

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: P690938

Luminaire Tested: **CRTK2-C01-D-U-T2-7050-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C01-D-U-T2-7050-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7274 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

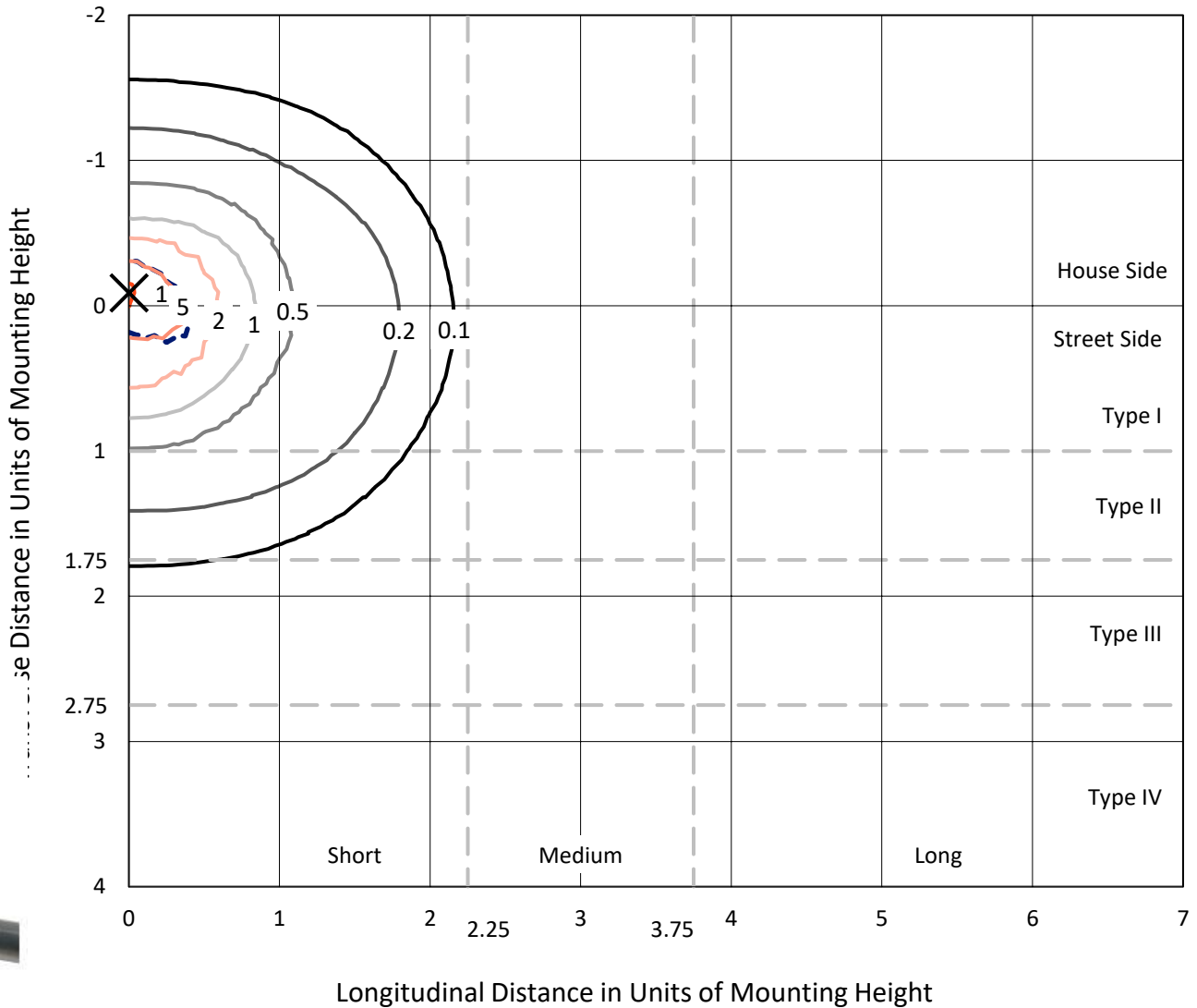
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P690938
 CATALOG NUMBER: CRTK2-C01-D-U-T2-7050-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

