

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: P691106

Luminaire Tested: **CRTK2-C013-D-U-T2-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-D-U-T2-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2422 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B1 - U3 - G1

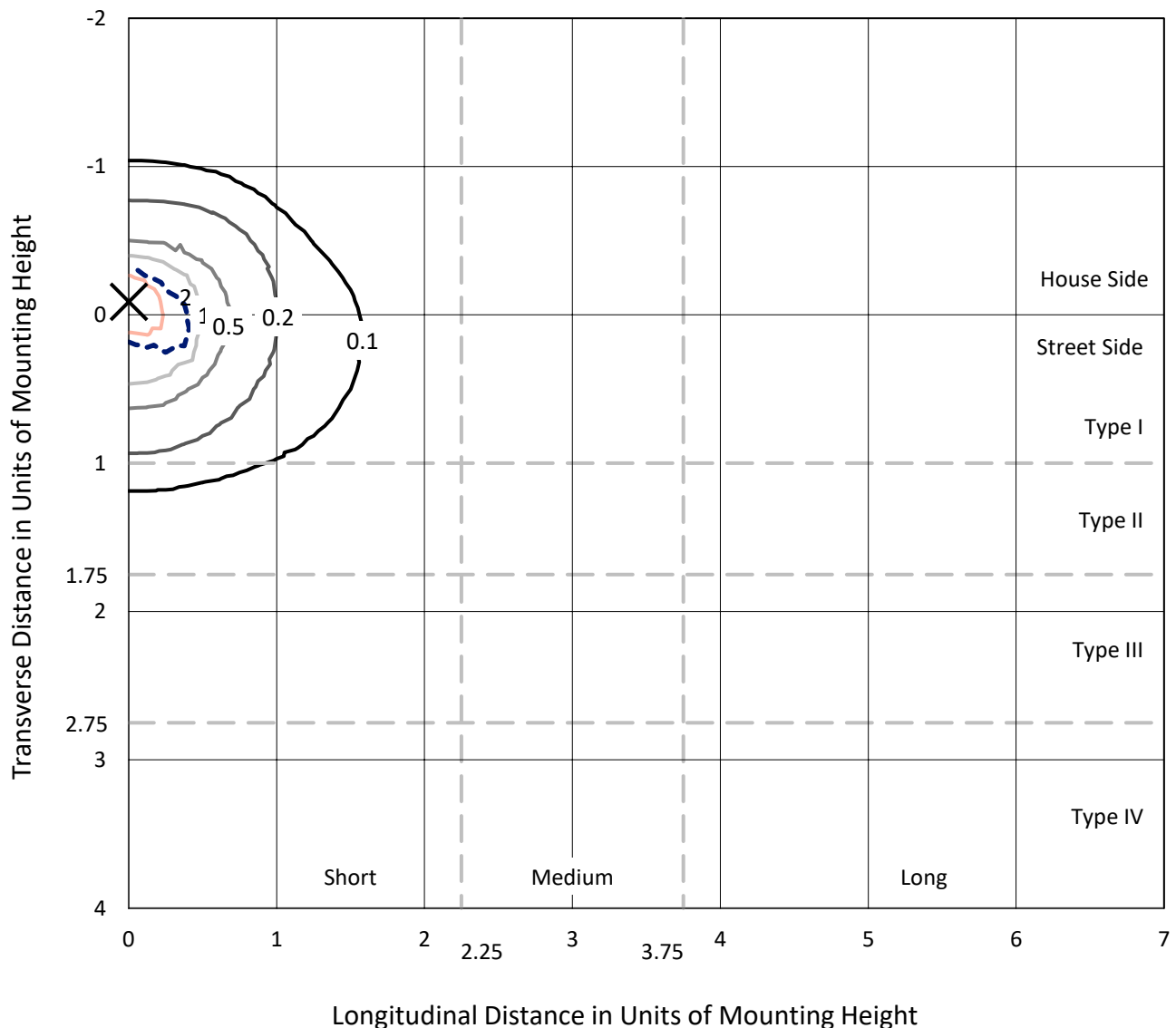
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P691106
 CATALOG NUMBER: CRTK2-C013-D-U-T2-7030-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

