

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: P691138

Luminaire Tested: **CRTK2-C013-D-U-T3-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691138
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-D-U-T3-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2446 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B1 - U3 - G1

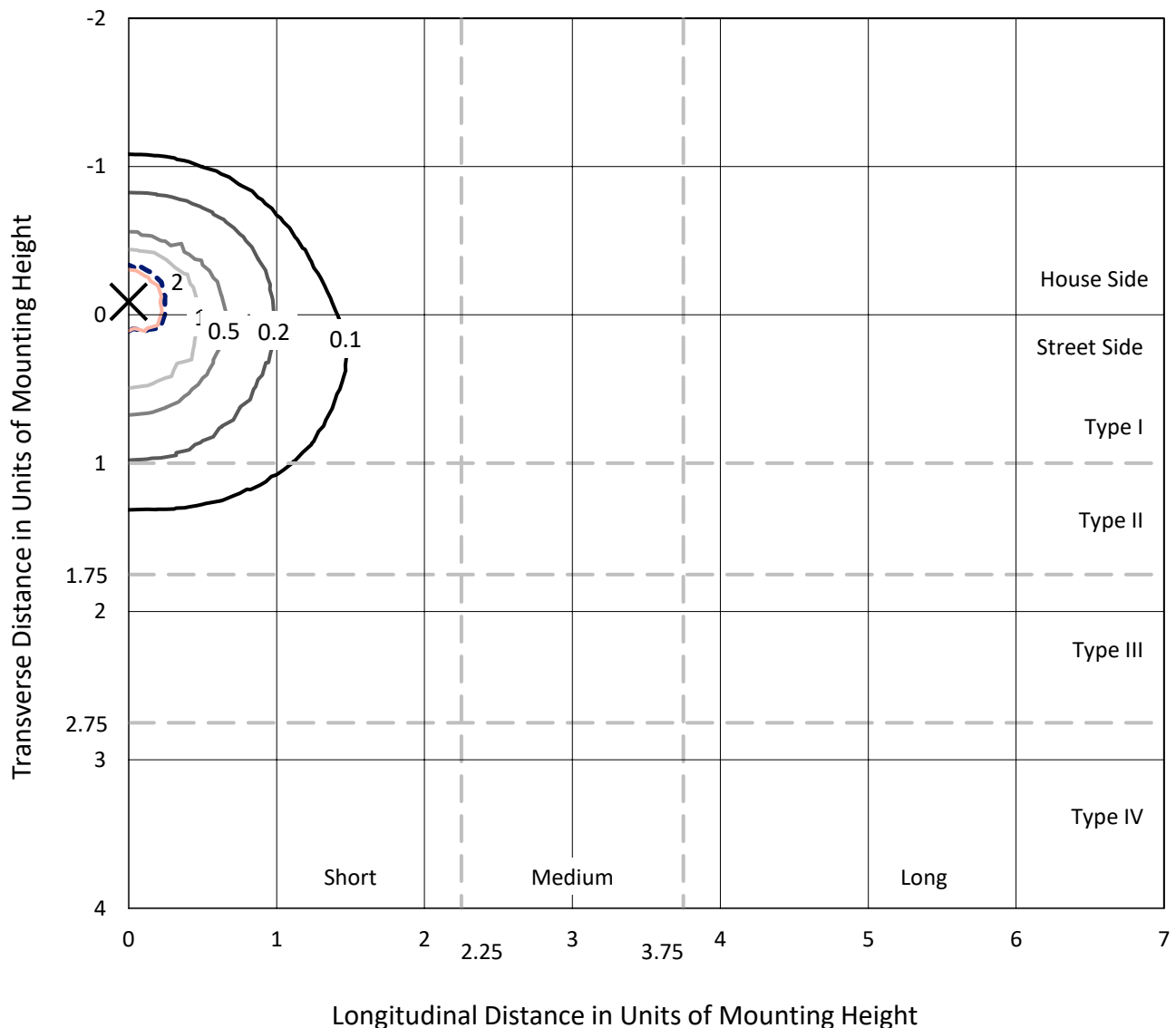
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P691138
 CATALOG NUMBER: CRTK2-C013-D-U-T3-7030-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

