

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: P691827

Luminaire Tested: **CRTK2-C01H-5TLD-U-T5R-7050-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691827  
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-C01H-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**

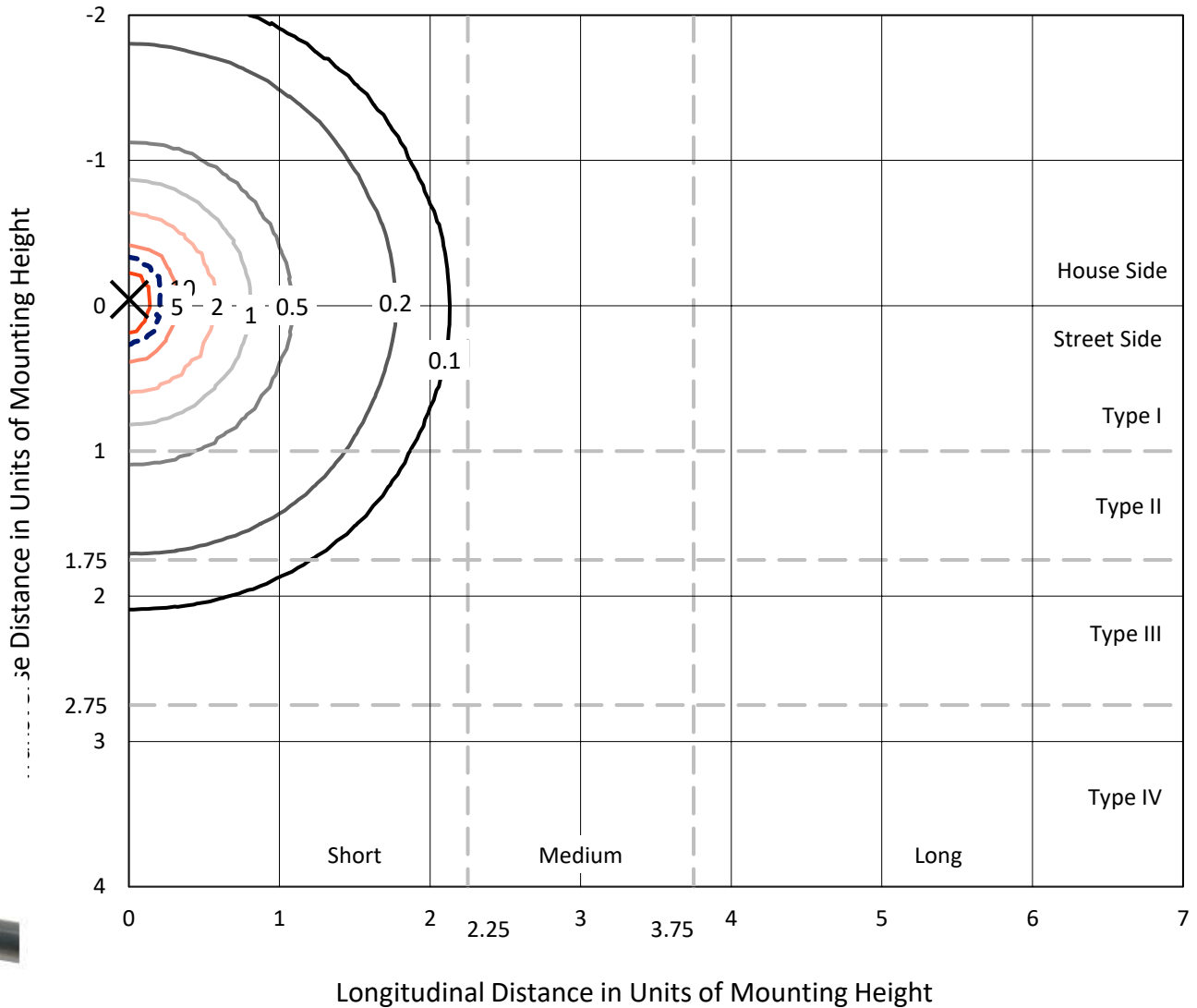
Lumens per Lamp: N/A  
Luminaire Lumens: 8991 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type V - Short  
BUG Rating: B3 - U4 - G2  
  
Input Watts (W): 74.9  
Input Voltage (V): NR  
Input Current (Ain): 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

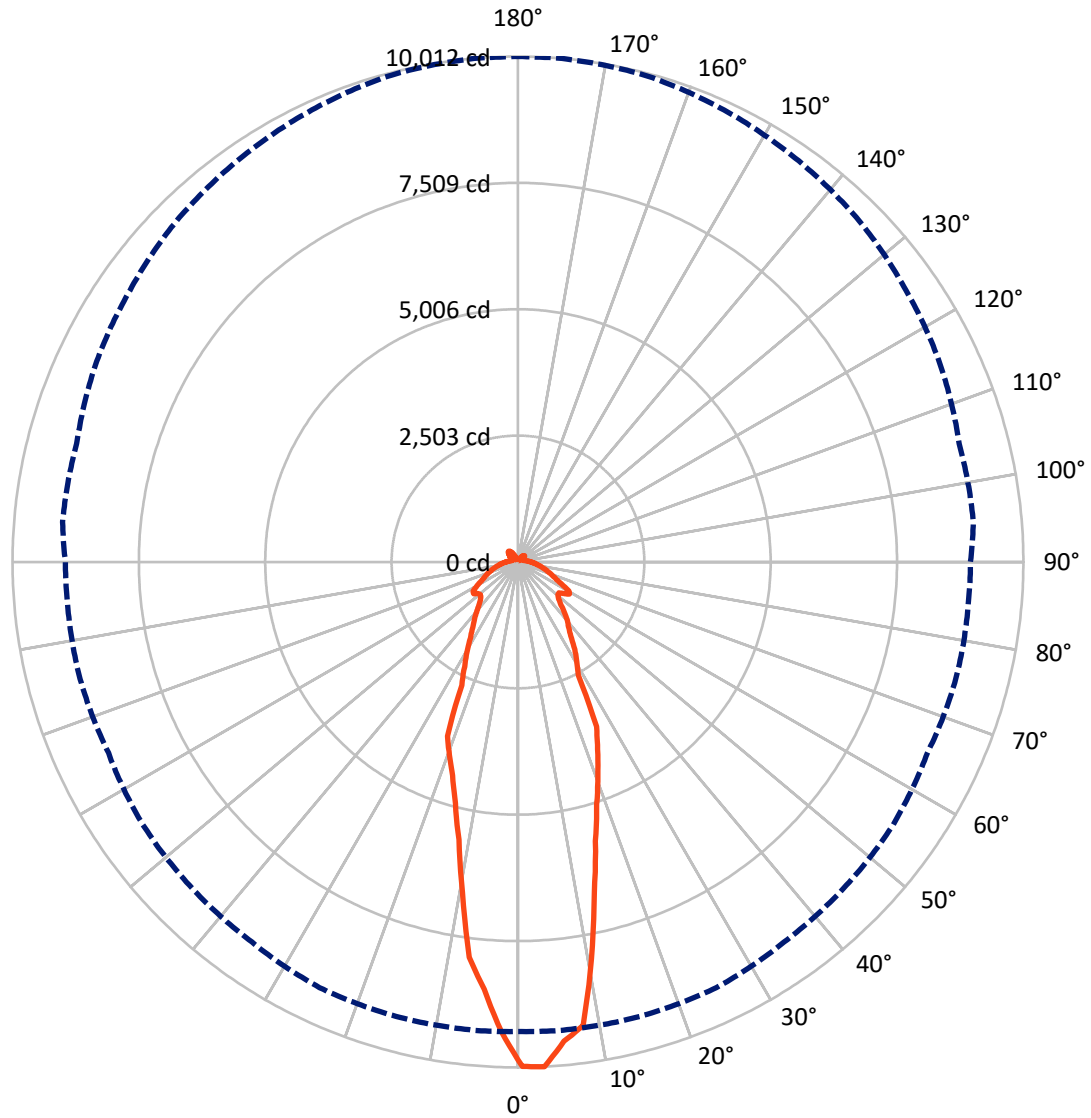
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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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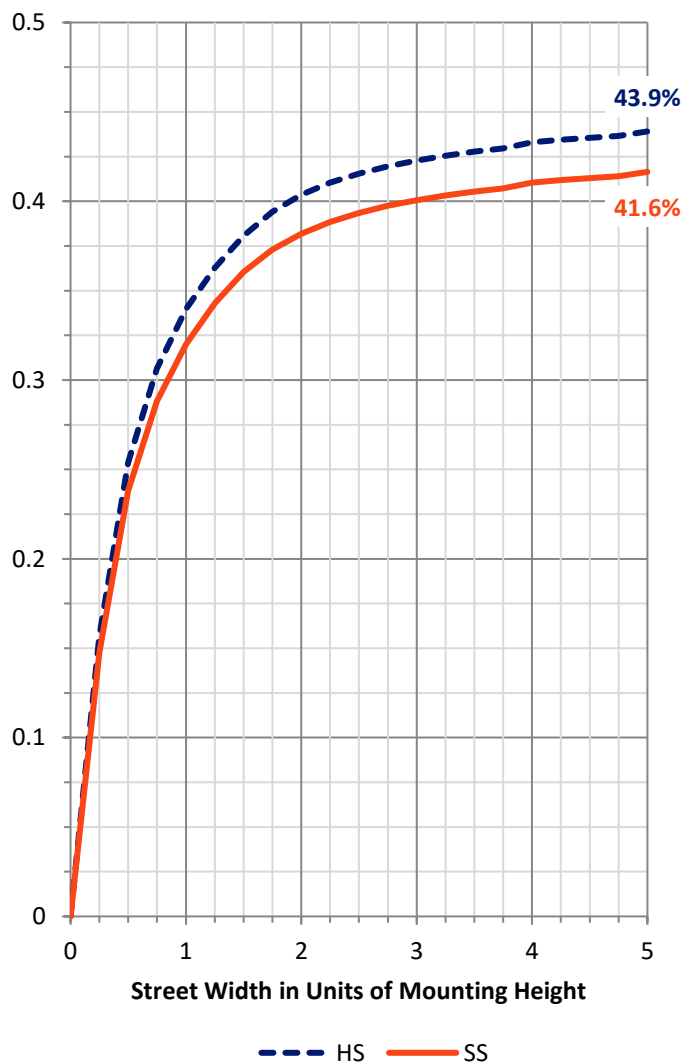
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4069.2	537.6	4606.7
	% Fixture	45.3	6.0	51.2
<b>Street Side</b>	Lumens	3832.5	551.7	4384.2
	% Fixture	42.6	6.1	48.8
<b>Total</b>	Lumens	7901.7	1089.3	8991.0
	% Fixture	87.9	12.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	743.9	8.3
10°-20°	1305.6	14.5
20°-30°	1294.6	14.4
30°-40°	998.0	11.1
40°-50°	855.6	9.5
50°-60°	956.9	10.6
60°-70°	819.8	9.1
70°-80°	564.2	6.3
80°-90°	363.2	4.0
90°-100°	217.6	2.4
100°-110°	129.5	1.4
110°-120°	119.8	1.3
120°-130°	171.0	1.9
130°-140°	221.0	2.5
140°-150°	163.6	1.8
150°-160°	59.8	0.7
160°-170°	7.0	0.1
170°-180°	0.0	0.0
0°-90°	7901.7	87.9
0°-180°	8991.0	100.0

