

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: P691338

Luminaire Tested: **CRTK2-C015-D-U-T3-7050-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C015-D-U-T3-7050-RMARROA5  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3733 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B2 - U3 - G1

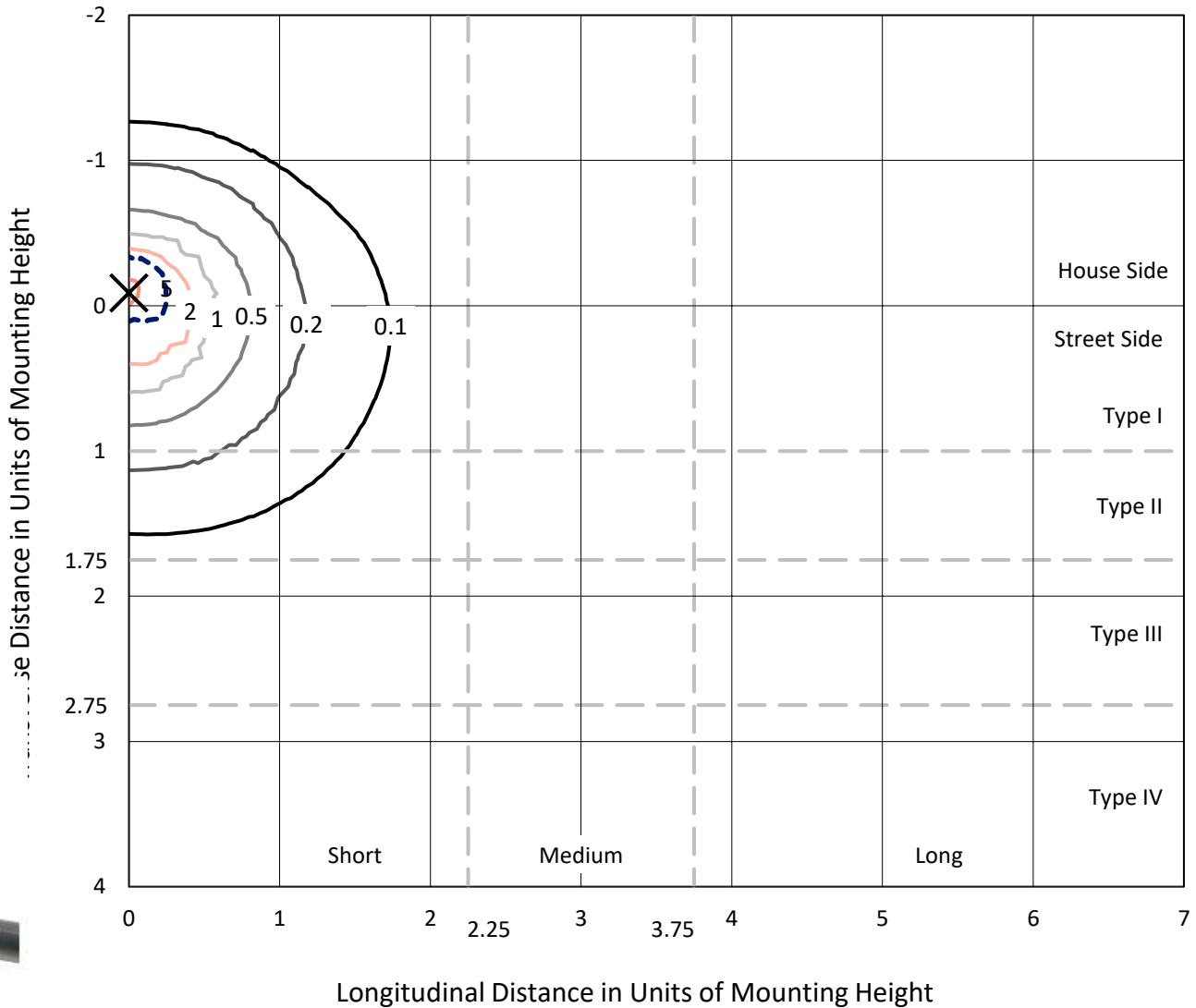
Input Watts (W): 29.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

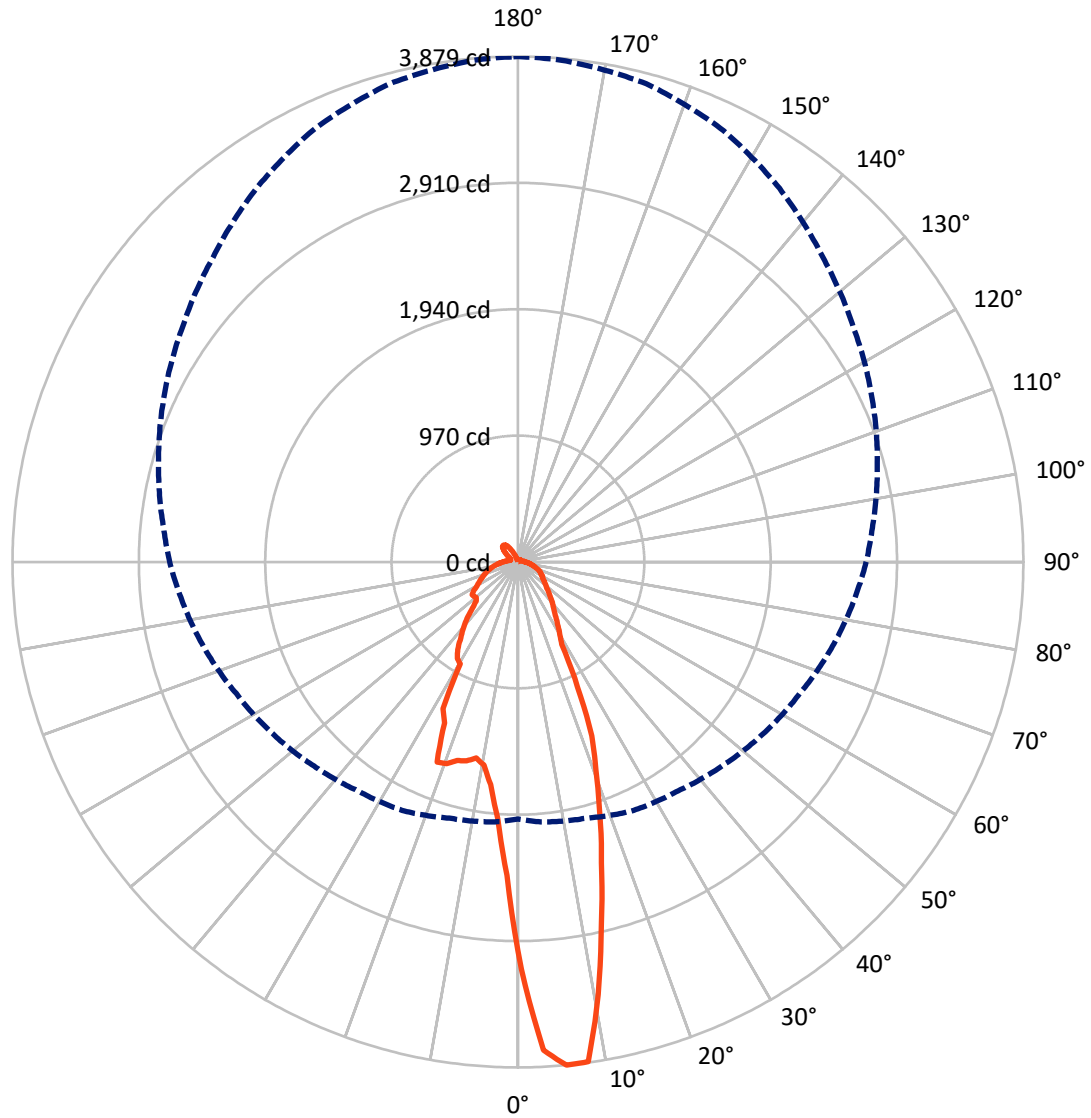
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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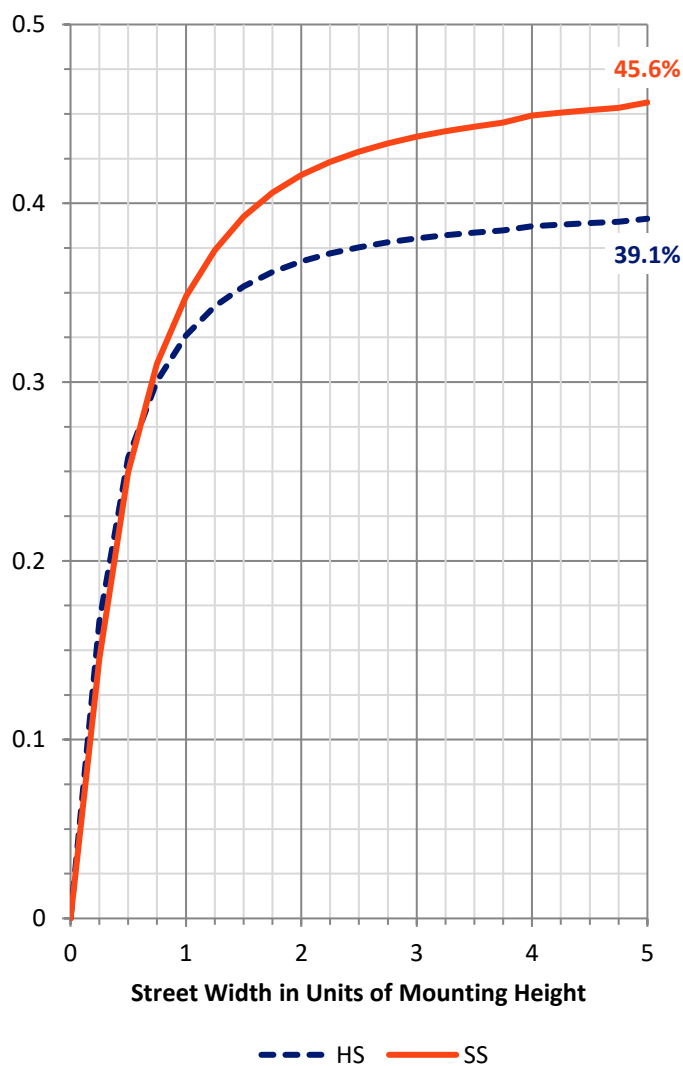
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1500.4	160.9	1661.2
	% Fixture	40.2	4.3	44.5
<b>Street Side</b>	Lumens	1750.9	320.9	2071.8
	% Fixture	46.9	8.6	55.5
<b>Total</b>	Lumens	3251.3	481.7	3733.0
	% Fixture	87.1	12.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.9	6.7
10°-20°	538.2	14.4
20°-30°	592.6	15.9
30°-40°	435.4	11.7
40°-50°	364.8	9.8
50°-60°	366.0	9.8
60°-70°	313.5	8.4
70°-80°	233.6	6.3
80°-90°	156.3	4.2
90°-100°	92.8	2.5
100°-110°	53.9	1.4
110°-120°	50.1	1.3
120°-130°	72.7	1.9
130°-140°	97.8	2.6
140°-150°	79.2	2.1
150°-160°	31.3	0.8
160°-170°	3.8	0.1
170°-180°	0.0	0.0
0°-90°	3251.3	87.1
0°-180°	3733.0	100.0

**Coefficient of Utilization**



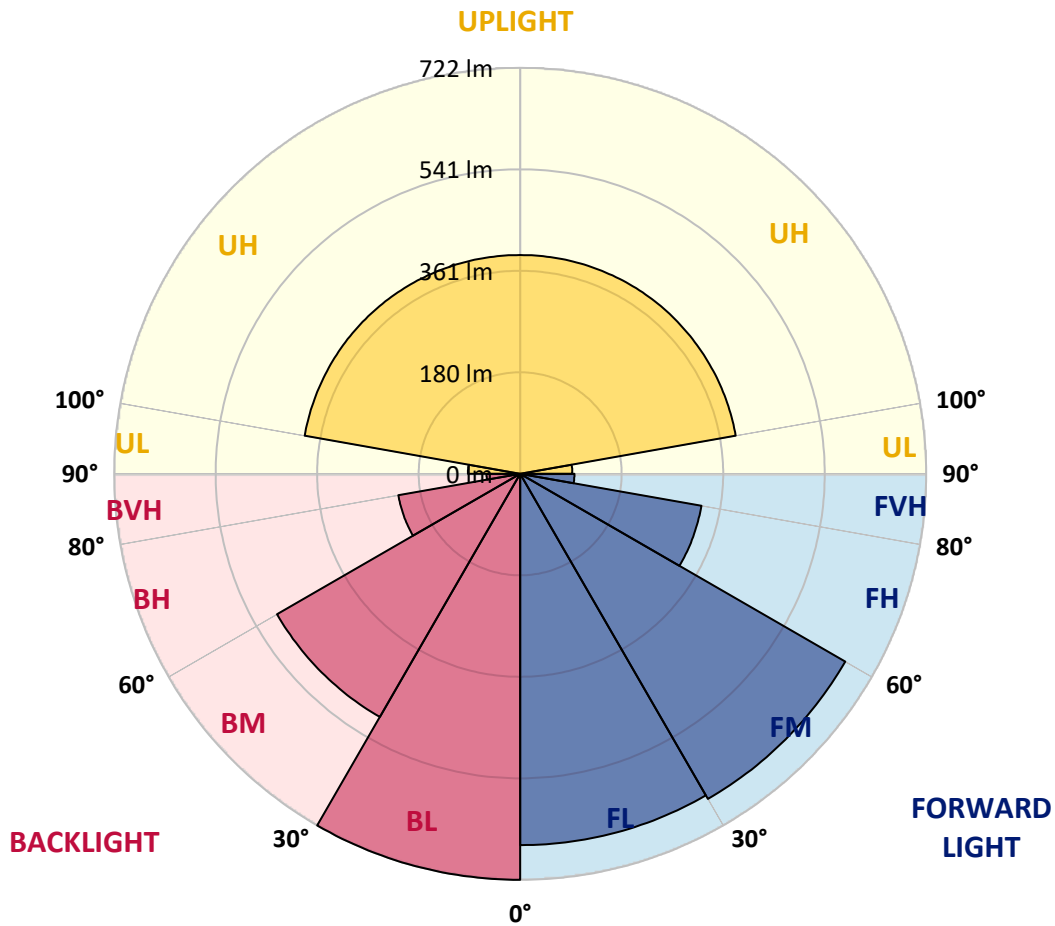
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.0	17.7			
FM (30°-60°)	667.2	17.9			
