

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: P691613

Luminaire Tested: **CRTK2-C018-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691613
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-C018-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K 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: 6114 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

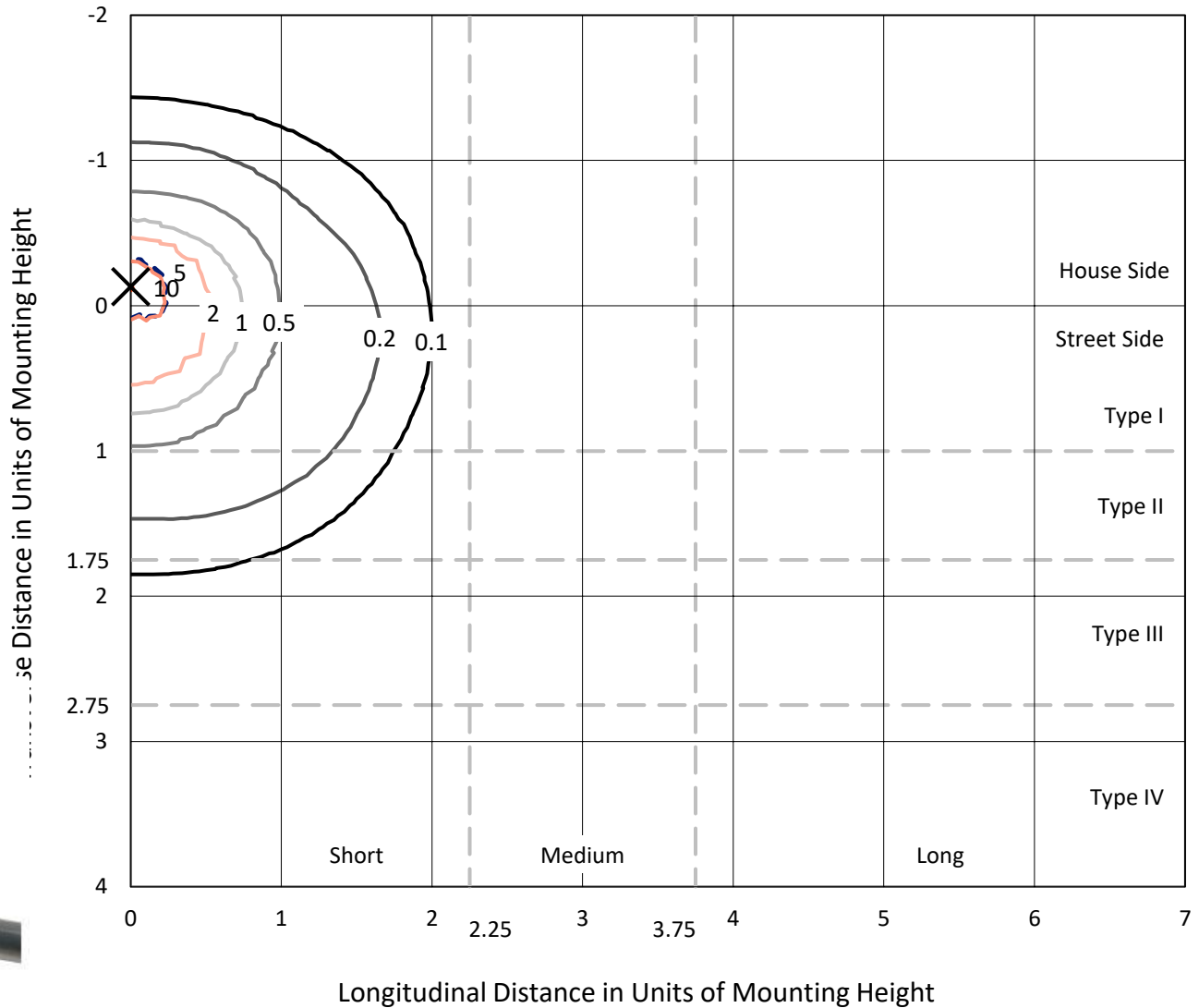
Input Watts (W): 53.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P691613
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

