

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: P691022

Luminaire Tested: **CRTK2-C013-5TLD-U-T2-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-5TLD-U-T2-7040-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2947 lumens
Efficiency: N/A
Efficacy: 127.0 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



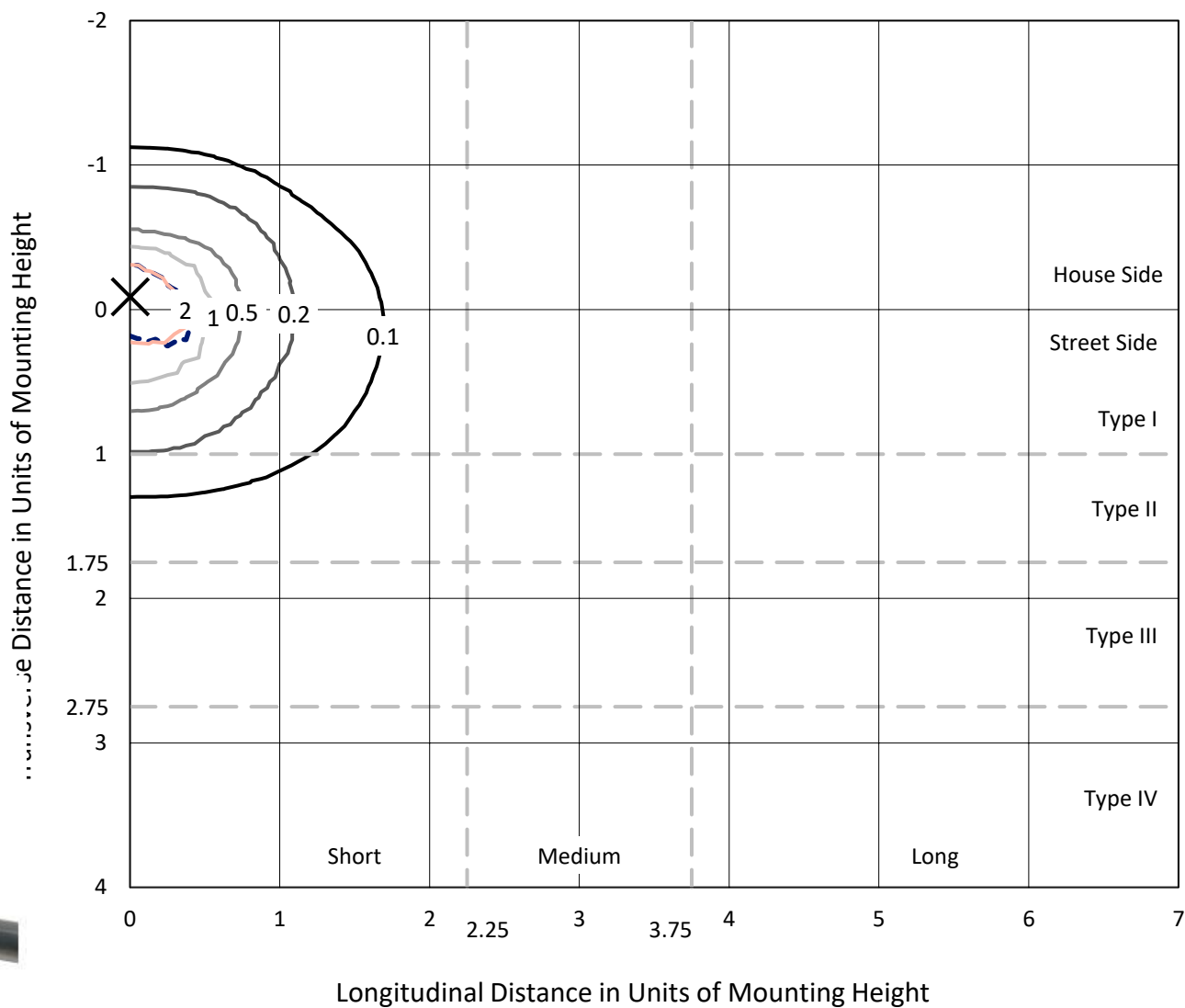
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

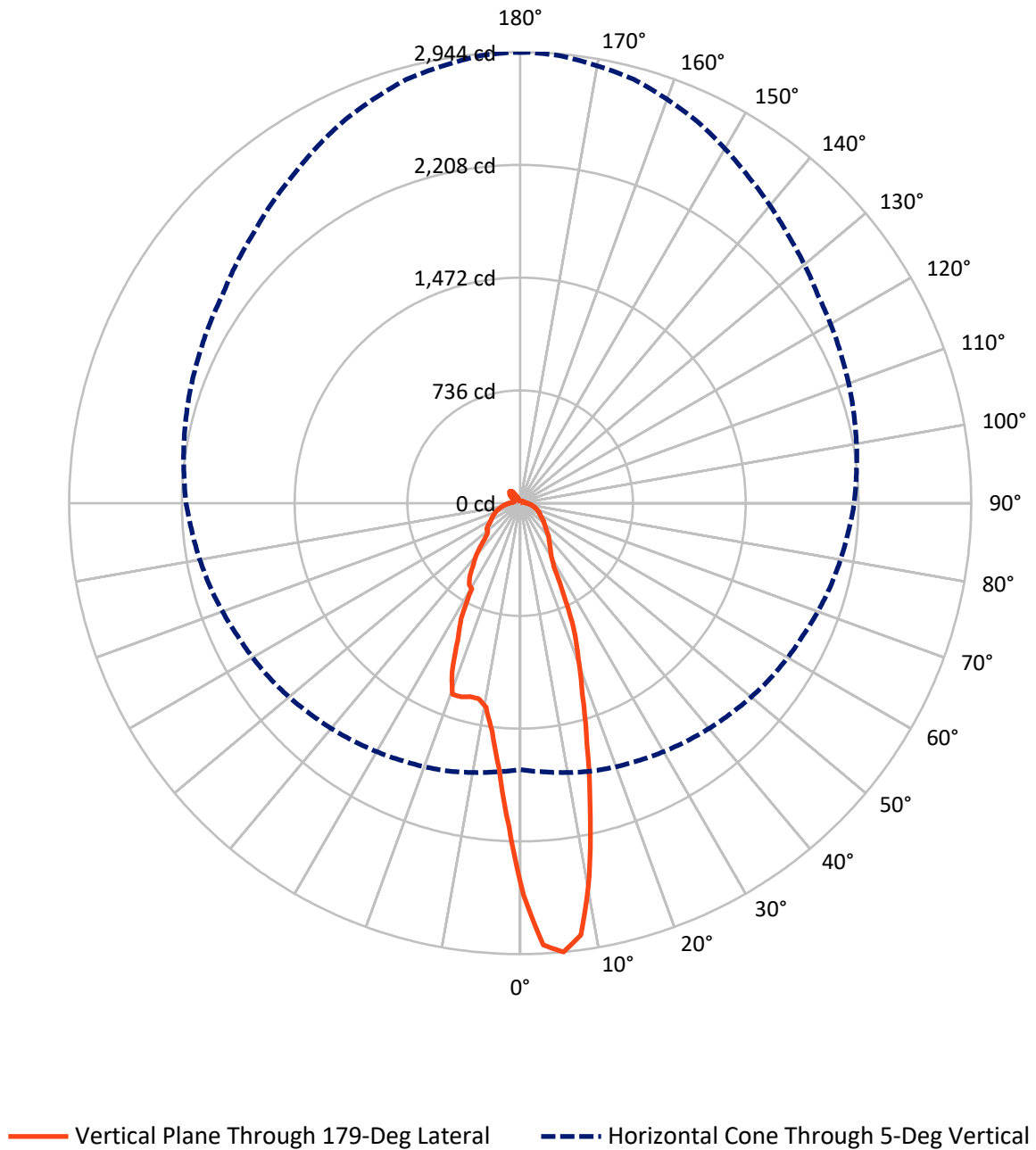


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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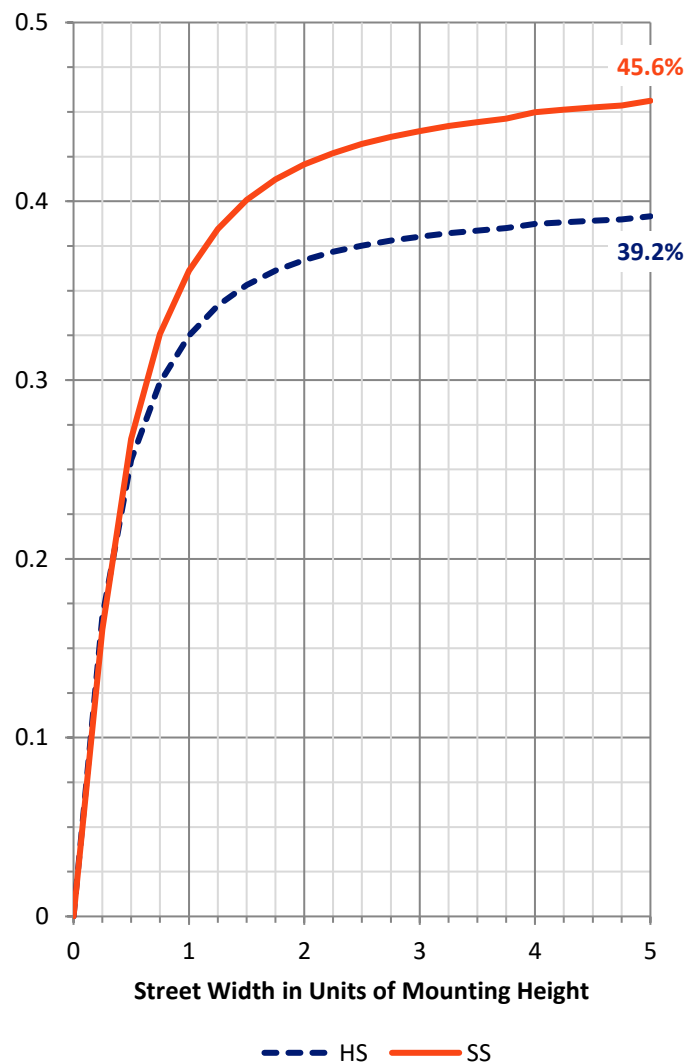
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1185.9	144.2	1330.1
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	1376.5	240.4	1616.9
	% Fixture	46.7	8.2	54.9
Total	Lumens	2562.4	384.6	2947.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	6.8
10°-20°	426.6	14.5
20°-30°	463.4	15.7
30°-40°	343.0	11.6
40°-50°	287.2	9.7
50°-60°	288.8	9.8
60°-70°	245.9	8.3
70°-80°	183.6	6.2
80°-90°	124.0	4.2
90°-100°	74.1	2.5
100°-110°	42.8	1.5
110°-120°	39.4	1.3
120°-130°	57.0	1.9
130°-140°	78.0	2.6
140°-150°	64.3	2.2
150°-160°	25.9	0.9
160°-170°	3.2	0.1
170°-180°	0.0	0.0
0°-90°	2562.4	86.9
0°-180°	2947.0	100.0

Coefficient of Utilization



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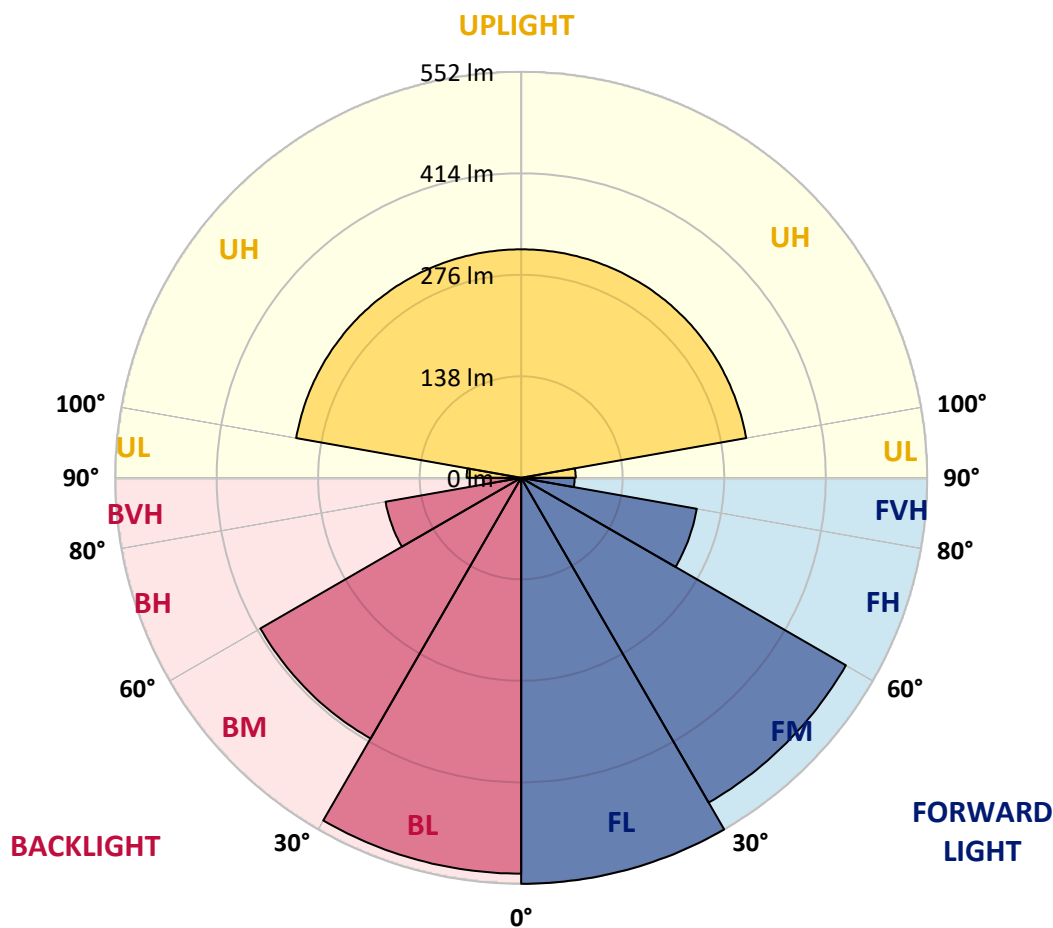
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	551.8	18.7			