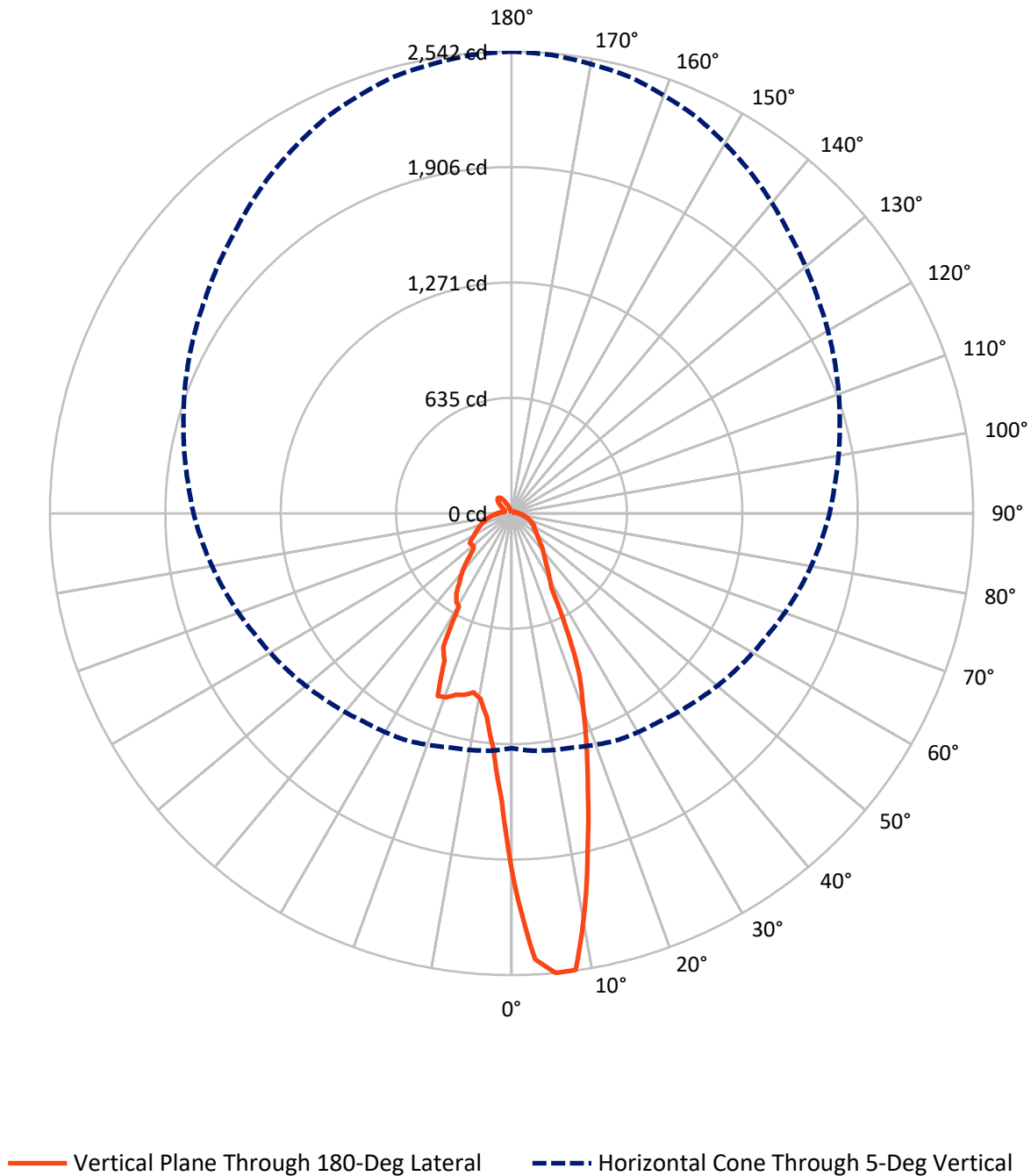
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type I - Short - N/A