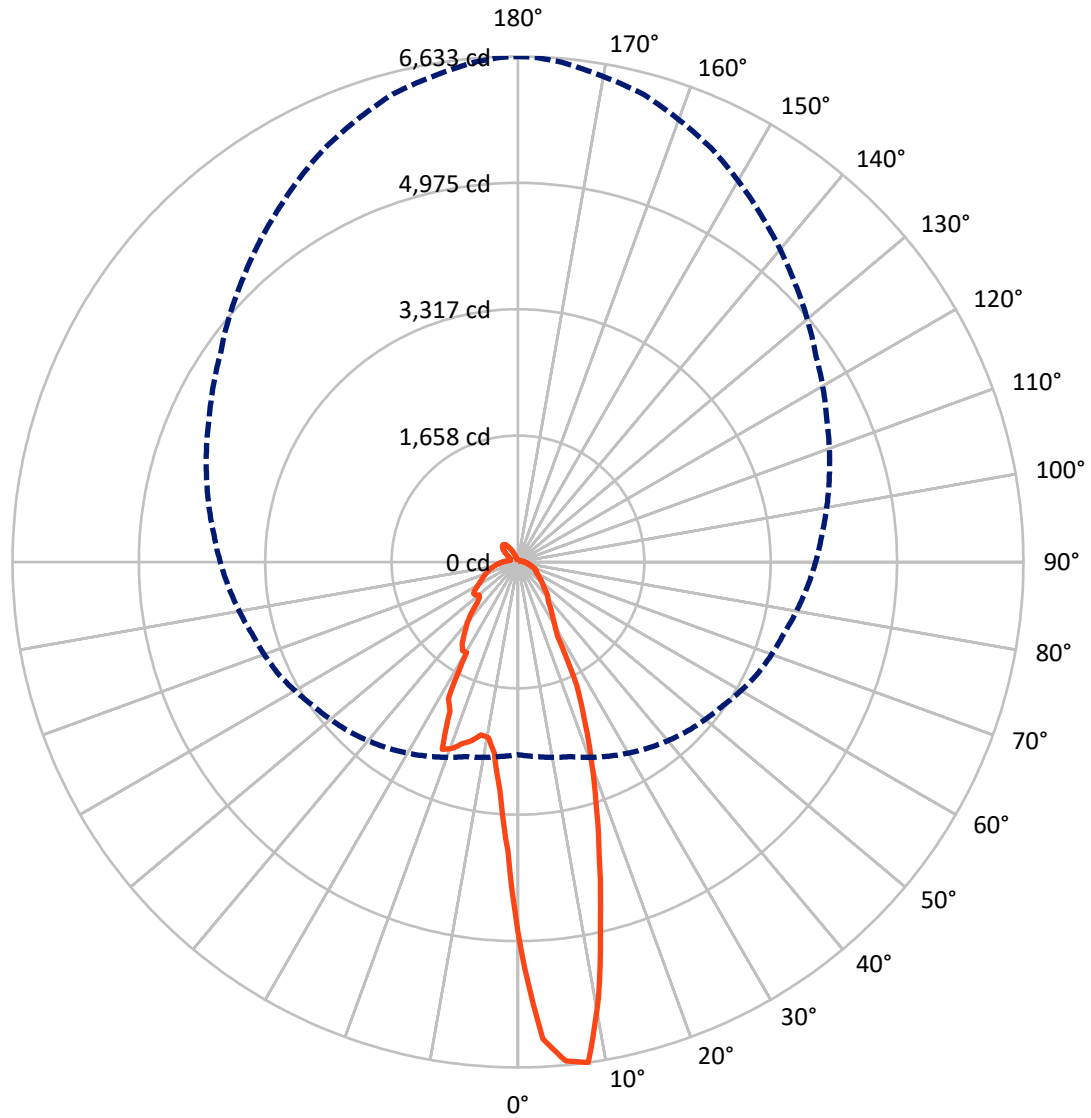
✕ Max cd
 - - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type I - Short - N/A

