

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: P691345

Luminaire Tested: **CRTK2-C015-D-U-T3-8027-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691345
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-C015-D-U-T3-8027-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K 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: 2949 lumens
Efficiency: N/A
Efficacy: 98.6 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): 29.9
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



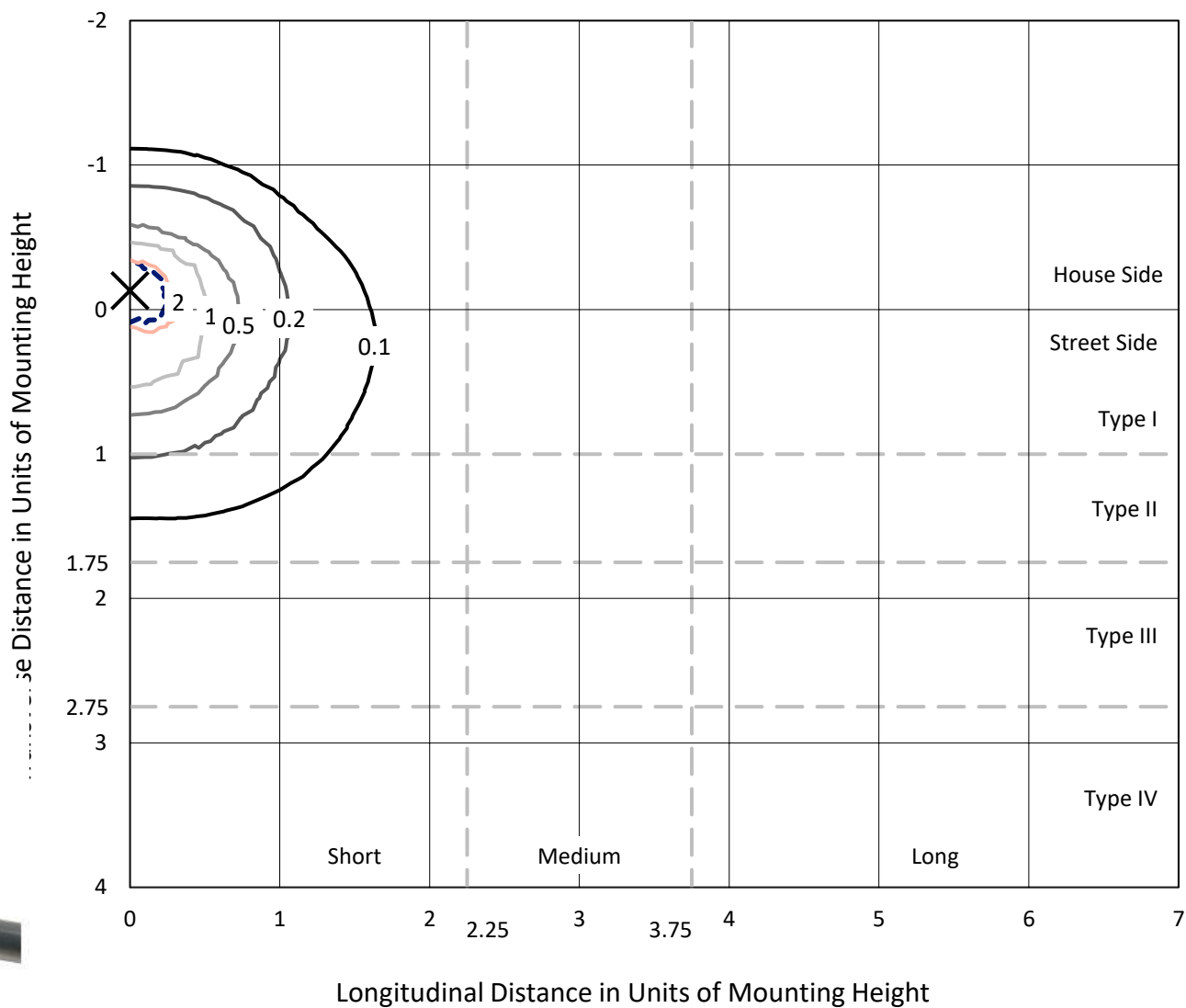
REPORT NUMBER: P691345

CATALOG NUMBER: CRTK2-C015-D-U-T3-8027-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

