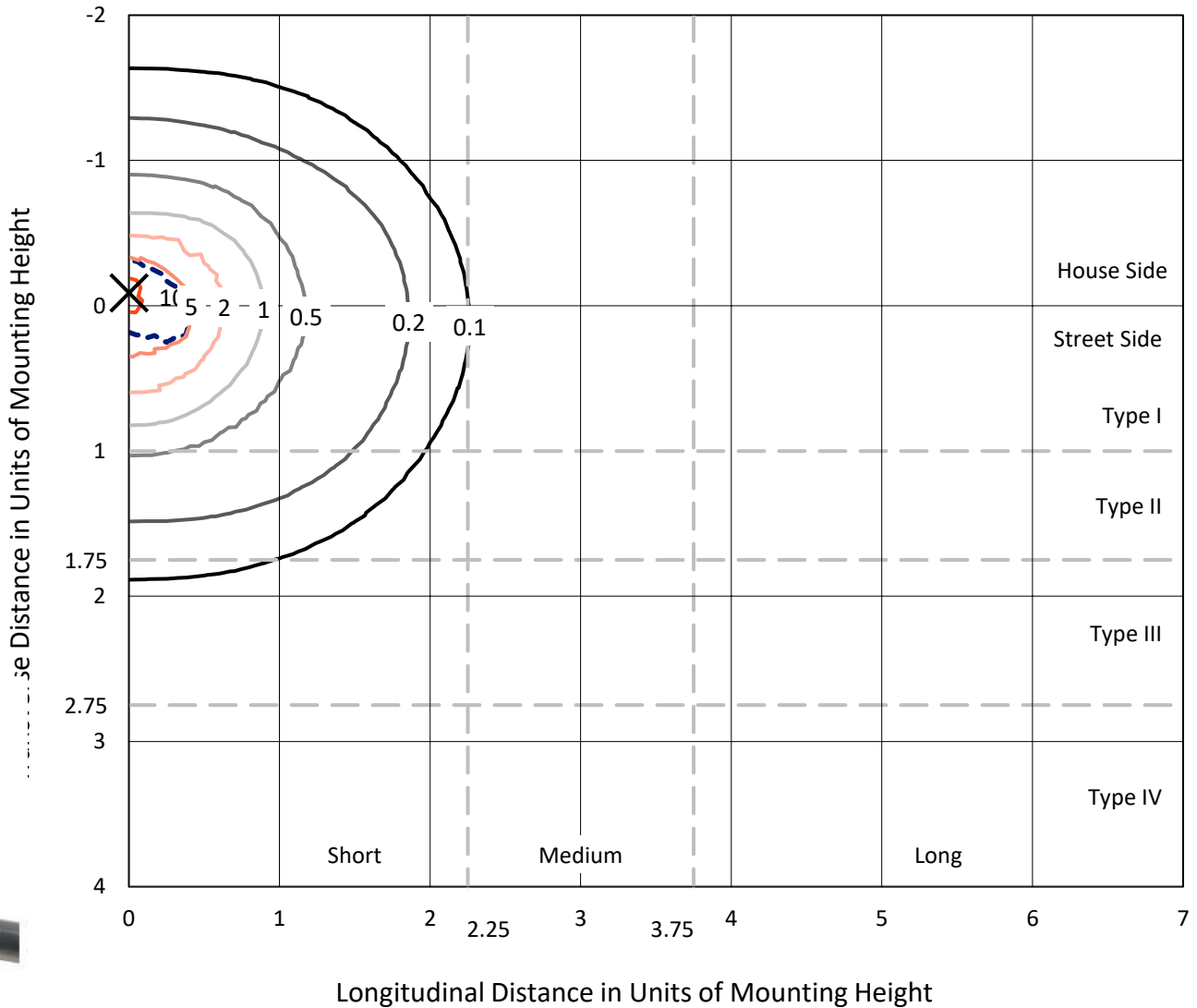
Input Watts (W): 74.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

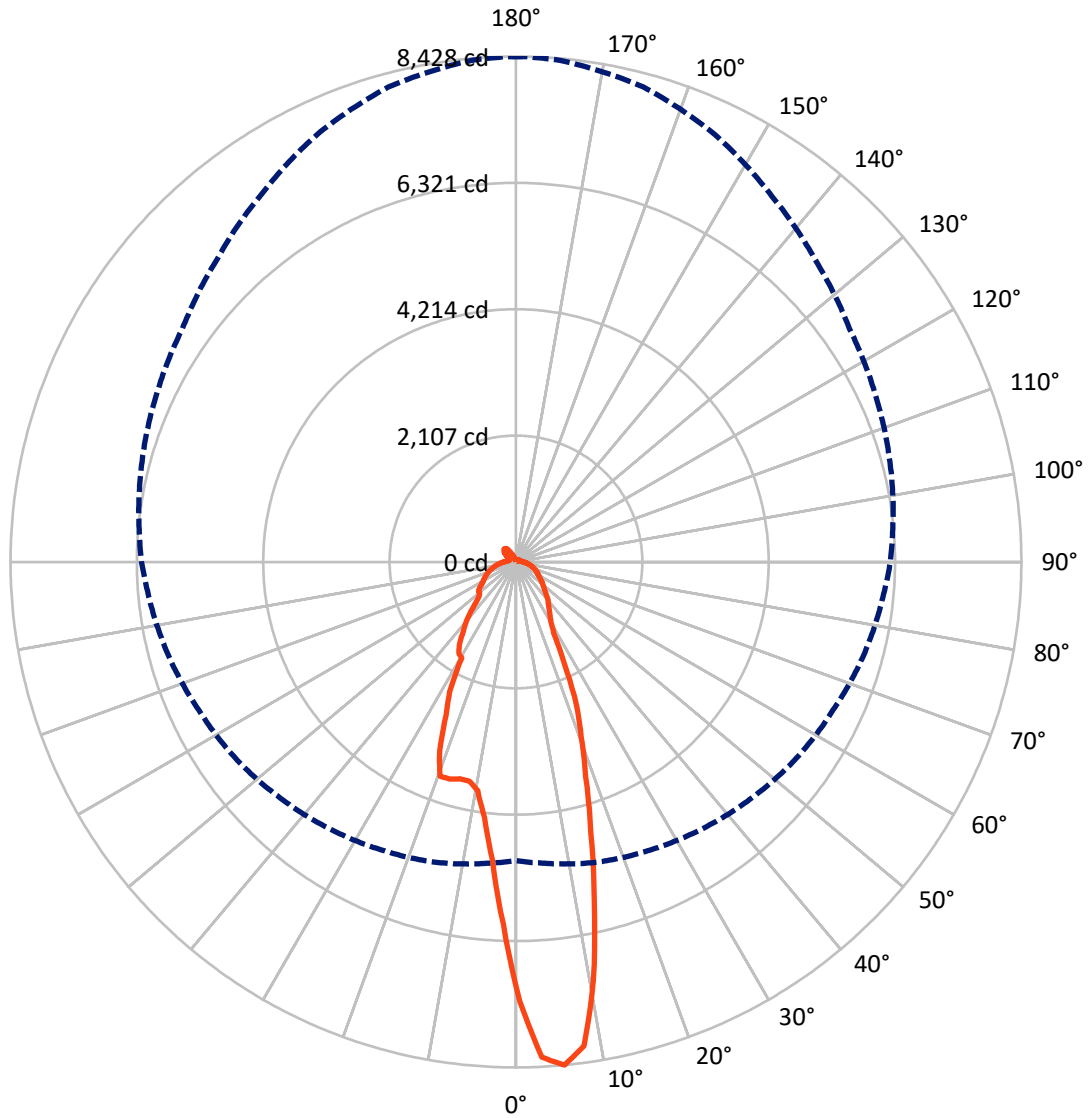
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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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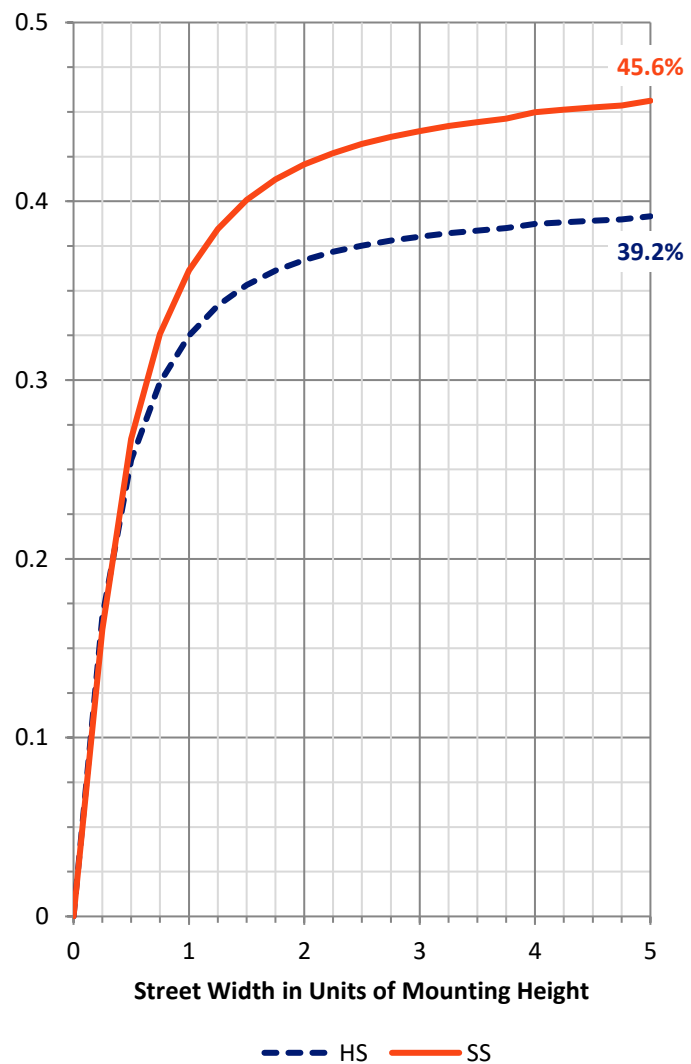
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3395.1	412.8	3807.9
	% Fixture	40.2	4.9	45.1
<b>Street Side</b>	Lumens	3940.7	688.3	4629.1
	% Fixture	46.7	8.2	54.9
<b>Total</b>	Lumens	7335.9	1101.1	8437.0
	% Fixture	86.9	13.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.4	6.8
10°-20°	1221.2	14.5
20°-30°	1326.6	15.7
30°-40°	981.9	11.6
40°-50°	822.4	9.7
50°-60°	826.8	9.8
60°-70°	703.9	8.3
70°-80°	525.8	6.2
80°-90°	355.0	4.2
90°-100°	212.1	2.5
100°-110°	122.5	1.5
110°-120°	112.8	1.3
120°-130°	163.1	1.9
130°-140°	223.3	2.6
140°-150°	184.0	2.2
150°-160°	74.1	0.9
160°-170°	9.1	0.1
170°-180°	0.0	0.0
0°-90°	7335.9	86.9
0°-180°	8437.0	100.0

**Coefficient of Utilization**



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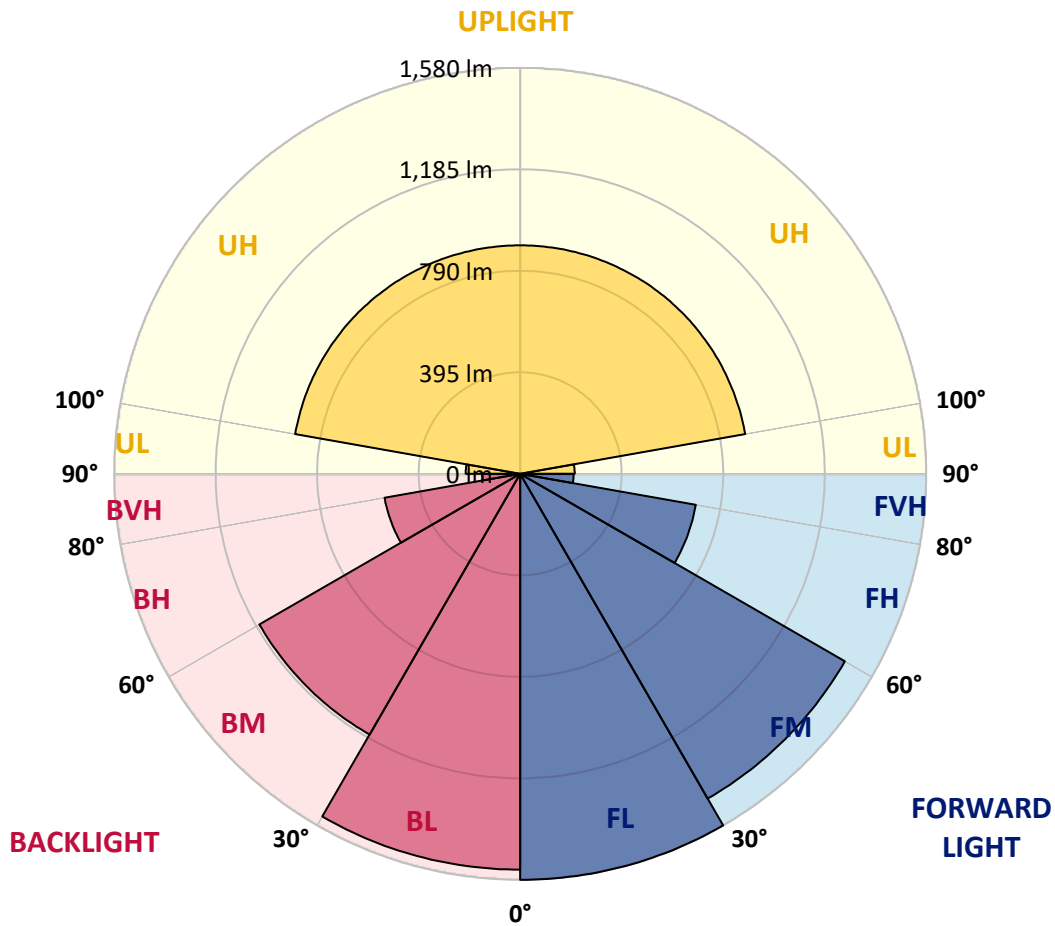
CATALOG NUMBER: CRTK2-C01H-5TLD-U-T2-7050-RMARROA5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.9	18.7			
FM (30°-60°)	1459.1	17.3			
FH (60°-80°)	693.9	8.2			G1/1800
FVH (80°-90°)	207.8	2.5			G2/225
BL (0°-30°)	1540.3	18.3	B3/2500		
BM (30°-60°)	1172.0	13.9	B2/2500		
BH (60°-80°)	535.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	147.1	1.7			G2/225
