

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: P691643

Luminaire Tested: **CRTK2-C018-5TLD-U-T5R-7050-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691643  
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-C018-5TLD-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**

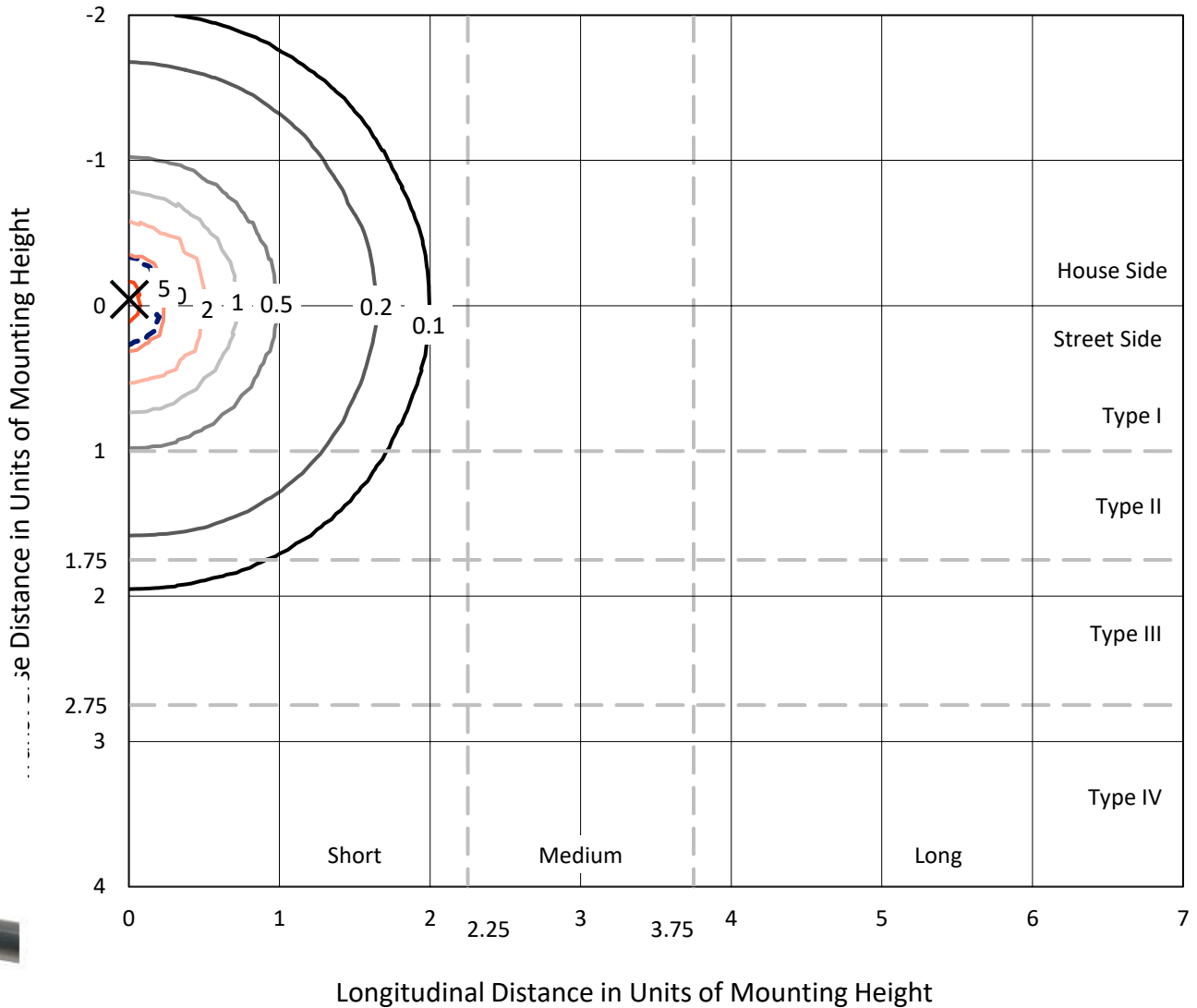
Lumens per Lamp: N/A  
Luminaire Lumens: 7093 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type V - Short  
BUG Rating: B3 - U4 - G2  
  
Input Watts (W): 53.7  
Input Voltage (V): NR  
Input Current (Ain): 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

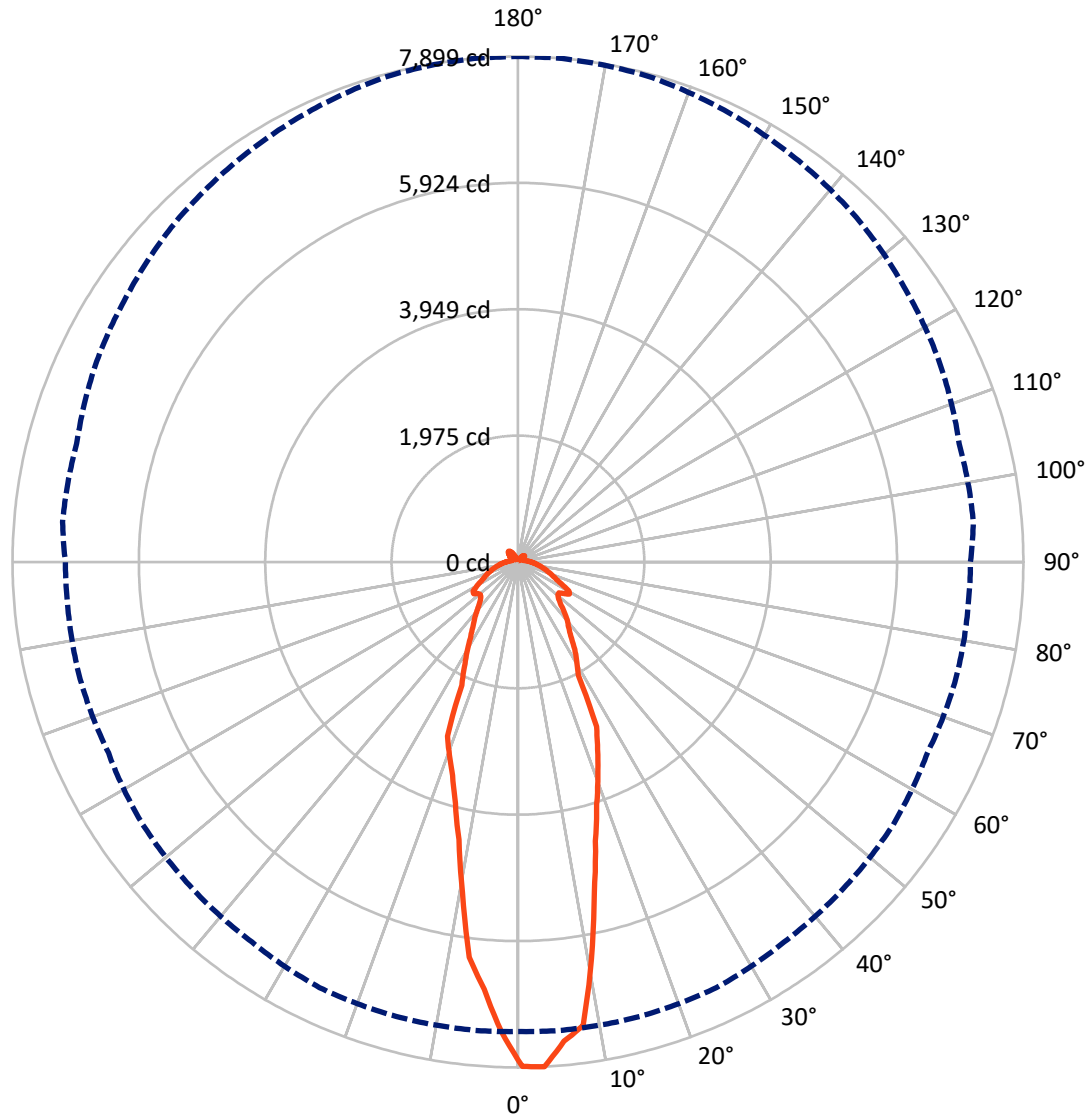
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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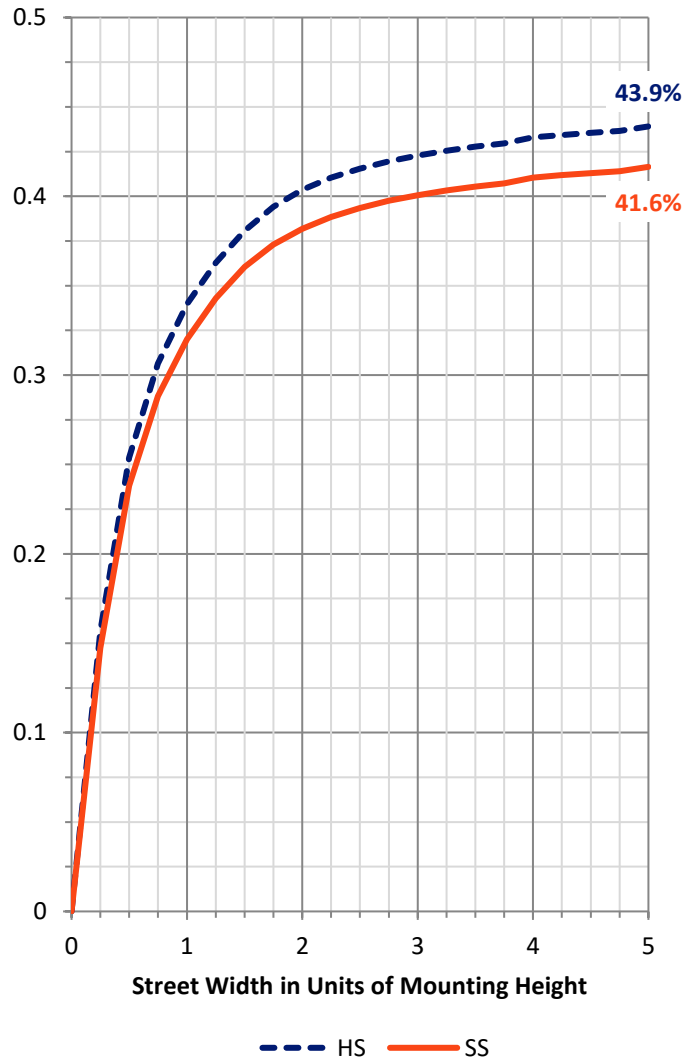
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3210.2	424.1	3634.3
	% Fixture	45.3	6.0	51.2
<b>Street Side</b>	Lumens	3023.5	435.3	3458.7
	% Fixture	42.6	6.1	48.8
<b>Total</b>	Lumens	6233.7	859.3	7093.0
	% Fixture	87.9	12.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.8	8.3
10°-20°	1030.0	14.5
20°-30°	1021.3	14.4
30°-40°	787.3	11.1
40°-50°	675.0	9.5
50°-60°	754.9	10.6
60°-70°	646.8	9.1
70°-80°	445.1	6.3
80°-90°	286.5	4.0
90°-100°	171.7	2.4
100°-110°	102.1	1.4
110°-120°	94.5	1.3
120°-130°	134.9	1.9
130°-140°	174.3	2.5
140°-150°	129.1	1.8
150°-160°	47.2	0.7
160°-170°	5.5	0.1
170°-180°	0.0	0.0
0°-90°	6233.7	87.9
0°-180°	7093.0	100.0



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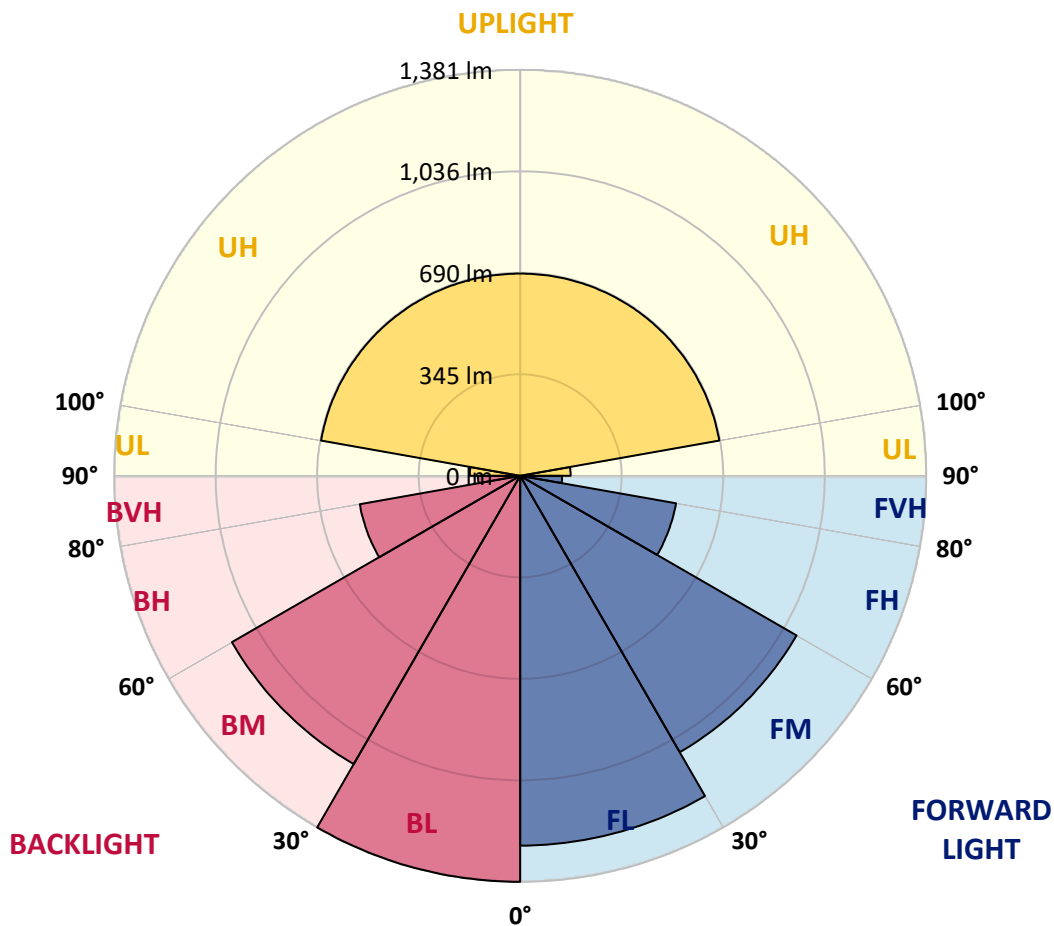
CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-RMARROA5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1257.5	17.7			
FM (30°-60°)	1085.2	15.3			
FH (60°-80°)	538.0	7.6			G0/660
FVH (80°-90°)	142.8	2.0			G2/225
BL (0°-30°)	1380.7	19.5	B3/2500		
BM (30°-60°)	1132.0	16.0	B2/2500		
BH (60°-80°)	553.8	7.8	B2/1000		G0/660
BVH (80°-90°)	143.7	2.0			G2/225
UL (90°-100°)	171.7	2.4		U3/500	
UH (100°-180°)	687.7	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°	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5
2.5°	7338.1	7348.8	7351.4	7338.1	7250.0	7204.7	7156.6	7060.6	7081.9	7068.6	7071.3
5°	6655.0	6697.7	6631.0	6612.3	6478.9	6380.1	6284.1	6180.0	6156.0	6113.3	6129.3
7.5°	6201.4	6225.4	6116.0	6003.9	5790.4	5638.3	5478.2	5318.1	5198.0	5152.7	5171.4
10°	5163.4	5243.4	5134.0	5019.3	4816.5	4635.0	4466.9	4309.5	4200.1	4165.4	4170.7
12.5°	4389.5	4434.9	4341.5	4264.1	4037.3	3863.8	3709.1	3562.3	3474.3	3436.9	3436.9
15°	3877.2	3895.9	3823.8	3674.4	3503.6	3346.2	3215.4	3108.7	3036.6	3023.3	3028.6
17.5°	3490.3	3490.3	3418.2	3300.8	3170.1	3031.3	2940.6	2860.5	2828.5	2839.2	2841.8
20°	3199.4	3202.1	3138.0	3023.3	2911.2	2785.8	2711.1	2655.1	2636.4	2655.1	2657.7
22.5°	2924.6	2937.9	2868.5	2783.1	2660.4	2561.7	2500.3	2438.9	2428.2	2436.2	2436.2
25°	2116.0	2116.0	2092.0	2025.3	2052.0	2062.7	2134.7	2289.5	2257.5	2286.8	2284.1
27.5°	1825.2	1835.9	1787.8	1729.1	1667.7	1595.7	1582.4	1569.0	1555.7	1617.0	1638.4
30°	1611.7	1617.0	1577.0	1537.0	1486.3	1446.3	1435.6	1435.6	1422.3	1470.3	1467.6
