

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: P691045

Luminaire Tested: **CRTK2-C013-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691045
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-C013-5TLD-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: 2629 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - G1

Input Watts (W): 23.2
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



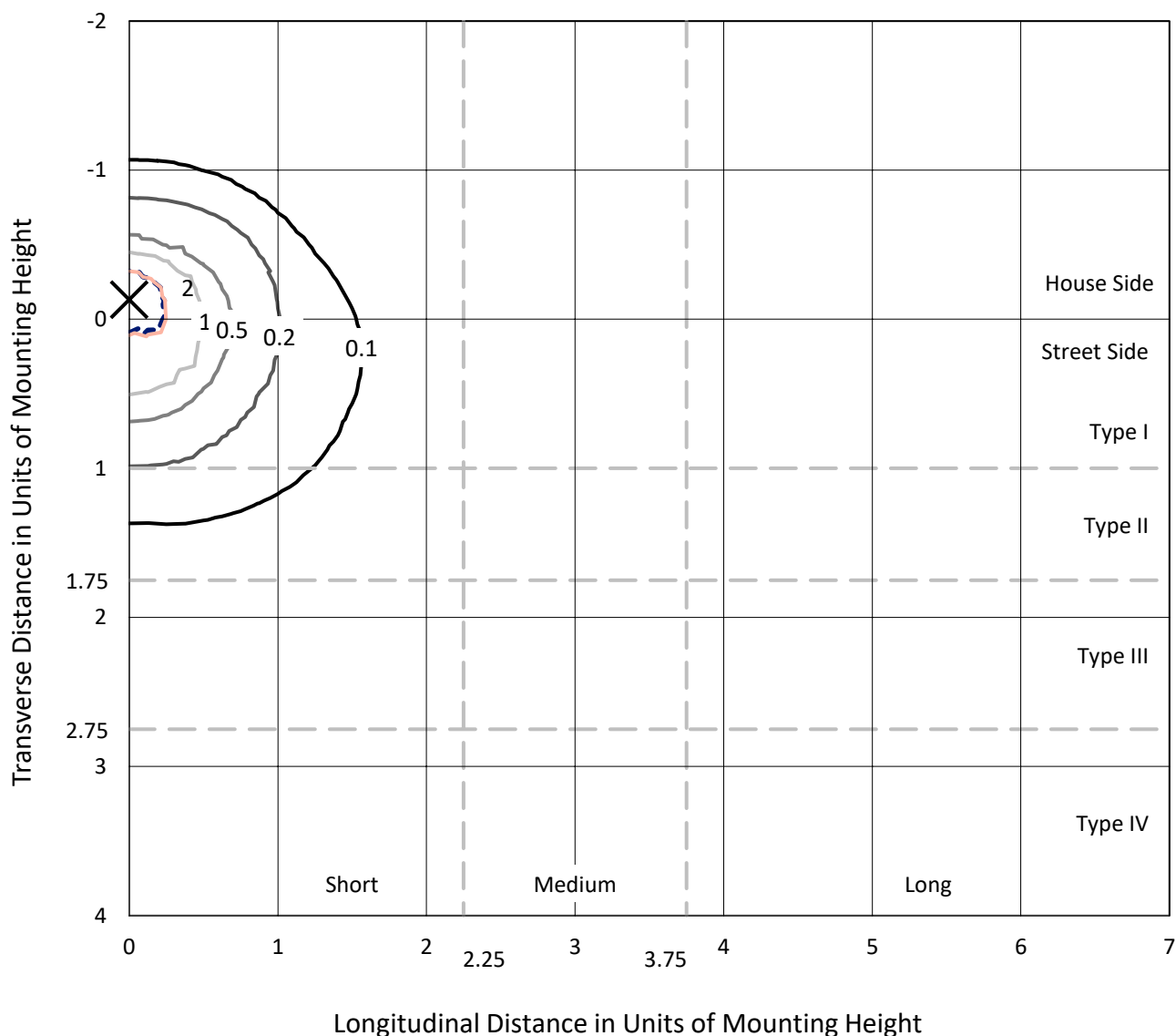
REPORT NUMBER: P691045

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



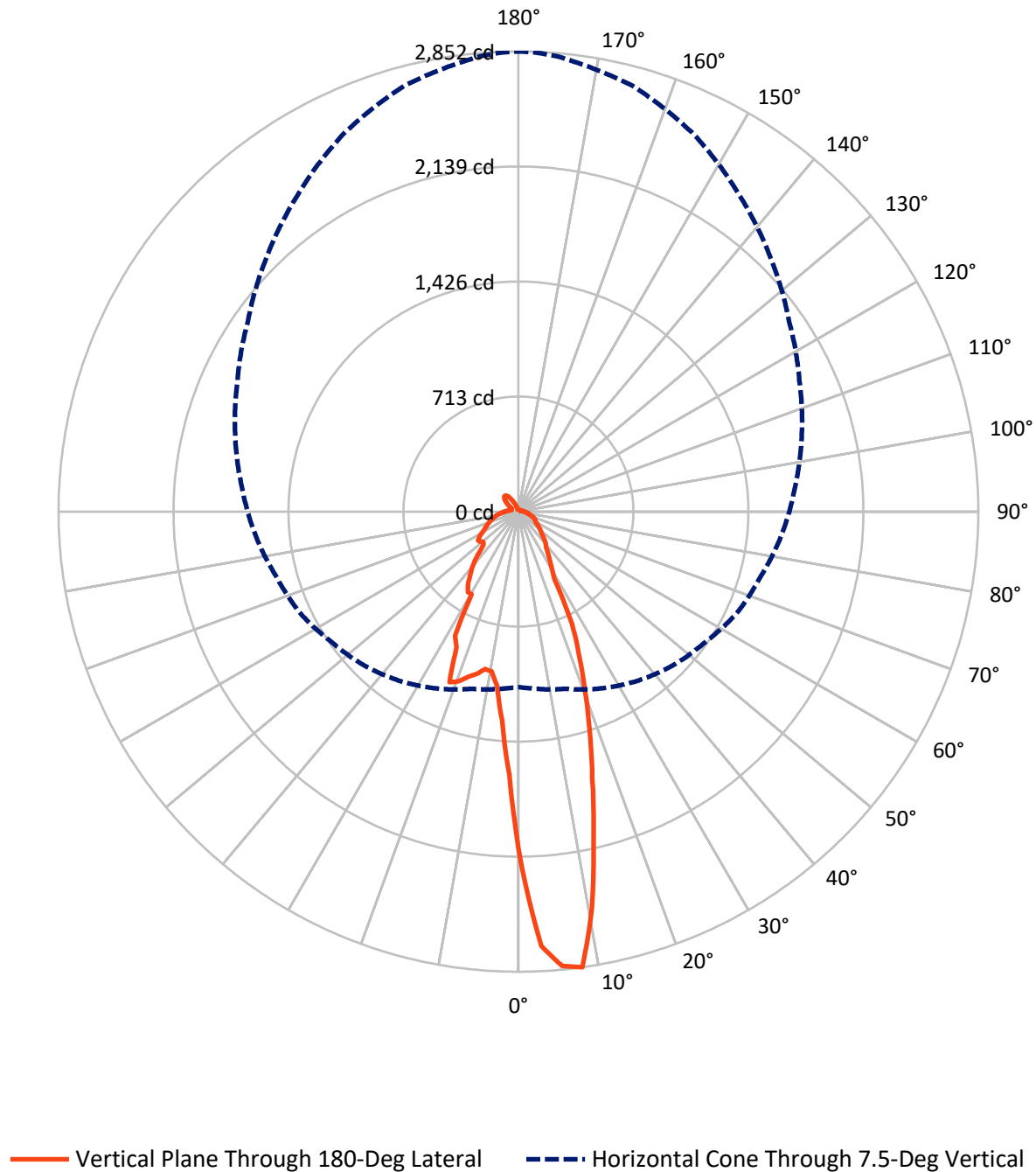
Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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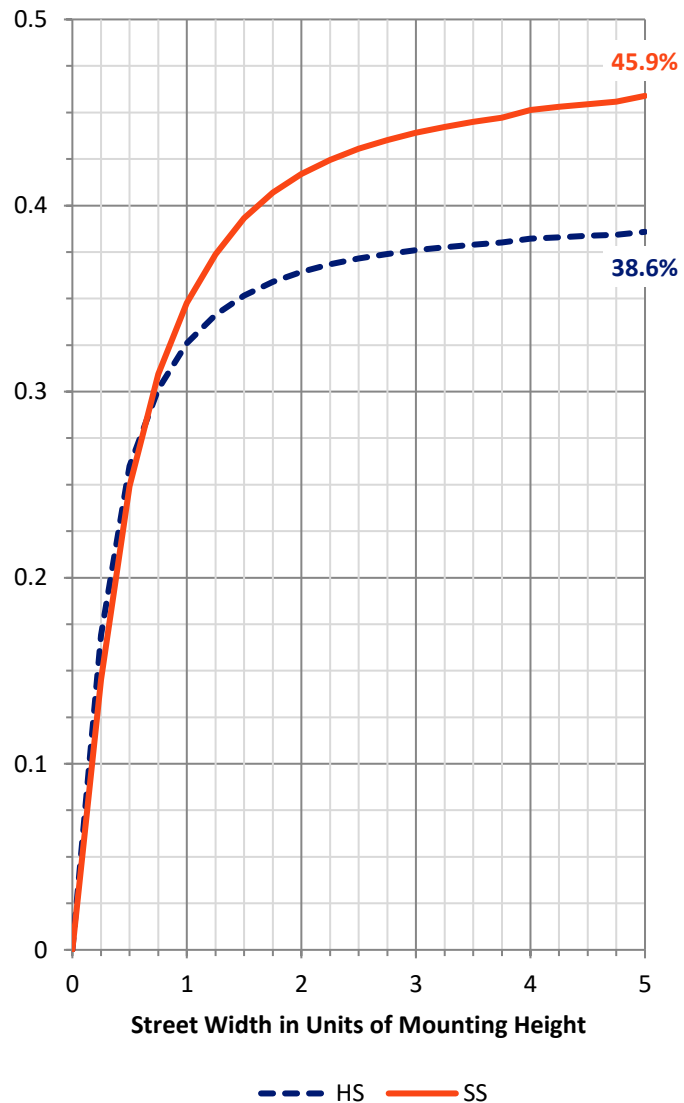
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1040.9	108.5	1149.4
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1241.2	238.4	1479.6
	% Fixture	47.2	9.1	56.3
Total	Lumens	2282.1	346.9	2629.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	6.7
10°-20°	376.8	14.3
20°-30°	416.1	15.8
30°-40°	301.8	11.5
40°-50°	254.3	9.7
50°-60°	259.6	9.9
60°-70°	221.2	8.4
70°-80°	164.9	6.3
80°-90°	111.3	4.2
90°-100°	66.5	2.5
100°-110°	38.3	1.5
110°-120°	35.8	1.4
120°-130°	52.1	2.0
130°-140°	70.8	2.7
140°-150°	57.6	2.2
150°-160°	23.0	0.9
160°-170°	2.8	0.1
170°-180°	0.0	0.0
0°-90°	2282.1	86.8
0°-180°	2629.0	100.0

Coefficient of Utilization



