

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: P691673

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691673
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-D-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: 5189 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U4 - G2

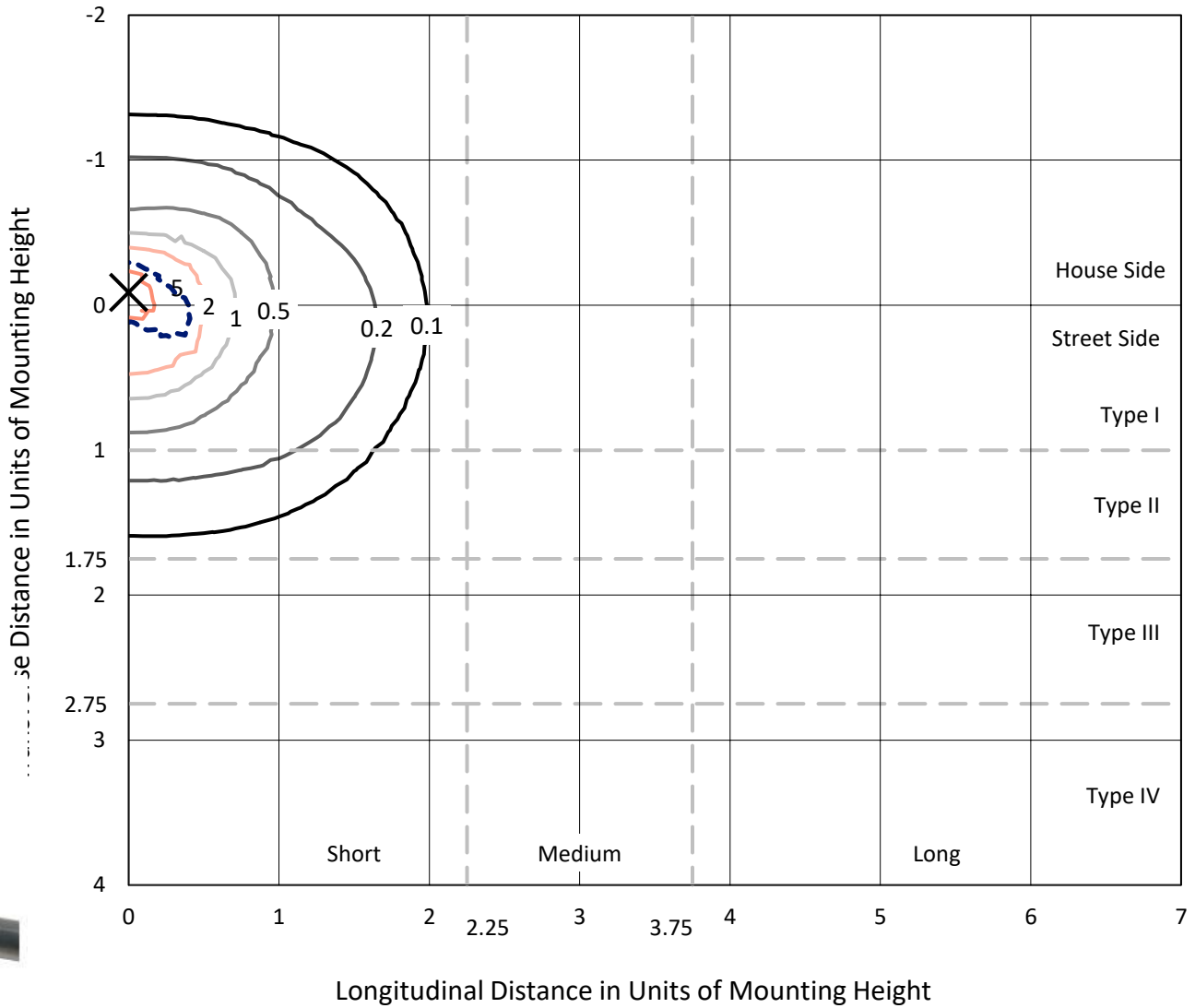
Input Watts (W): 50.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

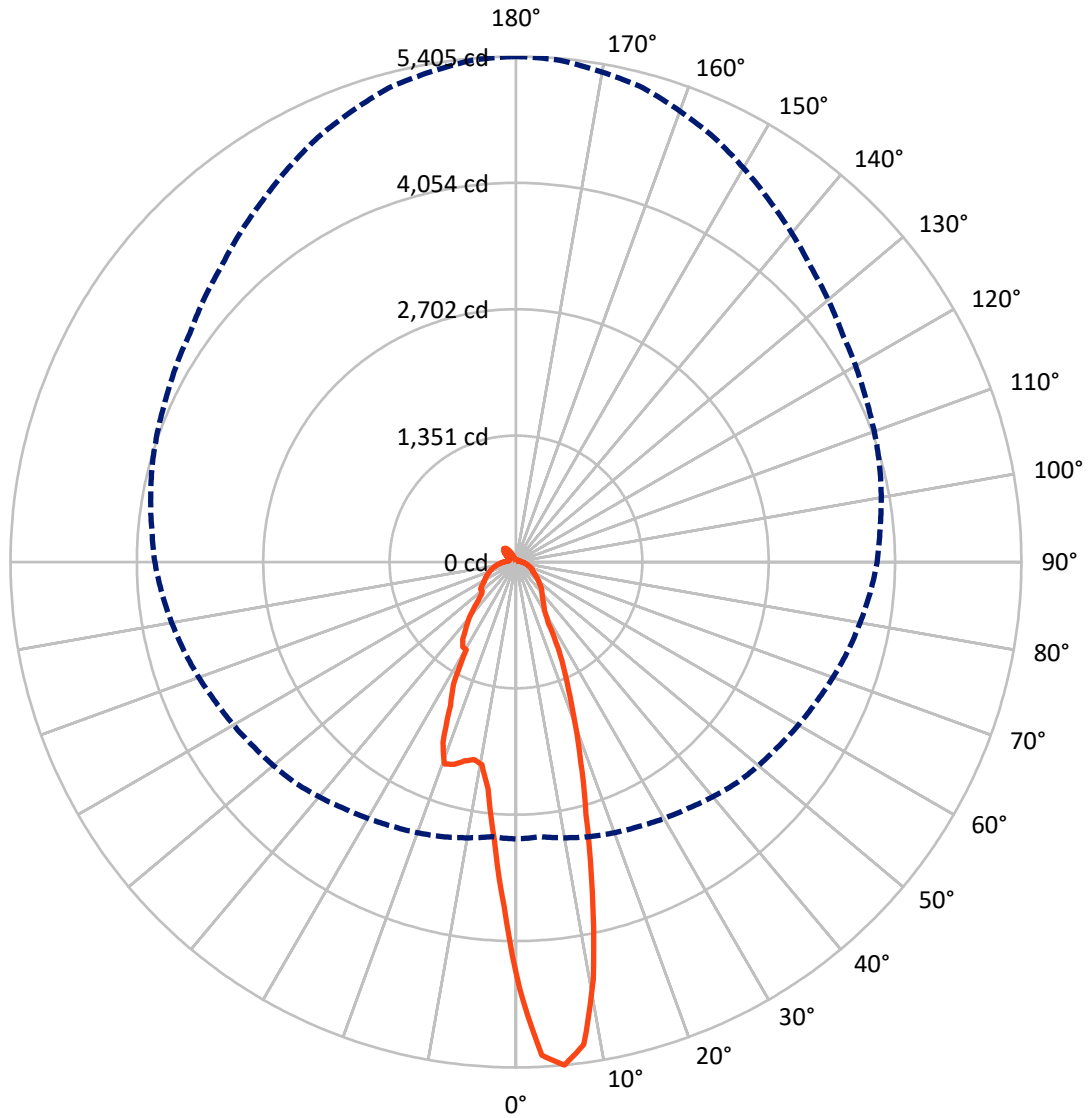
× Max cd
 - - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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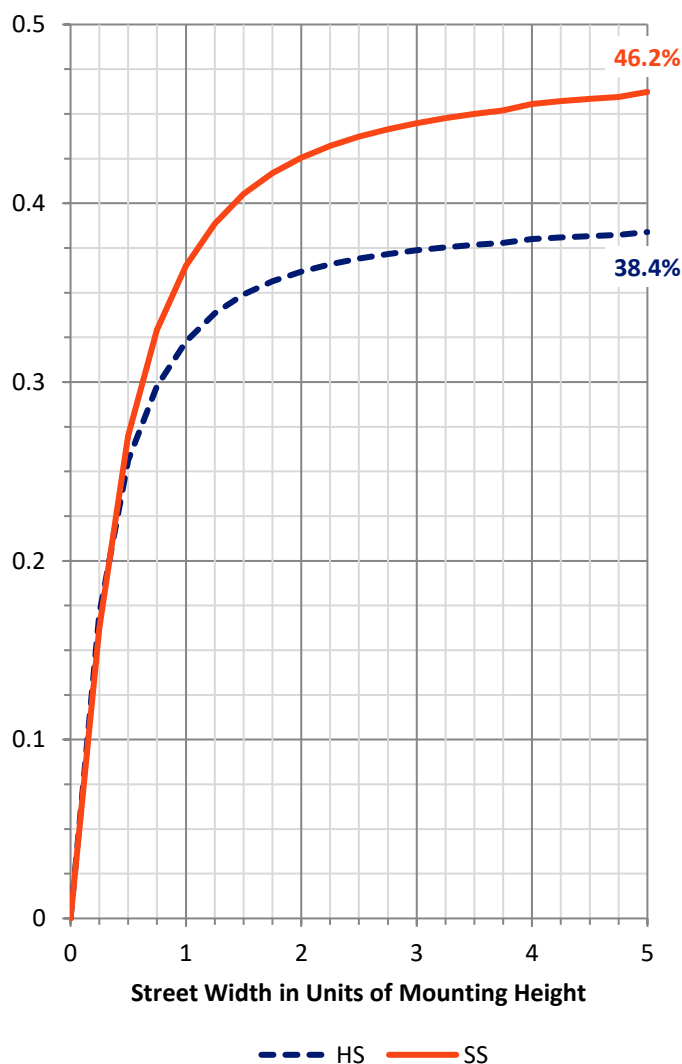
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2044.9	240.1	2285.0
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2457.7	446.3	2904.0
	% Fixture	47.4	8.6	56.0
Total	Lumens	4502.6	686.4	5189.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.1	6.8
10°-20°	749.3	14.4
20°-30°	815.4	15.7
30°-40°	596.9	11.5
40°-50°	501.8	9.7
50°-60°	509.6	9.8
60°-70°	433.2	8.3
70°-80°	323.3	6.2
80°-90°	220.0	4.2
90°-100°	132.1	2.5
100°-110°	75.8	1.5
110°-120°	69.7	1.3
120°-130°	101.3	2.0
130°-140°	139.3	2.7
140°-150°	115.3	2.2
150°-160°	46.9	0.9
160°-170°	5.8	0.1
170°-180°	0.0	0.0
0°-90°	4502.6	86.8
0°-180°	5189.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691673

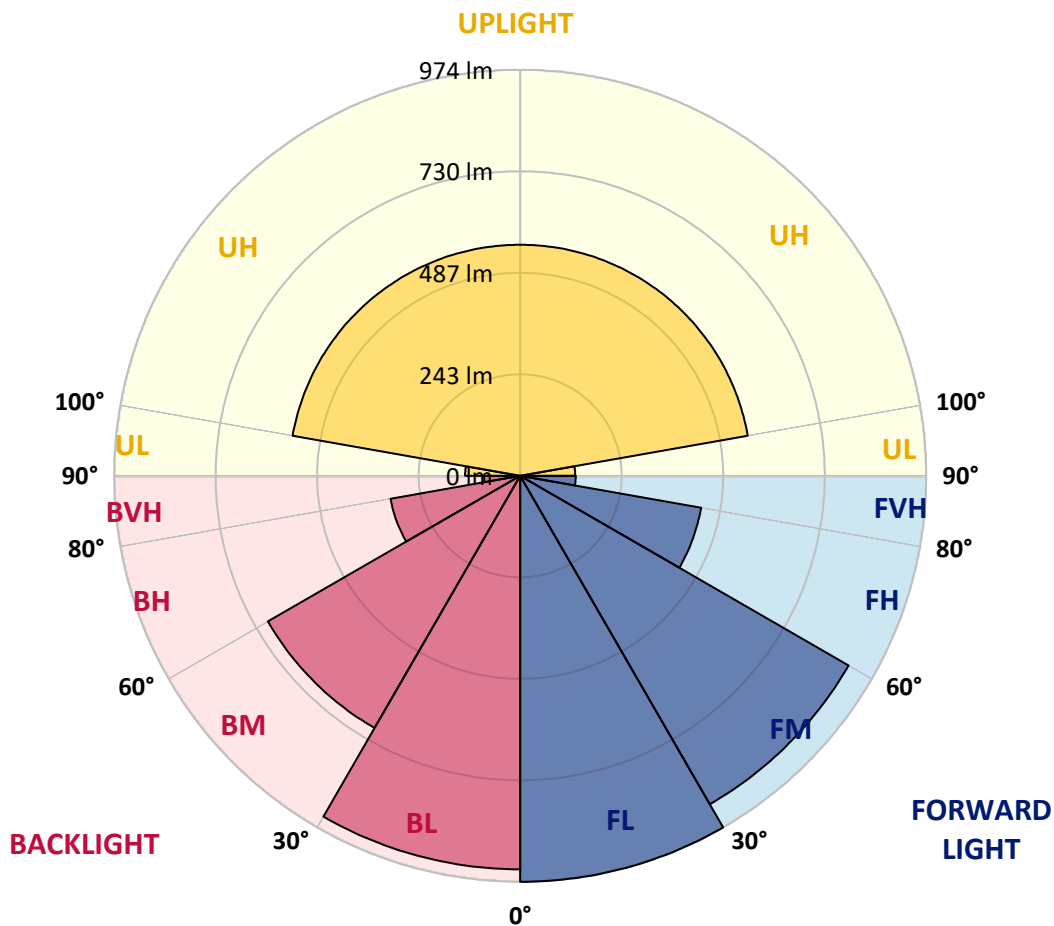
CATALOG NUMBER: CRTK2-C018-D-U-T2-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.9	18.8			
