

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: P691430

Luminaire Tested: **CRTK2-C016-5TLD-U-T3-7050-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691430  
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-C016-5TLD-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: 5240 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B3 - U4 - G2

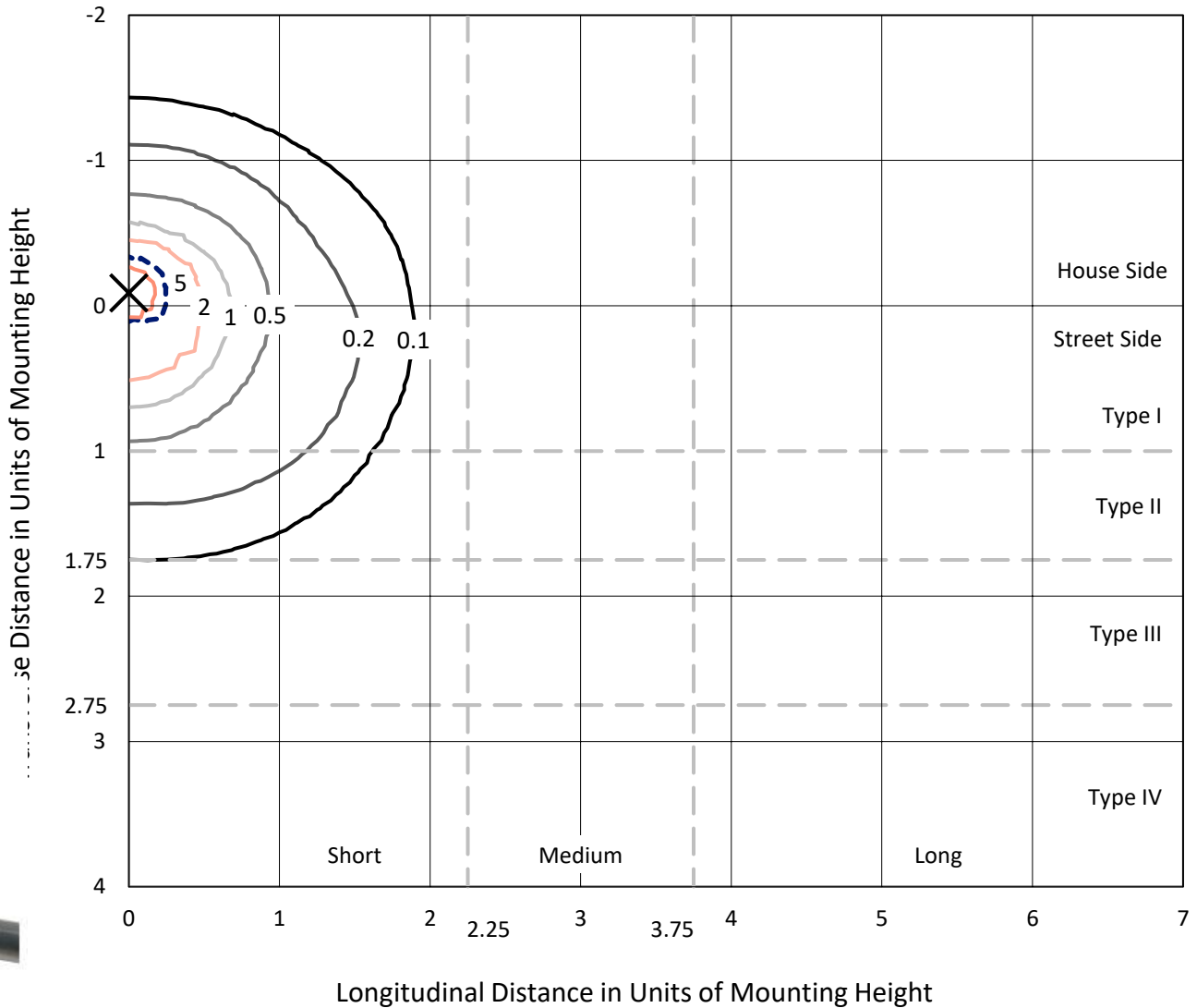
Input Watts (W): 42.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

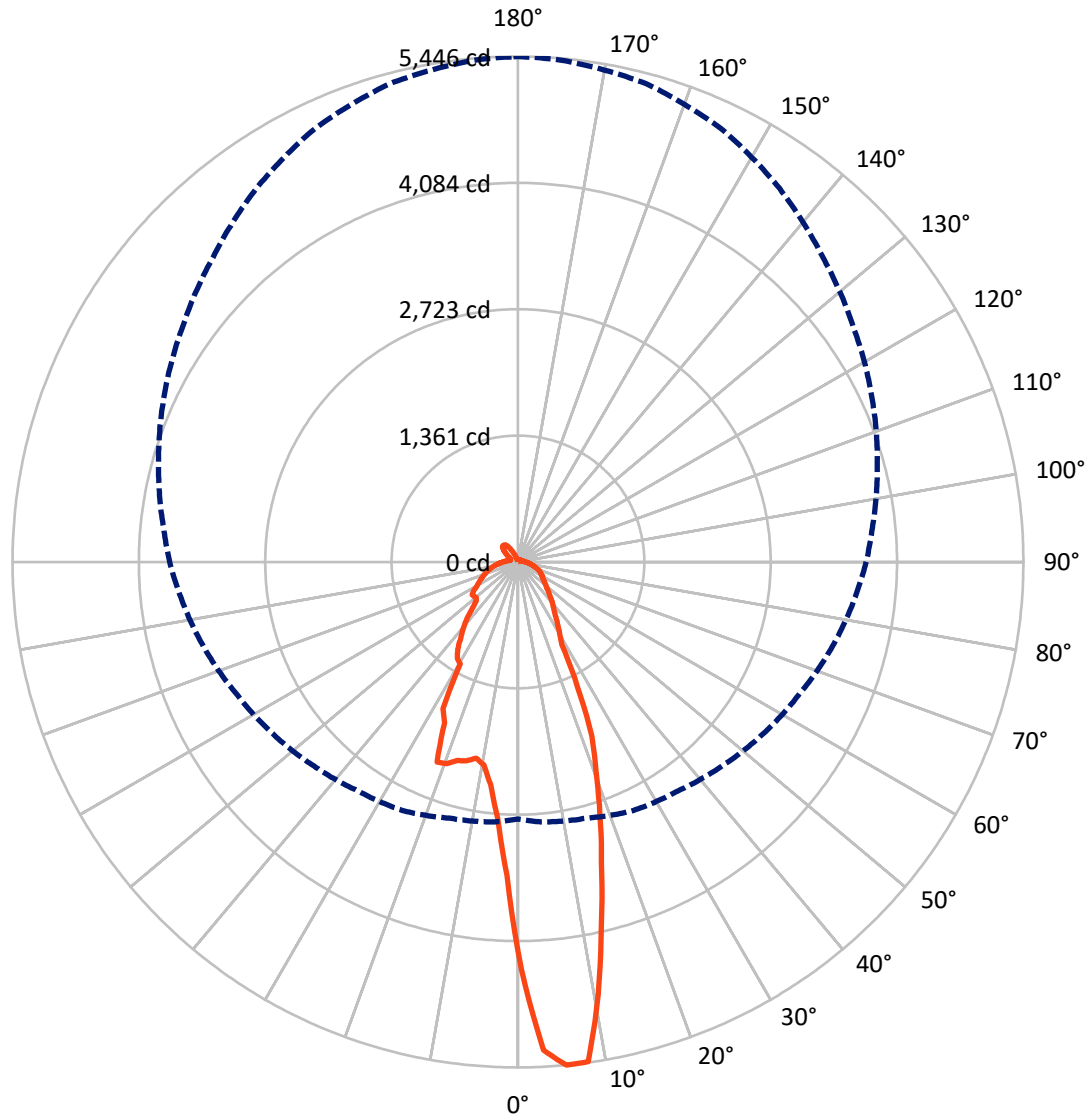
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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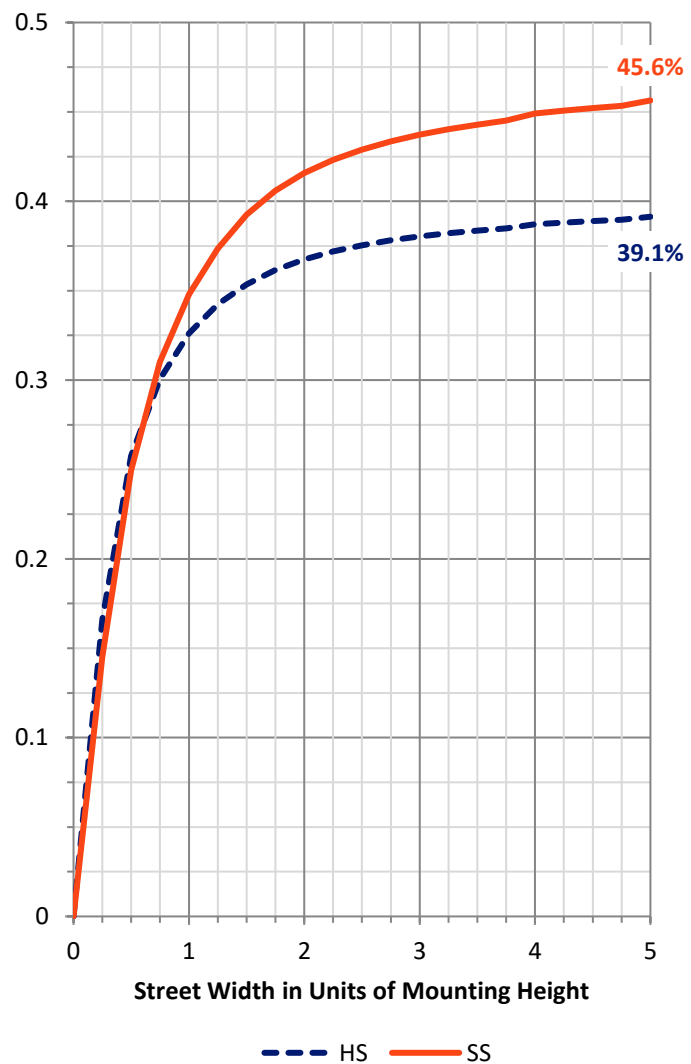
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2106.1	225.8	2331.9
	% Fixture	40.2	4.3	44.5
<b>Street Side</b>	Lumens	2457.7	450.4	2908.2
	% Fixture	46.9	8.6	55.5
<b>Total</b>	Lumens	4563.8	676.2	5240.0
	% Fixture	87.1	12.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.2	6.7
10°-20°	755.4	14.4
20°-30°	831.8	15.9
30°-40°	611.2	11.7
40°-50°	512.1	9.8
50°-60°	513.8	9.8
60°-70°	440.0	8.4
70°-80°	327.9	6.3
80°-90°	219.4	4.2
90°-100°	130.3	2.5
100°-110°	75.7	1.4
110°-120°	70.4	1.3
120°-130°	102.1	1.9
130°-140°	137.3	2.6
140°-150°	111.2	2.1
150°-160°	43.9	0.8
160°-170°	5.3	0.1
170°-180°	0.0	0.0
0°-90°	4563.8	87.1
0°-180°	5240.0	100.0



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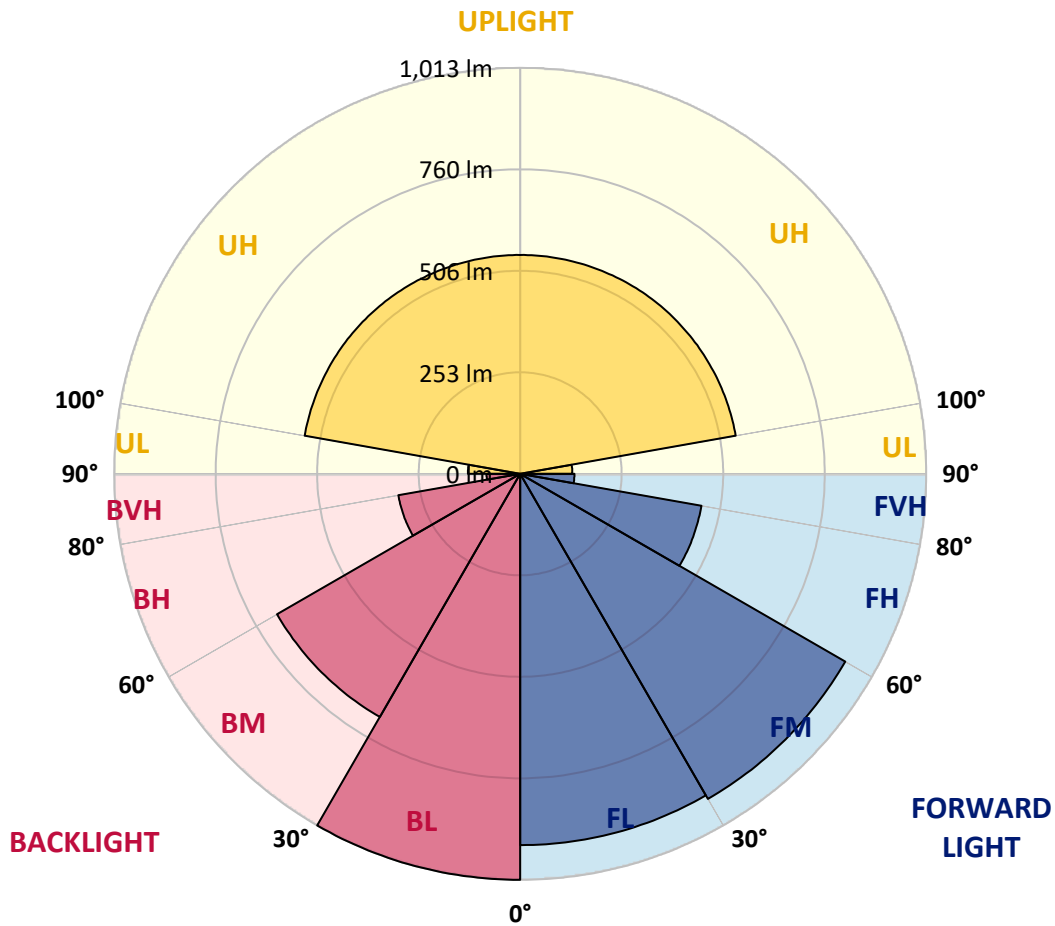
CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7050-RMARROA5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.5	17.7			
FM (30°-60°)	936.6	17.9			
FH (60°-80°)	459.2	8.8			G0/660
FVH (80°-90°)	135.4	2.6			G2/225
BL (0°-30°)	1012.9	19.3	B3/2500		
BM (30°-60°)	700.5	13.4	B1/1000		
BH (60°-80°)	308.7	5.9	B1/500		G1/500
BVH (80°-90°)	84.0	1.6			G1/100
UL (90°-100°)	130.3	2.5		U3/500	
UH (100°-180°)	545.9	10.4		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°	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4
2.5°	3379.3	3429.2	3454.2	3529.1	3554.1	3601.9	3674.7	3747.6	3870.3	3961.9	4032.6
5°	2769.6	2811.2	2857.0	2952.7	3008.9	3108.8	3225.3	3350.1	3508.3	3668.5	3751.7
7.5°	2413.8	2424.2	2490.7	2607.3	2709.2	2815.4	2942.3	3050.5	3158.7	3289.8	3373.0
10°	2218.2	2232.7	2276.4	2365.9	2453.3	2540.7	2640.6	2723.8	2834.1	2944.4	2994.3
12.5°	2159.9	2166.1	2203.6	2255.6	2311.8	2368.0	2445.0	2519.9	2617.7	2713.4	2746.7
15°	2211.9	2211.9	2218.2	2239.0	2268.1	2311.8	2370.1	2434.6	2524.0	2594.8	2630.2
17.5°	2236.9	2239.0	2255.6	2259.8	2286.8	2305.6	2357.6	2407.5	2492.8	2551.1	2569.8
20°	2303.5	2303.5	2305.6	2316.0	2320.1	2330.5	2353.4	2380.5	2451.2	2482.4	2478.3
22.5°	2324.3	2316.0	2349.3	2409.6	2407.5	2409.6	2388.8	2395.0	2434.6	2422.1	2393.0
25°	1908.1	1897.7	1935.2	1972.6	2026.7	2095.4	2266.0	2399.2	2449.1	2409.6	2345.1
27.5°	1774.9	1729.2	1718.8	1629.3	1548.1	1415.0	1402.5	1319.2	1310.9	1362.9	1410.8
30°	1261.0	1263.1	1261.0	1252.7	1246.4	1252.7	1258.9	1244.3	1248.5	1281.8	1267.2