REPORT NUMBER: P691613
CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

REPORT NUMBER: P691613

CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

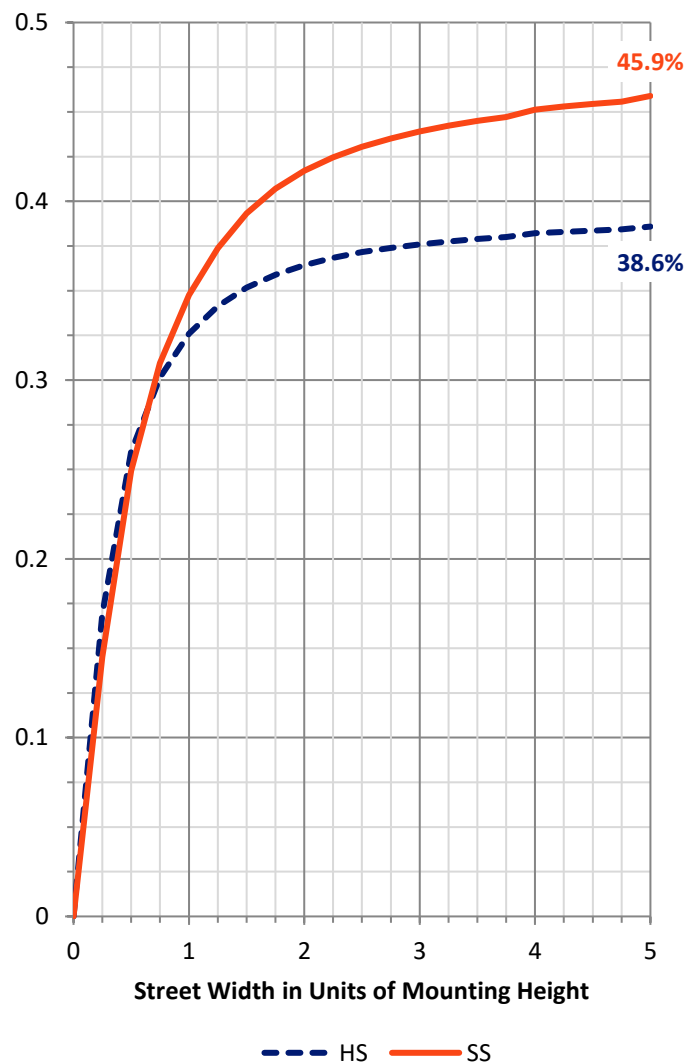
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2420.6	252.4	2673.1
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2886.6	554.4	3440.9
	% Fixture	47.2	9.1	56.3
Total	Lumens	5307.2	806.8	6114.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.6	6.7
10°-20°	876.3	14.3
20°-30°	967.7	15.8
30°-40°	701.8	11.5
40°-50°	591.3	9.7
50°-60°	603.6	9.9
60°-70°	514.5	8.4
70°-80°	383.5	6.3
80°-90°	258.9	4.2
90°-100°	154.7	2.5
100°-110°	89.0	1.5
110°-120°	83.2	1.4
120°-130°	121.2	2.0
130°-140°	164.7	2.7
140°-150°	134.0	2.2
150°-160°	53.5	0.9
160°-170°	6.5	0.1
170°-180°	0.0	0.0
0°-90°	5307.2	86.8
0°-180°	6114.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691613