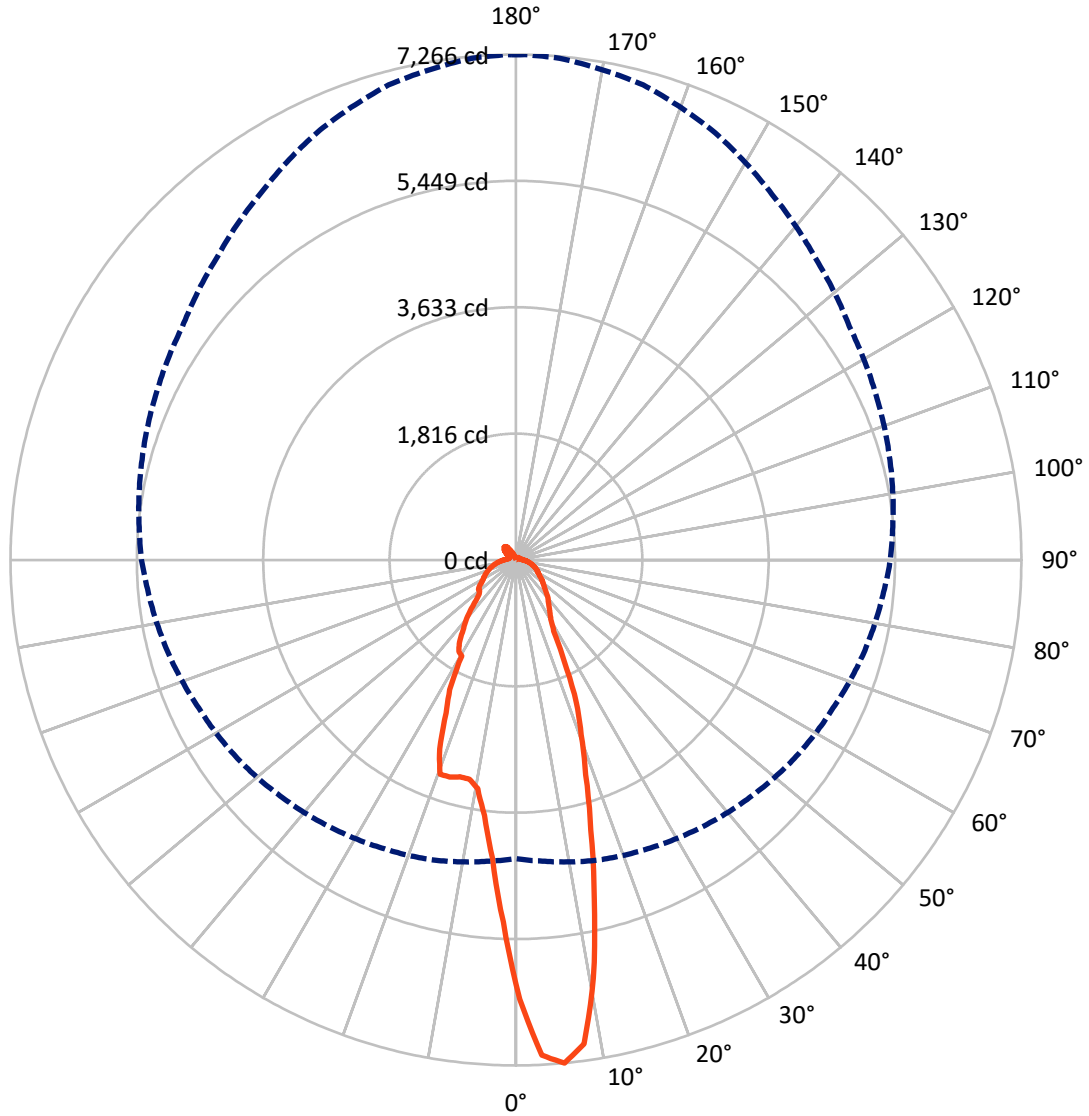
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type I - Short - N/A

REPORT NUMBER: P690938
CATALOG NUMBER: CRTK2-C01-D-U-T2-7050-RMARROA5

Luminous Intensity Polar Plot



— Vertical Plane Through 179-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