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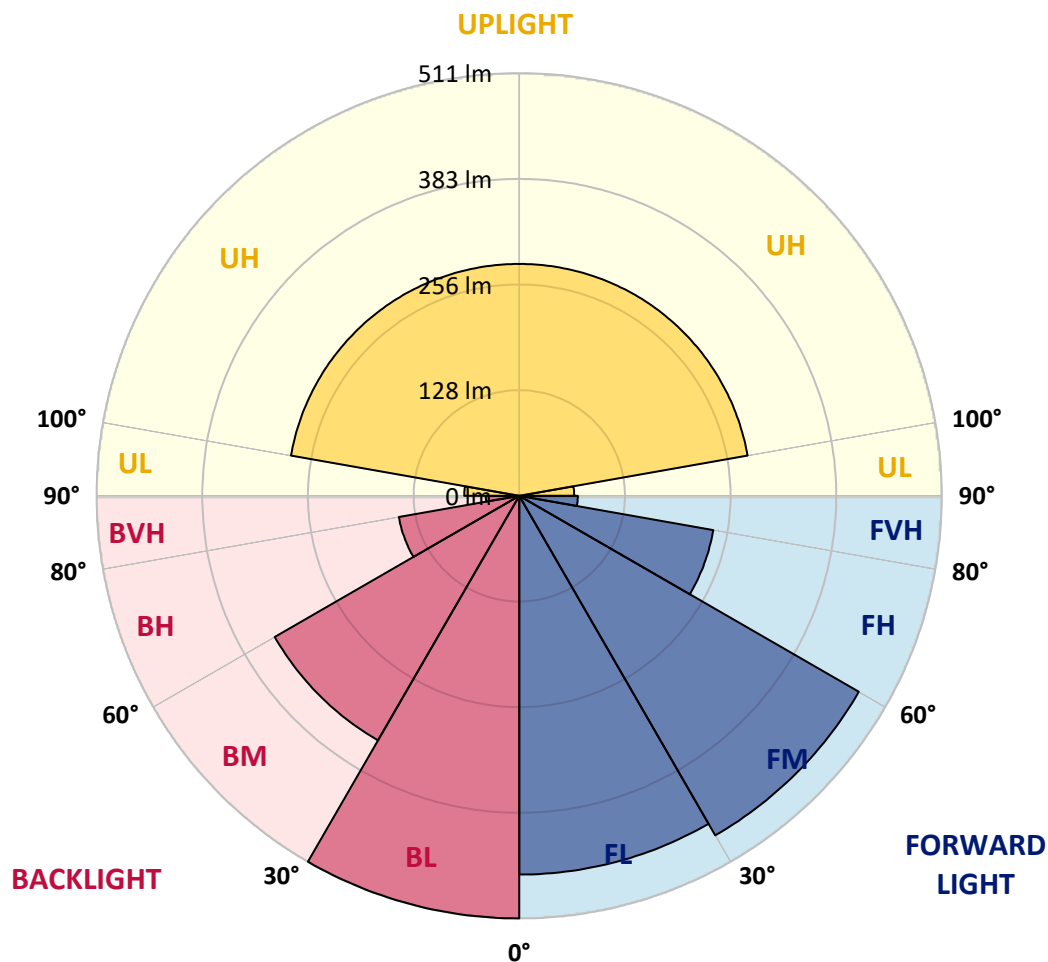
CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	458.0	17.4			
FM	(30°-60°)	474.1	18.0			
FH	(60°-80°)	238.3	9.1			G0/660
FVH	(80°-90°)	70.8	2.7			G1/100
BL	(0°-30°)	511.1	19.4	B2/1000		
BM	(30°-60°)	341.5	13.0	B1/1000		
BH	(60°-80°)	147.8	5.6	B1/500		G1/500
BVH	(80°-90°)	40.5	1.5			G1/100
UL	(90°-100°)	66.5	2.5		U3/500	
UH	(100°-180°)	280.4	10.7		U3/500	

BUG Rating: B2-U3-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3
2.5°	1631.6	1669.4	1672.9	1714.2	1745.1	1773.8	1794.5	1854.1	1915.0	1972.3	2005.6
5°	1295.4	1313.7	1347.0	1391.8	1449.1	1493.9	1558.1	1641.9	1722.2	1823.2	1872.5
7.5°	1087.7	1101.5	1137.0	1209.3	1281.6	1350.4	1412.4	1492.7	1554.7	1638.4	1679.7
10°	1005.1	1013.1	1043.0	1093.4	1162.3	1219.6	1273.6	1334.4	1389.5	1466.3	1496.2
12.5°	997.1	1000.5	1024.6	1060.2	1100.3	1147.4	1192.1	1243.7	1302.3	1363.1	1386.0
15°	1040.7	1038.4	1046.4	1067.0	1090.0	1126.7	1168.0	1215.1	1271.3	1316.0	1334.4
17.5°	1071.6	1070.5	1085.4	1094.6	1116.4	1138.2	1179.5	1216.2	1271.3	1306.8	1317.2
20°	1116.4	1118.7	1123.3	1140.5	1149.7	1164.6	1189.8	1211.6	1258.7	1279.3	1277.0
22.5°	1140.5	1139.3	1158.8	1199.0	1209.3	1217.4	1221.9	1231.1	1257.5	1256.4	1239.2
25°	924.8	927.1	931.7	966.1	1009.7	1080.8	1139.3	1231.1	1280.5	1262.1	1225.4
27.5°	864.0	857.1	833.0	813.5	755.0	716.0	679.2	663.2	671.2	685.0	722.8