FM (30°-60°)	909.7	17.5			
FH (60°-80°)	440.8	8.5			G0/660
FVH (80°-90°)	133.2	2.6			G2/225
BL (0°-30°)	943.9	18.2	B2/1000		
BM (30°-60°)	698.6	13.5	B1/1000		
BH (60°-80°)	315.7	6.1	B1/500		G1/500
BVH (80°-90°)	86.8	1.7			G1/100
UL (90°-100°)	132.1	2.5		U3/500	
UH (100°-180°)	554.3	10.7		U4/1000	

BUG Rating: B2-U4-G2

Type I Short





REPORT NUMBER: P691673

CATALOG NUMBER: CRTK2-C018-D-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5
2.5°	3678.8	3671.9	3722.7	3734.2	3738.9	3792.0	3863.6	3912.2	4000.0	4085.5	4120.1
5°	2962.4	2948.6	3041.0	3119.6	3214.3	3339.1	3431.5	3542.4	3674.2	3801.3	3861.3
7.5°	2442.5	2461.0	2592.7	2754.5	2907.0	3054.9	3168.1	3262.8	3339.1	3420.0	3436.2
10°	2197.6	2213.7	2343.1	2498.0	2638.9	2789.1	2886.2	2967.1	3015.6	3075.7	3096.5
12.5°	2158.3	2169.8	2257.6	2366.3	2472.6	2608.9	2731.4	2821.5	2876.9	2925.5	2930.1
15°	2197.6	2202.2	2255.3	2327.0	2419.4	2532.6	2673.6	2775.3	2837.7	2858.5	2853.8
17.5°	2262.3	2262.3	2287.7	2347.8	2435.6	2544.2	2678.2	2782.2	2846.9	2856.1	2837.7
20°	2290.0	2294.6	2310.8	2377.8	2456.4	2555.7	2689.8	2777.6	2828.4	2803.0	2770.6
22.5°	2082.0	2072.8	2116.7	2257.6	2433.3	2611.2	2738.3	2837.7	2865.4	2779.9	2710.6
25°	1684.6	1689.2	1716.9	1786.2	1922.6	2086.6	2368.6	2671.3	2881.6	2849.2	2745.2
27.5°	1469.7	1455.8	1462.7	1474.3	1455.8	1421.1	1453.5	1446.6	1441.9	1525.1	1534.4
30°	1079.1	1081.5	1093.0	1113.8	1157.7	1222.4	1291.7	1331.0	1365.7	1430.4	1421.1
