

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: P691021

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691021
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-T2-7040-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 2654 lumens
Efficiency: N/A
Efficacy: 114.4 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



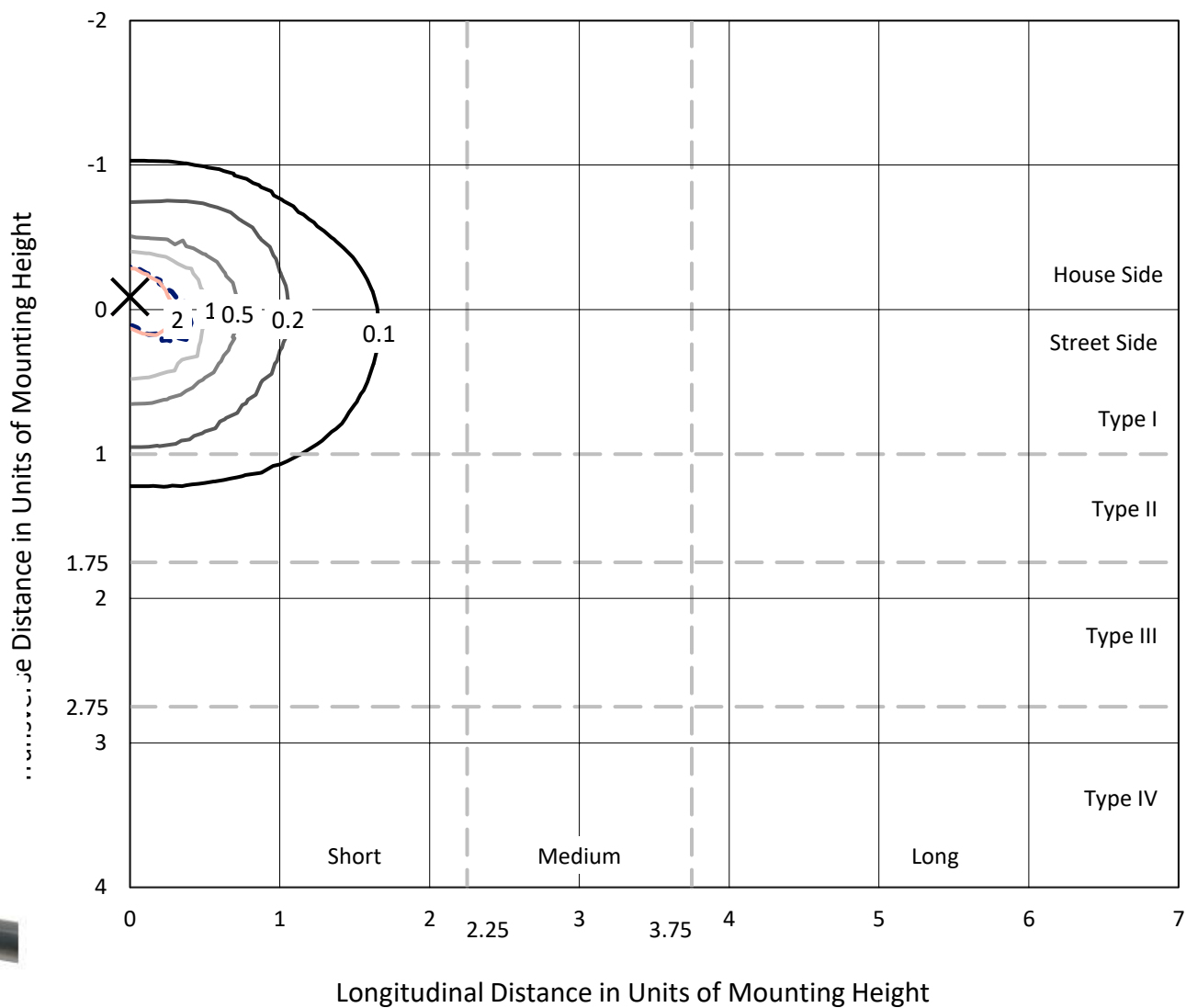
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