30°	588.6	589.7	592.0	595.5	601.2	616.1	626.5	627.6	635.6	658.6	650.6
32.5°	589.7	590.9	587.5	590.9	588.6	594.3	593.2	588.6	595.5	616.1	608.1
35°	554.2	551.9	554.2	555.3	542.7	538.1	537.0	533.5	538.1	548.4	541.6
37.5°	499.1	498.0	508.3	514.0	503.7	503.7	501.4	496.8	500.3	509.4	500.3
40°	450.9	452.1	467.0	476.2	472.7	476.2	479.6	478.5	486.5	489.9	478.5
42.5°	398.1	395.8	410.8	417.6	410.8	413.1	411.9	413.1	429.1	436.0	428.0
45°	332.7	336.2	343.1	352.2	351.1	354.5	353.4	355.7	366.0	369.5	363.7
47.5°	296.0	298.3	306.3	316.7	322.4	328.1	328.1	329.3	336.2	337.3	331.6
50°	288.0	290.3	300.6	312.1	321.3	328.1	331.6	330.4	333.9	331.6	323.6
52.5°	301.8	301.8	317.8	331.6	343.1	355.7	360.3	355.7	355.7	346.5	333.9
55°	307.5	308.6	328.1	352.2	374.0	397.0	411.9	410.8	409.6	394.7	371.7
57.5°	289.1	292.6	312.1	339.6	369.5	406.2	428.0	431.4	431.4	411.9	386.7
60°	262.7	265.0	280.0	302.9	332.7	360.3	383.2	385.5	392.4	382.1	359.1
62.5°	240.9	243.2	255.9	273.1	294.9	312.1	319.0	319.0	322.4	319.0	302.9
65°	224.9	226.0	236.4	251.3	266.2	280.0	286.8	284.5	289.1	284.5	271.9
67.5°	210.0	210.0	219.1	230.6	244.4	260.5	265.0	267.3	271.9	266.2	254.7
70°	195.1	196.2	205.4	214.6	227.2	238.7	243.2	244.4	250.1	243.2	235.2
72.5°	182.4	182.4	190.5	199.6	208.8	220.3	223.7	226.0	229.5	222.6	215.7
75°	167.5	168.7	175.5	183.6	191.6	203.1	206.5	207.7	211.1	203.1	196.2
77.5°	153.7	154.9	160.6	167.5	175.5	184.7	188.2	190.5	191.6	184.7	177.8