FM	(30°-60°)	509.6	17.3			
FH	(60°-80°)	242.4	8.2			G0/660
FVH	(80°-90°)	72.6	2.5			G1/100
BL	(0°-30°)	538.0	18.3	B2/1000		
BM	(30°-60°)	409.4	13.9	B1/1000		
BH	(60°-80°)	187.1	6.3	B1/500		G1/500
BVH	(80°-90°)	51.4	1.7			G1/100
UL	(90°-100°)	74.1	2.5		U3/500	
UH	(100°-180°)	310.5	10.5		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°	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3
2.5°	2108.2	2120.0	2146.0	2159.0	2172.0	2188.6	2213.4	2232.3	2276.0	2316.2	2332.7
5°	1739.5	1760.8	1810.4	1850.6	1895.5	1942.8	1993.6	2038.5	2096.4	2149.6	2180.3
7.5°	1494.9	1512.6	1571.7	1649.7	1728.9	1795.1	1847.0	1881.3	1907.3	1928.6	1951.0
10°	1346.0	1361.4	1420.4	1490.2	1557.5	1619.0	1662.7	1695.8	1705.2	1726.5	1737.1
12.5°	1303.5	1310.5	1351.9	1400.4	1441.7	1502.0	1554.0	1589.4	1604.8	1623.7	1629.6
15°	1304.6	1304.6	1328.3	1359.0	1396.8	1442.9	1500.8	1543.3	1565.8	1576.4	1575.2
17.5°	1322.4	1321.2	1331.8	1356.6	1388.5	1434.6	1493.7	1537.4	1563.4	1567.0	1563.4
20°	1322.4	1323.5	1327.1	1355.4	1386.2	1427.5	1487.8	1524.4	1544.5	1533.9	1522.1
22.5°	1187.6	1186.5	1217.2	1277.5	1360.2	1446.4	1500.8	1545.7	1550.4	1511.4	1479.5
25°	980.8	972.6	990.3	1017.5	1073.0	1173.5	1286.9	1457.1	1558.7	1536.3	1487.8
27.5°	850.8	840.2	855.6	843.8	837.8	830.8	823.7	803.6	816.6	828.4	880.4
30°	641.7	644.0	647.6	654.7	668.9	697.2	726.8	744.5	759.9	790.6	787.0
