

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: P691137

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691137
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-D-U-T3-7030-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 2225 lumens
Efficiency: N/A
Efficacy: 109.1 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



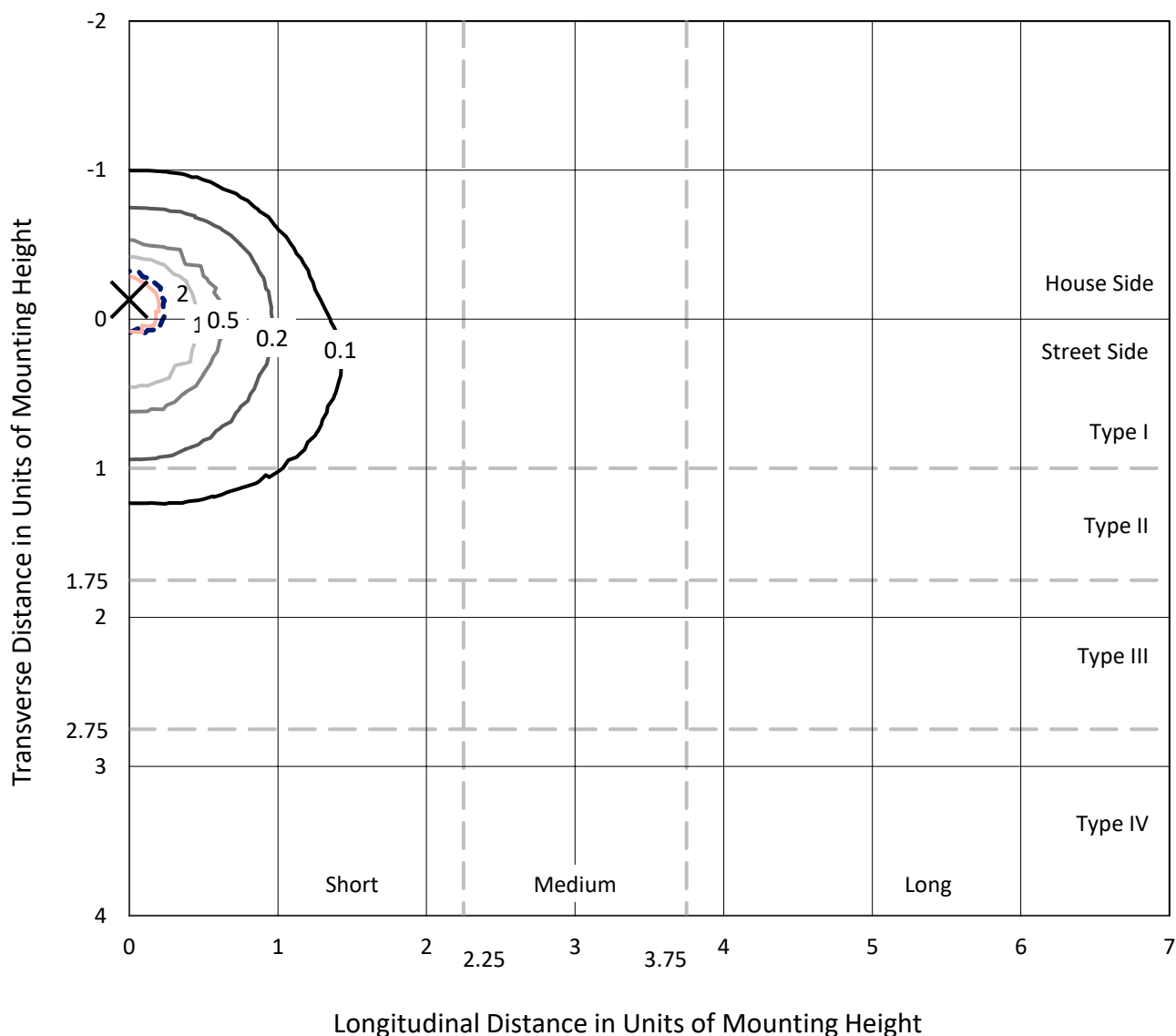
REPORT NUMBER: P691137

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

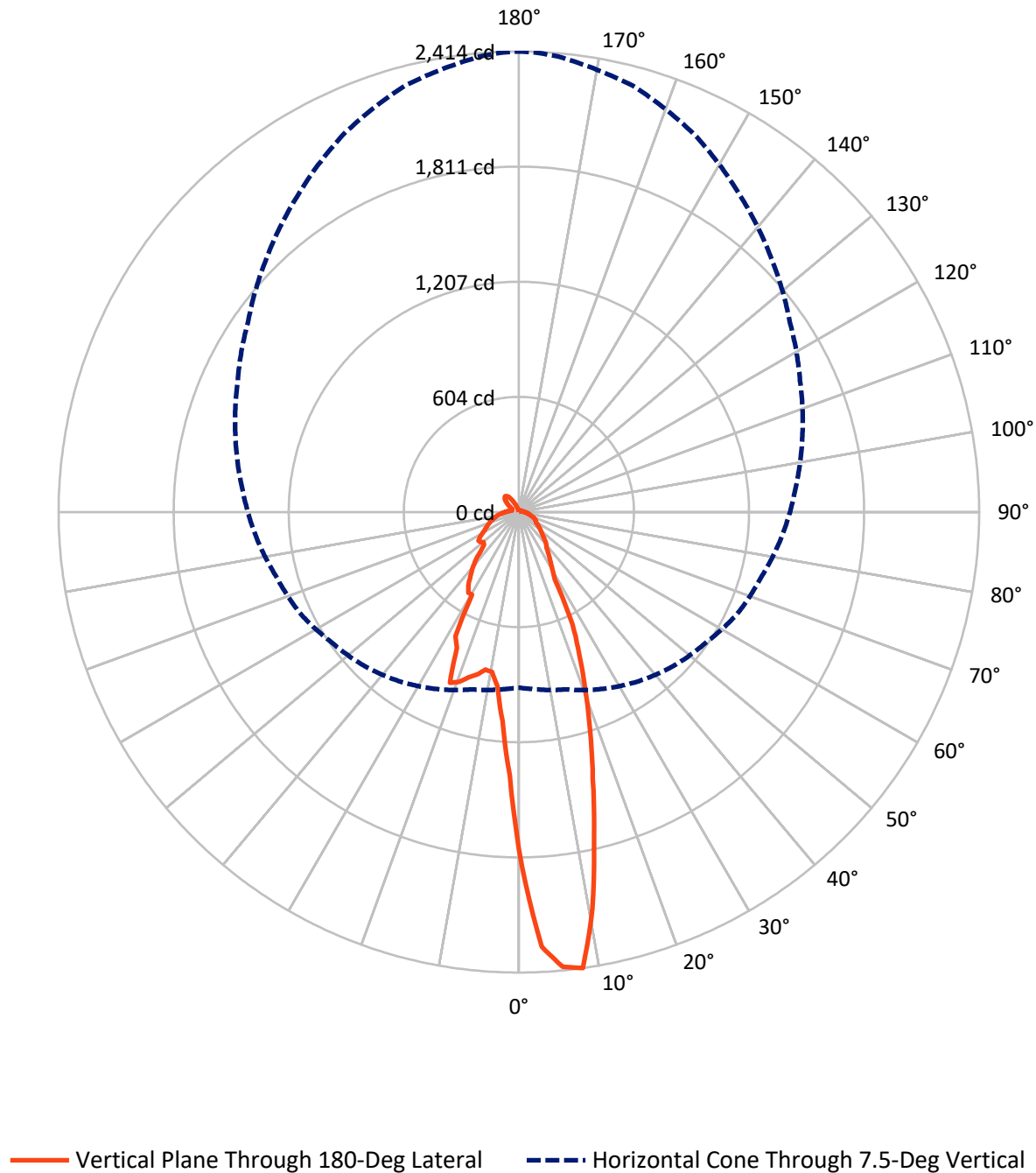


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type I - Short - N/A

REPORT NUMBER: P691137
CATALOG NUMBER: CRTK2-C013-D-U-T3-7030-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691137