80°	140.0	141.1	145.7	152.6	159.5	168.7	171.0	172.1	174.4	166.4	161.8
82.5°	127.4	127.4	130.8	136.5	143.4	151.5	154.9	156.0	157.2	150.3	145.7
85°	112.4	112.4	115.9	121.6	127.4	135.4	138.8	140.0	140.0	134.2	129.7
87.5°	99.8	99.8	102.1	106.7	111.3	119.3	122.8	125.1	123.9	119.3	114.7
90°	87.2	87.2	89.5	92.9	97.5	104.4	107.9	109.0	109.0	103.3	99.8
92.5°	75.7	75.7	78.0	81.5	84.9	90.6	94.1	96.4	96.4	91.8	88.3
95°	65.4	65.4	66.5	70.0	73.4	78.0	80.3	82.6	82.6	80.3	76.9
97.5°	56.2	56.2	57.4	59.7	62.0	65.4	67.7	70.0	70.0	68.8	66.5
100°	49.3	49.3	49.3	50.5	52.8	53.9	56.2	58.5	58.5	57.4	56.2
102.5°	44.7	44.7	44.7	44.7	44.7	45.9	45.9	47.0	47.0	47.0	45.9
105°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	41.3	40.2	39.0
107.5°	42.5	41.3	41.3	41.3	41.3	40.2	40.2	40.2	39.0	37.9	36.7
110°	42.5	42.5	42.5	42.5	41.3	40.2	40.2	39.0	37.9	36.7	35.6



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CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	44.7	44.7	44.7	43.6	42.5	42.5	41.3	40.2	39.0	36.7	35.6
115°	48.2	48.2	48.2	48.2	47.0	44.7	43.6	42.5	40.2	39.0	37.9
117.5°	53.9	53.9	53.9	53.9	51.6	50.5	48.2	47.0	44.7	42.5	41.3
120°	60.8	60.8	62.0	62.0	60.8	58.5	55.1	53.9	51.6	48.2	45.9
122.5°	71.1	70.0	72.3	72.3	72.3	70.0	65.4	63.1	60.8	56.2	53.9
125°	81.5	81.5	83.8	86.1	87.2	83.8	79.2	75.7	72.3	66.5	63.1
127.5°	92.9	92.9	97.5	102.1	104.4	101.0	95.2	91.8	87.2	79.2	74.6
130°	104.4	104.4	111.3	118.2	121.6	119.3	113.6	109.0	103.3	92.9	87.2
