

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: P691061

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-16)
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-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2739 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - G1

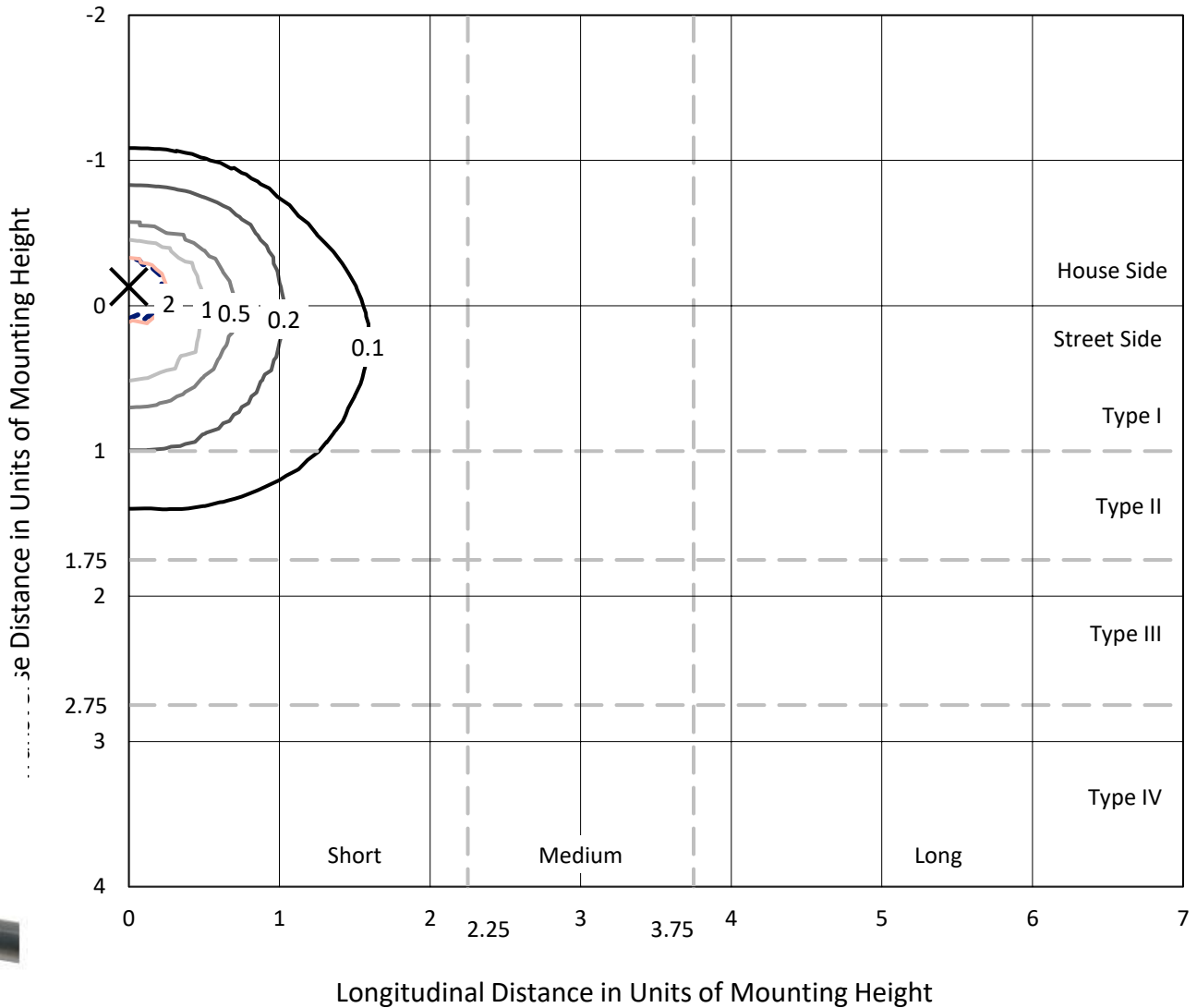
Input Watts (W): 23.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

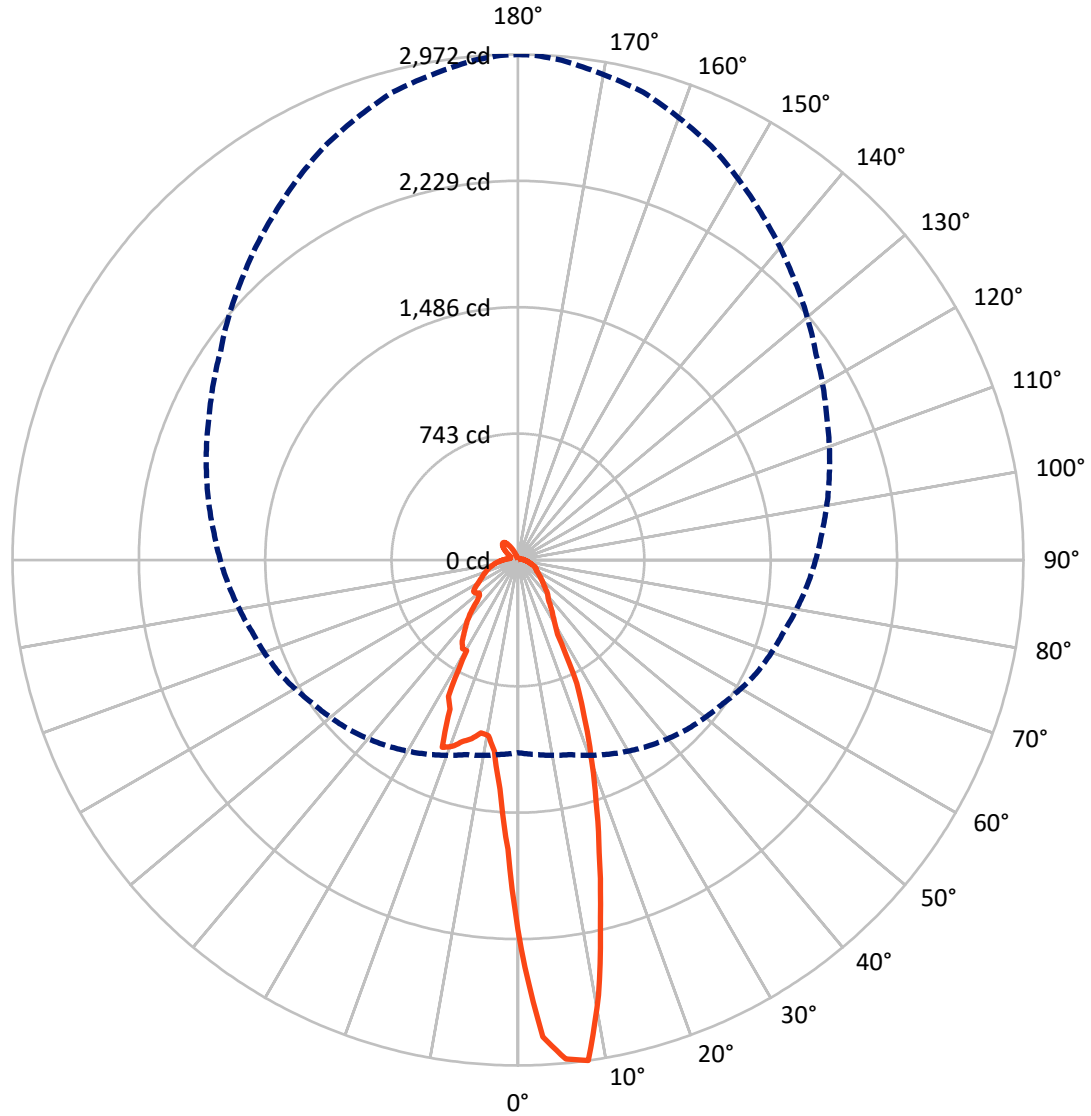
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type I - Short - N/A

REPORT NUMBER: P691061
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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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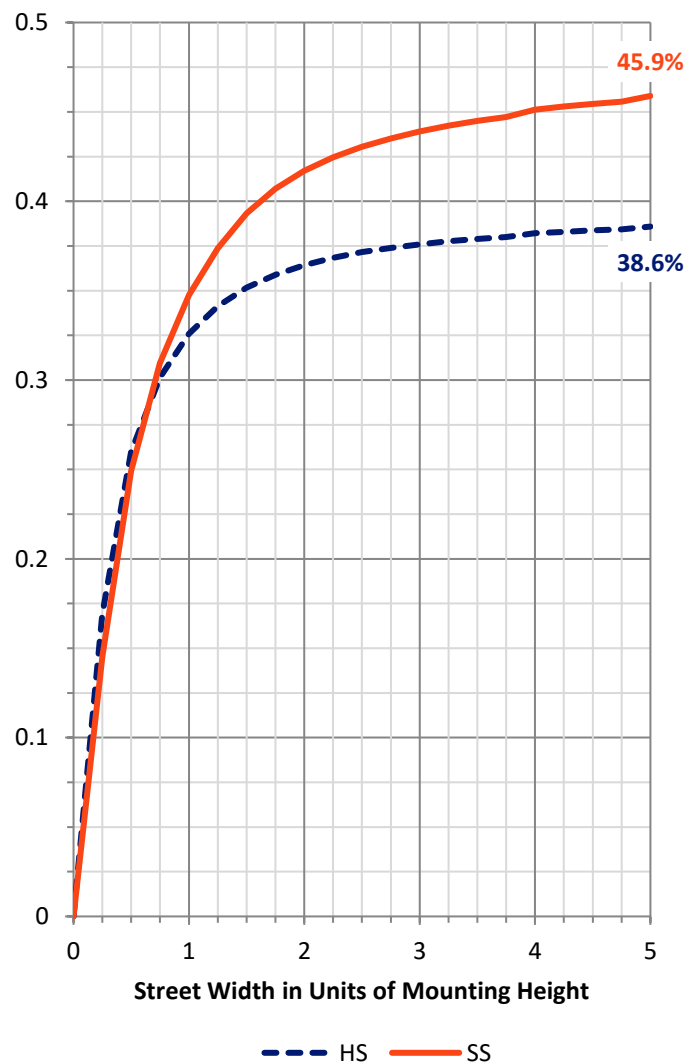
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1084.4	113.1	1197.5
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1293.1	248.3	1541.5
	% Fixture	47.2	9.1	56.3
Total	Lumens	2377.6	361.4	2739.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	6.7
10°-20°	392.6	14.3
20°-30°	433.5	15.8
30°-40°	314.4	11.5
40°-50°	264.9	9.7
50°-60°	270.4	9.9
60°-70°	230.5	8.4
70°-80°	171.8	6.3
80°-90°	116.0	4.2
90°-100°	69.3	2.5
100°-110°	39.9	1.5
110°-120°	37.3	1.4
120°-130°	54.3	2.0
130°-140°	73.8	2.7
140°-150°	60.0	2.2
150°-160°	24.0	0.9
160°-170°	2.9	0.1
170°-180°	0.0	0.0
0°-90°	2377.6	86.8
0°-180°	2739.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691061

