

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: P691689

Luminaire Tested: **CRTK2-C018-D-U-T3-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691689
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-C018-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: 5082 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U4 - G2

Input Watts (W): 50.4
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

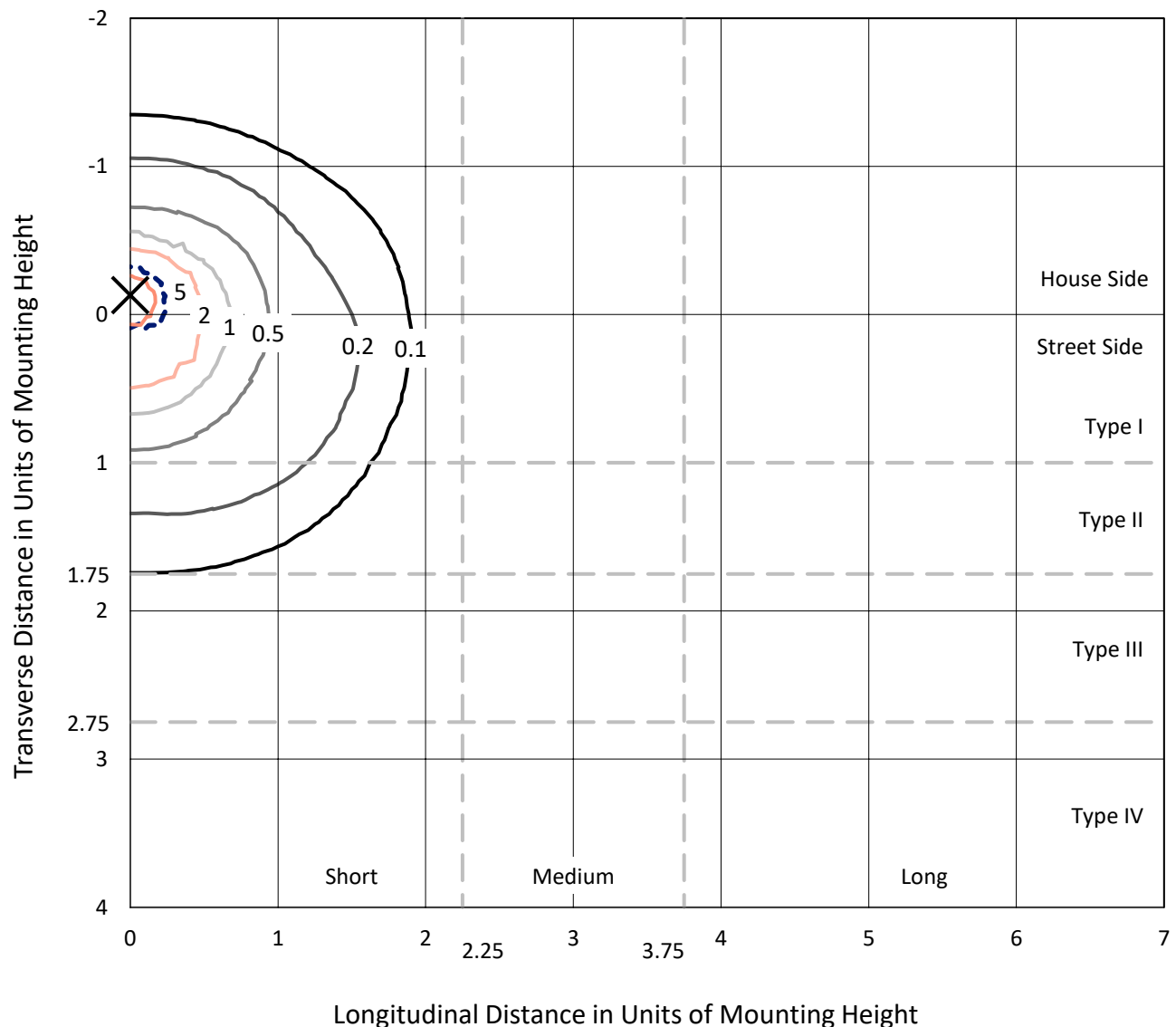


REPORT NUMBER: P691689

CATALOG NUMBER: CRTK2-C018-D-U-T3-7030-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

