

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: P691551

Luminaire Tested: **CRTK2-C016-D-U-T5R-7050-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691551  
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-C016-D-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**

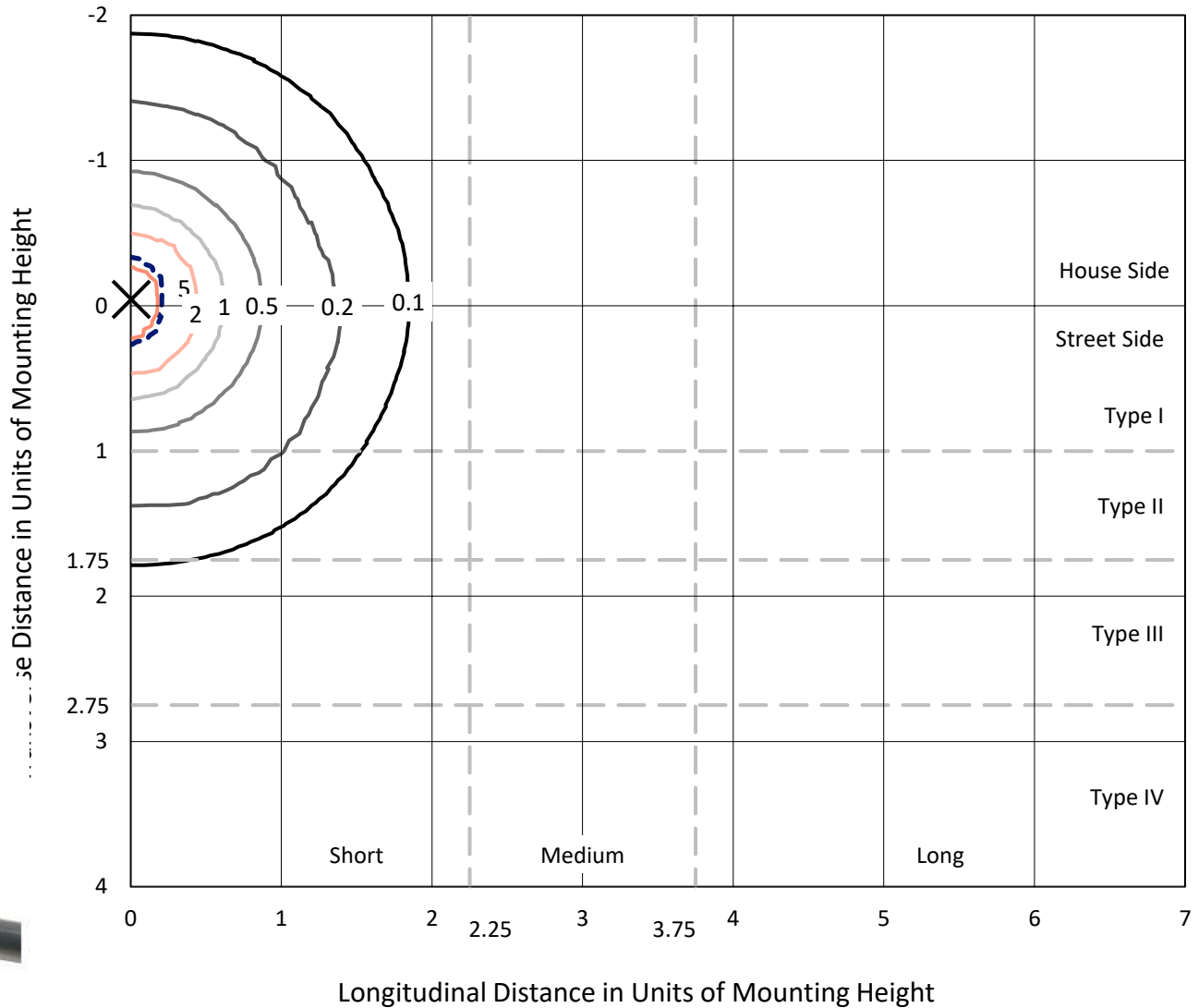
Lumens per Lamp: N/A  
Luminaire Lumens: 5264 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type V - Short  
BUG Rating: B3 - U4 - G2  
  
Input Watts (W): 41.6  
Input Voltage (V): NR  
Input Current (Ain): 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

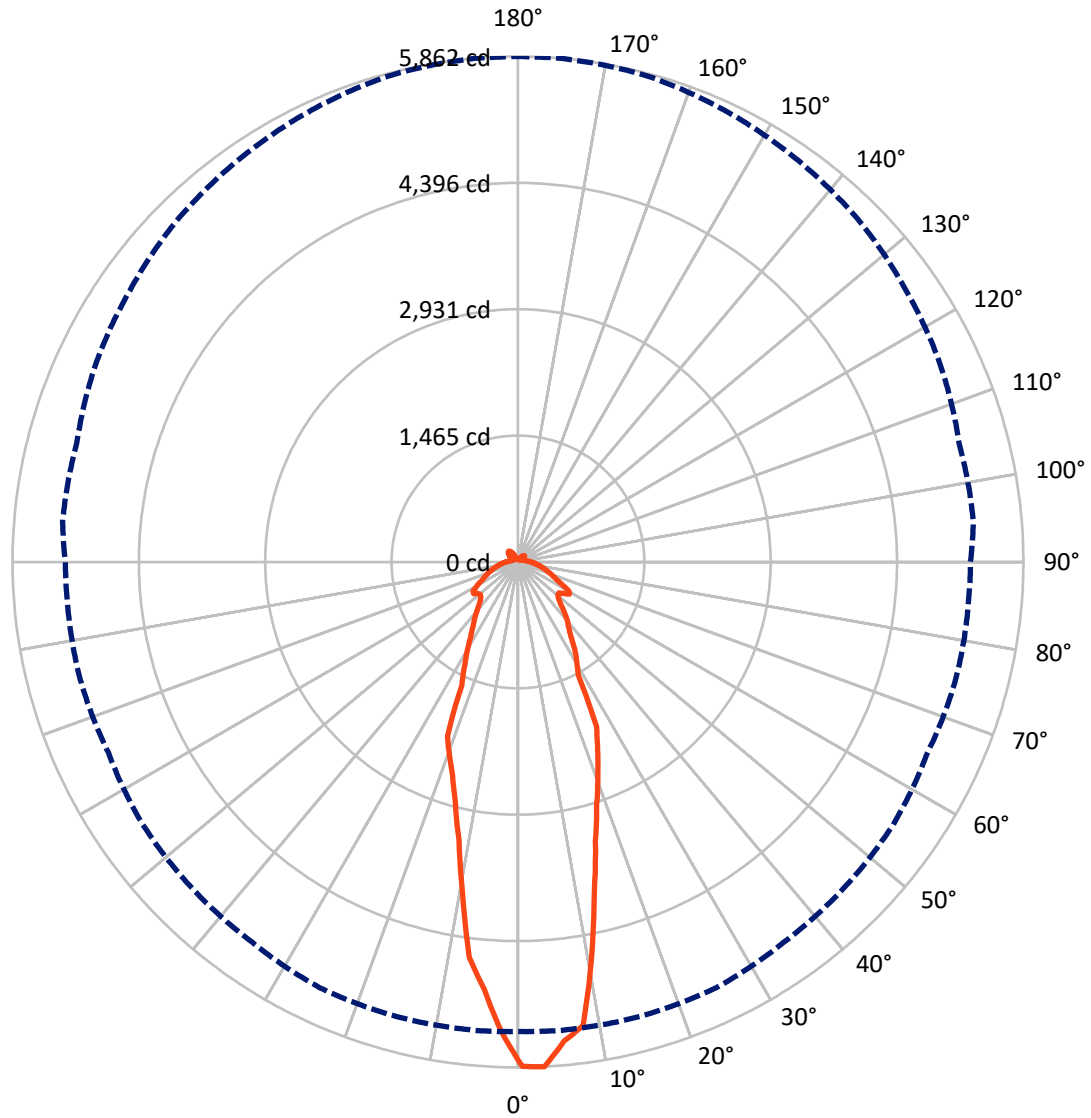
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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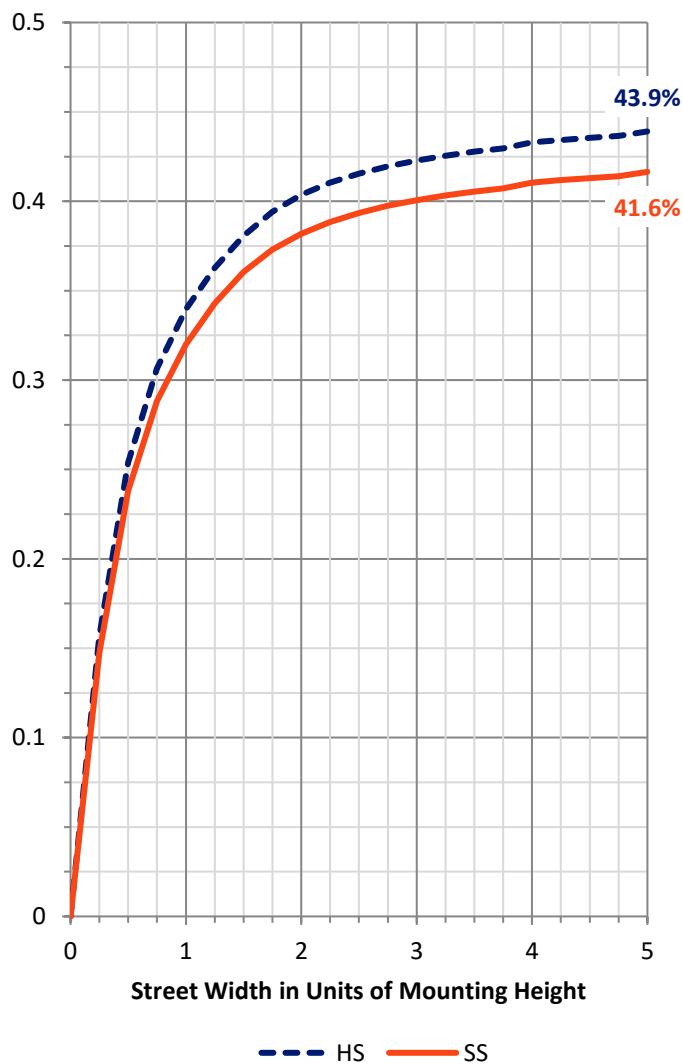
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2382.4	314.7	2697.1
	% Fixture	45.3	6.0	51.2
<b>Street Side</b>	Lumens	2243.9	323.0	2566.9
	% Fixture	42.6	6.1	48.8
<b>Total</b>	Lumens	4626.3	637.8	5264.0
	% Fixture	87.9	12.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.5	8.3
10°-20°	764.4	14.5
20°-30°	758.0	14.4
30°-40°	584.3	11.1
40°-50°	500.9	9.5
50°-60°	560.3	10.6
60°-70°	480.0	9.1
70°-80°	330.3	6.3
80°-90°	212.6	4.0
90°-100°	127.4	2.4
100°-110°	75.8	1.4
110°-120°	70.2	1.3
120°-130°	100.1	1.9
130°-140°	129.4	2.5
140°-150°	95.8	1.8
150°-160°	35.0	0.7
160°-170°	4.1	0.1
170°-180°	0.0	0.0
0°-90°	4626.3	87.9
0°-180°	5264.0	100.0

