

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: P691205

Luminaire Tested: **CRTK2-C015-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691205
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-C015-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 3659 lumens
Efficiency: N/A
Efficacy: 111.9 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): 32.7
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

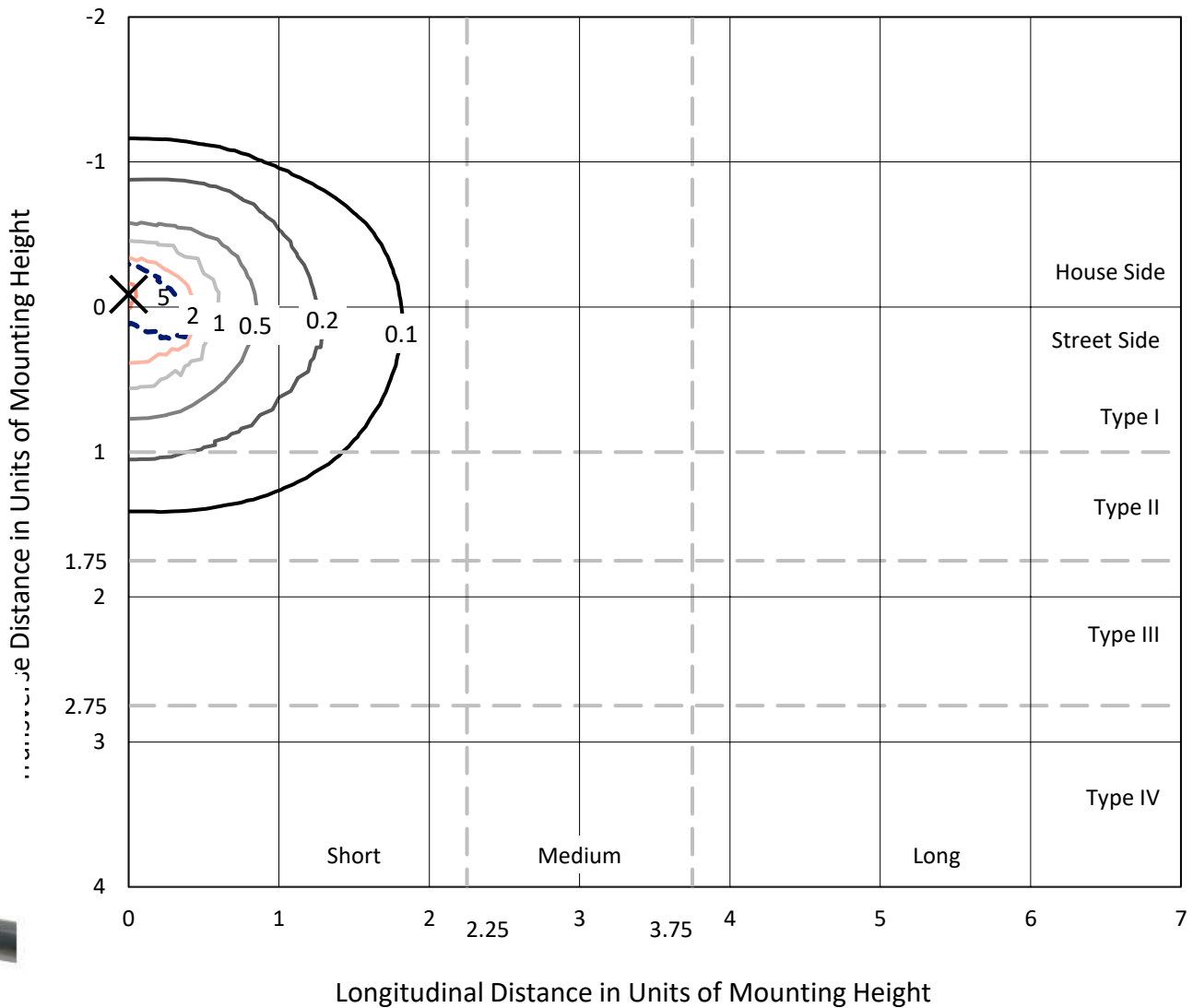


REPORT NUMBER: P691205