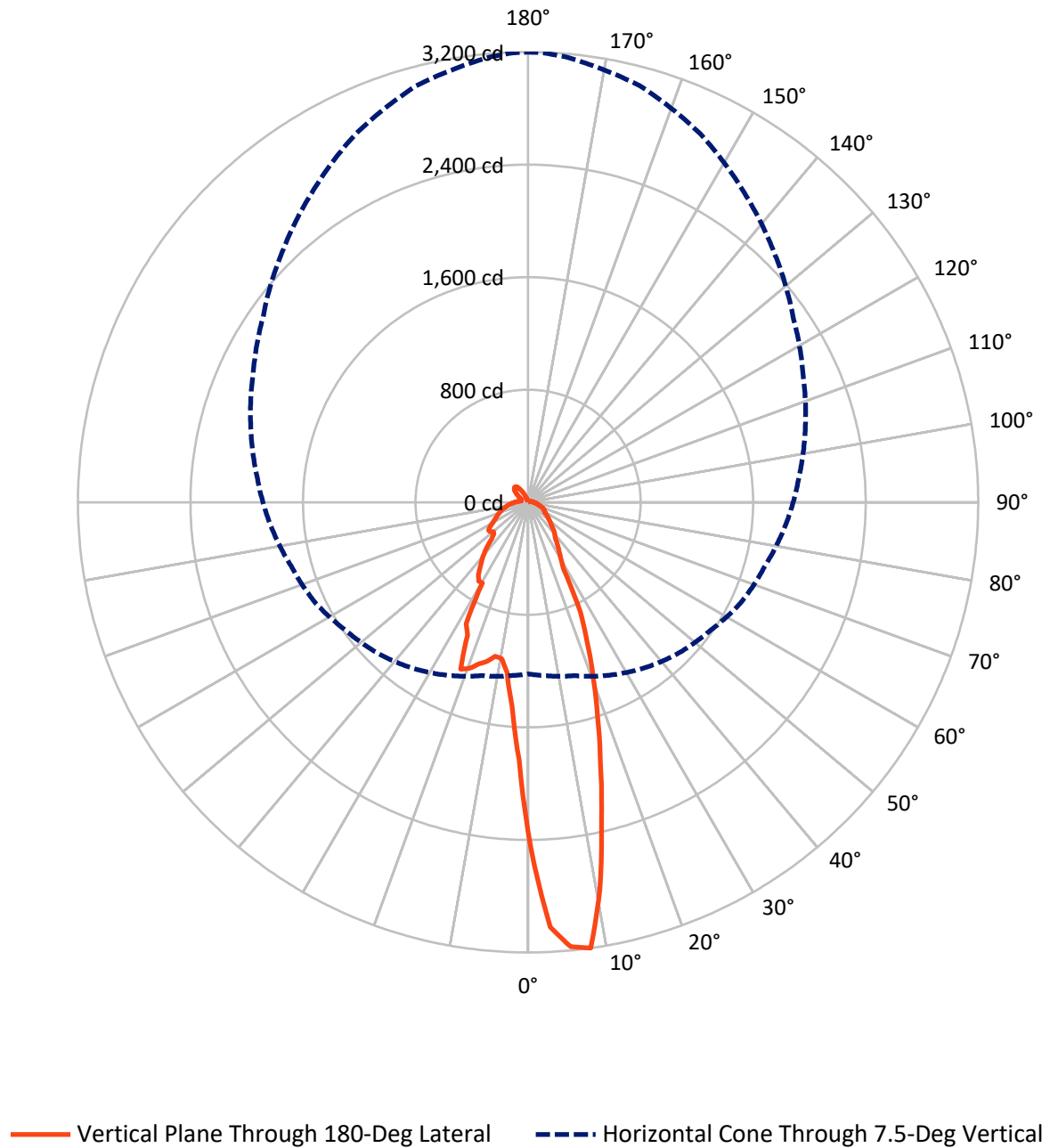


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type I - Short - N/A

REPORT NUMBER: P691345

CATALOG NUMBER: CRTK2-C015-D-U-T3-8027-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691345

