

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: P691890

Luminaire Tested: **CRTK2-C01H-D-U-T3-7050-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691890
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-C01H-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: 8229 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

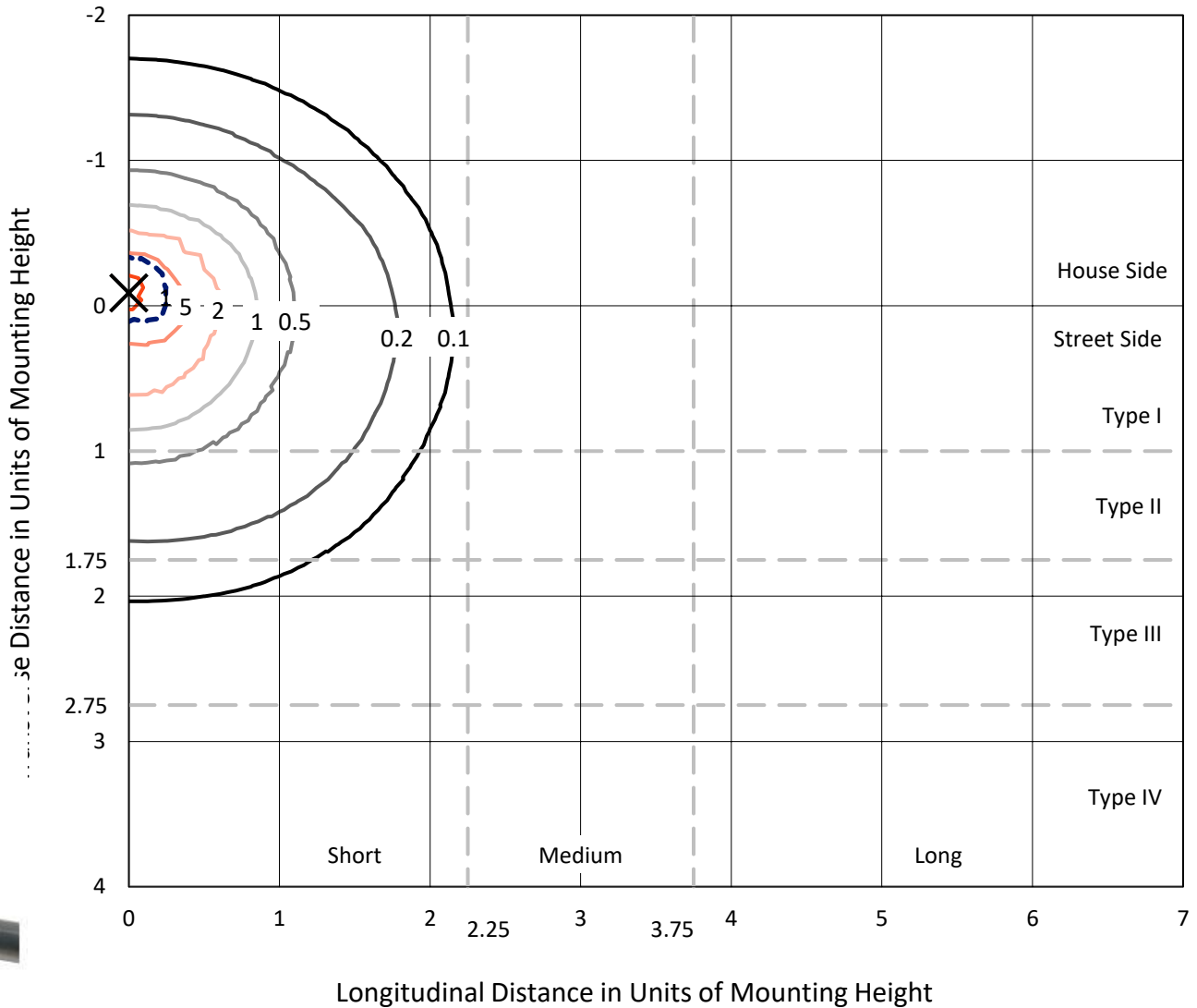
Input Watts (W): 70.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