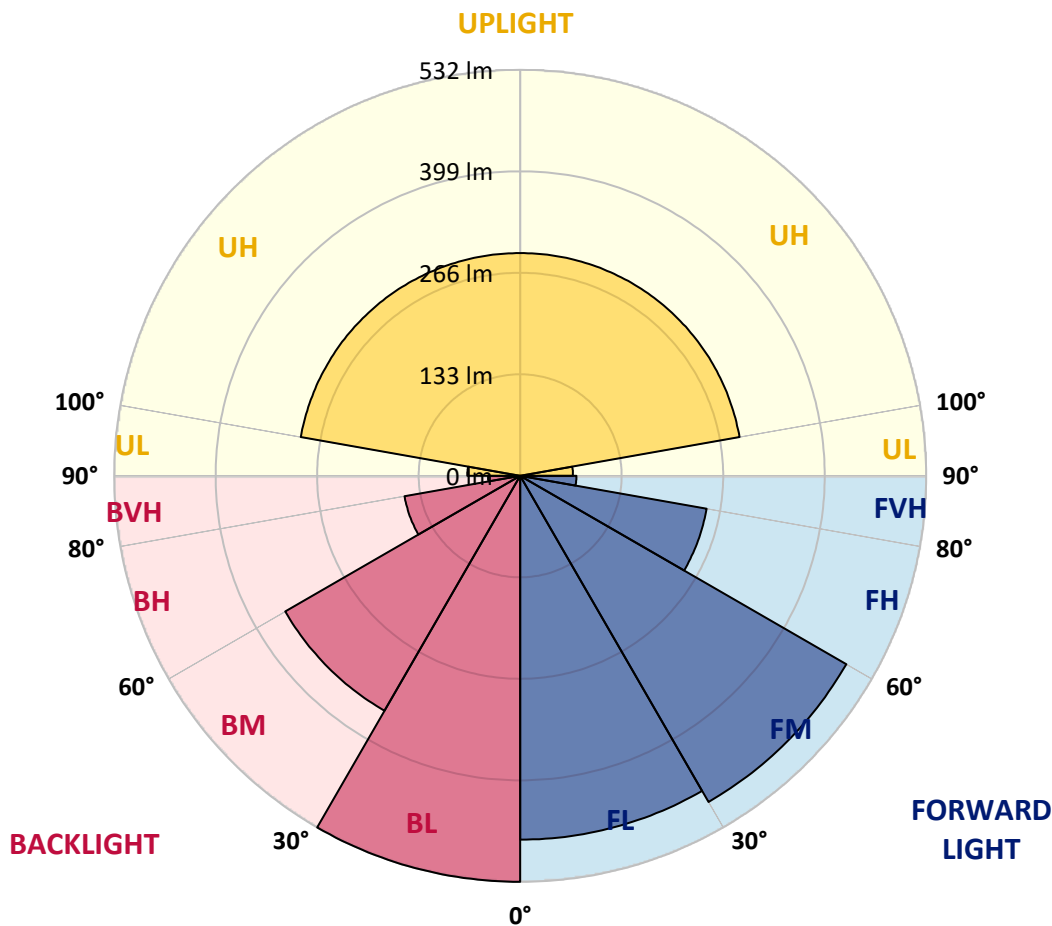
CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.1	17.4			
FM (30°-60°)	494.0	18.0			
FH (60°-80°)	248.3	9.1			G0/660
FVH (80°-90°)	73.8	2.7			G1/100
BL (0°-30°)	532.5	19.4	B2/1000		
BM (30°-60°)	355.8	13.0	B1/1000		
BH (60°-80°)	154.0	5.6	B1/500		G1/500
BVH (80°-90°)	42.2	1.5			G1/100
UL (90°-100°)	69.3	2.5		U3/500	
UH (100°-180°)	292.1	10.7		U3/500	

BUG Rating: B2-U3-G1

Type I Short





REPORT NUMBER: P691061

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3
2.5°	1699.8	1739.3	1742.9	1785.9	1818.2	1848.0	1869.6	1931.7	1995.1	2054.8	2089.5
5°	1349.6	1368.7	1403.4	1450.0	1509.8	1556.4	1623.3	1710.6	1794.3	1899.4	1950.8
7.5°	1133.2	1147.6	1184.6	1259.9	1335.2	1407.0	1471.5	1555.2	1619.7	1707.0	1750.0
10°	1047.1	1055.5	1086.6	1139.2	1210.9	1270.7	1326.9	1390.2	1447.6	1527.7	1558.8
12.5°	1038.8	1042.4	1067.5	1104.5	1146.4	1195.4	1242.0	1295.8	1356.7	1420.1	1444.0
15°	1084.2	1081.8	1090.2	1111.7	1135.6	1173.9	1216.9	1265.9	1324.5	1371.1	1390.2
17.5°	1116.5	1115.3	1130.8	1140.4	1163.1	1185.8	1228.8	1267.1	1324.5	1361.5	1372.3
20°	1163.1	1165.5	1170.3	1188.2	1197.8	1213.3	1239.6	1262.3	1311.3	1332.8	1330.4
22.5°	1188.2	1187.0	1207.3	1249.2	1259.9	1268.3	1273.1	1282.6	1310.1	1308.9	1291.0
25°	963.5	965.9	970.6	1006.5	1051.9	1126.0	1187.0	1282.6	1334.0	1314.9	1276.7
27.5°	900.1	892.9	867.8	847.5	786.6	745.9	707.7	690.9	699.3	713.6	753.1