**Coefficient of Utilization**



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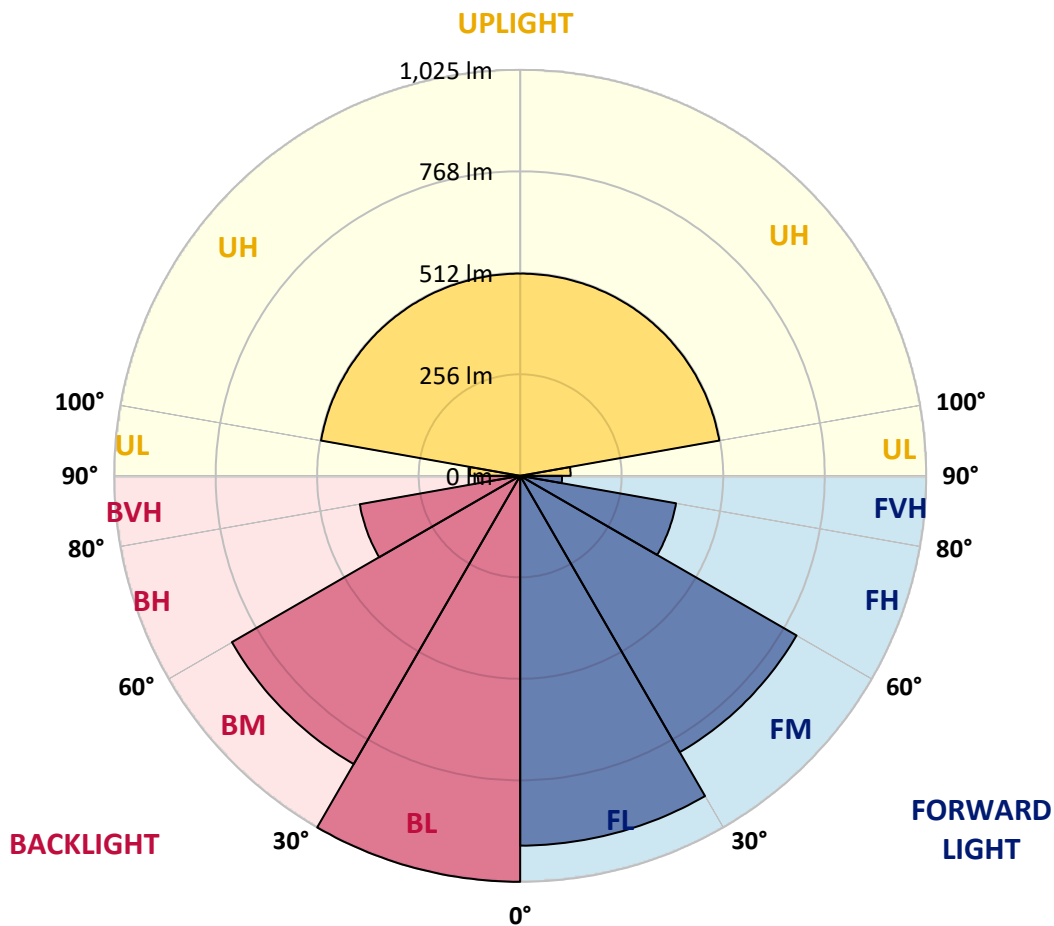
CATALOG NUMBER: CRTK2-C016-D-U-T5R-7050-RMARROA5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.2	17.7			
FM (30°-60°)	805.4	15.3			
FH (60°-80°)	399.3	7.6			G0/660
FVH (80°-90°)	106.0	2.0			G2/225
BL (0°-30°)	1024.7	19.5	B3/2500		
BM (30°-60°)	840.1	16.0	B1/1000		
BH (60°-80°)	411.0	7.8	B1/500		G0/660
BVH (80°-90°)	106.6	2.0			G2/225
UL (90°-100°)	127.4	2.4		U3/500	
UH (100°-180°)	510.4	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°	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9
2.5°	5445.9	5453.8	5455.8	5445.9	5380.5	5346.9	5311.2	5239.9	5255.8	5245.9	5247.9
5°	4938.9	4970.6	4921.1	4907.2	4808.2	4735.0	4663.7	4586.4	4568.6	4536.9	4548.8
7.5°	4602.3	4620.1	4538.9	4455.7	4297.3	4184.4	4065.6	3946.8	3857.7	3824.0	3837.9
10°	3831.9	3891.3	3810.1	3725.0	3574.5	3439.8	3315.1	3198.2	3117.0	3091.3	3095.2
12.5°	3257.6	3291.3	3222.0	3164.6	2996.2	2867.5	2752.7	2643.7	2578.4	2550.7	2550.7
15°	2877.4	2891.3	2837.8	2726.9	2600.2	2483.3	2386.3	2307.1	2253.6	2243.7	2247.7
17.5°	2590.3	2590.3	2536.8	2449.7	2352.6	2249.7	2182.3	2122.9	2099.1	2107.1	2109.0
20°	2374.4	2376.4	2328.9	2243.7	2160.5	2067.5	2012.0	1970.4	1956.6	1970.4	1972.4
22.5°	2170.4	2180.3	2128.9	2065.5	1974.4	1901.1	1855.6	1810.0	1802.1	1808.0	1808.0
25°	1570.4	1570.4	1552.6	1503.1	1522.9	1530.8	1584.3	1699.1	1675.4	1697.1	1695.2
27.5°	1354.5	1362.5	1326.8	1283.3	1237.7	1184.2	1174.3	1164.4	1154.5	1200.1	1215.9