UL (90°-100°)	212.1	2.5		U3/500	
UH (100°-180°)	889.0	10.5		U4/1000	

**BUG Rating: B3-U4-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2
2.5°	6035.6	6069.5	6143.9	6181.1	6218.3	6265.7	6336.7	6390.9	6516.0	6631.1	6678.4
5°	4980.1	5041.0	5183.1	5298.1	5426.6	5562.0	5707.4	5836.0	6001.8	6154.0	6242.0
7.5°	4279.7	4330.5	4499.6	4722.9	4949.6	5139.1	5287.9	5386.0	5460.5	5521.4	5585.7
10°	3853.5	3897.4	4066.6	4266.2	4459.1	4635.0	4760.2	4854.9	4881.9	4942.8	4973.3
12.5°	3731.7	3752.0	3870.4	4009.1	4127.5	4300.0	4448.9	4550.4	4594.4	4648.5	4665.4
15°	3735.0	3735.0	3802.7	3890.7	3998.9	4130.9	4296.7	4418.5	4482.7	4513.2	4509.8
17.5°	3785.8	3782.4	3812.9	3883.9	3975.3	4107.2	4276.4	4401.5	4476.0	4486.1	4476.0
20°	3785.8	3789.2	3799.3	3880.5	3968.5	4086.9	4259.4	4364.3	4421.8	4391.4	4357.6
22.5°	3400.1	3396.7	3484.7	3657.2	3894.1	4141.0	4296.7	4425.2	4438.8	4327.1	4235.8
25°	2808.1	2784.4	2835.1	2912.9	3071.9	3359.5	3684.3	4171.5	4462.4	4398.2	4259.4
27.5°	2435.9	2405.5	2449.4	2415.6	2398.7	2378.4	2358.1	2300.6	2337.8	2371.6	2520.5
30°	1837.1	1843.8	1854.0	1874.3	1914.9	1996.1	2080.7	2131.4	2175.4	2263.4	2253.2
32.5°	1796.5	1793.1	1796.5	1816.8	1837.1	1887.8	1938.6	1965.6	1999.5	2084.0	2063.7
35°	1661.1	1654.4	1678.1	1688.2	1684.8	1698.4	1749.1	1779.6	1810.0	1864.1	1843.8
37.5°	1461.5	1468.3	1519.1	1546.1	1556.3	1586.7	1627.3	1654.4	1691.6	1732.2	1722.0
40°	1312.7	1309.3	1363.4	1400.6	1424.3	1471.7	1532.6	1573.2	1634.1	1667.9	1644.2
