

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: P690929

Luminaire Tested: **CRTK2-C01-D-U-T2-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690929
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-C01-D-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: 6475 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

Input Watts (W): 61
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



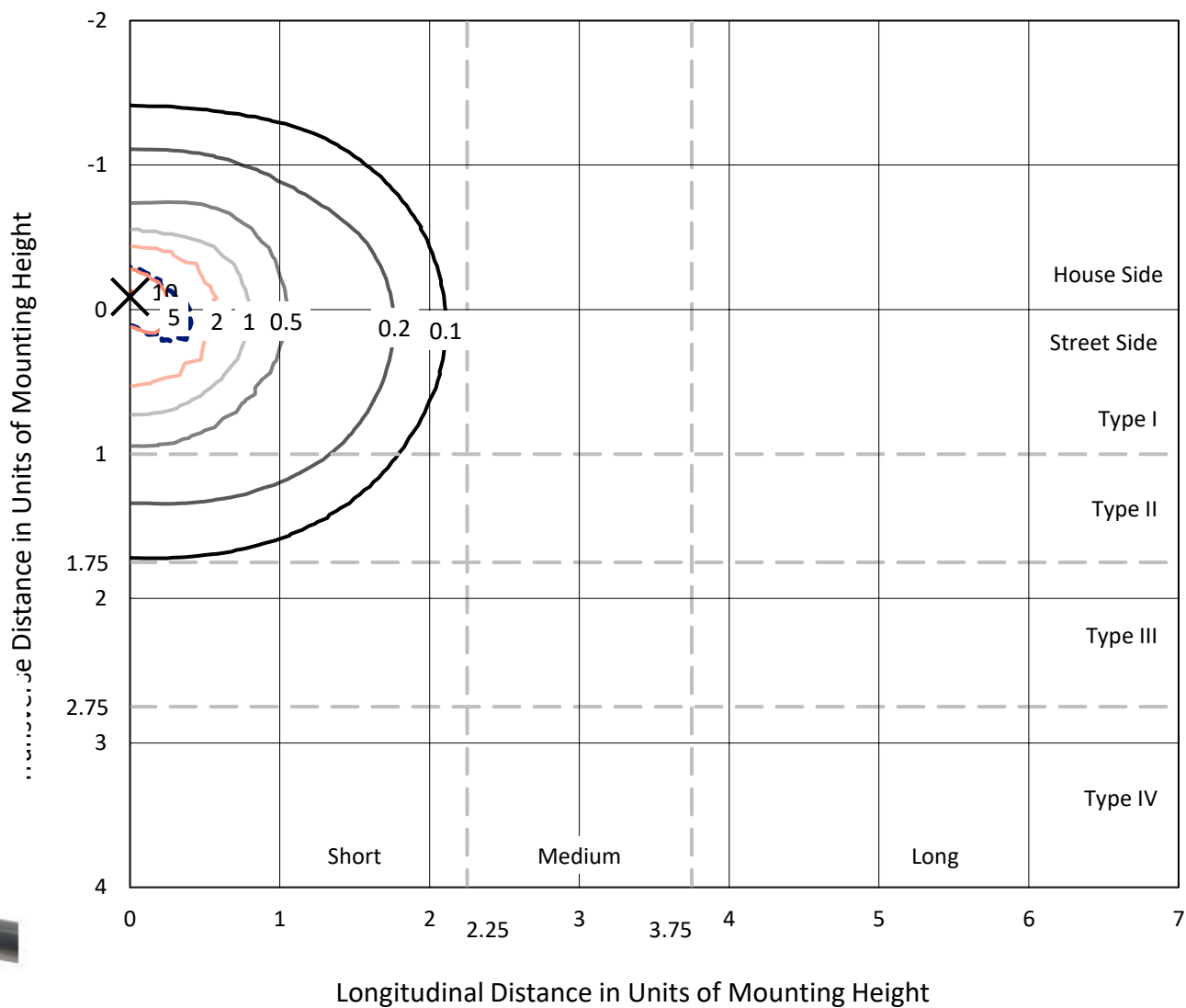
REPORT NUMBER: P690929

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



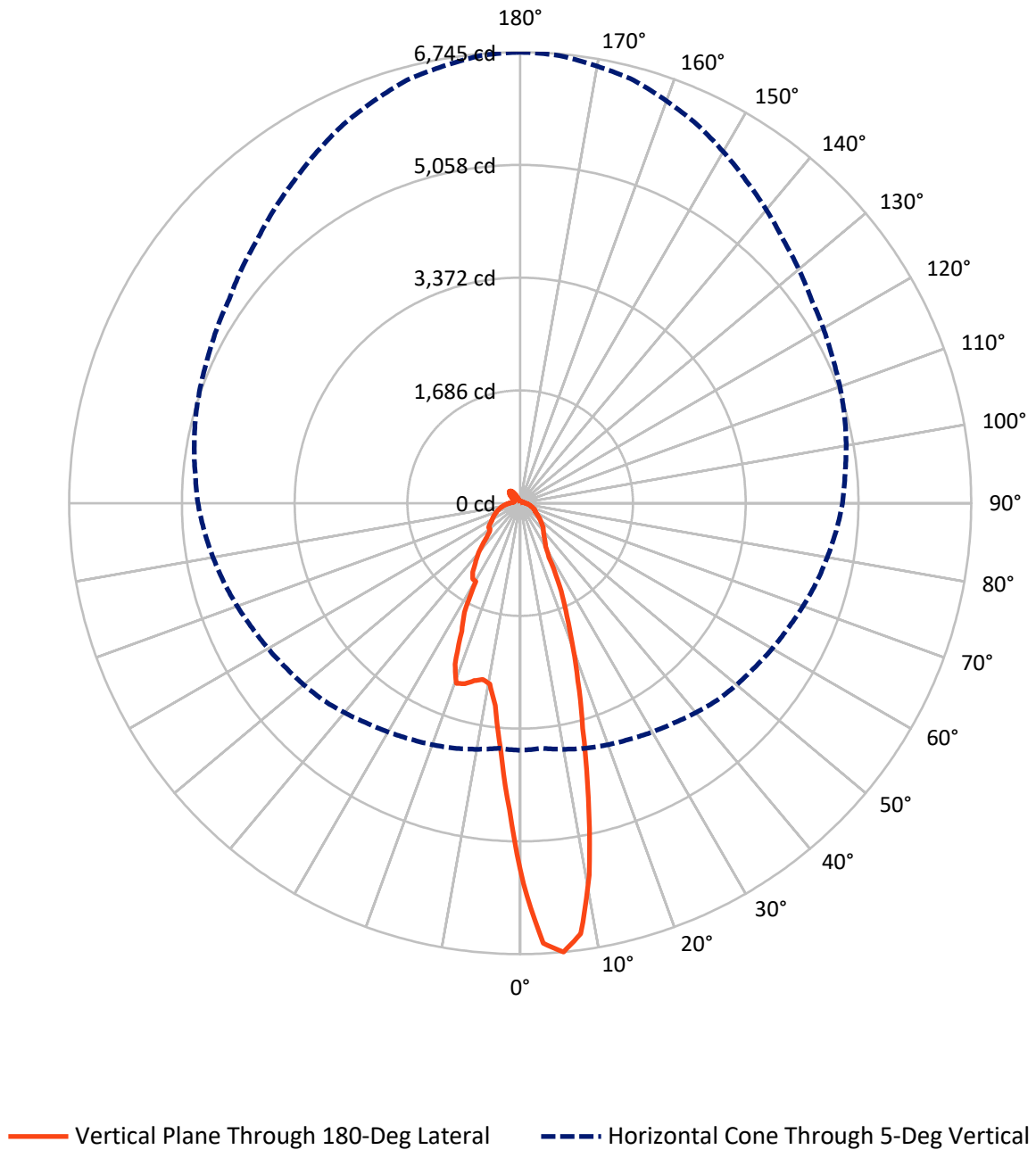
Based on 25 foot mounting height. Maximum calculated value = 10.2 fc