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

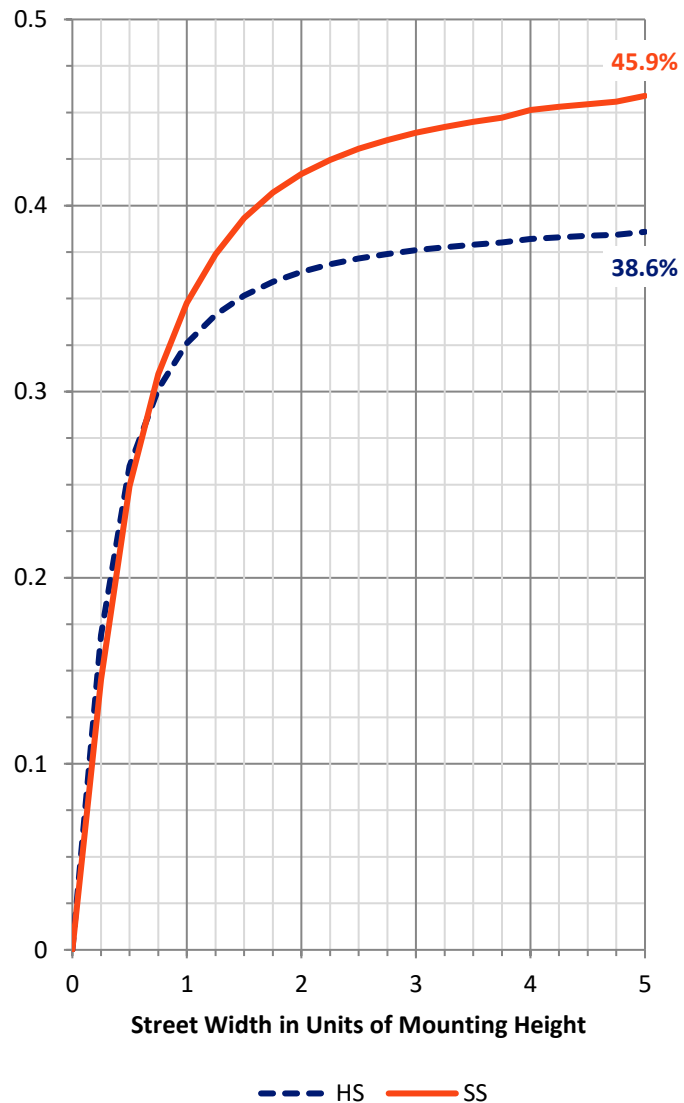
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.9	91.9	972.8
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1050.5	201.7	1252.2
	% Fixture	47.2	9.1	56.3
Total	Lumens	1931.4	293.6	2225.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	6.7
10°-20°	318.9	14.3
20°-30°	352.2	15.8
30°-40°	255.4	11.5
40°-50°	215.2	9.7
50°-60°	219.7	9.9
60°-70°	187.2	8.4
70°-80°	139.6	6.3
80°-90°	94.2	4.2
90°-100°	56.3	2.5
100°-110°	32.4	1.5
110°-120°	30.3	1.4
120°-130°	44.1	2.0
130°-140°	59.9	2.7
140°-150°	48.8	2.2
150°-160°	19.5	0.9
160°-170°	2.4	0.1
170°-180°	0.0	0.0
0°-90°	1931.4	86.8
0°-180°	2225.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691137

