

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: P691581

Luminaire Tested: **CRTK2-C018-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691581
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-C018-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K 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: 5994 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

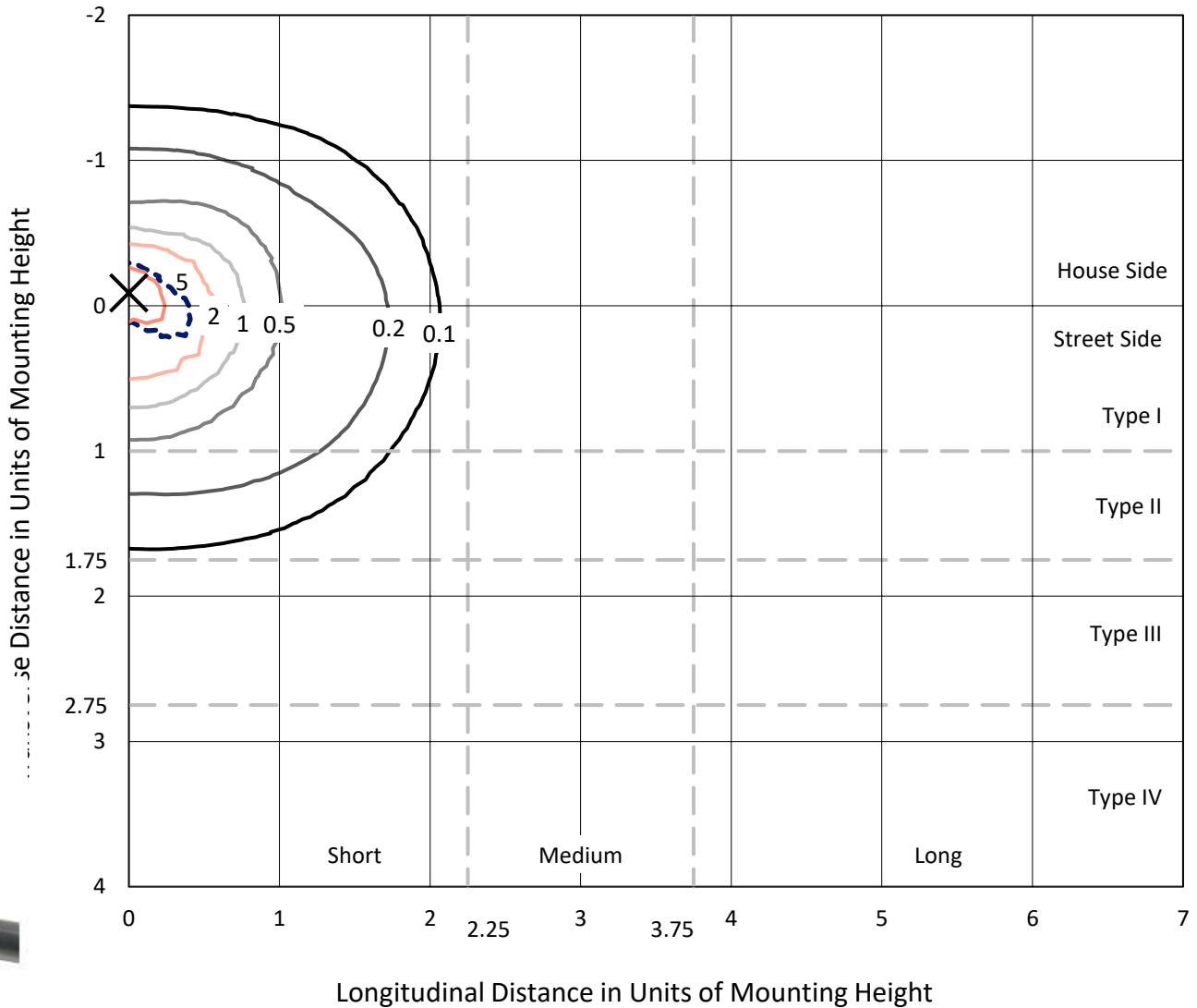
Input Watts (W): 53.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P691581
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