30°	1196.1	1200.1	1170.4	1140.7	1103.0	1073.3	1065.4	1065.4	1055.5	1091.2	1089.2
32.5°	1045.6	1039.7	1031.7	1004.0	980.3	954.5	960.5	956.5	956.5	988.2	990.2
35°	926.8	924.8	918.9	899.1	875.3	855.5	861.4	865.4	863.4	883.2	883.2
37.5°	839.7	841.6	837.7	829.8	806.0	790.2	794.1	790.2	796.1	810.0	810.0
40°	754.5	754.5	756.5	754.5	738.7	732.7	744.6	738.7	752.5	762.4	758.5
42.5°	673.3	675.3	679.3	675.3	665.4	659.4	665.4	667.4	687.2	701.0	699.1
45°	621.8	621.8	623.8	621.8	613.9	608.0	608.0	602.0	615.9	623.8	621.8
47.5°	588.2	588.2	592.1	590.1	586.2	580.2	576.3	568.4	574.3	580.2	574.3
50°	576.3	576.3	584.2	584.2	582.2	576.3	570.3	560.4	562.4	566.4	558.5
52.5°	594.1	594.1	608.0	613.9	613.9	604.0	596.1	582.2	582.2	586.2	574.3
55°	631.7	631.7	653.5	665.4	667.4	667.4	657.5	643.6	645.6	653.5	641.6
57.5°	617.9	619.8	637.7	653.5	663.4	669.4	669.4	661.4	667.4	687.2	681.2
60°	552.5	556.5	568.4	582.2	600.0	606.0	606.0	604.0	613.9	637.7	637.7
62.5°	491.1	493.1	499.0	510.9	520.8	524.8	524.8	516.9	528.7	540.6	536.7
65°	443.6	441.6	453.5	463.4	469.3	475.3	469.3	461.4	467.4	475.3	473.3
67.5°	404.0	404.0	413.9	421.8	425.8	431.7	427.8	423.8	431.7	435.7	431.7
70°	366.4	368.3	376.3	382.2	386.2	392.1	386.2	384.2	392.1	396.1	394.1
72.5°	328.7	330.7	336.7	344.6	348.5	350.5	348.5	346.6	352.5	356.5	356.5
75°	295.1	297.0	301.0	308.9	308.9	312.9	310.9	308.9	314.9	318.8	318.8
77.5°	263.4	267.3	269.3	275.3	277.2	279.2	277.2	277.2	281.2	285.2	287.1
80°	235.7	237.6	239.6	245.6	245.6	247.5	245.6	245.6	249.5	255.5	255.5