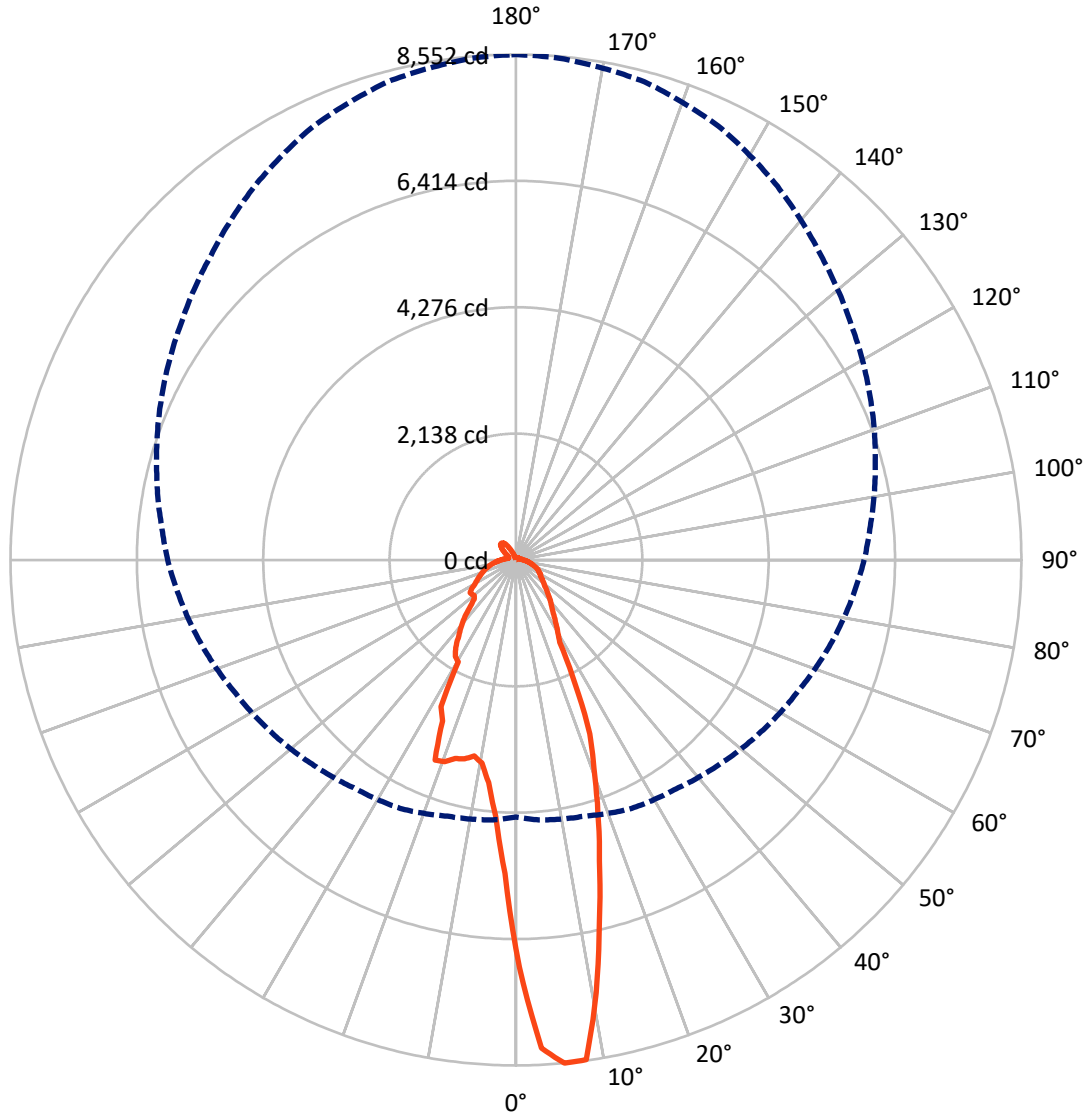
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type I - Short - N/A

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CATALOG NUMBER: CRTK2-C01H-D-U-T3-7050-RMARROA5