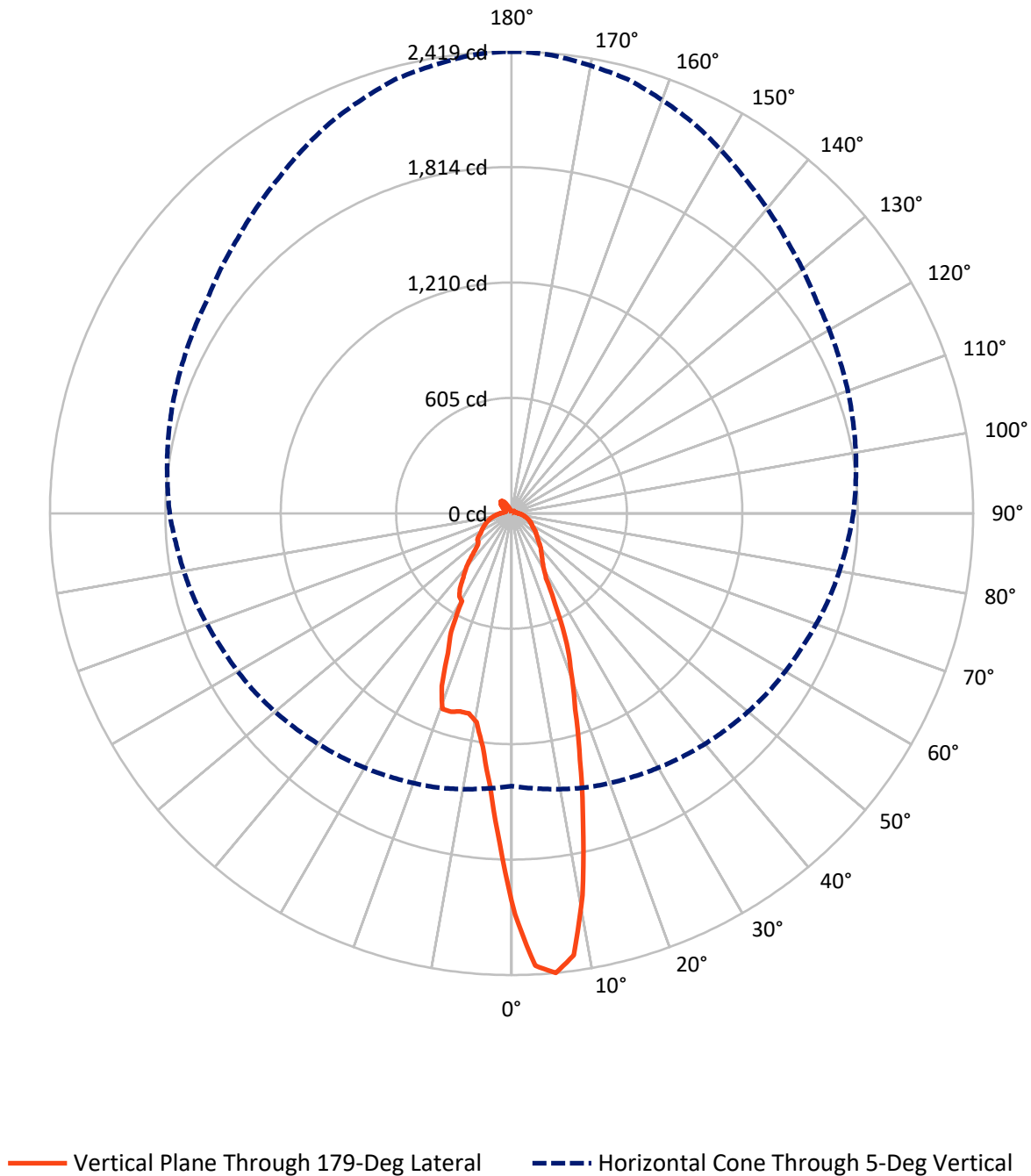
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type I - Short - N/A