CATALOG NUMBER: CRTK2-C015-D-U-T3-8027-RMARROA5-HSS-CRTK2

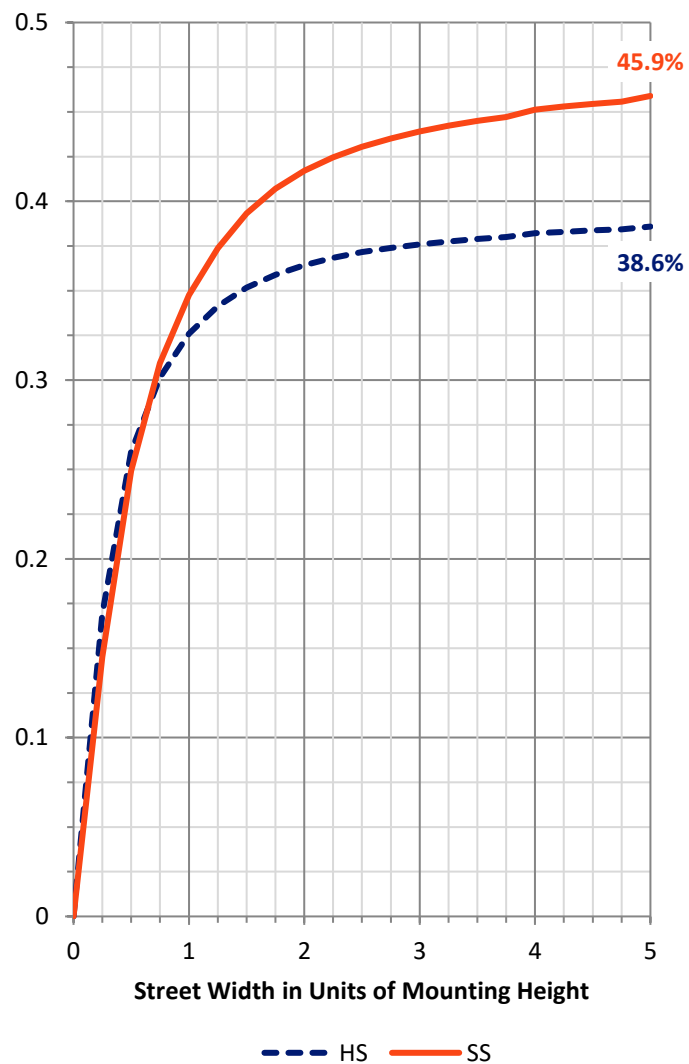
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1167.6	121.8	1289.3
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1392.3	267.4	1659.7
	% Fixture	47.2	9.1	56.3
Total	Lumens	2559.9	389.1	2949.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	6.7
10°-20°	422.7	14.3
20°-30°	466.7	15.8
30°-40°	338.5	11.5
40°-50°	285.2	9.7
50°-60°	291.2	9.9
60°-70°	248.1	8.4
70°-80°	185.0	6.3
80°-90°	124.9	4.2
90°-100°	74.6	2.5
100°-110°	42.9	1.5
110°-120°	40.1	1.4
120°-130°	58.5	2.0
130°-140°	79.4	2.7
140°-150°	64.7	2.2
150°-160°	25.8	0.9
160°-170°	3.1	0.1
170°-180°	0.0	0.0
0°-90°	2559.9	86.8
0°-180°	2949.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691345