32.5°	1408.9	1400.9	1390.2	1352.9	1320.9	1286.2	1294.2	1288.8	1288.8	1331.5	1334.2
35°	1248.8	1246.1	1238.1	1211.5	1179.4	1152.7	1160.8	1166.1	1163.4	1190.1	1190.1
37.5°	1131.4	1134.1	1128.7	1118.1	1086.0	1064.7	1070.0	1064.7	1072.7	1091.4	1091.4
40°	1016.7	1016.7	1019.3	1016.7	995.3	987.3	1003.3	995.3	1014.0	1027.3	1022.0
42.5°	907.3	909.9	915.3	909.9	896.6	888.6	896.6	899.3	925.9	944.6	941.9
45°	837.9	837.9	840.5	837.9	827.2	819.2	819.2	811.2	829.9	840.5	837.9
47.5°	792.5	792.5	797.9	795.2	789.8	781.8	776.5	765.8	773.8	781.8	773.8
50°	776.5	776.5	787.2	787.2	784.5	776.5	768.5	755.2	757.8	763.2	752.5
52.5°	800.5	800.5	819.2	827.2	827.2	813.9	803.2	784.5	784.5	789.8	773.8
55°	851.2	851.2	880.6	896.6	899.3	899.3	885.9	867.2	869.9	880.6	864.6
57.5°	832.5	835.2	859.2	880.6	893.9	901.9	901.9	891.2	899.3	925.9	917.9
60°	744.5	749.8	765.8	784.5	808.5	816.5	816.5	813.9	827.2	859.2	859.2
62.5°	661.8	664.4	672.4	688.4	701.8	707.1	707.1	696.5	712.5	728.5	723.1
65°	597.7	595.1	611.1	624.4	632.4	640.4	632.4	621.7	629.7	640.4	637.7
67.5°	544.4	544.4	557.7	568.4	573.7	581.7	576.4	571.0	581.7	587.0	581.7
70°	493.7	496.3	507.0	515.0	520.3	528.3	520.3	517.7	528.3	533.7	531.0
72.5°	443.0	445.6	453.6	464.3	469.6	472.3	469.6	467.0	475.0	480.3	480.3
75°	397.6	400.3	405.6	416.3	416.3	421.6	418.9	416.3	424.3	429.6	429.6
77.5°	354.9	360.2	362.9	370.9	373.6	376.2	373.6	373.6	378.9	384.2	386.9
80°	317.5	320.2	322.9	330.9	330.9	333.5	330.9	330.9	336.2	344.2	344.2