32.5°	627.5	626.3	627.5	634.6	641.7	659.4	677.1	686.6	698.4	727.9	720.9
35°	580.2	577.9	586.1	589.7	588.5	593.2	611.0	621.6	632.2	651.1	644.0
37.5°	510.5	512.9	530.6	540.1	543.6	554.2	568.4	577.9	590.9	605.0	601.5
40°	458.5	457.3	476.2	489.2	497.5	514.1	535.3	549.5	570.8	582.6	574.3
42.5°	394.7	399.4	413.6	426.6	429.0	437.2	456.1	472.7	498.7	516.4	511.7
45°	332.1	335.6	347.4	358.1	366.3	377.0	391.2	405.3	426.6	440.8	439.6
47.5°	293.1	296.6	306.1	319.1	330.9	346.2	360.4	374.6	394.7	405.3	401.8
50°	277.7	280.1	290.7	304.9	322.6	341.5	360.4	375.8	394.7	401.8	395.9
52.5°	276.5	276.5	289.5	310.8	335.6	361.6	386.4	407.7	425.4	425.4	413.6
55°	260.0	262.3	278.9	307.3	345.1	387.6	431.3	471.5	495.1	490.4	468.0
57.5°	236.3	237.5	255.3	282.4	322.6	374.6	433.7	484.5	512.9	518.8	495.1
60°	222.2	223.3	235.2	261.2	295.4	336.8	391.2	431.3	459.7	477.4	458.5
62.5°	210.3	210.3	222.2	239.9	268.3	299.0	329.7	356.9	379.3	392.3	381.7
65°	197.3	197.3	205.6	222.2	244.6	274.2	297.8	317.9	338.0	347.4	338.0
67.5°	184.4	184.4	192.6	208.0	228.1	252.9	276.5	295.4	315.5	322.6	315.5
70°	171.4	171.4	179.6	192.6	211.5	235.2	252.9	273.0	291.9	296.6	290.7
72.5°	158.4	158.4	166.6	178.4	195.0	217.4	234.0	249.3	267.1	270.6	264.7
75°	146.5	146.5	152.4	164.3	179.6	199.7	216.3	230.4	244.6	244.6	239.9
77.5°	133.5	134.7	139.4	150.1	164.3	183.2	198.5	211.5	223.3	223.3	217.4
80°	120.5	121.7	126.4	135.9	148.9	166.6	180.8	192.6	203.3	203.3	197.3