42.5°	1130.0	1143.5	1184.1	1221.3	1228.1	1251.8	1305.9	1353.3	1427.7	1478.5	1464.9
45°	950.7	960.8	994.7	1025.1	1048.8	1079.2	1119.8	1160.4	1221.3	1261.9	1258.5
47.5°	839.0	849.2	876.2	913.5	947.3	991.3	1031.9	1072.5	1130.0	1160.4	1150.3
50°	795.1	801.8	832.3	872.9	923.6	977.7	1031.9	1075.9	1130.0	1150.3	1133.4
52.5°	791.7	791.7	828.9	889.8	960.8	1035.3	1106.3	1167.2	1218.0	1218.0	1184.1
55°	744.3	751.1	798.4	879.6	987.9	1109.7	1234.9	1349.9	1417.6	1404.0	1339.7
57.5°	676.6	680.0	730.8	808.6	923.6	1072.5	1241.6	1387.1	1468.3	1485.2	1417.6
60°	636.0	639.4	673.3	747.7	845.8	964.2	1119.8	1234.9	1316.1	1366.8	1312.7
62.5°	602.2	602.2	636.0	686.8	768.0	855.9	943.9	1021.7	1086.0	1123.2	1092.8
65°	565.0	565.0	588.7	636.0	700.3	784.9	852.6	910.1	967.6	994.7	967.6
67.5°	527.8	527.8	551.5	595.4	653.0	724.0	791.7	845.8	903.3	923.6	903.3
70°	490.6	490.6	514.2	551.5	605.6	673.3	724.0	781.5	835.6	849.2	832.3
72.5°	453.3	453.3	477.0	510.9	558.2	622.5	669.9	713.9	764.6	774.8	757.8
75°	419.5	419.5	436.4	470.3	514.2	571.8	619.1	659.7	700.3	700.3	686.8
77.5°	382.3	385.7	399.2	429.7	470.3	524.4	568.4	605.6	639.4	639.4	622.5
80°	345.1	348.5	362.0	389.1	426.3	477.0	517.6	551.5	581.9	581.9	565.0
82.5°	307.9	311.3	324.8	348.5	382.3	429.7	470.3	504.1	531.2	527.8	510.9
85°	274.0	277.4	287.6	307.9	338.3	385.7	422.9	453.3	477.0	473.6	460.1
87.5°	240.2	243.6	253.7	270.7	297.7	341.7	378.9	406.0	426.3	422.9	409.4
