

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: P691129

Luminaire Tested: **CRTK2-C013-D-U-T2-8027-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-D-U-T2-8027-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K LED WITH TYPE II OPTIC AND NEMA REFRACTOR WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1972 lumens
Efficiency: N/A
Efficacy: 96.7 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



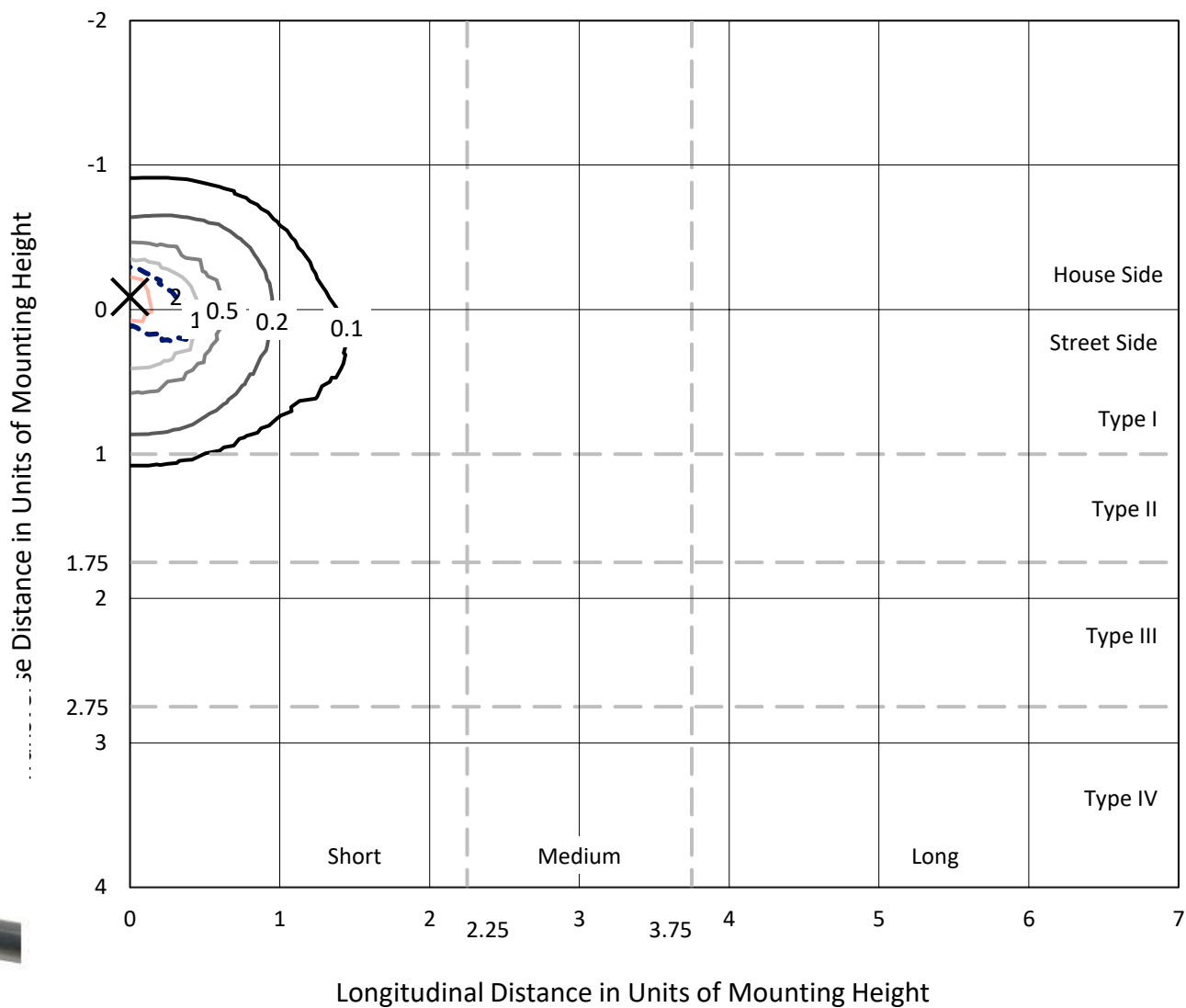
REPORT NUMBER: P691129

CATALOG NUMBER: CRTK2-C013-D-U-T2-8027-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

