

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: P691706

Luminaire Tested: **CRTK2-C018-D-U-T3-7050-RMARROA5**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691706  
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-C018-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**

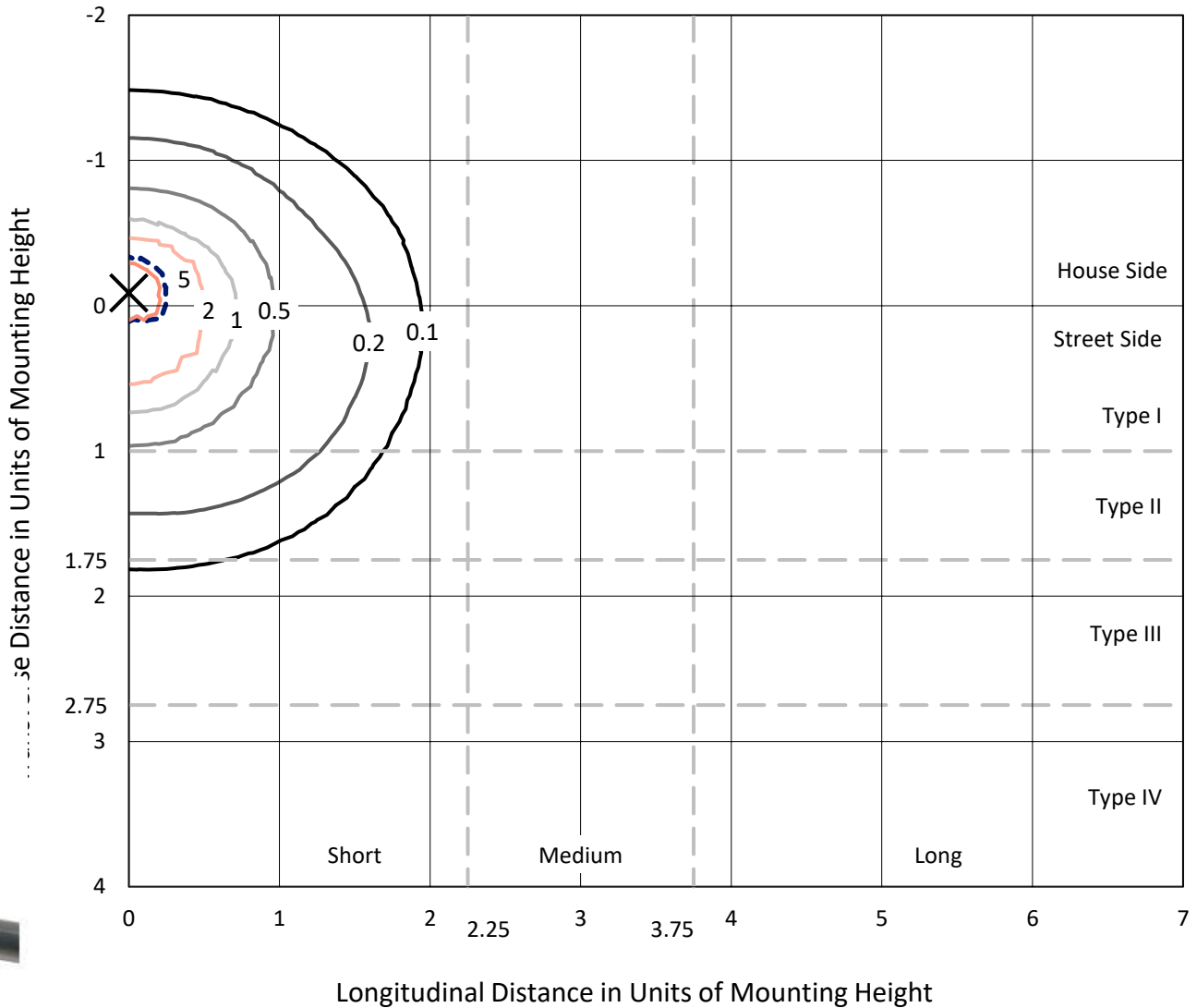
Lumens per Lamp: N/A  
Luminaire Lumens: 5818 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B3 - U4 - G2  
  
