

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: P691062

Luminaire Tested: **CRTK2-C013-5TLD-U-T3-7050-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691062
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-C013-5TLD-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: 3010 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - G1

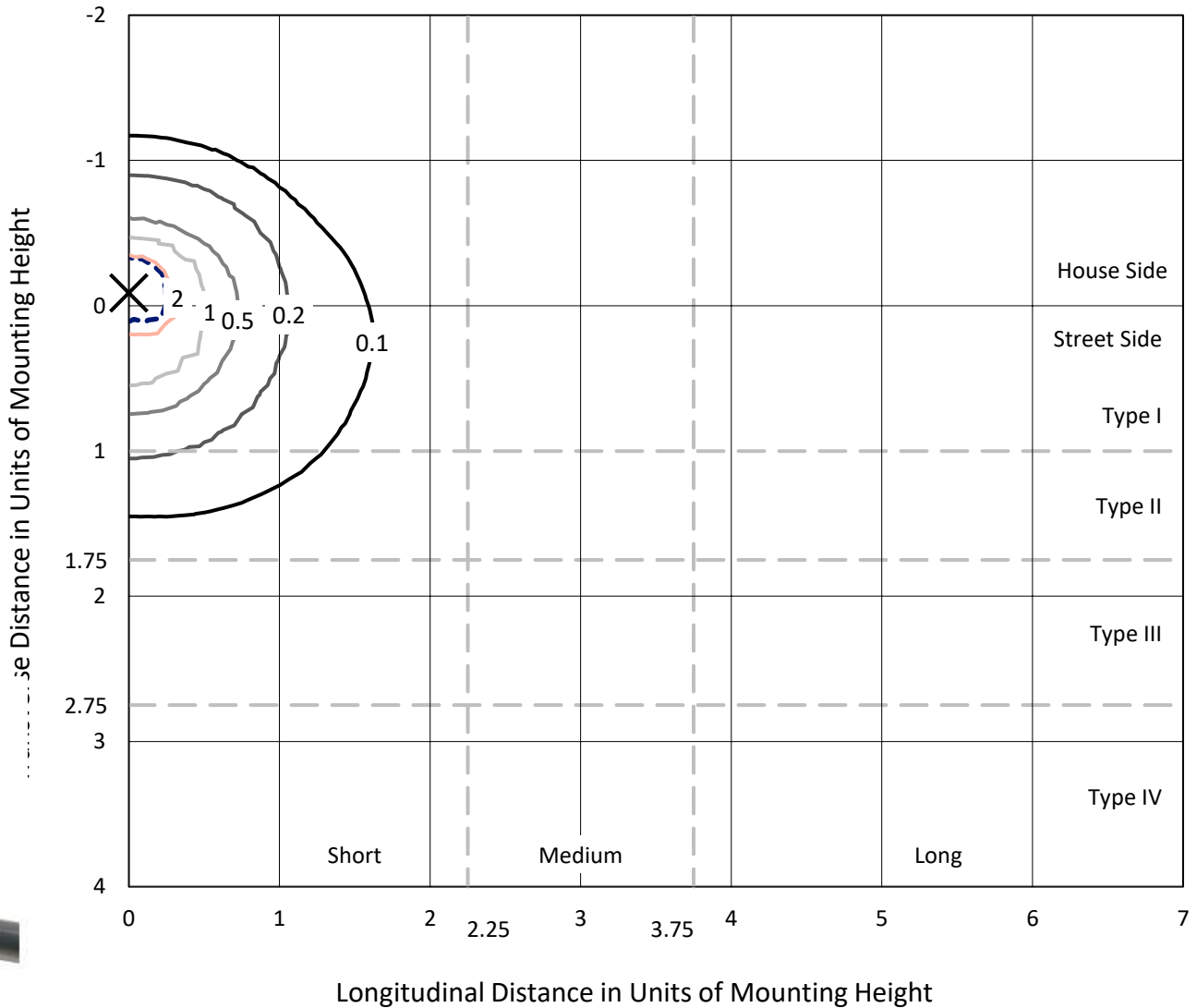
Input Watts (W): 23.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P691062
 CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7050-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