REPORT NUMBER: P691138
CATALOG NUMBER: CRTK2-C013-D-U-T3-7030-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P691138

CATALOG NUMBER: CRTK2-C013-D-U-T3-7030-RMARROA5

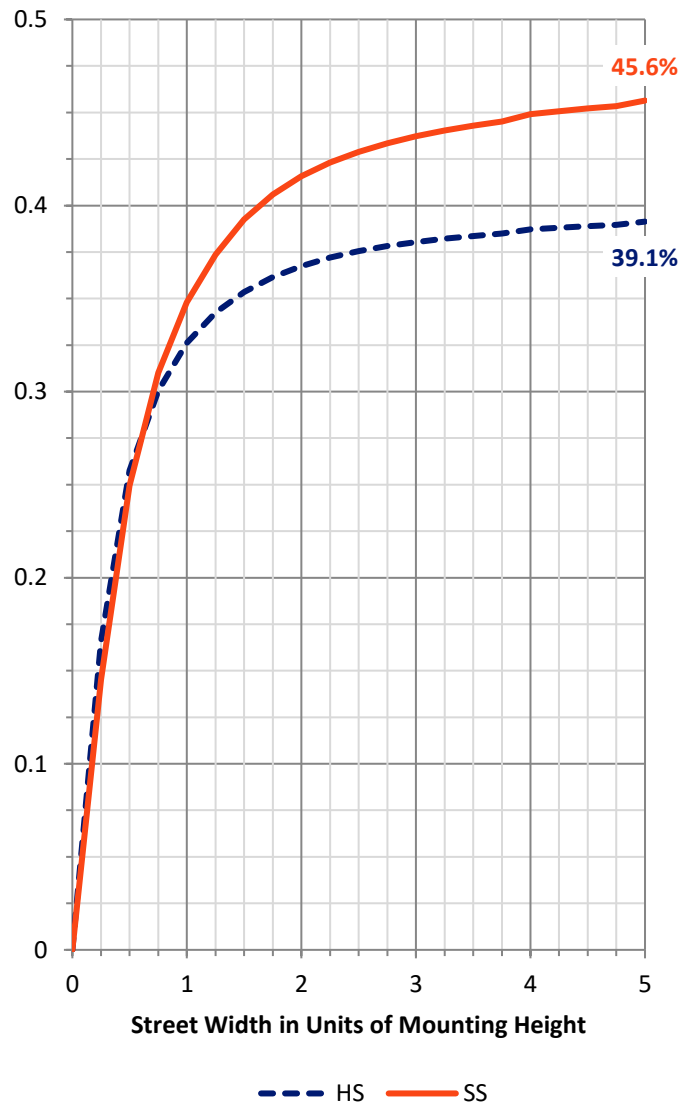
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	983.1	105.4	1088.5
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	1147.3	210.2	1357.5
	% Fixture	46.9	8.6	55.5
Total	Lumens	2130.3	315.7	2446.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	6.7
10°-20°	352.6	14.4
20°-30°	388.3	15.9
30°-40°	285.3	11.7
40°-50°	239.0	9.8
50°-60°	239.8	9.8
60°-70°	205.4	8.4
70°-80°	153.0	6.3
80°-90°	102.4	4.2
90°-100°	60.8	2.5
100°-110°	35.3	1.4
110°-120°	32.8	1.3
120°-130°	47.6	1.9
130°-140°	64.1	2.6
140°-150°	51.9	2.1
150°-160°	20.5	0.8
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-90°	2130.3	87.1
0°-180°	2446.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691138