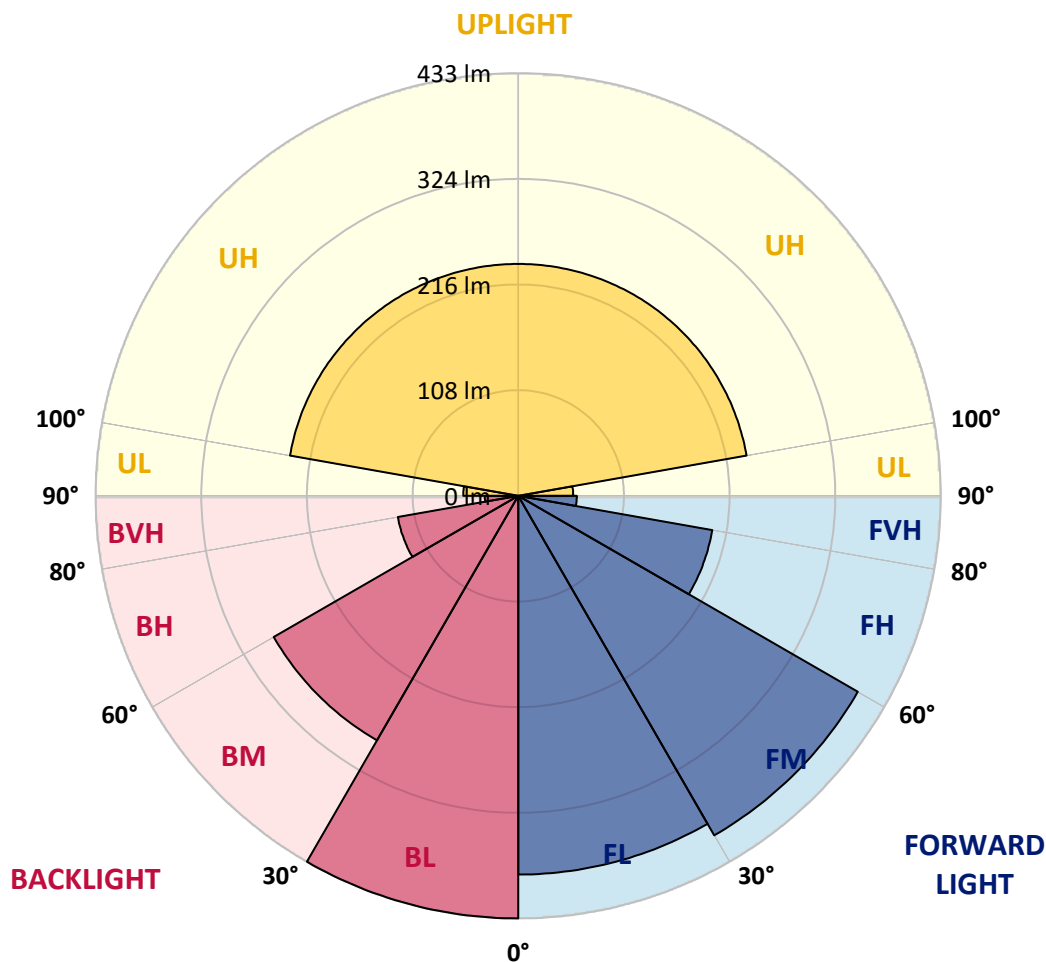
CATALOG NUMBER: CRTK2-C013-D-U-T3-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.6	17.4			
FM	(30°-60°)	401.3	18.0			
FH	(60°-80°)	201.7	9.1			G0/660
FVH	(80°-90°)	59.9	2.7			G1/100
BL	(0°-30°)	432.5	19.4	B1/500		
BM	(30°-60°)	289.0	13.0	B1/1000		
BH	(60°-80°)	125.1	5.6	B1/500		G1/500
BVH	(80°-90°)	34.3	1.5			G1/100
UL	(90°-100°)	56.3	2.5		U3/500	
UH	(100°-180°)	237.3	10.7		U3/500	

