

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: P691183

Luminaire Tested: **CRTK2-C013-D-U-T5R-7050-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-D-U-T5R-7050-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2689 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

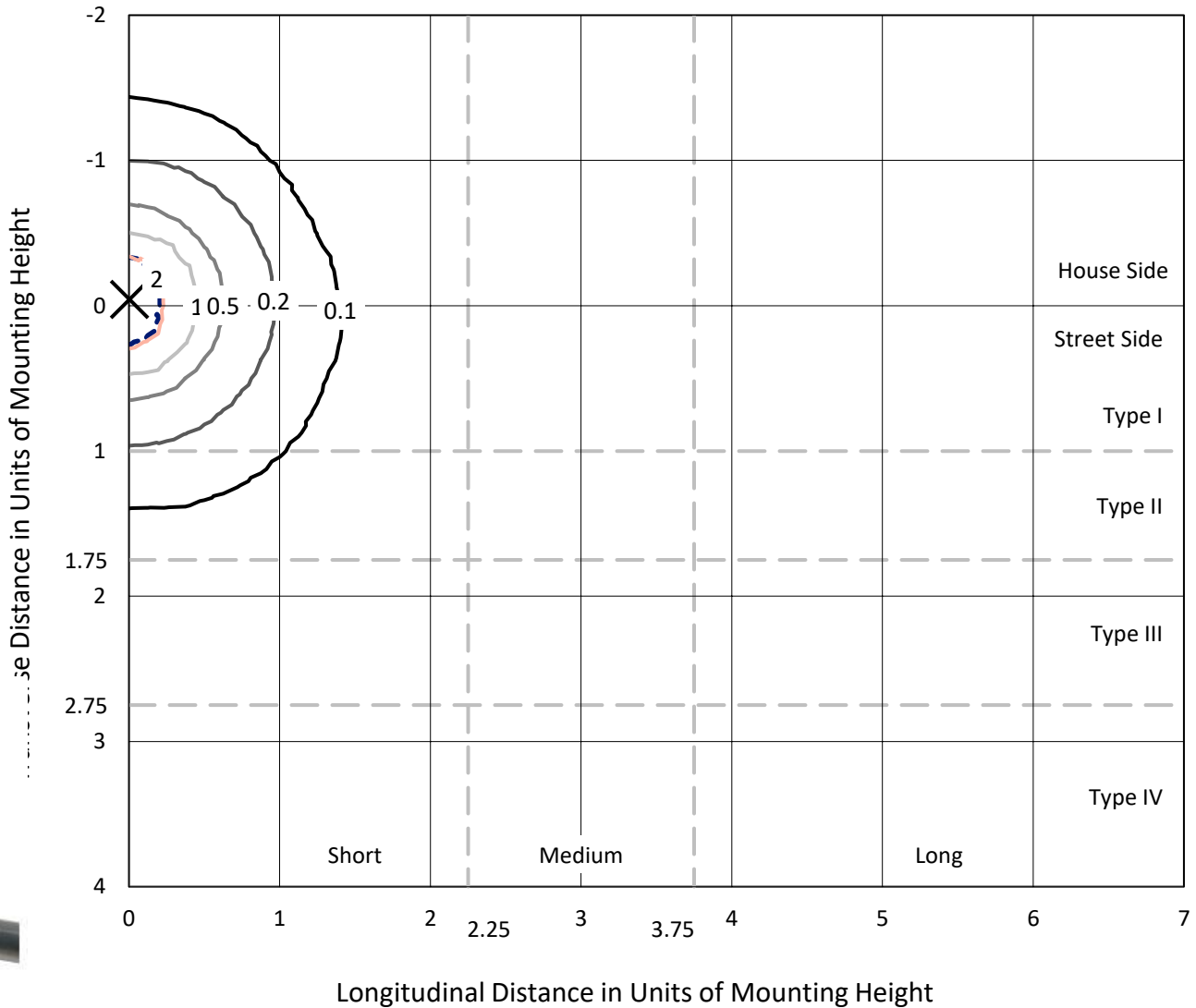
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P691183
 CATALOG NUMBER: CRTK2-C013-D-U-T5R-7050-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