Type I - Short - N/A

REPORT NUMBER: P690929

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P690929

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5-HSS-CRTK2

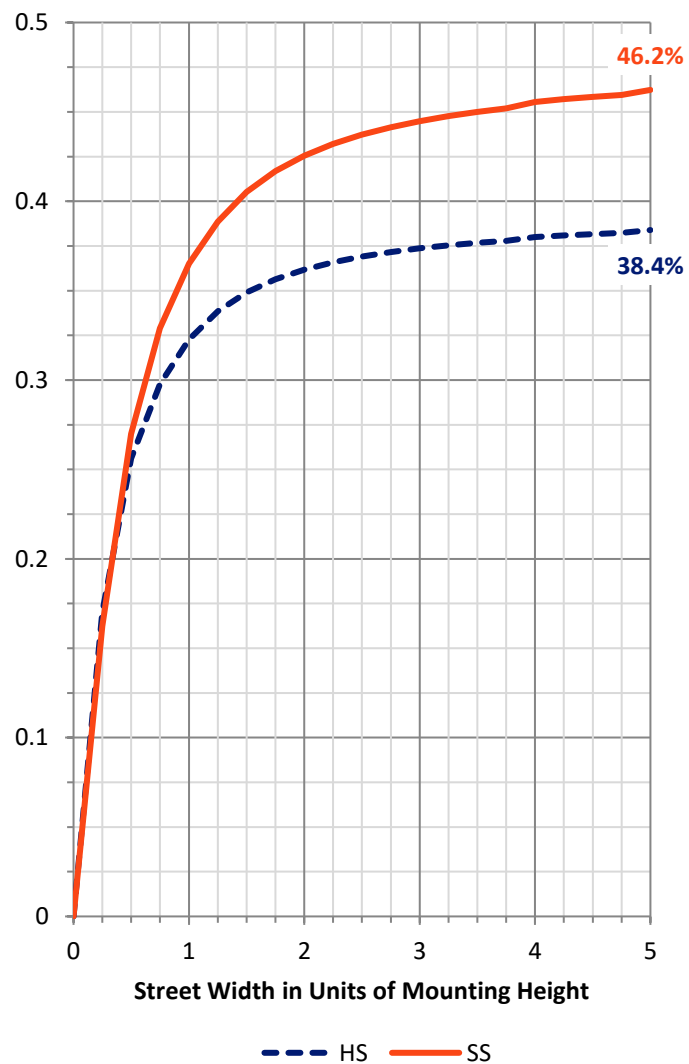
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2551.7	299.6	2851.3
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	3066.8	556.9	3623.7
	% Fixture	47.4	8.6	56.0
Total	Lumens	5618.5	856.5	6475.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.6	6.8
10°-20°	935.0	14.4
20°-30°	1017.5	15.7
30°-40°	744.8	11.5
40°-50°	626.2	9.7
50°-60°	635.9	9.8
60°-70°	540.6	8.3
70°-80°	403.4	6.2
80°-90°	274.6	4.2
90°-100°	164.9	2.5
100°-110°	94.5	1.5
110°-120°	87.0	1.3
120°-130°	126.4	2.0
130°-140°	173.9	2.7
140°-150°	143.9	2.2
150°-160°	58.6	0.9
160°-170°	7.3	0.1
170°-180°	0.0	0.0
0°-90°	5618.5	86.8
0°-180°	6475.0	100.0