FH (60°-80°)	327.2	8.8			G0/660
FVH (80°-90°)	96.5	2.6			G1/100
BL (0°-30°)	721.6	19.3	B2/1000		
BM (30°-60°)	499.0	13.4	B1/1000		
BH (60°-80°)	219.9	5.9	B1/500		G1/500
BVH (80°-90°)	59.8	1.6			G1/100
UL (90°-100°)	92.8	2.5		U3/500	
UH (100°-180°)	388.9	10.4		U3/500	

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

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9
2.5°	2407.4	2443.0	2460.8	2514.1	2531.9	2566.0	2617.9	2669.8	2757.2	2822.5	2872.9
5°	1973.1	2002.7	2035.3	2103.5	2143.5	2214.7	2297.7	2386.6	2499.3	2613.5	2672.8
7.5°	1719.6	1727.0	1774.4	1857.4	1930.1	2005.7	2096.1	2173.2	2250.3	2343.7	2403.0
10°	1580.2	1590.6	1621.7	1685.5	1747.7	1810.0	1881.2	1940.4	2019.0	2097.6	2133.2
12.5°	1538.7	1543.2	1569.9	1606.9	1646.9	1687.0	1741.8	1795.2	1864.8	1933.0	1956.8
15°	1575.8	1575.8	1580.2	1595.1	1615.8	1646.9	1688.4	1734.4	1798.1	1848.5	1873.7
17.5°	1593.6	1595.1	1606.9	1609.9	1629.1	1642.5	1679.5	1715.1	1775.9	1817.4	1830.8
20°	1641.0	1641.0	1642.5	1649.9	1652.9	1660.3	1676.6	1695.9	1746.3	1768.5	1765.5
22.5°	1655.8	1649.9	1673.6	1716.6	1715.1	1716.6	1701.8	1706.2	1734.4	1725.5	1704.7
25°	1359.4	1351.9	1378.6	1405.3	1443.8	1492.8	1614.3	1709.2	1744.8	1716.6	1670.7
27.5°	1264.5	1231.9	1224.5	1160.7	1102.9	1008.0	999.1	939.8	933.9	971.0	1005.1
30°	898.3	899.8	898.3	892.4	888.0	892.4	896.8	886.5	889.4	913.2	902.8
32.5°	876.1	876.1	870.2	867.2	853.9	849.4	842.0	822.7	825.7	843.5	839.0