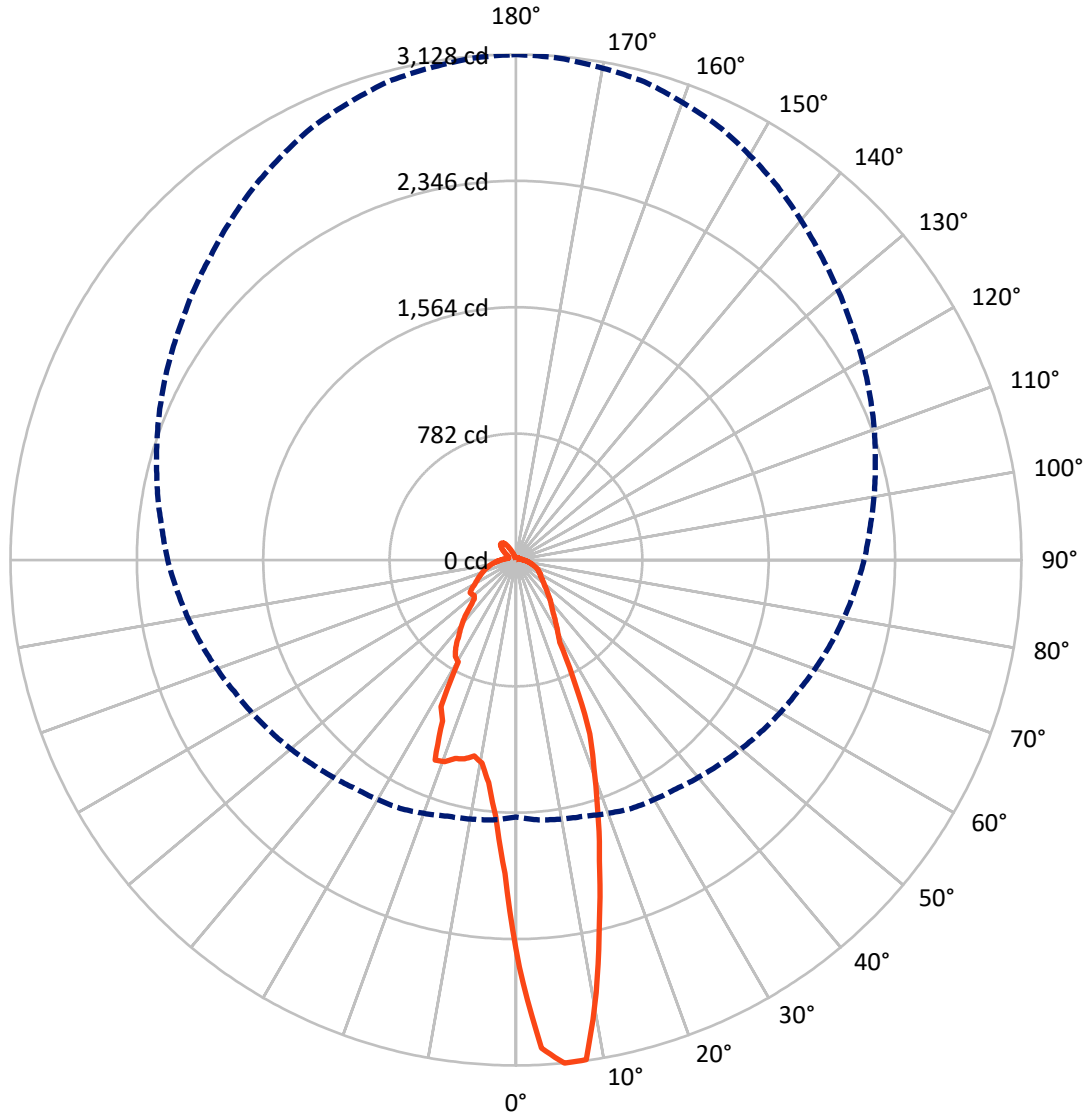
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type I - Short - N/A