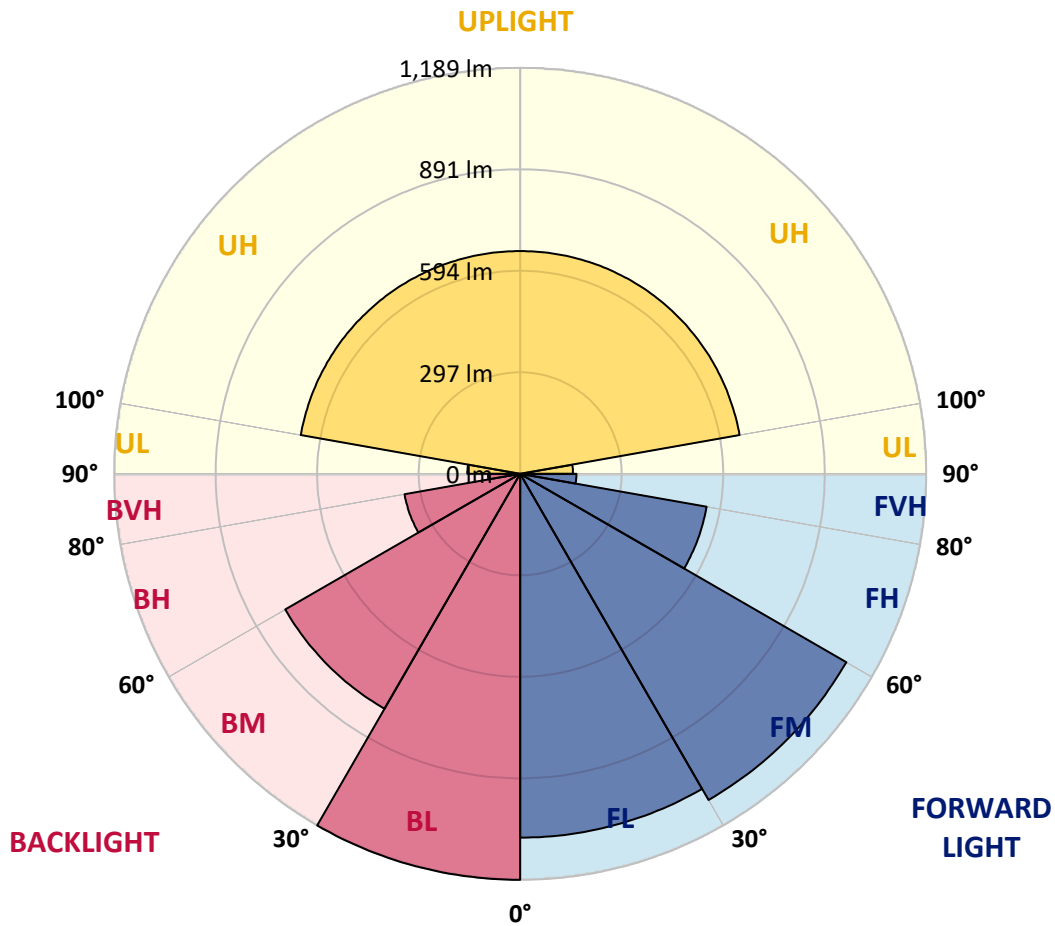
CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.1	17.4			
FM (30°-60°)	1102.6	18.0			
FH (60°-80°)	554.2	9.1			G0/660
FVH (80°-90°)	164.7	2.7			G2/225
BL (0°-30°)	1188.5	19.4	B3/2500		
BM (30°-60°)	794.1	13.0	B1/1000		
BH (60°-80°)	343.8	5.6	B1/500		G1/500
BVH (80°-90°)	94.2	1.5			G1/100
UL (90°-100°)	154.7	2.5		U3/500	
UH (100°-180°)	652.0	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short