82.5°	107.5	108.7	113.4	121.7	133.5	150.1	164.3	176.1	185.5	184.4	178.4
85°	95.7	96.9	100.4	107.5	118.2	134.7	147.7	158.4	166.6	165.4	160.7
87.5°	83.9	85.1	88.6	94.5	104.0	119.4	132.4	141.8	148.9	147.7	143.0
90°	73.3	73.3	76.8	82.7	91.0	104.0	115.8	124.1	131.2	128.8	124.1
92.5°	63.8	65.0	67.4	72.1	79.2	91.0	101.6	108.7	115.8	114.6	109.9
95°	56.7	56.7	59.1	62.6	68.5	78.0	88.6	94.5	99.3	99.3	95.7
97.5°	49.6	50.8	52.0	54.4	59.1	66.2	74.4	80.4	83.9	83.9	81.5
100°	44.9	46.1	46.1	48.5	50.8	55.5	61.5	66.2	69.7	69.7	68.5
102.5°	42.5	42.5	42.5	43.7	44.9	47.3	50.8	53.2	55.5	56.7	55.5
105°	40.2	40.2	40.2	41.4	41.4	43.7	44.9	47.3	48.5	48.5	47.3
107.5°	39.0	39.0	40.2	40.2	40.2	41.4	43.7	43.7	44.9	43.7	43.7
110°	40.2	40.2	40.2	40.2	40.2	41.4	42.5	42.5	42.5	42.5	41.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	41.4	41.4	41.4	41.4	42.5	42.5	42.5	43.7	43.7	42.5	42.5
115°	44.9	44.9	44.9	44.9	44.9	46.1	46.1	46.1	46.1	44.9	43.7
117.5°	48.5	48.5	48.5	49.6	49.6	50.8	49.6	50.8	49.6	48.5	48.5
120°	54.4	54.4	55.5	56.7	57.9	57.9	56.7	57.9	57.9	55.5	54.4
122.5°	61.5	61.5	62.6	66.2	67.4	68.5	67.4	67.4	67.4	65.0	63.8
125°	68.5	69.7	72.1	76.8	80.4	82.7	80.4	81.5	81.5	78.0	76.8
127.5°	76.8	78.0	82.7	89.8	95.7	98.1	96.9	98.1	99.3	93.4	91.0
130°	85.1	85.1	92.2	102.8	111.1	114.6	115.8	117.0	118.2	112.3	107.5
132.5°	92.2	92.2	101.6	114.6	125.3	131.2	133.5	135.9	138.3	130.0	124.1
135°	96.9	98.1	109.9	125.3	138.3	146.5	150.1	152.4	156.0	146.5	139.4