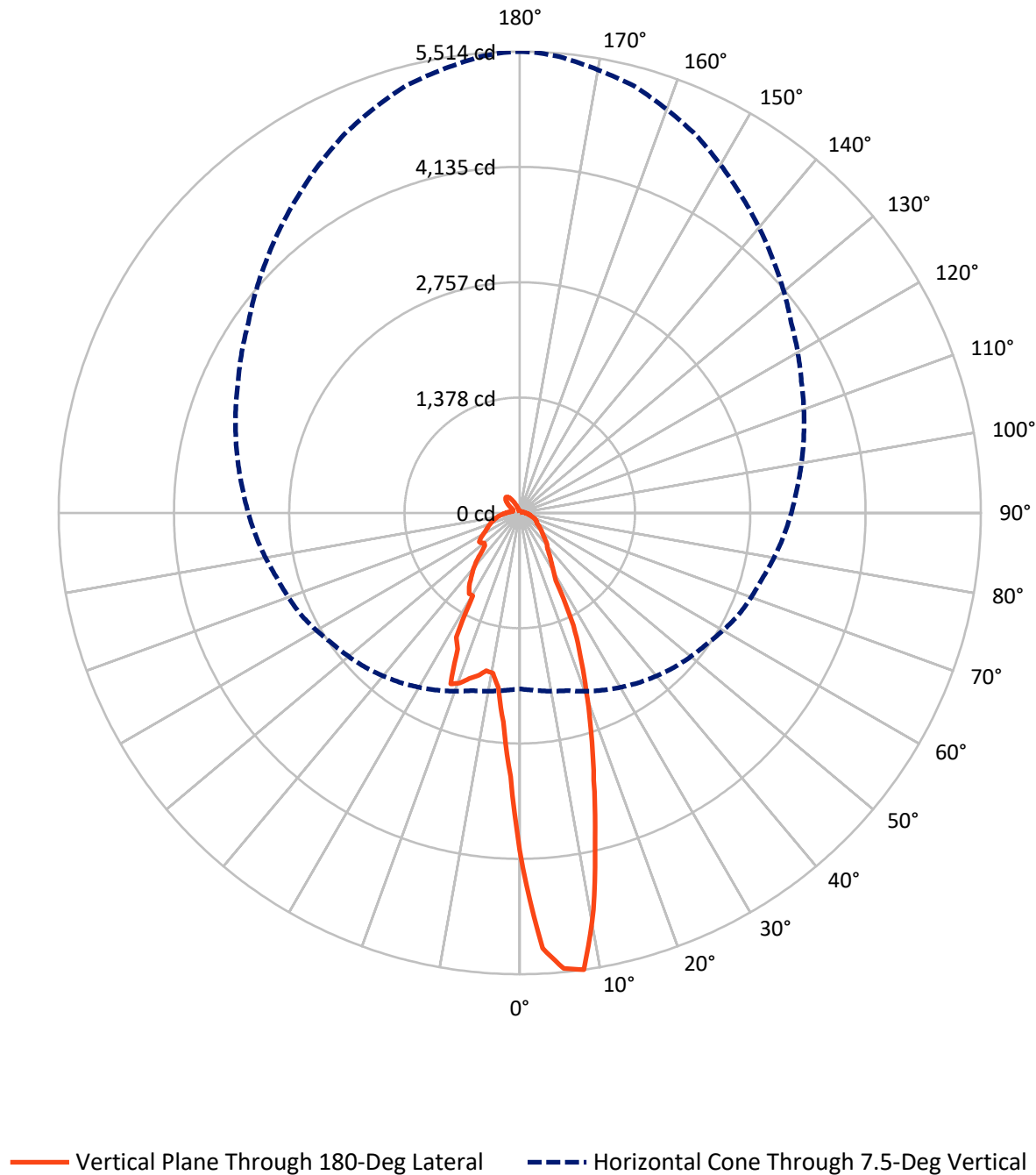


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type I - Short - N/A

REPORT NUMBER: P691689

CATALOG NUMBER: CRTK2-C018-D-U-T3-7030-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