Coefficient of Utilization



REPORT NUMBER: P690929

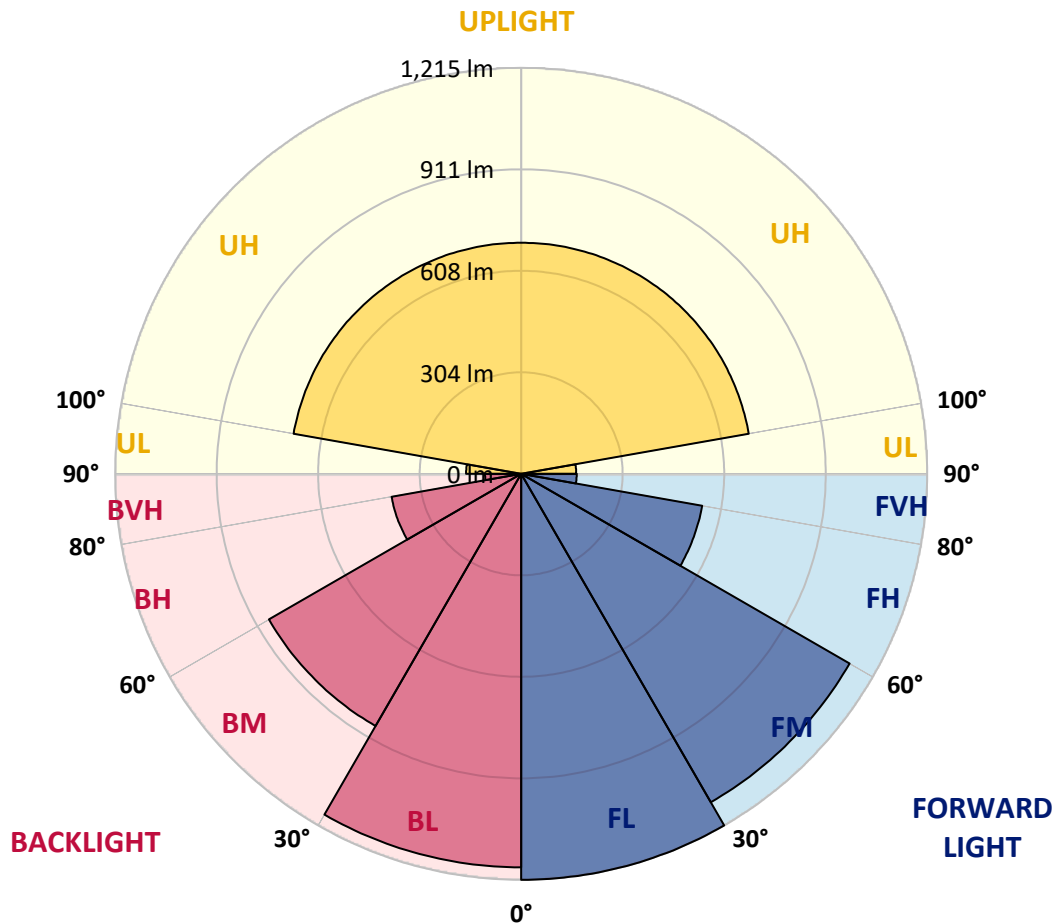
CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1215.3	18.8			
FM	(30°-60°)	1135.2	17.5			
FH	(60°-80°)	550.1	8.5			G0/660
FVH	(80°-90°)	166.3	2.6			G2/225
BL	(0°-30°)	1177.8	18.2	B3/2500		
BM	(30°-60°)	871.8	13.5	B1/1000		
BH	(60°-80°)	393.9	6.1	B1/500		G1/500
BVH	(80°-90°)	108.3	1.7			G2/225
UL	(90°-100°)	164.9	2.5		U3/500	
UH	(100°-180°)	691.6	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short