CATALOG NUMBER: CRTK2-C015-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

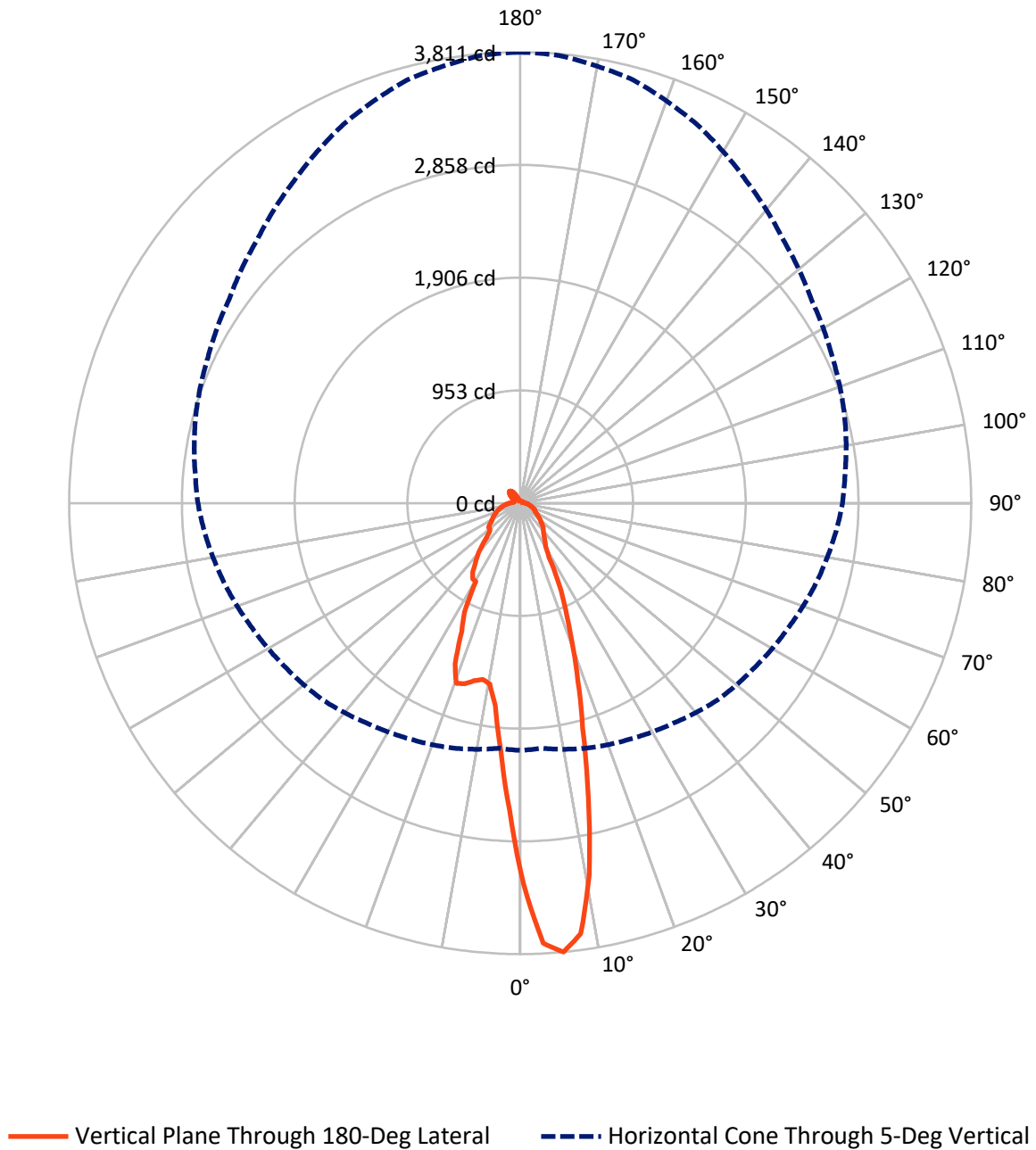


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type I - Short - N/A

REPORT NUMBER: P691205

CATALOG NUMBER: CRTK2-C015-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



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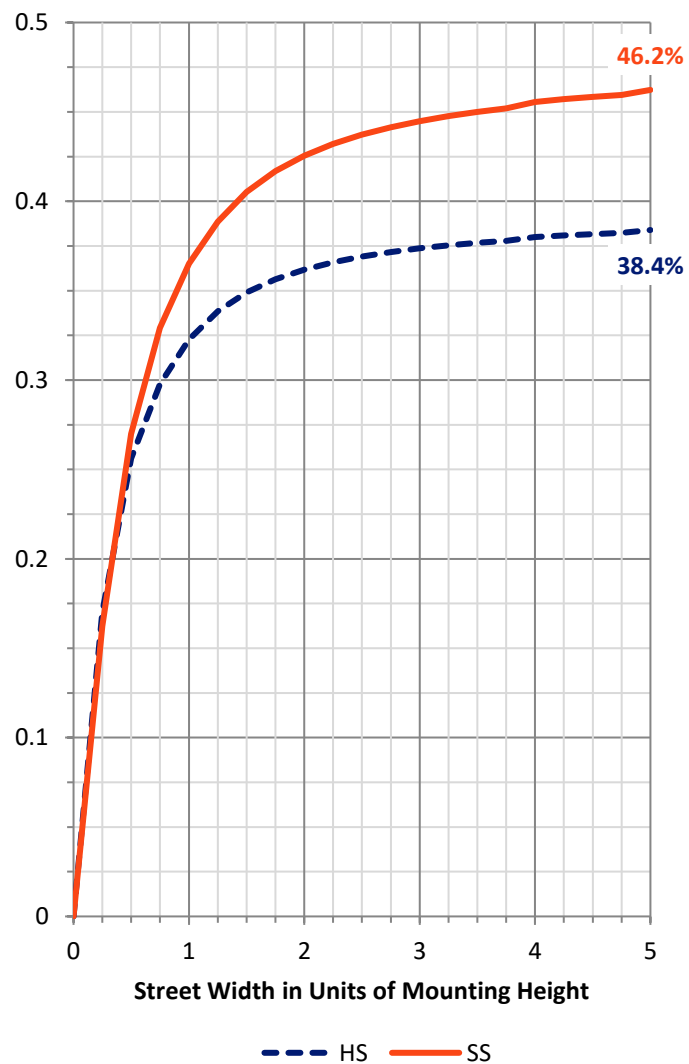
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1442.0	169.3	1611.3
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	1733.0	314.7	2047.7
	% Fixture	47.4	8.6	56.0
Total	Lumens	3175.0	484.0	3659.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	6.8
10°-20°	528.3	14.4
20°-30°	575.0	15.7
30°-40°	420.9	11.5
40°-50°	353.9	9.7
50°-60°	359.4	9.8
60°-70°	305.5	8.3
70°-80°	227.9	6.2
80°-90°	155.1	4.2
90°-100°	93.2	2.5
100°-110°	53.4	1.5
110°-120°	49.2	1.3
120°-130°	71.4	2.0
130°-140°	98.3	2.7
140°-150°	81.3	2.2
150°-160°	33.1	0.9
160°-170°	4.1	0.1
170°-180°	0.0	0.0
0°-90°	3175.0	86.8
0°-180°	3659.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691205