35°	816.8	813.8	815.3	807.9	784.2	764.9	761.9	745.6	745.6	756.0	751.6
37.5°	727.9	723.4	741.2	739.7	720.4	713.0	705.6	695.2	695.2	704.1	695.2
40°	658.2	655.2	674.5	680.4	668.6	671.5	673.0	664.1	673.0	674.5	662.6
42.5°	584.1	582.6	598.9	597.4	587.0	585.5	584.1	578.1	593.0	604.8	595.9
45°	496.6	492.2	504.0	508.5	505.5	501.0	499.6	499.6	508.5	514.4	505.5
47.5°	438.8	440.3	449.2	459.5	462.5	465.5	464.0	461.0	467.0	468.4	461.0
50°	419.5	421.0	434.3	446.2	455.1	461.0	461.0	456.6	461.0	456.6	446.2
52.5°	428.4	428.4	446.2	464.0	478.8	489.2	490.7	484.7	484.7	472.9	456.6
55°	431.4	434.3	458.1	487.7	514.4	542.6	555.9	551.4	555.9	530.7	504.0
57.5°	403.2	410.6	434.3	469.9	505.5	550.0	578.1	581.1	579.6	557.4	524.8
60°	366.2	372.1	388.4	419.5	453.6	489.2	517.4	523.3	529.2	518.8	489.2
62.5°	340.9	343.9	357.3	379.5	403.2	422.5	432.9	431.4	437.3	434.3	412.1
65°	318.7	320.2	335.0	352.8	367.6	386.9	389.9	389.9	394.3	388.4	370.6
67.5°	295.0	295.0	306.9	323.2	340.9	357.3	361.7	363.2	369.1	363.2	349.8
70°	274.2	274.2	284.6	298.0	311.3	327.6	332.1	333.5	340.9	333.5	320.2
72.5°	255.0	255.0	263.9	275.7	287.6	300.9	305.4	306.9	312.8	305.4	295.0
75°	234.2	235.7	243.1	253.5	263.9	275.7	281.7	281.7	286.1	277.2	268.3
77.5°	213.5	214.9	222.4	231.3	240.1	252.0	255.0	256.5	260.9	252.0	243.1
80°	192.7	195.7	201.6	209.0	217.9	226.8	232.7	232.7	235.7	226.8	220.9
82.5°	173.4	176.4	180.9	186.8	195.7	204.6	210.5	210.5	212.0	204.6	197.2