32.5°	1072.2	1074.5	1081.5	1099.9	1123.0	1167.0	1210.9	1227.0	1264.0	1317.2	1301.0
35°	1002.9	996.0	1014.4	1030.6	1037.5	1056.0	1090.7	1113.8	1136.9	1173.9	1164.6
37.5°	889.7	892.0	928.9	954.4	961.3	986.7	1019.1	1037.5	1063.0	1095.3	1079.1
40°	792.6	794.9	838.8	866.5	882.7	917.4	965.9	989.0	1030.6	1056.0	1037.5
42.5°	681.7	690.9	721.0	753.3	762.6	783.4	815.7	845.8	898.9	933.6	922.0
45°	568.5	573.1	593.9	626.2	640.1	663.2	693.2	721.0	762.6	790.3	788.0
47.5°	501.4	506.1	524.6	552.3	580.0	610.0	642.4	670.1	709.4	732.5	723.3
50°	473.7	478.3	501.4	533.8	568.5	607.7	647.0	677.1	714.0	727.9	716.3
52.5°	478.3	478.3	510.7	552.3	600.8	654.0	702.5	739.5	769.5	778.7	753.3
55°	452.9	459.8	494.5	552.3	626.2	709.4	792.6	871.2	915.1	905.8	857.3
57.5°	413.6	420.6	446.0	508.4	586.9	686.3	804.2	901.2	954.4	961.3	912.8
60°	390.5	395.1	418.3	466.8	536.1	617.0	723.3	801.8	861.9	880.4	845.8
62.5°	369.7	374.3	392.8	429.8	480.6	543.0	603.1	654.0	702.5	721.0	707.1
65°	346.6	348.9	367.4	399.8	441.4	494.5	545.3	582.3	621.6	633.2	617.0
67.5°	323.5	325.8	342.0	372.0	411.3	459.8	499.1	540.7	580.0	589.3	577.7
70°	302.7	305.0	318.9	346.6	381.3	427.5	464.5	492.2	531.5	540.7	526.9
72.5°	281.9	284.2	298.1	323.5	355.9	397.5	429.8	457.5	489.9	492.2	480.6
75°	261.1	263.4	275.0	298.1	325.8	367.4	397.5	420.6	448.3	448.3	434.4
77.5°	238.0	242.6	251.9	272.7	298.1	337.4	365.1	388.2	411.3	409.0	395.1
80°	217.2	219.5	228.8	247.3	270.4	307.3	335.1	353.6	374.3	372.0	360.5