**Coefficient of Utilization**



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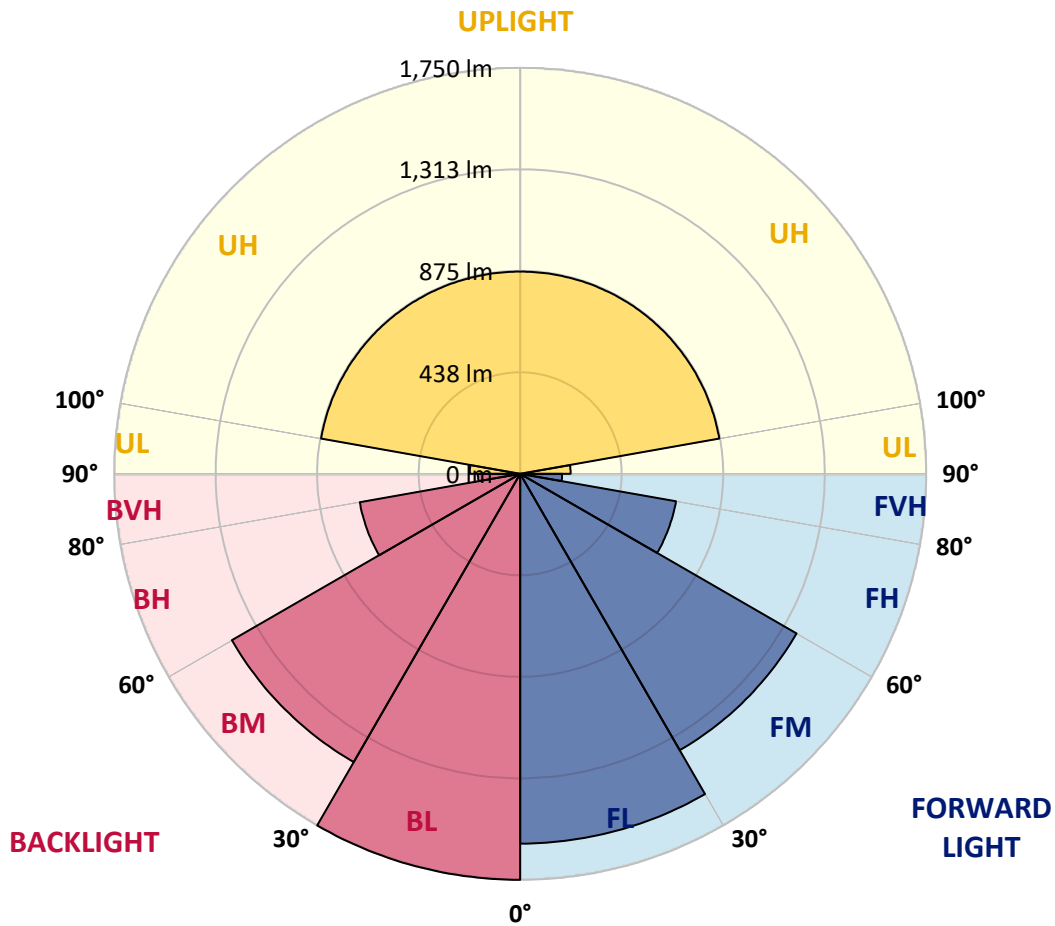
CATALOG NUMBER: CRTK2-C01H-5TLD-U-T5R-7050-RMARROA5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.9	17.7			
FM (30°-60°)	1375.6	15.3			
FH (60°-80°)	682.0	7.6			G1/1800
FVH (80°-90°)	181.0	2.0			G2/225
BL (0°-30°)	1750.1	19.5	B3/2500		
BM (30°-60°)	1434.9	16.0	B2/2500		
BH (60°-80°)	702.0	7.8	B2/1000		G1/1800
BVH (80°-90°)	182.1	2.0			G2/225
UL (90°-100°)	217.6	2.4		U3/500	
UH (100°-180°)	871.6	9.7		U4/1000	

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

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7
2.5°	9301.7	9315.2	9318.6	9301.7	9190.1	9132.6	9071.7	8949.9	8977.0	8960.1	8963.4
5°	8435.8	8489.9	8405.3	8381.7	8212.5	8087.4	7965.6	7833.7	7803.3	7749.1	7769.4
7.5°	7860.8	7891.2	7752.5	7610.5	7339.9	7147.1	6944.1	6741.2	6589.0	6531.5	6555.1
10°	6545.0	6646.5	6507.8	6362.4	6105.3	5875.3	5662.2	5462.6	5323.9	5280.0	5286.7
12.5°	5564.1	5621.6	5503.2	5405.1	5117.6	4897.8	4701.6	4515.5	4403.9	4356.6	4356.6
15°	4914.7	4938.3	4847.0	4657.6	4441.1	4241.6	4075.8	3940.5	3849.2	3832.3	3839.1
17.5°	4424.2	4424.2	4332.9	4184.1	4018.3	3842.4	3727.4	3626.0	3585.4	3598.9	3602.3
20°	4055.5	4058.9	3977.7	3832.3	3690.2	3531.3	3436.5	3365.5	3341.8	3365.5	3368.9
22.5°	3707.1	3724.1	3636.1	3527.9	3372.3	3247.1	3169.3	3091.5	3078.0	3088.2	3088.2
25°	2682.3	2682.3	2651.8	2567.3	2601.1	2614.6	2705.9	2902.1	2861.5	2898.7	2895.4
27.5°	2313.6	2327.1	2266.2	2191.8	2114.0	2022.7	2005.8	1988.9	1972.0	2049.8	2076.8
30°	2043.0	2049.8	1999.0	1948.3	1884.0	1833.3	1819.7	1819.7	1802.8	1863.7	1860.3