REPORT NUMBER: P690929

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0
2.5°	4590.5	4581.9	4645.3	4659.7	4665.5	4731.8	4821.2	4881.7	4991.3	5098.0	5141.3
5°	3696.6	3679.3	3794.7	3892.7	4010.9	4166.6	4282.0	4420.4	4584.7	4743.3	4818.3
7.5°	3047.8	3070.9	3235.3	3437.1	3627.4	3812.0	3953.3	4071.5	4166.6	4267.6	4287.7
10°	2742.2	2762.4	2923.9	3117.0	3292.9	3480.4	3601.5	3702.4	3762.9	3837.9	3863.9
12.5°	2693.2	2707.6	2817.2	2952.7	3085.3	3255.5	3408.3	3520.7	3589.9	3650.5	3656.3
15°	2742.2	2748.0	2814.3	2903.7	3019.0	3160.3	3336.2	3463.1	3540.9	3566.9	3561.1
17.5°	2822.9	2822.9	2854.6	2929.6	3039.2	3174.7	3342.0	3471.7	3552.5	3564.0	3540.9
20°	2857.5	2863.3	2883.5	2967.1	3065.1	3189.1	3356.4	3465.9	3529.4	3497.7	3457.3
22.5°	2598.0	2586.5	2641.3	2817.2	3036.3	3258.3	3416.9	3540.9	3575.5	3468.8	3382.3
25°	2102.1	2107.8	2142.4	2228.9	2399.1	2603.8	2955.6	3333.3	3595.7	3555.3	3425.6
27.5°	1833.9	1816.6	1825.2	1839.7	1816.6	1773.3	1813.7	1805.1	1799.3	1903.1	1914.6
30°	1346.6	1349.5	1363.9	1389.8	1444.6	1525.4	1611.9	1660.9	1704.1	1784.9	1773.3
32.5°	1337.9	1340.8	1349.5	1372.5	1401.4	1456.2	1510.9	1531.1	1577.3	1643.6	1623.4
35°	1251.4	1242.8	1265.8	1286.0	1294.7	1317.8	1361.0	1389.8	1418.7	1464.8	1453.3
37.5°	1110.1	1113.0	1159.2	1190.9	1199.5	1231.2	1271.6	1294.7	1326.4	1366.8	1346.6
40°	989.0	991.9	1046.7	1081.3	1101.5	1144.7	1205.3	1234.1	1286.0	1317.8	1294.7
42.5°	850.6	862.2	899.6	940.0	951.5	977.5	1017.9	1055.4	1121.7	1164.9	1150.5
45°	709.3	715.1	741.1	781.4	798.7	827.6	865.0	899.6	951.5	986.2	983.3
47.5°	625.7	631.5	654.6	689.2	723.8	761.2	801.6	836.2	885.2	914.1	902.5
50°	591.1	596.9	625.7	666.1	709.3	758.4	807.4	844.9	891.0	908.3	893.9
52.5°	596.9	596.9	637.2	689.2	749.7	816.0	876.6	922.7	960.2	971.7	940.0
55°	565.2	573.8	617.1	689.2	781.4	885.2	989.0	1087.1	1141.9	1130.3	1069.8
57.5°	516.1	524.8	556.5	634.4	732.4	856.4	1003.5	1124.6	1190.9	1199.5	1139.0
60°	487.3	493.1	521.9	582.5	669.0	769.9	902.5	1000.6	1075.5	1098.6	1055.4
62.5°	461.4	467.1	490.2	536.3	599.8	677.6	752.6	816.0	876.6	899.6	882.3
65°	432.5	435.4	458.5	498.8	550.7	617.1	680.5	726.6	775.7	790.1	769.9
67.5°	403.7	406.6	426.8	464.2	513.3	573.8	622.8	674.7	723.8	735.3	720.9
70°	377.7	380.6	397.9	432.5	475.8	533.4	579.6	614.2	663.2	674.7	657.4
72.5°	351.8	354.7	372.0	403.7	444.1	496.0	536.3	570.9	611.3	614.2	599.8
75°	325.8	328.7	343.1	372.0	406.6	458.5	496.0	524.8	559.4	559.4	542.1
77.5°	297.0	302.8	314.3	340.3	372.0	421.0	455.6	484.4	513.3	510.4	493.1
80°	271.0	273.9	285.5	308.5	337.4	383.5	418.1	441.2	467.1	464.2	449.8
82.5°	242.2	245.1	253.7	276.8	302.8	346.0	380.6	403.7	426.8	421.0	406.6
85°	213.4	216.3	227.8	245.1	271.0	311.4	343.1	366.2	383.5	377.7	366.2
87.5°	190.3	190.3	199.0	216.3	239.3	276.8	305.6	328.7	343.1	340.3	328.7
90°	164.4	167.2	173.0	187.4	207.6	239.3	268.2	288.3	302.8	297.0	285.5
92.5°	144.2	144.2	149.9	164.4	181.7	210.5	236.4	253.7	265.3	262.4	253.7
95°	124.0	126.9	129.8	141.3	155.7	178.8	201.8	219.1	230.7	227.8	222.0
97.5°	109.6	112.5	115.3	121.1	135.5	149.9	170.1	184.5	196.1	193.2	187.4
100°	100.9	100.9	100.9	106.7	115.3	126.9	141.3	152.8	158.6	161.5	155.7
102.5°	92.3	92.3	95.2	95.2	100.9	106.7	115.3	124.0	126.9	126.9	126.9
105°	89.4	89.4	92.3	92.3	95.2	98.0	103.8	106.7	109.6	109.6	106.7
107.5°	89.4	89.4	89.4	89.4	92.3	95.2	98.0	100.9	100.9	100.9	98.0
110°	92.3	92.3	92.3	92.3	92.3	95.2	95.2	98.0	98.0	95.2	95.2