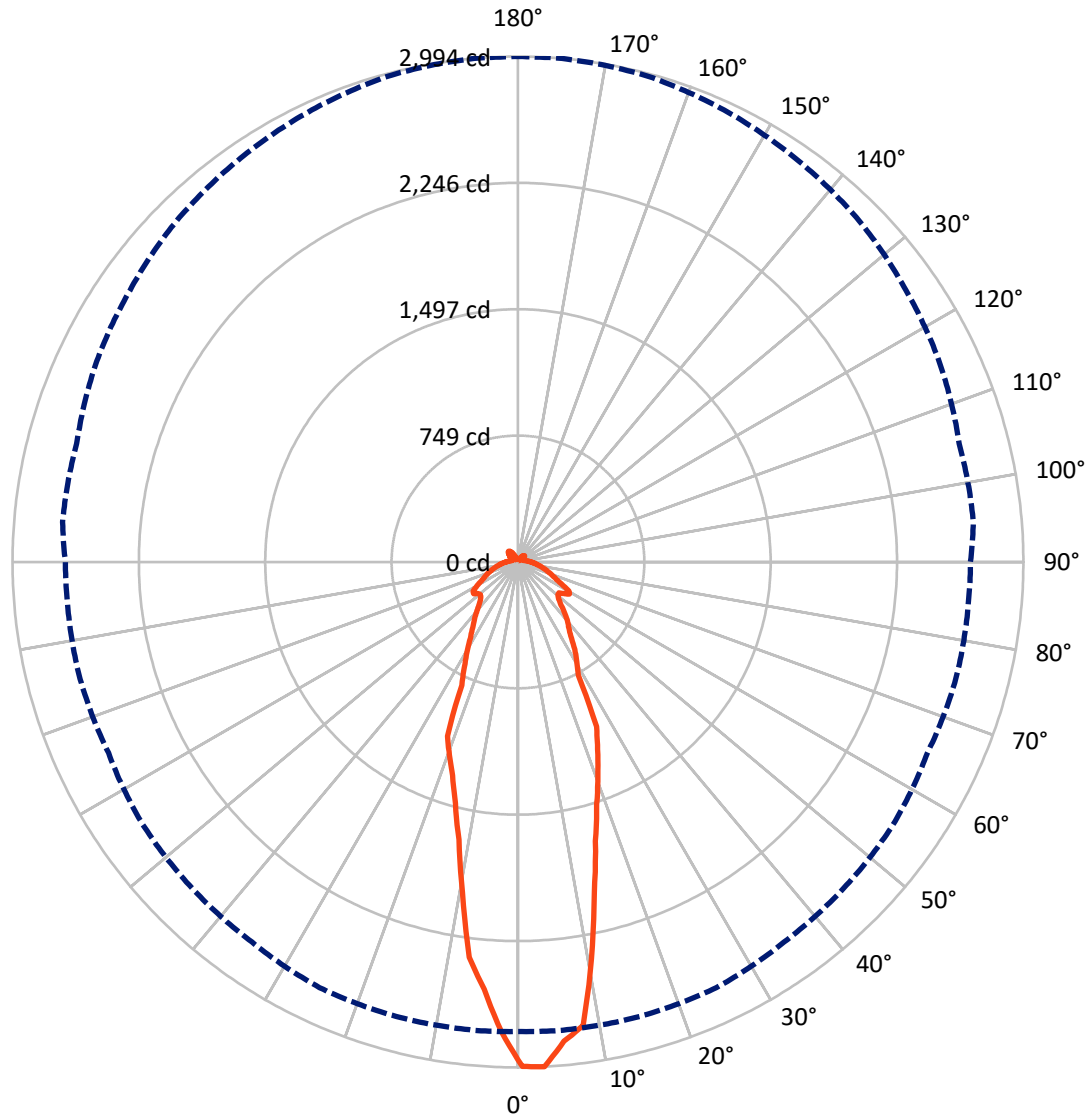
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