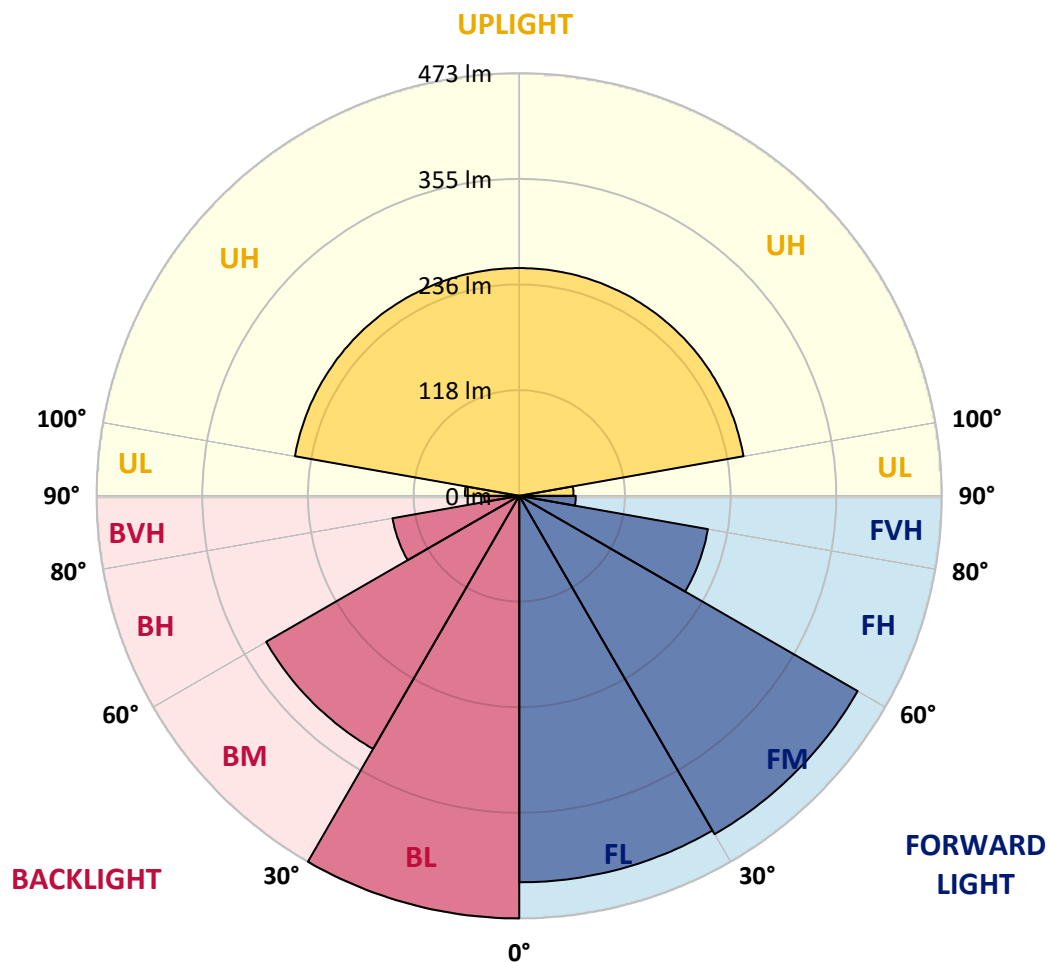
CATALOG NUMBER: CRTK2-C013-D-U-T3-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	432.5	17.7			
FM	(30°-60°)	437.2	17.9			
FH	(60°-80°)	214.4	8.8			G0/660
FVH	(80°-90°)	63.2	2.6			G1/100
BL	(0°-30°)	472.8	19.3	B1/500		
BM	(30°-60°)	327.0	13.4	B1/1000		
BH	(60°-80°)	144.1	5.9	B1/500		G1/500
BVH	(80°-90°)	39.2	1.6			G1/100
UL	(90°-100°)	60.8	2.5		U3/500	
UH	(100°-180°)	254.8	10.4		U3/500	