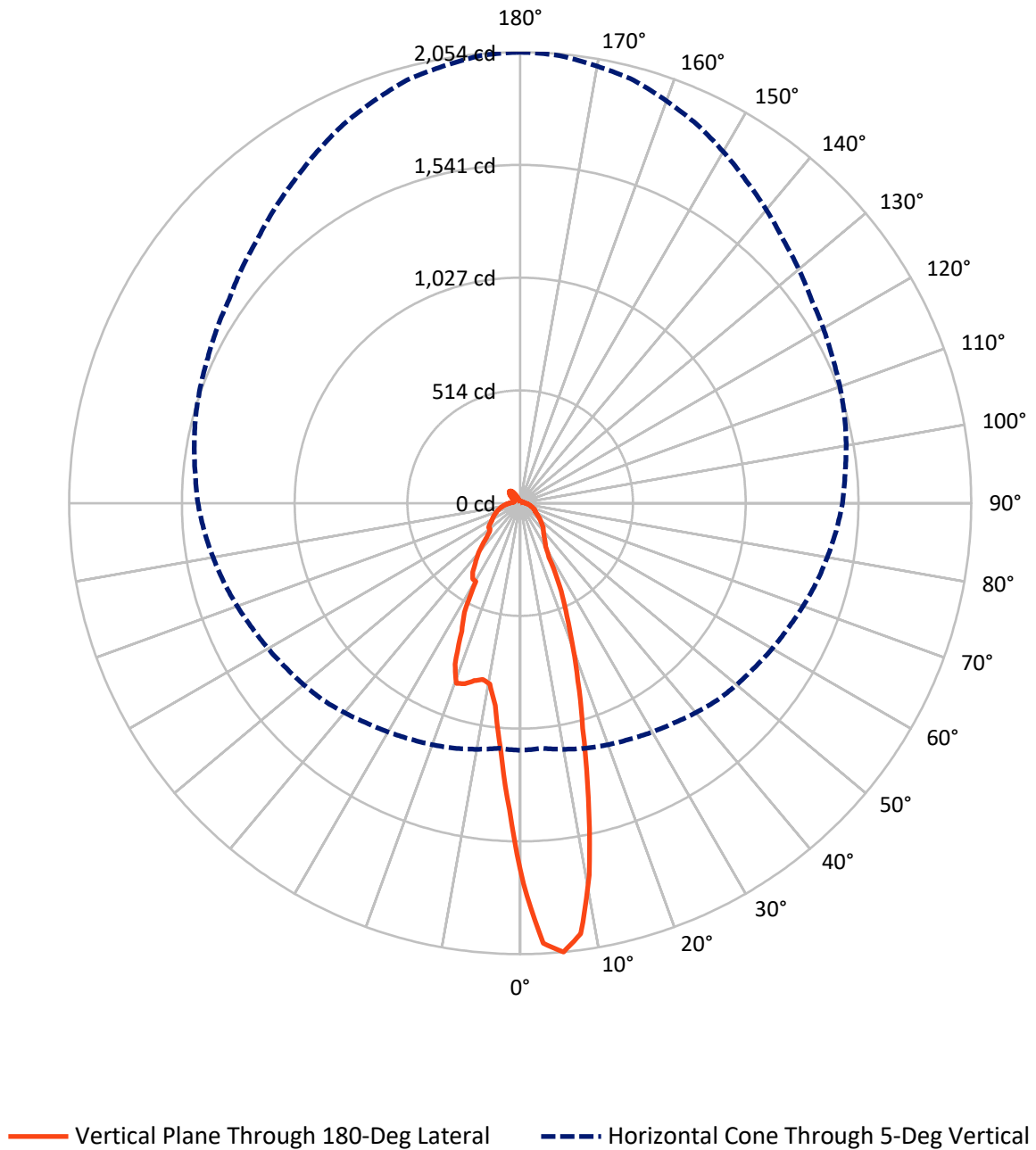


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type I - Short - N/A

REPORT NUMBER: P691129

CATALOG NUMBER: CRTK2-C013-D-U-T2-8027-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691129