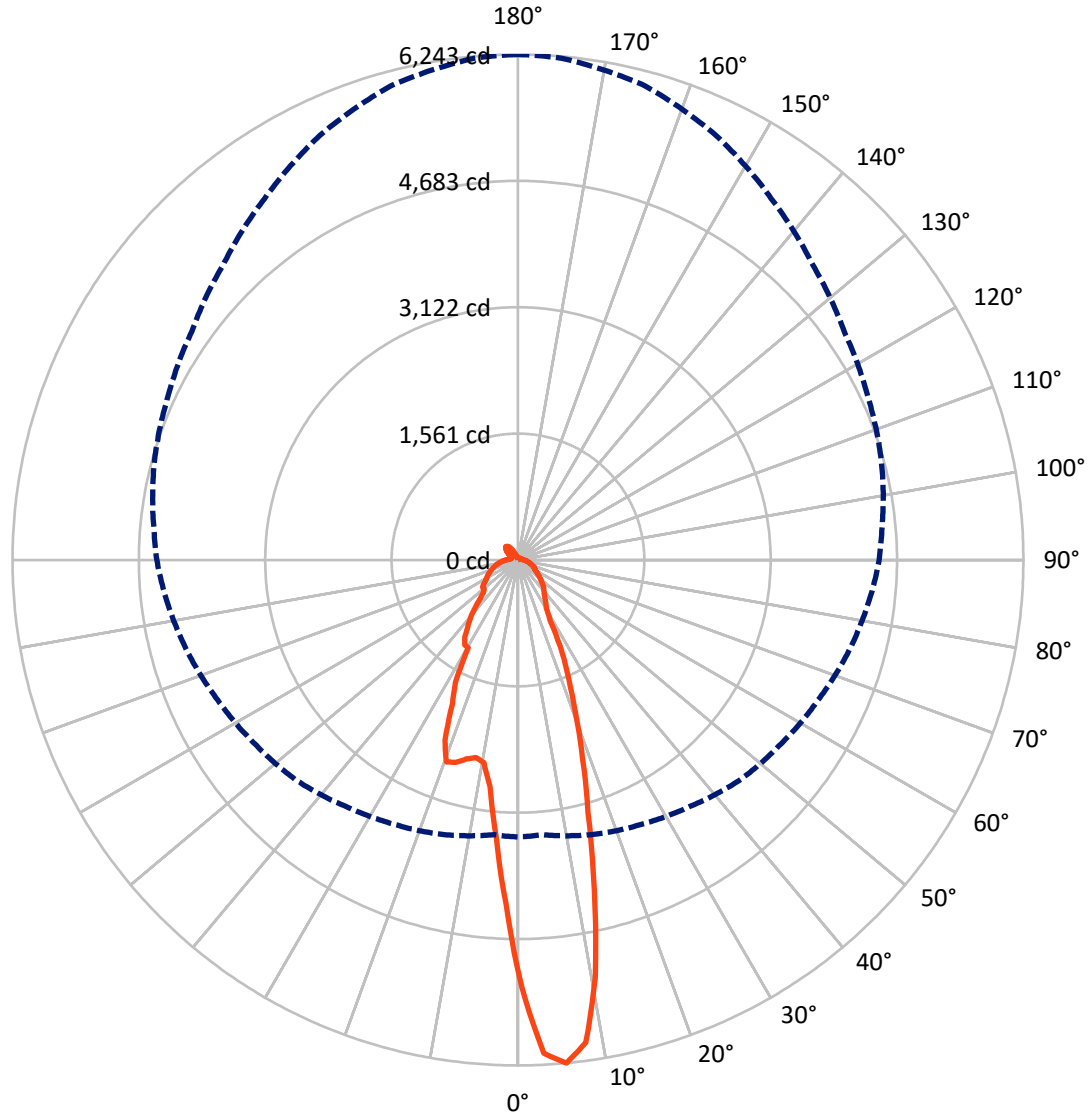
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type I - Short - N/A