REPORT NUMBER: P691613

CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5
2.5°	3794.3	3882.4	3890.4	3986.5	4058.5	4125.2	4173.2	4312.0	4453.4	4586.8	4664.2
5°	3012.5	3055.2	3132.6	3236.7	3370.1	3474.1	3623.6	3818.3	4005.1	4239.9	4354.7
7.5°	2529.6	2561.6	2644.3	2812.4	2980.5	3140.6	3284.7	3471.5	3615.6	3810.3	3906.4
10°	2337.4	2356.1	2425.5	2542.9	2703.0	2836.4	2961.8	3103.2	3231.3	3410.1	3479.5
12.5°	2318.8	2326.8	2382.8	2465.5	2558.9	2668.3	2772.4	2892.4	3028.5	3170.0	3223.3
15°	2420.2	2414.8	2433.5	2481.5	2534.9	2620.3	2716.3	2825.7	2956.5	3060.6	3103.2
17.5°	2492.2	2489.5	2524.2	2545.6	2596.3	2647.0	2743.0	2828.4	2956.5	3039.2	3063.2
20°	2596.3	2601.6	2612.3	2652.3	2673.6	2708.3	2767.0	2817.7	2927.1	2975.2	2969.8
22.5°	2652.3	2649.6	2695.0	2788.4	2812.4	2831.1	2841.7	2863.1	2924.5	2921.8	2881.8
25°	2150.7	2156.0	2166.7	2246.7	2348.1	2513.5	2649.6	2863.1	2977.8	2935.1	2849.8
27.5°	2009.2	1993.2	1937.2	1891.8	1755.7	1665.0	1579.6	1542.3	1561.0	1593.0	1681.0
30°	1368.8	1371.5	1376.8	1384.9	1398.2	1432.9	1456.9	1459.6	1478.2	1531.6	1512.9
32.5°	1371.5	1374.2	1366.2	1374.2	1368.8	1382.2	1379.5	1368.8	1384.9	1432.9	1414.2
35°	1288.8	1283.5	1288.8	1291.5	1262.1	1251.4	1248.8	1240.8	1251.4	1275.5	1259.4
37.5°	1160.7	1158.0	1182.1	1195.4	1171.4	1171.4	1166.1	1155.4	1163.4	1184.7	1163.4
40°	1048.6	1051.3	1086.0	1107.3	1099.3	1107.3	1115.4	1112.7	1131.4	1139.4	1112.7
42.5°	925.9	920.6	955.3	971.3	955.3	960.6	957.9	960.6	997.9	1014.0	995.3
45°	773.8	781.8	797.8	819.2	816.5	824.5	821.8	827.2	851.2	859.2	845.9
47.5°	688.4	693.8	712.4	736.5	749.8	763.1	763.1	765.8	781.8	784.5	771.1
50°	669.7	675.1	699.1	725.8	747.1	763.1	771.1	768.5	776.5	771.1	752.5
52.5°	701.8	701.8	739.1	771.1	797.8	827.2	837.8	827.2	827.2	805.8	776.5
55°	715.1	717.8	763.1	819.2	869.9	923.2	957.9	955.3	952.6	917.9	864.5
57.5°	672.4	680.4	725.8	789.8	859.2	944.6	995.3	1003.3	1003.3	957.9	899.2
60°	611.0	616.4	651.1	704.4	773.8	837.8	891.2	896.6	912.6	888.5	835.2
62.5°	560.3	565.7	595.0	635.1	685.8	725.8	741.8	741.8	749.8	741.8	704.4
65°	523.0	525.7	549.7	584.4	619.0	651.1	667.1	661.7	672.4	661.7	632.4
67.5°	488.3	488.3	509.6	536.3	568.3	605.7	616.4	621.7	632.4	619.0	592.4
70°	453.6	456.3	477.6	499.0	528.3	555.0	565.7	568.3	581.7	565.7	547.0
72.5°	424.3	424.3	442.9	464.3	485.6	512.3	520.3	525.7	533.7	517.7	501.6
75°	389.6	392.2	408.3	426.9	445.6	472.3	480.3	483.0	491.0	472.3	456.3
77.5°	357.6	360.2	373.6	389.6	408.3	429.6	437.6	442.9	445.6	429.6	413.6
80°	325.5	328.2	338.9	354.9	370.9	392.2	397.6	400.2	405.6	386.9	376.2
82.5°	296.2	296.2	304.2	317.5	333.5	352.2	360.2	362.9	365.6	349.5	338.9
85°	261.5	261.5	269.5	282.8	296.2	314.9	322.9	325.5	325.5	312.2	301.5
87.5°	232.1	232.1	237.5	248.2	258.8	277.5	285.5	290.8	288.2	277.5	266.8
90°	202.8	202.8	208.1	216.1	226.8	242.8	250.8	253.5	253.5	240.1	232.1
92.5°	176.1	176.1	181.4	189.4	197.5	210.8	218.8	224.1	224.1	213.5	205.5
95°	152.1	152.1	154.8	162.8	170.8	181.4	186.8	192.1	192.1	186.8	178.8
97.5°	130.7	130.7	133.4	138.8	144.1	152.1	157.4	162.8	162.8	160.1	154.8
100°	114.7	114.7	114.7	117.4	122.7	125.4	130.7	136.1	136.1	133.4	130.7
102.5°	104.1	104.1	104.1	104.1	104.1	106.7	106.7	109.4	109.4	109.4	106.7
105°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	96.1	93.4	90.7
107.5°	98.7	96.1	96.1	96.1	96.1	93.4	93.4	93.4	90.7	88.1	85.4
110°	98.7	98.7	98.7	98.7	96.1	93.4	93.4	90.7	88.1	85.4	82.7



