

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: P691013

Luminaire Tested: **CRTK2-C013-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691013
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-C013-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 2578 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B1 - 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



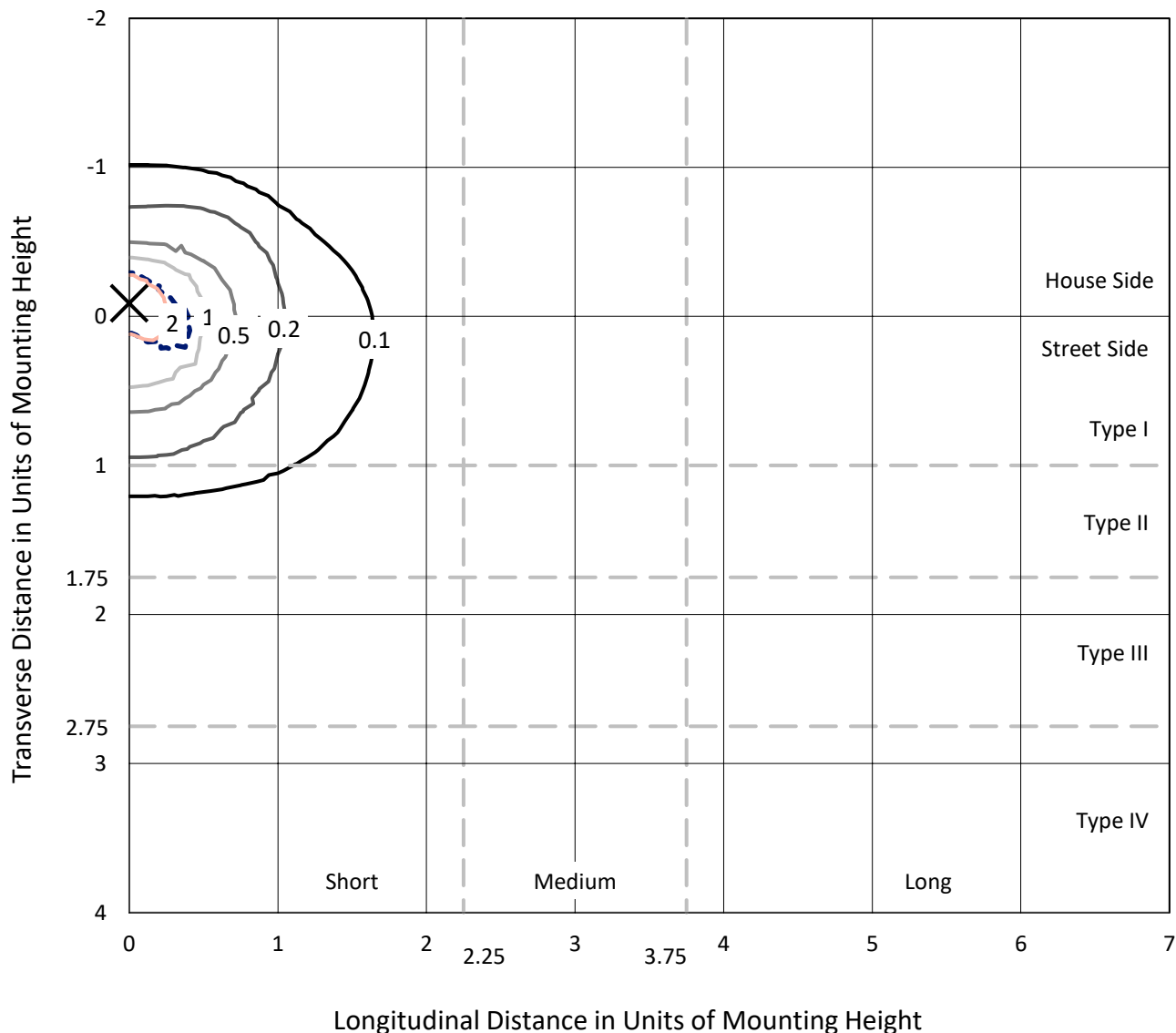
REPORT NUMBER: P691013

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



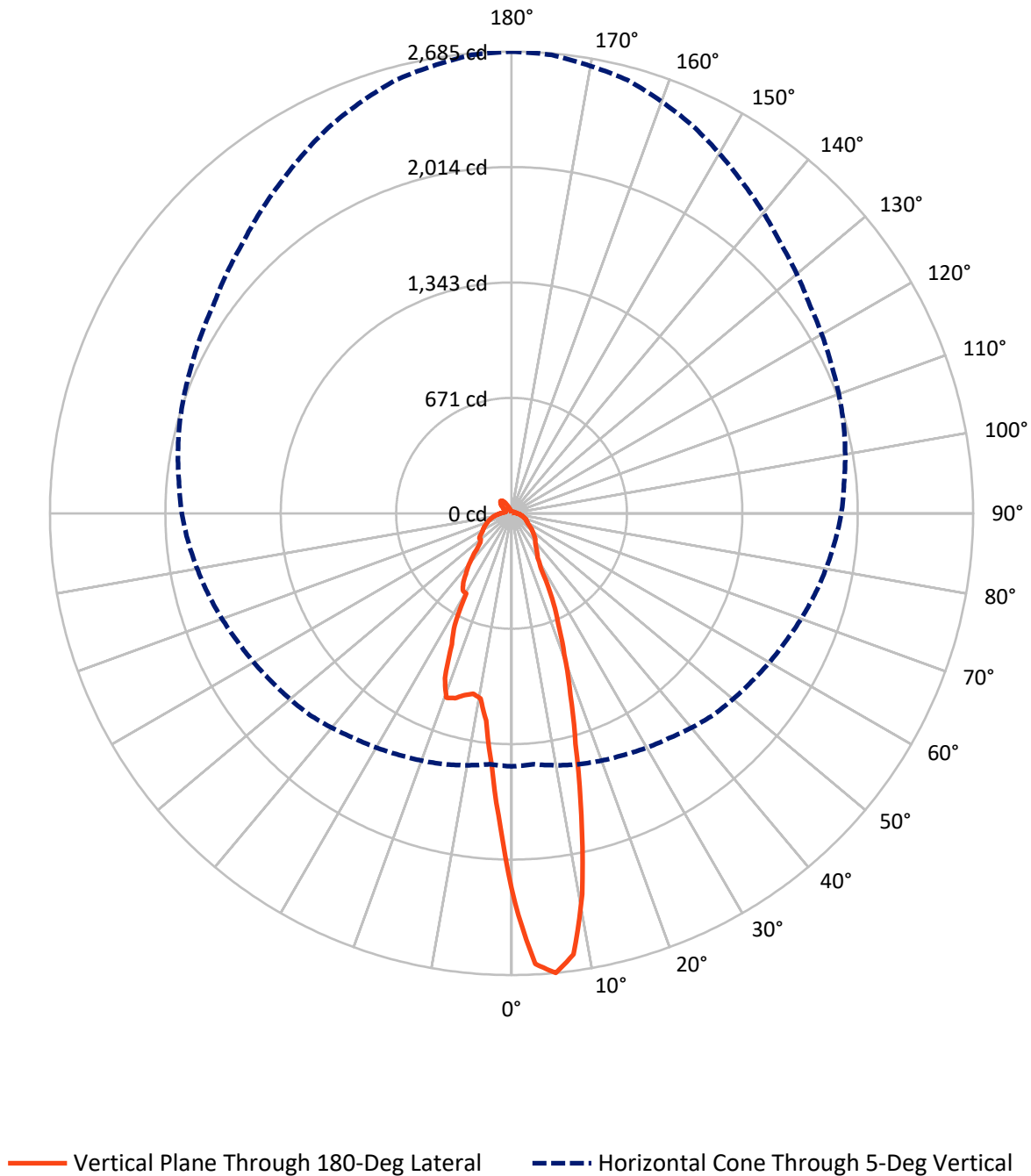
Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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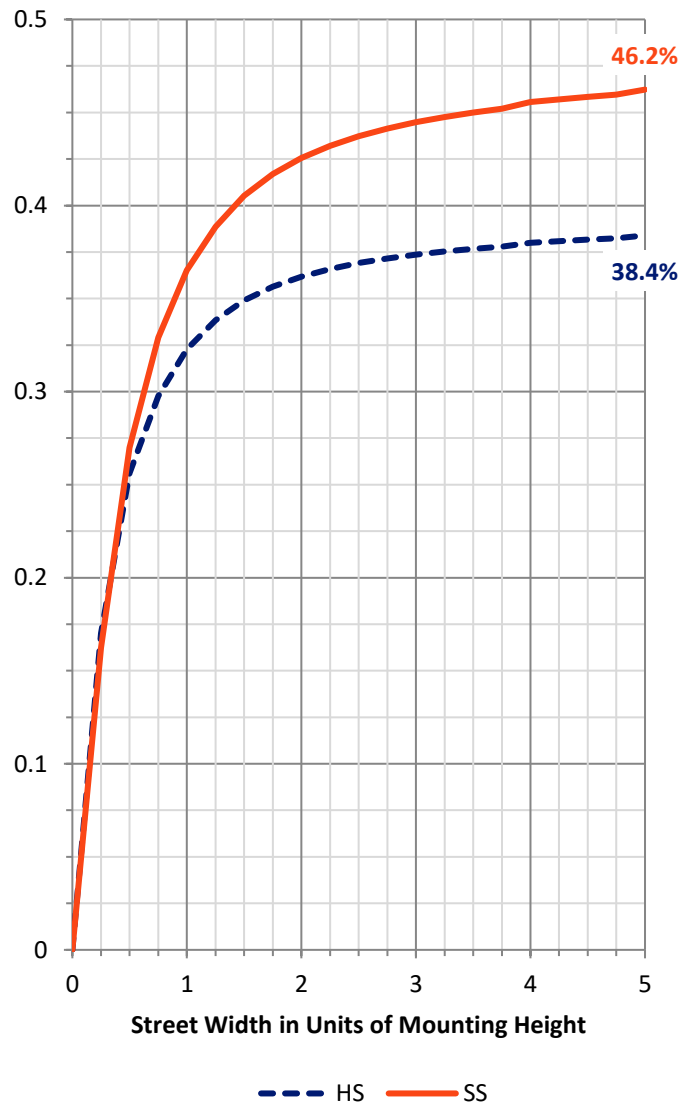
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1015.9	119.3	1135.2
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	1221.0	221.7	1442.8
	% Fixture	47.4	8.6	56.0
Total	Lumens	2237.0	341.0	2578.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	6.8
10°-20°	372.2	14.4
20°-30°	405.1	15.7
30°-40°	296.5	11.5
40°-50°	249.3	9.7
50°-60°	253.2	9.8
60°-70°	215.2	8.3
70°-80°	160.6	6.2
80°-90°	109.3	4.2
90°-100°	65.6	2.5
100°-110°	37.6	1.5
110°-120°	34.6	1.3
120°-130°	50.3	2.0
130°-140°	69.2	2.7
140°-150°	57.3	2.2
150°-160°	23.3	0.9
160°-170°	2.9	0.1
170°-180°	0.0	0.0
0°-90°	2237.0	86.8
0°-180°	2578.0	100.0

Coefficient of Utilization



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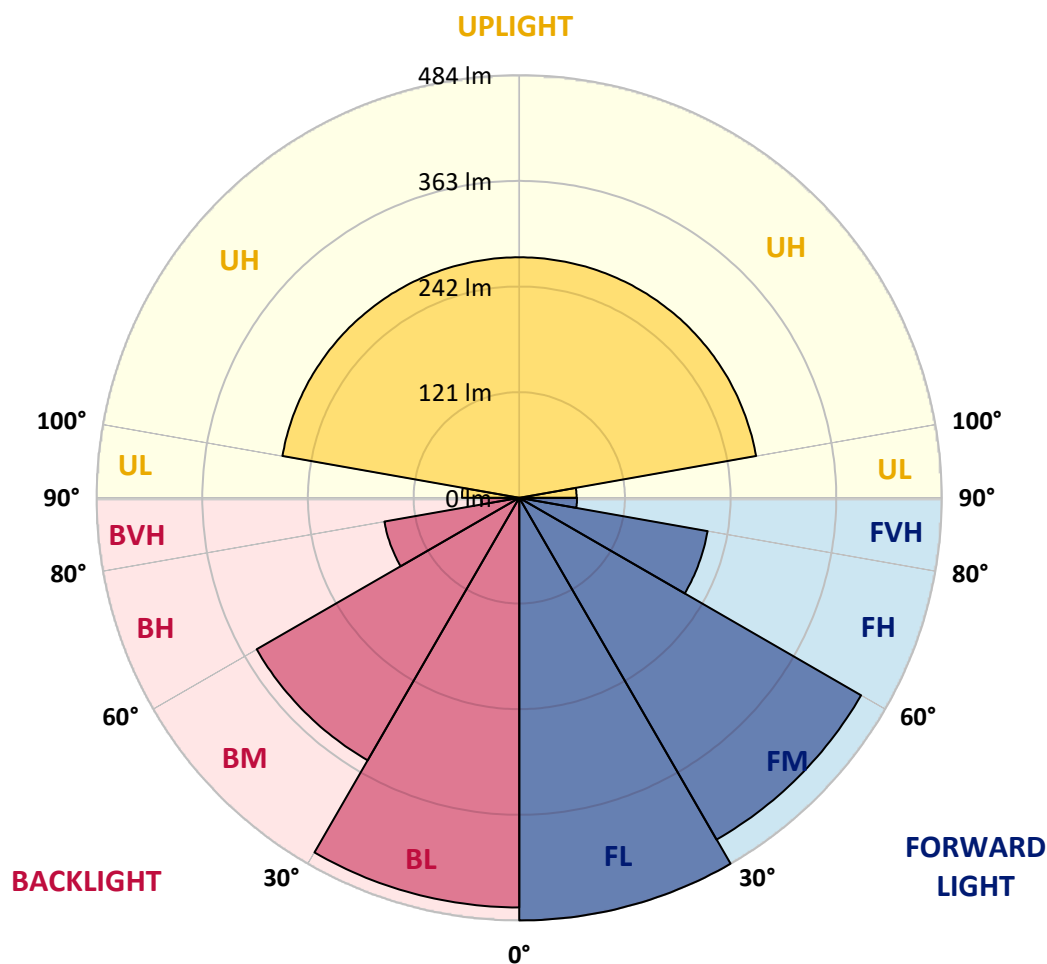