82.5°	194.1	196.4	203.3	221.8	242.6	277.3	305.0	323.5	342.0	337.4	325.8
85°	171.0	173.3	182.6	196.4	217.2	249.6	275.0	293.5	307.3	302.7	293.5
87.5°	152.5	152.5	159.4	173.3	191.8	221.8	244.9	263.4	275.0	272.7	263.4
90°	131.7	134.0	138.6	150.2	166.4	191.8	214.9	231.1	242.6	238.0	228.8
92.5°	115.5	115.5	120.2	131.7	145.6	168.7	189.5	203.3	212.6	210.3	203.3
95°	99.4	101.7	104.0	113.2	124.8	143.3	161.8	175.6	184.9	182.6	177.9
97.5°	87.8	90.1	92.4	97.1	108.6	120.2	136.3	147.9	157.1	154.8	150.2
100°	80.9	80.9	80.9	85.5	92.4	101.7	113.2	122.5	127.1	129.4	124.8
102.5°	73.9	73.9	76.3	76.3	80.9	85.5	92.4	99.4	101.7	101.7	101.7
105°	71.6	71.6	73.9	73.9	76.3	78.6	83.2	85.5	87.8	87.8	85.5
107.5°	71.6	71.6	71.6	71.6	73.9	76.3	78.6	80.9	80.9	80.9	78.6
110°	73.9	73.9	73.9	73.9	73.9	76.3	76.3	78.6	78.6	76.3	76.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	76.3	76.3	76.3	76.3	76.3	78.6	78.6	78.6	78.6	76.3	76.3
115°	80.9	80.9	80.9	83.2	83.2	83.2	83.2	83.2	83.2	80.9	78.6
117.5°	90.1	90.1	90.1	90.1	92.4	92.4	92.4	92.4	92.4	87.8	87.8
120°	101.7	99.4	101.7	104.0	106.3	106.3	106.3	106.3	106.3	101.7	99.4
122.5°	113.2	113.2	115.5	120.2	124.8	127.1	124.8	124.8	124.8	117.9	115.5
125°	127.1	127.1	134.0	143.3	150.2	152.5	150.2	150.2	150.2	143.3	138.6
127.5°	143.3	143.3	152.5	166.4	177.9	184.9	182.6	182.6	182.6	171.0	164.1
130°	159.4	159.4	173.3	191.8	210.3	214.9	217.2	219.5	219.5	205.7	196.4
132.5°	171.0	173.3	189.5	214.9	238.0	244.9	251.9	254.2	254.2	238.0	224.1