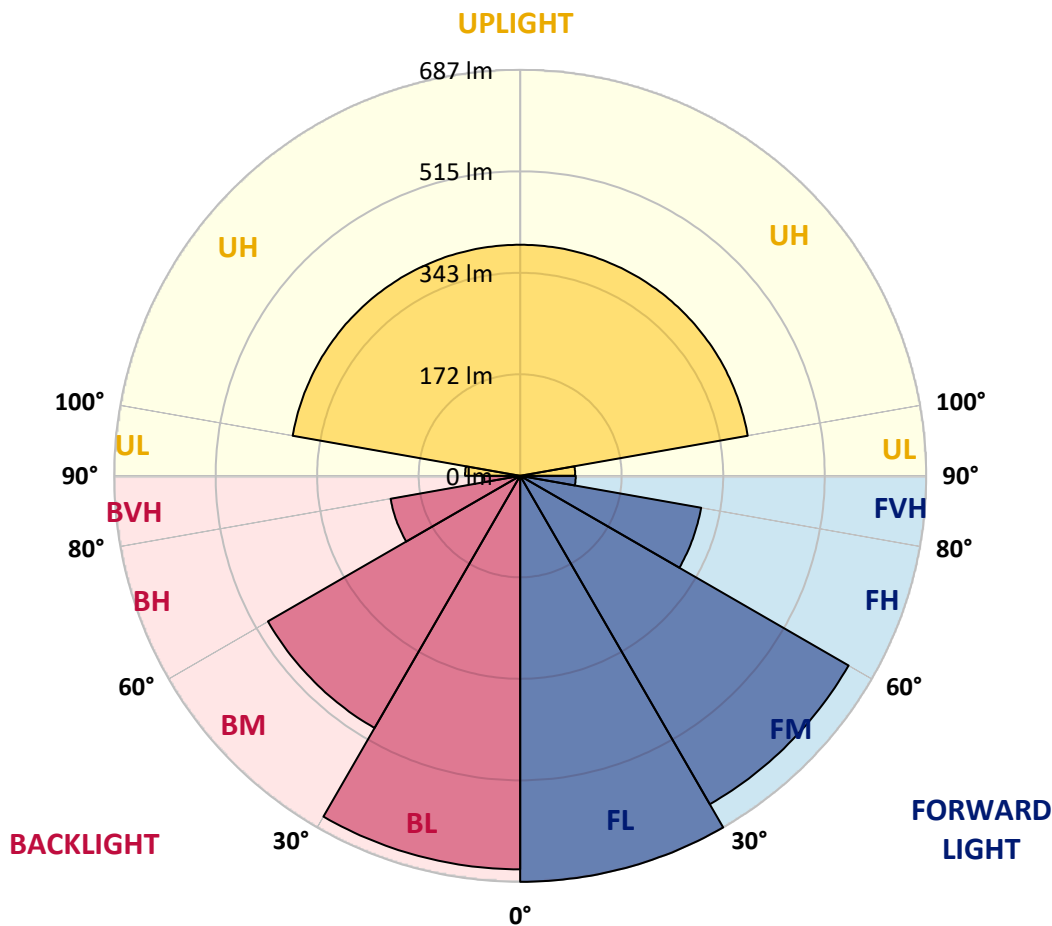
CATALOG NUMBER: CRTK2-C015-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	686.7	18.8			
FM	(30°-60°)	641.5	17.5			
FH	(60°-80°)	310.8	8.5			G0/660
FVH	(80°-90°)	94.0	2.6			G1/100
BL	(0°-30°)	665.6	18.2	B2/1000		
BM	(30°-60°)	492.6	13.5	B1/1000		
BH	(60°-80°)	222.6	6.1	B1/500		G1/500
BVH	(80°-90°)	61.2	1.7			G1/100
UL	(90°-100°)	93.2	2.5		U3/500	
UH	(100°-180°)	390.8	10.7		U3/500	