82.5°	282.9	285.5	288.2	293.5	290.9	293.5	293.5	293.5	298.9	306.9	306.9
85°	248.2	253.5	253.5	258.8	258.8	258.8	258.8	261.5	264.2	272.2	272.2
87.5°	218.8	221.5	224.1	226.8	226.8	229.5	229.5	232.2	234.8	240.2	242.8
90°	189.5	192.1	194.8	194.8	194.8	197.5	197.5	200.1	202.8	208.1	210.8
92.5°	168.1	170.8	170.8	173.4	173.4	173.4	176.1	178.8	181.5	186.8	186.8
95°	149.4	152.1	152.1	152.1	152.1	154.8	154.8	157.4	160.1	165.4	165.4
97.5°	133.4	133.4	133.4	133.4	133.4	136.1	136.1	138.8	141.4	144.1	144.1
100°	117.4	117.4	117.4	117.4	117.4	117.4	117.4	120.1	120.1	125.4	125.4
102.5°	104.1	104.1	101.4	101.4	101.4	98.7	98.7	101.4	101.4	104.1	104.1
105°	93.4	93.4	93.4	93.4	90.7	90.7	90.7	90.7	90.7	93.4	93.4
107.5°	90.7	90.7	88.1	88.1	88.1	85.4	85.4	85.4	85.4	88.1	88.1
110°	88.1	88.1	88.1	88.1	85.4	85.4	82.7	82.7	82.7	85.4	85.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.7	90.7	90.7	88.1	88.1	85.4	85.4	85.4	85.4	85.4	88.1
115°	96.1	93.4	93.4	93.4	93.4	90.7	88.1	88.1	90.7	90.7	90.7
117.5°	104.1	101.4	101.4	104.1	101.4	98.7	96.1	96.1	98.7	98.7	101.4
120°	114.7	112.1	114.7	114.7	114.7	112.1	109.4	106.7	109.4	112.1	112.1
122.5°	128.1	125.4	128.1	130.8	130.8	128.1	122.7	122.7	125.4	128.1	130.8
125°	144.1	144.1	146.8	149.4	152.1	146.8	144.1	141.4	146.8	149.4	149.4
127.5°	162.8	160.1	165.4	173.4	176.1	170.8	165.4	162.8	168.1	173.4	173.4
130°	181.5	178.8	186.8	194.8	200.1	194.8	189.5	186.8	192.1	197.5	197.5
132.5°	197.5	194.8	205.5	216.1	221.5	218.8	213.5	208.1	216.1	221.5	218.8
135°	210.8	210.8	224.1	234.8	240.2	237.5	232.2	226.8	237.5	242.8	237.5