BUG Rating: B1-U3-G1

Type I Short





REPORT NUMBER: P691138

CATALOG NUMBER: CRTK2-C013-D-U-T3-7030-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5
2.5°	1577.4	1600.7	1612.4	1647.4	1659.0	1681.4	1715.3	1749.3	1806.7	1849.4	1882.4
5°	1292.8	1312.2	1333.6	1378.3	1404.5	1451.1	1505.5	1563.8	1637.6	1712.4	1751.3
7.5°	1126.7	1131.6	1162.7	1217.1	1264.7	1314.2	1373.4	1424.0	1474.5	1535.7	1574.5
10°	1035.4	1042.2	1062.6	1104.4	1145.2	1186.0	1232.6	1271.5	1322.9	1374.4	1397.7
12.5°	1008.2	1011.1	1028.6	1052.9	1079.1	1105.4	1141.3	1176.3	1221.9	1266.6	1282.1
15°	1032.5	1032.5	1035.4	1045.1	1058.7	1079.1	1106.3	1136.4	1178.2	1211.2	1227.7
17.5°	1044.2	1045.1	1052.9	1054.9	1067.5	1076.2	1100.5	1123.8	1163.6	1190.8	1199.6
20°	1075.2	1075.2	1076.2	1081.1	1083.0	1087.9	1098.6	1111.2	1144.2	1158.8	1156.8
22.5°	1085.0	1081.1	1096.6	1124.8	1123.8	1124.8	1115.1	1118.0	1136.4	1130.6	1117.0
25°	890.7	885.8	903.3	920.8	946.1	978.1	1057.8	1119.9	1143.2	1124.8	1094.7
27.5°	828.5	807.2	802.3	760.5	722.7	660.5	654.7	615.8	611.9	636.2	658.6
30°	588.6	589.6	588.6	584.7	581.8	584.7	587.6	580.8	582.8	598.3	591.5
32.5°	574.0	574.0	570.2	568.2	559.5	556.6	551.7	539.1	541.0	552.7	549.8
35°	535.2	533.3	534.2	529.4	513.8	501.2	499.3	488.6	488.6	495.4	492.5
37.5°	476.9	474.0	485.7	484.7	472.1	467.2	462.3	455.5	455.5	461.4	455.5
40°	431.3	429.3	441.9	445.8	438.1	440.0	441.0	435.2	441.0	441.9	434.2
42.5°	382.7	381.7	392.4	391.4	384.6	383.7	382.7	378.8	388.5	396.3	390.5
45°	325.4	322.5	330.2	333.2	331.2	328.3	327.3	327.3	333.2	337.0	331.2
47.5°	287.5	288.5	294.3	301.1	303.1	305.0	304.0	302.1	306.0	306.9	302.1
50°	274.9	275.9	284.6	292.4	298.2	302.1	302.1	299.2	302.1	299.2	292.4
52.5°	280.7	280.7	292.4	304.0	313.7	320.5	321.5	317.6	317.6	309.9	299.2
55°	282.7	284.6	300.1	319.6	337.0	355.5	364.2	361.3	364.2	347.7	330.2
57.5°	264.2	269.1	284.6	307.9	331.2	360.4	378.8	380.8	379.8	365.2	343.8
60°	239.9	243.8	254.5	274.9	297.2	320.5	339.0	342.9	346.8	340.0	320.5
62.5°	223.4	225.3	234.1	248.7	264.2	276.8	283.6	282.7	286.5	284.6	270.0
65°	208.8	209.8	219.5	231.2	240.9	253.5	255.5	255.5	258.4	254.5	242.8
67.5°	193.3	193.3	201.1	211.7	223.4	234.1	237.0	238.0	241.9	238.0	229.2
70°	179.7	179.7	186.5	195.2	204.0	214.7	217.6	218.5	223.4	218.5	209.8
72.5°	167.1	167.1	172.9	180.7	188.4	197.2	200.1	201.1	204.9	200.1	193.3
75°	153.5	154.4	159.3	166.1	172.9	180.7	184.6	184.6	187.5	181.6	175.8
77.5°	139.9	140.8	145.7	151.5	157.4	165.1	167.1	168.0	171.0	165.1	159.3
80°	126.3	128.2	132.1	137.0	142.8	148.6	152.5	152.5	154.4	148.6	144.7
82.5°	113.6	115.6	118.5	122.4	128.2	134.0	137.9	137.9	138.9	134.0	129.2
85°	101.0	103.0	105.9	108.8	113.6	119.5	123.4	123.4	124.3	119.5	115.6
87.5°	89.4	91.3	93.2	96.2	100.0	105.9	109.8	109.8	109.8	105.9	102.0
90°	77.7	78.7	80.6	83.5	87.4	92.3	95.2	96.2	96.2	91.3	89.4
92.5°	69.0	69.0	70.9	72.8	76.7	80.6	83.5	84.5	84.5	81.6	78.7
95°	59.3	60.2	61.2	63.1	66.0	69.0	72.8	72.8	72.8	70.9	69.0
97.5°	52.5	51.5	52.5	53.4	56.3	58.3	61.2	62.2	62.2	60.2	59.3
100°	44.7	45.7	45.7	46.6	47.6	48.6	50.5	51.5	51.5	50.5	50.5
102.5°	41.8	40.8	40.8	40.8	40.8	40.8	41.8	41.8	42.7	41.8	40.8
105°	38.9	38.9	38.9	38.9	37.9	37.9	37.9	37.9	36.9	35.9	35.9
107.5°	37.9	37.9	37.9	37.9	36.9	36.9	35.9	35.9	35.0	34.0	33.0
110°	37.9	37.9	37.9	37.9	36.9	35.9	35.9	35.0	34.0	33.0	32.1