137.5°	100.4	102.8	114.6	131.2	145.4	157.2	164.3	167.8	170.2	160.7	151.3
140°	101.6	102.8	115.8	132.4	146.5	159.5	170.2	176.1	177.3	167.8	158.4
142.5°	98.1	100.4	112.3	128.8	143.0	157.2	169.0	174.9	176.1	167.8	158.4
145°	93.4	94.5	105.2	120.5	134.7	150.1	163.1	169.0	169.0	161.9	152.4
147.5°	85.1	86.3	95.7	108.7	122.9	138.3	151.3	157.2	158.4	151.3	143.0
150°	73.3	74.4	81.5	92.2	106.4	121.7	133.5	140.6	140.6	133.5	127.6
152.5°	59.1	60.3	66.2	74.4	86.3	100.4	111.1	118.2	118.2	113.4	106.4
155°	46.1	46.1	50.8	57.9	66.2	76.8	85.1	91.0	92.2	87.4	82.7
157.5°	33.1	33.1	36.6	42.5	49.6	57.9	63.8	68.5	68.5	65.0	62.6
160°	22.5	22.5	24.8	28.4	33.1	39.0	43.7	48.5	48.5	46.1	43.7
162.5°	11.8	11.8	14.2	16.5	20.1	24.8	27.2	30.7	30.7	29.5	28.4
165°	3.5	3.5	4.7	5.9	8.3	10.6	11.8	14.2	15.4	14.2	13.0
167.5°	0.0	0.0	1.2	1.2	1.2	1.2	2.4	3.5	3.5	3.5	3.5
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°	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3
2.5°	2350.5	2424.9	2492.3	2562.0	2648.3	2723.9	2805.4	2863.3	2888.2	2888.2	2897.6
5°	2202.7	2254.7	2309.1	2370.6	2473.4	2599.8	2745.2	2864.5	2933.1	2943.7	2942.5
7.5°	1958.1	1993.6	2049.1	2117.7	2212.2	2325.6	2512.4	2699.1	2823.2	2845.6	2837.3
10°	1743.1	1776.1	1809.2	1835.2	1902.6	1992.4	2129.5	2311.5	2454.5	2476.9	2459.2
12.5°	1633.2	1643.8	1642.6	1658.0	1685.2	1730.1	1799.8	1905.0	2003.0	2024.3	2008.9