REPORT NUMBER: P691183
CATALOG NUMBER: CRTK2-C013-D-U-T5R-7050-RMARROA5

Luminous Intensity Polar Plot



— Vertical Plane Through 175-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P691183

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7050-RMARROA5

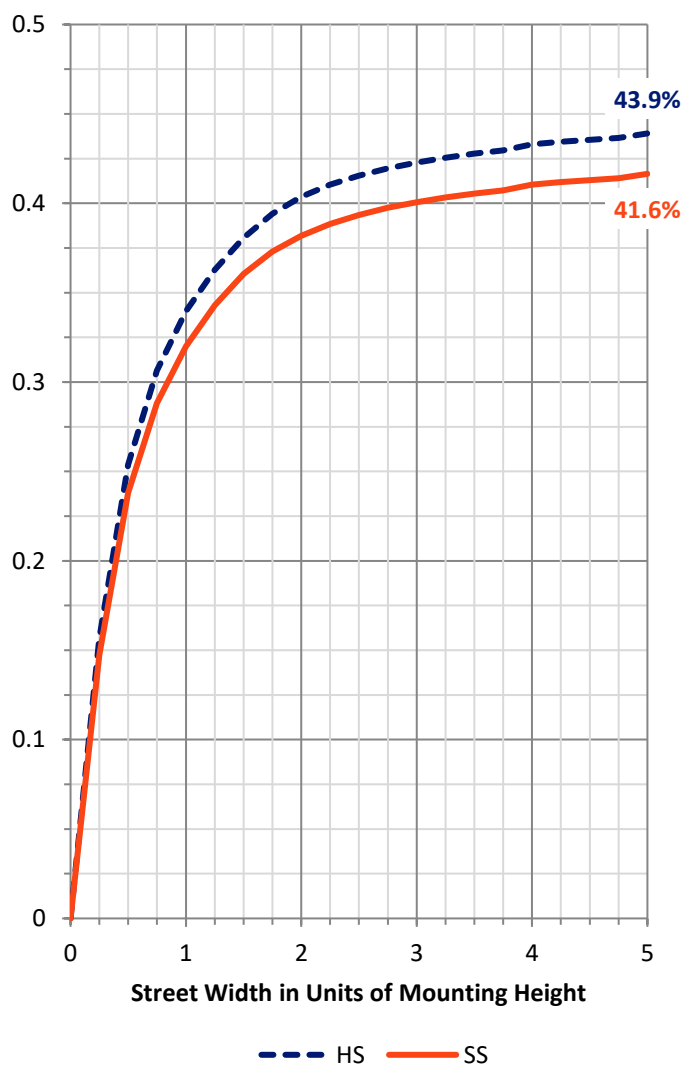
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.0	160.8	1377.8
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	1146.2	165.0	1311.2
	% Fixture	42.6	6.1	48.8
Total	Lumens	2363.2	325.8	2689.0
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	8.3
10°-20°	390.5	14.5
20°-30°	387.2	14.4
30°-40°	298.5	11.1
40°-50°	255.9	9.5
50°-60°	286.2	10.6
60°-70°	245.2	9.1
70°-80°	168.7	6.3
80°-90°	108.6	4.0
90°-100°	65.1	2.4
100°-110°	38.7	1.4
110°-120°	35.8	1.3
120°-130°	51.1	1.9
130°-140°	66.1	2.5
140°-150°	48.9	1.8
150°-160°	17.9	0.7
160°-170°	2.1	0.1
170°-180°	0.0	0.0
0°-90°	2363.2	87.9
0°-180°	2689.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691183