REPORT NUMBER: P691106
CATALOG NUMBER: CRTK2-C013-D-U-T2-7030-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P691106

CATALOG NUMBER: CRTK2-C013-D-U-T2-7030-RMARROA5

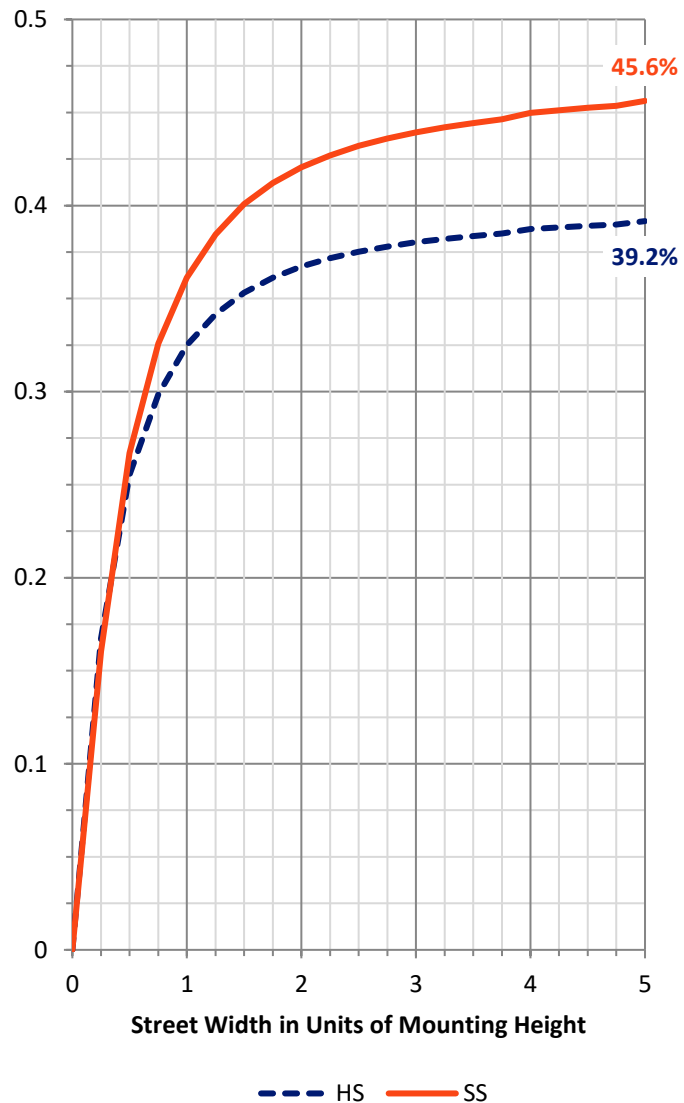
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	974.6	118.5	1093.1
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	1131.2	197.6	1328.8
	% Fixture	46.7	8.2	54.9
Total	Lumens	2105.9	316.1	2422.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	6.8
10°-20°	350.6	14.5
20°-30°	380.8	15.7
30°-40°	281.9	11.6
40°-50°	236.1	9.7
50°-60°	237.3	9.8
60°-70°	202.1	8.3
70°-80°	150.9	6.2
80°-90°	101.9	4.2
90°-100°	60.9	2.5
100°-110°	35.2	1.5
110°-120°	32.4	1.3
120°-130°	46.8	1.9
130°-140°	64.1	2.6
140°-150°	52.8	2.2
150°-160°	21.3	0.9
160°-170°	2.6	0.1
170°-180°	0.0	0.0
0°-90°	2105.9	86.9
0°-180°	2422.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691106