85°	154.2	157.1	161.6	166.0	173.4	182.3	188.3	188.3	189.7	182.3	176.4
87.5°	136.4	139.3	142.3	146.8	152.7	161.6	167.5	167.5	167.5	161.6	155.7
90°	118.6	120.1	123.0	127.5	133.4	140.8	145.3	146.8	146.8	139.3	136.4
92.5°	105.2	105.2	108.2	111.2	117.1	123.0	127.5	129.0	129.0	124.5	120.1
95°	90.4	91.9	93.4	96.4	100.8	105.2	111.2	111.2	111.2	108.2	105.2
97.5°	80.0	78.6	80.0	81.5	86.0	88.9	93.4	94.9	94.9	91.9	90.4
100°	68.2	69.7	69.7	71.2	72.6	74.1	77.1	78.6	78.6	77.1	77.1
102.5°	63.7	62.3	62.3	62.3	62.3	62.3	63.7	63.7	65.2	63.7	62.3
105°	59.3	59.3	59.3	59.3	57.8	57.8	57.8	57.8	56.3	54.8	54.8
107.5°	57.8	57.8	57.8	57.8	56.3	56.3	54.8	54.8	53.4	51.9	50.4
110°	57.8	57.8	57.8	57.8	56.3	54.8	54.8	53.4	51.9	50.4	48.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	60.8	60.8	60.8	60.8	57.8	56.3	54.8	54.8	51.9	50.4	48.9
115°	66.7	66.7	65.2	65.2	63.7	60.8	59.3	57.8	56.3	53.4	51.9
117.5°	72.6	72.6	72.6	72.6	71.2	68.2	65.2	63.7	62.3	57.8	56.3
120°	83.0	83.0	83.0	84.5	81.5	78.6	75.6	72.6	71.2	66.7	63.7
122.5°	96.4	94.9	97.8	99.3	97.8	93.4	88.9	86.0	83.0	77.1	74.1
125°	109.7	109.7	112.7	117.1	117.1	112.7	106.7	102.3	99.3	90.4	86.0
127.5°	126.0	126.0	130.5	137.9	139.3	134.9	129.0	123.0	118.6	106.7	102.3
130°	140.8	140.8	149.7	158.6	163.1	158.6	152.7	145.3	139.3	126.0	118.6
132.5°	152.7	154.2	164.5	176.4	182.3	180.9	173.4	167.5	161.6	145.3	136.4
135°	164.5	166.0	177.9	192.7	200.1	200.1	194.2	186.8	179.4	161.6	151.2