REPORT NUMBER: P690938

CATALOG NUMBER: CRTK2-C01-D-U-T2-7050-RMARROA5

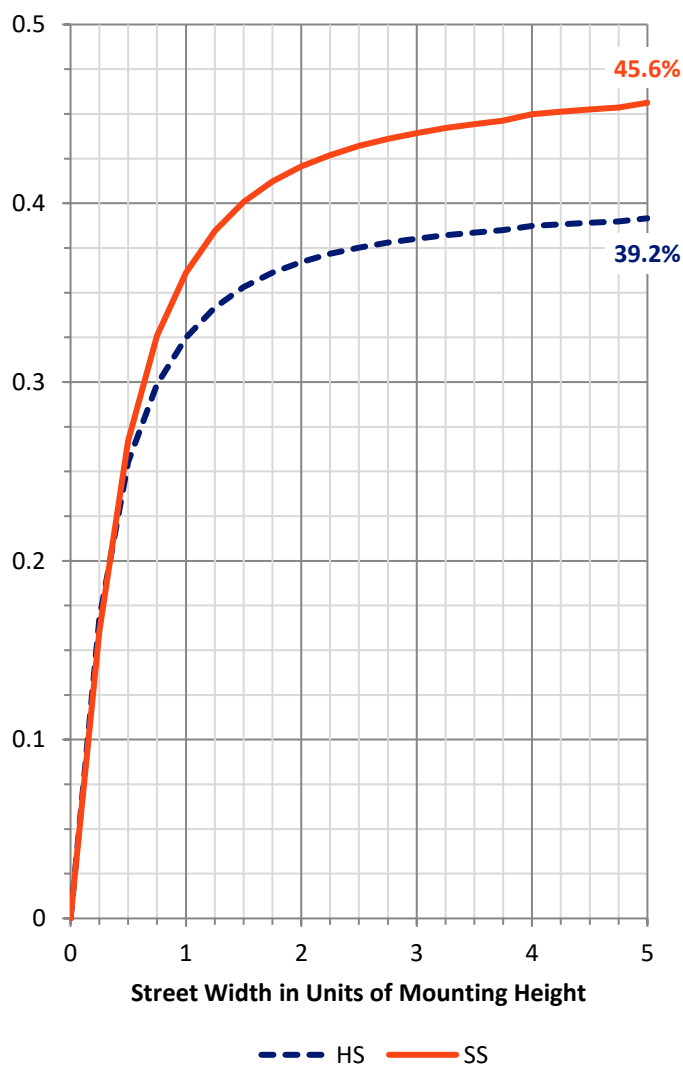
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2927.1	355.9	3283.0
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	3397.5	593.5	3991.0
	% Fixture	46.7	8.2	54.9
Total	Lumens	6324.6	949.4	7274.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.5	6.8
10°-20°	1052.8	14.5
20°-30°	1143.8	15.7
30°-40°	846.6	11.6
40°-50°	709.0	9.7
50°-60°	712.8	9.8
60°-70°	606.8	8.3
70°-80°	453.3	6.2
80°-90°	306.0	4.2
90°-100°	182.9	2.5
100°-110°	105.7	1.5
110°-120°	97.3	1.3
120°-130°	140.7	1.9
130°-140°	192.5	2.6
140°-150°	158.6	2.2
150°-160°	63.9	0.9
160°-170°	7.9	0.1
170°-180°	0.0	0.0
0°-90°	6324.6	86.9
0°-180°	7274.0	100.0

