

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: P690878

Luminaire Tested: **CRTK2-C01-5TLD-U-T3-7050-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690878
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-C01-5TLD-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: 7339 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

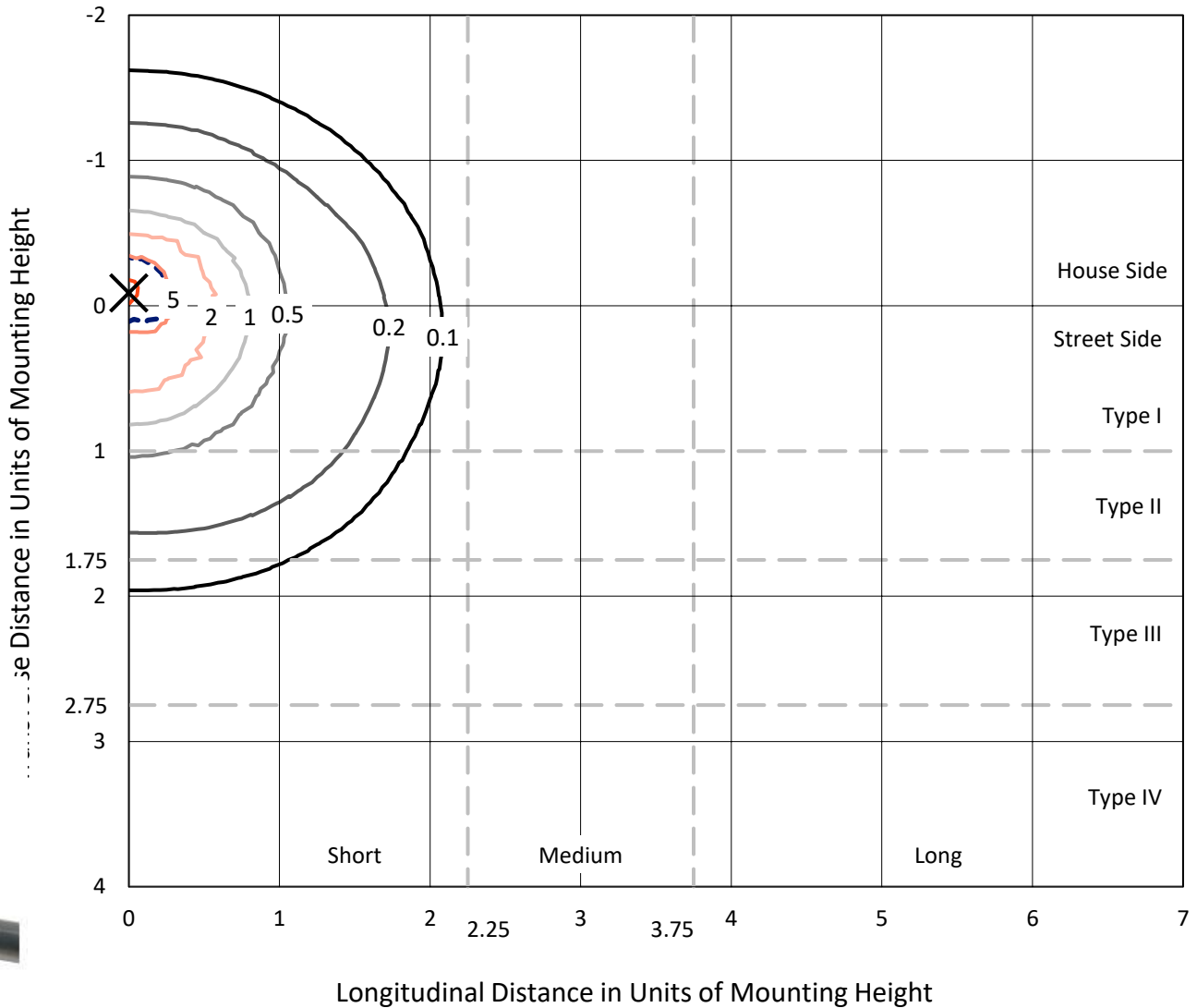
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P690878
 CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7050-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