BUG Rating: B1-U3-G1

Type I Short



REPORT NUMBER: P691137

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5
2.5°	1380.8	1412.9	1415.8	1450.7	1477.0	1501.2	1518.7	1569.2	1620.7	1669.2	1697.4
5°	1096.3	1111.8	1140.0	1177.9	1226.4	1264.3	1318.7	1389.6	1457.5	1543.0	1584.8
7.5°	920.6	932.2	962.3	1023.5	1084.7	1142.9	1195.4	1263.3	1315.8	1386.7	1421.6
10°	850.6	857.4	882.7	925.4	983.7	1032.2	1077.9	1129.3	1175.9	1241.0	1266.2
12.5°	843.8	846.8	867.1	897.2	931.2	971.0	1008.9	1052.6	1102.1	1153.6	1173.0
15°	880.7	878.8	885.6	903.1	922.5	953.6	988.5	1028.3	1075.9	1113.8	1129.3
17.5°	907.0	906.0	918.6	926.4	944.8	963.3	998.2	1029.3	1075.9	1106.0	1114.8
20°	944.8	946.8	950.7	965.2	973.0	985.6	1007.0	1025.4	1065.2	1082.7	1080.8
22.5°	965.2	964.3	980.8	1014.7	1023.5	1030.3	1034.2	1041.9	1064.3	1063.3	1048.7
25°	782.7	784.6	788.5	817.6	854.5	914.7	964.3	1041.9	1083.7	1068.2	1037.1
27.5°	731.2	725.4	705.0	688.5	638.9	605.9	574.9	561.3	568.1	579.7	611.8
30°	498.1	499.1	501.1	504.0	508.8	521.5	530.2	531.2	538.0	557.4	550.6
32.5°	499.1	500.1	497.2	500.1	498.1	503.0	502.0	498.1	504.0	521.5	514.7
35°	469.0	467.1	469.0	470.0	459.3	455.4	454.5	451.5	455.4	464.2	458.3
37.5°	422.4	421.4	430.2	435.0	426.3	426.3	424.3	420.5	423.4	431.1	423.4
40°	381.6	382.6	395.2	403.0	400.1	403.0	405.9	404.9	411.7	414.6	404.9
42.5°	337.0	335.0	347.6	353.5	347.6	349.6	348.6	349.6	363.2	369.0	362.2
45°	281.6	284.5	290.3	298.1	297.1	300.1	299.1	301.0	309.8	312.7	307.8
47.5°	250.5	252.5	259.3	268.0	272.9	277.7	277.7	278.7	284.5	285.5	280.6
50°	243.7	245.7	254.4	264.1	271.9	277.7	280.6	279.7	282.6	280.6	273.8
52.5°	255.4	255.4	269.0	280.6	290.3	301.0	304.9	301.0	301.0	293.3	282.6
55°	260.2	261.2	277.7	298.1	316.6	336.0	348.6	347.6	346.7	334.0	314.6
57.5°	244.7	247.6	264.1	287.4	312.7	343.8	362.2	365.1	365.1	348.6	327.2
60°	222.4	224.3	236.9	256.4	281.6	304.9	324.3	326.3	332.1	323.4	303.9
62.5°	203.9	205.9	216.5	231.1	249.6	264.1	270.0	270.0	272.9	270.0	256.4
65°	190.3	191.3	200.0	212.7	225.3	236.9	242.8	240.8	244.7	240.8	230.1
67.5°	177.7	177.7	185.5	195.2	206.8	220.4	224.3	226.3	230.1	225.3	215.6
70°	165.1	166.0	173.8	181.6	192.3	202.0	205.9	206.8	211.7	205.9	199.1
72.5°	154.4	154.4	161.2	169.0	176.7	186.4	189.4	191.3	194.2	188.4	182.6
75°	141.8	142.7	148.6	155.4	162.2	171.9	174.8	175.8	178.7	171.9	166.0
77.5°	130.1	131.1	135.9	141.8	148.6	156.3	159.3	161.2	162.2	156.3	150.5
80°	118.5	119.4	123.3	129.1	135.0	142.7	144.7	145.7	147.6	140.8	136.9
82.5°	107.8	107.8	110.7	115.6	121.4	128.2	131.1	132.1	133.0	127.2	123.3
85°	95.2	95.2	98.1	102.9	107.8	114.6	117.5	118.5	118.5	113.6	109.7
87.5°	84.5	84.5	86.4	90.3	94.2	101.0	103.9	105.8	104.9	101.0	97.1
90°	73.8	73.8	75.7	78.7	82.5	88.4	91.3	92.2	92.2	87.4	84.5
92.5°	64.1	64.1	66.0	68.9	71.9	76.7	79.6	81.6	81.6	77.7	74.8
95°	55.3	55.3	56.3	59.2	62.1	66.0	68.0	69.9	69.9	68.0	65.1
97.5°	47.6	47.6	48.6	50.5	52.4	55.3	57.3	59.2	59.2	58.3	56.3
100°	41.8	41.8	41.8	42.7	44.7	45.6	47.6	49.5	49.5	48.6	47.6
102.5°	37.9	37.9	37.9	37.9	37.9	38.8	38.8	39.8	39.8	39.8	38.8
105°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.0	34.0	33.0
107.5°	35.9	35.0	35.0	35.0	35.0	34.0	34.0	34.0	33.0	32.0	31.1
110°	35.9	35.9	35.9	35.9	35.0	34.0	34.0	33.0	32.0	31.1	30.1