Coefficient of Utilization



REPORT NUMBER: P690938

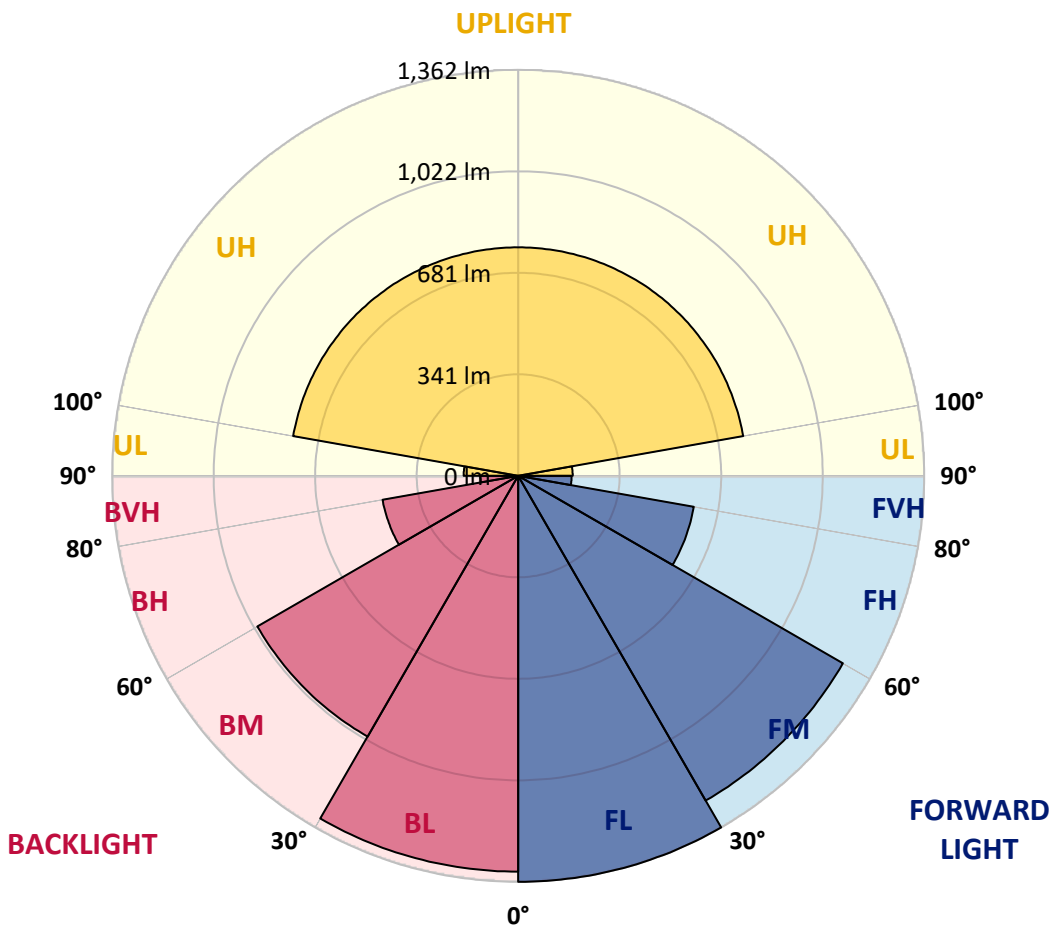
CATALOG NUMBER: CRTK2-C01-D-U-T2-7050-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.1	18.7			
FM (30°-60°)	1257.9	17.3			
FH (60°-80°)	598.3	8.2			G0/660
FVH (80°-90°)	179.2	2.5			G2/225
BL (0°-30°)	1328.0	18.3	B3/2500		
BM (30°-60°)	1010.4	13.9	B2/2500		
BH (60°-80°)	461.9	6.3	B1/500		G1/500
BVH (80°-90°)	126.8	1.7			G2/225
UL (90°-100°)	182.9	2.5		U3/500	
UH (100°-180°)	766.5	10.5		U4/1000	