Input Watts (W): 50.4  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P691706  
 CATALOG NUMBER: CRTK2-C018-D-U-T3-7050-RMARROA5

### Iso-Footcandle Lines of Horizontal Illumination

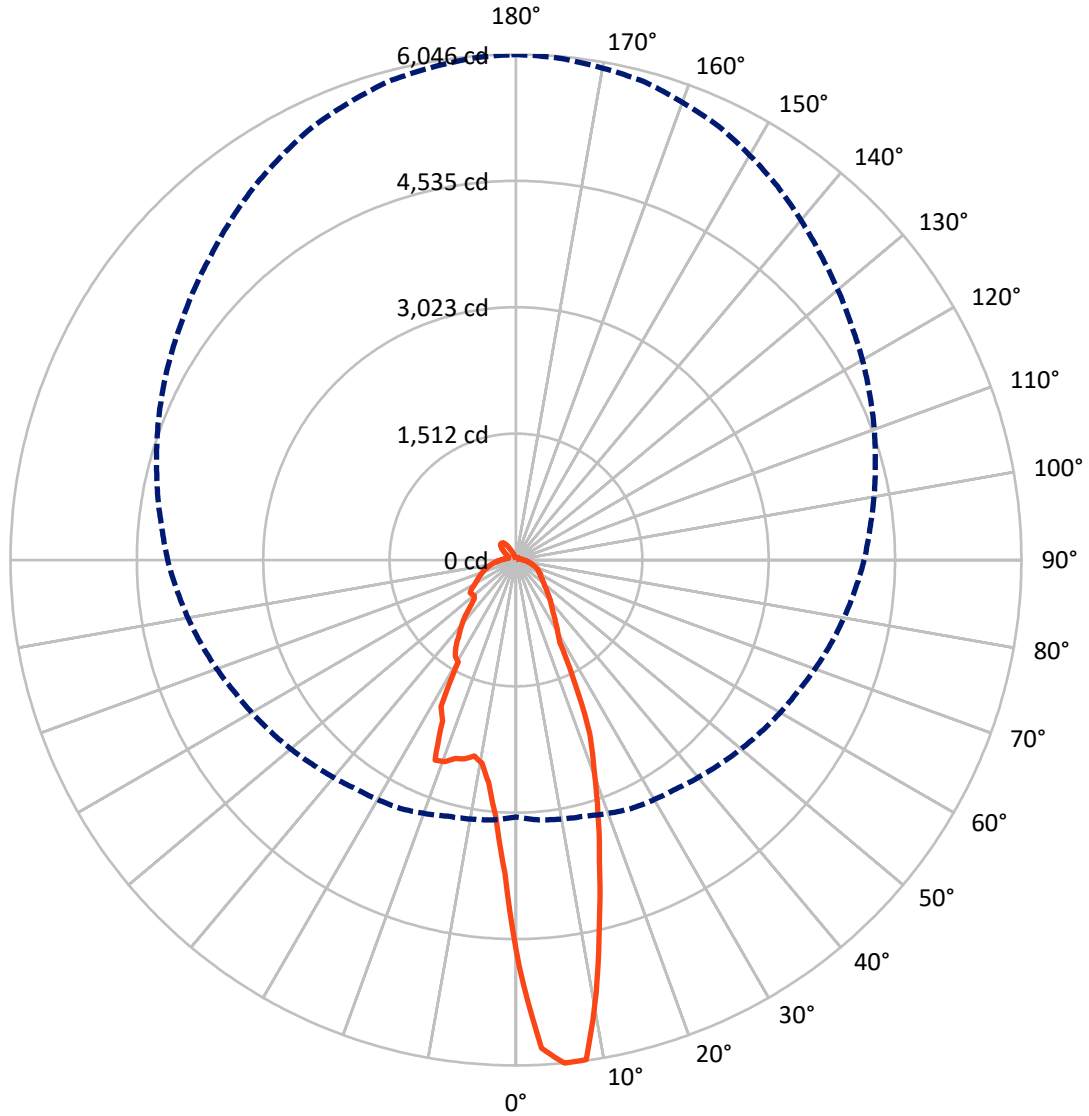
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type I - Short - N/A