30°	613.2	614.4	616.8	620.4	626.4	641.9	652.7	653.9	662.2	686.1	677.8
32.5°	614.4	615.6	612.0	615.6	613.2	619.2	618.0	613.2	620.4	641.9	633.5
35°	577.4	575.0	577.4	578.6	565.4	560.6	559.4	555.8	560.6	571.4	564.2
37.5°	520.0	518.8	529.5	535.5	524.8	524.8	522.4	517.6	521.2	530.7	521.2
40°	469.8	471.0	486.5	496.1	492.5	496.1	499.7	498.5	506.8	510.4	498.5
42.5°	414.8	412.4	427.9	435.1	427.9	430.3	429.1	430.3	447.1	454.2	445.9
45°	346.7	350.2	357.4	367.0	365.8	369.4	368.2	370.6	381.3	384.9	378.9
47.5°	308.4	310.8	319.2	329.9	335.9	341.9	341.9	343.1	350.2	351.4	345.5
50°	300.0	302.4	313.2	325.1	334.7	341.9	345.5	344.3	347.9	345.5	337.1
52.5°	314.4	314.4	331.1	345.5	357.4	370.6	375.3	370.6	370.6	361.0	347.9
55°	320.4	321.6	341.9	367.0	389.7	413.6	429.1	427.9	426.7	411.2	387.3
57.5°	301.2	304.8	325.1	353.8	384.9	423.2	445.9	449.5	449.5	429.1	402.8
60°	273.7	276.1	291.7	315.6	346.7	375.3	399.3	401.6	408.8	398.1	374.2
62.5°	251.0	253.4	266.6	284.5	307.2	325.1	332.3	332.3	335.9	332.3	315.6
65°	234.3	235.5	246.2	261.8	277.3	291.7	298.8	296.5	301.2	296.5	283.3
67.5°	218.8	218.8	228.3	240.3	254.6	271.3	276.1	278.5	283.3	277.3	265.4
70°	203.2	204.4	214.0	223.5	236.7	248.6	253.4	254.6	260.6	253.4	245.1
72.5°	190.1	190.1	198.4	208.0	217.6	229.5	233.1	235.5	239.1	231.9	224.7
75°	174.5	175.7	182.9	191.3	199.6	211.6	215.2	216.4	219.9	211.6	204.4
77.5°	160.2	161.4	167.4	174.5	182.9	192.5	196.0	198.4	199.6	192.5	185.3
