

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: P691053

Luminaire Tested: **CRTK2-C013-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691053
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-T3-7040-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 2707 lumens
Efficiency: N/A
Efficacy: 116.7 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



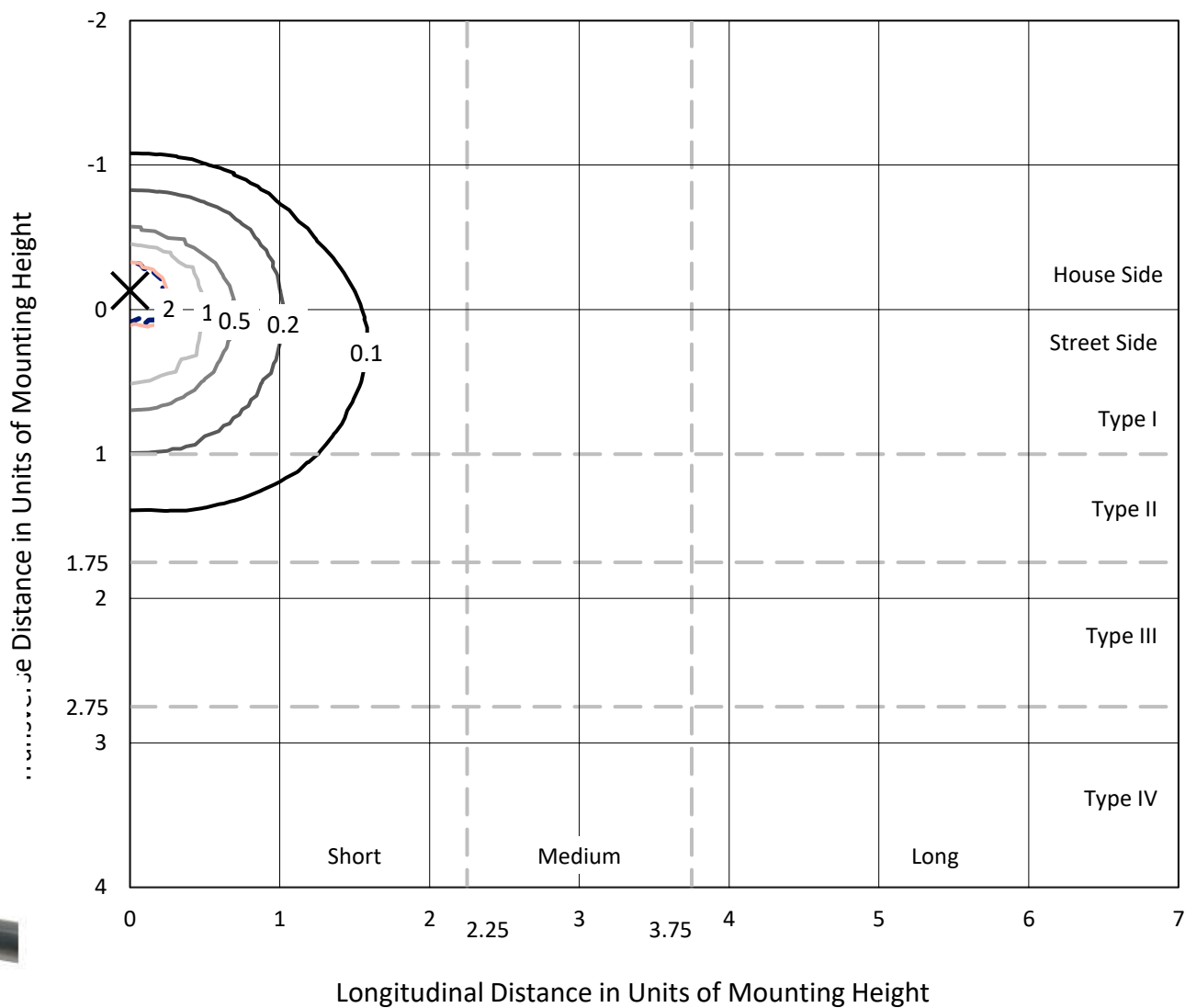
REPORT NUMBER: P691053

CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



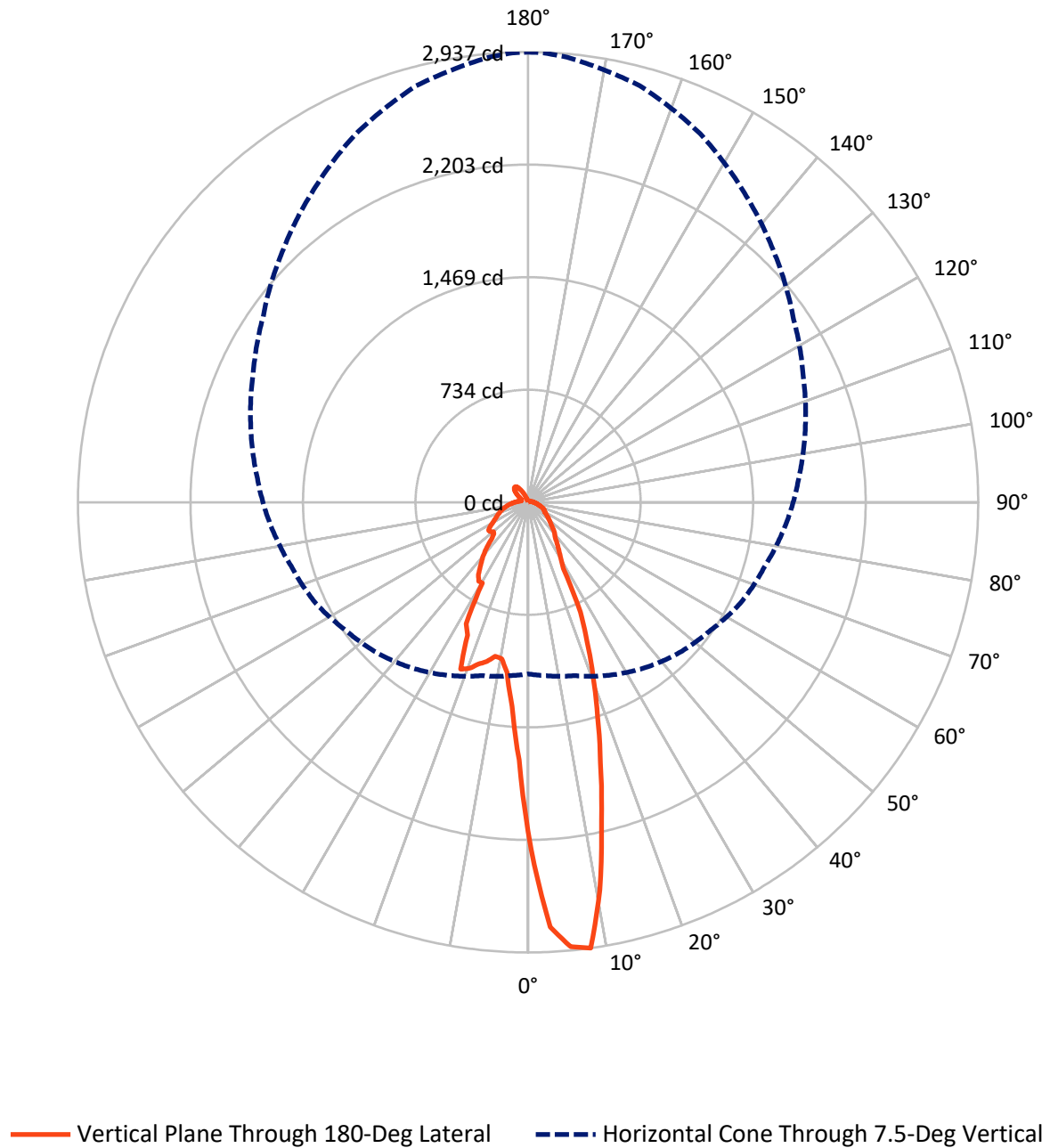
Based on 25 foot mounting height. Maximum calculated value = 4.6 fc