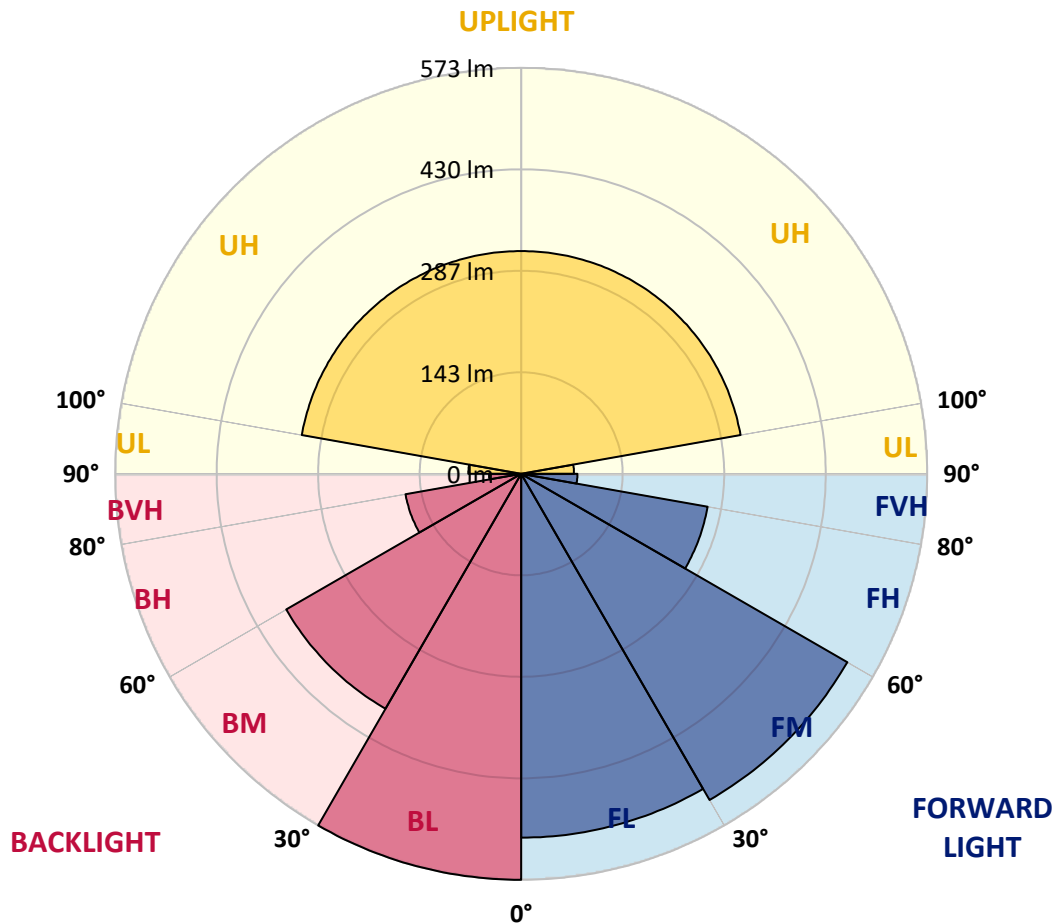
CATALOG NUMBER: CRTK2-C015-D-U-T3-8027-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.7	17.4			
FM	(30°-60°)	531.8	18.0			
FH	(60°-80°)	267.3	9.1			G0/660
FVH	(80°-90°)	79.4	2.7			G1/100
BL	(0°-30°)	573.3	19.4	B2/1000		
BM	(30°-60°)	383.0	13.0	B1/1000		
BH	(60°-80°)	165.8	5.6	B1/500		G1/500
BVH	(80°-90°)	45.4	1.5			G1/100
UL	(90°-100°)	74.6	2.5		U3/500	
UH	(100°-180°)	314.5	10.7		U3/500	