REPORT NUMBER: P691706  
CATALOG NUMBER: CRTK2-C018-D-U-T3-7050-RMARROA5

### Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral      - - - Horizontal Cone Through 5-Deg Vertical

REPORT NUMBER: P691706  
 CATALOG NUMBER: CRTK2-C018-D-U-T3-7050-RMARROA5

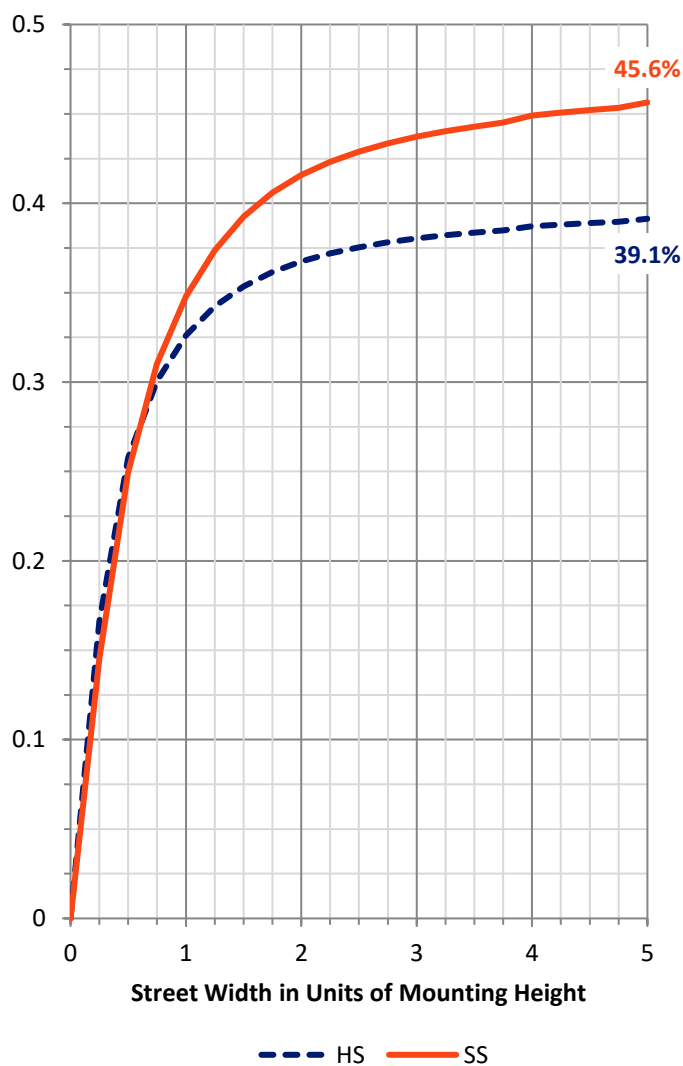
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2338.4	250.7	2589.1
	% Fixture	40.2	4.3	44.5
<b>Street Side</b>	Lumens	2728.8	500.1	3228.9
	% Fixture	46.9	8.6	55.5
<b>Total</b>	Lumens	5067.2	750.8	5818.0
	% Fixture	87.1	12.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.1	6.7
10°-20°	838.7	14.4
20°-30°	923.5	15.9
30°-40°	678.6	11.7
40°-50°	568.6	9.8
50°-60°	570.5	9.8
60°-70°	488.6	8.4
70°-80°	364.0	6.3
80°-90°	243.6	4.2
90°-100°	144.7	2.5
100°-110°	84.0	1.4
110°-120°	78.1	1.3
120°-130°	113.3	1.9
130°-140°	152.5	2.6
140°-150°	123.5	2.1
150°-160°	48.8	0.8
160°-170°	5.9	0.1
170°-180°	0.0	0.0
0°-90°	5067.2	87.1
0°-180°	5818.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P691706