32.5°	1229.8	1229.8	1221.4	1217.3	1198.6	1192.3	1181.9	1154.9	1159.0	1184.0	1177.7
35°	1146.5	1142.4	1144.5	1134.1	1100.8	1073.7	1069.5	1046.7	1046.7	1061.2	1055.0
37.5°	1021.7	1015.4	1040.4	1038.3	1011.3	1000.9	990.5	975.9	975.9	988.4	975.9
40°	923.9	919.7	946.8	955.1	938.5	942.6	944.7	932.2	944.7	946.8	930.1
42.5°	819.8	817.8	840.7	838.6	824.0	821.9	819.8	811.5	832.3	849.0	836.5
45°	697.1	690.8	707.5	713.7	709.6	703.3	701.2	701.2	713.7	722.0	709.6
47.5°	615.9	618.0	630.5	645.1	649.2	653.4	651.3	647.1	655.5	657.5	647.1
50°	588.9	591.0	609.7	626.3	638.8	647.1	647.1	640.9	647.1	640.9	626.3
52.5°	601.4	601.4	626.3	651.3	672.1	686.7	688.8	680.4	680.4	663.8	640.9
55°	605.5	609.7	643.0	684.6	722.0	761.6	780.3	774.1	780.3	744.9	707.5
57.5°	566.0	576.4	609.7	659.6	709.6	772.0	811.5	815.7	813.6	782.4	736.6
60°	514.0	522.3	545.2	588.9	636.7	686.7	726.2	734.5	742.9	728.3	686.7
62.5°	478.6	482.8	501.5	532.7	566.0	593.0	607.6	605.5	613.8	609.7	578.5
65°	447.4	449.5	470.3	495.2	516.0	543.1	547.3	547.3	553.5	545.2	520.2
67.5°	414.1	414.1	430.7	453.6	478.6	501.5	507.7	509.8	518.1	509.8	491.1
70°	385.0	385.0	399.5	418.2	437.0	459.9	466.1	468.2	478.6	468.2	449.5
72.5°	357.9	357.9	370.4	387.0	403.7	422.4	428.7	430.7	439.1	428.7	414.1
75°	328.8	330.9	341.3	355.8	370.4	387.0	395.4	395.4	401.6	389.1	376.6
77.5°	299.6	301.7	312.1	324.6	337.1	353.7	357.9	360.0	366.2	353.7	341.3
80°	270.5	274.7	283.0	293.4	305.9	318.4	326.7	326.7	330.9	318.4	310.0
82.5°	243.5	247.6	253.9	262.2	274.7	287.2	295.5	295.5	297.6	287.2	276.7