BUG Rating: B2-U3-G1

Type I Short



REPORT NUMBER: P691205

CATALOG NUMBER: CRTK2-C015-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5
2.5°	2594.1	2589.2	2625.0	2633.2	2636.4	2673.9	2724.4	2758.7	2820.6	2880.9	2905.3
5°	2089.0	2079.2	2144.4	2199.8	2266.6	2354.5	2419.7	2497.9	2590.8	2680.4	2722.8
7.5°	1722.3	1735.4	1828.2	1942.3	2049.8	2154.1	2234.0	2300.8	2354.5	2411.6	2423.0
10°	1549.6	1561.0	1652.3	1761.4	1860.8	1966.7	2035.2	2092.2	2126.4	2168.8	2183.5
12.5°	1521.9	1530.1	1592.0	1668.6	1743.5	1839.6	1926.0	1989.6	2028.7	2062.9	2066.1
15°	1549.6	1552.9	1590.3	1640.9	1706.0	1785.9	1885.3	1957.0	2001.0	2015.6	2012.4
17.5°	1595.2	1595.2	1613.2	1655.5	1717.4	1794.0	1888.5	1961.9	2007.5	2014.0	2001.0
20°	1614.8	1618.0	1629.4	1676.7	1732.1	1802.2	1896.7	1958.6	1994.4	1976.5	1953.7
22.5°	1468.1	1461.6	1492.6	1592.0	1715.8	1841.3	1930.9	2001.0	2020.5	1960.2	1911.3
25°	1187.9	1191.1	1210.7	1259.6	1355.7	1471.4	1670.2	1883.6	2031.9	2009.1	1935.8
27.5°	1036.3	1026.6	1031.4	1039.6	1026.6	1002.1	1024.9	1020.0	1016.8	1075.4	1082.0
30°	761.0	762.6	770.7	785.4	816.4	862.0	910.9	938.6	963.0	1008.6	1002.1
32.5°	756.1	757.7	762.6	775.6	791.9	822.9	853.8	865.2	891.3	928.8	917.4
35°	707.2	702.3	715.3	726.7	731.6	744.7	769.1	785.4	801.7	827.8	821.2
37.5°	627.3	629.0	655.0	673.0	677.8	695.8	718.6	731.6	749.5	772.4	761.0
40°	558.9	560.5	591.5	611.0	622.4	646.9	681.1	697.4	726.7	744.7	731.6
42.5°	480.7	487.2	508.4	531.2	537.7	552.4	575.2	596.4	633.9	658.3	650.1
45°	400.8	404.1	418.8	441.6	451.4	467.7	488.8	508.4	537.7	557.3	555.6
47.5°	353.6	356.8	369.9	389.4	409.0	430.2	453.0	472.5	500.2	516.5	510.0
50°	334.0	337.3	353.6	376.4	400.8	428.5	456.2	477.4	503.5	513.3	505.1
52.5°	337.3	337.3	360.1	389.4	423.7	461.1	495.4	521.4	542.6	549.1	531.2
55°	319.4	324.3	348.7	389.4	441.6	500.2	558.9	614.3	645.3	638.7	604.5
57.5°	291.7	296.6	314.5	358.5	413.9	483.9	567.0	635.5	673.0	677.8	643.6
60°	275.4	278.6	294.9	329.1	378.0	435.1	510.0	565.4	607.8	620.8	596.4
62.5°	260.7	264.0	277.0	303.1	338.9	382.9	425.3	461.1	495.4	508.4	498.6
65°	244.4	246.0	259.1	281.9	311.2	348.7	384.5	410.6	438.3	446.5	435.1
67.5°	228.1	229.8	241.2	262.3	290.0	324.3	352.0	381.3	409.0	415.5	407.4
70°	213.5	215.1	224.9	244.4	268.9	301.4	327.5	347.1	374.8	381.3	371.5
72.5°	198.8	200.4	210.2	228.1	250.9	280.3	303.1	322.6	345.4	347.1	338.9
75°	184.1	185.8	193.9	210.2	229.8	259.1	280.3	296.6	316.1	316.1	306.3
77.5°	167.8	171.1	177.6	192.3	210.2	237.9	257.5	273.7	290.0	288.4	278.6
80°	153.2	154.8	161.3	174.4	190.6	216.7	236.3	249.3	264.0	262.3	254.2
82.5°	136.9	138.5	143.4	156.4	171.1	195.5	215.1	228.1	241.2	237.9	229.8
85°	120.6	122.2	128.7	138.5	153.2	176.0	193.9	206.9	216.7	213.5	206.9
87.5°	107.5	107.5	112.4	122.2	135.2	156.4	172.7	185.8	193.9	192.3	185.8
90°	92.9	94.5	97.8	105.9	117.3	135.2	151.5	162.9	171.1	167.8	161.3
92.5°	81.5	81.5	84.7	92.9	102.7	118.9	133.6	143.4	149.9	148.3	143.4
95°	70.1	71.7	73.3	79.8	88.0	101.0	114.1	123.8	130.4	128.7	125.5
97.5°	61.9	63.5	65.2	68.4	76.6	84.7	96.1	104.3	110.8	109.2	105.9
100°	57.0	57.0	57.0	60.3	65.2	71.7	79.8	86.4	89.6	91.2	88.0
102.5°	52.1	52.1	53.8	53.8	57.0	60.3	65.2	70.1	71.7	71.7	71.7
105°	50.5	50.5	52.1	52.1	53.8	55.4	58.7	60.3	61.9	61.9	60.3
107.5°	50.5	50.5	50.5	50.5	52.1	53.8	55.4	57.0	57.0	57.0	55.4
110°	52.1	52.1	52.1	52.1	52.1	53.8	53.8	55.4	55.4	53.8	53.8