CATALOG NUMBER: CRTK2-C013-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.9	18.8			
FM	(30°-60°)	452.0	17.5			
FH	(60°-80°)	219.0	8.5			G0/660
FVH	(80°-90°)	66.2	2.6			G1/100
BL	(0°-30°)	468.9	18.2	B1/500		
BM	(30°-60°)	347.1	13.5	B1/1000		
BH	(60°-80°)	156.8	6.1	B1/500		G1/500
BVH	(80°-90°)	43.1	1.7			G1/100
UL	(90°-100°)	65.6	2.5		U3/500	
UH	(100°-180°)	275.4	10.7		U3/500	

BUG Rating: B1-U3-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2
2.5°	1827.7	1824.3	1849.5	1855.2	1857.5	1883.9	1919.5	1943.6	1987.3	2029.8	2047.0
5°	1471.8	1464.9	1510.8	1549.9	1596.9	1658.9	1704.9	1760.0	1825.4	1888.5	1918.4
7.5°	1213.5	1222.7	1288.1	1368.5	1444.2	1517.7	1574.0	1621.0	1658.9	1699.1	1707.1
10°	1091.8	1099.8	1164.1	1241.0	1311.1	1385.7	1433.9	1474.1	1498.2	1528.1	1538.4
12.5°	1072.3	1078.0	1121.6	1175.6	1228.4	1296.1	1357.0	1401.8	1429.3	1453.4	1455.7
15°	1091.8	1094.1	1120.5	1156.1	1202.0	1258.3	1328.3	1378.8	1409.8	1420.1	1417.8
17.5°	1123.9	1123.9	1136.6	1166.4	1210.0	1264.0	1330.6	1382.3	1414.4	1419.0	1409.8
20°	1137.7	1140.0	1148.0	1181.3	1220.4	1269.7	1336.3	1380.0	1405.2	1392.6	1376.5
22.5°	1034.4	1029.8	1051.6	1121.6	1208.9	1297.3	1360.4	1409.8	1423.6	1381.1	1346.7
25°	836.9	839.2	853.0	887.4	955.2	1036.7	1176.8	1327.1	1431.6	1415.5	1363.9
27.5°	730.2	723.3	726.7	732.5	723.3	706.1	722.1	718.7	716.4	757.7	762.3
30°	536.1	537.3	543.0	553.4	575.2	607.3	641.8	661.3	678.5	710.6	706.1