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CATALOG NUMBER: CRTK2-C018-D-U-T3-7030-RMARROA5-HSS-CRTK2

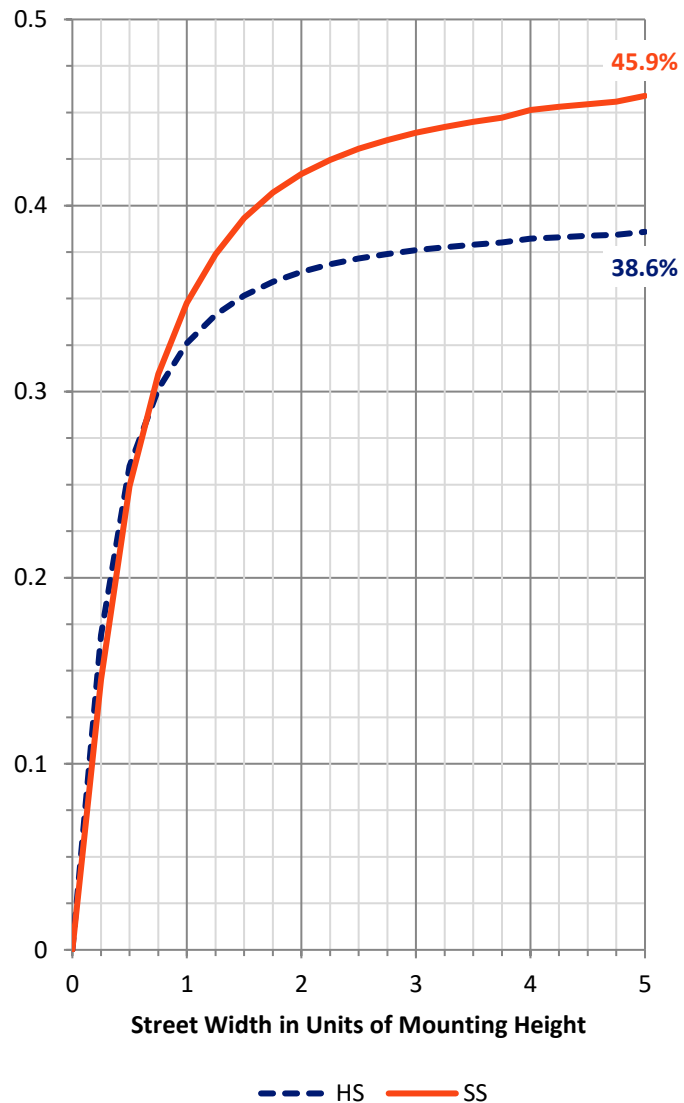
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2012.1	209.8	2221.9
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2399.3	460.8	2860.1
	% Fixture	47.2	9.1	56.3
Total	Lumens	4411.4	670.6	5082.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.5	6.7
10°-20°	728.4	14.3
20°-30°	804.3	15.8
30°-40°	583.4	11.5
40°-50°	491.5	9.7
50°-60°	501.8	9.9
60°-70°	427.6	8.4
70°-80°	318.8	6.3
80°-90°	215.2	4.2
90°-100°	128.6	2.5
100°-110°	74.0	1.5
110°-120°	69.2	1.4
120°-130°	100.7	2.0
130°-140°	136.9	2.7
140°-150°	111.4	2.2
150°-160°	44.4	0.9
160°-170°	5.4	0.1
170°-180°	0.0	0.0
0°-90°	4411.4	86.8
0°-180°	5082.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691689