Type I - Short - N/A

REPORT NUMBER: P691053

CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691053

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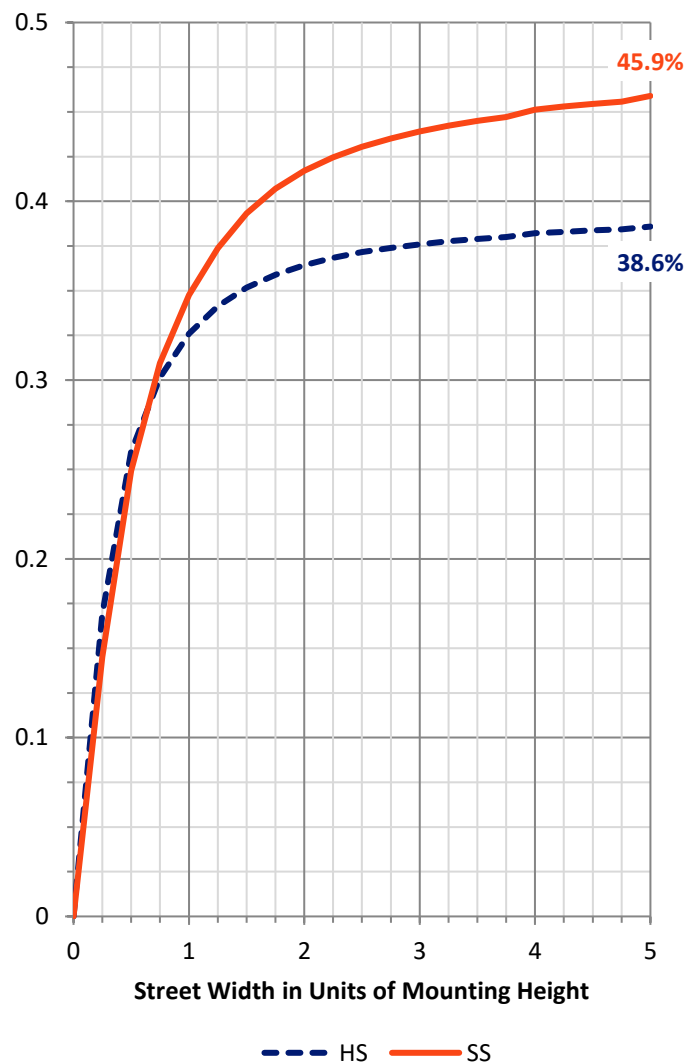
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.7	111.8	1183.5
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1278.0	245.4	1523.5
	% Fixture	47.2	9.1	56.3
Total	Lumens	2349.8	357.2	2707.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	6.7
10°-20°	388.0	14.3
20°-30°	428.4	15.8
30°-40°	310.7	11.5
40°-50°	261.8	9.7
50°-60°	267.3	9.9
60°-70°	227.8	8.4
70°-80°	169.8	6.3
80°-90°	114.6	4.2
90°-100°	68.5	2.5
100°-110°	39.4	1.5
110°-120°	36.8	1.4
120°-130°	53.7	2.0
130°-140°	72.9	2.7
140°-150°	59.3	2.2
150°-160°	23.7	0.9
160°-170°	2.9	0.1
170°-180°	0.0	0.0
0°-90°	2349.8	86.8
0°-180°	2707.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691053