90°	209.8	209.8	219.9	236.8	260.5	297.7	331.6	355.2	375.5	368.8	355.2
92.5°	182.7	186.1	192.8	206.4	226.7	260.5	291.0	311.3	331.6	328.2	314.6
95°	162.4	162.4	169.2	179.3	196.2	223.3	253.7	270.7	284.2	284.2	274.0
97.5°	142.1	145.5	148.9	155.6	169.2	189.5	213.1	230.1	240.2	240.2	233.4
100°	128.6	131.9	131.9	138.7	145.5	159.0	175.9	189.5	199.6	199.6	196.2
102.5°	121.8	121.8	121.8	125.2	128.6	135.3	145.5	152.2	159.0	162.4	159.0
105°	115.0	115.0	115.0	118.4	118.4	125.2	128.6	135.3	138.7	138.7	135.3
107.5°	111.6	111.6	115.0	115.0	115.0	118.4	125.2	125.2	128.6	125.2	125.2
110°	115.0	115.0	115.0	115.0	115.0	118.4	121.8	121.8	121.8	121.8	118.4



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CATALOG NUMBER: CRTK2-C01H-5TLD-U-T2-7050-RMARROA5

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	118.4	118.4	118.4	118.4	121.8	121.8	121.8	125.2	125.2	121.8	121.8
115°	128.6	128.6	128.6	128.6	128.6	131.9	131.9	131.9	131.9	128.6	125.2
117.5°	138.7	138.7	138.7	142.1	142.1	145.5	142.1	145.5	142.1	138.7	138.7
120°	155.6	155.6	159.0	162.4	165.8	165.8	162.4	165.8	165.8	159.0	155.6
122.5°	175.9	175.9	179.3	189.5	192.8	196.2	192.8	192.8	192.8	186.1	182.7
125°	196.2	199.6	206.4	219.9	230.1	236.8	230.1	233.4	233.4	223.3	219.9
127.5°	219.9	223.3	236.8	257.1	274.0	280.8	277.4	280.8	284.2	267.3	260.5
130°	243.6	243.6	263.9	294.3	318.0	328.2	331.6	334.9	338.3	321.4	307.9
132.5°	263.9	263.9	291.0	328.2	358.6	375.5	382.3	389.1	395.8	372.2	355.2
135°	277.4	280.8	314.6	358.6	395.8	419.5	429.7	436.4	446.6	419.5	399.2