REPORT NUMBER: P690929

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	95.2	95.2	95.2	95.2	95.2	98.0	98.0	98.0	98.0	95.2	95.2
115°	100.9	100.9	100.9	103.8	103.8	103.8	103.8	103.8	103.8	100.9	98.0
117.5°	112.5	112.5	112.5	112.5	115.3	115.3	115.3	115.3	115.3	109.6	109.6
120°	126.9	124.0	126.9	129.8	132.6	132.6	132.6	132.6	132.6	126.9	124.0
122.5°	141.3	141.3	144.2	149.9	155.7	158.6	155.7	155.7	155.7	147.1	144.2
125°	158.6	158.6	167.2	178.8	187.4	190.3	187.4	187.4	187.4	178.8	173.0
127.5°	178.8	178.8	190.3	207.6	222.0	230.7	227.8	227.8	227.8	213.4	204.7
130°	199.0	199.0	216.3	239.3	262.4	268.2	271.0	273.9	273.9	256.6	245.1
132.5°	213.4	216.3	236.4	268.2	297.0	305.6	314.3	317.2	317.2	297.0	279.7
135°	227.8	230.7	256.6	294.1	325.8	346.0	354.7	357.6	360.4	337.4	317.2
137.5°	236.4	239.3	268.2	311.4	343.1	369.1	389.3	395.0	395.0	369.1	343.1
140°	236.4	239.3	271.0	311.4	346.0	377.7	400.8	412.3	412.3	386.4	363.3
142.5°	230.7	236.4	265.3	305.6	340.3	372.0	397.9	409.5	409.5	386.4	363.3
145°	219.1	222.0	250.9	285.5	320.1	357.6	386.4	397.9	397.9	374.9	351.8
147.5°	199.0	201.8	224.9	256.6	291.2	328.7	357.6	372.0	369.1	348.9	328.7
150°	173.0	173.0	193.2	219.1	253.7	288.3	317.2	331.6	331.6	311.4	294.1
152.5°	141.3	141.3	155.7	175.9	204.7	239.3	262.4	276.8	276.8	262.4	248.0
155°	109.6	109.6	121.1	135.5	158.6	184.5	201.8	216.3	216.3	204.7	193.2
157.5°	77.9	77.9	89.4	100.9	118.2	138.4	152.8	161.5	164.4	152.8	147.1
160°	51.9	51.9	57.7	66.3	80.7	95.2	103.8	112.5	115.3	106.7	103.8
162.5°	28.8	28.8	31.7	40.4	49.0	57.7	66.3	72.1	72.1	69.2	66.3
165°	8.7	8.7	11.5	14.4	20.2	26.0	28.8	31.7	34.6	34.6	31.7
167.5°	0.0	0.0	2.9	2.9	2.9	2.9	5.8	5.8	8.7	8.7	8.7
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: P690929