REPORT NUMBER: P691062
CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7050-RMARROA5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P691062
 CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7050-RMARROA5

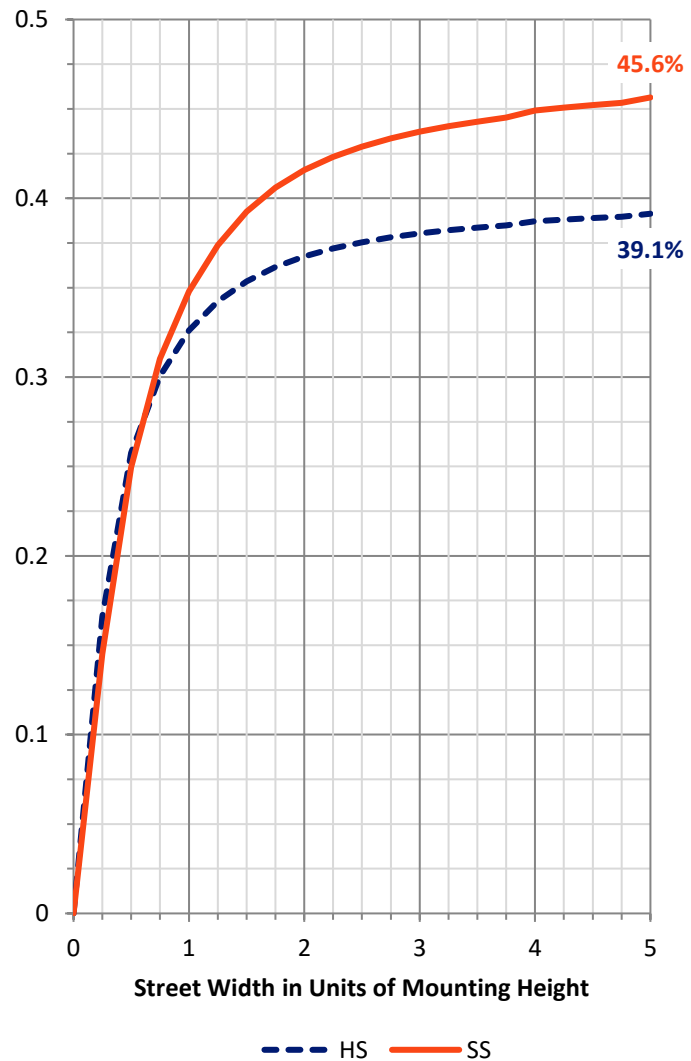
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1209.8	129.7	1339.5
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	1411.8	258.7	1670.5
	% Fixture	46.9	8.6	55.5
Total	Lumens	2621.5	388.4	3010.0
	% Fixture	87.1	12.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	6.7
10°-20°	433.9	14.4
20°-30°	477.8	15.9
30°-40°	351.1	11.7
40°-50°	294.2	9.8
50°-60°	295.1	9.8
60°-70°	252.8	8.4
70°-80°	188.3	6.3
80°-90°	126.0	4.2
90°-100°	74.8	2.5
100°-110°	43.5	1.4
110°-120°	40.4	1.3
120°-130°	58.6	1.9
130°-140°	78.9	2.6
140°-150°	63.9	2.1
150°-160°	25.2	0.8
160°-170°	3.1	0.1
170°-180°	0.0	0.0
0°-90°	2621.5	87.1
0°-180°	3010.0	100.0