CATALOG NUMBER: CRTK2-C013-D-U-T2-8027-RMARROA5-HSS-CRTK2

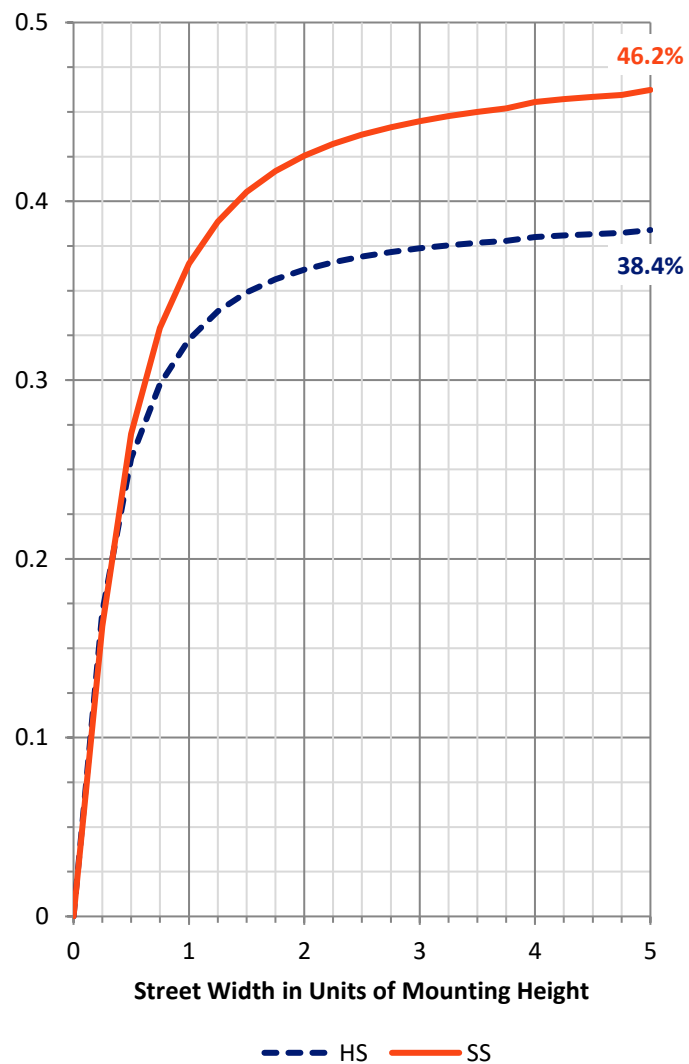
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	777.1	91.2	868.4
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	934.0	169.6	1103.6
	% Fixture	47.4	8.6	56.0
Total	Lumens	1711.1	260.9	1972.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	6.8
10°-20°	284.7	14.4
20°-30°	309.9	15.7
30°-40°	226.8	11.5
40°-50°	190.7	9.7
50°-60°	193.7	9.8
60°-70°	164.6	8.3
70°-80°	122.9	6.2
80°-90°	83.6	4.2
90°-100°	50.2	2.5
100°-110°	28.8	1.5
110°-120°	26.5	1.3
120°-130°	38.5	2.0
130°-140°	53.0	2.7
140°-150°	43.8	2.2
150°-160°	17.8	0.9
160°-170°	2.2	0.1
170°-180°	0.0	0.0
0°-90°	1711.1	86.8
0°-180°	1972.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691129