132.5°	114.7	114.7	122.8	131.9	136.5	135.4	129.7	125.1	120.5	107.9	99.8
135°	122.8	123.9	134.2	144.6	150.3	151.5	145.7	140.0	134.2	120.5	111.3
137.5°	127.4	129.7	140.0	152.6	158.3	161.8	158.3	152.6	145.7	130.8	120.5
140°	128.5	129.7	141.1	153.7	159.5	164.1	164.1	157.2	151.5	136.5	125.1
142.5°	125.1	126.2	137.7	149.2	154.9	160.6	161.8	156.0	150.3	136.5	125.1
145°	117.0	119.3	129.7	138.8	146.9	152.6	154.9	151.5	144.6	131.9	121.6
147.5°	106.7	107.9	117.0	125.1	133.1	140.0	143.4	140.0	134.2	122.8	113.6
150°	90.6	91.8	98.7	105.6	114.7	121.6	126.2	123.9	119.3	110.1	101.0
152.5°	73.4	73.4	79.2	84.9	92.9	99.8	104.4	103.3	99.8	91.8	84.9
155°	56.2	56.2	59.7	64.3	71.1	75.7	80.3	80.3	78.0	72.3	66.5
157.5°	40.2	40.2	43.6	47.0	51.6	56.2	59.7	59.7	58.5	53.9	50.5
160°	26.4	26.4	28.7	31.0	35.6	37.9	41.3	41.3	40.2	37.9	35.6
162.5°	13.8	13.8	16.1	17.2	20.7	22.9	25.2	26.4	26.4	24.1	22.9
165°	4.6	4.6	4.6	5.7	8.0	10.3	11.5	12.6	12.6	11.5	11.5
167.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.3	3.4	3.4	3.4	3.4
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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3	2198.3
2.5°	2041.2	2145.6	2235.1	2329.1	2433.6	2521.9	2611.4	2660.7	2703.2	2695.2	2695.2
5°	1920.7	2025.1	2134.1	2248.8	2390.0	2534.5	2672.2	2770.9	2822.5	2830.5	2829.4
7.5°	1721.0	1818.6	1921.8	2049.2	2214.4	2391.1	2578.1	2733.0	2830.5	2848.9	2852.3