137.5°	170.5	172.0	186.8	201.6	210.5	213.5	210.5	203.1	195.7	176.4	163.1
140°	170.5	173.4	188.3	203.1	212.0	216.4	216.4	209.0	201.6	183.8	170.5
142.5°	166.0	169.0	182.3	197.2	206.1	212.0	213.5	207.5	200.1	182.3	169.0
145°	157.1	158.6	172.0	185.3	194.2	201.6	204.6	200.1	191.2	176.4	163.1
147.5°	142.3	142.3	154.2	164.5	176.4	183.8	188.3	185.3	177.9	164.5	152.7
150°	121.6	121.6	130.5	140.8	151.2	160.1	164.5	164.5	157.1	146.8	134.9
152.5°	96.4	97.8	103.8	112.7	123.0	130.5	136.4	136.4	131.9	123.0	112.7
155°	74.1	74.1	78.6	84.5	93.4	100.8	105.2	105.2	102.3	94.9	88.9
157.5°	53.4	53.4	56.3	62.3	68.2	74.1	78.6	78.6	75.6	71.2	66.7
160°	35.6	35.6	37.1	41.5	46.0	50.4	53.4	54.8	53.4	50.4	46.0
162.5°	19.3	19.3	20.8	23.7	26.7	31.1	32.6	34.1	34.1	31.1	29.6
165°	5.9	5.9	5.9	8.9	10.4	13.3	14.8	16.3	16.3	16.3	14.8
167.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.0	4.4	4.4	4.4	4.4
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	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°	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9	3124.9
2.5°	2920.3	3030.0	3151.6	3276.1	3403.6	3523.6	3624.4	3704.5	3747.5	3757.9	3751.9
5°	2726.1	2855.1	2997.4	3142.7	3308.7	3499.9	3674.8	3800.8	3866.1	3876.5	3879.4
7.5°	2448.9	2561.6	2700.9	2868.4	3077.4	3282.0	3551.8	3740.1	3845.3	3873.5	3873.5
10°	2156.9	2256.2	2343.7	2490.4	2672.8	2864.0	3093.7	3267.2	3373.9	3408.0	3378.4