32.5°	532.7	533.8	537.3	546.5	558.0	579.8	601.6	609.6	628.0	654.4	646.4
35°	498.3	494.8	504.0	512.0	515.5	524.7	541.9	553.4	564.8	583.2	578.6
37.5°	442.0	443.1	461.5	474.1	477.6	490.2	506.3	515.5	528.1	544.2	536.1
40°	393.8	394.9	416.7	430.5	438.6	455.8	479.9	491.4	512.0	524.7	515.5
42.5°	338.7	343.3	358.2	374.3	378.9	389.2	405.3	420.2	446.6	463.8	458.1
45°	282.4	284.7	295.0	311.1	318.0	329.5	344.4	358.2	378.9	392.6	391.5
47.5°	249.1	251.4	260.6	274.4	288.2	303.1	319.2	332.9	352.5	363.9	359.3
50°	235.4	237.6	249.1	265.2	282.4	301.9	321.5	336.4	354.7	361.6	355.9
52.5°	237.6	237.6	253.7	274.4	298.5	324.9	349.0	367.4	382.3	386.9	374.3
55°	225.0	228.5	245.7	274.4	311.1	352.5	393.8	432.8	454.6	450.0	425.9
57.5°	205.5	208.9	221.6	252.6	291.6	341.0	399.5	447.7	474.1	477.6	453.5
60°	194.0	196.3	207.8	231.9	266.3	306.5	359.3	398.4	428.2	437.4	420.2
62.5°	183.7	186.0	195.2	213.5	238.8	269.8	299.6	324.9	349.0	358.2	351.3
65°	172.2	173.4	182.5	198.6	219.3	245.7	270.9	289.3	308.8	314.6	306.5
67.5°	160.7	161.9	169.9	184.8	204.4	228.5	248.0	268.6	288.2	292.8	287.0
70°	150.4	151.5	158.4	172.2	189.4	212.4	230.8	244.5	264.1	268.6	261.8
72.5°	140.1	141.2	148.1	160.7	176.8	197.5	213.5	227.3	243.4	244.5	238.8
75°	129.7	130.9	136.6	148.1	161.9	182.5	197.5	208.9	222.7	222.7	215.8
77.5°	118.2	120.5	125.1	135.5	148.1	167.6	181.4	192.9	204.4	203.2	196.3