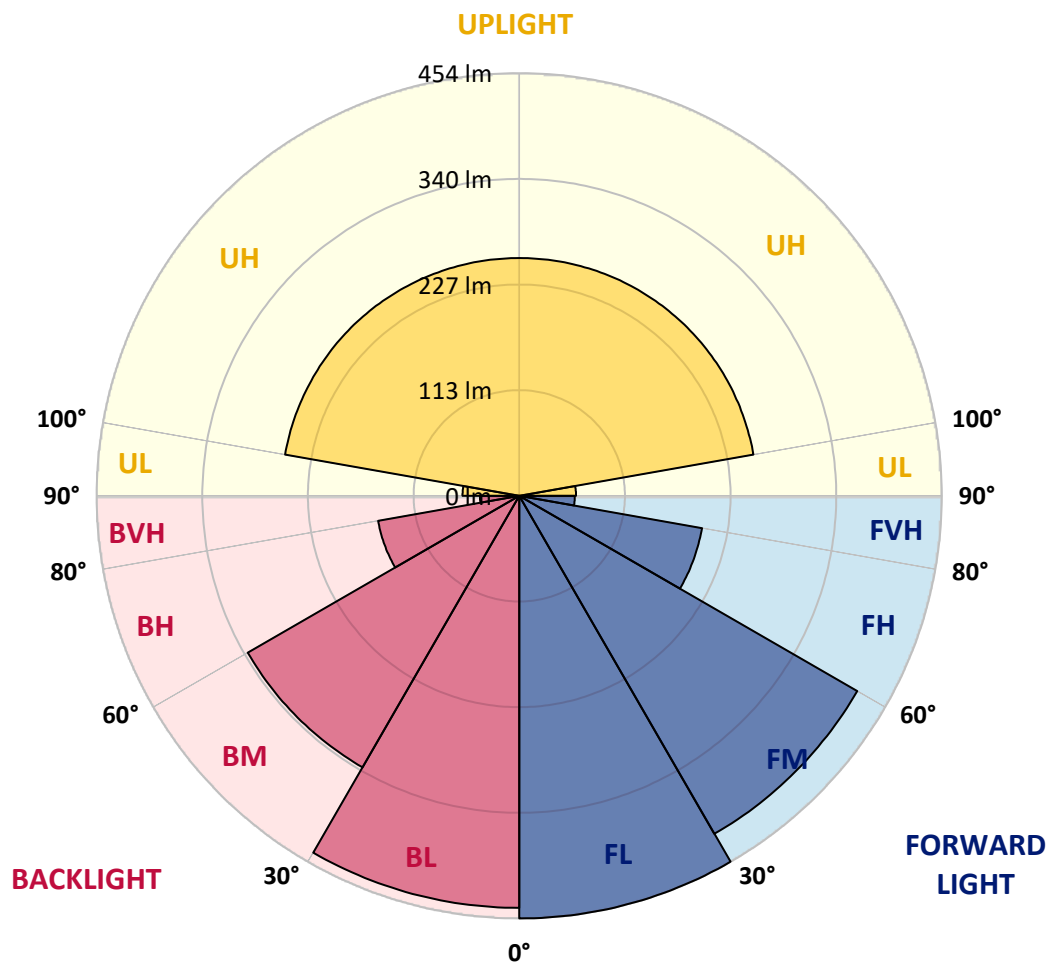
CATALOG NUMBER: CRTK2-C013-D-U-T2-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.5	18.7			
FM	(30°-60°)	418.8	17.3			
FH	(60°-80°)	199.2	8.2			G0/660
FVH	(80°-90°)	59.7	2.5			G1/100
BL	(0°-30°)	442.2	18.3	B1/500		
BM	(30°-60°)	336.4	13.9	B1/1000		
BH	(60°-80°)	153.8	6.3	B1/500		G1/500
BVH	(80°-90°)	42.2	1.7			G1/100
UL	(90°-100°)	60.9	2.5		U3/500	
UH	(100°-180°)	255.2	10.5		U3/500	