32.5°	1785.9	1775.8	1762.2	1714.9	1674.3	1630.3	1640.5	1633.7	1633.7	1687.8	1691.2
35°	1583.0	1579.6	1569.4	1535.6	1495.0	1461.2	1471.4	1478.1	1474.7	1508.6	1508.6
37.5°	1434.2	1437.5	1430.8	1417.2	1376.6	1349.6	1356.4	1349.6	1359.7	1383.4	1383.4
40°	1288.7	1288.7	1292.1	1288.7	1261.6	1251.5	1271.8	1261.6	1285.3	1302.2	1295.5
42.5°	1150.0	1153.4	1160.2	1153.4	1136.5	1126.3	1136.5	1139.9	1173.7	1197.4	1194.0
45°	1062.1	1062.1	1065.5	1062.1	1048.6	1038.4	1038.4	1028.3	1051.9	1065.5	1062.1
47.5°	1004.6	1004.6	1011.3	1008.0	1001.2	991.1	984.3	970.8	980.9	991.1	980.9
50°	984.3	984.3	997.8	997.8	994.4	984.3	974.1	957.2	960.6	967.4	953.8
52.5°	1014.7	1014.7	1038.4	1048.6	1048.6	1031.6	1018.1	994.4	994.4	1001.2	980.9
55°	1079.0	1079.0	1116.2	1136.5	1139.9	1139.9	1123.0	1099.3	1102.7	1116.2	1095.9
57.5°	1055.3	1058.7	1089.1	1116.2	1133.1	1143.3	1143.3	1129.7	1139.9	1173.7	1163.6
60°	943.7	950.5	970.8	994.4	1024.9	1035.0	1035.0	1031.6	1048.6	1089.1	1089.1
62.5°	838.8	842.2	852.4	872.7	889.6	896.3	896.3	882.8	903.1	923.4	916.6
65°	757.7	754.3	774.6	791.5	801.6	811.8	801.6	788.1	798.3	811.8	808.4
67.5°	690.0	690.0	706.9	720.5	727.2	737.4	730.6	723.8	737.4	744.1	737.4
70°	625.7	629.1	642.7	652.8	659.6	669.7	659.6	656.2	669.7	676.5	673.1
72.5°	561.5	564.9	575.0	588.5	595.3	598.7	595.3	591.9	602.1	608.8	608.8
75°	504.0	507.4	514.1	527.7	527.7	534.4	531.0	527.7	537.8	544.6	544.6
77.5°	449.9	456.6	460.0	470.2	473.5	476.9	473.5	473.5	480.3	487.1	490.5
80°	402.5	405.9	409.3	419.4	419.4	422.8	419.4	419.4	426.2	436.3	436.3