BUG Rating: B2-U3-G1

Type I Short



REPORT NUMBER: P691345

CATALOG NUMBER: CRTK2-C015-D-U-T3-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9
2.5°	1830.1	1872.6	1876.5	1922.8	1957.6	1989.7	2012.9	2079.8	2148.0	2212.4	2249.7
5°	1453.0	1473.6	1511.0	1561.2	1625.5	1675.7	1747.8	1841.7	1931.8	2045.1	2100.4
7.5°	1220.1	1235.5	1275.4	1356.5	1437.6	1514.8	1584.3	1674.4	1743.9	1837.9	1884.2
10°	1127.4	1136.4	1169.9	1226.5	1303.8	1368.1	1428.6	1496.8	1558.6	1644.8	1678.3
12.5°	1118.4	1122.3	1149.3	1189.2	1234.3	1287.0	1337.2	1395.1	1460.8	1529.0	1554.7
15°	1167.3	1164.8	1173.8	1196.9	1222.7	1263.9	1310.2	1363.0	1426.0	1476.2	1496.8
17.5°	1202.1	1200.8	1217.5	1227.8	1252.3	1276.7	1323.1	1364.2	1426.0	1465.9	1477.5
20°	1252.3	1254.8	1260.0	1279.3	1289.6	1306.3	1334.6	1359.1	1411.9	1435.0	1432.5
22.5°	1279.3	1278.0	1299.9	1344.9	1356.5	1365.5	1370.7	1381.0	1410.6	1409.3	1390.0
25°	1037.3	1039.9	1045.1	1083.7	1132.6	1212.4	1278.0	1381.0	1436.3	1415.7	1374.5
27.5°	969.1	961.4	934.4	912.5	846.9	803.1	761.9	743.9	752.9	768.4	810.8
30°	660.2	661.5	664.1	668.0	674.4	691.1	702.7	704.0	713.0	738.7	729.7
32.5°	661.5	662.8	659.0	662.8	660.2	666.7	665.4	660.2	668.0	691.1	682.1
35°	621.6	619.1	621.6	622.9	608.8	603.6	602.3	598.5	603.6	615.2	607.5
37.5°	559.9	558.6	570.2	576.6	565.0	565.0	562.4	557.3	561.1	571.4	561.1
40°	505.8	507.1	523.8	534.1	530.3	534.1	538.0	536.7	545.7	549.6	536.7
42.5°	446.6	444.0	460.8	468.5	460.8	463.3	462.0	463.3	481.3	489.1	480.1
45°	373.2	377.1	384.8	395.1	393.8	397.7	396.4	399.0	410.6	414.4	408.0
47.5°	332.1	334.6	343.6	355.2	361.7	368.1	368.1	369.4	377.1	378.4	371.9
50°	323.0	325.6	337.2	350.1	360.4	368.1	371.9	370.7	374.5	371.9	362.9
52.5°	338.5	338.5	356.5	371.9	384.8	399.0	404.1	399.0	399.0	388.7	374.5
55°	344.9	346.2	368.1	395.1	419.6	445.3	462.0	460.8	459.5	442.7	417.0
57.5°	324.3	328.2	350.1	381.0	414.4	455.6	480.1	483.9	483.9	462.0	433.7
60°	294.7	297.3	314.0	339.8	373.2	404.1	429.9	432.4	440.2	428.6	402.8
62.5°	270.3	272.8	287.0	306.3	330.8	350.1	357.8	357.8	361.7	357.8	339.8
65°	252.3	253.5	265.1	281.9	298.6	314.0	321.8	319.2	324.3	319.2	305.0
67.5°	235.5	235.5	245.8	258.7	274.1	292.2	297.3	299.9	305.0	298.6	285.7
70°	218.8	220.1	230.4	240.7	254.8	267.7	272.8	274.1	280.6	272.8	263.8
72.5°	204.6	204.6	213.6	223.9	234.2	247.1	251.0	253.5	257.4	249.7	242.0
75°	187.9	189.2	196.9	205.9	214.9	227.8	231.7	233.0	236.8	227.8	220.1
77.5°	172.5	173.7	180.2	187.9	196.9	207.2	211.1	213.6	214.9	207.2	199.5
80°	157.0	158.3	163.5	171.2	178.9	189.2	191.8	193.1	195.6	186.6	181.5
82.5°	142.9	142.9	146.7	153.2	160.9	169.9	173.7	175.0	176.3	168.6	163.5
85°	126.1	126.1	130.0	136.4	142.9	151.9	155.7	157.0	157.0	150.6	145.4
87.5°	112.0	112.0	114.5	119.7	124.8	133.9	137.7	140.3	139.0	133.9	128.7
90°	97.8	97.8	100.4	104.2	109.4	117.1	121.0	122.3	122.3	115.8	112.0
92.5°	84.9	84.9	87.5	91.4	95.2	101.7	105.5	108.1	108.1	103.0	99.1
95°	73.4	73.4	74.6	78.5	82.4	87.5	90.1	92.7	92.7	90.1	86.2
97.5°	63.1	63.1	64.4	66.9	69.5	73.4	75.9	78.5	78.5	77.2	74.6
100°	55.3	55.3	55.3	56.6	59.2	60.5	63.1	65.6	65.6	64.4	63.1
102.5°	50.2	50.2	50.2	50.2	50.2	51.5	51.5	52.8	52.8	52.8	51.5
105°	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	46.3	45.0	43.8
107.5°	47.6	46.3	46.3	46.3	46.3	45.0	45.0	45.0	43.8	42.5	41.2
110°	47.6	47.6	47.6	47.6	46.3	45.0	45.0	43.8	42.5	41.2	39.9