85°	216.4	220.6	226.8	233.1	243.5	255.9	264.3	264.3	266.3	255.9	247.6
87.5°	191.4	195.6	199.8	206.0	214.3	226.8	235.1	235.1	235.1	226.8	218.5
90°	166.5	168.5	172.7	179.0	187.3	197.7	203.9	206.0	206.0	195.6	191.4
92.5°	147.7	147.7	151.9	156.1	164.4	172.7	179.0	181.0	181.0	174.8	168.5
95°	126.9	129.0	131.1	135.3	141.5	147.7	156.1	156.1	156.1	151.9	147.7
97.5°	112.4	110.3	112.4	114.4	120.7	124.8	131.1	133.2	133.2	129.0	126.9
100°	95.7	97.8	97.8	99.9	102.0	104.0	108.2	110.3	110.3	108.2	108.2
102.5°	89.5	87.4	87.4	87.4	87.4	87.4	89.5	89.5	91.6	89.5	87.4
105°	83.2	83.2	83.2	83.2	81.2	81.2	81.2	81.2	79.1	77.0	77.0
107.5°	81.2	81.2	81.2	81.2	79.1	79.1	77.0	77.0	74.9	72.8	70.7
110°	81.2	81.2	81.2	81.2	79.1	77.0	77.0	74.9	72.8	70.7	68.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	85.3	85.3	85.3	85.3	81.2	79.1	77.0	77.0	72.8	70.7	68.7
115°	93.6	93.6	91.6	91.6	89.5	85.3	83.2	81.2	79.1	74.9	72.8
117.5°	102.0	102.0	102.0	102.0	99.9	95.7	91.6	89.5	87.4	81.2	79.1
120°	116.5	116.5	116.5	118.6	114.4	110.3	106.1	102.0	99.9	93.6	89.5
122.5°	135.3	133.2	137.3	139.4	137.3	131.1	124.8	120.7	116.5	108.2	104.0
125°	154.0	154.0	158.1	164.4	164.4	158.1	149.8	143.6	139.4	126.9	120.7
127.5°	176.9	176.9	183.1	193.5	195.6	189.4	181.0	172.7	166.5	149.8	143.6
130°	197.7	197.7	210.2	222.6	228.9	222.6	214.3	203.9	195.6	176.9	166.5
132.5°	214.3	216.4	231.0	247.6	255.9	253.9	243.5	235.1	226.8	203.9	191.4
135°	231.0	233.1	249.7	270.5	280.9	280.9	272.6	262.2	251.8	226.8	212.2