137.5°	287.6	294.3	328.2	375.5	416.1	450.0	470.3	480.4	487.2	460.1	433.0
140°	291.0	294.3	331.6	378.9	419.5	456.7	487.2	504.1	507.5	480.4	453.3
142.5°	280.8	287.6	321.4	368.8	409.4	450.0	483.8	500.7	504.1	480.4	453.3
145°	267.3	270.7	301.1	345.1	385.7	429.7	466.9	483.8	483.8	463.5	436.4
147.5°	243.6	247.0	274.0	311.3	351.9	395.8	433.0	450.0	453.3	433.0	409.4
150°	209.8	213.1	233.4	263.9	304.5	348.5	382.3	402.6	402.6	382.3	365.4
152.5°	169.2	172.5	189.5	213.1	247.0	287.6	318.0	338.3	338.3	324.8	304.5
155°	131.9	131.9	145.5	165.8	189.5	219.9	243.6	260.5	263.9	250.4	236.8
157.5°	94.7	94.7	104.9	121.8	142.1	165.8	182.7	196.2	196.2	186.1	179.3
160°	64.3	64.3	71.0	81.2	94.7	111.6	125.2	138.7	138.7	131.9	125.2
162.5°	33.8	33.8	40.6	47.4	57.5	71.0	77.8	88.0	88.0	84.6	81.2
165°	10.1	10.1	13.5	16.9	23.7	30.4	33.8	40.6	44.0	40.6	37.2
167.5°	0.0	0.0	3.4	3.4	3.4	3.4	6.8	10.1	10.1	10.1	10.1
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°	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2	7321.2
2.5°	6729.2	6942.3	7135.2	7334.8	7581.7	7798.3	8031.7	8197.5	8268.5	8268.5	8295.6
5°	6306.3	6455.1	6610.8	6786.7	7081.0	7443.0	7859.2	8200.9	8397.1	8427.5	8424.2
7.5°	5606.0	5707.4	5866.5	6062.7	6333.3	6658.1	7192.7	7727.2	8082.5	8146.7	8123.1
10°	4990.2	5084.9	5179.7	5254.1	5446.9	5704.1	6096.5	6617.5	7026.9	7091.2	7040.4
12.5°	4675.6	4706.0	4702.6	4746.6	4824.4	4953.0	5152.6	5453.7	5734.5	5795.4	5751.4