80°	107.9	109.1	113.7	122.8	134.3	152.7	166.5	175.7	186.0	184.8	179.1
82.5°	96.4	97.6	101.0	110.2	120.5	137.8	151.5	160.7	169.9	167.6	161.9
85°	85.0	86.1	90.7	97.6	107.9	124.0	136.6	145.8	152.7	150.4	145.8
87.5°	75.8	75.8	79.2	86.1	95.3	110.2	121.7	130.9	136.6	135.5	130.9
90°	65.4	66.6	68.9	74.6	82.7	95.3	106.8	114.8	120.5	118.2	113.7
92.5°	57.4	57.4	59.7	65.4	72.3	83.8	94.1	101.0	105.6	104.5	101.0
95°	49.4	50.5	51.7	56.3	62.0	71.2	80.4	87.3	91.8	90.7	88.4
97.5°	43.6	44.8	45.9	48.2	54.0	59.7	67.7	73.5	78.1	76.9	74.6
100°	40.2	40.2	40.2	42.5	45.9	50.5	56.3	60.8	63.1	64.3	62.0
102.5°	36.7	36.7	37.9	37.9	40.2	42.5	45.9	49.4	50.5	50.5	50.5
105°	35.6	35.6	36.7	36.7	37.9	39.0	41.3	42.5	43.6	43.6	42.5
107.5°	35.6	35.6	35.6	35.6	36.7	37.9	39.0	40.2	40.2	40.2	39.0
110°	36.7	36.7	36.7	36.7	36.7	37.9	37.9	39.0	39.0	37.9	37.9



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CATALOG NUMBER: CRTK2-C013-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	37.9	37.9	37.9	37.9	37.9	39.0	39.0	39.0	39.0	37.9	37.9
115°	40.2	40.2	40.2	41.3	41.3	41.3	41.3	41.3	41.3	40.2	39.0
117.5°	44.8	44.8	44.8	44.8	45.9	45.9	45.9	45.9	45.9	43.6	43.6
120°	50.5	49.4	50.5	51.7	52.8	52.8	52.8	52.8	52.8	50.5	49.4
122.5°	56.3	56.3	57.4	59.7	62.0	63.1	62.0	62.0	62.0	58.6	57.4
125°	63.1	63.1	66.6	71.2	74.6	75.8	74.6	74.6	74.6	71.2	68.9
127.5°	71.2	71.2	75.8	82.7	88.4	91.8	90.7	90.7	90.7	85.0	81.5
130°	79.2	79.2	86.1	95.3	104.5	106.8	107.9	109.1	109.1	102.2	97.6