137.5°	239.3	241.4	262.2	283.0	295.5	299.6	295.5	285.1	274.7	247.6	228.9
140°	239.3	243.5	264.3	285.1	297.6	303.8	303.8	293.4	283.0	258.0	239.3
142.5°	233.1	237.2	255.9	276.7	289.2	297.6	299.6	291.3	280.9	255.9	237.2
145°	220.6	222.6	241.4	260.1	272.6	283.0	287.2	280.9	268.4	247.6	228.9
147.5°	199.8	199.8	216.4	231.0	247.6	258.0	264.3	260.1	249.7	231.0	214.3
150°	170.6	170.6	183.1	197.7	212.2	224.7	231.0	231.0	220.6	206.0	189.4
152.5°	135.3	137.3	145.7	158.1	172.7	183.1	191.4	191.4	185.2	172.7	158.1
155°	104.0	104.0	110.3	118.6	131.1	141.5	147.7	147.7	143.6	133.2	124.8
157.5°	74.9	74.9	79.1	87.4	95.7	104.0	110.3	110.3	106.1	99.9	93.6
160°	49.9	49.9	52.0	58.3	64.5	70.7	74.9	77.0	74.9	70.7	64.5
162.5°	27.1	27.1	29.1	33.3	37.5	43.7	45.8	47.9	47.9	43.7	41.6
165°	8.3	8.3	8.3	12.5	14.6	18.7	20.8	22.9	22.9	22.9	20.8
167.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.2	6.2	6.2	6.2	6.2
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	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°	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4	4386.4
2.5°	4099.2	4253.2	4423.8	4598.6	4777.6	4946.1	5087.6	5200.0	5260.3	5274.9	5266.6
5°	3826.6	4007.7	4207.4	4411.4	4644.4	4912.8	5158.4	5335.2	5426.8	5441.4	5445.5
7.5°	3437.5	3595.7	3791.3	4026.4	4319.8	4607.0	4985.7	5249.9	5397.7	5437.2	5437.2
10°	3027.6	3167.0	3289.8	3495.8	3751.7	4020.2	4342.7	4586.1	4736.0	4783.8	4742.2
12.5°	2796.6	2857.0	2940.2	3092.1	3252.3	3456.3	3735.1	3893.2	3991.0	4020.2	3995.2