BUG Rating: B3-U4-G2

Type I Short





REPORT NUMBER: P690938

CATALOG NUMBER: CRTK2-C01-D-U-T2-7050-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0
2.5°	5203.6	5232.8	5297.0	5329.1	5361.1	5402.0	5463.2	5509.9	5617.8	5717.0	5757.8
5°	4293.6	4346.1	4468.6	4567.8	4678.6	4795.3	4920.7	5031.5	5174.5	5305.7	5381.6
7.5°	3689.8	3733.6	3879.4	4071.9	4267.3	4430.7	4559.0	4643.6	4707.8	4760.3	4815.7
10°	3322.3	3360.2	3506.0	3678.1	3844.4	3996.1	4104.0	4185.7	4209.0	4261.5	4287.8
12.5°	3217.3	3234.8	3336.9	3456.5	3558.5	3707.3	3835.6	3923.1	3961.1	4007.7	4022.3
15°	3220.2	3220.2	3278.5	3354.4	3447.7	3561.5	3704.4	3809.4	3864.8	3891.1	3888.1
17.5°	3263.9	3261.0	3287.3	3348.5	3427.3	3541.0	3686.9	3794.8	3859.0	3867.7	3859.0
20°	3263.9	3266.9	3275.6	3345.6	3421.5	3523.5	3672.3	3762.7	3812.3	3786.1	3756.9
22.5°	2931.4	2928.5	3004.3	3153.1	3357.3	3570.2	3704.4	3815.2	3826.9	3730.6	3651.9
25°	2421.0	2400.6	2444.3	2511.4	2648.5	2896.4	3176.4	3596.5	3847.3	3791.9	3672.3
27.5°	2100.1	2073.9	2111.8	2082.6	2068.0	2050.5	2033.0	1983.4	2015.5	2044.7	2173.0
30°	1583.8	1589.7	1598.4	1615.9	1650.9	1720.9	1793.9	1837.6	1875.5	1951.4	1942.6
32.5°	1548.8	1545.9	1548.8	1566.3	1583.8	1627.6	1671.3	1694.7	1723.9	1796.8	1779.3
35°	1432.2	1426.3	1446.8	1455.5	1452.6	1464.3	1508.0	1534.3	1560.5	1607.2	1589.7
37.5°	1260.1	1265.9	1309.7	1333.0	1341.7	1368.0	1403.0	1426.3	1458.4	1493.4	1484.7
40°	1131.7	1128.8	1175.5	1207.6	1228.0	1268.8	1321.3	1356.3	1408.8	1438.0	1417.6
42.5°	974.2	985.9	1020.9	1053.0	1058.8	1079.2	1125.9	1166.7	1230.9	1274.7	1263.0
45°	819.6	828.4	857.6	883.8	904.2	930.5	965.5	1000.5	1053.0	1088.0	1085.1
47.5°	723.4	732.1	755.5	787.5	816.7	854.6	889.6	924.6	974.2	1000.5	991.7
50°	685.5	691.3	717.5	752.5	796.3	843.0	889.6	927.6	974.2	991.7	977.1
52.5°	682.5	682.5	714.6	767.1	828.4	892.6	953.8	1006.3	1050.1	1050.1	1020.9
55°	641.7	647.5	688.4	758.4	851.7	956.7	1064.6	1163.8	1222.2	1210.5	1155.1
57.5°	583.4	586.3	630.0	697.1	796.3	924.6	1070.5	1195.9	1265.9	1280.5	1222.2
60°	548.4	551.3	580.5	644.6	729.2	831.3	965.5	1064.6	1134.6	1178.4	1131.7
62.5°	519.2	519.2	548.4	592.1	662.1	738.0	813.8	880.9	936.3	968.4	942.1
65°	487.1	487.1	507.5	548.4	603.8	676.7	735.0	784.6	834.2	857.6	834.2
67.5°	455.0	455.0	475.4	513.4	562.9	624.2	682.5	729.2	778.8	796.3	778.8
70°	422.9	422.9	443.4	475.4	522.1	580.5	624.2	673.8	720.5	732.1	717.5
72.5°	390.9	390.9	411.3	440.4	481.3	536.7	577.5	615.5	659.2	668.0	653.4
75°	361.7	361.7	376.3	405.4	443.4	492.9	533.8	568.8	603.8	603.8	592.1
77.5°	329.6	332.5	344.2	370.4	405.4	452.1	490.0	522.1	551.3	551.3	536.7
80°	297.5	300.4	312.1	335.4	367.5	411.3	446.3	475.4	501.7	501.7	487.1
82.5°	265.4	268.3	280.0	300.4	329.6	370.4	405.4	434.6	457.9	455.0	440.4
85°	236.3	239.2	247.9	265.4	291.7	332.5	364.6	390.9	411.3	408.4	396.7
87.5°	207.1	210.0	218.8	233.3	256.7	294.6	326.7	350.0	367.5	364.6	352.9
90°	180.8	180.8	189.6	204.2	224.6	256.7	285.9	306.3	323.8	317.9	306.3
92.5°	157.5	160.4	166.3	177.9	195.4	224.6	250.8	268.3	285.9	282.9	271.3
95°	140.0	140.0	145.8	154.6	169.2	192.5	218.8	233.3	245.0	245.0	236.3
97.5°	122.5	125.4	128.3	134.2	145.8	163.3	183.8	198.3	207.1	207.1	201.3
100°	110.8	113.8	113.8	119.6	125.4	137.1	151.7	163.3	172.1	172.1	169.2
102.5°	105.0	105.0	105.0	107.9	110.8	116.7	125.4	131.3	137.1	140.0	137.1
105°	99.2	99.2	99.2	102.1	102.1	107.9	110.8	116.7	119.6	119.6	116.7
107.5°	96.3	96.3	99.2	99.2	99.2	102.1	107.9	107.9	110.8	107.9	107.9
110°	99.2	99.2	99.2	99.2	99.2	102.1	105.0	105.0	105.0	105.0	102.1