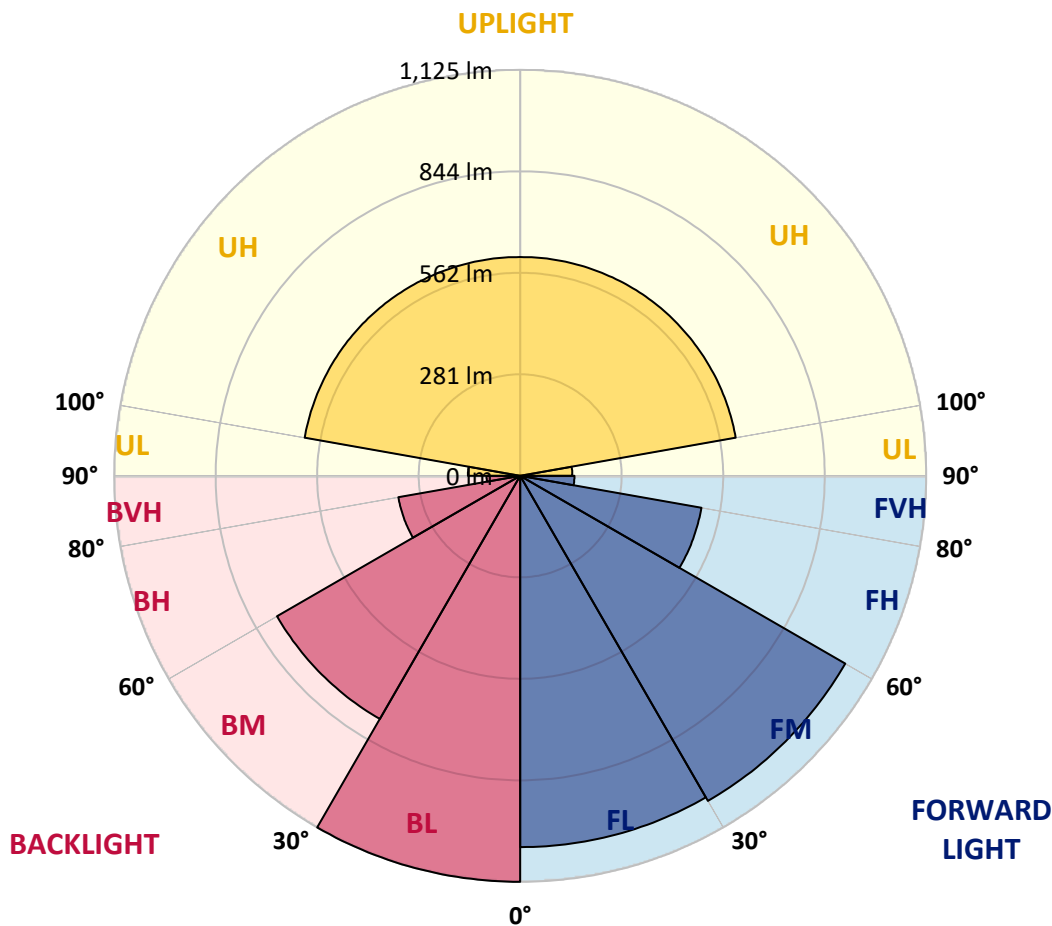
CATALOG NUMBER: CRTK2-C018-D-U-T3-7050-RMARROA5

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.7	17.7			
FM (30°-60°)	1039.9	17.9			
FH (60°-80°)	509.9	8.8			G0/660
FVH (80°-90°)	150.4	2.6			G2/225
BL (0°-30°)	1124.7	19.3	B3/2500		
BM (30°-60°)	777.8	13.4	B1/1000		
BH (60°-80°)	342.7	5.9	B1/500		G1/500
BVH (80°-90°)	93.2	1.6			G1/100
UL (90°-100°)	144.7	2.5		U3/500	
UH (100°-180°)	606.2	10.4		U4/1000	