135°	182.6	184.9	205.7	235.7	261.1	277.3	284.2	286.5	288.8	270.4	254.2
137.5°	189.5	191.8	214.9	249.6	275.0	295.8	312.0	316.6	316.6	295.8	275.0
140°	189.5	191.8	217.2	249.6	277.3	302.7	321.2	330.4	330.4	309.6	291.2
142.5°	184.9	189.5	212.6	244.9	272.7	298.1	318.9	328.1	328.1	309.6	291.2
145°	175.6	177.9	201.0	228.8	256.5	286.5	309.6	318.9	318.9	300.4	281.9
147.5°	159.4	161.8	180.2	205.7	233.4	263.4	286.5	298.1	295.8	279.6	263.4
150°	138.6	138.6	154.8	175.6	203.3	231.1	254.2	265.7	265.7	249.6	235.7
152.5°	113.2	113.2	124.8	141.0	164.1	191.8	210.3	221.8	221.8	210.3	198.7
155°	87.8	87.8	97.1	108.6	127.1	147.9	161.8	173.3	173.3	164.1	154.8
157.5°	62.4	62.4	71.6	80.9	94.7	110.9	122.5	129.4	131.7	122.5	117.9
160°	41.6	41.6	46.2	53.1	64.7	76.3	83.2	90.1	92.4	85.5	83.2
162.5°	23.1	23.1	25.4	32.4	39.3	46.2	53.1	57.8	57.8	55.5	53.1
165°	6.9	6.9	9.2	11.6	16.2	20.8	23.1	25.4	27.7	27.7	25.4
167.5°	0.0	0.0	2.3	2.3	2.3	2.3	4.6	4.6	6.9	6.9	6.9
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: P691673

CATALOG NUMBER: CRTK2-C018-D-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5	4561.5
2.5°	4191.8	4321.2	4462.1	4598.5	4764.9	4938.2	5097.6	5206.2	5264.0	5282.5	5282.5
5°	3907.6	4025.4	4129.4	4258.8	4459.8	4721.0	5009.8	5250.1	5386.5	5402.6	5404.9
7.5°	3463.9	3560.9	3669.5	3785.1	3963.0	4196.4	4577.7	4965.9	5187.7	5229.3	5213.2
10°	3101.1	3161.2	3225.9	3269.8	3394.6	3567.9	3826.7	4208.0	4480.6	4513.0	4536.1