82.5°	209.9	211.9	213.9	217.8	215.9	217.8	217.8	217.8	221.8	227.7	227.7
85°	184.2	188.1	188.1	192.1	192.1	192.1	192.1	194.1	196.1	202.0	202.0
87.5°	162.4	164.4	166.3	168.3	168.3	170.3	170.3	172.3	174.3	178.2	180.2
90°	140.6	142.6	144.6	144.6	144.6	146.5	146.5	148.5	150.5	154.5	156.4
92.5°	124.8	126.7	126.7	128.7	128.7	128.7	130.7	132.7	134.7	138.6	138.6
95°	110.9	112.9	112.9	112.9	112.9	114.9	114.9	116.8	118.8	122.8	122.8
97.5°	99.0	99.0	99.0	99.0	99.0	101.0	101.0	103.0	105.0	106.9	106.9
100°	87.1	87.1	87.1	87.1	87.1	87.1	87.1	89.1	89.1	93.1	93.1
102.5°	77.2	77.2	75.3	75.3	75.3	73.3	73.3	75.3	75.3	77.2	77.2
105°	69.3	69.3	69.3	69.3	67.3	67.3	67.3	67.3	67.3	69.3	69.3
107.5°	67.3	67.3	65.4	65.4	65.4	63.4	63.4	63.4	63.4	65.4	65.4
110°	65.4	65.4	65.4	65.4	63.4	63.4	61.4	61.4	61.4	63.4	63.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	67.3	67.3	67.3	65.4	65.4	63.4	63.4	63.4	63.4	63.4	65.4
115°	71.3	69.3	69.3	69.3	69.3	67.3	65.4	65.4	67.3	67.3	67.3
117.5°	77.2	75.3	75.3	77.2	75.3	73.3	71.3	71.3	73.3	73.3	75.3
120°	85.2	83.2	85.2	85.2	85.2	83.2	81.2	79.2	81.2	83.2	83.2
122.5°	95.1	93.1	95.1	97.0	97.0	95.1	91.1	91.1	93.1	95.1	97.0
125°	106.9	106.9	108.9	110.9	112.9	108.9	106.9	105.0	108.9	110.9	110.9
127.5°	120.8	118.8	122.8	128.7	130.7	126.7	122.8	120.8	124.8	128.7	128.7
130°	134.7	132.7	138.6	144.6	148.5	144.6	140.6	138.6	142.6	146.5	146.5
132.5°	146.5	144.6	152.5	160.4	164.4	162.4	158.4	154.5	160.4	164.4	162.4
135°	156.4	156.4	166.3	174.3	178.2	176.2	172.3	168.3	176.2	180.2	176.2