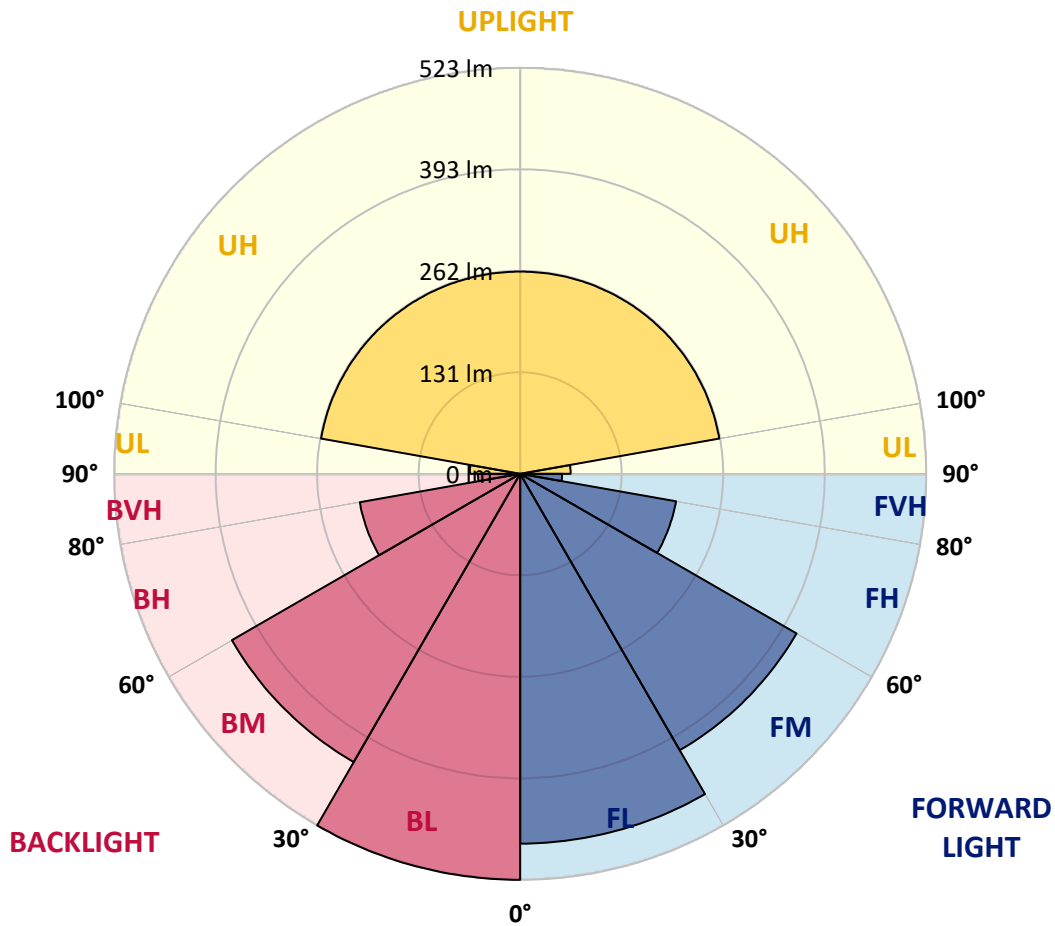
CATALOG NUMBER: CRTK2-C013-D-U-T5R-7050-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.7	17.7			
FM (30°-60°)	411.4	15.3			
FH (60°-80°)	204.0	7.6			G0/660
FVH (80°-90°)	54.1	2.0			G1/100
BL (0°-30°)	523.4	19.5	B2/1000		
BM (30°-60°)	429.1	16.0	B1/1000		
BH (60°-80°)	210.0	7.8	B1/500		G0/660
BVH (80°-90°)	54.5	2.0			G1/100
UL (90°-100°)	65.1	2.4		U3/500	
UH (100°-180°)	260.7	9.7		U3/500	