REPORT NUMBER: P691062

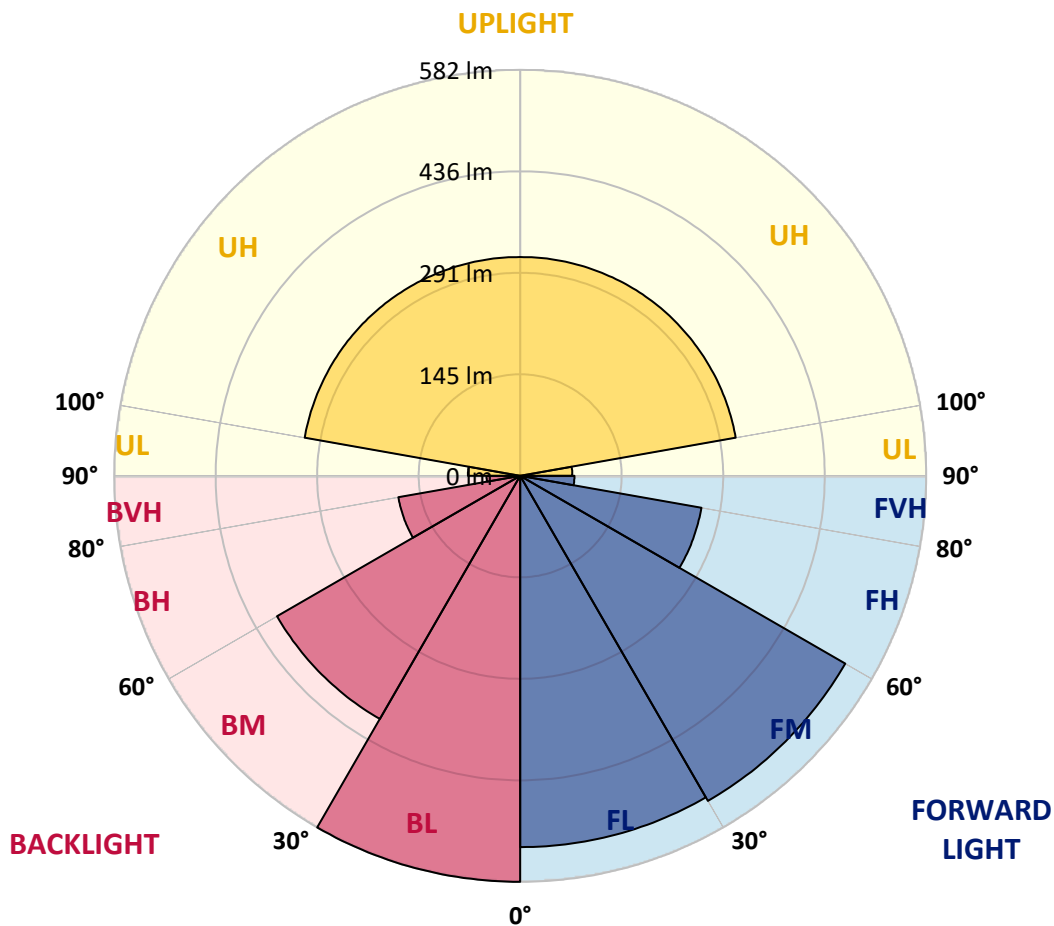
CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7050-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.2	17.7			
FM (30°-60°)	538.0	17.9			
FH (60°-80°)	263.8	8.8			G0/660
FVH (80°-90°)	77.8	2.6			G1/100
BL (0°-30°)	581.9	19.3	B2/1000		
BM (30°-60°)	402.4	13.4	B1/1000		
BH (60°-80°)	177.3	5.9	B1/500		G1/500
BVH (80°-90°)	48.2	1.6			G1/100
UL (90°-100°)	74.8	2.5		U3/500	
UH (100°-180°)	313.6	10.4		U3/500	