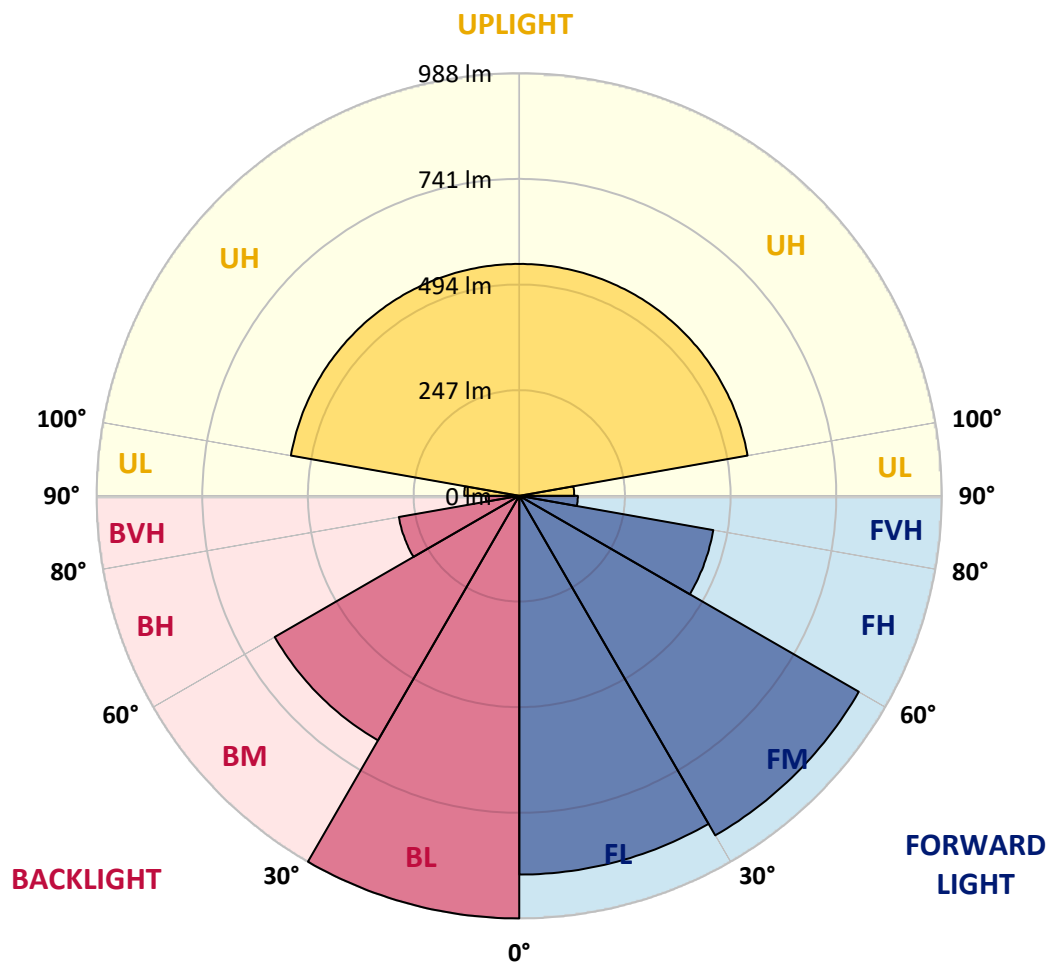
CATALOG NUMBER: CRTK2-C018-D-U-T3-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.3	17.4			
FM	(30°-60°)	916.5	18.0			
FH	(60°-80°)	460.7	9.1			G0/660
FVH	(80°-90°)	136.9	2.7			G2/225
BL	(0°-30°)	987.9	19.4	B2/1000		
BM	(30°-60°)	660.1	13.0	B1/1000		
BH	(60°-80°)	285.8	5.6	B1/500		G1/500
BVH	(80°-90°)	78.3	1.5			G1/100
UL	(90°-100°)	128.6	2.5		U3/500	
UH	(100°-180°)	542.0	10.7		U4/1000	