REPORT NUMBER: P691137

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	37.9	37.9	37.9	36.9	35.9	35.9	35.0	34.0	33.0	31.1	30.1
115°	40.8	40.8	40.8	40.8	39.8	37.9	36.9	35.9	34.0	33.0	32.0
117.5°	45.6	45.6	45.6	45.6	43.7	42.7	40.8	39.8	37.9	35.9	35.0
120°	51.5	51.5	52.4	52.4	51.5	49.5	46.6	45.6	43.7	40.8	38.8
122.5°	60.2	59.2	61.2	61.2	61.2	59.2	55.3	53.4	51.5	47.6	45.6
125°	68.9	68.9	70.9	72.8	73.8	70.9	67.0	64.1	61.2	56.3	53.4
127.5°	78.7	78.7	82.5	86.4	88.4	85.5	80.6	77.7	73.8	67.0	63.1
130°	88.4	88.4	94.2	100.0	102.9	101.0	96.1	92.2	87.4	78.7	73.8
132.5°	97.1	97.1	103.9	111.7	115.6	114.6	109.7	105.8	102.0	91.3	84.5
135°	103.9	104.9	113.6	122.4	127.2	128.2	123.3	118.5	113.6	102.0	94.2
137.5°	107.8	109.7	118.5	129.1	134.0	136.9	134.0	129.1	123.3	110.7	102.0
140°	108.8	109.7	119.4	130.1	135.0	138.9	138.9	133.0	128.2	115.6	105.8
142.5°	105.8	106.8	116.5	126.2	131.1	135.9	136.9	132.1	127.2	115.6	105.8
145°	99.0	101.0	109.7	117.5	124.3	129.1	131.1	128.2	122.4	111.7	102.9
147.5°	90.3	91.3	99.0	105.8	112.6	118.5	121.4	118.5	113.6	103.9	96.1
150°	76.7	77.7	83.5	89.3	97.1	102.9	106.8	104.9	101.0	93.2	85.5
152.5°	62.1	62.1	67.0	71.9	78.7	84.5	88.4	87.4	84.5	77.7	71.9
155°	47.6	47.6	50.5	54.4	60.2	64.1	68.0	68.0	66.0	61.2	56.3
157.5°	34.0	34.0	36.9	39.8	43.7	47.6	50.5	50.5	49.5	45.6	42.7
160°	22.3	22.3	24.3	26.2	30.1	32.0	35.0	35.0	34.0	32.0	30.1
162.5°	11.7	11.7	13.6	14.6	17.5	19.4	21.4	22.3	22.3	20.4	19.4
165°	3.9	3.9	3.9	4.9	6.8	8.7	9.7	10.7	10.7	9.7	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	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: P691137