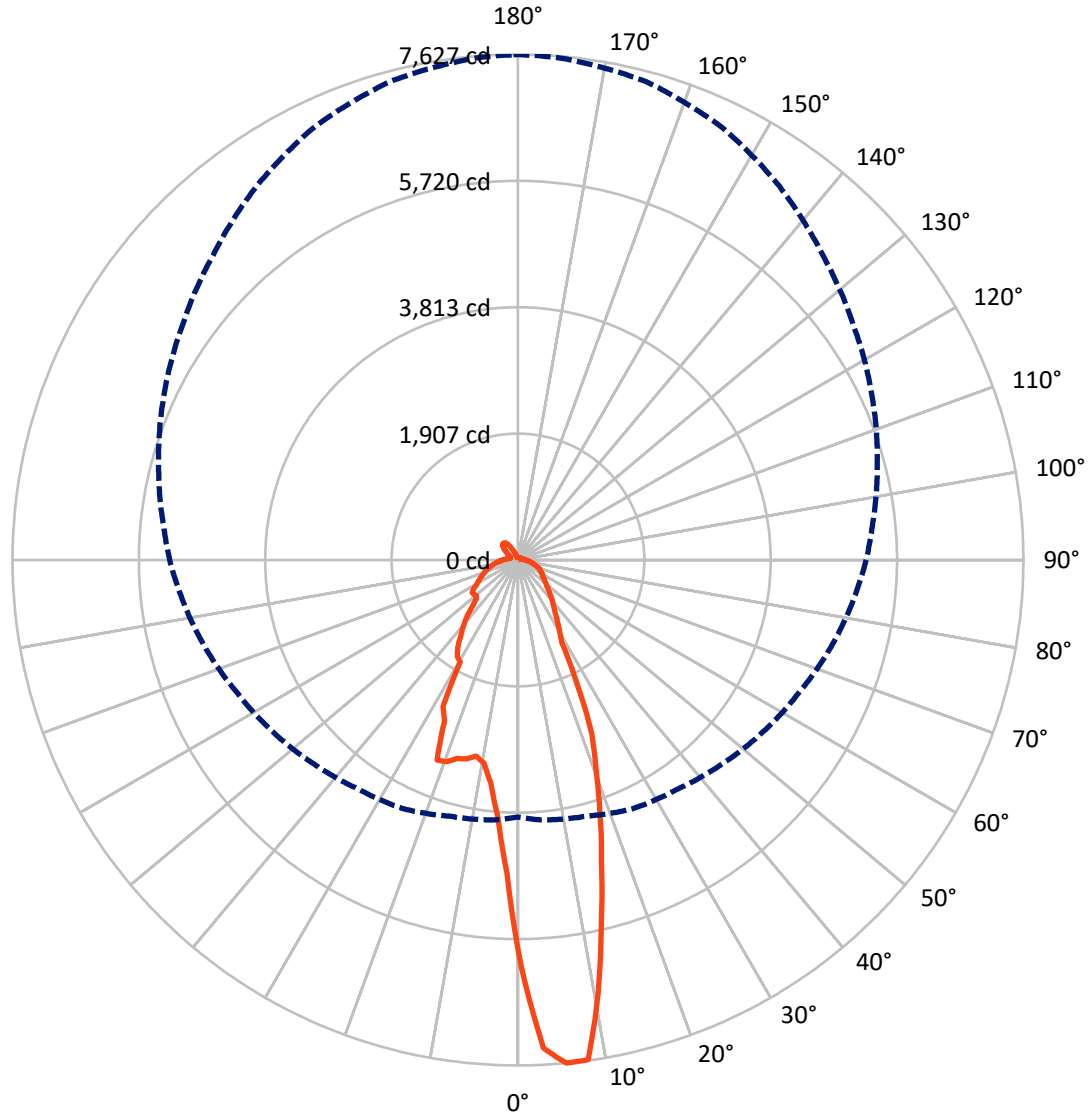
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type I - Short - N/A

REPORT NUMBER: P690878
CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7050-RMARROA5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P690878