BUG Rating: B2-U4-G2

Type I Short





REPORT NUMBER: P691689

CATALOG NUMBER: CRTK2-C018-D-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5
2.5°	3153.9	3227.1	3233.7	3313.6	3373.5	3428.9	3468.8	3584.2	3701.7	3812.6	3876.9
5°	2504.0	2539.5	2603.8	2690.3	2801.2	2887.7	3011.9	3173.8	3329.1	3524.3	3619.6
7.5°	2102.6	2129.2	2198.0	2337.7	2477.4	2610.5	2730.3	2885.5	3005.3	3167.2	3247.0
10°	1942.9	1958.4	2016.1	2113.7	2246.7	2357.6	2461.9	2579.4	2685.9	2834.5	2892.2
12.5°	1927.4	1934.0	1980.6	2049.4	2127.0	2217.9	2304.4	2404.2	2517.3	2634.9	2679.2
15°	2011.7	2007.2	2022.7	2062.7	2107.0	2178.0	2257.8	2348.8	2457.5	2544.0	2579.4
17.5°	2071.5	2069.3	2098.1	2115.9	2158.0	2200.2	2280.0	2351.0	2457.5	2526.2	2546.2
20°	2158.0	2162.5	2171.3	2204.6	2222.4	2251.2	2300.0	2342.1	2433.1	2473.0	2468.5
22.5°	2204.6	2202.4	2240.1	2317.7	2337.7	2353.2	2362.1	2379.8	2430.8	2428.6	2395.4
25°	1787.6	1792.1	1800.9	1867.5	1951.8	2089.3	2202.4	2379.8	2475.2	2439.7	2368.7
27.5°	1670.1	1656.8	1610.2	1572.5	1459.4	1384.0	1313.0	1282.0	1297.5	1324.1	1397.3
30°	1137.8	1140.0	1144.4	1151.1	1162.2	1191.0	1211.0	1213.2	1228.7	1273.1	1257.6
32.5°	1140.0	1142.2	1135.6	1142.2	1137.8	1148.9	1146.7	1137.8	1151.1	1191.0	1175.5
35°	1071.3	1066.8	1071.3	1073.5	1049.1	1040.2	1038.0	1031.3	1040.2	1060.2	1046.9
37.5°	964.8	962.6	982.5	993.6	973.7	973.7	969.2	960.4	967.0	984.8	967.0
40°	871.6	873.9	902.7	920.4	913.8	920.4	927.1	924.9	940.4	947.1	924.9
42.5°	769.6	765.2	794.0	807.3	794.0	798.5	796.2	798.5	829.5	842.8	827.3
45°	643.2	649.8	663.2	680.9	678.7	685.3	683.1	687.6	707.5	714.2	703.1
47.5°	572.2	576.7	592.2	612.1	623.2	634.3	634.3	636.5	649.8	652.1	641.0
50°	556.7	561.1	581.1	603.3	621.0	634.3	641.0	638.8	645.4	641.0	625.5
52.5°	583.3	583.3	614.4	641.0	663.2	687.6	696.4	687.6	687.6	669.8	645.4
55°	594.4	596.6	634.3	680.9	723.0	767.4	796.2	794.0	791.8	763.0	718.6
57.5°	558.9	565.6	603.3	656.5	714.2	785.1	827.3	833.9	833.9	796.2	747.4
60°	507.9	512.3	541.2	585.5	643.2	696.4	740.8	745.2	758.5	738.6	694.2
62.5°	465.8	470.2	494.6	527.9	570.0	603.3	616.6	616.6	623.2	616.6	585.5
65°	434.7	436.9	456.9	485.7	514.6	541.2	554.5	550.0	558.9	550.0	525.6
67.5°	405.9	405.9	423.6	445.8	472.4	503.5	512.3	516.8	525.6	514.6	492.4
70°	377.0	379.3	397.0	414.8	439.1	461.3	470.2	472.4	483.5	470.2	454.7
72.5°	352.6	352.6	368.2	385.9	403.7	425.8	432.5	436.9	443.6	430.3	417.0
75°	323.8	326.0	339.3	354.9	370.4	392.6	399.2	401.4	408.1	392.6	379.3
77.5°	297.2	299.4	310.5	323.8	339.3	357.1	363.7	368.2	370.4	357.1	343.8
80°	270.6	272.8	281.7	295.0	308.3	326.0	330.5	332.7	337.1	321.6	312.7
82.5°	246.2	246.2	252.8	263.9	277.2	292.8	299.4	301.6	303.9	290.5	281.7
85°	217.4	217.4	224.0	235.1	246.2	261.7	268.4	270.6	270.6	259.5	250.6
87.5°	193.0	193.0	197.4	206.3	215.1	230.7	237.3	241.8	239.5	230.7	221.8
90°	168.6	168.6	173.0	179.7	188.5	201.8	208.5	210.7	210.7	199.6	193.0
92.5°	146.4	146.4	150.8	157.5	164.1	175.2	181.9	186.3	186.3	177.4	170.8
95°	126.4	126.4	128.6	135.3	141.9	150.8	155.3	159.7	159.7	155.3	148.6
97.5°	108.7	108.7	110.9	115.3	119.8	126.4	130.9	135.3	135.3	133.1	128.6
100°	95.4	95.4	95.4	97.6	102.0	104.2	108.7	113.1	113.1	110.9	108.7
102.5°	86.5	86.5	86.5	86.5	86.5	88.7	88.7	90.9	90.9	90.9	88.7
105°	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	79.8	77.6	75.4
107.5°	82.1	79.8	79.8	79.8	79.8	77.6	77.6	77.6	75.4	73.2	71.0
110°	82.1	82.1	82.1	82.1	79.8	77.6	77.6	75.4	73.2	71.0	68.8