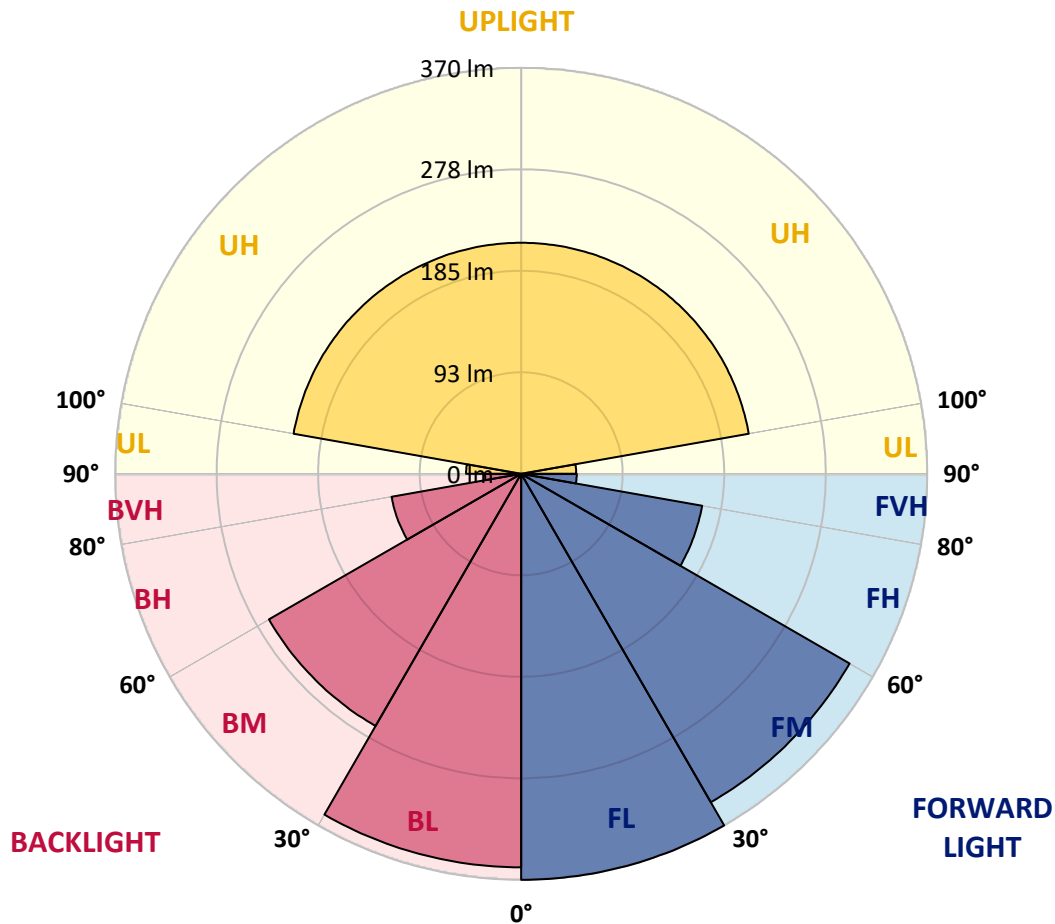
CATALOG NUMBER: CRTK2-C013-D-U-T2-8027-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	370.1	18.8			
FM	(30°-60°)	345.7	17.5			
FH	(60°-80°)	167.5	8.5			G0/660
FVH	(80°-90°)	50.6	2.6			G1/100
BL	(0°-30°)	358.7	18.2	B1/500		
BM	(30°-60°)	265.5	13.5	B1/1000		
BH	(60°-80°)	120.0	6.1	B1/500		G1/500
BVH	(80°-90°)	33.0	1.7			G1/100
UL	(90°-100°)	50.2	2.5		U3/500	
UH	(100°-180°)	210.6	10.7		U3/500	