10°	1523.7	1597.1	1684.3	1771.5	1919.5	2081.3	2248.8	2372.7	2468.0	2481.7	2497.8
12.5°	1405.5	1445.7	1501.9	1562.7	1659.1	1777.3	1915.0	1986.1	2046.9	2053.8	2068.7
15°	1344.7	1364.2	1378.0	1399.8	1457.2	1530.6	1593.7	1663.7	1688.9	1706.1	1714.2
17.5°	1320.6	1318.3	1304.6	1304.6	1309.1	1336.7	1376.8	1400.9	1417.0	1425.0	1427.3
20°	1271.3	1250.6	1223.1	1186.4	1166.9	1157.7	1168.0	1173.8	1169.2	1163.4	1173.8
22.5°	1219.6	1176.0	1126.7	1084.3	1033.8	1002.8	973.0	962.6	950.0	958.0	958.0
25°	1203.6	1126.7	1047.5	976.4	900.7	849.0	794.0	774.5	755.0	771.0	771.0
27.5°	711.4	711.4	666.6	607.0	541.6	514.0	492.2	479.6	471.6	475.0	475.0
30°	636.8	607.0	579.4	541.6	491.1	457.8	429.1	411.9	403.9	401.6	403.9
32.5°	590.9	567.9	534.7	496.8	452.1	415.3	383.2	366.0	353.4	355.7	356.8
35°	528.9	504.8	476.2	440.6	402.7	368.3	339.6	322.4	310.9	310.9	312.1
37.5°	489.9	465.8	438.3	406.2	369.5	336.2	309.8	289.1	278.8	277.7	277.7
40°	465.8	441.7	416.5	384.4	349.9	315.5	289.1	270.8	258.2	258.2	259.3
42.5°	422.2	399.3	377.5	348.8	317.8	288.0	262.7	246.7	234.1	231.8	234.1
45°	355.7	343.1	325.9	306.3	280.0	255.9	232.9	219.1	208.8	208.8	207.7
47.5°	325.9	313.2	294.9	275.4	253.6	229.5	211.1	198.5	189.3	189.3	189.3
50°	314.4	300.6	277.7	255.9	230.6	210.0	193.9	181.3	174.4	174.4	173.3
52.5°	320.1	298.3	268.5	237.5	213.4	192.8	176.7	164.1	158.3	158.3	157.2
55°	351.1	312.1	268.5	230.6	201.9	179.0	162.9	149.2	143.4	143.4	143.4