137.5°	218.8	218.8	234.8	245.5	250.8	250.8	248.2	242.8	253.5	256.2	248.2
140°	218.8	221.5	234.8	245.5	248.2	250.8	250.8	248.2	258.8	258.8	250.8
142.5°	210.8	213.5	226.8	237.5	240.2	242.8	245.5	242.8	250.8	250.8	245.5
145°	197.5	200.1	213.5	224.1	224.1	226.8	232.2	229.5	234.8	237.5	232.2
147.5°	178.8	181.5	192.1	197.5	200.1	205.5	210.8	210.8	213.5	216.1	213.5
150°	154.8	154.8	162.8	168.1	170.8	176.1	181.5	184.1	184.1	186.8	184.1
152.5°	122.7	122.7	128.1	133.4	136.1	144.1	146.8	149.4	152.1	154.8	152.1
155°	93.4	93.4	96.1	98.7	101.4	109.4	112.1	114.7	117.4	120.1	117.4
157.5°	66.7	66.7	69.4	72.0	74.7	80.1	82.7	85.4	85.4	88.1	88.1
160°	42.7	45.4	45.4	48.0	48.0	53.4	56.0	56.0	58.7	61.4	61.4
162.5°	21.3	24.0	24.0	26.7	29.4	32.0	34.7	34.7	37.4	37.4	37.4
165°	5.3	8.0	8.0	10.7	10.7	13.3	16.0	16.0	18.7	18.7	18.7
167.5°	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.3	5.3	5.3	5.3
170°	0.0	0.0	0.0	0.0	2.7	0.0	0.0	2.7	2.7	2.7	2.7
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°	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5	7882.5
2.5°	7143.3	7138.0	7284.7	7402.1	7540.9	7650.3	7757.0	7858.4	7898.5	7895.8	7898.5
5°	6201.4	6294.8	6486.9	6676.3	6900.5	7111.3	7308.7	7439.5	7522.2	7522.2	7530.2
7.5°	5256.7	5406.2	5643.7	5945.2	6281.4	6556.3	6889.8	7124.6	7311.4	7306.1	7340.8
10°	4245.4	4362.8	4600.3	4923.2	5294.1	5611.6	5902.5	6121.3	6302.8	6292.1	6337.4
12.5°	3487.6	3570.3	3775.8	4069.3	4408.2	4715.1	5000.6	5171.4	5299.4	5296.8	5320.8