REPORT NUMBER: P691345

CATALOG NUMBER: CRTK2-C015-D-U-T3-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	50.2	50.2	50.2	48.9	47.6	47.6	46.3	45.0	43.8	41.2	39.9
115°	54.1	54.1	54.1	54.1	52.8	50.2	48.9	47.6	45.0	43.8	42.5
117.5°	60.5	60.5	60.5	60.5	57.9	56.6	54.1	52.8	50.2	47.6	46.3
120°	68.2	68.2	69.5	69.5	68.2	65.6	61.8	60.5	57.9	54.1	51.5
122.5°	79.8	78.5	81.1	81.1	81.1	78.5	73.4	70.8	68.2	63.1	60.5
125°	91.4	91.4	94.0	96.5	97.8	94.0	88.8	84.9	81.1	74.6	70.8
127.5°	104.2	104.2	109.4	114.5	117.1	113.3	106.8	103.0	97.8	88.8	83.7
130°	117.1	117.1	124.8	132.6	136.4	133.9	127.4	122.3	115.8	104.2	97.8
132.5°	128.7	128.7	137.7	148.0	153.2	151.9	145.4	140.3	135.1	121.0	112.0
135°	137.7	139.0	150.6	162.2	168.6	169.9	163.5	157.0	150.6	135.1	124.8
137.5°	142.9	145.4	157.0	171.2	177.6	181.5	177.6	171.2	163.5	146.7	135.1
140°	144.1	145.4	158.3	172.5	178.9	184.0	184.0	176.3	169.9	153.2	140.3
142.5°	140.3	141.6	154.4	167.3	173.7	180.2	181.5	175.0	168.6	153.2	140.3
145°	131.3	133.9	145.4	155.7	164.7	171.2	173.7	169.9	162.2	148.0	136.4
147.5°	119.7	121.0	131.3	140.3	149.3	157.0	160.9	157.0	150.6	137.7	127.4
150°	101.7	103.0	110.7	118.4	128.7	136.4	141.6	139.0	133.9	123.6	113.3
152.5°	82.4	82.4	88.8	95.2	104.2	112.0	117.1	115.8	112.0	103.0	95.2
155°	63.1	63.1	66.9	72.1	79.8	84.9	90.1	90.1	87.5	81.1	74.6
157.5°	45.0	45.0	48.9	52.8	57.9	63.1	66.9	66.9	65.6	60.5	56.6
160°	29.6	29.6	32.2	34.7	39.9	42.5	46.3	46.3	45.0	42.5	39.9
162.5°	15.4	15.4	18.0	19.3	23.2	25.7	28.3	29.6	29.6	27.0	25.7
165°	5.1	5.1	5.1	6.4	9.0	11.6	12.9	14.2	14.2	12.9	12.9
167.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.6	3.9	3.9	3.9	3.9
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: P691345