Luminous Intensity Polar Plot



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

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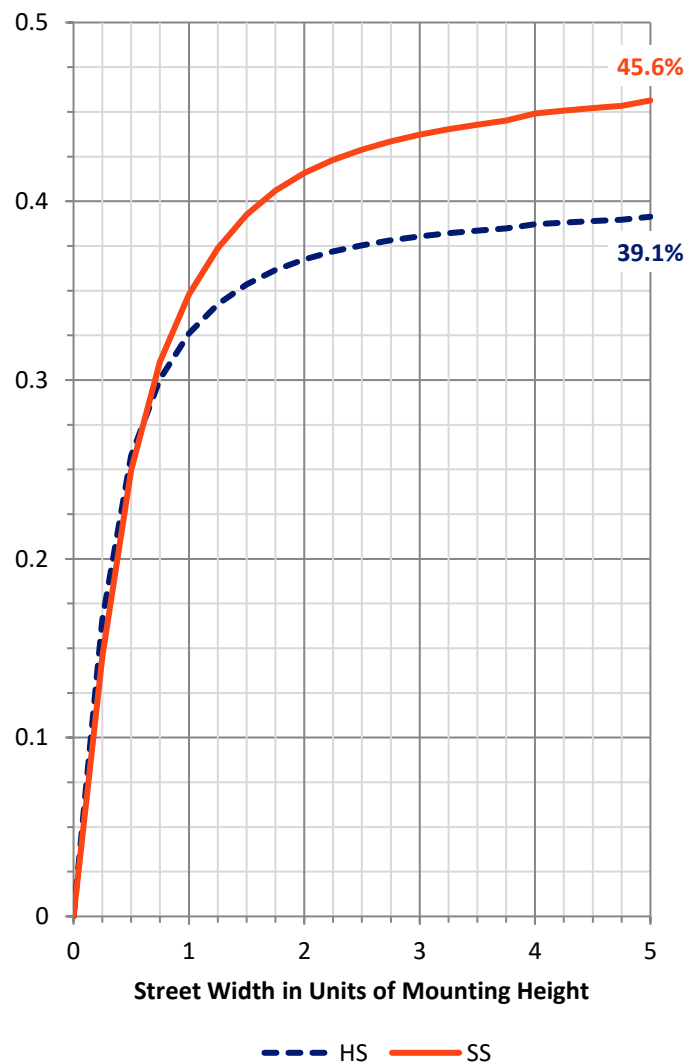
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3307.4	354.6	3662.0
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	3859.6	707.3	4567.0
	% Fixture	46.9	8.6	55.5
Total	Lumens	7167.0	1061.9	8229.0
	% Fixture	87.1	12.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.1	6.7
10°-20°	1186.3	14.4
20°-30°	1306.2	15.9
30°-40°	959.8	11.7
40°-50°	804.2	9.8
50°-60°	806.9	9.8
60°-70°	691.0	8.4
70°-80°	514.9	6.3
80°-90°	344.5	4.2
90°-100°	204.6	2.5
100°-110°	118.8	1.4
110°-120°	110.5	1.3
120°-130°	160.3	1.9
130°-140°	215.7	2.6
140°-150°	174.7	2.1
150°-160°	69.0	0.8
160°-170°	8.4	0.1
170°-180°	0.0	0.0
0°-90°	7167.0	87.1
0°-180°	8229.0	100.0