REPORT NUMBER: P691205

CATALOG NUMBER: CRTK2-C015-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	53.8	53.8	53.8	53.8	53.8	55.4	55.4	55.4	55.4	53.8	53.8
115°	57.0	57.0	57.0	58.7	58.7	58.7	58.7	58.7	58.7	57.0	55.4
117.5°	63.5	63.5	63.5	63.5	65.2	65.2	65.2	65.2	65.2	61.9	61.9
120°	71.7	70.1	71.7	73.3	75.0	75.0	75.0	75.0	75.0	71.7	70.1
122.5°	79.8	79.8	81.5	84.7	88.0	89.6	88.0	88.0	88.0	83.1	81.5
125°	89.6	89.6	94.5	101.0	105.9	107.5	105.9	105.9	105.9	101.0	97.8
127.5°	101.0	101.0	107.5	117.3	125.5	130.4	128.7	128.7	128.7	120.6	115.7
130°	112.4	112.4	122.2	135.2	148.3	151.5	153.2	154.8	154.8	145.0	138.5
132.5°	120.6	122.2	133.6	151.5	167.8	172.7	177.6	179.2	179.2	167.8	158.1
135°	128.7	130.4	145.0	166.2	184.1	195.5	200.4	202.1	203.7	190.6	179.2
137.5°	133.6	135.2	151.5	176.0	193.9	208.6	220.0	223.2	223.2	208.6	193.9
140°	133.6	135.2	153.2	176.0	195.5	213.5	226.5	233.0	233.0	218.3	205.3
142.5°	130.4	133.6	149.9	172.7	192.3	210.2	224.9	231.4	231.4	218.3	205.3
145°	123.8	125.5	141.8	161.3	180.9	202.1	218.3	224.9	224.9	211.8	198.8
147.5°	112.4	114.1	127.1	145.0	164.6	185.8	202.1	210.2	208.6	197.2	185.8
150°	97.8	97.8	109.2	123.8	143.4	162.9	179.2	187.4	187.4	176.0	166.2
152.5°	79.8	79.8	88.0	99.4	115.7	135.2	148.3	156.4	156.4	148.3	140.1
155°	61.9	61.9	68.4	76.6	89.6	104.3	114.1	122.2	122.2	115.7	109.2
157.5°	44.0	44.0	50.5	57.0	66.8	78.2	86.4	91.2	92.9	86.4	83.1
160°	29.3	29.3	32.6	37.5	45.6	53.8	58.7	63.5	65.2	60.3	58.7
162.5°	16.3	16.3	17.9	22.8	27.7	32.6	37.5	40.7	40.7	39.1	37.5
165°	4.9	4.9	6.5	8.1	11.4	14.7	16.3	17.9	19.6	19.6	17.9
167.5°	0.0	0.0	1.6	1.6	1.6	1.6	3.3	3.3	4.9	4.9	4.9
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: P691205