57.5°	363.7	320.1	266.2	223.7	191.6	167.5	148.0	135.4	129.7	129.7	128.5
60°	340.8	304.1	254.7	214.6	183.6	159.5	141.1	128.5	121.6	121.6	120.5
62.5°	290.3	263.9	226.0	196.2	172.1	150.3	134.2	121.6	115.9	115.9	115.9
65°	260.5	237.5	207.7	181.3	159.5	141.1	126.2	115.9	110.1	110.1	110.1
67.5°	243.2	223.7	193.9	168.7	146.9	129.7	115.9	106.7	102.1	101.0	102.1
70°	224.9	204.2	176.7	152.6	133.1	117.0	104.4	95.2	90.6	90.6	90.6
72.5°	205.4	185.9	159.5	137.7	118.2	105.6	92.9	84.9	80.3	80.3	79.2
75°	187.0	167.5	142.3	121.6	105.6	92.9	82.6	75.7	71.1	71.1	71.1
77.5°	169.8	151.5	127.4	109.0	94.1	83.8	73.4	67.7	64.3	64.3	63.1
80°	153.7	136.5	113.6	97.5	83.8	74.6	65.4	60.8	57.4	57.4	57.4
82.5°	137.7	121.6	101.0	86.1	74.6	65.4	58.5	53.9	51.6	50.5	51.6
85°	122.8	107.9	89.5	75.7	65.4	57.4	51.6	47.0	44.7	44.7	44.7
87.5°	109.0	95.2	79.2	66.5	57.4	50.5	44.7	41.3	40.2	39.0	39.0
90°	94.1	81.5	67.7	57.4	49.3	43.6	37.9	35.6	33.3	33.3	33.3
92.5°	83.8	73.4	60.8	51.6	44.7	40.2	35.6	33.3	31.0	31.0	31.0
95°	73.4	64.3	53.9	47.0	41.3	36.7	33.3	31.0	29.8	29.8	29.8
97.5°	63.1	56.2	48.2	42.5	37.9	34.4	31.0	28.7	27.5	27.5	27.5
100°	52.8	48.2	42.5	37.9	34.4	31.0	27.5	26.4	25.2	25.2	25.2
102.5°	43.6	40.2	35.6	32.1	28.7	26.4	24.1	22.9	21.8	21.8	21.8
105°	37.9	35.6	32.1	28.7	26.4	24.1	21.8	19.5	19.5	19.5	19.5
107.5°	35.6	32.1	29.8	27.5	25.2	21.8	20.7	18.4	17.2	17.2	17.2
110°	34.4	32.1	29.8	26.4	24.1	21.8	19.5	17.2	16.1	16.1	16.1



REPORT NUMBER: P691045

CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	34.4	32.1	29.8	27.5	25.2	21.8	20.7	16.1	14.9	14.9	14.9
115°	36.7	34.4	31.0	28.7	25.2	22.9	20.7	16.1	14.9	14.9	14.9
117.5°	39.0	36.7	33.3	31.0	27.5	24.1	20.7	16.1	14.9	14.9	14.9
120°	44.7	41.3	36.7	33.3	29.8	25.2	21.8	16.1	13.8	14.9	14.9
122.5°	50.5	47.0	41.3	36.7	32.1	27.5	21.8	16.1	13.8	14.9	14.9
125°	59.7	53.9	47.0	41.3	34.4	28.7	22.9	16.1	12.6	13.8	14.9
127.5°	70.0	63.1	53.9	45.9	37.9	29.8	22.9	16.1	12.6	13.8	13.8
130°	81.5	72.3	60.8	49.3	40.2	31.0	22.9	16.1	12.6	13.8	13.8
132.5°	92.9	80.3	66.5	53.9	42.5	32.1	22.9	14.9	12.6	12.6	12.6
135°	102.1	87.2	71.1	56.2	43.6	32.1	21.8	14.9	11.5	11.5	11.5
137.5°	110.1	92.9	74.6	57.4	43.6	31.0	20.7	13.8	10.3	10.3	10.3
140°	114.7	95.2	75.7	56.2	41.3	29.8	19.5	12.6	9.2	9.2	9.2
142.5°	114.7	94.1	73.4	55.1	39.0	27.5	17.2	10.3	8.0	8.0	8.0
145°	110.1	89.5	70.0	51.6	35.6	24.1	14.9	9.2	6.9	6.9	6.9
147.5°	103.3	82.6	64.3	47.0	32.1	20.7	12.6	8.0	5.7	5.7	5.7
150°	91.8	73.4	56.2	40.2	27.5	17.2	10.3	6.9	4.6	4.6	4.6
152.5°	76.9	60.8	47.0	33.3	22.9	13.8	9.2	4.6	3.4	3.4	3.4
155°	60.8	48.2	36.7	26.4	17.2	10.3	6.9	4.6	2.3	2.3	2.3
157.5°	45.9	35.6	27.5	19.5	12.6	8.0	4.6	3.4	2.3	2.3	2.3
160°	32.1	25.2	18.4	12.6	8.0	5.7	3.4	2.3	1.1	1.1	1.1
162.5°	20.7	16.1	11.5	8.0	4.6	3.4	2.3	1.1	1.1	1.1	0.0
165°	10.3	8.0	5.7	3.4	2.3	1.1	1.1	1.1	0.0	0.0	0.0
167.5°	2.3	2.3	2.3	1.1	1.1	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)