15°	3042.0	3127.4	3260.8	3463.6	3743.8	4015.9	4301.5	4456.2	4528.3	4520.3	4560.3
17.5°	2860.5	2895.2	2977.9	3114.0	3316.8	3538.3	3765.1	3898.5	3981.3	3970.6	3999.9
20°	2665.7	2697.8	2753.8	2855.2	2999.3	3167.4	3359.5	3506.3	3567.6	3565.0	3583.7
22.5°	2441.6	2457.6	2519.0	2599.0	2703.1	2839.2	2985.9	3119.4	3180.7	3178.1	3196.7
25°	2286.8	2313.5	2350.9	2398.9	2470.9	2577.7	2700.4	2793.8	2849.9	2844.5	2868.5
27.5°	1670.4	1697.1	1715.8	1745.1	1747.8	1835.9	1878.6	1955.9	2006.6	2004.0	2020.0
30°	1467.6	1473.0	1489.0	1529.0	1553.0	1622.4	1707.8	1766.5	1809.2	1825.2	1835.9
32.5°	1339.5	1355.5	1374.2	1392.9	1422.3	1465.0	1531.7	1585.0	1630.4	1638.4	1657.1
35°	1192.8	1203.4	1216.8	1235.5	1254.1	1288.8	1339.5	1382.2	1416.9	1430.3	1440.9
37.5°	1088.7	1091.4	1104.7	1126.1	1142.1	1171.4	1216.8	1248.8	1283.5	1286.2	1296.8
40°	1019.3	1022.0	1035.3	1054.0	1072.7	1091.4	1131.4	1160.8	1184.8	1187.4	1195.4
42.5°	939.3	947.3	952.6	960.6	974.0	990.0	1024.7	1040.7	1056.7	1059.4	1070.0
45°	829.9	832.5	837.9	845.9	861.9	877.9	901.9	920.6	931.3	931.3	928.6
47.5°	768.5	771.2	771.2	781.8	795.2	811.2	832.5	848.6	853.9	853.9	853.9
50°	747.2	747.2	741.8	749.8	763.2	773.8	795.2	808.5	811.2	813.9	816.5
52.5°	763.2	757.8	741.8	749.8	763.2	773.8	795.2	800.5	800.5	805.9	808.5
55°	851.2	843.2	811.2	816.5	832.5	845.9	861.9	864.6	869.9	877.9	875.2
57.5°	907.3	912.6	875.2	883.2	912.6	923.3	941.9	939.3	950.0	960.6	963.3
60°	853.9	869.9	840.5	851.2	885.9	891.2	909.9	899.3	915.3	915.3	915.3
62.5°	725.8	731.1	715.1	731.1	763.2	763.2	776.5	768.5	773.8	768.5	771.2