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7050-RMARROA5

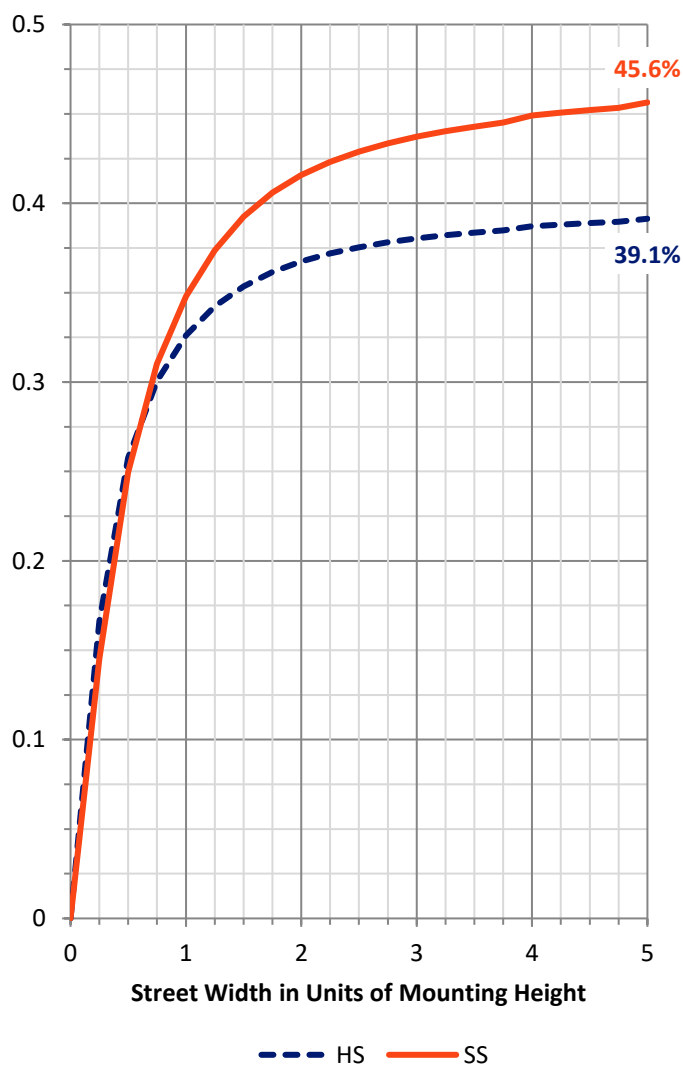
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2949.7	316.3	3265.9
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	3442.2	630.8	4073.0
	% Fixture	46.9	8.6	55.5
Total	Lumens	6391.9	947.1	7339.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.3	6.7
10°-20°	1058.0	14.4
20°-30°	1165.0	15.9
30°-40°	856.0	11.7
40°-50°	717.2	9.8
50°-60°	719.6	9.8
60°-70°	616.3	8.4
70°-80°	459.2	6.3
80°-90°	307.2	4.2
90°-100°	182.5	2.5
100°-110°	106.0	1.4
110°-120°	98.6	1.3
120°-130°	142.9	1.9
130°-140°	192.4	2.6
140°-150°	155.8	2.1
150°-160°	61.5	0.8
160°-170°	7.5	0.1
170°-180°	0.0	0.0
0°-90°	6391.9	87.1
0°-180°	7339.0	100.0