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0	5692.0
2.5°	5230.6	5392.1	5568.0	5738.1	5945.7	6162.0	6361.0	6496.5	6568.6	6591.6	6591.6
5°	4876.0	5023.0	5152.8	5314.3	5565.1	5891.0	6251.4	6551.3	6721.4	6741.6	6744.5
7.5°	4322.3	4443.4	4579.0	4723.1	4945.2	5236.4	5712.2	6196.6	6473.4	6525.3	6505.1
10°	3869.6	3944.6	4025.3	4080.1	4235.8	4452.1	4775.0	5250.8	5591.1	5631.4	5660.3
12.5°	3659.1	3670.7	3647.6	3659.1	3711.0	3812.0	3970.6	4244.5	4466.5	4504.0	4524.2
15°	3552.5	3494.8	3402.5	3316.0	3269.9	3278.5	3313.1	3425.6	3463.1	3526.5	3497.7
17.5°	3503.4	3373.7	3229.5	3062.3	2958.5	2851.8	2794.1	2773.9	2759.5	2762.4	2788.3
20°	3379.4	3232.4	3001.7	2782.6	2615.3	2468.3	2344.3	2254.9	2205.9	2182.8	2200.1
22.5°	3249.7	3021.9	2750.8	2514.4	2275.1	2087.6	1946.4	1816.6	1744.5	1764.7	1741.6
25°	3252.6	2912.3	2589.4	2278.0	2053.0	1805.1	1580.1	1444.6	1326.4	1349.5	1381.2
27.5°	2050.2	1960.8	1730.1	1548.4	1323.5	1199.5	1087.1	991.9	925.6	928.5	919.8
30°	1738.7	1646.5	1531.1	1387.0	1216.8	1072.7	942.9	833.3	769.9	752.6	749.7
32.5°	1606.1	1528.2	1421.6	1280.3	1124.6	980.4	850.6	749.7	686.3	683.4	683.4
35°	1430.2	1358.1	1268.7	1147.6	1015.0	882.3	761.2	674.7	622.8	622.8	619.9
37.5°	1320.6	1257.2	1170.7	1058.2	940.0	807.4	700.7	622.8	568.0	565.2	568.0
40°	1263.0	1196.6	1113.0	1006.3	888.1	761.2	660.3	579.6	539.2	536.3	533.4
42.5°	1147.6	1095.7	1023.6	925.6	821.8	709.3	614.2	542.1	507.5	504.6	507.5
45°	974.6	937.1	888.1	816.0	729.5	634.4	550.7	496.0	461.4	461.4	461.4
47.5°	893.9	859.3	804.5	732.4	657.4	568.0	498.8	452.7	421.0	421.0	421.0
50°	873.7	830.4	758.4	677.6	596.9	519.0	455.6	409.5	386.4	383.5	386.4
52.5°	902.5	836.2	738.2	643.0	553.6	478.7	418.1	374.9	351.8	351.8	351.8
55°	1006.3	885.2	755.5	634.4	527.7	444.1	383.5	340.3	317.2	314.3	317.2
57.5°	1075.5	922.7	761.2	625.7	510.4	421.0	354.7	308.5	285.5	282.6	285.5
60°	1015.0	891.0	735.3	602.6	496.0	403.7	334.5	288.3	265.3	262.4	262.4
62.5°	842.0	769.9	657.4	545.0	458.5	377.7	314.3	271.0	248.0	245.1	248.0
65°	746.8	683.4	585.3	496.0	421.0	351.8	297.0	259.5	236.4	236.4	236.4
67.5°	694.9	637.2	545.0	458.5	389.3	325.8	273.9	239.3	219.1	219.1	219.1
70°	634.4	576.7	493.1	415.2	351.8	297.0	250.9	216.3	199.0	196.1	199.0
72.5°	582.5	524.8	446.9	374.9	317.2	268.2	227.8	196.1	181.7	178.8	181.7
75°	524.8	470.0	395.0	331.6	282.6	239.3	204.7	175.9	164.4	161.5	161.5
77.5°	475.8	423.9	354.7	297.0	253.7	213.4	181.7	161.5	149.9	147.1	147.1
80°	432.5	383.5	317.2	265.3	224.9	190.3	164.4	144.2	132.6	132.6	132.6
82.5°	386.4	343.1	282.6	233.6	199.0	170.1	144.2	126.9	118.2	118.2	118.2
85°	348.9	305.6	248.0	207.6	173.0	147.1	126.9	112.5	103.8	103.8	103.8
87.5°	308.5	271.0	219.1	181.7	152.8	129.8	109.6	95.2	92.3	89.4	89.4
90°	268.2	233.6	187.4	155.7	129.8	109.6	92.3	80.7	77.9	75.0	75.0
92.5°	239.3	207.6	170.1	141.3	118.2	98.0	86.5	75.0	72.1	72.1	69.2
95°	207.6	181.7	149.9	126.9	106.7	92.3	80.7	72.1	69.2	69.2	66.3
97.5°	178.8	155.7	132.6	115.3	98.0	86.5	75.0	69.2	63.4	63.4	63.4
100°	149.9	132.6	115.3	98.0	89.4	77.9	69.2	63.4	60.6	57.7	57.7
102.5°	121.1	109.6	95.2	86.5	75.0	66.3	60.6	54.8	51.9	51.9	51.9
105°	103.8	95.2	86.5	77.9	69.2	60.6	54.8	49.0	46.1	46.1	46.1
107.5°	95.2	89.4	80.7	72.1	66.3	57.7	51.9	43.3	40.4	43.3	43.3
110°	92.3	86.5	77.9	72.1	63.4	57.7	51.9	40.4	37.5	40.4	40.4