15°	4509.8	4465.8	4398.2	4320.3	4313.6	4333.9	4384.6	4506.4	4624.8	4675.6	4641.7
17.5°	4442.1	4337.3	4198.5	4046.3	3944.8	3850.1	3785.8	3745.2	3762.1	3765.5	3738.4
20°	4283.1	4157.9	3934.7	3718.1	3555.7	3390.0	3247.9	3143.0	3126.1	3109.2	3088.9
22.5°	4103.8	3890.7	3623.4	3359.5	3119.3	2899.4	2740.4	2615.2	2567.8	2584.8	2574.6
25°	4066.6	3711.4	3386.6	2960.3	2655.8	2408.8	2111.1	1908.1	1816.8	1867.5	1833.7
27.5°	2439.3	2449.4	2266.7	2009.6	1789.7	1644.2	1512.3	1404.0	1343.1	1343.1	1349.9
30°	2209.2	2111.1	1989.3	1830.3	1637.5	1492.0	1346.5	1228.1	1163.8	1146.9	1153.7
32.5°	2019.8	1952.1	1837.1	1684.8	1508.9	1360.0	1207.8	1099.5	1038.6	1035.3	1031.9
35°	1816.8	1745.7	1651.0	1519.1	1366.8	1228.1	1096.2	1001.4	947.3	950.7	950.7
37.5°	1678.1	1613.8	1529.2	1404.0	1265.3	1126.6	1008.2	920.2	876.2	876.2	872.9
40°	1607.0	1532.6	1441.2	1326.2	1197.7	1052.2	940.5	855.9	818.7	818.7	815.3
42.5°	1451.4	1387.1	1326.2	1207.8	1079.2	960.8	855.9	781.5	744.3	744.3	744.3
45°	1231.5	1194.3	1146.9	1065.7	960.8	862.7	774.8	703.7	673.3	669.9	669.9
47.5°	1136.8	1096.2	1038.6	964.2	879.6	788.3	703.7	653.0	622.5	622.5	622.5
50°	1109.7	1062.3	984.5	896.5	808.6	727.4	653.0	605.6	578.5	578.5	581.9
52.5°	1146.9	1069.1	964.2	855.9	764.6	673.3	609.0	561.6	541.3	541.3	537.9
55°	1275.5	1130.0	977.7	845.8	730.8	632.7	565.0	514.2	490.6	490.6	490.6
57.5°	1346.5	1174.0	987.9	832.3	700.3	602.2	531.2	477.0	453.3	453.3	453.3
60°	1265.3	1123.2	947.3	805.2	676.6	575.1	500.7	450.0	426.3	422.9	419.5