Coefficient of Utilization



REPORT NUMBER: P690878

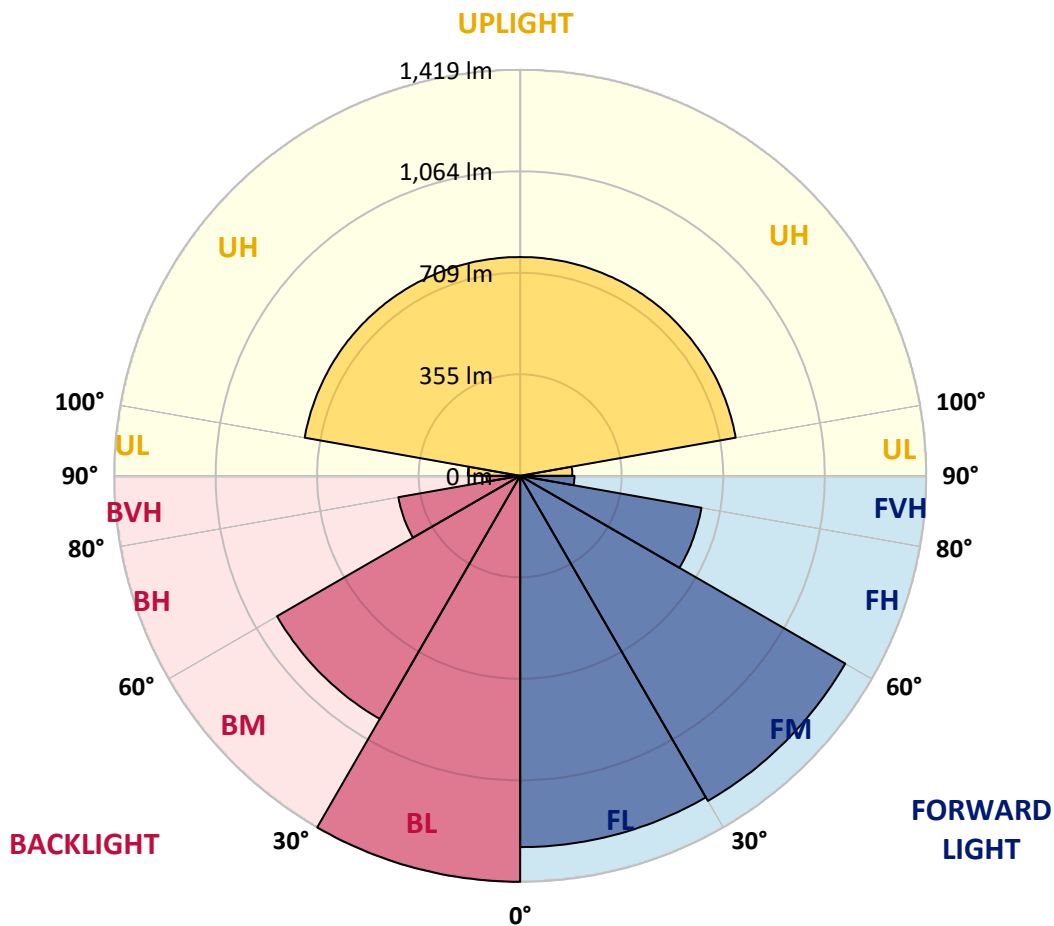
CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7050-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.6	17.7			
FM (30°-60°)	1311.8	17.9			
FH (60°-80°)	643.2	8.8			G0/660
FVH (80°-90°)	189.7	2.6			G2/225
BL (0°-30°)	1418.7	19.3	B3/2500		
BM (30°-60°)	981.1	13.4	B1/1000		
BH (60°-80°)	432.3	5.9	B1/500		G1/500
BVH (80°-90°)	117.6	1.6			G2/225
UL (90°-100°)	182.5	2.5		U3/500	
UH (100°-180°)	764.6	10.4		U4/1000	