REPORT NUMBER: P691581
CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

REPORT NUMBER: P691581

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

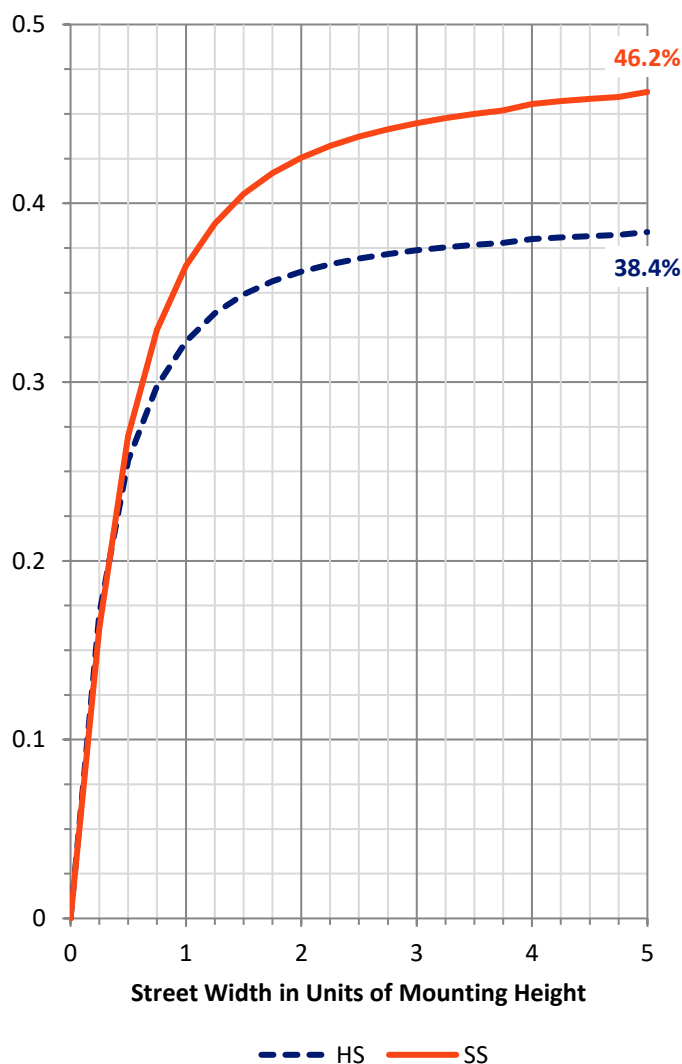
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2362.2	277.3	2639.5
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2839.0	515.6	3354.5
	% Fixture	47.4	8.6	56.0
Total	Lumens	5201.1	792.9	5994.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.9	6.8
10°-20°	865.5	14.4
20°-30°	941.9	15.7
30°-40°	689.5	11.5
40°-50°	579.7	9.7
50°-60°	588.7	9.8
60°-70°	500.4	8.3
70°-80°	373.4	6.2
80°-90°	254.2	4.2
90°-100°	152.6	2.5
100°-110°	87.5	1.5
110°-120°	80.6	1.3
120°-130°	117.0	2.0
130°-140°	161.0	2.7
140°-150°	133.2	2.2
150°-160°	54.2	0.9
160°-170°	6.7	0.1
170°-180°	0.0	0.0
0°-90°	5201.1	86.8
0°-180°	5994.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691581