REPORT NUMBER: P691890

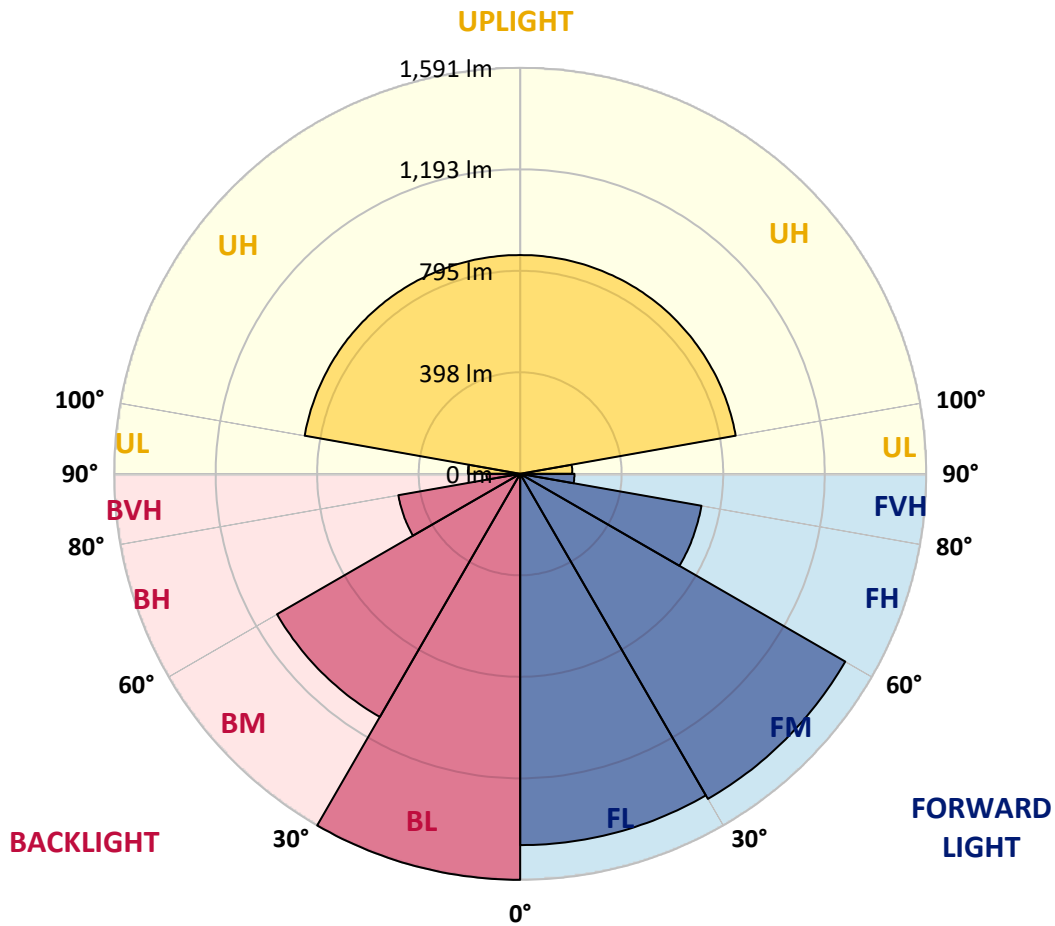
CATALOG NUMBER: CRTK2-C01H-D-U-T3-7050-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1454.9	17.7			
FM (30°-60°)	1470.9	17.9			
FH (60°-80°)	721.2	8.8			G1/1800
FVH (80°-90°)	212.7	2.6			G2/225
BL (0°-30°)	1590.8	19.3	B3/2500		
BM (30°-60°)	1100.1	13.4	B2/2500		
BH (60°-80°)	484.7	5.9	B1/500		G1/500
BVH (80°-90°)	131.8	1.6			G2/225
UL (90°-100°)	204.6	2.5		U3/500	
UH (100°-180°)	857.3	10.4		U4/1000	