137.5°	162.4	162.4	174.3	182.2	186.2	186.2	184.2	180.2	188.1	190.1	184.2
140°	162.4	164.4	174.3	182.2	184.2	186.2	186.2	184.2	192.1	192.1	186.2
142.5°	156.4	158.4	168.3	176.2	178.2	180.2	182.2	180.2	186.2	186.2	182.2
145°	146.5	148.5	158.4	166.3	166.3	168.3	172.3	170.3	174.3	176.2	172.3
147.5°	132.7	134.7	142.6	146.5	148.5	152.5	156.4	156.4	158.4	160.4	158.4
150°	114.9	114.9	120.8	124.8	126.7	130.7	134.7	136.6	136.6	138.6	136.6
152.5°	91.1	91.1	95.1	99.0	101.0	106.9	108.9	110.9	112.9	114.9	112.9
155°	69.3	69.3	71.3	73.3	75.3	81.2	83.2	85.2	87.1	89.1	87.1
157.5°	49.5	49.5	51.5	53.5	55.4	59.4	61.4	63.4	63.4	65.4	65.4
160°	31.7	33.7	33.7	35.6	35.6	39.6	41.6	41.6	43.6	45.5	45.5
162.5°	15.8	17.8	17.8	19.8	21.8	23.8	25.7	25.7	27.7	27.7	27.7
165°	4.0	5.9	5.9	7.9	7.9	9.9	11.9	11.9	13.9	13.9	13.9
167.5°	0.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0
170°	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	2.0	2.0	2.0
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°	178°	180°
0°	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9	5849.9
2.5°	5301.3	5297.4	5406.3	5493.4	5596.4	5677.6	5756.8	5832.1	5861.8	5859.8	5861.8
5°	4602.3	4671.6	4814.2	4954.8	5121.1	5277.6	5424.1	5521.1	5582.5	5582.5	5588.5
7.5°	3901.2	4012.1	4188.4	4412.2	4661.7	4865.7	5113.2	5287.5	5426.1	5422.1	5447.9
10°	3150.7	3237.8	3414.1	3653.7	3929.0	4164.6	4380.5	4542.9	4677.5	4669.6	4703.3
12.5°	2588.3	2649.7	2802.2	3020.0	3271.5	3499.2	3711.1	3837.9	3932.9	3930.9	3948.8
15°	2257.6	2320.9	2420.0	2570.5	2778.4	2980.4	3192.3	3307.1	3360.6	3354.7	3384.4