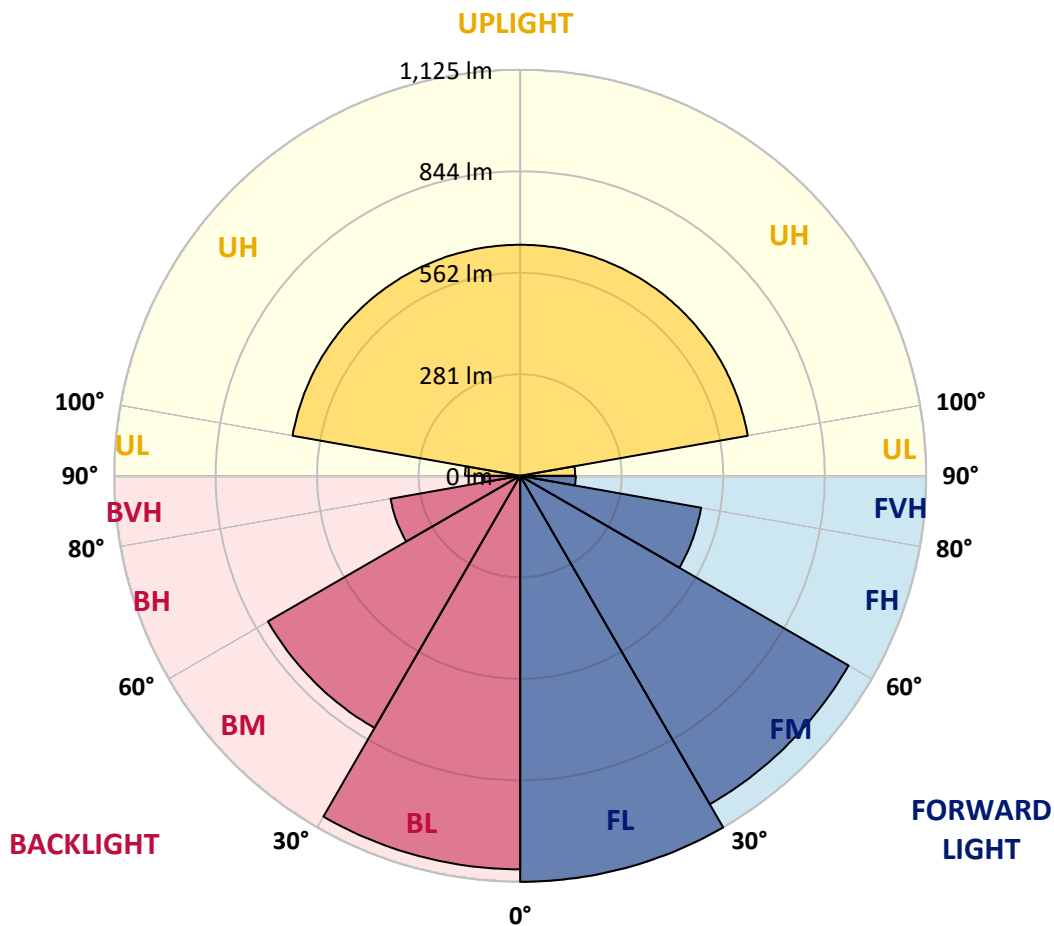
CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.0	18.8			
FM (30°-60°)	1050.8	17.5			
FH (60°-80°)	509.2	8.5			G0/660
FVH (80°-90°)	153.9	2.6			G2/225
BL (0°-30°)	1090.3	18.2	B3/2500		
BM (30°-60°)	807.0	13.5	B1/1000		
BH (60°-80°)	364.6	6.1	B1/500		G1/500
BVH (80°-90°)	100.2	1.7			G2/225
UL (90°-100°)	152.6	2.5		U3/500	
UH (100°-180°)	640.2	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short