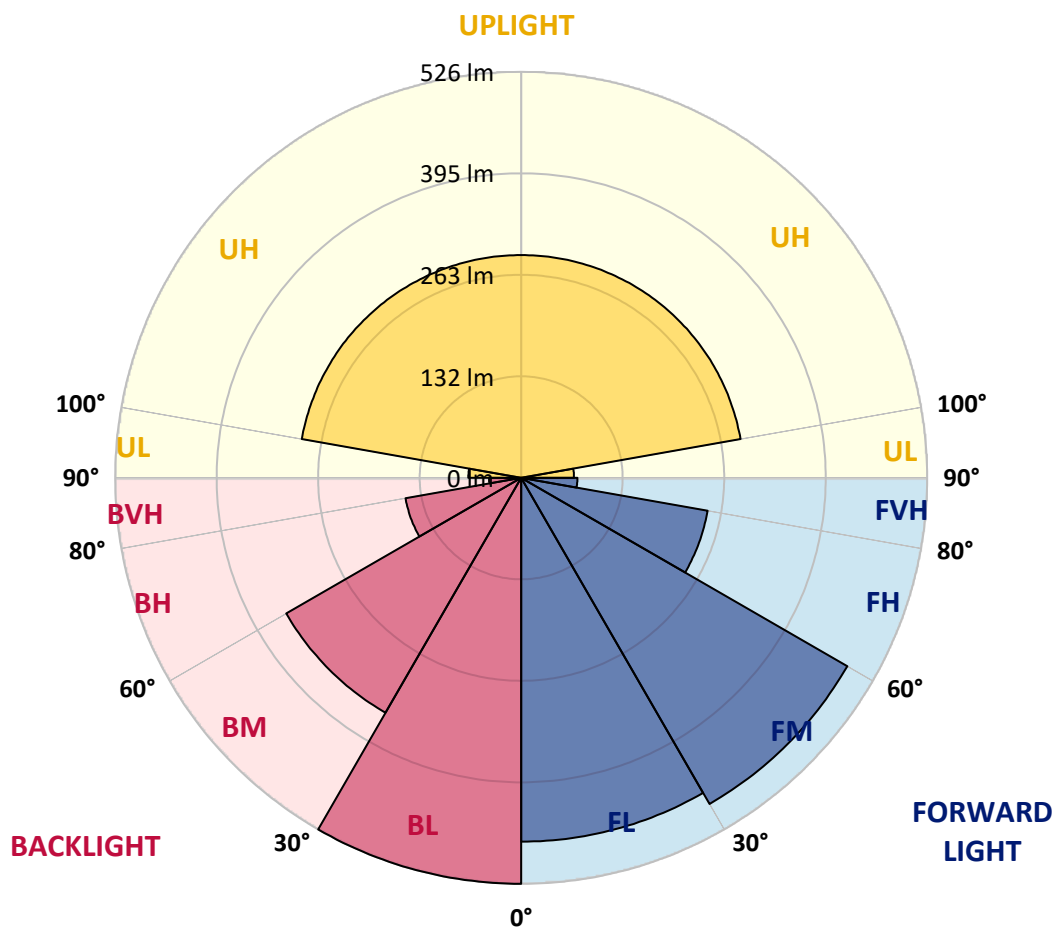
CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	471.6	17.4			
FM	(30°-60°)	488.2	18.0			
FH	(60°-80°)	245.4	9.1			G0/660
FVH	(80°-90°)	72.9	2.7			G1/100
BL	(0°-30°)	526.2	19.4	B2/1000		
BM	(30°-60°)	351.6	13.0	B1/1000		
BH	(60°-80°)	152.2	5.6	B1/500		G1/500
BVH	(80°-90°)	41.7	1.5			G1/100
UL	(90°-100°)	68.5	2.5		U3/500	
UH	(100°-180°)	288.7	10.7		U3/500	