15°	2648.9	2680.1	2715.5	2780.0	2892.3	3019.3	3183.7	3281.5	3341.8	3377.2	3364.7
17.5°	2578.1	2578.1	2571.9	2586.5	2615.6	2673.9	2786.2	2821.6	2848.7	2863.2	2854.9
20°	2469.9	2436.6	2409.6	2368.0	2351.3	2349.3	2376.3	2413.8	2411.7	2413.8	2397.1
22.5°	2361.7	2293.1	2226.5	2164.1	2093.3	2057.9	2033.0	2045.5	2035.0	2045.5	2035.0
25°	2309.7	2170.3	2037.1	1885.2	1758.3	1660.5	1596.0	1556.5	1489.9	1514.8	1492.0
27.5°	1433.7	1375.4	1319.2	1206.9	1100.8	1063.3	1032.1	1015.4	1003.0	1009.2	1005.0
30°	1242.3	1194.4	1150.7	1092.4	1011.3	961.3	923.9	890.6	880.2	882.3	880.2
32.5°	1152.8	1115.3	1061.2	1000.9	928.0	865.6	821.9	790.7	774.1	784.5	776.1
35°	1032.1	994.6	948.9	892.7	830.2	774.1	732.5	703.3	684.6	688.8	686.7
37.5°	953.0	917.6	878.1	817.8	763.7	709.6	667.9	638.8	620.1	624.2	620.1
40°	907.2	867.7	826.1	772.0	717.9	661.7	622.2	588.9	570.1	570.1	570.1
42.5°	813.6	782.4	747.0	690.8	643.0	595.1	555.6	530.6	509.8	511.9	507.7
45°	695.0	672.1	645.1	607.6	568.1	530.6	497.3	478.6	461.9	464.0	461.9
47.5°	634.7	613.8	582.6	553.5	518.1	484.8	455.7	432.8	420.3	422.4	418.2
50°	611.8	586.8	551.4	511.9	478.6	445.3	416.2	399.5	387.0	389.1	387.0
52.5°	620.1	580.6	530.6	482.8	443.2	409.9	387.0	368.3	360.0	362.1	357.9
55°	674.2	605.5	530.6	470.3	420.3	382.9	360.0	339.2	330.9	330.9	330.9
57.5°	692.9	618.0	524.4	455.7	401.6	364.1	337.1	316.3	308.0	308.0	308.0
60°	649.2	584.7	499.4	434.9	385.0	349.6	326.7	312.1	305.9	305.9	305.9