CATALOG NUMBER: CRTK2-C015-D-U-T3-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9	2465.9
2.5°	2289.6	2406.7	2507.1	2612.7	2729.8	2828.9	2929.3	2984.6	3032.2	3023.2	3023.2
5°	2154.5	2271.6	2393.9	2522.6	2680.9	2843.0	2997.5	3108.2	3166.1	3175.1	3173.8
7.5°	1930.5	2039.9	2155.8	2298.6	2483.9	2682.2	2891.9	3065.7	3175.1	3195.7	3199.5
10°	1709.2	1791.5	1889.3	1987.2	2153.2	2334.7	2522.6	2661.6	2768.4	2783.8	2801.8
12.5°	1576.6	1621.6	1684.7	1752.9	1861.0	1993.6	2148.0	2227.8	2296.0	2303.8	2320.5
15°	1508.4	1530.3	1545.7	1570.2	1634.5	1716.9	1787.7	1866.2	1894.5	1913.8	1922.8
17.5°	1481.4	1478.8	1463.3	1463.3	1468.5	1499.4	1544.4	1571.5	1589.5	1598.5	1601.1
20°	1426.0	1402.9	1372.0	1330.8	1308.9	1298.6	1310.2	1316.6	1311.5	1305.0	1316.6
22.5°	1368.1	1319.2	1263.9	1216.2	1159.6	1124.9	1091.4	1079.8	1065.7	1074.7	1074.7
25°	1350.1	1263.9	1175.0	1095.3	1010.3	952.4	890.6	868.7	846.9	864.9	864.9
27.5°	798.0	798.0	747.8	680.8	607.5	576.6	552.1	538.0	529.0	532.8	532.8
30°	714.3	680.8	649.9	607.5	550.8	513.5	481.3	462.0	453.0	450.5	453.0
32.5°	662.8	637.1	599.8	557.3	507.1	465.9	429.9	410.6	396.4	399.0	400.3
35°	593.3	566.3	534.1	494.2	451.7	413.1	381.0	361.7	348.8	348.8	350.1
37.5°	549.6	522.5	491.6	455.6	414.4	377.1	347.5	324.3	312.7	311.5	311.5
40°	522.5	495.5	467.2	431.2	392.5	353.9	324.3	303.7	289.6	289.6	290.9
42.5°	473.6	447.9	423.4	391.3	356.5	323.0	294.7	276.7	262.6	260.0	262.6
45°	399.0	384.8	365.5	343.6	314.0	287.0	261.3	245.8	234.2	234.2	233.0
47.5°	365.5	351.4	330.8	308.9	284.4	257.4	236.8	222.7	212.4	212.4	212.4
50°	352.6	337.2	311.5	287.0	258.7	235.5	217.5	203.3	195.6	195.6	194.3
52.5°	359.1	334.6	301.2	266.4	239.4	216.2	198.2	184.0	177.6	177.6	176.3
55°	393.8	350.1	301.2	258.7	226.5	200.8	182.8	167.3	160.9	160.9	160.9
57.5°	408.0	359.1	298.6	251.0	214.9	187.9	166.0	151.9	145.4	145.4	144.1
60°	382.2	341.1	285.7	240.7	205.9	178.9	158.3	144.1	136.4	136.4	135.1
62.5°	325.6	296.0	253.5	220.1	193.1	168.6	150.6	136.4	130.0	130.0	130.0
65°	292.2	266.4	233.0	203.3	178.9	158.3	141.6	130.0	123.6	123.6	123.6
67.5°	272.8	251.0	217.5	189.2	164.7	145.4	130.0	119.7	114.5	113.3	114.5
70°	252.3	229.1	198.2	171.2	149.3	131.3	117.1	106.8	101.7	101.7	101.7
72.5°	230.4	208.5	178.9	154.4	132.6	118.4	104.2	95.2	90.1	90.1	88.8
75°	209.8	187.9	159.6	136.4	118.4	104.2	92.7	84.9	79.8	79.8	79.8
77.5°	190.5	169.9	142.9	122.3	105.5	94.0	82.4	75.9	72.1	72.1	70.8
80°	172.5	153.2	127.4	109.4	94.0	83.7	73.4	68.2	64.4	64.4	64.4
82.5°	154.4	136.4	113.3	96.5	83.7	73.4	65.6	60.5	57.9	56.6	57.9
85°	137.7	121.0	100.4	84.9	73.4	64.4	57.9	52.8	50.2	50.2	50.2
87.5°	122.3	106.8	88.8	74.6	64.4	56.6	50.2	46.3	45.0	43.8	43.8
90°	105.5	91.4	75.9	64.4	55.3	48.9	42.5	39.9	37.3	37.3	37.3
92.5°	94.0	82.4	68.2	57.9	50.2	45.0	39.9	37.3	34.7	34.7	34.7
95°	82.4	72.1	60.5	52.8	46.3	41.2	37.3	34.7	33.5	33.5	33.5
97.5°	70.8	63.1	54.1	47.6	42.5	38.6	34.7	32.2	30.9	30.9	30.9
100°	59.2	54.1	47.6	42.5	38.6	34.7	30.9	29.6	28.3	28.3	28.3
102.5°	48.9	45.0	39.9	36.0	32.2	29.6	27.0	25.7	24.5	24.5	24.5
105°	42.5	39.9	36.0	32.2	29.6	27.0	24.5	21.9	21.9	21.9	21.9
107.5°	39.9	36.0	33.5	30.9	28.3	24.5	23.2	20.6	19.3	19.3	19.3
110°	38.6	36.0	33.5	29.6	27.0	24.5	21.9	19.3	18.0	18.0	18.0