BUG Rating: B1-U3-G1

Type I Short



REPORT NUMBER: P691129

CATALOG NUMBER: CRTK2-C013-D-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5
2.5°	1398.1	1395.4	1414.8	1419.1	1420.9	1441.1	1468.3	1486.8	1520.1	1552.6	1565.8
5°	1125.8	1120.6	1155.7	1185.5	1221.6	1269.0	1304.1	1346.3	1396.3	1444.6	1467.4
7.5°	928.2	935.3	985.3	1046.8	1104.8	1161.0	1204.0	1240.0	1269.0	1299.7	1305.9
10°	835.2	841.3	890.5	949.3	1002.9	1060.0	1096.8	1127.6	1146.0	1168.9	1176.8
12.5°	820.2	824.6	858.0	899.3	939.7	991.5	1038.0	1072.3	1093.3	1111.8	1113.5
15°	835.2	836.9	857.1	884.3	919.5	962.5	1016.1	1054.7	1078.4	1086.3	1084.6
17.5°	859.7	859.7	869.4	892.2	925.6	966.9	1017.8	1057.3	1081.9	1085.4	1078.4
20°	870.3	872.0	878.2	903.6	933.5	971.3	1022.2	1055.6	1074.9	1065.2	1052.9
22.5°	791.2	787.7	804.4	858.0	924.7	992.3	1040.6	1078.4	1088.9	1056.5	1030.1
25°	640.2	642.0	652.5	678.8	730.6	793.0	900.1	1015.2	1095.1	1082.8	1043.3
27.5°	558.5	553.3	555.9	560.3	553.3	540.1	552.4	549.7	548.0	579.6	583.1
30°	410.1	411.0	415.4	423.3	440.0	464.6	490.9	505.8	519.0	543.6	540.1
32.5°	407.5	408.4	411.0	418.0	426.8	443.5	460.2	466.3	480.4	500.6	494.4
35°	381.1	378.5	385.5	391.7	394.3	401.3	414.5	423.3	432.1	446.1	442.6
37.5°	338.1	339.0	353.0	362.7	365.3	375.0	387.3	394.3	404.0	416.3	410.1
40°	301.2	302.1	318.8	329.3	335.5	348.6	367.1	375.9	391.7	401.3	394.3
42.5°	259.1	262.6	274.0	286.3	289.8	297.7	310.0	321.4	341.6	354.8	350.4
45°	216.0	217.8	225.7	238.0	243.3	252.0	263.5	274.0	289.8	300.3	299.5
47.5°	190.6	192.3	199.3	209.9	220.4	231.8	244.1	254.7	269.6	278.4	274.9
50°	180.0	181.8	190.6	202.9	216.0	231.0	245.9	257.3	271.4	276.6	272.2
52.5°	181.8	181.8	194.1	209.9	228.3	248.5	267.0	281.0	292.4	295.9	286.3
55°	172.1	174.8	187.9	209.9	238.0	269.6	301.2	331.1	347.8	344.2	325.8
57.5°	157.2	159.8	169.5	193.2	223.1	260.8	305.6	342.5	362.7	365.3	346.9
60°	148.4	150.2	159.0	177.4	203.7	234.5	274.9	304.7	327.6	334.6	321.4
62.5°	140.5	142.3	149.3	163.3	182.7	206.4	229.2	248.5	267.0	274.0	268.7
65°	131.7	132.6	139.6	151.9	167.7	187.9	207.3	221.3	236.2	240.6	234.5
67.5°	122.9	123.8	130.0	141.4	156.3	174.8	189.7	205.5	220.4	223.9	219.5
70°	115.0	115.9	121.2	131.7	144.9	162.5	176.5	187.1	202.0	205.5	200.2
72.5°	107.1	108.0	113.3	122.9	135.2	151.0	163.3	173.9	186.2	187.1	182.7
75°	99.2	100.1	104.5	113.3	123.8	139.6	151.0	159.8	170.4	170.4	165.1
77.5°	90.5	92.2	95.7	103.6	113.3	128.2	138.8	147.5	156.3	155.4	150.2
80°	82.5	83.4	86.9	94.0	102.7	116.8	127.3	134.4	142.3	141.4	137.0
82.5°	73.8	74.6	77.3	84.3	92.2	105.4	115.9	122.9	130.0	128.2	123.8
85°	65.0	65.9	69.4	74.6	82.5	94.8	104.5	111.5	116.8	115.0	111.5
87.5°	58.0	58.0	60.6	65.9	72.9	84.3	93.1	100.1	104.5	103.6	100.1
90°	50.1	50.9	52.7	57.1	63.2	72.9	81.7	87.8	92.2	90.5	86.9
92.5°	43.9	43.9	45.7	50.1	55.3	64.1	72.0	77.3	80.8	79.9	77.3
95°	37.8	38.6	39.5	43.0	47.4	54.4	61.5	66.7	70.3	69.4	67.6
97.5°	33.4	34.2	35.1	36.9	41.3	45.7	51.8	56.2	59.7	58.8	57.1
100°	30.7	30.7	30.7	32.5	35.1	38.6	43.0	46.5	48.3	49.2	47.4
102.5°	28.1	28.1	29.0	29.0	30.7	32.5	35.1	37.8	38.6	38.6	38.6
105°	27.2	27.2	28.1	28.1	29.0	29.9	31.6	32.5	33.4	33.4	32.5
107.5°	27.2	27.2	27.2	27.2	28.1	29.0	29.9	30.7	30.7	30.7	29.9
110°	28.1	28.1	28.1	28.1	28.1	29.0	29.0	29.9	29.9	29.0	29.0