12.5°	2932.4	2941.6	2923.2	2932.4	2974.0	3054.9	3182.0	3401.5	3579.4	3609.5	3625.6
15°	2846.9	2800.7	2726.7	2657.4	2620.4	2627.4	2655.1	2745.2	2775.3	2826.1	2803.0
17.5°	2807.6	2703.6	2588.1	2454.1	2370.9	2285.4	2239.2	2223.0	2211.4	2213.7	2234.5
20°	2708.3	2590.4	2405.5	2229.9	2095.9	1978.0	1878.7	1807.0	1767.8	1749.3	1763.1
22.5°	2604.3	2421.7	2204.5	2015.0	1823.2	1673.0	1559.8	1455.8	1398.0	1414.2	1395.7
25°	2606.6	2333.9	2075.1	1825.5	1645.3	1446.6	1266.3	1157.7	1063.0	1081.5	1106.9
27.5°	1643.0	1571.3	1386.5	1240.9	1060.7	961.3	871.2	794.9	741.8	744.1	737.1
30°	1393.4	1319.5	1227.0	1111.5	975.2	859.6	755.6	667.8	617.0	603.1	600.8
32.5°	1287.1	1224.7	1139.2	1026.0	901.2	785.7	681.7	600.8	550.0	547.7	547.7
35°	1146.2	1088.4	1016.7	919.7	813.4	707.1	610.0	540.7	499.1	499.1	496.8
37.5°	1058.3	1007.5	938.2	848.1	753.3	647.0	561.5	499.1	455.2	452.9	455.2
40°	1012.1	959.0	892.0	806.5	711.7	610.0	529.2	464.5	432.1	429.8	427.5
42.5°	919.7	878.1	820.3	741.8	658.6	568.5	492.2	434.4	406.7	404.4	406.7
45°	781.0	751.0	711.7	654.0	584.6	508.4	441.4	397.5	369.7	369.7	369.7
47.5°	716.3	688.6	644.7	586.9	526.9	455.2	399.8	362.8	337.4	337.4	337.4
50°	700.2	665.5	607.7	543.0	478.3	415.9	365.1	328.1	309.6	307.3	309.6
52.5°	723.3	670.1	591.6	515.3	443.7	383.6	335.1	300.4	281.9	281.9	281.9
55°	806.5	709.4	605.4	508.4	422.9	355.9	307.3	272.7	254.2	251.9	254.2
57.5°	861.9	739.5	610.0	501.4	409.0	337.4	284.2	247.3	228.8	226.5	228.8
60°	813.4	714.0	589.3	483.0	397.5	323.5	268.1	231.1	212.6	210.3	210.3