BUG Rating: B2-U3-G1

Type I Short



REPORT NUMBER: P691053

CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6
2.5°	1680.0	1718.9	1722.5	1765.0	1796.9	1826.5	1847.7	1909.2	1971.8	2030.8	2065.1
5°	1333.8	1352.7	1387.0	1433.0	1492.1	1538.2	1604.3	1690.6	1773.3	1877.3	1928.1
7.5°	1120.0	1134.1	1170.8	1245.2	1319.6	1390.5	1454.3	1537.0	1600.8	1687.0	1729.6
10°	1034.9	1043.2	1073.9	1125.9	1196.8	1255.8	1311.4	1374.0	1430.7	1509.8	1540.6
12.5°	1026.6	1030.2	1055.0	1091.6	1133.0	1181.4	1227.5	1280.6	1340.9	1403.5	1427.1
15°	1071.5	1069.2	1077.4	1098.7	1122.3	1160.1	1202.7	1251.1	1309.0	1355.1	1374.0
17.5°	1103.4	1102.3	1117.6	1127.1	1149.5	1172.0	1214.5	1252.3	1309.0	1345.6	1356.3
20°	1149.5	1151.9	1156.6	1174.3	1183.8	1199.1	1225.1	1247.6	1296.0	1317.3	1314.9
22.5°	1174.3	1173.1	1193.2	1234.6	1245.2	1253.5	1258.2	1267.6	1294.8	1293.6	1275.9
25°	952.2	954.6	959.3	994.7	1039.6	1112.9	1173.1	1267.6	1318.4	1299.5	1261.7
27.5°	889.6	882.5	857.7	837.6	777.4	737.2	699.4	682.9	691.1	705.3	744.3
30°	606.1	607.2	609.6	613.1	619.1	634.4	645.0	646.2	654.5	678.1	669.9
32.5°	607.2	608.4	604.9	608.4	606.1	612.0	610.8	606.1	613.1	634.4	626.1
35°	570.6	568.3	570.6	571.8	558.8	554.1	552.9	549.4	554.1	564.7	557.6
37.5°	513.9	512.7	523.4	529.3	518.6	518.6	516.3	511.5	515.1	524.5	515.1
40°	464.3	465.5	480.8	490.3	486.7	490.3	493.8	492.6	500.9	504.5	492.6
42.5°	409.9	407.6	422.9	430.0	422.9	425.3	424.1	425.3	441.8	448.9	440.7
45°	342.6	346.2	353.2	362.7	361.5	365.1	363.9	366.2	376.9	380.4	374.5
47.5°	304.8	307.2	315.4	326.1	332.0	337.9	337.9	339.1	346.2	347.3	341.4
50°	296.5	298.9	309.5	321.3	330.8	337.9	341.4	340.2	343.8	341.4	333.2
52.5°	310.7	310.7	327.2	341.4	353.2	366.2	371.0	366.2	366.2	356.8	343.8
55°	316.6	317.8	337.9	362.7	385.1	408.8	424.1	422.9	421.8	406.4	382.8
57.5°	297.7	301.3	321.3	349.7	380.4	418.2	440.7	444.2	444.2	424.1	398.1
60°	270.5	272.9	288.3	311.9	342.6	371.0	394.6	397.0	404.0	393.4	369.8
62.5°	248.1	250.5	263.5	281.2	303.6	321.3	328.4	328.4	332.0	328.4	311.9
65°	231.6	232.7	243.4	258.7	274.1	288.3	295.4	293.0	297.7	293.0	280.0
67.5°	216.2	216.2	225.6	237.5	251.6	268.2	272.9	275.3	280.0	274.1	262.3
70°	200.8	202.0	211.5	220.9	233.9	245.7	250.5	251.6	257.5	250.5	242.2
72.5°	187.8	187.8	196.1	205.6	215.0	226.8	230.4	232.7	236.3	229.2	222.1
75°	172.5	173.7	180.8	189.0	197.3	209.1	212.7	213.8	217.4	209.1	202.0
77.5°	158.3	159.5	165.4	172.5	180.8	190.2	193.8	196.1	197.3	190.2	183.1
80°	144.1	145.3	150.0	157.1	164.2	173.7	176.0	177.2	179.6	171.3	166.6
82.5°	131.1	131.1	134.7	140.6	147.7	155.9	159.5	160.7	161.9	154.8	150.0
85°	115.8	115.8	119.3	125.2	131.1	139.4	143.0	144.1	144.1	138.2	133.5
87.5°	102.8	102.8	105.1	109.9	114.6	122.9	126.4	128.8	127.6	122.9	118.1
90°	89.8	89.8	92.1	95.7	100.4	107.5	111.1	112.2	112.2	106.3	102.8
92.5°	78.0	78.0	80.3	83.9	87.4	93.3	96.9	99.2	99.2	94.5	91.0
95°	67.3	67.3	68.5	72.1	75.6	80.3	82.7	85.1	85.1	82.7	79.2
97.5°	57.9	57.9	59.1	61.4	63.8	67.3	69.7	72.1	72.1	70.9	68.5
100°	50.8	50.8	50.8	52.0	54.3	55.5	57.9	60.3	60.3	59.1	57.9
102.5°	46.1	46.1	46.1	46.1	46.1	47.3	47.3	48.4	48.4	48.4	47.3
105°	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	42.5	41.3	40.2
107.5°	43.7	42.5	42.5	42.5	42.5	41.3	41.3	41.3	40.2	39.0	37.8
110°	43.7	43.7	43.7	43.7	42.5	41.3	41.3	40.2	39.0	37.8	36.6