BUG Rating: B3-U4-G2

Type I Short





REPORT NUMBER: P691890

CATALOG NUMBER: CRTK2-C01H-D-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5
2.5°	5306.9	5385.3	5424.5	5542.1	5581.4	5656.5	5770.9	5885.3	6078.1	6221.8	6332.9
5°	4349.4	4414.8	4486.7	4637.0	4725.2	4882.1	5065.0	5261.1	5509.5	5761.1	5891.8
7.5°	3790.6	3807.0	3911.5	4094.5	4254.6	4421.3	4620.6	4790.6	4960.5	5166.3	5297.1
10°	3483.4	3506.3	3574.9	3715.5	3852.7	3989.9	4146.8	4277.5	4450.7	4623.9	4702.3
12.5°	3391.9	3401.8	3460.6	3542.3	3630.5	3718.7	3839.6	3957.3	4110.9	4261.2	4313.5
15°	3473.6	3473.6	3483.4	3516.1	3561.9	3630.5	3722.0	3823.3	3963.8	4074.9	4130.5
17.5°	3512.9	3516.1	3542.3	3548.8	3591.3	3620.7	3702.4	3780.8	3914.8	4006.3	4035.7
20°	3617.4	3617.4	3620.7	3637.0	3643.6	3659.9	3695.8	3738.3	3849.4	3898.5	3891.9
22.5°	3650.1	3637.0	3689.3	3784.1	3780.8	3784.1	3751.4	3761.2	3823.3	3803.7	3757.9
25°	2996.5	2980.2	3039.0	3097.8	3182.8	3290.6	3558.6	3767.7	3846.2	3784.1	3682.8
27.5°	2787.4	2715.5	2699.2	2558.7	2431.2	2222.1	2202.5	2071.8	2058.7	2140.4	2215.5
30°	1980.3	1983.5	1980.3	1967.2	1957.4	1967.2	1977.0	1954.1	1960.7	2012.9	1990.1
32.5°	1931.3	1931.3	1918.2	1911.6	1882.2	1872.4	1856.1	1813.6	1820.1	1859.4	1849.6
35°	1800.5	1794.0	1797.3	1780.9	1728.7	1686.2	1679.6	1643.7	1643.7	1666.6	1656.8
37.5°	1604.5	1594.7	1633.9	1630.6	1588.1	1571.8	1555.5	1532.6	1532.6	1552.2	1532.6
40°	1450.9	1444.4	1486.8	1499.9	1473.8	1480.3	1483.6	1464.0	1483.6	1486.8	1460.7
42.5°	1287.5	1284.2	1320.2	1316.9	1294.0	1290.8	1287.5	1274.4	1307.1	1333.3	1313.6
45°	1094.7	1084.9	1111.0	1120.8	1114.3	1104.5	1101.2	1101.2	1120.8	1133.9	1114.3
47.5°	967.3	970.5	990.1	1013.0	1019.5	1026.1	1022.8	1016.3	1029.3	1032.6	1016.3
50°	924.8	928.0	957.5	983.6	1003.2	1016.3	1016.3	1006.5	1016.3	1006.5	983.6
52.5°	944.4	944.4	983.6	1022.8	1055.5	1078.4	1081.6	1068.6	1068.6	1042.4	1006.5
55°	950.9	957.5	1009.7	1075.1	1133.9	1196.0	1225.4	1215.6	1225.4	1169.9	1111.0
57.5°	888.8	905.2	957.5	1035.9	1114.3	1212.3	1274.4	1281.0	1277.7	1228.7	1156.8
60°	807.1	820.2	856.2	924.8	999.9	1078.4	1140.5	1153.5	1166.6	1143.7	1078.4
62.5°	751.6	758.1	787.5	836.5	888.8	931.3	954.2	950.9	964.0	957.5	908.4
65°	702.6	705.8	738.5	777.7	810.4	852.9	859.4	859.4	869.2	856.2	816.9
67.5°	650.3	650.3	676.4	712.4	751.6	787.5	797.3	800.6	813.7	800.6	771.2
70°	604.5	604.5	627.4	656.8	686.2	722.2	732.0	735.2	751.6	735.2	705.8
72.5°	562.1	562.1	581.7	607.8	633.9	663.4	673.2	676.4	689.5	673.2	650.3
75°	516.3	519.6	535.9	558.8	581.7	607.8	620.9	620.9	630.7	611.1	591.5
77.5°	470.6	473.8	490.2	509.8	529.4	555.5	562.1	565.3	575.1	555.5	535.9
80°	424.8	431.3	444.4	460.8	480.4	500.0	513.0	513.0	519.6	500.0	486.9
82.5°	382.3	388.9	398.7	411.7	431.3	451.0	464.0	464.0	467.3	451.0	434.6
85°	339.8	346.4	356.2	366.0	382.3	401.9	415.0	415.0	418.3	401.9	388.9
87.5°	300.6	307.2	313.7	323.5	336.6	356.2	369.3	369.3	369.3	356.2	343.1
90°	261.4	264.7	271.2	281.0	294.1	310.4	320.2	323.5	323.5	307.2	300.6
92.5°	232.0	232.0	238.5	245.1	258.2	271.2	281.0	284.3	284.3	274.5	264.7
95°	199.3	202.6	205.9	212.4	222.2	232.0	245.1	245.1	245.1	238.5	232.0
97.5°	176.5	173.2	176.5	179.7	189.5	196.1	205.9	209.1	209.1	202.6	199.3
100°	150.3	153.6	153.6	156.9	160.1	163.4	169.9	173.2	173.2	169.9	169.9
102.5°	140.5	137.2	137.2	137.2	137.2	137.2	140.5	140.5	143.8	140.5	137.2
105°	130.7	130.7	130.7	130.7	127.4	127.4	127.4	127.4	124.2	120.9	120.9
107.5°	127.4	127.4	127.4	127.4	124.2	124.2	120.9	120.9	117.6	114.4	111.1
110°	127.4	127.4	127.4	127.4	124.2	120.9	120.9	117.6	114.4	111.1	107.8