65°	635.1	632.4	613.7	635.1	645.8	651.1	661.8	664.4	664.4	659.1	659.1
67.5°	579.0	573.7	557.7	563.0	573.7	576.4	592.4	595.1	592.4	592.4	595.1
70°	528.3	520.3	504.3	507.0	515.0	517.7	531.0	536.3	533.7	531.0	533.7
72.5°	477.6	469.6	453.6	453.6	461.6	467.0	477.6	483.0	477.6	477.6	480.3
75°	429.6	421.6	405.6	405.6	410.9	413.6	426.9	429.6	426.9	424.3	426.9
77.5°	386.9	381.6	365.6	365.6	368.2	370.9	378.9	381.6	378.9	376.2	378.9
80°	346.9	338.9	328.2	325.5	328.2	328.2	336.2	338.9	333.5	333.5	336.2
82.5°	309.5	301.5	290.9	290.9	288.2	290.9	296.2	298.9	296.2	293.5	296.2
85°	274.8	269.5	258.8	256.2	256.2	256.2	261.5	261.5	258.8	258.8	258.8
87.5°	242.8	237.5	226.8	226.8	224.1	226.8	229.5	229.5	226.8	226.8	226.8
90°	210.8	205.5	197.5	197.5	194.8	197.5	200.1	200.1	197.5	197.5	197.5
92.5°	186.8	184.1	176.1	176.1	173.4	176.1	176.1	176.1	173.4	173.4	173.4
95°	165.4	162.8	157.4	154.8	154.8	154.8	154.8	154.8	152.1	152.1	152.1
97.5°	144.1	141.4	136.1	136.1	133.4	136.1	136.1	136.1	133.4	133.4	133.4
100°	125.4	122.7	120.1	120.1	117.4	117.4	117.4	117.4	117.4	117.4	117.4
102.5°	104.1	104.1	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4
105°	93.4	93.4	93.4	93.4	96.1	96.1	96.1	93.4	93.4	93.4	93.4
107.5°	88.1	88.1	88.1	90.7	90.7	90.7	93.4	88.1	85.4	85.4	85.4
110°	85.4	85.4	88.1	88.1	90.7	90.7	93.4	82.7	80.1	80.1	80.1



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	88.1	88.1	88.1	90.7	93.4	93.4	96.1	82.7	80.1	80.1	80.1
115°	93.4	93.4	93.4	96.1	98.7	101.4	101.4	88.1	82.7	82.7	85.4