BUG Rating: B2-U3-G1

Type I Short





REPORT NUMBER: P691062

CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7
2.5°	1941.1	1969.8	1984.2	2027.2	2041.5	2069.0	2110.9	2152.7	2223.2	2275.8	2316.5
5°	1590.9	1614.8	1641.1	1696.1	1728.4	1785.8	1852.7	1924.4	2015.2	2107.3	2155.1
7.5°	1386.5	1392.5	1430.8	1497.7	1556.3	1617.2	1690.1	1752.3	1814.4	1889.7	1937.6
10°	1274.2	1282.5	1307.6	1359.0	1409.2	1459.4	1516.8	1564.6	1628.0	1691.3	1720.0
12.5°	1240.7	1244.3	1265.8	1295.7	1328.0	1360.2	1404.5	1447.5	1503.7	1558.7	1577.8
15°	1270.6	1270.6	1274.2	1286.1	1302.9	1328.0	1361.4	1398.5	1449.9	1490.5	1510.8
17.5°	1284.9	1286.1	1295.7	1298.1	1313.6	1324.4	1354.3	1382.9	1432.0	1465.4	1476.2
20°	1323.2	1323.2	1324.4	1330.4	1332.7	1338.7	1351.9	1367.4	1408.0	1426.0	1423.6
22.5°	1335.1	1330.4	1349.5	1384.1	1382.9	1384.1	1372.2	1375.8	1398.5	1391.3	1374.6
25°	1096.1	1090.1	1111.6	1133.1	1164.2	1203.7	1301.7	1378.2	1406.8	1384.1	1347.1
27.5°	1019.6	993.3	987.3	935.9	889.3	812.8	805.6	757.8	753.0	782.9	810.4
30°	724.3	725.5	724.3	719.6	716.0	719.6	723.1	714.8	717.2	736.3	727.9
32.5°	706.4	706.4	701.6	699.2	688.5	684.9	678.9	663.4	665.8	680.1	676.5
35°	658.6	656.2	657.4	651.4	632.3	616.8	614.4	601.2	601.2	609.6	606.0
37.5°	586.9	583.3	597.6	596.4	580.9	574.9	569.0	560.6	560.6	567.8	560.6
40°	530.7	528.3	543.9	548.6	539.1	541.5	542.7	535.5	542.7	543.9	534.3
42.5°	470.9	469.7	482.9	481.7	473.3	472.1	470.9	466.2	478.1	487.7	480.5
45°	400.4	396.8	406.4	410.0	407.6	404.0	402.8	402.8	410.0	414.8	407.6
47.5°	353.8	355.0	362.2	370.5	372.9	375.3	374.1	371.7	376.5	377.7	371.7
50°	338.3	339.5	350.2	359.8	367.0	371.7	371.7	368.1	371.7	368.1	359.8
52.5°	345.4	345.4	359.8	374.1	386.1	394.4	395.6	390.9	390.9	381.3	368.1
55°	347.8	350.2	369.3	393.2	414.8	437.5	448.2	444.6	448.2	427.9	406.4
57.5°	325.1	331.1	350.2	378.9	407.6	443.5	466.2	468.6	467.4	449.4	423.1
60°	295.2	300.0	313.2	338.3	365.8	394.4	417.2	421.9	426.7	418.3	394.4
62.5°	274.9	277.3	288.1	306.0	325.1	340.7	349.0	347.8	352.6	350.2	332.3
65°	257.0	258.2	270.1	284.5	296.4	312.0	314.4	314.4	317.9	313.2	298.8
67.5°	237.9	237.9	247.4	260.6	274.9	288.1	291.6	292.8	297.6	292.8	282.1
70°	221.1	221.1	229.5	240.3	251.0	264.2	267.7	268.9	274.9	268.9	258.2
72.5°	205.6	205.6	212.8	222.3	231.9	242.6	246.2	247.4	252.2	246.2	237.9
75°	188.9	190.1	196.0	204.4	212.8	222.3	227.1	227.1	230.7	223.5	216.3
77.5°	172.1	173.3	179.3	186.5	193.6	203.2	205.6	206.8	210.4	203.2	196.0
80°	155.4	157.8	162.6	168.5	175.7	182.9	187.7	187.7	190.1	182.9	178.1
82.5°	139.8	142.2	145.8	150.6	157.8	164.9	169.7	169.7	170.9	164.9	159.0
85°	124.3	126.7	130.3	133.9	139.8	147.0	151.8	151.8	153.0	147.0	142.2
87.5°	110.0	112.4	114.7	118.3	123.1	130.3	135.1	135.1	135.1	130.3	125.5
90°	95.6	96.8	99.2	102.8	107.6	113.6	117.1	118.3	118.3	112.4	110.0
92.5°	84.9	84.9	87.3	89.6	94.4	99.2	102.8	104.0	104.0	100.4	96.8
95°	72.9	74.1	75.3	77.7	81.3	84.9	89.6	89.6	89.6	87.3	84.9
97.5°	64.5	63.4	64.5	65.7	69.3	71.7	75.3	76.5	76.5	74.1	72.9
100°	55.0	56.2	56.2	57.4	58.6	59.8	62.2	63.4	63.4	62.2	62.2
102.5°	51.4	50.2	50.2	50.2	50.2	50.2	51.4	51.4	52.6	51.4	50.2
105°	47.8	47.8	47.8	47.8	46.6	46.6	46.6	46.6	45.4	44.2	44.2
107.5°	46.6	46.6	46.6	46.6	45.4	45.4	44.2	44.2	43.0	41.8	40.6
110°	46.6	46.6	46.6	46.6	45.4	44.2	44.2	43.0	41.8	40.6	39.4