REPORT NUMBER: P691129

CATALOG NUMBER: CRTK2-C013-D-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	29.0	29.0	29.0	29.0	29.0	29.9	29.9	29.9	29.9	29.0	29.0
115°	30.7	30.7	30.7	31.6	31.6	31.6	31.6	31.6	31.6	30.7	29.9
117.5°	34.2	34.2	34.2	34.2	35.1	35.1	35.1	35.1	35.1	33.4	33.4
120°	38.6	37.8	38.6	39.5	40.4	40.4	40.4	40.4	40.4	38.6	37.8
122.5°	43.0	43.0	43.9	45.7	47.4	48.3	47.4	47.4	47.4	44.8	43.9
125°	48.3	48.3	50.9	54.4	57.1	58.0	57.1	57.1	57.1	54.4	52.7
127.5°	54.4	54.4	58.0	63.2	67.6	70.3	69.4	69.4	69.4	65.0	62.4
130°	60.6	60.6	65.9	72.9	79.9	81.7	82.5	83.4	83.4	78.2	74.6
132.5°	65.0	65.9	72.0	81.7	90.5	93.1	95.7	96.6	96.6	90.5	85.2
135°	69.4	70.3	78.2	89.6	99.2	105.4	108.0	108.9	109.8	102.7	96.6
137.5°	72.0	72.9	81.7	94.8	104.5	112.4	118.6	120.3	120.3	112.4	104.5
140°	72.0	72.9	82.5	94.8	105.4	115.0	122.1	125.6	125.6	117.7	110.7
142.5°	70.3	72.0	80.8	93.1	103.6	113.3	121.2	124.7	124.7	117.7	110.7
145°	66.7	67.6	76.4	86.9	97.5	108.9	117.7	121.2	121.2	114.2	107.1
147.5°	60.6	61.5	68.5	78.2	88.7	100.1	108.9	113.3	112.4	106.3	100.1
150°	52.7	52.7	58.8	66.7	77.3	87.8	96.6	101.0	101.0	94.8	89.6
152.5°	43.0	43.0	47.4	53.6	62.4	72.9	79.9	84.3	84.3	79.9	75.5
155°	33.4	33.4	36.9	41.3	48.3	56.2	61.5	65.9	65.9	62.4	58.8
157.5°	23.7	23.7	27.2	30.7	36.0	42.2	46.5	49.2	50.1	46.5	44.8
160°	15.8	15.8	17.6	20.2	24.6	29.0	31.6	34.2	35.1	32.5	31.6
162.5°	8.8	8.8	9.7	12.3	14.9	17.6	20.2	22.0	22.0	21.1	20.2
165°	2.6	2.6	3.5	4.4	6.1	7.9	8.8	9.7	10.5	10.5	9.7
167.5°	0.0	0.0	0.9	0.9	0.9	0.9	1.8	1.8	2.6	2.6	2.6
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: P691129