REPORT NUMBER: P691581

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2
2.5°	4249.5	4241.5	4300.2	4313.6	4318.9	4380.3	4463.0	4519.1	4620.5	4719.3	4759.3
5°	3422.0	3406.0	3512.8	3603.5	3713.0	3857.1	3963.9	4092.0	4244.2	4391.0	4460.4
7.5°	2821.4	2842.8	2994.9	3181.8	3358.0	3528.8	3659.6	3769.0	3857.1	3950.5	3969.2
10°	2538.5	2557.2	2706.7	2885.5	3048.3	3221.8	3333.9	3427.4	3483.4	3552.8	3576.8
12.5°	2493.1	2506.5	2607.9	2733.3	2856.1	3013.6	3155.1	3259.2	3323.3	3379.3	3384.6
15°	2538.5	2543.8	2605.2	2688.0	2794.7	2925.5	3088.4	3205.8	3277.9	3301.9	3296.6
17.5°	2613.2	2613.2	2642.6	2712.0	2813.4	2938.9	3093.7	3213.8	3288.6	3299.2	3277.9
20°	2645.3	2650.6	2669.3	2746.7	2837.4	2952.2	3107.0	3208.5	3267.2	3237.8	3200.5
22.5°	2405.0	2394.3	2445.1	2607.9	2810.8	3016.3	3163.1	3277.9	3309.9	3211.1	3131.1
25°	1945.9	1951.2	1983.3	2063.4	2220.8	2410.4	2736.0	3085.7	3328.6	3291.2	3171.1
27.5°	1697.7	1681.6	1689.7	1703.0	1681.6	1641.6	1679.0	1671.0	1665.6	1761.7	1772.4
30°	1246.6	1249.2	1262.6	1286.6	1337.3	1412.0	1492.1	1537.5	1577.5	1652.3	1641.6
32.5°	1238.5	1241.2	1249.2	1270.6	1297.3	1348.0	1398.7	1417.4	1460.1	1521.5	1502.8
35°	1158.5	1150.5	1171.8	1190.5	1198.5	1219.9	1259.9	1286.6	1313.3	1356.0	1345.3
37.5°	1027.7	1030.3	1073.1	1102.4	1110.4	1139.8	1177.2	1198.5	1227.9	1265.2	1246.6
40°	915.6	918.2	968.9	1001.0	1019.7	1059.7	1115.8	1142.5	1190.5	1219.9	1198.5
42.5°	787.4	798.1	832.8	870.2	880.9	904.9	942.3	977.0	1038.4	1078.4	1065.0
45°	656.6	662.0	686.0	723.4	739.4	766.1	800.8	832.8	880.9	912.9	910.2
47.5°	579.2	584.6	605.9	638.0	670.0	704.7	742.1	774.1	819.5	846.2	835.5
50°	547.2	552.5	579.2	616.6	656.6	702.0	747.4	782.1	824.8	840.8	827.5
52.5°	552.5	552.5	589.9	638.0	694.0	755.4	811.5	854.2	888.9	899.5	870.2
55°	523.2	531.2	571.2	638.0	723.4	819.5	915.6	1006.3	1057.0	1046.4	990.3
57.5°	477.8	485.8	515.2	587.2	678.0	792.8	928.9	1041.0	1102.4	1110.4	1054.4
60°	451.1	456.4	483.1	539.2	619.3	712.7	835.5	926.2	995.6	1017.0	977.0
62.5°	427.1	432.4	453.8	496.5	555.2	627.3	696.7	755.4	811.5	832.8	816.8
65°	400.4	403.1	424.4	461.8	509.8	571.2	630.0	672.7	718.0	731.4	712.7
67.5°	373.7	376.4	395.1	429.8	475.1	531.2	576.6	624.6	670.0	680.7	667.3
70°	349.7	352.3	368.4	400.4	440.4	493.8	536.5	568.6	613.9	624.6	608.6
72.5°	325.7	328.3	344.3	373.7	411.1	459.1	496.5	528.5	565.9	568.6	555.2
75°	301.6	304.3	317.6	344.3	376.4	424.4	459.1	485.8	517.8	517.8	501.8
77.5°	274.9	280.3	291.0	315.0	344.3	389.7	421.7	448.4	475.1	472.5	456.4
80°	250.9	253.6	264.3	285.6	312.3	355.0	387.0	408.4	432.4	429.8	416.4
82.5°	224.2	226.9	234.9	256.3	280.3	320.3	352.3	373.7	395.1	389.7	376.4
85°	197.5	200.2	210.9	226.9	250.9	288.3	317.6	339.0	355.0	349.7	339.0
87.5°	176.2	176.2	184.2	200.2	221.6	256.3	282.9	304.3	317.6	315.0	304.3
90°	152.1	154.8	160.2	173.5	192.2	221.6	248.2	266.9	280.3	274.9	264.3
92.5°	133.5	133.5	138.8	152.1	168.2	194.9	218.9	234.9	245.6	242.9	234.9
95°	114.8	117.4	120.1	130.8	144.1	165.5	186.8	202.9	213.5	210.9	205.5
97.5°	101.4	104.1	106.8	112.1	125.5	138.8	157.5	170.8	181.5	178.8	173.5
100°	93.4	93.4	93.4	98.8	106.8	117.4	130.8	141.5	146.8	149.5	144.1
102.5°	85.4	85.4	88.1	88.1	93.4	98.8	106.8	114.8	117.4	117.4	117.4
105°	82.7	82.7	85.4	85.4	88.1	90.8	96.1	98.8	101.4	101.4	98.8
107.5°	82.7	82.7	82.7	82.7	85.4	88.1	90.8	93.4	93.4	93.4	90.8
110°	85.4	85.4	85.4	85.4	85.4	88.1	88.1	90.8	90.8	88.1	88.1