17.5°	2122.9	2148.7	2210.0	2311.0	2461.5	2625.9	2794.2	2893.3	2954.6	2946.7	2968.5
20°	1978.3	2002.1	2043.7	2118.9	2225.9	2350.6	2493.2	2602.1	2647.7	2645.7	2659.6
22.5°	1812.0	1823.9	1869.4	1928.8	2006.1	2107.1	2216.0	2315.0	2360.5	2358.6	2372.4
25°	1697.1	1716.9	1744.7	1780.3	1833.8	1913.0	2004.1	2073.4	2115.0	2111.0	2128.9
27.5°	1239.7	1259.5	1273.3	1295.1	1297.1	1362.5	1394.1	1451.6	1489.2	1487.2	1499.1
30°	1089.2	1093.1	1105.0	1134.7	1152.5	1204.0	1267.4	1311.0	1342.7	1354.5	1362.5
32.5°	994.1	1006.0	1019.9	1033.7	1055.5	1087.2	1136.7	1176.3	1210.0	1215.9	1229.8
35°	885.2	893.1	903.0	916.9	930.8	956.5	994.1	1025.8	1051.6	1061.5	1069.4
37.5°	808.0	810.0	819.9	835.7	847.6	869.4	903.0	926.8	952.5	954.5	962.4
40°	756.5	758.5	768.4	782.2	796.1	810.0	839.7	861.4	879.3	881.2	887.2
42.5°	697.1	703.0	707.0	712.9	722.8	734.7	760.4	772.3	784.2	786.2	794.1
45°	615.9	617.9	621.8	627.8	639.6	651.5	669.4	683.2	691.1	691.1	689.2
47.5°	570.3	572.3	572.3	580.2	590.1	602.0	617.9	629.7	633.7	633.7	633.7
50°	554.5	554.5	550.5	556.5	566.4	574.3	590.1	600.0	602.0	604.0	606.0
52.5°	566.4	562.4	550.5	556.5	566.4	574.3	590.1	594.1	594.1	598.1	600.0
55°	631.7	625.8	602.0	606.0	617.9	627.8	639.6	641.6	645.6	651.5	649.5
57.5°	673.3	677.3	649.5	655.5	677.3	685.2	699.1	697.1	705.0	712.9	714.9
60°	633.7	645.6	623.8	631.7	657.5	661.4	675.3	667.4	679.3	679.3	679.3
62.5°	538.6	542.6	530.7	542.6	566.4	566.4	576.3	570.3	574.3	570.3	572.3
65°	471.3	469.3	455.5	471.3	479.2	483.2	491.1	493.1	493.1	489.1	489.1