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5
2.5°	1727.5	1815.9	1891.6	1971.2	2059.6	2134.4	2210.1	2251.9	2287.8	2281.0	2281.0
5°	1625.5	1713.9	1806.1	1903.3	2022.7	2145.0	2261.6	2345.1	2388.8	2395.6	2394.6
7.5°	1456.6	1539.1	1626.5	1734.3	1874.1	2023.7	2181.9	2313.0	2395.6	2411.1	2414.0
10°	1289.6	1351.7	1425.5	1499.3	1624.6	1761.5	1903.3	2008.1	2088.7	2100.4	2114.0
12.5°	1189.5	1223.5	1271.1	1322.6	1404.1	1504.2	1620.7	1680.9	1732.3	1738.2	1750.8
15°	1138.1	1154.6	1166.2	1184.7	1233.2	1295.4	1348.8	1408.0	1429.4	1443.9	1450.7
17.5°	1117.7	1115.7	1104.1	1104.1	1108.0	1131.3	1165.3	1185.6	1199.2	1206.0	1208.0
20°	1075.9	1058.4	1035.1	1004.1	987.6	979.8	988.5	993.4	989.5	984.6	993.4
22.5°	1032.2	995.3	953.6	917.6	874.9	848.7	823.4	814.7	804.0	810.8	810.8
25°	1018.6	953.6	886.6	826.4	762.3	718.6	672.0	655.5	638.9	652.5	652.5
27.5°	602.0	602.0	564.2	513.7	458.3	435.0	416.6	405.9	399.1	402.0	402.0
30°	538.9	513.7	490.4	458.3	415.6	387.4	363.2	348.6	341.8	339.9	341.8
32.5°	500.1	480.7	452.5	420.5	382.6	351.5	324.3	309.8	299.1	301.0	302.0
35°	447.7	427.3	403.0	372.9	340.8	311.7	287.4	272.9	263.2	263.2	264.1
37.5°	414.6	394.2	370.9	343.8	312.7	284.5	262.2	244.7	236.0	235.0	235.0
40°	394.2	373.9	352.5	325.3	296.2	267.0	244.7	229.2	218.5	218.5	219.5
42.5°	357.3	337.9	319.5	295.2	269.0	243.7	222.4	208.8	198.1	196.2	198.1
45°	301.0	290.3	275.8	259.3	236.9	216.5	197.1	185.5	176.7	176.7	175.8
47.5°	275.8	265.1	249.6	233.1	214.6	194.2	178.7	168.0	160.2	160.2	160.2
50°	266.1	254.4	235.0	216.5	195.2	177.7	164.1	153.4	147.6	147.6	146.6
52.5°	270.9	252.5	227.2	201.0	180.6	163.1	149.5	138.9	134.0	134.0	133.0
55°	297.1	264.1	227.2	195.2	170.9	151.5	137.9	126.2	121.4	121.4	121.4
57.5°	307.8	270.9	225.3	189.4	162.2	141.8	125.3	114.6	109.7	109.7	108.8
60°	288.4	257.3	215.6	181.6	155.4	135.0	119.4	108.8	102.9	102.9	102.0
62.5°	245.7	223.3	191.3	166.0	145.7	127.2	113.6	102.9	98.1	98.1	98.1
65°	220.4	201.0	175.8	153.4	135.0	119.4	106.8	98.1	93.2	93.2	93.2
67.5°	205.9	189.4	164.1	142.7	124.3	109.7	98.1	90.3	86.4	85.5	86.4
70°	190.3	172.8	149.5	129.1	112.6	99.0	88.4	80.6	76.7	76.7	76.7
72.5°	173.8	157.3	135.0	116.5	100.0	89.3	78.7	71.9	68.0	68.0	67.0
75°	158.3	141.8	120.4	102.9	89.3	78.7	69.9	64.1	60.2	60.2	60.2
77.5°	143.7	128.2	107.8	92.2	79.6	70.9	62.1	57.3	54.4	54.4	53.4
80°	130.1	115.6	96.1	82.5	70.9	63.1	55.3	51.5	48.6	48.6	48.6
82.5°	116.5	102.9	85.5	72.8	63.1	55.3	49.5	45.6	43.7	42.7	43.7
85°	103.9	91.3	75.7	64.1	55.3	48.6	43.7	39.8	37.9	37.9	37.9
87.5°	92.2	80.6	67.0	56.3	48.6	42.7	37.9	35.0	34.0	33.0	33.0
90°	79.6	68.9	57.3	48.6	41.8	36.9	32.0	30.1	28.2	28.2	28.2
92.5°	70.9	62.1	51.5	43.7	37.9	34.0	30.1	28.2	26.2	26.2	26.2
95°	62.1	54.4	45.6	39.8	35.0	31.1	28.2	26.2	25.2	25.2	25.2
97.5°	53.4	47.6	40.8	35.9	32.0	29.1	26.2	24.3	23.3	23.3	23.3
100°	44.7	40.8	35.9	32.0	29.1	26.2	23.3	22.3	21.4	21.4	21.4
102.5°	36.9	34.0	30.1	27.2	24.3	22.3	20.4	19.4	18.4	18.4	18.4
105°	32.0	30.1	27.2	24.3	22.3	20.4	18.4	16.5	16.5	16.5	16.5
107.5°	30.1	27.2	25.2	23.3	21.4	18.4	17.5	15.5	14.6	14.6	14.6
110°	29.1	27.2	25.2	22.3	20.4	18.4	16.5	14.6	13.6	13.6	13.6