REPORT NUMBER: P691062
 CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	49.0	49.0	49.0	49.0	46.6	45.4	44.2	44.2	41.8	40.6	39.4
115°	53.8	53.8	52.6	52.6	51.4	49.0	47.8	46.6	45.4	43.0	41.8
117.5°	58.6	58.6	58.6	58.6	57.4	55.0	52.6	51.4	50.2	46.6	45.4
120°	66.9	66.9	66.9	68.1	65.7	63.4	61.0	58.6	57.4	53.8	51.4
122.5°	77.7	76.5	78.9	80.1	78.9	75.3	71.7	69.3	66.9	62.2	59.8
125°	88.5	88.5	90.8	94.4	94.4	90.8	86.1	82.5	80.1	72.9	69.3
127.5°	101.6	101.6	105.2	111.2	112.4	108.8	104.0	99.2	95.6	86.1	82.5
130°	113.6	113.6	120.7	127.9	131.5	127.9	123.1	117.1	112.4	101.6	95.6
132.5°	123.1	124.3	132.7	142.2	147.0	145.8	139.8	135.1	130.3	117.1	110.0
135°	132.7	133.9	143.4	155.4	161.4	161.4	156.6	150.6	144.6	130.3	121.9
137.5°	137.5	138.7	150.6	162.6	169.7	172.1	169.7	163.8	157.8	142.2	131.5
140°	137.5	139.8	151.8	163.8	170.9	174.5	174.5	168.5	162.6	148.2	137.5
142.5°	133.9	136.3	147.0	159.0	166.1	170.9	172.1	167.3	161.4	147.0	136.3
145°	126.7	127.9	138.7	149.4	156.6	162.6	164.9	161.4	154.2	142.2	131.5
147.5°	114.7	114.7	124.3	132.7	142.2	148.2	151.8	149.4	143.4	132.7	123.1
150°	98.0	98.0	105.2	113.6	121.9	129.1	132.7	132.7	126.7	118.3	108.8
152.5°	77.7	78.9	83.7	90.8	99.2	105.2	110.0	110.0	106.4	99.2	90.8
155°	59.8	59.8	63.4	68.1	75.3	81.3	84.9	84.9	82.5	76.5	71.7
157.5°	43.0	43.0	45.4	50.2	55.0	59.8	63.4	63.4	61.0	57.4	53.8
160°	28.7	28.7	29.9	33.5	37.1	40.6	43.0	44.2	43.0	40.6	37.1
162.5°	15.5	15.5	16.7	19.1	21.5	25.1	26.3	27.5	27.5	25.1	23.9
165°	4.8	4.8	4.8	7.2	8.4	10.8	12.0	13.1	13.1	13.1	12.0
167.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6	3.6	3.6	3.6
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	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: P691062

CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7
2.5°	2354.7	2443.2	2541.2	2641.6	2744.4	2841.2	2922.5	2987.0	3021.7	3030.0	3025.3
5°	2198.1	2302.1	2416.9	2534.0	2667.9	2822.1	2963.1	3064.7	3117.3	3125.7	3128.1
7.5°	1974.6	2065.5	2177.8	2312.9	2481.4	2646.4	2863.9	3015.7	3100.6	3123.3	3123.3
10°	1739.1	1819.2	1889.7	2008.1	2155.1	2309.3	2494.6	2634.4	2720.5	2748.0	2724.1
12.5°	1606.5	1641.1	1688.9	1776.2	1868.2	1985.4	2145.5	2236.4	2292.6	2309.3	2294.9
15°	1521.6	1539.5	1559.8	1596.9	1661.4	1734.4	1828.8	1885.0	1919.6	1939.9	1932.8
17.5°	1481.0	1481.0	1477.4	1485.7	1502.5	1535.9	1600.5	1620.8	1636.3	1644.7	1639.9
20°	1418.8	1399.7	1384.1	1360.2	1350.7	1349.5	1365.0	1386.5	1385.3	1386.5	1377.0
22.5°	1356.6	1317.2	1279.0	1243.1	1202.5	1182.1	1167.8	1175.0	1169.0	1175.0	1169.0
25°	1326.8	1246.7	1170.2	1082.9	1010.0	953.8	916.8	894.1	855.8	870.2	857.0
27.5°	823.6	790.1	757.8	693.3	632.3	610.8	592.9	583.3	576.1	579.7	577.3
30°	713.6	686.1	661.0	627.5	580.9	552.2	530.7	511.6	505.6	506.8	505.6
32.5°	662.2	640.7	609.6	574.9	533.1	497.2	472.1	454.2	444.6	450.6	445.8
35°	592.9	571.3	545.0	512.8	476.9	444.6	420.7	404.0	393.2	395.6	394.4
37.5°	547.4	527.1	504.4	469.7	438.7	407.6	383.7	367.0	356.2	358.6	356.2
40°	521.1	498.4	474.5	443.5	412.4	380.1	357.4	338.3	327.5	327.5	327.5
42.5°	467.4	449.4	429.1	396.8	369.3	341.9	319.1	304.8	292.8	294.0	291.6
45°	399.2	386.1	370.5	349.0	326.3	304.8	285.7	274.9	265.4	266.5	265.4
47.5°	364.6	352.6	334.7	317.9	297.6	278.5	261.8	248.6	241.4	242.6	240.3
50°	351.4	337.1	316.8	294.0	274.9	255.8	239.1	229.5	222.3	223.5	222.3
52.5°	356.2	333.5	304.8	277.3	254.6	235.5	222.3	211.6	206.8	208.0	205.6
55°	387.3	347.8	304.8	270.1	241.4	219.9	206.8	194.8	190.1	190.1	190.1
57.5°	398.0	355.0	301.2	261.8	230.7	209.2	193.6	181.7	176.9	176.9	176.9
60°	372.9	335.9	286.9	249.8	221.1	200.8	187.7	179.3	175.7	175.7	175.7
62.5°	319.1	295.2	258.2	228.3	206.8	188.9	175.7	164.9	161.4	160.2	160.2
65°	289.3	266.5	235.5	210.4	191.2	176.9	164.9	156.6	151.8	151.8	151.8
67.5°	270.1	248.6	219.9	196.0	178.1	162.6	151.8	143.4	141.0	139.8	139.8
70°	248.6	228.3	199.6	178.1	161.4	148.2	137.5	130.3	127.9	127.9	126.7
72.5°	227.1	208.0	180.5	160.2	144.6	132.7	123.1	117.1	114.7	113.6	113.6
75°	206.8	187.7	162.6	143.4	129.1	118.3	110.0	104.0	101.6	101.6	101.6
77.5°	187.7	169.7	145.8	127.9	115.9	105.2	98.0	93.2	90.8	90.8	90.8
80°	169.7	151.8	130.3	113.6	101.6	93.2	87.3	82.5	80.1	81.3	80.1
82.5°	150.6	136.3	115.9	100.4	90.8	82.5	76.5	72.9	70.5	71.7	70.5
85°	135.1	120.7	101.6	88.5	78.9	71.7	66.9	63.4	61.0	62.2	61.0
87.5°	119.5	106.4	89.6	77.7	69.3	63.4	57.4	55.0	53.8	53.8	52.6
90°	102.8	90.8	76.5	66.9	58.6	53.8	49.0	46.6	45.4	44.2	44.2
92.5°	90.8	81.3	68.1	59.8	52.6	49.0	44.2	41.8	40.6	40.6	40.6
95°	80.1	71.7	61.0	53.8	49.0	44.2	40.6	39.4	38.2	38.2	37.1
97.5°	69.3	62.2	55.0	49.0	44.2	40.6	37.1	35.9	34.7	34.7	34.7
100°	58.6	53.8	47.8	43.0	39.4	37.1	33.5	32.3	31.1	31.1	31.1
102.5°	49.0	45.4	40.6	37.1	34.7	32.3	29.9	28.7	27.5	27.5	27.5
105°	43.0	39.4	37.1	33.5	31.1	28.7	27.5	25.1	23.9	23.9	23.9
107.5°	39.4	37.1	34.7	32.3	29.9	27.5	25.1	22.7	21.5	21.5	21.5
110°	38.2	35.9	33.5	31.1	28.7	26.3	25.1	21.5	20.3	20.3	20.3