REPORT NUMBER: P691053

CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	46.1	46.1	46.1	44.9	43.7	43.7	42.5	41.3	40.2	37.8	36.6
115°	49.6	49.6	49.6	49.6	48.4	46.1	44.9	43.7	41.3	40.2	39.0
117.5°	55.5	55.5	55.5	55.5	53.2	52.0	49.6	48.4	46.1	43.7	42.5
120°	62.6	62.6	63.8	63.8	62.6	60.3	56.7	55.5	53.2	49.6	47.3
122.5°	73.2	72.1	74.4	74.4	74.4	72.1	67.3	65.0	62.6	57.9	55.5
125°	83.9	83.9	86.2	88.6	89.8	86.2	81.5	78.0	74.4	68.5	65.0
127.5°	95.7	95.7	100.4	105.1	107.5	104.0	98.1	94.5	89.8	81.5	76.8
130°	107.5	107.5	114.6	121.7	125.2	122.9	117.0	112.2	106.3	95.7	89.8
132.5°	118.1	118.1	126.4	135.9	140.6	139.4	133.5	128.8	124.0	111.1	102.8
135°	126.4	127.6	138.2	148.9	154.8	155.9	150.0	144.1	138.2	124.0	114.6
137.5°	131.1	133.5	144.1	157.1	163.0	166.6	163.0	157.1	150.0	134.7	124.0
140°	132.3	133.5	145.3	158.3	164.2	168.9	168.9	161.9	155.9	140.6	128.8
142.5°	128.8	130.0	141.8	153.6	159.5	165.4	166.6	160.7	154.8	140.6	128.8
145°	120.5	122.9	133.5	143.0	151.2	157.1	159.5	155.9	148.9	135.9	125.2
147.5°	109.9	111.1	120.5	128.8	137.0	144.1	147.7	144.1	138.2	126.4	117.0
150°	93.3	94.5	101.6	108.7	118.1	125.2	130.0	127.6	122.9	113.4	104.0
152.5°	75.6	75.6	81.5	87.4	95.7	102.8	107.5	106.3	102.8	94.5	87.4
155°	57.9	57.9	61.4	66.2	73.2	78.0	82.7	82.7	80.3	74.4	68.5
157.5°	41.3	41.3	44.9	48.4	53.2	57.9	61.4	61.4	60.3	55.5	52.0
160°	27.2	27.2	29.5	31.9	36.6	39.0	42.5	42.5	41.3	39.0	36.6
162.5°	14.2	14.2	16.5	17.7	21.3	23.6	26.0	27.2	27.2	24.8	23.6
165°	4.7	4.7	4.7	5.9	8.3	10.6	11.8	13.0	13.0	11.8	11.8
167.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.5	3.5	3.5	3.5
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: P691053

CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6	2263.6
2.5°	2101.7	2209.2	2301.4	2398.3	2505.8	2596.7	2688.9	2739.7	2783.4	2775.1	2775.1
5°	1977.7	2085.2	2197.4	2315.6	2460.9	2609.7	2751.5	2853.1	2906.3	2914.5	2913.3
7.5°	1772.1	1872.5	1978.9	2110.0	2280.1	2462.0	2654.6	2814.1	2914.5	2933.4	2937.0
10°	1568.9	1644.5	1734.3	1824.1	1976.5	2143.1	2315.6	2443.1	2541.2	2555.4	2571.9
12.5°	1447.2	1488.6	1546.5	1609.1	1708.3	1830.0	1971.8	2045.0	2107.6	2114.7	2130.1
15°	1384.6	1404.7	1418.9	1441.3	1500.4	1576.0	1641.0	1713.0	1739.0	1756.7	1765.0
17.5°	1359.8	1357.4	1343.3	1343.3	1348.0	1376.3	1417.7	1442.5	1459.0	1467.3	1469.7
20°	1309.0	1287.7	1259.4	1221.6	1201.5	1192.0	1202.7	1208.6	1203.9	1197.9	1208.6
22.5°	1255.8	1210.9	1160.1	1116.4	1064.4	1032.5	1001.8	991.2	978.2	986.5	986.5
25°	1239.3	1160.1	1078.6	1005.4	927.4	874.2	817.5	797.4	777.4	793.9	793.9
27.5°	732.5	732.5	686.4	625.0	557.6	529.3	506.8	493.8	485.6	489.1	489.1
30°	655.7	625.0	596.6	557.6	505.6	471.4	441.8	424.1	415.9	413.5	415.9
32.5°	608.4	584.8	550.5	511.5	465.5	427.7	394.6	376.9	363.9	366.2	367.4
35°	544.6	519.8	490.3	453.7	414.7	379.2	349.7	332.0	320.2	320.2	321.3
37.5°	504.5	479.7	451.3	418.2	380.4	346.2	319.0	297.7	287.1	285.9	285.9
40°	479.7	454.8	428.9	395.8	360.3	324.9	297.7	278.8	265.8	265.8	267.0
42.5°	434.8	411.1	388.7	359.1	327.2	296.5	270.5	254.0	241.0	238.6	241.0
45°	366.2	353.2	335.5	315.4	288.3	263.5	239.8	225.6	215.0	215.0	213.8
47.5°	335.5	322.5	303.6	283.5	261.1	236.3	217.4	204.4	194.9	194.9	194.9
50°	323.7	309.5	285.9	263.5	237.5	216.2	199.7	186.7	179.6	179.6	178.4
52.5°	329.6	307.2	276.4	244.6	219.7	198.5	181.9	168.9	163.0	163.0	161.9
55°	361.5	321.3	276.4	237.5	207.9	184.3	167.8	153.6	147.7	147.7	147.7
57.5°	374.5	329.6	274.1	230.4	197.3	172.5	152.4	139.4	133.5	133.5	132.3
60°	350.9	313.1	262.3	220.9	189.0	164.2	145.3	132.3	125.2	125.2	124.0
62.5°	298.9	271.7	232.7	202.0	177.2	154.8	138.2	125.2	119.3	119.3	119.3
65°	268.2	244.6	213.8	186.7	164.2	145.3	130.0	119.3	113.4	113.4	113.4
67.5°	250.5	230.4	199.7	173.7	151.2	133.5	119.3	109.9	105.1	104.0	105.1
70°	231.6	210.3	181.9	157.1	137.0	120.5	107.5	98.1	93.3	93.3	93.3
72.5°	211.5	191.4	164.2	141.8	121.7	108.7	95.7	87.4	82.7	82.7	81.5
75°	192.6	172.5	146.5	125.2	108.7	95.7	85.1	78.0	73.2	73.2	73.2
77.5°	174.8	155.9	131.1	112.2	96.9	86.2	75.6	69.7	66.2	66.2	65.0
80°	158.3	140.6	117.0	100.4	86.2	76.8	67.3	62.6	59.1	59.1	59.1
82.5°	141.8	125.2	104.0	88.6	76.8	67.3	60.3	55.5	53.2	52.0	53.2
85°	126.4	111.1	92.1	78.0	67.3	59.1	53.2	48.4	46.1	46.1	46.1
87.5°	112.2	98.1	81.5	68.5	59.1	52.0	46.1	42.5	41.3	40.2	40.2
90°	96.9	83.9	69.7	59.1	50.8	44.9	39.0	36.6	34.3	34.3	34.3
92.5°	86.2	75.6	62.6	53.2	46.1	41.3	36.6	34.3	31.9	31.9	31.9
95°	75.6	66.2	55.5	48.4	42.5	37.8	34.3	31.9	30.7	30.7	30.7
97.5°	65.0	57.9	49.6	43.7	39.0	35.4	31.9	29.5	28.4	28.4	28.4
100°	54.3	49.6	43.7	39.0	35.4	31.9	28.4	27.2	26.0	26.0	26.0
102.5°	44.9	41.3	36.6	33.1	29.5	27.2	24.8	23.6	22.4	22.4	22.4
105°	39.0	36.6	33.1	29.5	27.2	24.8	22.4	20.1	20.1	20.1	20.1
107.5°	36.6	33.1	30.7	28.4	26.0	22.4	21.3	18.9	17.7	17.7	17.7
110°	35.4	33.1	30.7	27.2	24.8	22.4	20.1	17.7	16.5	16.5	16.5