15°	1575.2	1559.9	1536.3	1509.1	1506.7	1513.8	1531.5	1574.1	1615.4	1633.2	1621.3
17.5°	1551.6	1515.0	1466.5	1413.4	1377.9	1344.8	1322.4	1308.2	1314.1	1315.3	1305.8
20°	1496.1	1452.3	1374.4	1298.7	1242.0	1184.1	1134.5	1097.8	1091.9	1086.0	1078.9
22.5°	1433.4	1359.0	1265.6	1173.5	1089.6	1012.7	957.2	913.5	896.9	902.8	899.3
25°	1420.4	1296.4	1182.9	1034.0	927.7	841.4	737.4	666.5	634.6	652.3	640.5
27.5°	852.0	855.6	791.8	701.9	625.1	574.3	528.2	490.4	469.1	469.1	471.5
30°	771.7	737.4	694.9	639.3	572.0	521.1	470.3	429.0	406.5	400.6	403.0
32.5°	705.5	681.9	641.7	588.5	527.1	475.1	421.9	384.1	362.8	361.6	360.4
35°	634.6	609.8	576.7	530.6	477.4	429.0	382.9	349.8	330.9	332.1	332.1
37.5°	586.1	563.7	534.1	490.4	442.0	393.5	352.2	321.4	306.1	306.1	304.9
40°	561.3	535.3	503.4	463.2	418.3	367.5	328.5	299.0	286.0	286.0	284.8
42.5°	507.0	484.5	463.2	421.9	377.0	335.6	299.0	273.0	260.0	260.0	260.0
45°	430.2	417.2	400.6	372.2	335.6	301.3	270.6	245.8	235.2	234.0	234.0
47.5°	397.1	382.9	362.8	336.8	307.3	275.3	245.8	228.1	217.4	217.4	217.4
50°	387.6	371.1	343.9	313.2	282.4	254.1	228.1	211.5	202.1	202.1	203.3
52.5°	400.6	373.4	336.8	299.0	267.1	235.2	212.7	196.2	189.1	189.1	187.9
55°	445.5	394.7	341.5	295.4	255.3	221.0	197.3	179.6	171.4	171.4	171.4
57.5°	470.3	410.1	345.1	290.7	244.6	210.3	185.5	166.6	158.4	158.4	158.4
60°	442.0	392.3	330.9	281.3	236.3	200.9	174.9	157.2	148.9	147.7	146.5