67.5°	429.7	425.8	413.9	417.8	425.8	427.8	439.6	441.6	439.6	439.6	441.6
70°	392.1	386.2	374.3	376.3	382.2	384.2	394.1	398.0	396.1	394.1	396.1
72.5°	354.5	348.5	336.7	336.7	342.6	346.6	354.5	358.4	354.5	354.5	356.5
75°	318.8	312.9	301.0	301.0	305.0	307.0	316.9	318.8	316.9	314.9	316.9
77.5°	287.1	283.2	271.3	271.3	273.3	275.3	281.2	283.2	281.2	279.2	281.2
80°	257.4	251.5	243.6	241.6	243.6	243.6	249.5	251.5	247.5	247.5	249.5
82.5°	229.7	223.8	215.9	215.9	213.9	215.9	219.8	221.8	219.8	217.8	219.8
85°	204.0	200.0	192.1	190.1	190.1	190.1	194.1	194.1	192.1	192.1	192.1
87.5°	180.2	176.2	168.3	168.3	166.3	168.3	170.3	170.3	168.3	168.3	168.3
90°	156.4	152.5	146.5	146.5	144.6	146.5	148.5	148.5	146.5	146.5	146.5
92.5°	138.6	136.6	130.7	130.7	128.7	130.7	130.7	130.7	128.7	128.7	128.7
95°	122.8	120.8	116.8	114.9	114.9	114.9	114.9	114.9	112.9	112.9	112.9
97.5°	106.9	105.0	101.0	101.0	99.0	101.0	101.0	101.0	99.0	99.0	99.0
100°	93.1	91.1	89.1	89.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
102.5°	77.2	77.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
105°	69.3	69.3	69.3	69.3	71.3	71.3	71.3	69.3	69.3	69.3	69.3
107.5°	65.4	65.4	65.4	67.3	67.3	67.3	69.3	65.4	63.4	63.4	63.4
110°	63.4	63.4	65.4	65.4	67.3	67.3	69.3	61.4	59.4	59.4	59.4



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CATALOG NUMBER: CRTK2-C016-D-U-T5R-7050-RMARROA5

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	65.4	65.4	65.4	67.3	69.3	69.3	71.3	61.4	59.4	59.4	59.4