CATALOG NUMBER: CRTK2-C015-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5
2.5°	2955.8	3047.1	3146.5	3242.6	3359.9	3482.1	3594.6	3671.1	3711.9	3724.9	3724.9
5°	2755.4	2838.5	2911.8	3003.1	3144.8	3329.0	3532.6	3702.1	3798.2	3809.6	3811.3
7.5°	2442.5	2511.0	2587.6	2669.0	2794.5	2959.1	3227.9	3501.7	3658.1	3687.4	3676.0
10°	2186.7	2229.1	2274.7	2305.7	2393.7	2515.9	2698.4	2967.2	3159.5	3182.3	3198.6
12.5°	2067.8	2074.3	2061.2	2067.8	2097.1	2154.1	2243.7	2398.5	2524.0	2545.2	2556.6
15°	2007.5	1974.9	1922.7	1873.9	1847.8	1852.7	1872.2	1935.8	1957.0	1992.8	1976.5
17.5°	1979.8	1906.5	1825.0	1730.5	1671.8	1611.5	1578.9	1567.5	1559.4	1561.0	1575.7
20°	1909.7	1826.6	1696.3	1572.4	1477.9	1394.8	1324.7	1274.2	1246.5	1233.5	1243.3
22.5°	1836.4	1707.7	1554.5	1420.9	1285.6	1179.7	1099.9	1026.6	985.8	997.2	984.2
25°	1838.0	1645.7	1463.2	1287.3	1160.2	1020.0	892.9	816.4	749.5	762.6	780.5
27.5°	1158.5	1108.0	977.7	875.0	747.9	677.8	614.3	560.5	523.1	524.7	519.8
30°	982.6	930.4	865.2	783.8	687.6	606.2	532.8	470.9	435.1	425.3	423.7
32.5°	907.6	863.6	803.3	723.5	635.5	554.0	480.7	423.7	387.8	386.2	386.2
35°	808.2	767.5	717.0	648.5	573.6	498.6	430.2	381.3	352.0	352.0	350.3
37.5°	746.3	710.4	661.6	598.0	531.2	456.2	396.0	352.0	321.0	319.4	321.0
40°	713.7	676.2	629.0	568.7	501.9	430.2	373.1	327.5	304.7	303.1	301.4
42.5°	648.5	619.2	578.5	523.1	464.4	400.8	347.1	306.3	286.8	285.2	286.8
45°	550.8	529.6	501.9	461.1	412.2	358.5	311.2	280.3	260.7	260.7	260.7
47.5°	505.1	485.6	454.6	413.9	371.5	321.0	281.9	255.8	237.9	237.9	237.9
50°	493.7	469.3	428.5	382.9	337.3	293.3	257.5	231.4	218.3	216.7	218.3
52.5°	510.0	472.5	417.1	363.4	312.9	270.5	236.3	211.8	198.8	198.8	198.8
55°	568.7	500.2	426.9	358.5	298.2	250.9	216.7	192.3	179.2	177.6	179.2
57.5°	607.8	521.4	430.2	353.6	288.4	237.9	200.4	174.4	161.3	159.7	161.3
60°	573.6	503.5	415.5	340.6	280.3	228.1	189.0	162.9	149.9	148.3	148.3
62.5°	475.8	435.1	371.5	308.0	259.1	213.5	177.6	153.2	140.1	138.5	140.1
65°	422.0	386.2	330.8	280.3	237.9	198.8	167.8	146.7	133.6	133.6	133.6
67.5°	392.7	360.1	308.0	259.1	220.0	184.1	154.8	135.2	123.8	123.8	123.8
70°	358.5	325.9	278.6	234.6	198.8	167.8	141.8	122.2	112.4	110.8	112.4
72.5°	329.1	296.6	252.6	211.8	179.2	151.5	128.7	110.8	102.7	101.0	102.7
75°	296.6	265.6	223.2	187.4	159.7	135.2	115.7	99.4	92.9	91.2	91.2
77.5°	268.9	239.5	200.4	167.8	143.4	120.6	102.7	91.2	84.7	83.1	83.1
80°	244.4	216.7	179.2	149.9	127.1	107.5	92.9	81.5	75.0	75.0	75.0
82.5°	218.3	193.9	159.7	132.0	112.4	96.1	81.5	71.7	66.8	66.8	66.8
85°	197.2	172.7	140.1	117.3	97.8	83.1	71.7	63.5	58.7	58.7	58.7
87.5°	174.4	153.2	123.8	102.7	86.4	73.3	61.9	53.8	52.1	50.5	50.5
90°	151.5	132.0	105.9	88.0	73.3	61.9	52.1	45.6	44.0	42.4	42.4
92.5°	135.2	117.3	96.1	79.8	66.8	55.4	48.9	42.4	40.7	40.7	39.1
95°	117.3	102.7	84.7	71.7	60.3	52.1	45.6	40.7	39.1	39.1	37.5
97.5°	101.0	88.0	75.0	65.2	55.4	48.9	42.4	39.1	35.8	35.8	35.8
100°	84.7	75.0	65.2	55.4	50.5	44.0	39.1	35.8	34.2	32.6	32.6
102.5°	68.4	61.9	53.8	48.9	42.4	37.5	34.2	31.0	29.3	29.3	29.3
105°	58.7	53.8	48.9	44.0	39.1	34.2	31.0	27.7	26.1	26.1	26.1
107.5°	53.8	50.5	45.6	40.7	37.5	32.6	29.3	24.4	22.8	24.4	24.4
110°	52.1	48.9	44.0	40.7	35.8	32.6	29.3	22.8	21.2	22.8	22.8