REPORT NUMBER: P691345

CATALOG NUMBER: CRTK2-C015-D-U-T3-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	38.6	36.0	33.5	30.9	28.3	24.5	23.2	18.0	16.7	16.7	16.7
115°	41.2	38.6	34.7	32.2	28.3	25.7	23.2	18.0	16.7	16.7	16.7
117.5°	43.8	41.2	37.3	34.7	30.9	27.0	23.2	18.0	16.7	16.7	16.7
120°	50.2	46.3	41.2	37.3	33.5	28.3	24.5	18.0	15.4	16.7	16.7
122.5°	56.6	52.8	46.3	41.2	36.0	30.9	24.5	18.0	15.4	16.7	16.7
125°	66.9	60.5	52.8	46.3	38.6	32.2	25.7	18.0	14.2	15.4	16.7
127.5°	78.5	70.8	60.5	51.5	42.5	33.5	25.7	18.0	14.2	15.4	15.4
130°	91.4	81.1	68.2	55.3	45.0	34.7	25.7	18.0	14.2	15.4	15.4
132.5°	104.2	90.1	74.6	60.5	47.6	36.0	25.7	16.7	14.2	14.2	14.2
135°	114.5	97.8	79.8	63.1	48.9	36.0	24.5	16.7	12.9	12.9	12.9
137.5°	123.6	104.2	83.7	64.4	48.9	34.7	23.2	15.4	11.6	11.6	11.6
140°	128.7	106.8	84.9	63.1	46.3	33.5	21.9	14.2	10.3	10.3	10.3
142.5°	128.7	105.5	82.4	61.8	43.8	30.9	19.3	11.6	9.0	9.0	9.0
145°	123.6	100.4	78.5	57.9	39.9	27.0	16.7	10.3	7.7	7.7	7.7
147.5°	115.8	92.7	72.1	52.8	36.0	23.2	14.2	9.0	6.4	6.4	6.4
150°	103.0	82.4	63.1	45.0	30.9	19.3	11.6	7.7	5.1	5.1	5.1
152.5°	86.2	68.2	52.8	37.3	25.7	15.4	10.3	5.1	3.9	3.9	3.9
155°	68.2	54.1	41.2	29.6	19.3	11.6	7.7	5.1	2.6	2.6	2.6
157.5°	51.5	39.9	30.9	21.9	14.2	9.0	5.1	3.9	2.6	2.6	2.6
160°	36.0	28.3	20.6	14.2	9.0	6.4	3.9	2.6	1.3	1.3	1.3
162.5°	23.2	18.0	12.9	9.0	5.1	3.9	2.6	1.3	1.3	1.3	0.0
165°	11.6	9.0	6.4	3.9	2.6	1.3	1.3	1.3	0.0	0.0	0.0
167.5°	2.6	2.6	2.6	1.3	1.3	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)