REPORT NUMBER: P691138

CATALOG NUMBER: CRTK2-C013-D-U-T3-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	39.8	39.8	39.8	39.8	37.9	36.9	35.9	35.9	34.0	33.0	32.1
115°	43.7	43.7	42.7	42.7	41.8	39.8	38.9	37.9	36.9	35.0	34.0
117.5°	47.6	47.6	47.6	47.6	46.6	44.7	42.7	41.8	40.8	37.9	36.9
120°	54.4	54.4	54.4	55.4	53.4	51.5	49.5	47.6	46.6	43.7	41.8
122.5°	63.1	62.2	64.1	65.1	64.1	61.2	58.3	56.3	54.4	50.5	48.6
125°	71.9	71.9	73.8	76.7	76.7	73.8	69.9	67.0	65.1	59.3	56.3
127.5°	82.6	82.6	85.5	90.3	91.3	88.4	84.5	80.6	77.7	69.9	67.0
130°	92.3	92.3	98.1	103.9	106.8	103.9	100.0	95.2	91.3	82.6	77.7
132.5°	100.0	101.0	107.8	115.6	119.5	118.5	113.6	109.8	105.9	95.2	89.4
135°	107.8	108.8	116.6	126.3	131.1	131.1	127.2	122.4	117.5	105.9	99.1
137.5°	111.7	112.7	122.4	132.1	137.9	139.9	137.9	133.1	128.2	115.6	106.8
140°	111.7	113.6	123.4	133.1	138.9	141.8	141.8	137.0	132.1	120.4	111.7
142.5°	108.8	110.7	119.5	129.2	135.0	138.9	139.9	136.0	131.1	119.5	110.7
145°	103.0	103.9	112.7	121.4	127.2	132.1	134.0	131.1	125.3	115.6	106.8
147.5°	93.2	93.2	101.0	107.8	115.6	120.4	123.4	121.4	116.6	107.8	100.0
150°	79.6	79.6	85.5	92.3	99.1	104.9	107.8	107.8	103.0	96.2	88.4
152.5°	63.1	64.1	68.0	73.8	80.6	85.5	89.4	89.4	86.4	80.6	73.8
155°	48.6	48.6	51.5	55.4	61.2	66.0	69.0	69.0	67.0	62.2	58.3
157.5°	35.0	35.0	36.9	40.8	44.7	48.6	51.5	51.5	49.5	46.6	43.7
160°	23.3	23.3	24.3	27.2	30.1	33.0	35.0	35.9	35.0	33.0	30.1
162.5°	12.6	12.6	13.6	15.5	17.5	20.4	21.4	22.3	22.3	20.4	19.4
165°	3.9	3.9	3.9	5.8	6.8	8.7	9.7	10.7	10.7	10.7	9.7
167.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	2.9	2.9	2.9
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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: P691138