REPORT NUMBER: P691689

CATALOG NUMBER: CRTK2-C018-D-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	86.5	86.5	86.5	84.3	82.1	82.1	79.8	77.6	75.4	71.0	68.8
115°	93.2	93.2	93.2	93.2	90.9	86.5	84.3	82.1	77.6	75.4	73.2
117.5°	104.2	104.2	104.2	104.2	99.8	97.6	93.2	90.9	86.5	82.1	79.8
120°	117.5	117.5	119.8	119.8	117.5	113.1	106.5	104.2	99.8	93.2	88.7
122.5°	137.5	135.3	139.7	139.7	139.7	135.3	126.4	122.0	117.5	108.7	104.2
125°	157.5	157.5	161.9	166.3	168.6	161.9	153.0	146.4	139.7	128.6	122.0
127.5°	179.7	179.7	188.5	197.4	201.8	195.2	184.1	177.4	168.6	153.0	144.2
130°	201.8	201.8	215.1	228.4	235.1	230.7	219.6	210.7	199.6	179.7	168.6
132.5°	221.8	221.8	237.3	255.1	263.9	261.7	250.6	241.8	232.9	208.5	193.0
135°	237.3	239.5	259.5	279.5	290.5	292.8	281.7	270.6	259.5	232.9	215.1
137.5°	246.2	250.6	270.6	295.0	306.1	312.7	306.1	295.0	281.7	252.8	232.9
140°	248.4	250.6	272.8	297.2	308.3	317.2	317.2	303.9	292.8	263.9	241.8
142.5°	241.8	244.0	266.2	288.3	299.4	310.5	312.7	301.6	290.5	263.9	241.8
145°	226.2	230.7	250.6	268.4	283.9	295.0	299.4	292.8	279.5	255.1	235.1
147.5°	206.3	208.5	226.2	241.8	257.3	270.6	277.2	270.6	259.5	237.3	219.6
150°	175.2	177.4	190.7	204.0	221.8	235.1	244.0	239.5	230.7	212.9	195.2
152.5°	141.9	141.9	153.0	164.1	179.7	193.0	201.8	199.6	193.0	177.4	164.1
155°	108.7	108.7	115.3	124.2	137.5	146.4	155.3	155.3	150.8	139.7	128.6
157.5°	77.6	77.6	84.3	90.9	99.8	108.7	115.3	115.3	113.1	104.2	97.6
160°	51.0	51.0	55.4	59.9	68.8	73.2	79.8	79.8	77.6	73.2	68.8
162.5°	26.6	26.6	31.1	33.3	39.9	44.4	48.8	51.0	51.0	46.6	44.4
165°	8.9	8.9	8.9	11.1	15.5	20.0	22.2	24.4	24.4	22.2	22.2
167.5°	2.2	2.2	2.2	2.2	2.2	2.2	4.4	6.7	6.7	6.7	6.7
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: P691689