REPORT NUMBER: P691613

CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	104.1	104.1	104.1	101.4	98.7	98.7	96.1	93.4	90.7	85.4	82.7
115°	112.1	112.1	112.1	112.1	109.4	104.1	101.4	98.7	93.4	90.7	88.1
117.5°	125.4	125.4	125.4	125.4	120.1	117.4	112.1	109.4	104.1	98.7	96.1
120°	141.4	141.4	144.1	144.1	141.4	136.1	128.1	125.4	120.1	112.1	106.7
122.5°	165.4	162.8	168.1	168.1	168.1	162.8	152.1	146.8	141.4	130.7	125.4
125°	189.4	189.4	194.8	200.1	202.8	194.8	184.1	176.1	168.1	154.8	146.8
127.5°	216.1	216.1	226.8	237.5	242.8	234.8	221.5	213.5	202.8	184.1	173.4
130°	242.8	242.8	258.8	274.8	282.8	277.5	264.2	253.5	240.1	216.1	202.8
132.5°	266.8	266.8	285.5	306.9	317.5	314.9	301.5	290.8	280.2	250.8	232.1
135°	285.5	288.2	312.2	336.2	349.5	352.2	338.9	325.5	312.2	280.2	258.8
137.5°	296.2	301.5	325.5	354.9	368.2	376.2	368.2	354.9	338.9	304.2	280.2
140°	298.9	301.5	328.2	357.6	370.9	381.6	381.6	365.6	352.2	317.5	290.8
142.5°	290.8	293.5	320.2	346.9	360.2	373.6	376.2	362.9	349.5	317.5	290.8
145°	272.2	277.5	301.5	322.9	341.5	354.9	360.2	352.2	336.2	306.9	282.8
147.5°	248.2	250.8	272.2	290.8	309.5	325.5	333.5	325.5	312.2	285.5	264.2
150°	210.8	213.5	229.5	245.5	266.8	282.8	293.5	288.2	277.5	256.2	234.8
152.5°	170.8	170.8	184.1	197.5	216.1	232.1	242.8	240.1	232.1	213.5	197.5
155°	130.7	130.7	138.8	149.4	165.4	176.1	186.8	186.8	181.4	168.1	154.8
157.5°	93.4	93.4	101.4	109.4	120.1	130.7	138.8	138.8	136.1	125.4	117.4
160°	61.4	61.4	66.7	72.0	82.7	88.1	96.1	96.1	93.4	88.1	82.7
162.5°	32.0	32.0	37.4	40.0	48.0	53.4	58.7	61.4	61.4	56.0	53.4
165°	10.7	10.7	10.7	13.3	18.7	24.0	26.7	29.4	29.4	26.7	26.7
167.5°	2.7	2.7	2.7	2.7	2.7	2.7	5.3	8.0	8.0	8.0	8.0
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