82.5°	358.5	361.9	365.3	372.1	368.7	372.1	372.1	372.1	378.8	389.0	389.0
85°	314.6	321.3	321.3	328.1	328.1	328.1	328.1	331.5	334.9	345.0	345.0
87.5°	277.4	280.7	284.1	287.5	287.5	290.9	290.9	294.3	297.7	304.4	307.8
90°	240.2	243.5	246.9	246.9	246.9	250.3	250.3	253.7	257.1	263.8	267.2
92.5°	213.1	216.5	216.5	219.9	219.9	219.9	223.2	226.6	230.0	236.8	236.8
95°	189.4	192.8	192.8	192.8	192.8	196.2	196.2	199.6	202.9	209.7	209.7
97.5°	169.1	169.1	169.1	169.1	169.1	172.5	172.5	175.9	179.3	182.7	182.7
100°	148.8	148.8	148.8	148.8	148.8	148.8	148.8	152.2	152.2	159.0	159.0
102.5°	131.9	131.9	128.5	128.5	128.5	125.1	125.1	128.5	128.5	131.9	131.9
105°	118.4	118.4	118.4	118.4	115.0	115.0	115.0	115.0	115.0	118.4	118.4
107.5°	115.0	115.0	111.6	111.6	111.6	108.2	108.2	108.2	108.2	111.6	111.6
110°	111.6	111.6	111.6	111.6	108.2	108.2	104.9	104.9	104.9	108.2	108.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	115.0	115.0	115.0	111.6	111.6	108.2	108.2	108.2	108.2	108.2	111.6
115°	121.8	118.4	118.4	118.4	118.4	115.0	111.6	111.6	115.0	115.0	115.0
117.5°	131.9	128.5	128.5	131.9	128.5	125.1	121.8	121.8	125.1	125.1	128.5
120°	145.4	142.1	145.4	145.4	145.4	142.1	138.7	135.3	138.7	142.1	142.1
122.5°	162.4	159.0	162.4	165.7	165.7	162.4	155.6	155.6	159.0	162.4	165.7
125°	182.7	182.7	186.0	189.4	192.8	186.0	182.7	179.3	186.0	189.4	189.4
127.5°	206.3	202.9	209.7	219.9	223.2	216.5	209.7	206.3	213.1	219.9	219.9
130°	230.0	226.6	236.8	246.9	253.7	246.9	240.2	236.8	243.5	250.3	250.3
132.5°	250.3	246.9	260.4	274.0	280.7	277.4	270.6	263.8	274.0	280.7	277.4