BUG Rating: B3-U4-G2

Type I Short





REPORT NUMBER: P690878

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4
2.5°	4732.9	4802.8	4837.8	4942.7	4977.7	5044.7	5146.7	5248.7	5420.7	5548.9	5648.0
5°	3879.0	3937.3	4001.4	4135.5	4214.1	4354.0	4517.2	4692.1	4913.6	5138.0	5254.6
7.5°	3380.6	3395.2	3488.5	3651.7	3794.5	3943.1	4120.9	4272.4	4424.0	4607.6	4724.2
10°	3106.7	3127.1	3188.3	3313.6	3436.0	3558.4	3698.3	3814.9	3969.3	4123.8	4193.7
12.5°	3025.1	3033.8	3086.3	3159.2	3237.8	3316.5	3424.4	3529.3	3666.3	3800.3	3846.9
15°	3098.0	3098.0	3106.7	3135.8	3176.6	3237.8	3319.4	3409.8	3535.1	3634.2	3683.7
17.5°	3132.9	3135.8	3159.2	3165.0	3202.9	3229.1	3302.0	3371.9	3491.4	3573.0	3599.2
20°	3226.2	3226.2	3229.1	3243.7	3249.5	3264.1	3296.1	3334.0	3433.1	3476.8	3471.0
22.5°	3255.3	3243.7	3290.3	3374.8	3371.9	3374.8	3345.7	3354.4	3409.8	3392.3	3351.5
25°	2672.5	2657.9	2710.3	2762.8	2838.6	2934.7	3173.7	3360.2	3430.2	3374.8	3284.5
27.5°	2485.9	2421.8	2407.3	2281.9	2168.3	1981.8	1964.3	1847.7	1836.0	1908.9	1975.9
30°	1766.1	1769.0	1766.1	1754.4	1745.7	1754.4	1763.2	1742.8	1748.6	1795.2	1774.8
32.5°	1722.4	1722.4	1710.7	1704.9	1678.7	1669.9	1655.4	1617.5	1623.3	1658.3	1649.5
35°	1605.8	1600.0	1602.9	1588.3	1541.7	1503.8	1498.0	1465.9	1465.9	1486.3	1477.6
37.5°	1430.9	1422.2	1457.2	1454.3	1416.4	1401.8	1387.2	1366.8	1366.8	1384.3	1366.8
40°	1294.0	1288.1	1326.0	1337.7	1314.4	1320.2	1323.1	1305.6	1323.1	1326.0	1302.7
42.5°	1148.3	1145.3	1177.4	1174.5	1154.1	1151.2	1148.3	1136.6	1165.7	1189.1	1171.6
45°	976.3	967.6	990.9	999.6	993.8	985.0	982.1	982.1	999.6	1011.3	993.8
47.5°	862.6	865.6	883.0	903.4	909.3	915.1	912.2	906.4	918.0	920.9	906.4
50°	824.8	827.7	853.9	877.2	894.7	906.4	906.4	897.6	906.4	897.6	877.2
52.5°	842.2	842.2	877.2	912.2	941.3	961.7	964.6	953.0	953.0	929.7	897.6
55°	848.1	853.9	900.5	958.8	1011.3	1066.7	1092.9	1084.1	1092.9	1043.3	990.9
57.5°	792.7	807.3	853.9	923.8	993.8	1081.2	1136.6	1142.4	1139.5	1095.8	1031.7
60°	719.8	731.5	763.6	824.8	891.8	961.7	1017.1	1028.8	1040.4	1020.0	961.7
62.5°	670.3	676.1	702.4	746.1	792.7	830.6	851.0	848.1	859.7	853.9	810.2
65°	626.6	629.5	658.6	693.6	722.8	760.6	766.5	766.5	775.2	763.6	728.6
67.5°	580.0	580.0	603.3	635.3	670.3	702.4	711.1	714.0	725.7	714.0	687.8
70°	539.2	539.2	559.6	585.8	612.0	644.1	652.8	655.7	670.3	655.7	629.5
72.5°	501.3	501.3	518.8	542.1	565.4	591.6	600.4	603.3	614.9	600.4	580.0
75°	460.5	463.4	478.0	498.4	518.8	542.1	553.7	553.7	562.5	545.0	527.5
77.5°	419.7	422.6	437.2	454.6	472.1	495.4	501.3	504.2	512.9	495.4	478.0
80°	378.9	384.7	396.4	410.9	428.4	445.9	457.6	457.6	463.4	445.9	434.2
82.5°	341.0	346.8	355.6	367.2	384.7	402.2	413.8	413.8	416.8	402.2	387.6
85°	303.1	308.9	317.7	326.4	341.0	358.5	370.1	370.1	373.0	358.5	346.8
87.5°	268.1	273.9	279.8	288.5	300.2	317.7	329.3	329.3	329.3	317.7	306.0
90°	233.1	236.1	241.9	250.6	262.3	276.9	285.6	288.5	288.5	273.9	268.1
92.5°	206.9	206.9	212.7	218.6	230.2	241.9	250.6	253.5	253.5	244.8	236.1
95°	177.8	180.7	183.6	189.4	198.2	206.9	218.6	218.6	218.6	212.7	206.9
97.5°	157.4	154.5	157.4	160.3	169.0	174.9	183.6	186.5	186.5	180.7	177.8
100°	134.1	137.0	137.0	139.9	142.8	145.7	151.5	154.5	154.5	151.5	151.5
102.5°	125.3	122.4	122.4	122.4	122.4	122.4	125.3	125.3	128.2	125.3	122.4
105°	116.6	116.6	116.6	116.6	113.7	113.7	113.7	113.7	110.7	107.8	107.8
107.5°	113.7	113.7	113.7	113.7	110.7	110.7	107.8	107.8	104.9	102.0	99.1
110°	113.7	113.7	113.7	113.7	110.7	107.8	107.8	104.9	102.0	99.1	96.2