REPORT NUMBER: P690938

CATALOG NUMBER: CRTK2-C01-D-U-T2-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	102.1	102.1	102.1	102.1	105.0	105.0	105.0	107.9	107.9	105.0	105.0
115°	110.8	110.8	110.8	110.8	110.8	113.8	113.8	113.8	113.8	110.8	107.9
117.5°	119.6	119.6	119.6	122.5	122.5	125.4	122.5	125.4	122.5	119.6	119.6
120°	134.2	134.2	137.1	140.0	142.9	142.9	140.0	142.9	142.9	137.1	134.2
122.5°	151.7	151.7	154.6	163.3	166.3	169.2	166.3	166.3	166.3	160.4	157.5
125°	169.2	172.1	177.9	189.6	198.3	204.2	198.3	201.3	201.3	192.5	189.6
127.5°	189.6	192.5	204.2	221.7	236.3	242.1	239.2	242.1	245.0	230.4	224.6
130°	210.0	210.0	227.5	253.8	274.2	282.9	285.9	288.8	291.7	277.1	265.4
132.5°	227.5	227.5	250.8	282.9	309.2	323.8	329.6	335.4	341.3	320.9	306.3
135°	239.2	242.1	271.3	309.2	341.3	361.7	370.4	376.3	385.0	361.7	344.2
137.5°	247.9	253.8	282.9	323.8	358.8	387.9	405.4	414.2	420.0	396.7	373.4
140°	250.8	253.8	285.9	326.7	361.7	393.8	420.0	434.6	437.5	414.2	390.9
142.5°	242.1	247.9	277.1	317.9	352.9	387.9	417.1	431.7	434.6	414.2	390.9
145°	230.4	233.3	259.6	297.5	332.5	370.4	402.5	417.1	417.1	399.6	376.3
147.5°	210.0	212.9	236.3	268.3	303.4	341.3	373.4	387.9	390.9	373.4	352.9
150°	180.8	183.8	201.3	227.5	262.5	300.4	329.6	347.1	347.1	329.6	315.0
152.5°	145.8	148.8	163.3	183.8	212.9	247.9	274.2	291.7	291.7	280.0	262.5
155°	113.8	113.8	125.4	142.9	163.3	189.6	210.0	224.6	227.5	215.8	204.2
157.5°	81.7	81.7	90.4	105.0	122.5	142.9	157.5	169.2	169.2	160.4	154.6
160°	55.4	55.4	61.3	70.0	81.7	96.3	107.9	119.6	119.6	113.8	107.9
162.5°	29.2	29.2	35.0	40.8	49.6	61.3	67.1	75.8	75.8	72.9	70.0
165°	8.8	8.8	11.7	14.6	20.4	26.3	29.2	35.0	37.9	35.0	32.1
167.5°	0.0	0.0	2.9	2.9	2.9	2.9	5.8	8.8	8.8	8.8	8.8
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