BUG Rating: B2-U3-G1

Type V Short





REPORT NUMBER: P691183

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7050-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3
2.5°	2781.9	2786.0	2787.0	2781.9	2748.5	2731.3	2713.1	2676.7	2684.8	2679.7	2680.8
5°	2522.9	2539.1	2513.8	2506.8	2456.2	2418.8	2382.3	2342.9	2333.8	2317.6	2323.7
7.5°	2351.0	2360.1	2318.6	2276.1	2195.2	2137.5	2076.8	2016.1	1970.6	1953.4	1960.5
10°	1957.5	1987.8	1946.3	1902.8	1825.9	1757.2	1693.4	1633.7	1592.3	1579.1	1581.1
12.5°	1664.1	1681.3	1645.9	1616.5	1530.6	1464.8	1406.1	1350.5	1317.1	1302.9	1302.9
15°	1469.9	1476.9	1449.6	1393.0	1328.2	1268.6	1219.0	1178.5	1151.2	1146.2	1148.2
17.5°	1323.2	1323.2	1295.9	1251.4	1201.8	1149.2	1114.8	1084.4	1072.3	1076.3	1077.4
20°	1212.9	1213.9	1189.6	1146.2	1103.7	1056.1	1027.8	1006.5	999.5	1006.5	1007.6
22.5°	1108.7	1113.8	1087.5	1055.1	1008.6	971.1	947.9	924.6	920.6	923.6	923.6
25°	802.2	802.2	793.1	767.8	777.9	782.0	809.3	868.0	855.8	866.9	865.9
27.5°	691.9	696.0	677.8	655.5	632.3	604.9	599.9	594.8	589.8	613.0	621.1
30°	611.0	613.0	597.9	582.7	563.5	548.3	544.2	544.2	539.2	557.4	556.4
32.5°	534.1	531.1	527.0	512.9	500.7	487.6	490.6	488.6	488.6	504.8	505.8
35°	473.4	472.4	469.4	459.3	447.1	437.0	440.0	442.1	441.1	451.2	451.2
37.5°	428.9	429.9	427.9	423.9	411.7	403.6	405.7	403.6	406.7	413.7	413.7
40°	385.4	385.4	386.4	385.4	377.3	374.3	380.4	377.3	384.4	389.5	387.4
42.5°	343.9	345.0	347.0	345.0	339.9	336.9	339.9	340.9	351.0	358.1	357.1
45°	317.6	317.6	318.7	317.6	313.6	310.6	310.6	307.5	314.6	318.7	317.6
47.5°	300.4	300.4	302.5	301.5	299.4	296.4	294.4	290.3	293.4	296.4	293.4
50°	294.4	294.4	298.4	298.4	297.4	294.4	291.3	286.3	287.3	289.3	285.3
52.5°	303.5	303.5	310.6	313.6	313.6	308.5	304.5	297.4	297.4	299.4	293.4
55°	322.7	322.7	333.8	339.9	340.9	340.9	335.9	328.8	329.8	333.8	327.8
57.5°	315.6	316.6	325.7	333.8	338.9	341.9	341.9	337.9	340.9	351.0	348.0
60°	282.2	284.3	290.3	297.4	306.5	309.6	309.6	308.5	313.6	325.7	325.7
62.5°	250.9	251.9	254.9	261.0	266.1	268.1	268.1	264.0	270.1	276.2	274.1
65°	226.6	225.6	231.7	236.7	239.8	242.8	239.8	235.7	238.7	242.8	241.8
67.5°	206.4	206.4	211.4	215.5	217.5	220.5	218.5	216.5	220.5	222.6	220.5
70°	187.1	188.2	192.2	195.2	197.3	200.3	197.3	196.3	200.3	202.3	201.3
72.5°	167.9	168.9	172.0	176.0	178.0	179.1	178.0	177.0	180.1	182.1	182.1
75°	150.7	151.7	153.8	157.8	157.8	159.8	158.8	157.8	160.8	162.9	162.9
77.5°	134.5	136.6	137.6	140.6	141.6	142.6	141.6	141.6	143.6	145.7	146.7
80°	120.4	121.4	122.4	125.4	125.4	126.5	125.4	125.4	127.5	130.5	130.5
82.5°	107.2	108.2	109.3	111.3	110.3	111.3	111.3	111.3	113.3	116.3	116.3
85°	94.1	96.1	96.1	98.1	98.1	98.1	98.1	99.1	100.1	103.2	103.2
87.5°	83.0	84.0	85.0	86.0	86.0	87.0	87.0	88.0	89.0	91.0	92.1
90°	71.8	72.8	73.8	73.8	73.8	74.9	74.9	75.9	76.9	78.9	79.9
92.5°	63.7	64.7	64.7	65.8	65.8	65.8	66.8	67.8	68.8	70.8	70.8
95°	56.6	57.7	57.7	57.7	57.7	58.7	58.7	59.7	60.7	62.7	62.7
97.5°	50.6	50.6	50.6	50.6	50.6	51.6	51.6	52.6	53.6	54.6	54.6
100°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	45.5	45.5	47.5	47.5
102.5°	39.5	39.5	38.4	38.4	38.4	37.4	37.4	38.4	38.4	39.5	39.5
105°	35.4	35.4	35.4	35.4	34.4	34.4	34.4	34.4	34.4	35.4	35.4
107.5°	34.4	34.4	33.4	33.4	33.4	32.4	32.4	32.4	32.4	33.4	33.4
110°	33.4	33.4	33.4	33.4	32.4	32.4	31.4	31.4	31.4	32.4	32.4