132.5°	85.0	86.1	94.1	106.8	118.2	121.7	125.1	126.3	126.3	118.2	111.4
135°	90.7	91.8	102.2	117.1	129.7	137.8	141.2	142.4	143.5	134.3	126.3
137.5°	94.1	95.3	106.8	124.0	136.6	147.0	155.0	157.3	157.3	147.0	136.6
140°	94.1	95.3	107.9	124.0	137.8	150.4	159.6	164.2	164.2	153.8	144.7
142.5°	91.8	94.1	105.6	121.7	135.5	148.1	158.4	163.0	163.0	153.8	144.7
145°	87.3	88.4	99.9	113.7	127.4	142.4	153.8	158.4	158.4	149.2	140.1
147.5°	79.2	80.4	89.5	102.2	116.0	130.9	142.4	148.1	147.0	138.9	130.9
150°	68.9	68.9	76.9	87.3	101.0	114.8	126.3	132.0	132.0	124.0	117.1
152.5°	56.3	56.3	62.0	70.0	81.5	95.3	104.5	110.2	110.2	104.5	98.7
155°	43.6	43.6	48.2	54.0	63.1	73.5	80.4	86.1	86.1	81.5	76.9
157.5°	31.0	31.0	35.6	40.2	47.1	55.1	60.8	64.3	65.4	60.8	58.6
160°	20.7	20.7	23.0	26.4	32.1	37.9	41.3	44.8	45.9	42.5	41.3
162.5°	11.5	11.5	12.6	16.1	19.5	23.0	26.4	28.7	28.7	27.6	26.4
165°	3.4	3.4	4.6	5.7	8.0	10.3	11.5	12.6	13.8	13.8	12.6
167.5°	0.0	0.0	1.1	1.1	1.1	1.1	2.3	2.3	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°	179°	180°
0°	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2	2266.2
2.5°	2082.6	2146.9	2216.9	2284.6	2367.3	2453.4	2532.6	2586.6	2615.3	2624.4	2624.4
5°	1941.4	1999.9	2051.6	2115.9	2215.7	2345.5	2489.0	2608.4	2676.1	2684.1	2685.3
7.5°	1720.9	1769.1	1823.1	1880.5	1968.9	2084.9	2274.3	2467.2	2577.4	2598.0	2590.0
10°	1540.7	1570.5	1602.7	1624.5	1686.5	1772.6	1901.2	2090.6	2226.1	2242.1	2253.6