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

Type I Short





REPORT NUMBER: P691706

CATALOG NUMBER: CRTK2-C018-D-U-T3-7050-RMARROA5

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2
2.5°	3752.0	3807.5	3835.2	3918.4	3946.1	3999.2	4080.1	4160.9	4297.3	4398.9	4477.5
5°	3075.1	3121.3	3172.1	3278.4	3340.8	3451.7	3581.0	3719.7	3895.3	4073.2	4165.6
7.5°	2680.0	2691.6	2765.5	2894.9	3008.1	3125.9	3266.8	3387.0	3507.1	3652.7	3745.1
10°	2462.8	2479.0	2527.5	2626.9	2723.9	2820.9	2931.8	3024.3	3146.7	3269.1	3324.6
12.5°	2398.1	2405.1	2446.7	2504.4	2566.8	2629.2	2714.7	2797.8	2906.4	3012.7	3049.7
15°	2455.9	2455.9	2462.8	2485.9	2518.3	2566.8	2631.5	2703.1	2802.5	2881.0	2920.3
17.5°	2483.6	2485.9	2504.4	2509.0	2539.1	2559.9	2617.6	2673.1	2767.8	2832.5	2853.3
20°	2557.6	2557.6	2559.9	2571.4	2576.0	2587.6	2613.0	2643.0	2721.6	2756.3	2751.6
22.5°	2580.7	2571.4	2608.4	2675.4	2673.1	2675.4	2652.3	2659.2	2703.1	2689.3	2656.9
25°	2118.6	2107.0	2148.6	2190.2	2250.3	2326.5	2516.0	2663.8	2719.3	2675.4	2603.8
27.5°	1970.7	1919.9	1908.4	1809.0	1718.9	1571.0	1557.2	1464.8	1455.5	1513.3	1566.4
30°	1400.1	1402.4	1400.1	1390.8	1383.9	1390.8	1397.8	1381.6	1386.2	1423.2	1407.0
32.5°	1365.4	1365.4	1356.2	1351.6	1330.8	1323.8	1312.3	1282.2	1286.9	1314.6	1307.7
35°	1273.0	1268.4	1270.7	1259.1	1222.2	1192.1	1187.5	1162.1	1162.1	1178.3	1171.3
37.5°	1134.4	1127.5	1155.2	1152.9	1122.8	1111.3	1099.7	1083.6	1083.6	1097.4	1083.6
40°	1025.8	1021.2	1051.2	1060.5	1042.0	1046.6	1048.9	1035.0	1048.9	1051.2	1032.7
42.5°	910.3	908.0	933.4	931.1	914.9	912.6	910.3	901.0	924.1	942.6	928.8
45°	774.0	767.0	785.5	792.5	787.8	780.9	778.6	778.6	792.5	801.7	787.8
47.5°	683.9	686.2	700.0	716.2	720.8	725.5	723.1	718.5	727.8	730.1	718.5
50°	653.8	656.1	676.9	695.4	709.3	718.5	718.5	711.6	718.5	711.6	695.4
52.5°	667.7	667.7	695.4	723.1	746.2	762.4	764.7	755.5	755.5	737.0	711.6
55°	672.3	676.9	713.9	760.1	801.7	845.6	866.4	859.5	866.4	827.1	785.5
57.5°	628.4	640.0	676.9	732.4	787.8	857.1	901.0	905.7	903.3	868.7	817.9
60°	570.7	579.9	605.3	653.8	707.0	762.4	806.3	815.6	824.8	808.6	762.4
62.5°	531.4	536.0	556.8	591.5	628.4	658.5	674.6	672.3	681.6	676.9	642.3
65°	496.7	499.0	522.1	549.9	573.0	603.0	607.6	607.6	614.6	605.3	577.6
67.5°	459.8	459.8	478.2	503.7	531.4	556.8	563.7	566.0	575.3	566.0	545.2
70°	427.4	427.4	443.6	464.4	485.2	510.6	517.5	519.8	531.4	519.8	499.0
72.5°	397.4	397.4	411.2	429.7	448.2	469.0	475.9	478.2	487.5	475.9	459.8
75°	365.0	367.3	378.9	395.1	411.2	429.7	439.0	439.0	445.9	432.0	418.2
77.5°	332.7	335.0	346.6	360.4	374.3	392.8	397.4	399.7	406.6	392.8	378.9
80°	300.3	305.0	314.2	325.8	339.6	353.5	362.7	362.7	367.3	353.5	344.2
82.5°	270.3	274.9	281.9	291.1	305.0	318.8	328.1	328.1	330.4	318.8	307.3
85°	240.3	244.9	251.8	258.8	270.3	284.2	293.4	293.4	295.7	284.2	274.9
87.5°	212.6	217.2	221.8	228.7	238.0	251.8	261.1	261.1	261.1	251.8	242.6
90°	184.8	187.1	191.8	198.7	207.9	219.5	226.4	228.7	228.7	217.2	212.6
92.5°	164.0	164.0	168.7	173.3	182.5	191.8	198.7	201.0	201.0	194.1	187.1
95°	140.9	143.2	145.6	150.2	157.1	164.0	173.3	173.3	173.3	168.7	164.0
97.5°	124.8	122.4	124.8	127.1	134.0	138.6	145.6	147.9	147.9	143.2	140.9
100°	106.3	108.6	108.6	110.9	113.2	115.5	120.1	122.4	122.4	120.1	120.1
102.5°	99.3	97.0	97.0	97.0	97.0	97.0	99.3	99.3	101.7	99.3	97.0
105°	92.4	92.4	92.4	92.4	90.1	90.1	90.1	90.1	87.8	85.5	85.5
107.5°	90.1	90.1	90.1	90.1	87.8	87.8	85.5	85.5	83.2	80.9	78.6
110°	90.1	90.1	90.1	90.1	87.8	85.5	85.5	83.2	80.9	78.6	76.2