BUG Rating: B1-U3-G1

Type I Short



REPORT NUMBER: P691106

CATALOG NUMBER: CRTK2-C013-D-U-T2-7030-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	1732.6	1742.4	1763.7	1774.4	1785.1	1798.7	1819.1	1834.6	1870.6	1903.6	1917.2
5°	1429.6	1447.1	1487.9	1520.9	1557.8	1596.7	1638.4	1675.3	1722.9	1766.6	1791.9
7.5°	1228.6	1243.1	1291.7	1355.8	1420.9	1475.3	1518.0	1546.2	1567.5	1585.0	1603.5
10°	1106.2	1118.8	1167.4	1224.7	1280.1	1330.6	1366.5	1393.7	1401.5	1418.9	1427.7
12.5°	1071.2	1077.1	1111.1	1150.9	1184.9	1234.4	1277.1	1306.3	1318.9	1334.4	1339.3
15°	1072.2	1072.2	1091.6	1116.9	1148.0	1185.8	1233.4	1268.4	1286.9	1295.6	1294.6
17.5°	1086.8	1085.8	1094.6	1114.9	1141.2	1179.0	1227.6	1263.5	1284.9	1287.8	1284.9
20°	1086.8	1087.8	1090.7	1114.0	1139.2	1173.2	1222.8	1252.9	1269.4	1260.6	1250.9
22.5°	976.1	975.1	1000.3	1049.9	1117.9	1188.8	1233.4	1270.3	1274.2	1242.2	1216.0
25°	806.1	799.3	813.9	836.2	881.9	964.4	1057.6	1197.5	1281.0	1262.6	1222.8
27.5°	699.3	690.5	703.2	693.4	688.6	682.8	676.9	660.4	671.1	680.8	723.6
30°	527.4	529.3	532.2	538.1	549.7	573.0	597.3	611.9	624.5	649.7	646.8
32.5°	515.7	514.7	515.7	521.5	527.4	541.9	556.5	564.3	574.0	598.3	592.4
35°	476.9	474.9	481.7	484.6	483.7	487.5	502.1	510.9	519.6	535.1	529.3
37.5°	419.6	421.5	436.1	443.8	446.8	455.5	467.2	474.9	485.6	497.3	494.3
40°	376.8	375.9	391.4	402.1	408.9	422.5	440.0	451.6	469.1	478.8	472.0
42.5°	324.4	328.3	339.9	350.6	352.5	359.3	374.9	388.5	409.9	424.4	420.5
45°	272.9	275.8	285.5	294.3	301.1	309.8	321.5	333.1	350.6	362.3	361.3
47.5°	240.9	243.8	251.5	262.2	271.9	284.6	296.2	307.9	324.4	333.1	330.2
50°	228.2	230.2	238.9	250.6	265.1	280.7	296.2	308.8	324.4	330.2	325.4
52.5°	227.3	227.3	237.9	255.4	275.8	297.2	317.6	335.1	349.6	349.6	339.9
55°	213.7	215.6	229.2	252.5	283.6	318.6	354.5	387.5	406.9	403.1	384.6
57.5°	194.2	195.2	209.8	232.1	265.1	307.9	356.4	398.2	421.5	426.4	406.9
60°	182.6	183.6	193.3	214.6	242.8	276.8	321.5	354.5	377.8	392.4	376.8
62.5°	172.9	172.9	182.6	197.2	220.5	245.7	271.0	293.3	311.8	322.4	313.7
65°	162.2	162.2	169.0	182.6	201.0	225.3	244.7	261.3	277.8	285.5	277.8
67.5°	151.5	151.5	158.3	170.9	187.4	207.8	227.3	242.8	259.3	265.1	259.3
70°	140.8	140.8	147.6	158.3	173.8	193.3	207.8	224.3	239.9	243.8	238.9
72.5°	130.1	130.1	136.9	146.7	160.2	178.7	192.3	204.9	219.5	222.4	217.6
75°	120.4	120.4	125.3	135.0	147.6	164.1	177.7	189.4	201.0	201.0	197.2
77.5°	109.7	110.7	114.6	123.3	135.0	150.5	163.2	173.8	183.6	183.6	178.7
80°	99.1	100.0	103.9	111.7	122.4	136.9	148.6	158.3	167.0	167.0	162.2
82.5°	88.4	89.4	93.2	100.0	109.7	123.3	135.0	144.7	152.5	151.5	146.7
85°	78.7	79.6	82.6	88.4	97.1	110.7	121.4	130.1	136.9	136.0	132.1
87.5°	69.0	69.9	72.8	77.7	85.5	98.1	108.8	116.5	122.4	121.4	117.5
90°	60.2	60.2	63.1	68.0	74.8	85.5	95.2	102.0	107.8	105.9	102.0
92.5°	52.4	53.4	55.4	59.2	65.1	74.8	83.5	89.4	95.2	94.2	90.3
95°	46.6	46.6	48.6	51.5	56.3	64.1	72.8	77.7	81.6	81.6	78.7
97.5°	40.8	41.8	42.7	44.7	48.6	54.4	61.2	66.0	69.0	69.0	67.0
100°	36.9	37.9	37.9	39.8	41.8	45.6	50.5	54.4	57.3	57.3	56.3
102.5°	35.0	35.0	35.0	35.9	36.9	38.8	41.8	43.7	45.6	46.6	45.6
105°	33.0	33.0	33.0	34.0	34.0	35.9	36.9	38.8	39.8	39.8	38.8
107.5°	32.0	32.0	33.0	33.0	33.0	34.0	35.9	35.9	36.9	35.9	35.9
110°	33.0	33.0	33.0	33.0	33.0	34.0	35.0	35.0	35.0	35.0	34.0