62.5°	1058.9	971.0	845.8	727.4	625.9	537.9	477.0	426.3	402.6	402.6	399.2
65°	943.9	869.5	761.2	659.7	575.1	500.7	443.2	402.6	378.9	375.5	375.5
67.5°	879.6	812.0	703.7	609.0	531.2	463.5	409.4	372.2	355.2	348.5	348.5
70°	808.6	734.2	639.4	554.8	483.8	422.9	378.9	341.7	324.8	321.4	318.0
72.5°	737.5	669.9	581.9	500.7	436.4	385.7	345.1	311.3	294.3	291.0	291.0
75°	663.1	598.8	514.2	446.6	392.5	345.1	307.9	280.8	267.3	263.9	260.5
77.5°	602.2	544.7	463.5	399.2	348.5	311.3	277.4	253.7	240.2	240.2	236.8
80°	544.7	490.6	412.7	355.2	311.3	274.0	247.0	226.7	216.5	213.1	213.1
82.5°	490.6	436.4	365.4	314.6	274.0	243.6	216.5	199.6	189.5	189.5	189.5
85°	439.8	389.1	324.8	277.4	240.2	213.1	189.5	172.5	165.8	162.4	165.8
87.5°	389.1	341.7	287.6	243.6	209.8	182.7	162.4	148.9	142.1	142.1	142.1
90°	341.7	297.7	247.0	206.4	179.3	155.6	138.7	125.2	121.8	118.4	118.4
92.5°	301.1	263.9	219.9	186.1	159.0	142.1	125.2	115.0	108.3	108.3	108.3
95°	263.9	230.1	196.2	165.8	145.5	128.6	115.0	104.9	101.5	101.5	101.5
97.5°	226.7	199.6	172.5	148.9	131.9	118.4	104.9	98.1	94.7	91.3	94.7
100°	189.5	169.2	148.9	131.9	118.4	104.9	94.7	88.0	84.6	84.6	84.6
102.5°	152.2	142.1	125.2	111.6	101.5	94.7	84.6	77.8	74.4	74.4	74.4
105°	131.9	121.8	111.6	101.5	94.7	84.6	77.8	71.0	67.7	67.7	67.7
107.5°	121.8	115.0	104.9	98.1	88.0	81.2	74.4	64.3	60.9	60.9	60.9
110°	118.4	111.6	104.9	94.7	88.0	81.2	74.4	60.9	57.5	57.5	57.5



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	118.4	111.6	104.9	98.1	91.3	81.2	74.4	60.9	54.1	54.1	54.1