80°	145.8	147.0	151.8	159.0	166.2	175.7	178.1	179.3	181.7	173.3	168.5
82.5°	132.7	132.7	136.3	142.2	149.4	157.8	161.4	162.6	163.8	156.6	151.8
85°	117.1	117.1	120.7	126.7	132.7	141.1	144.6	145.8	145.8	139.9	135.1
87.5°	104.0	104.0	106.4	111.2	116.0	124.3	127.9	130.3	129.1	124.3	119.5
90°	90.8	90.8	93.2	96.8	101.6	108.8	112.4	113.6	113.6	107.6	104.0
92.5°	78.9	78.9	81.3	84.9	88.5	94.4	98.0	100.4	100.4	95.6	92.0
95°	68.1	68.1	69.3	72.9	76.5	81.3	83.7	86.1	86.1	83.7	80.1
97.5°	58.6	58.6	59.8	62.2	64.6	68.1	70.5	72.9	72.9	71.7	69.3
100°	51.4	51.4	51.4	52.6	55.0	56.2	58.6	61.0	61.0	59.8	58.6
102.5°	46.6	46.6	46.6	46.6	46.6	47.8	47.8	49.0	49.0	49.0	47.8
105°	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	43.0	41.8	40.6
107.5°	44.2	43.0	43.0	43.0	43.0	41.8	41.8	41.8	40.6	39.4	38.3
110°	44.2	44.2	44.2	44.2	43.0	41.8	41.8	40.6	39.4	38.3	37.1



REPORT NUMBER: P691061

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	46.6	46.6	46.6	45.4	44.2	44.2	43.0	41.8	40.6	38.3	37.1
115°	50.2	50.2	50.2	50.2	49.0	46.6	45.4	44.2	41.8	40.6	39.4
117.5°	56.2	56.2	56.2	56.2	53.8	52.6	50.2	49.0	46.6	44.2	43.0
120°	63.4	63.4	64.6	64.6	63.4	61.0	57.4	56.2	53.8	50.2	47.8
122.5°	74.1	72.9	75.3	75.3	75.3	72.9	68.1	65.7	63.4	58.6	56.2
125°	84.9	84.9	87.3	89.7	90.8	87.3	82.5	78.9	75.3	69.3	65.7
127.5°	96.8	96.8	101.6	106.4	108.8	105.2	99.2	95.6	90.8	82.5	77.7
130°	108.8	108.8	116.0	123.1	126.7	124.3	118.3	113.6	107.6	96.8	90.8