REPORT NUMBER: P690929

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	92.3	86.5	80.7	72.1	66.3	57.7	51.9	40.4	37.5	37.5	37.5
115°	95.2	92.3	83.6	77.9	69.2	60.6	51.9	40.4	37.5	37.5	37.5
117.5°	106.7	100.9	92.3	83.6	75.0	63.4	54.8	40.4	37.5	37.5	37.5
120°	118.2	112.5	103.8	92.3	80.7	69.2	57.7	40.4	34.6	37.5	37.5
122.5°	138.4	129.8	118.2	103.8	89.4	75.0	57.7	43.3	31.7	37.5	37.5
125°	164.4	152.8	135.5	115.3	98.0	80.7	60.6	43.3	34.6	37.5	37.5
127.5°	193.2	178.8	155.7	129.8	106.7	83.6	63.4	43.3	34.6	34.6	37.5
130°	230.7	207.6	175.9	144.2	115.3	89.4	63.4	43.3	34.6	34.6	34.6
132.5°	262.4	233.6	193.2	155.7	121.1	92.3	63.4	43.3	31.7	31.7	31.7
135°	294.1	256.6	207.6	164.4	126.9	92.3	63.4	40.4	31.7	31.7	31.7
137.5°	320.1	271.0	219.1	167.2	126.9	89.4	60.6	37.5	28.8	28.8	28.8
140°	334.5	279.7	222.0	167.2	121.1	86.5	54.8	34.6	26.0	26.0	26.0
142.5°	334.5	276.8	219.1	161.5	115.3	80.7	49.0	28.8	23.1	23.1	23.1
145°	323.0	265.3	207.6	152.8	106.7	72.1	43.3	26.0	17.3	17.3	20.2
147.5°	302.8	245.1	190.3	138.4	95.2	60.6	37.5	20.2	14.4	14.4	14.4
150°	268.2	216.3	164.4	121.1	80.7	51.9	31.7	17.3	11.5	11.5	11.5
152.5°	224.9	178.8	138.4	100.9	66.3	40.4	23.1	14.4	8.7	8.7	8.7
155°	178.8	141.3	109.6	77.9	49.0	31.7	17.3	11.5	8.7	8.7	8.7
157.5°	132.6	106.7	80.7	57.7	37.5	23.1	14.4	8.7	5.8	5.8	5.8
160°	92.3	75.0	54.8	37.5	23.1	14.4	8.7	5.8	2.9	2.9	2.9
162.5°	60.6	46.1	34.6	23.1	14.4	8.7	5.8	2.9	2.9	2.9	2.9
165°	28.8	23.1	17.3	11.5	5.8	5.8	2.9	2.9	0.0	0.0	0.0
167.5°	8.7	5.8	2.9	2.9	2.9	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)