REPORT NUMBER: P691706

CATALOG NUMBER: CRTK2-C018-D-U-T3-7050-RMARROA5

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	94.7	94.7	94.7	94.7	90.1	87.8	85.5	85.5	80.9	78.6	76.2
115°	104.0	104.0	101.7	101.7	99.3	94.7	92.4	90.1	87.8	83.2	80.9
117.5°	113.2	113.2	113.2	113.2	110.9	106.3	101.7	99.3	97.0	90.1	87.8
120°	129.4	129.4	129.4	131.7	127.1	122.4	117.8	113.2	110.9	104.0	99.3
122.5°	150.2	147.9	152.5	154.8	152.5	145.6	138.6	134.0	129.4	120.1	115.5
125°	171.0	171.0	175.6	182.5	182.5	175.6	166.3	159.4	154.8	140.9	134.0
127.5°	196.4	196.4	203.3	214.9	217.2	210.2	201.0	191.8	184.8	166.3	159.4
130°	219.5	219.5	233.3	247.2	254.1	247.2	238.0	226.4	217.2	196.4	184.8
132.5°	238.0	240.3	256.4	274.9	284.2	281.9	270.3	261.1	251.8	226.4	212.6
135°	256.4	258.8	277.2	300.3	311.9	311.9	302.7	291.1	279.6	251.8	235.7
137.5°	265.7	268.0	291.1	314.2	328.1	332.7	328.1	316.5	305.0	274.9	254.1
140°	265.7	270.3	293.4	316.5	330.4	337.3	337.3	325.8	314.2	286.5	265.7
142.5°	258.8	263.4	284.2	307.3	321.1	330.4	332.7	323.4	311.9	284.2	263.4
145°	244.9	247.2	268.0	288.8	302.7	314.2	318.8	311.9	298.0	274.9	254.1
147.5°	221.8	221.8	240.3	256.4	274.9	286.5	293.4	288.8	277.2	256.4	238.0
150°	189.4	189.4	203.3	219.5	235.7	249.5	256.4	256.4	244.9	228.7	210.2
152.5°	150.2	152.5	161.7	175.6	191.8	203.3	212.6	212.6	205.6	191.8	175.6
155°	115.5	115.5	122.4	131.7	145.6	157.1	164.0	164.0	159.4	147.9	138.6
157.5°	83.2	83.2	87.8	97.0	106.3	115.5	122.4	122.4	117.8	110.9	104.0
160°	55.4	55.4	57.8	64.7	71.6	78.6	83.2	85.5	83.2	78.6	71.6
162.5°	30.0	30.0	32.3	37.0	41.6	48.5	50.8	53.1	53.1	48.5	46.2
165°	9.2	9.2	9.2	13.9	16.2	20.8	23.1	25.4	25.4	25.4	23.1
167.5°	2.3	2.3	2.3	2.3	2.3	2.3	4.6	6.9	6.9	6.9	6.9
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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