132.5°	119.5	119.5	127.9	137.5	142.2	141.1	135.1	130.3	125.5	112.4	104.0
135°	127.9	129.1	139.9	150.6	156.6	157.8	151.8	145.8	139.9	125.5	116.0
137.5°	132.7	135.1	145.8	159.0	165.0	168.5	165.0	159.0	151.8	136.3	125.5
140°	133.9	135.1	147.0	160.2	166.2	170.9	170.9	163.8	157.8	142.2	130.3
142.5°	130.3	131.5	143.4	155.4	161.4	167.4	168.5	162.6	156.6	142.2	130.3
145°	121.9	124.3	135.1	144.6	153.0	159.0	161.4	157.8	150.6	137.5	126.7
147.5°	111.2	112.4	121.9	130.3	138.7	145.8	149.4	145.8	139.9	127.9	118.3
150°	94.4	95.6	102.8	110.0	119.5	126.7	131.5	129.1	124.3	114.8	105.2
152.5°	76.5	76.5	82.5	88.5	96.8	104.0	108.8	107.6	104.0	95.6	88.5
155°	58.6	58.6	62.2	66.9	74.1	78.9	83.7	83.7	81.3	75.3	69.3
157.5°	41.8	41.8	45.4	49.0	53.8	58.6	62.2	62.2	61.0	56.2	52.6
160°	27.5	27.5	29.9	32.3	37.1	39.4	43.0	43.0	41.8	39.4	37.1
162.5°	14.3	14.3	16.7	17.9	21.5	23.9	26.3	27.5	27.5	25.1	23.9
165°	4.8	4.8	4.8	6.0	8.4	10.8	12.0	13.1	13.1	12.0	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	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: P691061

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3
2.5°	2126.6	2235.3	2328.6	2426.6	2535.4	2627.4	2720.7	2772.1	2816.3	2807.9	2807.9
5°	2001.1	2109.8	2223.4	2342.9	2490.0	2640.6	2784.0	2886.8	2940.6	2949.0	2947.8
7.5°	1793.1	1894.7	2002.2	2134.9	2307.1	2491.2	2686.0	2847.4	2949.0	2968.1	2971.7