CATALOG NUMBER: CRTK2-C013-D-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5	1733.5
2.5°	1593.0	1642.2	1695.8	1747.6	1810.8	1876.7	1937.3	1978.5	2000.5	2007.5	2007.5
5°	1485.0	1529.8	1569.3	1618.5	1694.9	1794.1	1903.9	1995.2	2047.0	2053.2	2054.1
7.5°	1316.4	1353.3	1394.6	1438.5	1506.1	1594.8	1739.7	1887.2	1971.5	1987.3	1981.2
10°	1178.5	1201.4	1225.9	1242.6	1290.0	1355.9	1454.3	1599.2	1702.8	1715.1	1723.9
12.5°	1114.4	1117.9	1110.9	1114.4	1130.2	1161.0	1209.3	1292.7	1360.3	1371.7	1377.9
15°	1081.9	1064.4	1036.3	1009.9	995.9	998.5	1009.0	1043.3	1054.7	1074.0	1065.2
17.5°	1067.0	1027.5	983.6	932.6	901.0	868.5	851.0	844.8	840.4	841.3	849.2
20°	1029.2	984.4	914.2	847.4	796.5	751.7	714.0	686.7	671.8	664.8	670.1
22.5°	989.7	920.3	837.8	765.8	692.9	635.8	592.8	553.3	531.3	537.4	530.4
25°	990.6	887.0	788.6	693.8	625.3	549.7	481.2	440.0	404.0	411.0	420.6
27.5°	624.4	597.2	526.9	471.6	403.1	365.3	331.1	302.1	281.9	282.8	280.1
30°	529.5	501.4	466.3	422.4	370.6	326.7	287.2	253.8	234.5	229.2	228.3
32.5°	489.1	465.4	432.9	389.9	342.5	298.6	259.1	228.3	209.0	208.1	208.1
35°	435.6	413.6	386.4	349.5	309.1	268.7	231.8	205.5	189.7	189.7	188.8
37.5°	402.2	382.9	356.5	322.3	286.3	245.9	213.4	189.7	173.0	172.1	173.0
40°	384.6	364.4	339.0	306.5	270.5	231.8	201.1	176.5	164.2	163.3	162.5
42.5°	349.5	333.7	311.8	281.9	250.3	216.0	187.1	165.1	154.6	153.7	154.6
45°	296.8	285.4	270.5	248.5	222.2	193.2	167.7	151.0	140.5	140.5	140.5
47.5°	272.2	261.7	245.0	223.1	200.2	173.0	151.9	137.9	128.2	128.2	128.2
50°	266.1	252.9	231.0	206.4	181.8	158.1	138.8	124.7	117.7	116.8	117.7
52.5°	274.9	254.7	224.8	195.8	168.6	145.8	127.3	114.2	107.1	107.1	107.1
55°	306.5	269.6	230.1	193.2	160.7	135.2	116.8	103.6	96.6	95.7	96.6
57.5°	327.6	281.0	231.8	190.6	155.4	128.2	108.0	94.0	86.9	86.1	86.9
60°	309.1	271.4	223.9	183.5	151.0	122.9	101.9	87.8	80.8	79.9	79.9
62.5°	256.4	234.5	200.2	166.0	139.6	115.0	95.7	82.5	75.5	74.6	75.5
65°	227.4	208.1	178.3	151.0	128.2	107.1	90.5	79.0	72.0	72.0	72.0
67.5°	211.6	194.1	166.0	139.6	118.6	99.2	83.4	72.9	66.7	66.7	66.7
70°	193.2	175.6	150.2	126.5	107.1	90.5	76.4	65.9	60.6	59.7	60.6
72.5°	177.4	159.8	136.1	114.2	96.6	81.7	69.4	59.7	55.3	54.4	55.3
75°	159.8	143.1	120.3	101.0	86.1	72.9	62.4	53.6	50.1	49.2	49.2
77.5°	144.9	129.1	108.0	90.5	77.3	65.0	55.3	49.2	45.7	44.8	44.8
80°	131.7	116.8	96.6	80.8	68.5	58.0	50.1	43.9	40.4	40.4	40.4
82.5°	117.7	104.5	86.1	71.1	60.6	51.8	43.9	38.6	36.0	36.0	36.0
85°	106.3	93.1	75.5	63.2	52.7	44.8	38.6	34.2	31.6	31.6	31.6
87.5°	94.0	82.5	66.7	55.3	46.5	39.5	33.4	29.0	28.1	27.2	27.2
90°	81.7	71.1	57.1	47.4	39.5	33.4	28.1	24.6	23.7	22.8	22.8
92.5°	72.9	63.2	51.8	43.0	36.0	29.9	26.3	22.8	22.0	22.0	21.1
95°	63.2	55.3	45.7	38.6	32.5	28.1	24.6	22.0	21.1	21.1	20.2
97.5°	54.4	47.4	40.4	35.1	29.9	26.3	22.8	21.1	19.3	19.3	19.3
100°	45.7	40.4	35.1	29.9	27.2	23.7	21.1	19.3	18.4	17.6	17.6
102.5°	36.9	33.4	29.0	26.3	22.8	20.2	18.4	16.7	15.8	15.8	15.8
105°	31.6	29.0	26.3	23.7	21.1	18.4	16.7	14.9	14.1	14.1	14.1
107.5°	29.0	27.2	24.6	22.0	20.2	17.6	15.8	13.2	12.3	13.2	13.2
110°	28.1	26.3	23.7	22.0	19.3	17.6	15.8	12.3	11.4	12.3	12.3