REPORT NUMBER: P690938

CATALOG NUMBER: CRTK2-C01-D-U-T2-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0	6312.0
2.5°	5801.6	5985.4	6151.6	6323.7	6536.6	6723.3	6924.6	7067.5	7128.8	7128.8	7152.1
5°	5437.0	5565.3	5699.5	5851.2	6104.9	6417.0	6775.8	7070.4	7239.6	7265.8	7262.9
7.5°	4833.2	4920.7	5057.8	5227.0	5460.3	5740.3	6201.2	6662.1	6968.3	7023.7	7003.3
10°	4302.3	4384.0	4465.7	4529.8	4696.1	4917.8	5256.1	5705.3	6058.3	6113.7	6069.9
12.5°	4031.1	4057.3	4054.4	4092.3	4159.4	4270.3	4442.3	4701.9	4944.0	4996.5	4958.6
15°	3888.1	3850.2	3791.9	3724.8	3719.0	3736.5	3780.2	3885.2	3987.3	4031.1	4001.9
17.5°	3829.8	3739.4	3619.8	3488.5	3401.0	3319.4	3263.9	3228.9	3243.5	3246.4	3223.1
20°	3692.7	3584.8	3392.3	3205.6	3065.6	2922.7	2800.2	2709.7	2695.2	2680.6	2663.1
22.5°	3538.1	3354.4	3123.9	2896.4	2689.3	2499.7	2362.6	2254.7	2213.9	2228.5	2219.7
25°	3506.0	3199.8	2919.8	2552.2	2289.7	2076.8	1820.1	1645.1	1566.3	1610.1	1580.9
27.5°	2103.0	2111.8	1954.3	1732.6	1543.0	1417.6	1303.8	1210.5	1158.0	1158.0	1163.8
30°	1904.7	1820.1	1715.1	1578.0	1411.7	1286.3	1160.9	1058.8	1003.4	988.8	994.6
32.5°	1741.4	1683.0	1583.8	1452.6	1300.9	1172.6	1041.3	948.0	895.5	892.6	889.6
35°	1566.3	1505.1	1423.4	1309.7	1178.4	1058.8	945.1	863.4	816.7	819.6	819.6
37.5°	1446.8	1391.3	1318.4	1210.5	1090.9	971.3	869.2	793.4	755.5	755.5	752.5
40°	1385.5	1321.3	1242.6	1143.4	1032.6	907.1	810.9	738.0	705.9	705.9	703.0
42.5°	1251.3	1195.9	1143.4	1041.3	930.5	828.4	738.0	673.8	641.7	641.7	641.7
45°	1061.7	1029.6	988.8	918.8	828.4	743.8	668.0	606.7	580.5	577.5	577.5
47.5°	980.1	945.1	895.5	831.3	758.4	679.6	606.7	562.9	536.7	536.7	536.7
50°	956.7	915.9	848.8	773.0	697.1	627.1	562.9	522.1	498.8	498.8	501.7
52.5°	988.8	921.7	831.3	738.0	659.2	580.5	525.0	484.2	466.7	466.7	463.8
55°	1099.6	974.2	843.0	729.2	630.0	545.4	487.1	443.4	422.9	422.9	422.9
57.5°	1160.9	1012.1	851.7	717.5	603.8	519.2	457.9	411.3	390.9	390.9	390.9
60°	1090.9	968.4	816.7	694.2	583.4	495.9	431.7	387.9	367.5	364.6	361.7
62.5°	913.0	837.1	729.2	627.1	539.6	463.8	411.3	367.5	347.1	347.1	344.2
65°	813.8	749.6	656.3	568.8	495.9	431.7	382.1	347.1	326.7	323.8	323.8
67.5°	758.4	700.0	606.7	525.0	457.9	399.6	352.9	320.9	306.3	300.4	300.4
70°	697.1	633.0	551.3	478.4	417.1	364.6	326.7	294.6	280.0	277.1	274.2
72.5°	635.9	577.5	501.7	431.7	376.3	332.5	297.5	268.3	253.8	250.8	250.8
75°	571.7	516.3	443.4	385.0	338.4	297.5	265.4	242.1	230.4	227.5	224.6
77.5°	519.2	469.6	399.6	344.2	300.4	268.3	239.2	218.8	207.1	207.1	204.2
80°	469.6	422.9	355.9	306.3	268.3	236.3	212.9	195.4	186.7	183.8	183.8
82.5°	422.9	376.3	315.0	271.3	236.3	210.0	186.7	172.1	163.3	163.3	163.3
85°	379.2	335.4	280.0	239.2	207.1	183.8	163.3	148.8	142.9	140.0	142.9
87.5°	335.4	294.6	247.9	210.0	180.8	157.5	140.0	128.3	122.5	122.5	122.5
90°	294.6	256.7	212.9	177.9	154.6	134.2	119.6	107.9	105.0	102.1	102.1
92.5°	259.6	227.5	189.6	160.4	137.1	122.5	107.9	99.2	93.3	93.3	93.3
95°	227.5	198.3	169.2	142.9	125.4	110.8	99.2	90.4	87.5	87.5	87.5
97.5°	195.4	172.1	148.8	128.3	113.8	102.1	90.4	84.6	81.7	78.8	81.7
100°	163.3	145.8	128.3	113.8	102.1	90.4	81.7	75.8	72.9	72.9	72.9
102.5°	131.3	122.5	107.9	96.3	87.5	81.7	72.9	67.1	64.2	64.2	64.2
105°	113.8	105.0	96.3	87.5	81.7	72.9	67.1	61.3	58.3	58.3	58.3
107.5°	105.0	99.2	90.4	84.6	75.8	70.0	64.2	55.4	52.5	52.5	52.5
110°	102.1	96.3	90.4	81.7	75.8	70.0	64.2	52.5	49.6	49.6	49.6