115°	125.2	118.4	111.6	104.9	94.7	84.6	77.8	60.9	54.1	54.1	54.1
117.5°	135.3	128.6	121.8	111.6	101.5	91.3	77.8	60.9	57.5	57.5	57.5
120°	152.2	145.5	135.3	125.2	111.6	98.1	84.6	64.3	54.1	57.5	57.5
122.5°	175.9	169.2	155.6	138.7	125.2	108.3	88.0	67.7	50.7	57.5	57.5
125°	209.8	199.6	179.3	159.0	138.7	118.4	94.7	71.0	54.1	60.9	60.9
127.5°	247.0	233.4	206.4	179.3	155.6	128.6	101.5	74.4	57.5	60.9	60.9
130°	291.0	267.3	233.4	199.6	169.2	138.7	108.3	77.8	60.9	60.9	60.9
132.5°	334.9	301.1	257.1	219.9	182.7	145.5	111.6	77.8	60.9	60.9	60.9
135°	372.2	331.6	280.8	233.4	189.5	148.9	115.0	77.8	60.9	60.9	60.9
137.5°	406.0	351.9	294.3	240.2	192.8	148.9	111.6	77.8	57.5	57.5	57.5
140°	422.9	362.0	301.1	240.2	189.5	145.5	104.9	71.0	54.1	54.1	54.1
142.5°	422.9	358.6	294.3	233.4	182.7	138.7	98.1	67.7	47.4	50.7	50.7
145°	409.4	345.1	280.8	219.9	169.2	125.2	88.0	57.5	44.0	44.0	44.0
147.5°	378.9	318.0	257.1	199.6	152.2	108.3	77.8	50.7	37.2	33.8	37.2
150°	338.3	280.8	223.3	172.5	128.6	91.3	64.3	40.6	30.4	30.4	30.4
152.5°	284.2	233.4	186.1	142.1	101.5	71.0	47.4	30.4	23.7	23.7	23.7
155°	223.3	182.7	145.5	108.3	77.8	54.1	37.2	23.7	16.9	16.9	16.9
157.5°	169.2	138.7	108.3	77.8	57.5	40.6	27.1	16.9	13.5	13.5	13.5
160°	118.4	94.7	74.4	54.1	37.2	27.1	16.9	10.1	6.8	6.8	6.8
162.5°	74.4	60.9	47.4	30.4	23.7	16.9	10.1	6.8	3.4	3.4	3.4
165°	33.8	30.4	20.3	13.5	10.1	6.8	3.4	3.4	0.0	0.0	0.0
167.5°	10.1	6.8	6.8	3.4	3.4	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)