62.5°	674.8	617.0	526.9	436.7	367.4	302.7	251.9	217.2	198.7	196.4	198.7
65°	598.5	547.7	469.1	397.5	337.4	281.9	238.0	208.0	189.5	189.5	189.5
67.5°	556.9	510.7	436.7	367.4	312.0	261.1	219.5	191.8	175.6	175.6	175.6
70°	508.4	462.2	395.1	332.8	281.9	238.0	201.0	173.3	159.4	157.1	159.4
72.5°	466.8	420.6	358.2	300.4	254.2	214.9	182.6	157.1	145.6	143.3	145.6
75°	420.6	376.7	316.6	265.7	226.5	191.8	164.1	141.0	131.7	129.4	129.4
77.5°	381.3	339.7	284.2	238.0	203.3	171.0	145.6	129.4	120.2	117.9	117.9
80°	346.6	307.3	254.2	212.6	180.2	152.5	131.7	115.5	106.3	106.3	106.3
82.5°	309.6	275.0	226.5	187.2	159.4	136.3	115.5	101.7	94.7	94.7	94.7
85°	279.6	244.9	198.7	166.4	138.6	117.9	101.7	90.1	83.2	83.2	83.2
87.5°	247.3	217.2	175.6	145.6	122.5	104.0	87.8	76.3	73.9	71.6	71.6
90°	214.9	187.2	150.2	124.8	104.0	87.8	73.9	64.7	62.4	60.1	60.1
92.5°	191.8	166.4	136.3	113.2	94.7	78.6	69.3	60.1	57.8	57.8	55.5
95°	166.4	145.6	120.2	101.7	85.5	73.9	64.7	57.8	55.5	55.5	53.1
97.5°	143.3	124.8	106.3	92.4	78.6	69.3	60.1	55.5	50.8	50.8	50.8
100°	120.2	106.3	92.4	78.6	71.6	62.4	55.5	50.8	48.5	46.2	46.2
102.5°	97.1	87.8	76.3	69.3	60.1	53.1	48.5	43.9	41.6	41.6	41.6
105°	83.2	76.3	69.3	62.4	55.5	48.5	43.9	39.3	37.0	37.0	37.0
107.5°	76.3	71.6	64.7	57.8	53.1	46.2	41.6	34.7	32.4	34.7	34.7
110°	73.9	69.3	62.4	57.8	50.8	46.2	41.6	32.4	30.0	32.4	32.4



REPORT NUMBER: P691673
 CATALOG NUMBER: CRTK2-C018-D-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	73.9	69.3	64.7	57.8	53.1	46.2	41.6	32.4	30.0	30.0	30.0