REPORT NUMBER: P691129

CATALOG NUMBER: CRTK2-C013-D-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	28.1	26.3	24.6	22.0	20.2	17.6	15.8	12.3	11.4	11.4	11.4
115°	29.0	28.1	25.5	23.7	21.1	18.4	15.8	12.3	11.4	11.4	11.4
117.5°	32.5	30.7	28.1	25.5	22.8	19.3	16.7	12.3	11.4	11.4	11.4
120°	36.0	34.2	31.6	28.1	24.6	21.1	17.6	12.3	10.5	11.4	11.4
122.5°	42.2	39.5	36.0	31.6	27.2	22.8	17.6	13.2	9.7	11.4	11.4
125°	50.1	46.5	41.3	35.1	29.9	24.6	18.4	13.2	10.5	11.4	11.4
127.5°	58.8	54.4	47.4	39.5	32.5	25.5	19.3	13.2	10.5	10.5	11.4
130°	70.3	63.2	53.6	43.9	35.1	27.2	19.3	13.2	10.5	10.5	10.5
132.5°	79.9	71.1	58.8	47.4	36.9	28.1	19.3	13.2	9.7	9.7	9.7
135°	89.6	78.2	63.2	50.1	38.6	28.1	19.3	12.3	9.7	9.7	9.7
137.5°	97.5	82.5	66.7	50.9	38.6	27.2	18.4	11.4	8.8	8.8	8.8
140°	101.9	85.2	67.6	50.9	36.9	26.3	16.7	10.5	7.9	7.9	7.9
142.5°	101.9	84.3	66.7	49.2	35.1	24.6	14.9	8.8	7.0	7.0	7.0
145°	98.4	80.8	63.2	46.5	32.5	22.0	13.2	7.9	5.3	5.3	6.1
147.5°	92.2	74.6	58.0	42.2	29.0	18.4	11.4	6.1	4.4	4.4	4.4
150°	81.7	65.9	50.1	36.9	24.6	15.8	9.7	5.3	3.5	3.5	3.5
152.5°	68.5	54.4	42.2	30.7	20.2	12.3	7.0	4.4	2.6	2.6	2.6
155°	54.4	43.0	33.4	23.7	14.9	9.7	5.3	3.5	2.6	2.6	2.6
157.5°	40.4	32.5	24.6	17.6	11.4	7.0	4.4	2.6	1.8	1.8	1.8
160°	28.1	22.8	16.7	11.4	7.0	4.4	2.6	1.8	0.9	0.9	0.9
162.5°	18.4	14.1	10.5	7.0	4.4	2.6	1.8	0.9	0.9	0.9	0.9
165°	8.8	7.0	5.3	3.5	1.8	1.8	0.9	0.9	0.0	0.0	0.0
167.5°	2.6	1.8	0.9	0.9	0.9	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)