12.5°	1992.3	2035.3	2094.6	2202.8	2317.0	2462.3	2660.9	2773.6	2843.2	2864.0	2846.2
15°	1887.1	1909.3	1934.5	1980.5	2060.5	2150.9	2268.1	2337.7	2380.7	2405.9	2397.0
17.5°	1836.7	1836.7	1832.2	1842.6	1863.4	1904.9	1984.9	2010.1	2029.4	2039.8	2033.8
20°	1759.6	1735.9	1716.6	1687.0	1675.1	1673.6	1692.9	1719.6	1718.1	1719.6	1707.7
22.5°	1682.5	1633.6	1586.2	1541.7	1491.3	1466.1	1448.3	1457.2	1449.8	1457.2	1449.8
25°	1645.5	1546.1	1451.3	1343.0	1252.6	1182.9	1137.0	1108.8	1061.4	1079.2	1062.9
27.5°	1021.4	979.9	939.8	859.8	784.2	757.5	735.3	723.4	714.5	719.0	716.0
30°	885.0	850.9	819.8	778.3	720.4	684.9	658.2	634.5	627.1	628.5	627.1
32.5°	821.2	794.6	756.0	713.0	661.1	616.7	585.5	563.3	551.4	558.9	552.9
35°	735.3	708.6	676.0	635.9	591.5	551.4	521.8	501.0	487.7	490.7	489.2
37.5°	678.9	653.7	625.6	582.6	544.0	505.5	475.8	455.1	441.8	444.7	441.8
40°	646.3	618.2	588.5	550.0	511.4	471.4	443.2	419.5	406.2	406.2	406.2
42.5°	579.6	557.4	532.2	492.2	458.1	424.0	395.8	378.0	363.2	364.7	361.7
45°	495.1	478.8	459.5	432.9	404.7	378.0	354.3	340.9	329.1	330.6	329.1
47.5°	452.1	437.3	415.1	394.3	369.1	345.4	324.6	308.3	299.4	300.9	298.0
50°	435.8	418.0	392.8	364.7	340.9	317.2	296.5	284.6	275.7	277.2	275.7
52.5°	441.8	413.6	378.0	343.9	315.7	292.0	275.7	262.4	256.5	257.9	255.0
55°	480.3	431.4	378.0	335.0	299.4	272.8	256.5	241.6	235.7	235.7	235.7
57.5°	493.6	440.3	373.6	324.6	286.1	259.4	240.1	225.3	219.4	219.4	219.4