12.5°	1456.9	1461.5	1452.3	1456.9	1477.5	1517.7	1580.9	1689.9	1778.3	1793.3	1801.3
15°	1414.4	1391.4	1354.7	1320.3	1301.9	1305.3	1319.1	1363.9	1378.8	1404.1	1392.6
17.5°	1394.9	1343.2	1285.8	1219.2	1177.9	1135.4	1112.5	1104.4	1098.7	1099.8	1110.2
20°	1345.5	1287.0	1195.1	1107.9	1041.3	982.7	933.4	897.8	878.3	869.1	876.0
22.5°	1293.9	1203.2	1095.2	1001.1	905.8	831.2	774.9	723.3	694.6	702.6	693.4
25°	1295.0	1159.5	1030.9	907.0	817.4	718.7	629.1	575.2	528.1	537.3	549.9
27.5°	816.3	780.7	688.8	616.5	527.0	477.6	432.8	394.9	368.5	369.7	366.2
30°	692.3	655.5	609.6	552.2	484.5	427.1	375.4	331.8	306.5	299.6	298.5
32.5°	639.5	608.5	566.0	509.7	447.7	390.3	338.7	298.5	273.2	272.1	272.1
35°	569.4	540.7	505.1	456.9	404.1	351.3	303.1	268.6	248.0	248.0	246.8
37.5°	525.8	500.5	466.1	421.3	374.3	321.5	279.0	248.0	226.2	225.0	226.2
40°	502.8	476.4	443.1	400.7	353.6	303.1	262.9	230.8	214.7	213.5	212.4
42.5°	456.9	436.3	407.6	368.5	327.2	282.4	244.5	215.8	202.1	200.9	202.1
45°	388.0	373.1	353.6	324.9	290.5	252.6	219.3	197.5	183.7	183.7	183.7
47.5°	355.9	342.1	320.3	291.6	261.8	226.2	198.6	180.2	167.6	167.6	167.6
50°	347.9	330.6	301.9	269.8	237.6	206.6	181.4	163.0	153.8	152.7	153.8
52.5°	359.3	332.9	293.9	256.0	220.4	190.6	166.5	149.2	140.1	140.1	140.1
55°	400.7	352.5	300.8	252.6	210.1	176.8	152.7	135.5	126.3	125.1	126.3
57.5°	428.2	367.4	303.1	249.1	203.2	167.6	141.2	122.8	113.7	112.5	113.7