REPORT NUMBER: P691205

CATALOG NUMBER: CRTK2-C015-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	52.1	48.9	45.6	40.7	37.5	32.6	29.3	22.8	21.2	21.2	21.2
115°	53.8	52.1	47.3	44.0	39.1	34.2	29.3	22.8	21.2	21.2	21.2
117.5°	60.3	57.0	52.1	47.3	42.4	35.8	31.0	22.8	21.2	21.2	21.2
120°	66.8	63.5	58.7	52.1	45.6	39.1	32.6	22.8	19.6	21.2	21.2
122.5°	78.2	73.3	66.8	58.7	50.5	42.4	32.6	24.4	17.9	21.2	21.2
125°	92.9	86.4	76.6	65.2	55.4	45.6	34.2	24.4	19.6	21.2	21.2
127.5°	109.2	101.0	88.0	73.3	60.3	47.3	35.8	24.4	19.6	19.6	21.2
130°	130.4	117.3	99.4	81.5	65.2	50.5	35.8	24.4	19.6	19.6	19.6
132.5°	148.3	132.0	109.2	88.0	68.4	52.1	35.8	24.4	17.9	17.9	17.9
135°	166.2	145.0	117.3	92.9	71.7	52.1	35.8	22.8	17.9	17.9	17.9
137.5°	180.9	153.2	123.8	94.5	71.7	50.5	34.2	21.2	16.3	16.3	16.3
140°	189.0	158.1	125.5	94.5	68.4	48.9	31.0	19.6	14.7	14.7	14.7
142.5°	189.0	156.4	123.8	91.2	65.2	45.6	27.7	16.3	13.0	13.0	13.0
145°	182.5	149.9	117.3	86.4	60.3	40.7	24.4	14.7	9.8	9.8	11.4
147.5°	171.1	138.5	107.5	78.2	53.8	34.2	21.2	11.4	8.1	8.1	8.1
150°	151.5	122.2	92.9	68.4	45.6	29.3	17.9	9.8	6.5	6.5	6.5
152.5°	127.1	101.0	78.2	57.0	37.5	22.8	13.0	8.1	4.9	4.9	4.9
155°	101.0	79.8	61.9	44.0	27.7	17.9	9.8	6.5	4.9	4.9	4.9
157.5°	75.0	60.3	45.6	32.6	21.2	13.0	8.1	4.9	3.3	3.3	3.3
160°	52.1	42.4	31.0	21.2	13.0	8.1	4.9	3.3	1.6	1.6	1.6
162.5°	34.2	26.1	19.6	13.0	8.1	4.9	3.3	1.6	1.6	1.6	1.6
165°	16.3	13.0	9.8	6.5	3.3	3.3	1.6	1.6	0.0	0.0	0.0
167.5°	4.9	3.3	1.6	1.6	1.6	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)