115°	69.3	69.3	69.3	71.3	73.3	75.3	75.3	65.4	61.4	61.4	63.4
117.5°	75.3	75.3	75.3	77.2	81.2	81.2	81.2	69.3	67.3	67.3	67.3
120°	83.2	85.2	85.2	87.1	91.1	93.1	89.1	79.2	67.3	73.3	73.3
122.5°	95.1	97.0	99.0	101.0	106.9	106.9	101.0	91.1	73.3	81.2	83.2
125°	110.9	112.9	114.9	118.8	124.8	124.8	116.8	103.0	83.2	91.1	93.1
127.5°	126.7	130.7	132.7	138.6	146.5	146.5	136.6	118.8	93.1	99.0	101.0
130°	144.6	148.5	152.5	160.4	170.3	166.3	158.4	134.7	101.0	105.0	105.0
132.5°	160.4	166.3	168.3	180.2	190.1	186.2	176.2	144.6	105.0	105.0	103.0
135°	172.3	176.2	178.2	190.1	200.0	194.1	182.2	148.5	103.0	99.0	99.0
137.5°	180.2	184.2	186.2	194.1	202.0	192.1	176.2	140.6	99.0	97.0	95.1
140°	184.2	184.2	184.2	190.1	194.1	182.2	162.4	126.7	89.1	93.1	93.1
142.5°	180.2	178.2	176.2	180.2	182.2	168.3	150.5	112.9	81.2	85.2	85.2
145°	170.3	166.3	164.4	166.3	166.3	150.5	130.7	97.0	71.3	73.3	73.3
147.5°	156.4	150.5	146.5	146.5	144.6	128.7	110.9	81.2	61.4	59.4	59.4
150°	134.7	128.7	124.8	124.8	118.8	105.0	89.1	63.4	49.5	49.5	49.5
152.5°	110.9	105.0	101.0	101.0	95.1	81.2	67.3	47.5	37.6	37.6	37.6
155°	87.1	81.2	77.2	75.3	71.3	61.4	49.5	35.6	27.7	27.7	27.7
157.5°	65.4	61.4	57.4	55.4	51.5	45.5	35.6	25.7	17.8	19.8	19.8
160°	45.5	41.6	39.6	37.6	35.6	29.7	23.8	15.8	9.9	9.9	9.9
162.5°	27.7	25.7	25.7	23.8	21.8	19.8	13.9	7.9	4.0	4.0	4.0
165°	13.9	13.9	11.9	11.9	9.9	7.9	5.9	2.0	0.0	0.0	0.0
167.5°	4.0	4.0	4.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
170°	2.0	2.0	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)