REPORT NUMBER: P691106

CATALOG NUMBER: CRTK2-C013-D-U-T2-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	34.0	34.0	34.0	34.0	35.0	35.0	35.0	35.9	35.9	35.0	35.0
115°	36.9	36.9	36.9	36.9	36.9	37.9	37.9	37.9	37.9	36.9	35.9
117.5°	39.8	39.8	39.8	40.8	40.8	41.8	40.8	41.8	40.8	39.8	39.8
120°	44.7	44.7	45.6	46.6	47.6	47.6	46.6	47.6	47.6	45.6	44.7
122.5°	50.5	50.5	51.5	54.4	55.4	56.3	55.4	55.4	55.4	53.4	52.4
125°	56.3	57.3	59.2	63.1	66.0	68.0	66.0	67.0	67.0	64.1	63.1
127.5°	63.1	64.1	68.0	73.8	78.7	80.6	79.6	80.6	81.6	76.7	74.8
130°	69.9	69.9	75.8	84.5	91.3	94.2	95.2	96.1	97.1	92.3	88.4
132.5°	75.8	75.8	83.5	94.2	102.9	107.8	109.7	111.7	113.6	106.8	102.0
135°	79.6	80.6	90.3	102.9	113.6	120.4	123.3	125.3	128.2	120.4	114.6
137.5°	82.6	84.5	94.2	107.8	119.5	129.2	135.0	137.9	139.9	132.1	124.3
140°	83.5	84.5	95.2	108.8	120.4	131.1	139.9	144.7	145.7	137.9	130.1
142.5°	80.6	82.6	92.3	105.9	117.5	129.2	138.9	143.7	144.7	137.9	130.1
145°	76.7	77.7	86.4	99.1	110.7	123.3	134.0	138.9	138.9	133.1	125.3
147.5°	69.9	70.9	78.7	89.4	101.0	113.6	124.3	129.2	130.1	124.3	117.5
150°	60.2	61.2	67.0	75.8	87.4	100.0	109.7	115.6	115.6	109.7	104.9
152.5°	48.6	49.5	54.4	61.2	70.9	82.6	91.3	97.1	97.1	93.2	87.4
155°	37.9	37.9	41.8	47.6	54.4	63.1	69.9	74.8	75.8	71.9	68.0
157.5°	27.2	27.2	30.1	35.0	40.8	47.6	52.4	56.3	56.3	53.4	51.5
160°	18.5	18.5	20.4	23.3	27.2	32.0	35.9	39.8	39.8	37.9	35.9
162.5°	9.7	9.7	11.7	13.6	16.5	20.4	22.3	25.3	25.3	24.3	23.3
165°	2.9	2.9	3.9	4.9	6.8	8.7	9.7	11.7	12.6	11.7	10.7
167.5°	0.0	0.0	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	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: P691106