REPORT NUMBER: P691581

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	88.1	88.1	88.1	88.1	88.1	90.8	90.8	90.8	90.8	88.1	88.1
115°	93.4	93.4	93.4	96.1	96.1	96.1	96.1	96.1	96.1	93.4	90.8
117.5°	104.1	104.1	104.1	104.1	106.8	106.8	106.8	106.8	106.8	101.4	101.4
120°	117.4	114.8	117.4	120.1	122.8	122.8	122.8	122.8	122.8	117.4	114.8
122.5°	130.8	130.8	133.5	138.8	144.1	146.8	144.1	144.1	144.1	136.1	133.5
125°	146.8	146.8	154.8	165.5	173.5	176.2	173.5	173.5	173.5	165.5	160.2
127.5°	165.5	165.5	176.2	192.2	205.5	213.5	210.9	210.9	210.9	197.5	189.5
130°	184.2	184.2	200.2	221.6	242.9	248.2	250.9	253.6	253.6	237.6	226.9
132.5°	197.5	200.2	218.9	248.2	274.9	282.9	291.0	293.6	293.6	274.9	258.9
135°	210.9	213.5	237.6	272.3	301.6	320.3	328.3	331.0	333.7	312.3	293.6
137.5°	218.9	221.6	248.2	288.3	317.6	341.7	360.4	365.7	365.7	341.7	317.6
140°	218.9	221.6	250.9	288.3	320.3	349.7	371.0	381.7	381.7	357.7	336.3
142.5°	213.5	218.9	245.6	282.9	315.0	344.3	368.4	379.0	379.0	357.7	336.3
145°	202.9	205.5	232.2	264.3	296.3	331.0	357.7	368.4	368.4	347.0	325.7
147.5°	184.2	186.8	208.2	237.6	269.6	304.3	331.0	344.3	341.7	323.0	304.3
150°	160.2	160.2	178.8	202.9	234.9	266.9	293.6	307.0	307.0	288.3	272.3
152.5°	130.8	130.8	144.1	162.8	189.5	221.6	242.9	256.3	256.3	242.9	229.6
155°	101.4	101.4	112.1	125.5	146.8	170.8	186.8	200.2	200.2	189.5	178.8
157.5°	72.1	72.1	82.7	93.4	109.4	128.1	141.5	149.5	152.1	141.5	136.1
160°	48.0	48.0	53.4	61.4	74.7	88.1	96.1	104.1	106.8	98.8	96.1
162.5°	26.7	26.7	29.4	37.4	45.4	53.4	61.4	66.7	66.7	64.1	61.4
165°	8.0	8.0	10.7	13.3	18.7	24.0	26.7	29.4	32.0	32.0	29.4
167.5°	0.0	0.0	2.7	2.7	2.7	2.7	5.3	5.3	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: P691581