REPORT NUMBER: P691706

CATALOG NUMBER: CRTK2-C018-D-U-T3-7050-RMARROA5

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2
2.5°	4551.4	4722.4	4911.8	5105.9	5304.6	5491.7	5648.8	5773.6	5840.6	5856.7	5847.5
5°	4248.7	4449.7	4671.5	4897.9	5156.7	5454.7	5727.4	5923.7	6025.4	6041.6	6046.2
7.5°	3816.7	3992.3	4209.5	4470.5	4796.3	5115.1	5535.6	5829.0	5993.1	6037.0	6037.0
10°	3361.6	3516.4	3652.7	3881.4	4165.6	4463.6	4821.7	5092.0	5258.4	5311.5	5265.3
12.5°	3105.1	3172.1	3264.5	3433.2	3611.1	3837.5	4147.1	4322.7	4431.3	4463.6	4435.9
15°	2941.1	2975.7	3015.0	3086.6	3211.4	3352.3	3534.8	3643.4	3710.4	3749.7	3735.8
17.5°	2862.5	2862.5	2855.6	2871.8	2904.1	2968.8	3093.6	3132.8	3162.9	3179.0	3169.8
20°	2742.4	2705.4	2675.4	2629.2	2610.7	2608.4	2638.4	2680.0	2677.7	2680.0	2661.5
22.5°	2622.3	2546.0	2472.1	2402.8	2324.2	2284.9	2257.2	2271.1	2259.5	2271.1	2259.5
25°	2564.5	2409.7	2261.8	2093.2	1952.2	1843.7	1772.0	1728.1	1654.2	1681.9	1656.5
27.5°	1591.8	1527.1	1464.8	1340.0	1222.2	1180.6	1145.9	1127.5	1113.6	1120.5	1115.9
30°	1379.3	1326.1	1277.6	1212.9	1122.8	1067.4	1025.8	988.8	977.3	979.6	977.3
32.5°	1279.9	1238.3	1178.3	1111.3	1030.4	961.1	912.6	877.9	859.5	871.0	861.8
35°	1145.9	1104.3	1053.5	991.1	921.8	859.5	813.2	780.9	760.1	764.7	762.4
37.5°	1058.1	1018.9	975.0	908.0	847.9	787.8	741.6	709.3	688.5	693.1	688.5
40°	1007.3	963.4	917.2	857.1	797.1	734.7	690.8	653.8	633.0	633.0	633.0
42.5°	903.3	868.7	829.4	767.0	713.9	660.8	616.9	589.1	566.0	568.3	563.7
45°	771.7	746.2	716.2	674.6	630.7	589.1	552.2	531.4	512.9	515.2	512.9
47.5°	704.7	681.6	646.9	614.6	575.3	538.3	506.0	480.6	466.7	469.0	464.4
50°	679.2	651.5	612.2	568.3	531.4	494.4	462.1	443.6	429.7	432.0	429.7
52.5°	688.5	644.6	589.1	536.0	492.1	455.1	429.7	408.9	399.7	402.0	397.4
55°	748.6	672.3	589.1	522.1	466.7	425.1	399.7	376.6	367.3	367.3	367.3
57.5°	769.3	686.2	582.2	506.0	445.9	404.3	374.3	351.2	341.9	341.9	341.9
60°	720.8	649.2	554.5	482.9	427.4	388.1	362.7	346.6	339.6	339.6	339.6
62.5°	616.9	570.7	499.0	441.3	399.7	365.0	339.6	318.8	311.9	309.6	309.6
65°	559.1	515.2	455.1	406.6	369.7	341.9	318.8	302.7	293.4	293.4	293.4
67.5°	522.1	480.6	425.1	378.9	344.2	314.2	293.4	277.2	272.6	270.3	270.3
70°	480.6	441.3	385.8	344.2	311.9	286.5	265.7	251.8	247.2	247.2	244.9
72.5°	439.0	402.0	348.9	309.6	279.6	256.4	238.0	226.4	221.8	219.5	219.5
75°	399.7	362.7	314.2	277.2	249.5	228.7	212.6	201.0	196.4	196.4	196.4
77.5°	362.7	328.1	281.9	247.2	224.1	203.3	189.4	180.2	175.6	175.6	175.6
80°	328.1	293.4	251.8	219.5	196.4	180.2	168.7	159.4	154.8	157.1	154.8
82.5°	291.1	263.4	224.1	194.1	175.6	159.4	147.9	140.9	136.3	138.6	136.3
85°	261.1	233.3	196.4	171.0	152.5	138.6	129.4	122.4	117.8	120.1	117.8
87.5°	231.0	205.6	173.3	150.2	134.0	122.4	110.9	106.3	104.0	104.0	101.7
90°	198.7	175.6	147.9	129.4	113.2	104.0	94.7	90.1	87.8	85.5	85.5
92.5°	175.6	157.1	131.7	115.5	101.7	94.7	85.5	80.9	78.6	78.6	78.6
95°	154.8	138.6	117.8	104.0	94.7	85.5	78.6	76.2	73.9	73.9	71.6
97.5°	134.0	120.1	106.3	94.7	85.5	78.6	71.6	69.3	67.0	67.0	67.0
100°	113.2	104.0	92.4	83.2	76.2	71.6	64.7	62.4	60.1	60.1	60.1
102.5°	94.7	87.8	78.6	71.6	67.0	62.4	57.8	55.4	53.1	53.1	53.1
105°	83.2	76.2	71.6	64.7	60.1	55.4	53.1	48.5	46.2	46.2	46.2
107.5°	76.2	71.6	67.0	62.4	57.8	53.1	48.5	43.9	41.6	41.6	41.6
110°	73.9	69.3	64.7	60.1	55.4	50.8	48.5	41.6	39.3	39.3	39.3