CATALOG NUMBER: CRTK2-C018-D-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5	4249.5
2.5°	3945.7	4147.5	4320.5	4502.4	4704.2	4875.0	5048.0	5143.3	5225.4	5209.9	5209.9
5°	3712.8	3914.6	4125.3	4347.1	4619.9	4899.4	5165.5	5356.3	5456.1	5471.6	5469.4
7.5°	3326.9	3515.4	3715.0	3961.2	4280.6	4622.1	4983.7	5283.1	5471.6	5507.1	5513.7
10°	2945.4	3087.3	3255.9	3424.5	3710.6	4023.3	4347.1	4586.7	4770.7	4797.4	4828.4
12.5°	2716.9	2794.6	2903.3	3020.8	3207.1	3435.6	3701.7	3839.2	3956.8	3970.1	3998.9
15°	2599.4	2637.1	2663.7	2705.9	2816.8	2958.7	3080.7	3216.0	3264.8	3298.0	3313.6
17.5°	2552.8	2548.4	2521.8	2521.8	2530.6	2583.9	2661.5	2708.1	2739.1	2754.7	2759.1
20°	2457.5	2417.5	2364.3	2293.3	2255.6	2237.9	2257.8	2268.9	2260.1	2249.0	2268.9
22.5°	2357.6	2273.4	2178.0	2095.9	1998.3	1938.5	1880.8	1860.8	1836.4	1852.0	1852.0
25°	2326.6	2178.0	2025.0	1887.4	1741.1	1641.3	1534.8	1497.1	1459.4	1490.4	1490.4
27.5°	1375.1	1375.1	1288.6	1173.3	1046.9	993.6	951.5	927.1	911.6	918.2	918.2
30°	1230.9	1173.3	1120.0	1046.9	949.3	884.9	829.5	796.2	780.7	776.3	780.7
32.5°	1142.2	1097.9	1033.5	960.4	873.9	802.9	740.8	707.5	683.1	687.6	689.8
35°	1022.5	975.9	920.4	851.7	778.5	712.0	656.5	623.2	601.1	601.1	603.3
37.5°	947.1	900.5	847.2	785.1	714.2	649.8	598.8	558.9	539.0	536.7	536.7
40°	900.5	853.9	805.1	743.0	676.5	609.9	558.9	523.4	499.0	499.0	501.2
42.5°	816.2	771.8	729.7	674.2	614.4	556.7	507.9	476.9	452.5	448.0	452.5
45°	687.6	663.2	629.9	592.2	541.2	494.6	450.2	423.6	403.7	403.7	401.4
47.5°	629.9	605.5	570.0	532.3	490.2	443.6	408.1	383.7	366.0	366.0	366.0
50°	607.7	581.1	536.7	494.6	445.8	405.9	374.8	350.4	337.1	337.1	334.9
52.5°	618.8	576.7	519.0	459.1	412.5	372.6	341.6	317.2	306.1	306.1	303.9
55°	678.7	603.3	519.0	445.8	390.4	346.0	314.9	288.3	277.2	277.2	277.2
57.5°	703.1	618.8	514.6	432.5	370.4	323.8	286.1	261.7	250.6	250.6	248.4
60°	658.7	587.7	492.4	414.8	354.9	308.3	272.8	248.4	235.1	235.1	232.9
62.5°	561.1	510.1	436.9	379.3	332.7	290.5	259.5	235.1	224.0	224.0	224.0
65°	503.5	459.1	401.4	350.4	308.3	272.8	244.0	224.0	212.9	212.9	212.9
67.5°	470.2	432.5	374.8	326.0	283.9	250.6	224.0	206.3	197.4	195.2	197.4
70°	434.7	394.8	341.6	295.0	257.3	226.2	201.8	184.1	175.2	175.2	175.2
72.5°	397.0	359.3	308.3	266.2	228.4	204.0	179.7	164.1	155.3	155.3	153.0
75°	361.5	323.8	275.0	235.1	204.0	179.7	159.7	146.4	137.5	137.5	137.5
77.5°	328.3	292.8	246.2	210.7	181.9	161.9	141.9	130.9	124.2	124.2	122.0
80°	297.2	263.9	219.6	188.5	161.9	144.2	126.4	117.5	110.9	110.9	110.9
82.5°	266.2	235.1	195.2	166.3	144.2	126.4	113.1	104.2	99.8	97.6	99.8
85°	237.3	208.5	173.0	146.4	126.4	110.9	99.8	90.9	86.5	86.5	86.5
87.5°	210.7	184.1	153.0	128.6	110.9	97.6	86.5	79.8	77.6	75.4	75.4
90°	181.9	157.5	130.9	110.9	95.4	84.3	73.2	68.8	64.3	64.3	64.3
92.5°	161.9	141.9	117.5	99.8	86.5	77.6	68.8	64.3	59.9	59.9	59.9
95°	141.9	124.2	104.2	90.9	79.8	71.0	64.3	59.9	57.7	57.7	57.7
97.5°	122.0	108.7	93.2	82.1	73.2	66.5	59.9	55.4	53.2	53.2	53.2
100°	102.0	93.2	82.1	73.2	66.5	59.9	53.2	51.0	48.8	48.8	48.8
102.5°	84.3	77.6	68.8	62.1	55.4	51.0	46.6	44.4	42.1	42.1	42.1
105°	73.2	68.8	62.1	55.4	51.0	46.6	42.1	37.7	37.7	37.7	37.7
107.5°	68.8	62.1	57.7	53.2	48.8	42.1	39.9	35.5	33.3	33.3	33.3
110°	66.5	62.1	57.7	51.0	46.6	42.1	37.7	33.3	31.1	31.1	31.1