REPORT NUMBER: P690938
 CATALOG NUMBER: CRTK2-C01-D-U-T2-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	102.1	96.3	90.4	84.6	78.8	70.0	64.2	52.5	46.7	46.7	46.7
115°	107.9	102.1	96.3	90.4	81.7	72.9	67.1	52.5	46.7	46.7	46.7
117.5°	116.7	110.8	105.0	96.3	87.5	78.8	67.1	52.5	49.6	49.6	49.6
120°	131.3	125.4	116.7	107.9	96.3	84.6	72.9	55.4	46.7	49.6	49.6
122.5°	151.7	145.8	134.2	119.6	107.9	93.3	75.8	58.3	43.8	49.6	49.6
125°	180.8	172.1	154.6	137.1	119.6	102.1	81.7	61.3	46.7	52.5	52.5
127.5°	212.9	201.3	177.9	154.6	134.2	110.8	87.5	64.2	49.6	52.5	52.5
130°	250.8	230.4	201.3	172.1	145.8	119.6	93.3	67.1	52.5	52.5	52.5
132.5°	288.8	259.6	221.7	189.6	157.5	125.4	96.3	67.1	52.5	52.5	52.5
135°	320.9	285.9	242.1	201.3	163.3	128.3	99.2	67.1	52.5	52.5	52.5
137.5°	350.0	303.4	253.8	207.1	166.3	128.3	96.3	67.1	49.6	49.6	49.6
140°	364.6	312.1	259.6	207.1	163.3	125.4	90.4	61.3	46.7	46.7	46.7
142.5°	364.6	309.2	253.8	201.3	157.5	119.6	84.6	58.3	40.8	43.8	43.8
145°	352.9	297.5	242.1	189.6	145.8	107.9	75.8	49.6	37.9	37.9	37.9
147.5°	326.7	274.2	221.7	172.1	131.3	93.3	67.1	43.8	32.1	29.2	32.1
150°	291.7	242.1	192.5	148.8	110.8	78.8	55.4	35.0	26.3	26.3	26.3
152.5°	245.0	201.3	160.4	122.5	87.5	61.3	40.8	26.3	20.4	20.4	20.4
155°	192.5	157.5	125.4	93.3	67.1	46.7	32.1	20.4	14.6	14.6	14.6
157.5°	145.8	119.6	93.3	67.1	49.6	35.0	23.3	14.6	11.7	11.7	11.7
160°	102.1	81.7	64.2	46.7	32.1	23.3	14.6	8.8	5.8	5.8	5.8
162.5°	64.2	52.5	40.8	26.3	20.4	14.6	8.8	5.8	2.9	2.9	2.9
165°	29.2	26.3	17.5	11.7	8.8	5.8	2.9	2.9	0.0	0.0	0.0
167.5°	8.8	5.8	5.8	2.9	2.9	0.0	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)