REPORT NUMBER: P690878
 CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	119.5	119.5	119.5	119.5	113.7	110.7	107.8	107.8	102.0	99.1	96.2
115°	131.1	131.1	128.2	128.2	125.3	119.5	116.6	113.7	110.7	104.9	102.0
117.5°	142.8	142.8	142.8	142.8	139.9	134.1	128.2	125.3	122.4	113.7	110.7
120°	163.2	163.2	163.2	166.1	160.3	154.5	148.6	142.8	139.9	131.1	125.3
122.5°	189.4	186.5	192.3	195.3	192.3	183.6	174.9	169.0	163.2	151.5	145.7
125°	215.7	215.7	221.5	230.2	230.2	221.5	209.8	201.1	195.3	177.8	169.0
127.5°	247.7	247.7	256.5	271.0	273.9	265.2	253.5	241.9	233.1	209.8	201.1
130°	276.9	276.9	294.3	311.8	320.6	311.8	300.2	285.6	273.9	247.7	233.1
132.5°	300.2	303.1	323.5	346.8	358.5	355.6	341.0	329.3	317.7	285.6	268.1
135°	323.5	326.4	349.7	378.9	393.4	393.4	381.8	367.2	352.6	317.7	297.3
137.5°	335.2	338.1	367.2	396.4	413.8	419.7	413.8	399.3	384.7	346.8	320.6
140°	335.2	341.0	370.1	399.3	416.8	425.5	425.5	410.9	396.4	361.4	335.2
142.5°	326.4	332.2	358.5	387.6	405.1	416.8	419.7	408.0	393.4	358.5	332.2
145°	308.9	311.8	338.1	364.3	381.8	396.4	402.2	393.4	376.0	346.8	320.6
147.5°	279.8	279.8	303.1	323.5	346.8	361.4	370.1	364.3	349.7	323.5	300.2
150°	239.0	239.0	256.5	276.9	297.3	314.7	323.5	323.5	308.9	288.5	265.2
152.5°	189.4	192.3	204.0	221.5	241.9	256.5	268.1	268.1	259.4	241.9	221.5
155°	145.7	145.7	154.5	166.1	183.6	198.2	206.9	206.9	201.1	186.5	174.9
157.5°	104.9	104.9	110.7	122.4	134.1	145.7	154.5	154.5	148.6	139.9	131.1
160°	69.9	69.9	72.9	81.6	90.3	99.1	104.9	107.8	104.9	99.1	90.3
162.5°	37.9	37.9	40.8	46.6	52.5	61.2	64.1	67.0	67.0	61.2	58.3
165°	11.7	11.7	11.7	17.5	20.4	26.2	29.1	32.1	32.1	32.1	29.1
167.5°	2.9	2.9	2.9	2.9	2.9	2.9	5.8	8.7	8.7	8.7	8.7
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	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: P690878