10°	1587.5	1664.0	1754.8	1845.7	1999.9	2168.4	2342.9	2472.0	2571.2	2585.6	2602.3
12.5°	1464.3	1506.2	1564.7	1628.1	1728.5	1851.6	1995.1	2069.2	2132.5	2139.7	2155.3
15°	1401.0	1421.3	1435.6	1458.4	1518.1	1594.6	1660.4	1733.3	1759.6	1777.5	1785.9
17.5°	1375.9	1373.5	1359.1	1359.1	1363.9	1392.6	1434.4	1459.5	1476.3	1484.7	1487.0
20°	1324.5	1303.0	1274.3	1236.0	1215.7	1206.1	1216.9	1222.9	1218.1	1212.1	1222.9
22.5°	1270.7	1225.3	1173.9	1129.6	1077.0	1044.8	1013.7	1002.9	989.8	998.1	998.1
25°	1253.9	1173.9	1091.4	1017.3	938.4	884.6	827.2	806.9	786.6	803.3	803.3
27.5°	741.1	741.1	694.5	632.4	564.2	535.5	512.8	499.7	491.3	494.9	494.9
30°	663.4	632.4	603.7	564.2	511.6	477.0	447.1	429.1	420.8	418.4	420.8
32.5°	615.6	591.7	557.0	517.6	471.0	432.7	399.3	381.3	368.2	370.6	371.8
35°	551.1	526.0	496.1	459.0	419.6	383.7	353.8	335.9	323.9	323.9	325.1
37.5°	510.4	485.3	456.6	423.2	384.9	350.2	322.8	301.2	290.5	289.3	289.3
40°	485.3	460.2	433.9	400.4	364.6	328.7	301.2	282.1	269.0	269.0	270.2
42.5°	439.9	416.0	393.3	363.4	331.1	300.0	273.7	257.0	243.9	241.5	243.9
45°	370.6	357.4	339.5	319.2	291.7	266.6	242.7	228.3	217.6	217.6	216.4
47.5°	339.5	326.3	307.2	286.9	264.2	239.1	219.9	206.8	197.2	197.2	197.2
50°	327.5	313.2	289.3	266.6	240.3	218.8	202.0	188.9	181.7	181.7	180.5
52.5°	333.5	310.8	279.7	247.4	222.3	200.8	184.1	170.9	165.0	165.0	163.8
55°	365.8	325.1	279.7	240.3	210.4	186.5	169.7	155.4	149.4	149.4	149.4