REPORT NUMBER: P691613

CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5	5112.5
2.5°	4746.9	4989.7	5197.9	5416.7	5659.5	5864.9	6073.1	6187.8	6286.5	6267.9	6267.9
5°	4466.7	4709.6	4963.1	5229.9	5558.1	5894.3	6214.5	6444.0	6564.0	6582.7	6580.0
7.5°	4002.5	4229.3	4469.4	4765.6	5149.8	5560.8	5995.7	6355.9	6582.7	6625.4	6633.4
10°	3543.5	3714.3	3917.1	4119.9	4464.1	4840.3	5229.9	5518.1	5739.5	5771.6	5808.9
12.5°	3268.7	3362.1	3492.8	3634.2	3858.4	4133.2	4453.4	4618.8	4760.3	4776.3	4811.0
15°	3127.3	3172.6	3204.6	3255.3	3388.8	3559.5	3706.3	3869.0	3927.8	3967.8	3986.5
17.5°	3071.2	3065.9	3033.9	3033.9	3044.5	3108.6	3202.0	3258.0	3295.4	3314.0	3319.4
20°	2956.5	2908.5	2844.4	2759.0	2713.7	2692.3	2716.3	2729.7	2719.0	2705.7	2729.7
22.5°	2836.4	2735.0	2620.3	2521.6	2404.1	2332.1	2262.7	2238.7	2209.4	2228.0	2228.0
25°	2799.1	2620.3	2436.2	2270.7	2094.6	1974.5	1846.5	1801.1	1755.7	1793.1	1793.1
27.5°	1654.4	1654.4	1550.3	1411.5	1259.4	1195.4	1144.7	1115.4	1096.7	1104.7	1104.7
30°	1480.9	1411.5	1347.5	1259.4	1142.0	1064.7	997.9	957.9	939.2	933.9	939.2
32.5°	1374.2	1320.8	1243.4	1155.4	1051.3	965.9	891.2	851.2	821.8	827.2	829.8
35°	1230.1	1174.1	1107.3	1024.6	936.6	856.5	789.8	749.8	723.1	723.1	725.8
37.5°	1139.4	1083.3	1019.3	944.6	859.2	781.8	720.4	672.4	648.4	645.7	645.7
40°	1083.3	1027.3	968.6	893.9	813.8	733.8	672.4	629.7	600.4	600.4	603.0
42.5°	981.9	928.6	877.9	811.2	739.1	669.7	611.0	573.7	544.3	539.0	544.3
45°	827.2	797.8	757.8	712.4	651.1	595.0	541.7	509.6	485.6	485.6	483.0
47.5°	757.8	728.4	685.8	640.4	589.7	533.7	491.0	461.6	440.3	440.3	440.3
50°	731.1	699.1	645.7	595.0	536.3	488.3	450.9	421.6	405.6	405.6	402.9
52.5°	744.5	693.8	624.4	552.3	496.3	448.3	410.9	381.6	368.2	368.2	365.6
55°	816.5	725.8	624.4	536.3	469.6	416.3	378.9	346.9	333.5	333.5	333.5
57.5°	845.9	744.5	619.0	520.3	445.6	389.6	344.2	314.9	301.5	301.5	298.9
60°	792.5	707.1	592.4	499.0	426.9	370.9	328.2	298.9	282.8	282.8	280.2
62.5°	675.1	613.7	525.7	456.3	400.2	349.5	312.2	282.8	269.5	269.5	269.5
65°	605.7	552.3	483.0	421.6	370.9	328.2	293.5	269.5	256.2	256.2	256.2
67.5°	565.7	520.3	450.9	392.2	341.5	301.5	269.5	248.2	237.5	234.8	237.5
70°	523.0	475.0	410.9	354.9	309.5	272.2	242.8	221.5	210.8	210.8	210.8
72.5°	477.6	432.3	370.9	320.2	274.8	245.5	216.1	197.5	186.8	186.8	184.1
75°	434.9	389.6	330.9	282.8	245.5	216.1	192.1	176.1	165.4	165.4	165.4
77.5°	394.9	352.2	296.2	253.5	218.8	194.8	170.8	157.4	149.4	149.4	146.8
80°	357.6	317.5	264.2	226.8	194.8	173.4	152.1	141.4	133.4	133.4	133.4
82.5°	320.2	282.8	234.8	200.1	173.4	152.1	136.1	125.4	120.1	117.4	120.1
85°	285.5	250.8	208.1	176.1	152.1	133.4	120.1	109.4	104.1	104.1	104.1
87.5°	253.5	221.5	184.1	154.8	133.4	117.4	104.1	96.1	93.4	90.7	90.7
90°	218.8	189.4	157.4	133.4	114.7	101.4	88.1	82.7	77.4	77.4	77.4
92.5°	194.8	170.8	141.4	120.1	104.1	93.4	82.7	77.4	72.0	72.0	72.0
95°	170.8	149.4	125.4	109.4	96.1	85.4	77.4	72.0	69.4	69.4	69.4
97.5°	146.8	130.7	112.1	98.7	88.1	80.0	72.0	66.7	64.0	64.0	64.0
100°	122.7	112.1	98.7	88.1	80.0	72.0	64.0	61.4	58.7	58.7	58.7
102.5°	101.4	93.4	82.7	74.7	66.7	61.4	56.0	53.4	50.7	50.7	50.7
105°	88.1	82.7	74.7	66.7	61.4	56.0	50.7	45.4	45.4	45.4	45.4
107.5°	82.7	74.7	69.4	64.0	58.7	50.7	48.0	42.7	40.0	40.0	40.0
110°	80.0	74.7	69.4	61.4	56.0	50.7	45.4	40.0	37.4	37.4	37.4