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4	6143.4
2.5°	5741.3	5956.9	6195.9	6440.7	6691.3	6927.4	7125.6	7283.0	7367.5	7387.9	7376.2
5°	5359.5	5613.0	5892.8	6178.4	6504.8	6880.8	7224.7	7472.4	7600.6	7621.0	7626.9
7.5°	4814.5	5036.0	5309.9	5639.3	6050.2	6452.4	6982.8	7352.9	7559.8	7615.2	7615.2
10°	4240.4	4435.6	4607.6	4896.1	5254.6	5630.5	6082.2	6423.2	6633.1	6700.1	6641.8
12.5°	3916.9	4001.4	4118.0	4330.7	4555.1	4840.7	5231.3	5452.7	5589.7	5630.5	5595.5
15°	3710.0	3753.7	3803.2	3893.6	4050.9	4228.7	4459.0	4595.9	4680.4	4730.0	4712.5
17.5°	3610.9	3610.9	3602.1	3622.5	3663.3	3744.9	3902.3	3951.9	3989.7	4010.1	3998.5
20°	3459.3	3412.7	3374.8	3316.5	3293.2	3290.3	3328.2	3380.6	3377.7	3380.6	3357.3
22.5°	3307.8	3211.6	3118.4	3030.9	2931.8	2882.3	2847.3	2864.8	2850.2	2864.8	2850.2
25°	3234.9	3039.7	2853.1	2640.4	2462.6	2325.7	2235.3	2179.9	2086.7	2121.6	2089.6
27.5°	2008.0	1926.4	1847.7	1690.3	1541.7	1489.2	1445.5	1422.2	1404.7	1413.5	1407.6
30°	1739.9	1672.8	1611.6	1530.0	1416.4	1346.4	1294.0	1247.3	1232.8	1235.7	1232.8
32.5°	1614.5	1562.1	1486.3	1401.8	1299.8	1212.4	1151.2	1107.5	1084.1	1098.7	1087.1
35°	1445.5	1393.1	1328.9	1250.3	1162.8	1084.1	1025.9	985.0	958.8	964.6	961.7
37.5°	1334.8	1285.2	1229.9	1145.3	1069.6	993.8	935.5	894.7	868.5	874.3	868.5
40°	1270.7	1215.3	1157.0	1081.2	1005.5	926.8	871.4	824.8	798.5	798.5	798.5
42.5°	1139.5	1095.8	1046.3	967.6	900.5	833.5	778.1	743.2	714.0	716.9	711.1
45°	973.4	941.3	903.4	851.0	795.6	743.2	696.5	670.3	647.0	649.9	647.0
47.5°	888.9	859.7	816.0	775.2	725.7	679.0	638.2	606.2	588.7	591.6	585.8
50°	856.8	821.8	772.3	716.9	670.3	623.7	582.9	559.6	542.1	545.0	542.1
52.5°	868.5	813.1	743.2	676.1	620.8	574.1	542.1	515.8	504.2	507.1	501.3
55°	944.2	848.1	743.2	658.6	588.7	536.2	504.2	475.0	463.4	463.4	463.4
57.5°	970.5	865.6	734.4	638.2	562.5	510.0	472.1	443.0	431.3	431.3	431.3
60°	909.3	818.9	699.4	609.1	539.2	489.6	457.6	437.2	428.4	428.4	428.4
62.5°	778.1	719.8	629.5	556.6	504.2	460.5	428.4	402.2	393.4	390.5	390.5
65°	705.3	649.9	574.1	512.9	466.3	431.3	402.2	381.8	370.1	370.1	370.1
67.5°	658.6	606.2	536.2	478.0	434.2	396.4	370.1	349.7	343.9	341.0	341.0
70°	606.2	556.6	486.7	434.2	393.4	361.4	335.2	317.7	311.8	311.8	308.9
72.5°	553.7	507.1	440.1	390.5	352.6	323.5	300.2	285.6	279.8	276.9	276.9
75°	504.2	457.6	396.4	349.7	314.7	288.5	268.1	253.5	247.7	247.7	247.7
77.5°	457.6	413.8	355.6	311.8	282.7	256.5	239.0	227.3	221.5	221.5	221.5
80°	413.8	370.1	317.7	276.9	247.7	227.3	212.7	201.1	195.3	198.2	195.3
82.5°	367.2	332.2	282.7	244.8	221.5	201.1	186.5	177.8	171.9	174.9	171.9
85°	329.3	294.3	247.7	215.7	192.3	174.9	163.2	154.5	148.6	151.5	148.6
87.5°	291.4	259.4	218.6	189.4	169.0	154.5	139.9	134.1	131.1	131.1	128.2
90°	250.6	221.5	186.5	163.2	142.8	131.1	119.5	113.7	110.7	107.8	107.8
92.5°	221.5	198.2	166.1	145.7	128.2	119.5	107.8	102.0	99.1	99.1	99.1
95°	195.3	174.9	148.6	131.1	119.5	107.8	99.1	96.2	93.3	93.3	90.3
97.5°	169.0	151.5	134.1	119.5	107.8	99.1	90.3	87.4	84.5	84.5	84.5
100°	142.8	131.1	116.6	104.9	96.2	90.3	81.6	78.7	75.8	75.8	75.8
102.5°	119.5	110.7	99.1	90.3	84.5	78.7	72.9	69.9	67.0	67.0	67.0
105°	104.9	96.2	90.3	81.6	75.8	69.9	67.0	61.2	58.3	58.3	58.3
107.5°	96.2	90.3	84.5	78.7	72.9	67.0	61.2	55.4	52.5	52.5	52.5
110°	93.3	87.4	81.6	75.8	69.9	64.1	61.2	52.5	49.5	49.5	49.5