60°	404.1	354.7	292.8	239.9	197.5	160.7	133.2	114.8	105.6	104.5	104.5
62.5°	335.2	306.5	261.8	217.0	182.5	150.4	125.1	107.9	98.7	97.6	98.7
65°	297.3	272.1	233.1	197.5	167.6	140.1	118.2	103.3	94.1	94.1	94.1
67.5°	276.7	253.7	217.0	182.5	155.0	129.7	109.1	95.3	87.3	87.3	87.3
70°	252.6	229.6	196.3	165.3	140.1	118.2	99.9	86.1	79.2	78.1	79.2
72.5°	231.9	208.9	177.9	149.2	126.3	106.8	90.7	78.1	72.3	71.2	72.3
75°	208.9	187.1	157.3	132.0	112.5	95.3	81.5	70.0	65.4	64.3	64.3
77.5°	189.4	168.8	141.2	118.2	101.0	85.0	72.3	64.3	59.7	58.6	58.6
80°	172.2	152.7	126.3	105.6	89.5	75.8	65.4	57.4	52.8	52.8	52.8
82.5°	153.8	136.6	112.5	93.0	79.2	67.7	57.4	50.5	47.1	47.1	47.1
85°	138.9	121.7	98.7	82.7	68.9	58.6	50.5	44.8	41.3	41.3	41.3
87.5°	122.8	107.9	87.3	72.3	60.8	51.7	43.6	37.9	36.7	35.6	35.6
90°	106.8	93.0	74.6	62.0	51.7	43.6	36.7	32.1	31.0	29.8	29.8
92.5°	95.3	82.7	67.7	56.3	47.1	39.0	34.4	29.8	28.7	28.7	27.6
95°	82.7	72.3	59.7	50.5	42.5	36.7	32.1	28.7	27.6	27.6	26.4
97.5°	71.2	62.0	52.8	45.9	39.0	34.4	29.8	27.6	25.3	25.3	25.3
100°	59.7	52.8	45.9	39.0	35.6	31.0	27.6	25.3	24.1	23.0	23.0
102.5°	48.2	43.6	37.9	34.4	29.8	26.4	24.1	21.8	20.7	20.7	20.7
105°	41.3	37.9	34.4	31.0	27.6	24.1	21.8	19.5	18.4	18.4	18.4
107.5°	37.9	35.6	32.1	28.7	26.4	23.0	20.7	17.2	16.1	17.2	17.2
110°	36.7	34.4	31.0	28.7	25.3	23.0	20.7	16.1	14.9	16.1	16.1