REPORT NUMBER: P691062
 CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	38.2	37.1	34.7	32.3	29.9	27.5	25.1	20.3	19.1	19.1	19.1
115°	40.6	38.2	35.9	33.5	31.1	28.7	26.3	20.3	19.1	19.1	19.1
117.5°	44.2	41.8	38.2	35.9	33.5	29.9	26.3	21.5	19.1	19.1	19.1
120°	50.2	46.6	43.0	39.4	35.9	32.3	27.5	21.5	17.9	19.1	19.1
122.5°	57.4	53.8	47.8	43.0	39.4	34.7	28.7	22.7	17.9	19.1	19.1
125°	66.9	62.2	55.0	49.0	43.0	37.1	29.9	22.7	17.9	19.1	20.3
127.5°	77.7	70.5	62.2	53.8	46.6	39.4	32.3	23.9	17.9	20.3	20.3
130°	89.6	81.3	70.5	59.8	51.4	41.8	33.5	23.9	19.1	19.1	19.1
132.5°	102.8	90.8	76.5	64.5	53.8	43.0	33.5	23.9	19.1	19.1	19.1
135°	112.4	98.0	82.5	68.1	56.2	44.2	34.7	23.9	17.9	17.9	17.9
137.5°	120.7	104.0	87.3	70.5	57.4	44.2	33.5	22.7	17.9	16.7	16.7
140°	125.5	106.4	87.3	70.5	56.2	43.0	31.1	21.5	15.5	15.5	15.5
142.5°	125.5	105.2	86.1	68.1	52.6	40.6	29.9	19.1	14.3	14.3	14.3
145°	120.7	100.4	81.3	64.5	49.0	37.1	26.3	17.9	13.1	13.1	13.1
147.5°	112.4	92.0	74.1	58.6	43.0	32.3	22.7	14.3	10.8	10.8	10.8
150°	100.4	81.3	64.5	50.2	37.1	26.3	19.1	12.0	8.4	8.4	8.4
152.5°	83.7	68.1	52.6	41.8	29.9	21.5	14.3	9.6	7.2	7.2	7.2
155°	65.7	53.8	41.8	32.3	22.7	15.5	10.8	7.2	4.8	4.8	4.8
157.5°	50.2	40.6	31.1	23.9	16.7	12.0	8.4	4.8	3.6	3.6	3.6
160°	34.7	27.5	21.5	16.7	10.8	8.4	6.0	3.6	2.4	2.4	2.4
162.5°	22.7	17.9	13.1	9.6	7.2	4.8	3.6	2.4	1.2	1.2	1.2
165°	10.8	8.4	7.2	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
167.5°	3.6	2.4	2.4	1.2	1.2	1.2	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)