62.5°	555.6	514.0	449.5	397.4	360.0	328.8	305.9	287.2	280.9	278.8	278.8
65°	503.6	464.0	409.9	366.2	332.9	308.0	287.2	272.6	264.3	264.3	264.3
67.5°	470.3	432.8	382.9	341.3	310.0	283.0	264.3	249.7	245.5	243.5	243.5
70°	432.8	397.4	347.5	310.0	280.9	258.0	239.3	226.8	222.6	222.6	220.6
72.5°	395.4	362.1	314.2	278.8	251.8	231.0	214.3	203.9	199.8	197.7	197.7
75°	360.0	326.7	283.0	249.7	224.7	206.0	191.4	181.0	176.9	176.9	176.9
77.5°	326.7	295.5	253.9	222.6	201.8	183.1	170.6	162.3	158.1	158.1	158.1
80°	295.5	264.3	226.8	197.7	176.9	162.3	151.9	143.6	139.4	141.5	139.4
82.5°	262.2	237.2	201.8	174.8	158.1	143.6	133.2	126.9	122.8	124.8	122.8
85°	235.1	210.2	176.9	154.0	137.3	124.8	116.5	110.3	106.1	108.2	106.1
87.5°	208.1	185.2	156.1	135.3	120.7	110.3	99.9	95.7	93.6	93.6	91.6
90°	179.0	158.1	133.2	116.5	102.0	93.6	85.3	81.2	79.1	77.0	77.0
92.5°	158.1	141.5	118.6	104.0	91.6	85.3	77.0	72.8	70.7	70.7	70.7
95°	139.4	124.8	106.1	93.6	85.3	77.0	70.7	68.7	66.6	66.6	64.5
97.5°	120.7	108.2	95.7	85.3	77.0	70.7	64.5	62.4	60.3	60.3	60.3
100°	102.0	93.6	83.2	74.9	68.7	64.5	58.3	56.2	54.1	54.1	54.1
102.5°	85.3	79.1	70.7	64.5	60.3	56.2	52.0	49.9	47.9	47.9	47.9
105°	74.9	68.7	64.5	58.3	54.1	49.9	47.9	43.7	41.6	41.6	41.6
107.5°	68.7	64.5	60.3	56.2	52.0	47.9	43.7	39.5	37.5	37.5	37.5
110°	66.6	62.4	58.3	54.1	49.9	45.8	43.7	37.5	35.4	35.4	35.4



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CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7050-RMARROA5