CATALOG NUMBER: CRTK2-C013-D-U-T2-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	1931.7	1992.9	2048.3	2105.6	2176.5	2238.6	2305.7	2353.2	2373.6	2373.6	2381.4
5°	1810.3	1853.1	1897.7	1948.2	2032.7	2136.7	2256.1	2354.2	2410.5	2419.3	2418.3
7.5°	1609.3	1638.4	1684.1	1740.4	1818.1	1911.3	2064.8	2218.2	2320.2	2338.7	2331.9
10°	1432.5	1459.7	1486.9	1508.3	1563.6	1637.5	1750.1	1899.7	2017.2	2035.7	2021.1
12.5°	1342.2	1351.0	1350.0	1362.6	1384.9	1421.9	1479.2	1565.6	1646.2	1663.7	1651.1
15°	1294.6	1282.0	1262.6	1240.2	1238.3	1244.1	1258.7	1293.7	1327.6	1342.2	1332.5
17.5°	1275.2	1245.1	1205.3	1161.6	1132.4	1105.2	1086.8	1075.1	1080.0	1081.0	1073.2
20°	1229.6	1193.6	1129.5	1067.4	1020.7	973.2	932.4	902.3	897.4	892.5	886.7
22.5°	1178.1	1116.9	1040.2	964.4	895.5	832.3	786.7	750.7	737.1	742.0	739.1
25°	1167.4	1065.4	972.2	849.8	762.4	691.5	606.0	547.8	521.5	536.1	526.4
27.5°	700.2	703.2	650.7	576.9	513.8	472.0	434.1	403.1	385.6	385.6	387.5
30°	634.2	606.0	571.1	525.4	470.1	428.3	386.5	352.5	334.1	329.2	331.2
32.5°	579.8	560.4	527.4	483.7	433.2	390.4	346.7	315.6	298.2	297.2	296.2
35°	521.5	501.1	474.0	436.1	392.4	352.5	314.7	287.5	271.9	272.9	272.9
37.5°	481.7	463.3	439.0	403.1	363.2	323.4	289.4	264.2	251.5	251.5	250.6
40°	461.3	440.0	413.7	380.7	343.8	302.0	270.0	245.7	235.0	235.0	234.1
42.5°	416.6	398.2	380.7	346.7	309.8	275.8	245.7	224.3	213.7	213.7	213.7
45°	353.5	342.8	329.2	305.9	275.8	247.7	222.4	202.0	193.3	192.3	192.3
47.5°	326.3	314.7	298.2	276.8	252.5	226.3	202.0	187.4	178.7	178.7	178.7
50°	318.6	305.0	282.6	257.4	232.1	208.8	187.4	173.8	166.1	166.1	167.0
52.5°	329.2	306.9	276.8	245.7	219.5	193.3	174.8	161.2	155.4	155.4	154.4
55°	366.1	324.4	280.7	242.8	209.8	181.6	162.2	147.6	140.8	140.8	140.8
57.5°	386.5	337.0	283.6	238.9	201.0	172.9	152.5	136.9	130.1	130.1	130.1
60°	363.2	322.4	271.9	231.1	194.2	165.1	143.7	129.2	122.4	121.4	120.4
62.5°	304.0	278.7	242.8	208.8	179.7	154.4	136.9	122.4	115.6	115.6	114.6
65°	271.0	249.6	218.5	189.4	165.1	143.7	127.2	115.6	108.8	107.8	107.8
67.5°	252.5	233.1	202.0	174.8	152.5	133.1	117.5	106.8	102.0	100.0	100.0
70°	232.1	210.8	183.6	159.3	138.9	121.4	108.8	98.1	93.2	92.3	91.3
72.5°	211.7	192.3	167.0	143.7	125.3	110.7	99.1	89.4	84.5	83.5	83.5
75°	190.4	171.9	147.6	128.2	112.7	99.1	88.4	80.6	76.7	75.8	74.8
77.5°	172.9	156.4	133.1	114.6	100.0	89.4	79.6	72.8	69.0	69.0	68.0
80°	156.4	140.8	118.5	102.0	89.4	78.7	70.9	65.1	62.2	61.2	61.2
82.5°	140.8	125.3	104.9	90.3	78.7	69.9	62.2	57.3	54.4	54.4	54.4
85°	126.3	111.7	93.2	79.6	69.0	61.2	54.4	49.5	47.6	46.6	47.6
87.5°	111.7	98.1	82.6	69.9	60.2	52.4	46.6	42.7	40.8	40.8	40.8
90°	98.1	85.5	70.9	59.2	51.5	44.7	39.8	35.9	35.0	34.0	34.0
92.5°	86.4	75.8	63.1	53.4	45.6	40.8	35.9	33.0	31.1	31.1	31.1
95°	75.8	66.0	56.3	47.6	41.8	36.9	33.0	30.1	29.1	29.1	29.1
97.5°	65.1	57.3	49.5	42.7	37.9	34.0	30.1	28.2	27.2	26.2	27.2
100°	54.4	48.6	42.7	37.9	34.0	30.1	27.2	25.3	24.3	24.3	24.3
102.5°	43.7	40.8	35.9	32.0	29.1	27.2	24.3	22.3	21.4	21.4	21.4
105°	37.9	35.0	32.0	29.1	27.2	24.3	22.3	20.4	19.4	19.4	19.4
107.5°	35.0	33.0	30.1	28.2	25.3	23.3	21.4	18.5	17.5	17.5	17.5
110°	34.0	32.0	30.1	27.2	25.3	23.3	21.4	17.5	16.5	16.5	16.5