CATALOG NUMBER: CRTK2-C013-D-U-T3-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5
2.5°	1913.5	1985.4	2065.0	2146.6	2230.1	2308.8	2374.9	2427.3	2455.5	2462.3	2458.4
5°	1786.3	1870.8	1964.0	2059.2	2168.0	2293.3	2407.9	2490.5	2533.2	2540.0	2541.9
7.5°	1604.6	1678.4	1769.7	1879.5	2016.5	2150.5	2327.3	2450.6	2519.6	2538.1	2538.1
10°	1413.3	1478.3	1535.7	1631.8	1751.3	1876.6	2027.1	2140.8	2210.7	2233.1	2213.6
12.5°	1305.5	1333.6	1372.5	1443.4	1518.2	1613.4	1743.5	1817.3	1863.0	1876.6	1864.9
15°	1236.5	1251.1	1267.6	1297.7	1350.1	1409.4	1486.1	1531.8	1559.9	1576.4	1570.6
17.5°	1203.5	1203.5	1200.5	1207.3	1220.9	1248.1	1300.6	1317.1	1329.7	1336.5	1332.6
20°	1153.0	1137.4	1124.8	1105.4	1097.6	1096.6	1109.2	1126.7	1125.8	1126.7	1119.0
22.5°	1102.4	1070.4	1039.3	1010.2	977.1	960.6	949.0	954.8	949.9	954.8	949.9
25°	1078.2	1013.1	950.9	880.0	820.8	775.1	745.0	726.5	695.5	707.1	696.4
27.5°	669.2	642.0	615.8	563.4	513.8	496.3	481.8	474.0	468.2	471.1	469.1
30°	579.9	557.5	537.1	509.9	472.1	448.7	431.3	415.7	410.9	411.8	410.9
32.5°	538.1	520.6	495.4	467.2	433.2	404.1	383.7	369.1	361.3	366.2	362.3
35°	481.8	464.3	442.9	416.7	387.6	361.3	341.9	328.3	319.6	321.5	320.5
37.5°	444.9	428.4	409.9	381.7	356.5	331.2	311.8	298.2	289.5	291.4	289.5
40°	423.5	405.0	385.6	360.4	335.1	308.9	290.4	274.9	266.1	266.1	266.1
42.5°	379.8	365.2	348.7	322.5	300.1	277.8	259.3	247.7	238.0	238.9	237.0
45°	324.4	313.7	301.1	283.6	265.2	247.7	232.1	223.4	215.6	216.6	215.6
47.5°	296.3	286.5	272.0	258.4	241.9	226.3	212.7	202.0	196.2	197.2	195.2
50°	285.6	273.9	257.4	238.9	223.4	207.9	194.3	186.5	180.7	181.6	180.7
52.5°	289.5	271.0	247.7	225.3	206.9	191.3	180.7	171.9	168.0	169.0	167.1
55°	314.7	282.7	247.7	219.5	196.2	178.7	168.0	158.3	154.4	154.4	154.4
57.5°	323.4	288.5	244.8	212.7	187.5	170.0	157.4	147.6	143.8	143.8	143.8
60°	303.1	272.9	233.1	203.0	179.7	163.2	152.5	145.7	142.8	142.8	142.8
62.5°	259.3	239.9	209.8	185.5	168.0	153.5	142.8	134.0	131.1	130.2	130.2
65°	235.1	216.6	191.3	171.0	155.4	143.8	134.0	127.2	123.4	123.4	123.4
67.5°	219.5	202.0	178.7	159.3	144.7	132.1	123.4	116.6	114.6	113.6	113.6
70°	202.0	185.5	162.2	144.7	131.1	120.4	111.7	105.9	103.9	103.9	103.0
72.5°	184.6	169.0	146.7	130.2	117.5	107.8	100.0	95.2	93.2	92.3	92.3
75°	168.0	152.5	132.1	116.6	104.9	96.2	89.4	84.5	82.6	82.6	82.6
77.5°	152.5	137.9	118.5	103.9	94.2	85.5	79.6	75.8	73.8	73.8	73.8
80°	137.9	123.4	105.9	92.3	82.6	75.8	70.9	67.0	65.1	66.0	65.1
82.5°	122.4	110.7	94.2	81.6	73.8	67.0	62.2	59.3	57.3	58.3	57.3
85°	109.8	98.1	82.6	71.9	64.1	58.3	54.4	51.5	49.5	50.5	49.5
87.5°	97.1	86.4	72.8	63.1	56.3	51.5	46.6	44.7	43.7	43.7	42.7
90°	83.5	73.8	62.2	54.4	47.6	43.7	39.8	37.9	36.9	35.9	35.9
92.5°	73.8	66.0	55.4	48.6	42.7	39.8	35.9	34.0	33.0	33.0	33.0
95°	65.1	58.3	49.5	43.7	39.8	35.9	33.0	32.1	31.1	31.1	30.1
97.5°	56.3	50.5	44.7	39.8	35.9	33.0	30.1	29.1	28.2	28.2	28.2
100°	47.6	43.7	38.9	35.0	32.1	30.1	27.2	26.2	25.3	25.3	25.3
102.5°	39.8	36.9	33.0	30.1	28.2	26.2	24.3	23.3	22.3	22.3	22.3
105°	35.0	32.1	30.1	27.2	25.3	23.3	22.3	20.4	19.4	19.4	19.4
107.5°	32.1	30.1	28.2	26.2	24.3	22.3	20.4	18.5	17.5	17.5	17.5
110°	31.1	29.1	27.2	25.3	23.3	21.4	20.4	17.5	16.5	16.5	16.5