135°	267.2	267.2	284.1	297.7	304.4	301.0	294.3	287.5	301.0	307.8	301.0
137.5°	277.4	277.4	297.7	311.2	317.9	317.9	314.6	307.8	321.3	324.7	314.6
140°	277.4	280.7	297.7	311.2	314.6	317.9	317.9	314.6	328.1	328.1	317.9
142.5°	267.2	270.6	287.5	301.0	304.4	307.8	311.2	307.8	317.9	317.9	311.2
145°	250.3	253.7	270.6	284.1	284.1	287.5	294.3	290.9	297.7	301.0	294.3
147.5°	226.6	230.0	243.5	250.3	253.7	260.4	267.2	267.2	270.6	274.0	270.6
150°	196.2	196.2	206.3	213.1	216.5	223.2	230.0	233.4	233.4	236.8	233.4
152.5°	155.6	155.6	162.4	169.1	172.5	182.7	186.0	189.4	192.8	196.2	192.8
155°	118.4	118.4	121.8	125.1	128.5	138.7	142.1	145.4	148.8	152.2	148.8
157.5°	84.6	84.6	87.9	91.3	94.7	101.5	104.9	108.2	108.2	111.6	111.6
160°	54.1	57.5	57.5	60.9	60.9	67.6	71.0	71.0	74.4	77.8	77.8
162.5°	27.1	30.4	30.4	33.8	37.2	40.6	44.0	44.0	47.4	47.4	47.4
165°	6.8	10.1	10.1	13.5	13.5	16.9	20.3	20.3	23.7	23.7	23.7
167.5°	0.0	3.4	3.4	3.4	3.4	3.4	3.4	6.8	6.8	6.8	6.8
170°	0.0	0.0	0.0	0.0	3.4	0.0	0.0	3.4	3.4	3.4	3.4
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°	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7	9991.7
2.5°	9054.8	9048.0	9234.0	9382.9	9558.7	9697.4	9832.7	9961.3	10012.0	10008.6	10012.0
5°	7860.8	7979.2	8222.7	8462.8	8747.0	9014.2	9264.5	9430.2	9535.1	9535.1	9545.2
7.5°	6663.4	6852.8	7153.8	7536.1	7962.2	8310.6	8733.4	9031.1	9267.9	9261.1	9305.1
10°	5381.4	5530.3	5831.3	6240.6	6710.7	7113.3	7481.9	7759.3	7989.3	7975.8	8033.3
12.5°	4420.8	4525.7	4786.1	5158.2	5587.8	5976.8	6338.7	6555.1	6717.5	6714.1	6744.6