115°	76.3	73.9	67.0	62.4	55.5	48.5	41.6	32.4	30.0	30.0	30.0
117.5°	85.5	80.9	73.9	67.0	60.1	50.8	43.9	32.4	30.0	30.0	30.0
120°	94.7	90.1	83.2	73.9	64.7	55.5	46.2	32.4	27.7	30.0	30.0
122.5°	110.9	104.0	94.7	83.2	71.6	60.1	46.2	34.7	25.4	30.0	30.0
125°	131.7	122.5	108.6	92.4	78.6	64.7	48.5	34.7	27.7	30.0	30.0
127.5°	154.8	143.3	124.8	104.0	85.5	67.0	50.8	34.7	27.7	27.7	30.0
130°	184.9	166.4	141.0	115.5	92.4	71.6	50.8	34.7	27.7	27.7	27.7
132.5°	210.3	187.2	154.8	124.8	97.1	73.9	50.8	34.7	25.4	25.4	25.4
135°	235.7	205.7	166.4	131.7	101.7	73.9	50.8	32.4	25.4	25.4	25.4
137.5°	256.5	217.2	175.6	134.0	101.7	71.6	48.5	30.0	23.1	23.1	23.1
140°	268.1	224.1	177.9	134.0	97.1	69.3	43.9	27.7	20.8	20.8	20.8
142.5°	268.1	221.8	175.6	129.4	92.4	64.7	39.3	23.1	18.5	18.5	18.5
145°	258.8	212.6	166.4	122.5	85.5	57.8	34.7	20.8	13.9	13.9	16.2
147.5°	242.6	196.4	152.5	110.9	76.3	48.5	30.0	16.2	11.6	11.6	11.6
150°	214.9	173.3	131.7	97.1	64.7	41.6	25.4	13.9	9.2	9.2	9.2
152.5°	180.2	143.3	110.9	80.9	53.1	32.4	18.5	11.6	6.9	6.9	6.9
155°	143.3	113.2	87.8	62.4	39.3	25.4	13.9	9.2	6.9	6.9	6.9
157.5°	106.3	85.5	64.7	46.2	30.0	18.5	11.6	6.9	4.6	4.6	4.6
160°	73.9	60.1	43.9	30.0	18.5	11.6	6.9	4.6	2.3	2.3	2.3
162.5°	48.5	37.0	27.7	18.5	11.6	6.9	4.6	2.3	2.3	2.3	2.3
165°	23.1	18.5	13.9	9.2	4.6	4.6	2.3	2.3	0.0	0.0	0.0
167.5°	6.9	4.6	2.3	2.3	2.3	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)