REPORT NUMBER: P690878

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	93.3	90.3	84.5	78.7	72.9	67.0	61.2	49.5	46.6	46.6	46.6
115°	99.1	93.3	87.4	81.6	75.8	69.9	64.1	49.5	46.6	46.6	46.6
117.5°	107.8	102.0	93.3	87.4	81.6	72.9	64.1	52.5	46.6	46.6	46.6
120°	122.4	113.7	104.9	96.2	87.4	78.7	67.0	52.5	43.7	46.6	46.6
122.5°	139.9	131.1	116.6	104.9	96.2	84.5	69.9	55.4	43.7	46.6	46.6
125°	163.2	151.5	134.1	119.5	104.9	90.3	72.9	55.4	43.7	46.6	49.5
127.5°	189.4	171.9	151.5	131.1	113.7	96.2	78.7	58.3	43.7	49.5	49.5
130°	218.6	198.2	171.9	145.7	125.3	102.0	81.6	58.3	46.6	46.6	46.6
132.5°	250.6	221.5	186.5	157.4	131.1	104.9	81.6	58.3	46.6	46.6	46.6
135°	273.9	239.0	201.1	166.1	137.0	107.8	84.5	58.3	43.7	43.7	43.7
137.5°	294.3	253.5	212.7	171.9	139.9	107.8	81.6	55.4	43.7	40.8	40.8
140°	306.0	259.4	212.7	171.9	137.0	104.9	75.8	52.5	37.9	37.9	37.9
142.5°	306.0	256.5	209.8	166.1	128.2	99.1	72.9	46.6	35.0	35.0	35.0
145°	294.3	244.8	198.2	157.4	119.5	90.3	64.1	43.7	32.1	32.1	32.1
147.5°	273.9	224.4	180.7	142.8	104.9	78.7	55.4	35.0	26.2	26.2	26.2
150°	244.8	198.2	157.4	122.4	90.3	64.1	46.6	29.1	20.4	20.4	20.4
152.5°	204.0	166.1	128.2	102.0	72.9	52.5	35.0	23.3	17.5	17.5	17.5
155°	160.3	131.1	102.0	78.7	55.4	37.9	26.2	17.5	11.7	11.7	11.7
157.5°	122.4	99.1	75.8	58.3	40.8	29.1	20.4	11.7	8.7	8.7	8.7
160°	84.5	67.0	52.5	40.8	26.2	20.4	14.6	8.7	5.8	5.8	5.8
162.5°	55.4	43.7	32.1	23.3	17.5	11.7	8.7	5.8	2.9	2.9	2.9
165°	26.2	20.4	17.5	11.7	8.7	5.8	2.9	2.9	0.0	0.0	0.0
167.5°	8.7	5.8	5.8	2.9	2.9	2.9	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)