117.5°	101.4	101.4	101.4	104.1	109.4	109.4	109.4	93.4	90.7	90.7	90.7
120°	112.1	114.7	114.7	117.4	122.7	125.4	120.1	106.7	90.7	98.7	98.7
122.5°	128.1	130.8	133.4	136.1	144.1	144.1	136.1	122.7	98.7	109.4	112.1
125°	149.4	152.1	154.8	160.1	168.1	168.1	157.4	138.8	112.1	122.7	125.4
127.5°	170.8	176.1	178.8	186.8	197.5	197.5	184.1	160.1	125.4	133.4	136.1
130°	194.8	200.1	205.5	216.1	229.5	224.1	213.5	181.5	136.1	141.4	141.4
132.5°	216.1	224.1	226.8	242.8	256.2	250.8	237.5	194.8	141.4	141.4	138.8
135°	232.2	237.5	240.2	256.2	269.5	261.5	245.5	200.1	138.8	133.4	133.4
137.5°	242.8	248.2	250.8	261.5	272.2	258.8	237.5	189.5	133.4	130.8	128.1
140°	248.2	248.2	248.2	256.2	261.5	245.5	218.8	170.8	120.1	125.4	125.4
142.5°	242.8	240.2	237.5	242.8	245.5	226.8	202.8	152.1	109.4	114.7	114.7
145°	229.5	224.1	221.5	224.1	224.1	202.8	176.1	130.8	96.1	98.7	98.7
147.5°	210.8	202.8	197.5	197.5	194.8	173.4	149.4	109.4	82.7	80.1	80.1
150°	181.5	173.4	168.1	168.1	160.1	141.4	120.1	85.4	66.7	66.7	66.7
152.5°	149.4	141.4	136.1	136.1	128.1	109.4	90.7	64.0	50.7	50.7	50.7
155°	117.4	109.4	104.1	101.4	96.1	82.7	66.7	48.0	37.4	37.4	37.4
157.5°	88.1	82.7	77.4	74.7	69.4	61.4	48.0	34.7	24.0	26.7	26.7
160°	61.4	56.0	53.4	50.7	48.0	40.0	32.0	21.3	13.3	13.3	13.3
162.5°	37.4	34.7	34.7	32.0	29.4	26.7	18.7	10.7	5.3	5.3	5.3
165°	18.7	18.7	16.0	16.0	13.3	10.7	8.0	2.7	0.0	0.0	0.0
167.5°	5.3	5.3	5.3	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
170°	2.7	2.7	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)