57.5°	378.9	333.5	277.3	233.1	199.6	174.5	154.2	141.1	135.1	135.1	133.9
60°	355.0	316.8	265.4	223.5	191.3	166.2	147.0	133.9	126.7	126.7	125.5
62.5°	302.4	274.9	235.5	204.4	179.3	156.6	139.9	126.7	120.7	120.7	120.7
65°	271.3	247.4	216.4	188.9	166.2	147.0	131.5	120.7	114.8	114.8	114.8
67.5°	253.4	233.1	202.0	175.7	153.0	135.1	120.7	111.2	106.4	105.2	106.4
70°	234.3	212.8	184.1	159.0	138.7	121.9	108.8	99.2	94.4	94.4	94.4
72.5°	214.0	193.7	166.2	143.4	123.1	110.0	96.8	88.5	83.7	83.7	82.5
75°	194.8	174.5	148.2	126.7	110.0	96.8	86.1	78.9	74.1	74.1	74.1
77.5°	176.9	157.8	132.7	113.6	98.0	87.3	76.5	70.5	66.9	66.9	65.7
80°	160.2	142.2	118.3	101.6	87.3	77.7	68.1	63.4	59.8	59.8	59.8
82.5°	143.4	126.7	105.2	89.7	77.7	68.1	61.0	56.2	53.8	52.6	53.8
85°	127.9	112.4	93.2	78.9	68.1	59.8	53.8	49.0	46.6	46.6	46.6
87.5°	113.6	99.2	82.5	69.3	59.8	52.6	46.6	43.0	41.8	40.6	40.6
90°	98.0	84.9	70.5	59.8	51.4	45.4	39.4	37.1	34.7	34.7	34.7
92.5°	87.3	76.5	63.4	53.8	46.6	41.8	37.1	34.7	32.3	32.3	32.3
95°	76.5	66.9	56.2	49.0	43.0	38.3	34.7	32.3	31.1	31.1	31.1
97.5°	65.7	58.6	50.2	44.2	39.4	35.9	32.3	29.9	28.7	28.7	28.7
100°	55.0	50.2	44.2	39.4	35.9	32.3	28.7	27.5	26.3	26.3	26.3
102.5°	45.4	41.8	37.1	33.5	29.9	27.5	25.1	23.9	22.7	22.7	22.7
105°	39.4	37.1	33.5	29.9	27.5	25.1	22.7	20.3	20.3	20.3	20.3
107.5°	37.1	33.5	31.1	28.7	26.3	22.7	21.5	19.1	17.9	17.9	17.9
110°	35.9	33.5	31.1	27.5	25.1	22.7	20.3	17.9	16.7	16.7	16.7



REPORT NUMBER: P691061
 CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	35.9	33.5	31.1	28.7	26.3	22.7	21.5	16.7	15.5	15.5	15.5
115°	38.3	35.9	32.3	29.9	26.3	23.9	21.5	16.7	15.5	15.5	15.5
117.5°	40.6	38.3	34.7	32.3	28.7	25.1	21.5	16.7	15.5	15.5	15.5
120°	46.6	43.0	38.3	34.7	31.1	26.3	22.7	16.7	14.3	15.5	15.5
122.5°	52.6	49.0	43.0	38.3	33.5	28.7	22.7	16.7	14.3	15.5	15.5
125°	62.2	56.2	49.0	43.0	35.9	29.9	23.9	16.7	13.1	14.3	15.5
127.5°	72.9	65.7	56.2	47.8	39.4	31.1	23.9	16.7	13.1	14.3	14.3
130°	84.9	75.3	63.4	51.4	41.8	32.3	23.9	16.7	13.1	14.3	14.3
132.5°	96.8	83.7	69.3	56.2	44.2	33.5	23.9	15.5	13.1	13.1	13.1
135°	106.4	90.8	74.1	58.6	45.4	33.5	22.7	15.5	12.0	12.0	12.0
137.5°	114.8	96.8	77.7	59.8	45.4	32.3	21.5	14.3	10.8	10.8	10.8
140°	119.5	99.2	78.9	58.6	43.0	31.1	20.3	13.1	9.6	9.6	9.6
142.5°	119.5	98.0	76.5	57.4	40.6	28.7	17.9	10.8	8.4	8.4	8.4
145°	114.8	93.2	72.9	53.8	37.1	25.1	15.5	9.6	7.2	7.2	7.2
147.5°	107.6	86.1	66.9	49.0	33.5	21.5	13.1	8.4	6.0	6.0	6.0
150°	95.6	76.5	58.6	41.8	28.7	17.9	10.8	7.2	4.8	4.8	4.8
152.5°	80.1	63.4	49.0	34.7	23.9	14.3	9.6	4.8	3.6	3.6	3.6
155°	63.4	50.2	38.3	27.5	17.9	10.8	7.2	4.8	2.4	2.4	2.4
157.5°	47.8	37.1	28.7	20.3	13.1	8.4	4.8	3.6	2.4	2.4	2.4
160°	33.5	26.3	19.1	13.1	8.4	6.0	3.6	2.4	1.2	1.2	1.2
162.5°	21.5	16.7	12.0	8.4	4.8	3.6	2.4	1.2	1.2	1.2	0.0
165°	10.8	8.4	6.0	3.6	2.4	1.2	1.2	1.2	0.0	0.0	0.0
167.5°	2.4	2.4	2.4	1.2	1.2	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)