62.5°	369.9	339.2	295.4	254.1	218.6	187.9	166.6	148.9	140.6	140.6	139.4
65°	329.7	303.7	265.9	230.4	200.9	174.9	154.8	140.6	132.4	131.2	131.2
67.5°	307.3	283.6	245.8	212.7	185.5	161.9	143.0	130.0	124.1	121.7	121.7
70°	282.4	256.4	223.3	193.8	169.0	147.7	132.4	119.4	113.4	112.3	111.1
72.5°	257.6	234.0	203.3	174.9	152.4	134.7	120.5	108.7	102.8	101.6	101.6
75°	231.6	209.2	179.6	156.0	137.1	120.5	107.5	98.1	93.4	92.2	91.0
77.5°	210.3	190.3	161.9	139.4	121.7	108.7	96.9	88.6	83.9	83.9	82.7
80°	190.3	171.4	144.2	124.1	108.7	95.7	86.3	79.2	75.6	74.4	74.4
82.5°	171.4	152.4	127.6	109.9	95.7	85.1	75.6	69.7	66.2	66.2	66.2
85°	153.6	135.9	113.4	96.9	83.9	74.4	66.2	60.3	57.9	56.7	57.9
87.5°	135.9	119.4	100.4	85.1	73.3	63.8	56.7	52.0	49.6	49.6	49.6
90°	119.4	104.0	86.3	72.1	62.6	54.4	48.5	43.7	42.5	41.4	41.4
92.5°	105.2	92.2	76.8	65.0	55.5	49.6	43.7	40.2	37.8	37.8	37.8
95°	92.2	80.4	68.5	57.9	50.8	44.9	40.2	36.6	35.5	35.5	35.5
97.5°	79.2	69.7	60.3	52.0	46.1	41.4	36.6	34.3	33.1	31.9	33.1
100°	66.2	59.1	52.0	46.1	41.4	36.6	33.1	30.7	29.5	29.5	29.5
102.5°	53.2	49.6	43.7	39.0	35.5	33.1	29.5	27.2	26.0	26.0	26.0
105°	46.1	42.5	39.0	35.5	33.1	29.5	27.2	24.8	23.6	23.6	23.6
107.5°	42.5	40.2	36.6	34.3	30.7	28.4	26.0	22.5	21.3	21.3	21.3
110°	41.4	39.0	36.6	33.1	30.7	28.4	26.0	21.3	20.1	20.1	20.1

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CATALOG NUMBER: CRTK2-C013-5TLD-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	41.4	39.0	36.6	34.3	31.9	28.4	26.0	21.3	18.9	18.9	18.9