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	66.6	64.5	60.3	56.2	52.0	47.9	43.7	35.4	33.3	33.3	33.3
115°	70.7	66.6	62.4	58.3	54.1	49.9	45.8	35.4	33.3	33.3	33.3
117.5°	77.0	72.8	66.6	62.4	58.3	52.0	45.8	37.5	33.3	33.3	33.3
120°	87.4	81.2	74.9	68.7	62.4	56.2	47.9	37.5	31.2	33.3	33.3
122.5°	99.9	93.6	83.2	74.9	68.7	60.3	49.9	39.5	31.2	33.3	33.3
125°	116.5	108.2	95.7	85.3	74.9	64.5	52.0	39.5	31.2	33.3	35.4
127.5°	135.3	122.8	108.2	93.6	81.2	68.7	56.2	41.6	31.2	35.4	35.4
130°	156.1	141.5	122.8	104.0	89.5	72.8	58.3	41.6	33.3	33.3	33.3
132.5°	179.0	158.1	133.2	112.4	93.6	74.9	58.3	41.6	33.3	33.3	33.3
135°	195.6	170.6	143.6	118.6	97.8	77.0	60.3	41.6	31.2	31.2	31.2
137.5°	210.2	181.0	151.9	122.8	99.9	77.0	58.3	39.5	31.2	29.1	29.1
140°	218.5	185.2	151.9	122.8	97.8	74.9	54.1	37.5	27.1	27.1	27.1
142.5°	218.5	183.1	149.8	118.6	91.6	70.7	52.0	33.3	25.0	25.0	25.0
145°	210.2	174.8	141.5	112.4	85.3	64.5	45.8	31.2	22.9	22.9	22.9
147.5°	195.6	160.2	129.0	102.0	74.9	56.2	39.5	25.0	18.7	18.7	18.7
150°	174.8	141.5	112.4	87.4	64.5	45.8	33.3	20.8	14.6	14.6	14.6
152.5°	145.7	118.6	91.6	72.8	52.0	37.5	25.0	16.6	12.5	12.5	12.5
155°	114.4	93.6	72.8	56.2	39.5	27.1	18.7	12.5	8.3	8.3	8.3
157.5°	87.4	70.7	54.1	41.6	29.1	20.8	14.6	8.3	6.2	6.2	6.2
160°	60.3	47.9	37.5	29.1	18.7	14.6	10.4	6.2	4.2	4.2	4.2
162.5°	39.5	31.2	22.9	16.6	12.5	8.3	6.2	4.2	2.1	2.1	2.1
165°	18.7	14.6	12.5	8.3	6.2	4.2	2.1	2.1	0.0	0.0	0.0
167.5°	6.2	4.2	4.2	2.1	2.1	2.1	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)