REPORT NUMBER: P691053

CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	35.4	33.1	30.7	28.4	26.0	22.4	21.3	16.5	15.4	15.4	15.4
115°	37.8	35.4	31.9	29.5	26.0	23.6	21.3	16.5	15.4	15.4	15.4
117.5°	40.2	37.8	34.3	31.9	28.4	24.8	21.3	16.5	15.4	15.4	15.4
120°	46.1	42.5	37.8	34.3	30.7	26.0	22.4	16.5	14.2	15.4	15.4
122.5°	52.0	48.4	42.5	37.8	33.1	28.4	22.4	16.5	14.2	15.4	15.4
125°	61.4	55.5	48.4	42.5	35.4	29.5	23.6	16.5	13.0	14.2	15.4
127.5°	72.1	65.0	55.5	47.3	39.0	30.7	23.6	16.5	13.0	14.2	14.2
130°	83.9	74.4	62.6	50.8	41.3	31.9	23.6	16.5	13.0	14.2	14.2
132.5°	95.7	82.7	68.5	55.5	43.7	33.1	23.6	15.4	13.0	13.0	13.0
135°	105.1	89.8	73.2	57.9	44.9	33.1	22.4	15.4	11.8	11.8	11.8
137.5°	113.4	95.7	76.8	59.1	44.9	31.9	21.3	14.2	10.6	10.6	10.6
140°	118.1	98.1	78.0	57.9	42.5	30.7	20.1	13.0	9.5	9.5	9.5
142.5°	118.1	96.9	75.6	56.7	40.2	28.4	17.7	10.6	8.3	8.3	8.3
145°	113.4	92.1	72.1	53.2	36.6	24.8	15.4	9.5	7.1	7.1	7.1
147.5°	106.3	85.1	66.2	48.4	33.1	21.3	13.0	8.3	5.9	5.9	5.9
150°	94.5	75.6	57.9	41.3	28.4	17.7	10.6	7.1	4.7	4.7	4.7
152.5°	79.2	62.6	48.4	34.3	23.6	14.2	9.5	4.7	3.5	3.5	3.5
155°	62.6	49.6	37.8	27.2	17.7	10.6	7.1	4.7	2.4	2.4	2.4
157.5°	47.3	36.6	28.4	20.1	13.0	8.3	4.7	3.5	2.4	2.4	2.4
160°	33.1	26.0	18.9	13.0	8.3	5.9	3.5	2.4	1.2	1.2	1.2
162.5°	21.3	16.5	11.8	8.3	4.7	3.5	2.4	1.2	1.2	1.2	0.0
165°	10.6	8.3	5.9	3.5	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)