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2	5269.2
2.5°	4842.1	4991.6	5154.4	5311.9	5504.1	5704.3	5888.4	6013.9	6080.6	6102.0	6102.0
5°	4513.8	4649.9	4770.0	4919.5	5151.7	5453.3	5787.0	6064.6	6222.1	6240.8	6243.4
7.5°	4001.3	4113.4	4238.8	4372.3	4577.8	4847.4	5287.8	5736.3	5992.5	6040.6	6021.9
10°	3582.2	3651.6	3726.3	3777.0	3921.2	4121.4	4420.3	4860.8	5175.7	5213.1	5239.8
12.5°	3387.3	3398.0	3376.6	3387.3	3435.4	3528.8	3675.6	3929.2	4134.7	4169.4	4188.1
15°	3288.6	3235.2	3149.8	3069.7	3027.0	3035.0	3067.0	3171.1	3205.8	3264.5	3237.8
17.5°	3243.2	3123.1	2989.6	2834.8	2738.7	2639.9	2586.5	2567.8	2554.5	2557.2	2581.2
20°	3128.4	2992.3	2778.7	2575.9	2421.0	2284.9	2170.1	2087.4	2042.0	2020.6	2036.7
22.5°	3008.3	2797.4	2546.5	2327.6	2106.1	1932.6	1801.8	1681.6	1614.9	1633.6	1612.2
25°	3010.9	2696.0	2397.0	2108.7	1900.5	1671.0	1462.8	1337.3	1227.9	1249.2	1278.6
27.5°	1897.9	1815.1	1601.6	1433.4	1225.2	1110.4	1006.3	918.2	856.8	859.5	851.5
30°	1609.6	1524.2	1417.4	1283.9	1126.4	993.0	872.9	771.4	712.7	696.7	694.0
32.5°	1486.8	1414.7	1316.0	1185.2	1041.0	907.6	787.4	694.0	635.3	632.6	632.6
35°	1324.0	1257.2	1174.5	1062.4	939.6	816.8	704.7	624.6	576.6	576.6	573.9
37.5°	1222.5	1163.8	1083.7	979.6	870.2	747.4	648.6	576.6	525.8	523.2	525.8
40°	1169.1	1107.8	1030.3	931.6	822.1	704.7	611.3	536.5	499.2	496.5	493.8
42.5°	1062.4	1014.3	947.6	856.8	760.7	656.6	568.6	501.8	469.8	467.1	469.8
45°	902.2	867.5	822.1	755.4	675.3	587.2	509.8	459.1	427.1	427.1	427.1
47.5°	827.5	795.4	744.7	678.0	608.6	525.8	461.8	419.1	389.7	389.7	389.7
50°	808.8	768.8	702.0	627.3	552.5	480.5	421.7	379.0	357.7	355.0	357.7
52.5°	835.5	774.1	683.3	595.2	512.5	443.1	387.0	347.0	325.7	325.7	325.7
55°	931.6	819.5	699.4	587.2	488.5	411.1	355.0	315.0	293.6	291.0	293.6
57.5°	995.6	854.2	704.7	579.2	472.5	389.7	328.3	285.6	264.3	261.6	264.3
60°	939.6	824.8	680.7	557.9	459.1	373.7	309.6	266.9	245.6	242.9	242.9
62.5°	779.4	712.7	608.6	504.5	424.4	349.7	291.0	250.9	229.6	226.9	229.6
65°	691.3	632.6	541.9	459.1	389.7	325.7	274.9	240.2	218.9	218.9	218.9
67.5°	643.3	589.9	504.5	424.4	360.4	301.6	253.6	221.6	202.9	202.9	202.9
70°	587.2	533.9	456.4	384.4	325.7	274.9	232.2	200.2	184.2	181.5	184.2
72.5°	539.2	485.8	413.7	347.0	293.6	248.2	210.9	181.5	168.2	165.5	168.2
75°	485.8	435.1	365.7	307.0	261.6	221.6	189.5	162.8	152.1	149.5	149.5
77.5°	440.4	392.4	328.3	274.9	234.9	197.5	168.2	149.5	138.8	136.1	136.1
80°	400.4	355.0	293.6	245.6	208.2	176.2	152.1	133.5	122.8	122.8	122.8
82.5°	357.7	317.6	261.6	216.2	184.2	157.5	133.5	117.4	109.4	109.4	109.4
85°	323.0	282.9	229.6	192.2	160.2	136.1	117.4	104.1	96.1	96.1	96.1
87.5°	285.6	250.9	202.9	168.2	141.5	120.1	101.4	88.1	85.4	82.7	82.7
90°	248.2	216.2	173.5	144.1	120.1	101.4	85.4	74.7	72.1	69.4	69.4
92.5°	221.6	192.2	157.5	130.8	109.4	90.8	80.1	69.4	66.7	66.7	64.1
95°	192.2	168.2	138.8	117.4	98.8	85.4	74.7	66.7	64.1	64.1	61.4
97.5°	165.5	144.1	122.8	106.8	90.8	80.1	69.4	64.1	58.7	58.7	58.7
100°	138.8	122.8	106.8	90.8	82.7	72.1	64.1	58.7	56.1	53.4	53.4
102.5°	112.1	101.4	88.1	80.1	69.4	61.4	56.1	50.7	48.0	48.0	48.0
105°	96.1	88.1	80.1	72.1	64.1	56.1	50.7	45.4	42.7	42.7	42.7
107.5°	88.1	82.7	74.7	66.7	61.4	53.4	48.0	40.0	37.4	40.0	40.0
110°	85.4	80.1	72.1	66.7	58.7	53.4	48.0	37.4	34.7	37.4	37.4