REPORT NUMBER: P691183

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	34.4	34.4	34.4	33.4	33.4	32.4	32.4	32.4	32.4	32.4	33.4
115°	36.4	35.4	35.4	35.4	35.4	34.4	33.4	33.4	34.4	34.4	34.4
117.5°	39.5	38.4	38.4	39.5	38.4	37.4	36.4	36.4	37.4	37.4	38.4
120°	43.5	42.5	43.5	43.5	43.5	42.5	41.5	40.5	41.5	42.5	42.5
122.5°	48.6	47.5	48.6	49.6	49.6	48.6	46.5	46.5	47.5	48.6	49.6
125°	54.6	54.6	55.6	56.6	57.7	55.6	54.6	53.6	55.6	56.6	56.6
127.5°	61.7	60.7	62.7	65.8	66.8	64.7	62.7	61.7	63.7	65.8	65.8
130°	68.8	67.8	70.8	73.8	75.9	73.8	71.8	70.8	72.8	74.9	74.9
132.5°	74.9	73.8	77.9	81.9	84.0	83.0	80.9	78.9	81.9	84.0	83.0
135°	79.9	79.9	85.0	89.0	91.0	90.0	88.0	86.0	90.0	92.1	90.0
137.5°	83.0	83.0	89.0	93.1	95.1	95.1	94.1	92.1	96.1	97.1	94.1
140°	83.0	84.0	89.0	93.1	94.1	95.1	95.1	94.1	98.1	98.1	95.1
142.5°	79.9	80.9	86.0	90.0	91.0	92.1	93.1	92.1	95.1	95.1	93.1
145°	74.9	75.9	80.9	85.0	85.0	86.0	88.0	87.0	89.0	90.0	88.0
147.5°	67.8	68.8	72.8	74.9	75.9	77.9	79.9	79.9	80.9	81.9	80.9
150°	58.7	58.7	61.7	63.7	64.7	66.8	68.8	69.8	69.8	70.8	69.8
152.5°	46.5	46.5	48.6	50.6	51.6	54.6	55.6	56.6	57.7	58.7	57.7
155°	35.4	35.4	36.4	37.4	38.4	41.5	42.5	43.5	44.5	45.5	44.5
157.5°	25.3	25.3	26.3	27.3	28.3	30.3	31.4	32.4	32.4	33.4	33.4
160°	16.2	17.2	17.2	18.2	18.2	20.2	21.2	21.2	22.3	23.3	23.3
162.5°	8.1	9.1	9.1	10.1	11.1	12.1	13.2	13.2	14.2	14.2	14.2
165°	2.0	3.0	3.0	4.0	4.0	5.1	6.1	6.1	7.1	7.1	7.1
167.5°	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
170°	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
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: P691183