15°	3856.0	3964.2	4133.3	4390.4	4745.5	5090.6	5452.5	5648.7	5740.0	5729.8	5780.6
17.5°	3626.0	3669.9	3774.8	3947.3	4204.4	4485.1	4772.6	4941.7	5046.6	5033.1	5070.3
20°	3379.0	3419.6	3490.7	3619.2	3801.9	4014.9	4258.5	4444.5	4522.3	4518.9	4542.6
22.5°	3094.9	3115.2	3193.0	3294.5	3426.4	3598.9	3784.9	3954.1	4031.9	4028.5	4052.2
25°	2898.7	2932.6	2979.9	3040.8	3132.1	3267.4	3423.0	3541.4	3612.4	3605.7	3636.1
27.5°	2117.4	2151.2	2174.9	2212.1	2215.5	2327.1	2381.2	2479.3	2543.6	2540.2	2560.5
30°	1860.3	1867.1	1887.4	1938.1	1968.6	2056.5	2164.8	2239.2	2293.3	2313.6	2327.1
32.5°	1698.0	1718.3	1742.0	1765.6	1802.8	1857.0	1941.5	2009.2	2066.7	2076.8	2100.5
35°	1511.9	1525.5	1542.4	1566.1	1589.7	1633.7	1698.0	1752.1	1796.1	1813.0	1826.5
37.5°	1380.0	1383.4	1400.3	1427.4	1447.7	1484.9	1542.4	1583.0	1626.9	1630.3	1643.9
40°	1292.1	1295.5	1312.4	1336.1	1359.7	1383.4	1434.2	1471.4	1501.8	1505.2	1515.3
42.5°	1190.6	1200.8	1207.5	1217.7	1234.6	1254.9	1298.9	1319.1	1339.4	1342.8	1356.4
45°	1051.9	1055.3	1062.1	1072.2	1092.5	1112.8	1143.3	1166.9	1180.5	1180.5	1177.1
47.5°	974.1	977.5	977.5	991.1	1008.0	1028.3	1055.3	1075.6	1082.4	1082.4	1082.4
50°	947.1	947.1	940.3	950.5	967.4	980.9	1008.0	1024.9	1028.3	1031.6	1035.0
52.5°	967.4	960.6	940.3	950.5	967.4	980.9	1008.0	1014.7	1014.7	1021.5	1024.9
55°	1079.0	1068.8	1028.3	1035.0	1055.3	1072.2	1092.5	1095.9	1102.7	1112.8	1109.4
57.5°	1150.0	1156.8	1109.4	1119.6	1156.8	1170.3	1194.0	1190.6	1204.1	1217.7	1221.1
60°	1082.4	1102.7	1065.5	1079.0	1123.0	1129.7	1153.4	1139.9	1160.2	1160.2	1160.2