REPORT NUMBER: P691581
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	85.4	80.1	74.7	66.7	61.4	53.4	48.0	37.4	34.7	34.7	34.7
115°	88.1	85.4	77.4	72.1	64.1	56.1	48.0	37.4	34.7	34.7	34.7
117.5°	98.8	93.4	85.4	77.4	69.4	58.7	50.7	37.4	34.7	34.7	34.7
120°	109.4	104.1	96.1	85.4	74.7	64.1	53.4	37.4	32.0	34.7	34.7
122.5°	128.1	120.1	109.4	96.1	82.7	69.4	53.4	40.0	29.4	34.7	34.7
125°	152.1	141.5	125.5	106.8	90.8	74.7	56.1	40.0	32.0	34.7	34.7
127.5°	178.8	165.5	144.1	120.1	98.8	77.4	58.7	40.0	32.0	32.0	34.7
130°	213.5	192.2	162.8	133.5	106.8	82.7	58.7	40.0	32.0	32.0	32.0
132.5°	242.9	216.2	178.8	144.1	112.1	85.4	58.7	40.0	29.4	29.4	29.4
135°	272.3	237.6	192.2	152.1	117.4	85.4	58.7	37.4	29.4	29.4	29.4
137.5°	296.3	250.9	202.9	154.8	117.4	82.7	56.1	34.7	26.7	26.7	26.7
140°	309.6	258.9	205.5	154.8	112.1	80.1	50.7	32.0	24.0	24.0	24.0
142.5°	309.6	256.3	202.9	149.5	106.8	74.7	45.4	26.7	21.4	21.4	21.4
145°	299.0	245.6	192.2	141.5	98.8	66.7	40.0	24.0	16.0	16.0	18.7
147.5°	280.3	226.9	176.2	128.1	88.1	56.1	34.7	18.7	13.3	13.3	13.3
150°	248.2	200.2	152.1	112.1	74.7	48.0	29.4	16.0	10.7	10.7	10.7
152.5°	208.2	165.5	128.1	93.4	61.4	37.4	21.4	13.3	8.0	8.0	8.0
155°	165.5	130.8	101.4	72.1	45.4	29.4	16.0	10.7	8.0	8.0	8.0
157.5°	122.8	98.8	74.7	53.4	34.7	21.4	13.3	8.0	5.3	5.3	5.3
160°	85.4	69.4	50.7	34.7	21.4	13.3	8.0	5.3	2.7	2.7	2.7
162.5°	56.1	42.7	32.0	21.4	13.3	8.0	5.3	2.7	2.7	2.7	2.7
165°	26.7	21.4	16.0	10.7	5.3	5.3	2.7	2.7	0.0	0.0	0.0
167.5°	8.0	5.3	2.7	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)