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3	2988.3
2.5°	2708.1	2706.0	2761.7	2806.2	2858.8	2900.3	2940.7	2979.2	2994.4	2993.3	2994.4
5°	2351.0	2386.4	2459.2	2531.0	2616.0	2695.9	2770.8	2820.4	2851.7	2851.7	2854.8
7.5°	1992.9	2049.5	2139.5	2253.9	2381.3	2485.5	2612.0	2701.0	2771.8	2769.8	2782.9
10°	1609.5	1654.0	1744.0	1866.4	2007.0	2127.4	2237.7	2320.6	2389.4	2385.4	2402.6
12.5°	1322.2	1353.5	1431.4	1542.7	1671.2	1787.5	1895.8	1960.5	2009.1	2008.0	2017.1
15°	1153.2	1185.6	1236.2	1313.1	1419.3	1522.5	1630.7	1689.4	1716.7	1713.7	1728.8
17.5°	1084.4	1097.6	1129.0	1180.5	1257.4	1341.4	1427.4	1478.0	1509.3	1505.3	1516.4
20°	1010.6	1022.7	1044.0	1082.4	1137.0	1200.8	1273.6	1329.3	1352.5	1351.5	1358.6
22.5°	925.6	931.7	955.0	985.3	1024.8	1076.3	1132.0	1182.6	1205.8	1204.8	1211.9
25°	866.9	877.1	891.2	909.4	936.7	977.2	1023.7	1059.2	1080.4	1078.4	1087.5
27.5°	633.3	643.4	650.5	661.6	662.6	696.0	712.2	741.5	760.7	759.7	765.8
30°	556.4	558.4	564.5	579.7	588.8	615.1	647.4	669.7	685.9	691.9	696.0
32.5°	507.8	513.9	521.0	528.1	539.2	555.4	580.7	600.9	618.1	621.1	628.2
35°	452.2	456.2	461.3	468.4	475.5	488.6	507.8	524.0	537.2	542.2	546.3
37.5°	412.7	413.7	418.8	426.9	433.0	444.1	461.3	473.4	486.6	487.6	491.6
40°	386.4	387.4	392.5	399.6	406.7	413.7	428.9	440.0	449.2	450.2	453.2
42.5°	356.1	359.1	361.1	364.2	369.2	375.3	388.5	394.5	400.6	401.6	405.7
45°	314.6	315.6	317.6	320.7	326.7	332.8	341.9	349.0	353.1	353.1	352.0
47.5°	291.3	292.4	292.4	296.4	301.5	307.5	315.6	321.7	323.7	323.7	323.7
50°	283.2	283.2	281.2	284.3	289.3	293.4	301.5	306.5	307.5	308.5	309.6
52.5°	289.3	287.3	281.2	284.3	289.3	293.4	301.5	303.5	303.5	305.5	306.5
55°	322.7	319.7	307.5	309.6	315.6	320.7	326.7	327.8	329.8	332.8	331.8
57.5°	343.9	346.0	331.8	334.8	346.0	350.0	357.1	356.1	360.1	364.2	365.2
60°	323.7	329.8	318.7	322.7	335.9	337.9	345.0	340.9	347.0	347.0	347.0
62.5°	275.2	277.2	271.1	277.2	289.3	289.3	294.4	291.3	293.4	291.3	292.4
65°	240.8	239.8	232.7	240.8	244.8	246.8	250.9	251.9	251.9	249.9	249.9
67.5°	219.5	217.5	211.4	213.4	217.5	218.5	224.6	225.6	224.6	224.6	225.6
70°	200.3	197.3	191.2	192.2	195.2	196.3	201.3	203.3	202.3	201.3	202.3
72.5°	181.1	178.0	172.0	172.0	175.0	177.0	181.1	183.1	181.1	181.1	182.1
75°	162.9	159.8	153.8	153.8	155.8	156.8	161.9	162.9	161.9	160.8	161.9
77.5°	146.7	144.7	138.6	138.6	139.6	140.6	143.6	144.7	143.6	142.6	143.6
80°	131.5	128.5	124.4	123.4	124.4	124.4	127.5	128.5	126.5	126.5	127.5
82.5°	117.3	114.3	110.3	110.3	109.3	110.3	112.3	113.3	112.3	111.3	112.3
85°	104.2	102.2	98.1	97.1	97.1	97.1	99.1	99.1	98.1	98.1	98.1
87.5°	92.1	90.0	86.0	86.0	85.0	86.0	87.0	87.0	86.0	86.0	86.0
90°	79.9	77.9	74.9	74.9	73.8	74.9	75.9	75.9	74.9	74.9	74.9
92.5°	70.8	69.8	66.8	66.8	65.8	66.8	66.8	66.8	65.8	65.8	65.8
95°	62.7	61.7	59.7	58.7	58.7	58.7	58.7	58.7	57.7	57.7	57.7
97.5°	54.6	53.6	51.6	51.6	50.6	51.6	51.6	51.6	50.6	50.6	50.6
100°	47.5	46.5	45.5	45.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
102.5°	39.5	39.5	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
105°	35.4	35.4	35.4	35.4	36.4	36.4	36.4	35.4	35.4	35.4	35.4
107.5°	33.4	33.4	33.4	34.4	34.4	34.4	35.4	33.4	32.4	32.4	32.4
110°	32.4	32.4	33.4	33.4	34.4	34.4	35.4	31.4	30.3	30.3	30.3