62.5°	920.0	926.8	906.5	926.8	967.4	967.4	984.3	974.1	980.9	974.1	977.5
65°	805.0	801.6	778.0	805.0	818.5	825.3	838.8	842.2	842.2	835.5	835.5
67.5°	734.0	727.2	706.9	713.7	727.2	730.6	750.9	754.3	750.9	750.9	754.3
70°	669.7	659.6	639.3	642.7	652.8	656.2	673.1	679.9	676.5	673.1	676.5
72.5°	605.5	595.3	575.0	575.0	585.2	591.9	605.5	612.2	605.5	605.5	608.8
75°	544.6	534.4	514.1	514.1	520.9	524.3	541.2	544.6	541.2	537.8	541.2
77.5°	490.5	483.7	463.4	463.4	466.8	470.2	480.3	483.7	480.3	476.9	480.3
80°	439.7	429.6	416.0	412.7	416.0	416.0	426.2	429.6	422.8	422.8	426.2
82.5°	392.4	382.2	368.7	368.7	365.3	368.7	375.4	378.8	375.4	372.1	375.4
85°	348.4	341.6	328.1	324.7	324.7	324.7	331.5	331.5	328.1	328.1	328.1
87.5°	307.8	301.0	287.5	287.5	284.1	287.5	290.9	290.9	287.5	287.5	287.5
90°	267.2	260.4	250.3	250.3	246.9	250.3	253.7	253.7	250.3	250.3	250.3
92.5°	236.8	233.4	223.2	223.2	219.9	223.2	223.2	223.2	219.9	219.9	219.9
95°	209.7	206.3	199.6	196.2	196.2	196.2	196.2	196.2	192.8	192.8	192.8
97.5°	182.7	179.3	172.5	172.5	169.1	172.5	172.5	172.5	169.1	169.1	169.1
100°	159.0	155.6	152.2	152.2	148.8	148.8	148.8	148.8	148.8	148.8	148.8
102.5°	131.9	131.9	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
105°	118.4	118.4	118.4	118.4	121.8	121.8	121.8	118.4	118.4	118.4	118.4
107.5°	111.6	111.6	111.6	115.0	115.0	115.0	118.4	111.6	108.2	108.2	108.2
110°	108.2	108.2	111.6	111.6	115.0	115.0	118.4	104.9	101.5	101.5	101.5



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	111.6	111.6	111.6	115.0	118.4	118.4	121.8	104.9	101.5	101.5	101.5
115°	118.4	118.4	118.4	121.8	125.1	128.5	128.5	111.6	104.9	104.9	108.2