60°	462.5	416.6	355.8	309.8	274.2	249.0	232.7	222.4	217.9	217.9	217.9
62.5°	395.8	366.2	320.2	283.1	256.5	234.2	217.9	204.6	200.1	198.6	198.6
65°	358.7	330.6	292.0	260.9	237.2	219.4	204.6	194.2	188.3	188.3	188.3
67.5°	335.0	308.3	272.8	243.1	220.9	201.6	188.3	177.9	174.9	173.4	173.4
70°	308.3	283.1	247.6	220.9	200.1	183.8	170.5	161.6	158.6	158.6	157.1
72.5°	281.7	257.9	223.8	198.6	179.4	164.5	152.7	145.3	142.3	140.8	140.8
75°	256.5	232.7	201.6	177.9	160.1	146.8	136.4	129.0	126.0	126.0	126.0
77.5°	232.7	210.5	180.9	158.6	143.8	130.5	121.6	115.6	112.7	112.7	112.7
80°	210.5	188.3	161.6	140.8	126.0	115.6	108.2	102.3	99.3	100.8	99.3
82.5°	186.8	169.0	143.8	124.5	112.7	102.3	94.9	90.4	87.5	88.9	87.5
85°	167.5	149.7	126.0	109.7	97.8	88.9	83.0	78.6	75.6	77.1	75.6
87.5°	148.2	131.9	111.2	96.4	86.0	78.6	71.2	68.2	66.7	66.7	65.2
90°	127.5	112.7	94.9	83.0	72.6	66.7	60.8	57.8	56.3	54.8	54.8
92.5°	112.7	100.8	84.5	74.1	65.2	60.8	54.8	51.9	50.4	50.4	50.4
95°	99.3	88.9	75.6	66.7	60.8	54.8	50.4	48.9	47.4	47.4	46.0
97.5°	86.0	77.1	68.2	60.8	54.8	50.4	46.0	44.5	43.0	43.0	43.0
100°	72.6	66.7	59.3	53.4	48.9	46.0	41.5	40.0	38.5	38.5	38.5
102.5°	60.8	56.3	50.4	46.0	43.0	40.0	37.1	35.6	34.1	34.1	34.1
105°	53.4	48.9	46.0	41.5	38.5	35.6	34.1	31.1	29.6	29.6	29.6
107.5°	48.9	46.0	43.0	40.0	37.1	34.1	31.1	28.2	26.7	26.7	26.7
110°	47.4	44.5	41.5	38.5	35.6	32.6	31.1	26.7	25.2	25.2	25.2