REPORT NUMBER: P691138

CATALOG NUMBER: CRTK2-C013-D-U-T3-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	31.1	30.1	28.2	26.2	24.3	22.3	20.4	16.5	15.5	15.5	15.5
115°	33.0	31.1	29.1	27.2	25.3	23.3	21.4	16.5	15.5	15.5	15.5
117.5°	35.9	34.0	31.1	29.1	27.2	24.3	21.4	17.5	15.5	15.5	15.5
120°	40.8	37.9	35.0	32.1	29.1	26.2	22.3	17.5	14.6	15.5	15.5
122.5°	46.6	43.7	38.9	35.0	32.1	28.2	23.3	18.5	14.6	15.5	15.5
125°	54.4	50.5	44.7	39.8	35.0	30.1	24.3	18.5	14.6	15.5	16.5
127.5°	63.1	57.3	50.5	43.7	37.9	32.1	26.2	19.4	14.6	16.5	16.5
130°	72.8	66.0	57.3	48.6	41.8	34.0	27.2	19.4	15.5	15.5	15.5
132.5°	83.5	73.8	62.2	52.5	43.7	35.0	27.2	19.4	15.5	15.5	15.5
135°	91.3	79.6	67.0	55.4	45.7	35.9	28.2	19.4	14.6	14.6	14.6
137.5°	98.1	84.5	70.9	57.3	46.6	35.9	27.2	18.5	14.6	13.6	13.6
140°	102.0	86.4	70.9	57.3	45.7	35.0	25.3	17.5	12.6	12.6	12.6
142.5°	102.0	85.5	69.9	55.4	42.7	33.0	24.3	15.5	11.7	11.7	11.7
145°	98.1	81.6	66.0	52.5	39.8	30.1	21.4	14.6	10.7	10.7	10.7
147.5°	91.3	74.8	60.2	47.6	35.0	26.2	18.5	11.7	8.7	8.7	8.7
150°	81.6	66.0	52.5	40.8	30.1	21.4	15.5	9.7	6.8	6.8	6.8
152.5°	68.0	55.4	42.7	34.0	24.3	17.5	11.7	7.8	5.8	5.8	5.8
155°	53.4	43.7	34.0	26.2	18.5	12.6	8.7	5.8	3.9	3.9	3.9
157.5°	40.8	33.0	25.3	19.4	13.6	9.7	6.8	3.9	2.9	2.9	2.9
160°	28.2	22.3	17.5	13.6	8.7	6.8	4.9	2.9	1.9	1.9	1.9
162.5°	18.5	14.6	10.7	7.8	5.8	3.9	2.9	1.9	1.0	1.0	1.0
165°	8.7	6.8	5.8	3.9	2.9	1.9	1.0	1.0	0.0	0.0	0.0
167.5°	2.9	1.9	1.9	1.0	1.0	1.0	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)