117.5°	128.5	128.5	128.5	131.9	138.7	138.7	138.7	118.4	115.0	115.0	115.0
120°	142.1	145.4	145.4	148.8	155.6	159.0	152.2	135.3	115.0	125.1	125.1
122.5°	162.4	165.7	169.1	172.5	182.7	182.7	172.5	155.6	125.1	138.7	142.1
125°	189.4	192.8	196.2	202.9	213.1	213.1	199.6	175.9	142.1	155.6	159.0
127.5°	216.5	223.2	226.6	236.8	250.3	250.3	233.4	202.9	159.0	169.1	172.5
130°	246.9	253.7	260.4	274.0	290.9	284.1	270.6	230.0	172.5	179.3	179.3
132.5°	274.0	284.1	287.5	307.8	324.7	317.9	301.0	246.9	179.3	179.3	175.9
135°	294.3	301.0	304.4	324.7	341.6	331.5	311.2	253.7	175.9	169.1	169.1
137.5°	307.8	314.6	317.9	331.5	345.0	328.1	301.0	240.2	169.1	165.7	162.4
140°	314.6	314.6	314.6	324.7	331.5	311.2	277.4	216.5	152.2	159.0	159.0
142.5°	307.8	304.4	301.0	307.8	311.2	287.5	257.1	192.8	138.7	145.4	145.4
145°	290.9	284.1	280.7	284.1	284.1	257.1	223.2	165.7	121.8	125.1	125.1
147.5°	267.2	257.1	250.3	250.3	246.9	219.9	189.4	138.7	104.9	101.5	101.5
150°	230.0	219.9	213.1	213.1	202.9	179.3	152.2	108.2	84.6	84.6	84.6
152.5°	189.4	179.3	172.5	172.5	162.4	138.7	115.0	81.2	64.3	64.3	64.3
155°	148.8	138.7	131.9	128.5	121.8	104.9	84.6	60.9	47.4	47.4	47.4
157.5°	111.6	104.9	98.1	94.7	87.9	77.8	60.9	44.0	30.4	33.8	33.8
160°	77.8	71.0	67.6	64.3	60.9	50.7	40.6	27.1	16.9	16.9	16.9
162.5°	47.4	44.0	44.0	40.6	37.2	33.8	23.7	13.5	6.8	6.8	6.8
165°	23.7	23.7	20.3	20.3	16.9	13.5	10.1	3.4	0.0	0.0	0.0
167.5°	6.8	6.8	6.8	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0
170°	3.4	3.4	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)