REPORT NUMBER: P691706  
 CATALOG NUMBER: CRTK2-C018-D-U-T3-7050-RMARROA5

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	73.9	71.6	67.0	62.4	57.8	53.1	48.5	39.3	37.0	37.0	37.0
115°	78.6	73.9	69.3	64.7	60.1	55.4	50.8	39.3	37.0	37.0	37.0
117.5°	85.5	80.9	73.9	69.3	64.7	57.8	50.8	41.6	37.0	37.0	37.0
120°	97.0	90.1	83.2	76.2	69.3	62.4	53.1	41.6	34.7	37.0	37.0
122.5°	110.9	104.0	92.4	83.2	76.2	67.0	55.4	43.9	34.7	37.0	37.0
125°	129.4	120.1	106.3	94.7	83.2	71.6	57.8	43.9	34.7	37.0	39.3
127.5°	150.2	136.3	120.1	104.0	90.1	76.2	62.4	46.2	34.7	39.3	39.3
130°	173.3	157.1	136.3	115.5	99.3	80.9	64.7	46.2	37.0	37.0	37.0
132.5°	198.7	175.6	147.9	124.8	104.0	83.2	64.7	46.2	37.0	37.0	37.0
135°	217.2	189.4	159.4	131.7	108.6	85.5	67.0	46.2	34.7	34.7	34.7
137.5°	233.3	201.0	168.7	136.3	110.9	85.5	64.7	43.9	34.7	32.3	32.3
140°	242.6	205.6	168.7	136.3	108.6	83.2	60.1	41.6	30.0	30.0	30.0
142.5°	242.6	203.3	166.3	131.7	101.7	78.6	57.8	37.0	27.7	27.7	27.7
145°	233.3	194.1	157.1	124.8	94.7	71.6	50.8	34.7	25.4	25.4	25.4
147.5°	217.2	177.9	143.2	113.2	83.2	62.4	43.9	27.7	20.8	20.8	20.8
150°	194.1	157.1	124.8	97.0	71.6	50.8	37.0	23.1	16.2	16.2	16.2
152.5°	161.7	131.7	101.7	80.9	57.8	41.6	27.7	18.5	13.9	13.9	13.9
155°	127.1	104.0	80.9	62.4	43.9	30.0	20.8	13.9	9.2	9.2	9.2
157.5°	97.0	78.6	60.1	46.2	32.3	23.1	16.2	9.2	6.9	6.9	6.9
160°	67.0	53.1	41.6	32.3	20.8	16.2	11.6	6.9	4.6	4.6	4.6
162.5°	43.9	34.7	25.4	18.5	13.9	9.2	6.9	4.6	2.3	2.3	2.3
165°	20.8	16.2	13.9	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0
167.5°	6.9	4.6	4.6	2.3	2.3	2.3	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)