REPORT NUMBER: P691689

CATALOG NUMBER: CRTK2-C018-D-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	66.5	62.1	57.7	53.2	48.8	42.1	39.9	31.1	28.8	28.8	28.8
115°	71.0	66.5	59.9	55.4	48.8	44.4	39.9	31.1	28.8	28.8	28.8
117.5°	75.4	71.0	64.3	59.9	53.2	46.6	39.9	31.1	28.8	28.8	28.8
120°	86.5	79.8	71.0	64.3	57.7	48.8	42.1	31.1	26.6	28.8	28.8
122.5°	97.6	90.9	79.8	71.0	62.1	53.2	42.1	31.1	26.6	28.8	28.8
125°	115.3	104.2	90.9	79.8	66.5	55.4	44.4	31.1	24.4	26.6	28.8
127.5°	135.3	122.0	104.2	88.7	73.2	57.7	44.4	31.1	24.4	26.6	26.6
130°	157.5	139.7	117.5	95.4	77.6	59.9	44.4	31.1	24.4	26.6	26.6
132.5°	179.7	155.3	128.6	104.2	82.1	62.1	44.4	28.8	24.4	24.4	24.4
135°	197.4	168.6	137.5	108.7	84.3	62.1	42.1	28.8	22.2	22.2	22.2
137.5°	212.9	179.7	144.2	110.9	84.3	59.9	39.9	26.6	20.0	20.0	20.0
140°	221.8	184.1	146.4	108.7	79.8	57.7	37.7	24.4	17.7	17.7	17.7
142.5°	221.8	181.9	141.9	106.5	75.4	53.2	33.3	20.0	15.5	15.5	15.5
145°	212.9	173.0	135.3	99.8	68.8	46.6	28.8	17.7	13.3	13.3	13.3
147.5°	199.6	159.7	124.2	90.9	62.1	39.9	24.4	15.5	11.1	11.1	11.1
150°	177.4	141.9	108.7	77.6	53.2	33.3	20.0	13.3	8.9	8.9	8.9
152.5°	148.6	117.5	90.9	64.3	44.4	26.6	17.7	8.9	6.7	6.7	6.7
155°	117.5	93.2	71.0	51.0	33.3	20.0	13.3	8.9	4.4	4.4	4.4
157.5°	88.7	68.8	53.2	37.7	24.4	15.5	8.9	6.7	4.4	4.4	4.4
160°	62.1	48.8	35.5	24.4	15.5	11.1	6.7	4.4	2.2	2.2	2.2
162.5°	39.9	31.1	22.2	15.5	8.9	6.7	4.4	2.2	2.2	2.2	0.0
165°	20.0	15.5	11.1	6.7	4.4	2.2	2.2	2.2	0.0	0.0	0.0
167.5°	4.4	4.4	4.4	2.2	2.2	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)