REPORT NUMBER: P691890

CATALOG NUMBER: CRTK2-C01H-D-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	134.0	134.0	134.0	134.0	127.4	124.2	120.9	120.9	114.4	111.1	107.8
115°	147.0	147.0	143.8	143.8	140.5	134.0	130.7	127.4	124.2	117.6	114.4
117.5°	160.1	160.1	160.1	160.1	156.9	150.3	143.8	140.5	137.2	127.4	124.2
120°	183.0	183.0	183.0	186.3	179.7	173.2	166.7	160.1	156.9	147.0	140.5
122.5°	212.4	209.1	215.7	218.9	215.7	205.9	196.1	189.5	183.0	169.9	163.4
125°	241.8	241.8	248.4	258.2	258.2	248.4	235.3	225.5	218.9	199.3	189.5
127.5°	277.8	277.8	287.6	303.9	307.2	297.4	284.3	271.2	261.4	235.3	225.5
130°	310.4	310.4	330.0	349.7	359.5	349.7	336.6	320.2	307.2	277.8	261.4
132.5°	336.6	339.8	362.7	388.9	401.9	398.7	382.3	369.3	356.2	320.2	300.6
135°	362.7	366.0	392.1	424.8	441.1	441.1	428.1	411.7	395.4	356.2	333.3
137.5°	375.8	379.1	411.7	444.4	464.0	470.6	464.0	447.7	431.3	388.9	359.5
140°	375.8	382.3	415.0	447.7	467.3	477.1	477.1	460.8	444.4	405.2	375.8
142.5°	366.0	372.5	401.9	434.6	454.2	467.3	470.6	457.5	441.1	401.9	372.5
145°	346.4	349.7	379.1	408.5	428.1	444.4	451.0	441.1	421.5	388.9	359.5
147.5°	313.7	313.7	339.8	362.7	388.9	405.2	415.0	408.5	392.1	362.7	336.6
150°	268.0	268.0	287.6	310.4	333.3	352.9	362.7	362.7	346.4	323.5	297.4
152.5°	212.4	215.7	228.7	248.4	271.2	287.6	300.6	300.6	290.8	271.2	248.4
155°	163.4	163.4	173.2	186.3	205.9	222.2	232.0	232.0	225.5	209.1	196.1
157.5°	117.6	117.6	124.2	137.2	150.3	163.4	173.2	173.2	166.7	156.9	147.0
160°	78.4	78.4	81.7	91.5	101.3	111.1	117.6	120.9	117.6	111.1	101.3
162.5°	42.5	42.5	45.7	52.3	58.8	68.6	71.9	75.2	75.2	68.6	65.4
165°	13.1	13.1	13.1	19.6	22.9	29.4	32.7	35.9	35.9	35.9	32.7
167.5°	3.3	3.3	3.3	3.3	3.3	3.3	6.5	9.8	9.8	9.8	9.8
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	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: P691890