REPORT NUMBER: P691137

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	29.1	27.2	25.2	23.3	21.4	18.4	17.5	13.6	12.6	12.6	12.6
115°	31.1	29.1	26.2	24.3	21.4	19.4	17.5	13.6	12.6	12.6	12.6
117.5°	33.0	31.1	28.2	26.2	23.3	20.4	17.5	13.6	12.6	12.6	12.6
120°	37.9	35.0	31.1	28.2	25.2	21.4	18.4	13.6	11.7	12.6	12.6
122.5°	42.7	39.8	35.0	31.1	27.2	23.3	18.4	13.6	11.7	12.6	12.6
125°	50.5	45.6	39.8	35.0	29.1	24.3	19.4	13.6	10.7	11.7	12.6
127.5°	59.2	53.4	45.6	38.8	32.0	25.2	19.4	13.6	10.7	11.7	11.7
130°	68.9	61.2	51.5	41.8	34.0	26.2	19.4	13.6	10.7	11.7	11.7
132.5°	78.7	68.0	56.3	45.6	35.9	27.2	19.4	12.6	10.7	10.7	10.7
135°	86.4	73.8	60.2	47.6	36.9	27.2	18.4	12.6	9.7	9.7	9.7
137.5°	93.2	78.7	63.1	48.6	36.9	26.2	17.5	11.7	8.7	8.7	8.7
140°	97.1	80.6	64.1	47.6	35.0	25.2	16.5	10.7	7.8	7.8	7.8
142.5°	97.1	79.6	62.1	46.6	33.0	23.3	14.6	8.7	6.8	6.8	6.8
145°	93.2	75.7	59.2	43.7	30.1	20.4	12.6	7.8	5.8	5.8	5.8
147.5°	87.4	69.9	54.4	39.8	27.2	17.5	10.7	6.8	4.9	4.9	4.9
150°	77.7	62.1	47.6	34.0	23.3	14.6	8.7	5.8	3.9	3.9	3.9
152.5°	65.1	51.5	39.8	28.2	19.4	11.7	7.8	3.9	2.9	2.9	2.9
155°	51.5	40.8	31.1	22.3	14.6	8.7	5.8	3.9	1.9	1.9	1.9
157.5°	38.8	30.1	23.3	16.5	10.7	6.8	3.9	2.9	1.9	1.9	1.9
160°	27.2	21.4	15.5	10.7	6.8	4.9	2.9	1.9	1.0	1.0	1.0
162.5°	17.5	13.6	9.7	6.8	3.9	2.9	1.9	1.0	1.0	1.0	0.0
165°	8.7	6.8	4.9	2.9	1.9	1.0	1.0	1.0	0.0	0.0	0.0
167.5°	1.9	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)