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	47.4	46.0	43.0	40.0	37.1	34.1	31.1	25.2	23.7	23.7	23.7
115°	50.4	47.4	44.5	41.5	38.5	35.6	32.6	25.2	23.7	23.7	23.7
117.5°	54.8	51.9	47.4	44.5	41.5	37.1	32.6	26.7	23.7	23.7	23.7
120°	62.3	57.8	53.4	48.9	44.5	40.0	34.1	26.7	22.2	23.7	23.7
122.5°	71.2	66.7	59.3	53.4	48.9	43.0	35.6	28.2	22.2	23.7	23.7
125°	83.0	77.1	68.2	60.8	53.4	46.0	37.1	28.2	22.2	23.7	25.2
127.5°	96.4	87.5	77.1	66.7	57.8	48.9	40.0	29.6	22.2	25.2	25.2
130°	111.2	100.8	87.5	74.1	63.7	51.9	41.5	29.6	23.7	23.7	23.7
132.5°	127.5	112.7	94.9	80.0	66.7	53.4	41.5	29.6	23.7	23.7	23.7
135°	139.3	121.6	102.3	84.5	69.7	54.8	43.0	29.6	22.2	22.2	22.2
137.5°	149.7	129.0	108.2	87.5	71.2	54.8	41.5	28.2	22.2	20.8	20.8
140°	155.7	131.9	108.2	87.5	69.7	53.4	38.5	26.7	19.3	19.3	19.3
142.5°	155.7	130.5	106.7	84.5	65.2	50.4	37.1	23.7	17.8	17.8	17.8
145°	149.7	124.5	100.8	80.0	60.8	46.0	32.6	22.2	16.3	16.3	16.3
147.5°	139.3	114.1	91.9	72.6	53.4	40.0	28.2	17.8	13.3	13.3	13.3
150°	124.5	100.8	80.0	62.3	46.0	32.6	23.7	14.8	10.4	10.4	10.4
152.5°	103.8	84.5	65.2	51.9	37.1	26.7	17.8	11.9	8.9	8.9	8.9
155°	81.5	66.7	51.9	40.0	28.2	19.3	13.3	8.9	5.9	5.9	5.9
157.5°	62.3	50.4	38.5	29.6	20.8	14.8	10.4	5.9	4.4	4.4	4.4
160°	43.0	34.1	26.7	20.8	13.3	10.4	7.4	4.4	3.0	3.0	3.0
162.5°	28.2	22.2	16.3	11.9	8.9	5.9	4.4	3.0	1.5	1.5	1.5
165°	13.3	10.4	8.9	5.9	4.4	3.0	1.5	1.5	0.0	0.0	0.0
167.5°	4.4	3.0	3.0	1.5	1.5	1.5	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)