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CATALOG NUMBER: CRTK2-C013-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	36.7	34.4	32.1	28.7	26.4	23.0	20.7	16.1	14.9	14.9	14.9
115°	37.9	36.7	33.3	31.0	27.6	24.1	20.7	16.1	14.9	14.9	14.9
117.5°	42.5	40.2	36.7	33.3	29.8	25.3	21.8	16.1	14.9	14.9	14.9
120°	47.1	44.8	41.3	36.7	32.1	27.6	23.0	16.1	13.8	14.9	14.9
122.5°	55.1	51.7	47.1	41.3	35.6	29.8	23.0	17.2	12.6	14.9	14.9
125°	65.4	60.8	54.0	45.9	39.0	32.1	24.1	17.2	13.8	14.9	14.9
127.5°	76.9	71.2	62.0	51.7	42.5	33.3	25.3	17.2	13.8	13.8	14.9
130°	91.8	82.7	70.0	57.4	45.9	35.6	25.3	17.2	13.8	13.8	13.8
132.5°	104.5	93.0	76.9	62.0	48.2	36.7	25.3	17.2	12.6	12.6	12.6
135°	117.1	102.2	82.7	65.4	50.5	36.7	25.3	16.1	12.6	12.6	12.6
137.5°	127.4	107.9	87.3	66.6	50.5	35.6	24.1	14.9	11.5	11.5	11.5
140°	133.2	111.4	88.4	66.6	48.2	34.4	21.8	13.8	10.3	10.3	10.3
142.5°	133.2	110.2	87.3	64.3	45.9	32.1	19.5	11.5	9.2	9.2	9.2
145°	128.6	105.6	82.7	60.8	42.5	28.7	17.2	10.3	6.9	6.9	8.0
147.5°	120.5	97.6	75.8	55.1	37.9	24.1	14.9	8.0	5.7	5.7	5.7
150°	106.8	86.1	65.4	48.2	32.1	20.7	12.6	6.9	4.6	4.6	4.6
152.5°	89.5	71.2	55.1	40.2	26.4	16.1	9.2	5.7	3.4	3.4	3.4
155°	71.2	56.3	43.6	31.0	19.5	12.6	6.9	4.6	3.4	3.4	3.4
157.5°	52.8	42.5	32.1	23.0	14.9	9.2	5.7	3.4	2.3	2.3	2.3
160°	36.7	29.8	21.8	14.9	9.2	5.7	3.4	2.3	1.1	1.1	1.1
162.5°	24.1	18.4	13.8	9.2	5.7	3.4	2.3	1.1	1.1	1.1	1.1
165°	11.5	9.2	6.9	4.6	2.3	2.3	1.1	1.1	0.0	0.0	0.0
167.5°	3.4	2.3	1.1	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)