CATALOG NUMBER: CRTK2-C01H-D-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5	6888.5
2.5°	6437.5	6679.3	6947.3	7221.8	7502.8	7767.5	7989.7	8166.2	8260.9	8283.8	8270.7
5°	6009.4	6293.7	6607.4	6927.7	7293.7	7715.2	8100.8	8378.6	8522.3	8545.2	8551.8
7.5°	5398.4	5646.7	5953.9	6323.1	6783.9	7234.8	7829.6	8244.6	8476.6	8538.7	8538.7
10°	4754.6	4973.5	5166.3	5489.9	5891.8	6313.3	6819.8	7202.2	7437.4	7512.6	7447.3
12.5°	4391.9	4486.7	4617.4	4855.9	5107.5	5427.8	5865.7	6114.0	6267.6	6313.3	6274.1
15°	4159.9	4208.9	4264.4	4365.7	4542.2	4741.5	4999.7	5153.3	5248.0	5303.6	5284.0
17.5°	4048.8	4048.8	4039.0	4061.8	4107.6	4199.1	4375.5	4431.1	4473.6	4496.5	4483.4
20°	3878.8	3826.6	3784.1	3718.7	3692.6	3689.3	3731.8	3790.6	3787.3	3790.6	3764.5
22.5°	3708.9	3601.1	3496.5	3398.5	3287.4	3231.8	3192.6	3212.2	3195.9	3212.2	3195.9
25°	3627.2	3408.3	3199.1	2960.6	2761.3	2607.7	2506.4	2444.3	2339.7	2378.9	2343.0
27.5°	2251.5	2160.0	2071.8	1895.3	1728.7	1669.8	1620.8	1594.7	1575.1	1584.9	1578.3
30°	1950.9	1875.7	1807.1	1715.6	1588.1	1509.7	1450.9	1398.6	1382.3	1385.5	1382.3
32.5°	1810.3	1751.5	1666.6	1571.8	1457.4	1359.4	1290.8	1241.8	1215.6	1231.9	1218.9
35°	1620.8	1562.0	1490.1	1401.9	1303.8	1215.6	1150.3	1104.5	1075.1	1081.6	1078.4
37.5°	1496.6	1441.1	1379.0	1284.2	1199.3	1114.3	1049.0	1003.2	973.8	980.3	973.8
40°	1424.7	1362.7	1297.3	1212.3	1127.4	1039.2	977.1	924.8	895.4	895.4	895.4
42.5°	1277.7	1228.7	1173.1	1084.9	1009.7	934.6	872.5	833.3	800.6	803.9	797.3
45°	1091.4	1055.5	1013.0	954.2	892.1	833.3	781.0	751.6	725.4	728.7	725.4
47.5°	996.7	964.0	915.0	869.2	813.7	761.4	715.6	679.7	660.1	663.4	656.8
50°	960.7	921.5	866.0	803.9	751.6	699.3	653.6	627.4	607.8	611.1	607.8
52.5°	973.8	911.7	833.3	758.1	696.0	643.8	607.8	578.4	565.3	568.6	562.1
55°	1058.8	950.9	833.3	738.5	660.1	601.3	565.3	532.6	519.6	519.6	519.6
57.5°	1088.2	970.5	823.5	715.6	630.7	571.9	529.4	496.7	483.6	483.6	483.6
60°	1019.5	918.2	784.3	683.0	604.5	549.0	513.0	490.2	480.4	480.4	480.4
62.5°	872.5	807.1	705.8	624.1	565.3	516.3	480.4	451.0	441.1	437.9	437.9
65°	790.8	728.7	643.8	575.1	522.8	483.6	451.0	428.1	415.0	415.0	415.0
67.5°	738.5	679.7	601.3	535.9	486.9	444.4	415.0	392.1	385.6	382.3	382.3
70°	679.7	624.1	545.7	486.9	441.1	405.2	375.8	356.2	349.7	349.7	346.4
72.5°	620.9	568.6	493.4	437.9	395.4	362.7	336.6	320.2	313.7	310.4	310.4
75°	565.3	513.0	444.4	392.1	352.9	323.5	300.6	284.3	277.8	277.8	277.8
77.5°	513.0	464.0	398.7	349.7	317.0	287.6	268.0	254.9	248.4	248.4	248.4
80°	464.0	415.0	356.2	310.4	277.8	254.9	238.5	225.5	218.9	222.2	218.9
82.5°	411.7	372.5	317.0	274.5	248.4	225.5	209.1	199.3	192.8	196.1	192.8
85°	369.3	330.0	277.8	241.8	215.7	196.1	183.0	173.2	166.7	169.9	166.7
87.5°	326.8	290.8	245.1	212.4	189.5	173.2	156.9	150.3	147.0	147.0	143.8
90°	281.0	248.4	209.1	183.0	160.1	147.0	134.0	127.4	124.2	120.9	120.9
92.5°	248.4	222.2	186.3	163.4	143.8	134.0	120.9	114.4	111.1	111.1	111.1
95°	218.9	196.1	166.7	147.0	134.0	120.9	111.1	107.8	104.6	104.6	101.3
97.5°	189.5	169.9	150.3	134.0	120.9	111.1	101.3	98.0	94.8	94.8	94.8
100°	160.1	147.0	130.7	117.6	107.8	101.3	91.5	88.2	85.0	85.0	85.0
102.5°	134.0	124.2	111.1	101.3	94.8	88.2	81.7	78.4	75.2	75.2	75.2
105°	117.6	107.8	101.3	91.5	85.0	78.4	75.2	68.6	65.4	65.4	65.4
107.5°	107.8	101.3	94.8	88.2	81.7	75.2	68.6	62.1	58.8	58.8	58.8
110°	104.6	98.0	91.5	85.0	78.4	71.9	68.6	58.8	55.6	55.6	55.6