115°	43.7	41.4	39.0	36.6	33.1	29.5	27.2	21.3	18.9	18.9	18.9
117.5°	47.3	44.9	42.5	39.0	35.5	31.9	27.2	21.3	20.1	20.1	20.1
120°	53.2	50.8	47.3	43.7	39.0	34.3	29.5	22.5	18.9	20.1	20.1
122.5°	61.5	59.1	54.4	48.5	43.7	37.8	30.7	23.6	17.7	20.1	20.1
125°	73.3	69.7	62.6	55.5	48.5	41.4	33.1	24.8	18.9	21.3	21.3
127.5°	86.3	81.5	72.1	62.6	54.4	44.9	35.5	26.0	20.1	21.3	21.3
130°	101.6	93.4	81.5	69.7	59.1	48.5	37.8	27.2	21.3	21.3	21.3
132.5°	117.0	105.2	89.8	76.8	63.8	50.8	39.0	27.2	21.3	21.3	21.3
135°	130.0	115.8	98.1	81.5	66.2	52.0	40.2	27.2	21.3	21.3	21.3
137.5°	141.8	122.9	102.8	83.9	67.4	52.0	39.0	27.2	20.1	20.1	20.1
140°	147.7	126.4	105.2	83.9	66.2	50.8	36.6	24.8	18.9	18.9	18.9
142.5°	147.7	125.3	102.8	81.5	63.8	48.5	34.3	23.6	16.5	17.7	17.7
145°	143.0	120.5	98.1	76.8	59.1	43.7	30.7	20.1	15.4	15.4	15.4
147.5°	132.4	111.1	89.8	69.7	53.2	37.8	27.2	17.7	13.0	11.8	13.0
150°	118.2	98.1	78.0	60.3	44.9	31.9	22.5	14.2	10.6	10.6	10.6
152.5°	99.3	81.5	65.0	49.6	35.5	24.8	16.5	10.6	8.3	8.3	8.3
155°	78.0	63.8	50.8	37.8	27.2	18.9	13.0	8.3	5.9	5.9	5.9
157.5°	59.1	48.5	37.8	27.2	20.1	14.2	9.5	5.9	4.7	4.7	4.7
160°	41.4	33.1	26.0	18.9	13.0	9.5	5.9	3.5	2.4	2.4	2.4
162.5°	26.0	21.3	16.5	10.6	8.3	5.9	3.5	2.4	1.2	1.2	1.2
165°	11.8	10.6	7.1	4.7	3.5	2.4	1.2	1.2	0.0	0.0	0.0
167.5°	3.5	2.4	2.4	1.2	1.2	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)