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CATALOG NUMBER: CRTK2-C013-D-U-T2-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	34.0	32.0	30.1	28.2	26.2	23.3	21.4	17.5	15.5	15.5	15.5
115°	35.9	34.0	32.0	30.1	27.2	24.3	22.3	17.5	15.5	15.5	15.5
117.5°	38.8	36.9	35.0	32.0	29.1	26.2	22.3	17.5	16.5	16.5	16.5
120°	43.7	41.8	38.8	35.9	32.0	28.2	24.3	18.5	15.5	16.5	16.5
122.5°	50.5	48.6	44.7	39.8	35.9	31.1	25.3	19.4	14.6	16.5	16.5
125°	60.2	57.3	51.5	45.6	39.8	34.0	27.2	20.4	15.5	17.5	17.5
127.5°	70.9	67.0	59.2	51.5	44.7	36.9	29.1	21.4	16.5	17.5	17.5
130°	83.5	76.7	67.0	57.3	48.6	39.8	31.1	22.3	17.5	17.5	17.5
132.5°	96.1	86.4	73.8	63.1	52.4	41.8	32.0	22.3	17.5	17.5	17.5
135°	106.8	95.2	80.6	67.0	54.4	42.7	33.0	22.3	17.5	17.5	17.5
137.5°	116.5	101.0	84.5	69.0	55.4	42.7	32.0	22.3	16.5	16.5	16.5
140°	121.4	103.9	86.4	69.0	54.4	41.8	30.1	20.4	15.5	15.5	15.5
142.5°	121.4	102.9	84.5	67.0	52.4	39.8	28.2	19.4	13.6	14.6	14.6
145°	117.5	99.1	80.6	63.1	48.6	35.9	25.3	16.5	12.6	12.6	12.6
147.5°	108.8	91.3	73.8	57.3	43.7	31.1	22.3	14.6	10.7	9.7	10.7
150°	97.1	80.6	64.1	49.5	36.9	26.2	18.5	11.7	8.7	8.7	8.7
152.5°	81.6	67.0	53.4	40.8	29.1	20.4	13.6	8.7	6.8	6.8	6.8
155°	64.1	52.4	41.8	31.1	22.3	15.5	10.7	6.8	4.9	4.9	4.9
157.5°	48.6	39.8	31.1	22.3	16.5	11.7	7.8	4.9	3.9	3.9	3.9
160°	34.0	27.2	21.4	15.5	10.7	7.8	4.9	2.9	1.9	1.9	1.9
162.5°	21.4	17.5	13.6	8.7	6.8	4.9	2.9	1.9	1.0	1.0	1.0
165°	9.7	8.7	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	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)