REPORT NUMBER: P691890

CATALOG NUMBER: CRTK2-C01H-D-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	104.6	101.3	94.8	88.2	81.7	75.2	68.6	55.6	52.3	52.3	52.3
115°	111.1	104.6	98.0	91.5	85.0	78.4	71.9	55.6	52.3	52.3	52.3
117.5°	120.9	114.4	104.6	98.0	91.5	81.7	71.9	58.8	52.3	52.3	52.3
120°	137.2	127.4	117.6	107.8	98.0	88.2	75.2	58.8	49.0	52.3	52.3
122.5°	156.9	147.0	130.7	117.6	107.8	94.8	78.4	62.1	49.0	52.3	52.3
125°	183.0	169.9	150.3	134.0	117.6	101.3	81.7	62.1	49.0	52.3	55.6
127.5°	212.4	192.8	169.9	147.0	127.4	107.8	88.2	65.4	49.0	55.6	55.6
130°	245.1	222.2	192.8	163.4	140.5	114.4	91.5	65.4	52.3	52.3	52.3
132.5°	281.0	248.4	209.1	176.5	147.0	117.6	91.5	65.4	52.3	52.3	52.3
135°	307.2	268.0	225.5	186.3	153.6	120.9	94.8	65.4	49.0	49.0	49.0
137.5°	330.0	284.3	238.5	192.8	156.9	120.9	91.5	62.1	49.0	45.7	45.7
140°	343.1	290.8	238.5	192.8	153.6	117.6	85.0	58.8	42.5	42.5	42.5
142.5°	343.1	287.6	235.3	186.3	143.8	111.1	81.7	52.3	39.2	39.2	39.2
145°	330.0	274.5	222.2	176.5	134.0	101.3	71.9	49.0	35.9	35.9	35.9
147.5°	307.2	251.6	202.6	160.1	117.6	88.2	62.1	39.2	29.4	29.4	29.4
150°	274.5	222.2	176.5	137.2	101.3	71.9	52.3	32.7	22.9	22.9	22.9
152.5°	228.7	186.3	143.8	114.4	81.7	58.8	39.2	26.1	19.6	19.6	19.6
155°	179.7	147.0	114.4	88.2	62.1	42.5	29.4	19.6	13.1	13.1	13.1
157.5°	137.2	111.1	85.0	65.4	45.7	32.7	22.9	13.1	9.8	9.8	9.8
160°	94.8	75.2	58.8	45.7	29.4	22.9	16.3	9.8	6.5	6.5	6.5
162.5°	62.1	49.0	35.9	26.1	19.6	13.1	9.8	6.5	3.3	3.3	3.3
165°	29.4	22.9	19.6	13.1	9.8	6.5	3.3	3.3	0.0	0.0	0.0
167.5°	9.8	6.5	6.5	3.3	3.3	3.3	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)