REPORT NUMBER: P691183

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	33.4	33.4	33.4	34.4	35.4	35.4	36.4	31.4	30.3	30.3	30.3
115°	35.4	35.4	35.4	36.4	37.4	38.4	38.4	33.4	31.4	31.4	32.4
117.5°	38.4	38.4	38.4	39.5	41.5	41.5	41.5	35.4	34.4	34.4	34.4
120°	42.5	43.5	43.5	44.5	46.5	47.5	45.5	40.5	34.4	37.4	37.4
122.5°	48.6	49.6	50.6	51.6	54.6	54.6	51.6	46.5	37.4	41.5	42.5
125°	56.6	57.7	58.7	60.7	63.7	63.7	59.7	52.6	42.5	46.5	47.5
127.5°	64.7	66.8	67.8	70.8	74.9	74.9	69.8	60.7	47.5	50.6	51.6
130°	73.8	75.9	77.9	81.9	87.0	85.0	80.9	68.8	51.6	53.6	53.6
132.5°	81.9	85.0	86.0	92.1	97.1	95.1	90.0	73.8	53.6	53.6	52.6
135°	88.0	90.0	91.0	97.1	102.2	99.1	93.1	75.9	52.6	50.6	50.6
137.5°	92.1	94.1	95.1	99.1	103.2	98.1	90.0	71.8	50.6	49.6	48.6
140°	94.1	94.1	94.1	97.1	99.1	93.1	83.0	64.7	45.5	47.5	47.5
142.5°	92.1	91.0	90.0	92.1	93.1	86.0	76.9	57.7	41.5	43.5	43.5
145°	87.0	85.0	84.0	85.0	85.0	76.9	66.8	49.6	36.4	37.4	37.4
147.5°	79.9	76.9	74.9	74.9	73.8	65.8	56.6	41.5	31.4	30.3	30.3
150°	68.8	65.8	63.7	63.7	60.7	53.6	45.5	32.4	25.3	25.3	25.3
152.5°	56.6	53.6	51.6	51.6	48.6	41.5	34.4	24.3	19.2	19.2	19.2
155°	44.5	41.5	39.5	38.4	36.4	31.4	25.3	18.2	14.2	14.2	14.2
157.5°	33.4	31.4	29.3	28.3	26.3	23.3	18.2	13.2	9.1	10.1	10.1
160°	23.3	21.2	20.2	19.2	18.2	15.2	12.1	8.1	5.1	5.1	5.1
162.5°	14.2	13.2	13.2	12.1	11.1	10.1	7.1	4.0	2.0	2.0	2.0
165°	7.1	7.1	6.1	6.1	5.1	4.0	3.0	1.0	0.0	0.0	0.0
167.5°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
170°	1.0	1.0	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)