REPORT NUMBER: P691613
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	80.0	74.7	69.4	64.0	58.7	50.7	48.0	37.4	34.7	34.7	34.7
115°	85.4	80.0	72.0	66.7	58.7	53.4	48.0	37.4	34.7	34.7	34.7
117.5°	90.7	85.4	77.4	72.0	64.0	56.0	48.0	37.4	34.7	34.7	34.7
120°	104.1	96.1	85.4	77.4	69.4	58.7	50.7	37.4	32.0	34.7	34.7
122.5°	117.4	109.4	96.1	85.4	74.7	64.0	50.7	37.4	32.0	34.7	34.7
125°	138.8	125.4	109.4	96.1	80.0	66.7	53.4	37.4	29.4	32.0	34.7
127.5°	162.8	146.8	125.4	106.7	88.1	69.4	53.4	37.4	29.4	32.0	32.0
130°	189.4	168.1	141.4	114.7	93.4	72.0	53.4	37.4	29.4	32.0	32.0
132.5°	216.1	186.8	154.8	125.4	98.7	74.7	53.4	34.7	29.4	29.4	29.4
135°	237.5	202.8	165.4	130.7	101.4	74.7	50.7	34.7	26.7	26.7	26.7
137.5°	256.2	216.1	173.4	133.4	101.4	72.0	48.0	32.0	24.0	24.0	24.0
140°	266.8	221.5	176.1	130.7	96.1	69.4	45.4	29.4	21.3	21.3	21.3
142.5°	266.8	218.8	170.8	128.1	90.7	64.0	40.0	24.0	18.7	18.7	18.7
145°	256.2	208.1	162.8	120.1	82.7	56.0	34.7	21.3	16.0	16.0	16.0
147.5°	240.1	192.1	149.4	109.4	74.7	48.0	29.4	18.7	13.3	13.3	13.3
150°	213.5	170.8	130.7	93.4	64.0	40.0	24.0	16.0	10.7	10.7	10.7
152.5°	178.8	141.4	109.4	77.4	53.4	32.0	21.3	10.7	8.0	8.0	8.0
155°	141.4	112.1	85.4	61.4	40.0	24.0	16.0	10.7	5.3	5.3	5.3
157.5°	106.7	82.7	64.0	45.4	29.4	18.7	10.7	8.0	5.3	5.3	5.3
160°	74.7	58.7	42.7	29.4	18.7	13.3	8.0	5.3	2.7	2.7	2.7
162.5°	48.0	37.4	26.7	18.7	10.7	8.0	5.3	2.7	2.7	2.7	0.0
165°	24.0	18.7	13.3	8.0	5.3	2.7	2.7	2.7	0.0	0.0	0.0
167.5°	5.3	5.3	5.3	2.7	2.7	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)