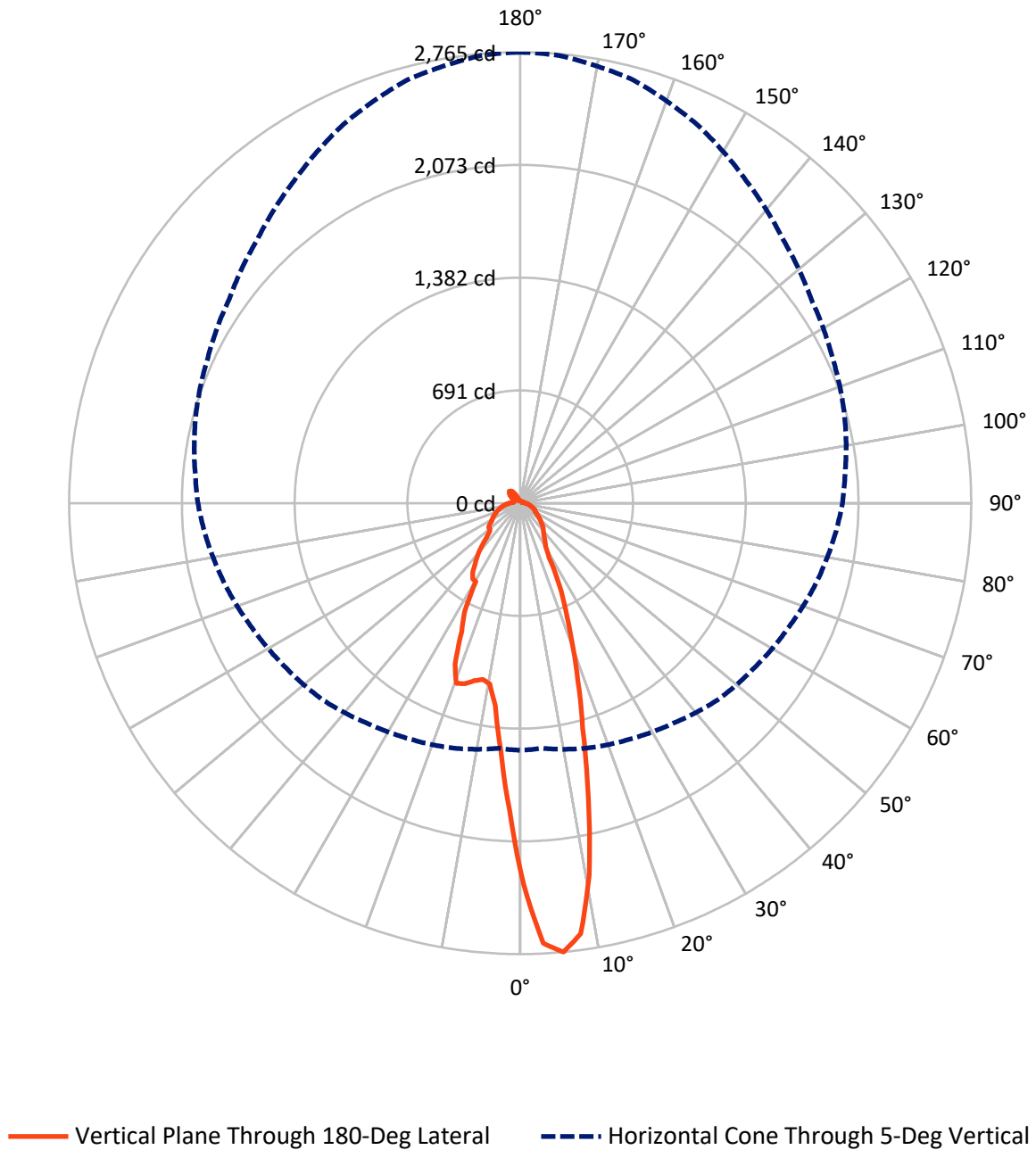
Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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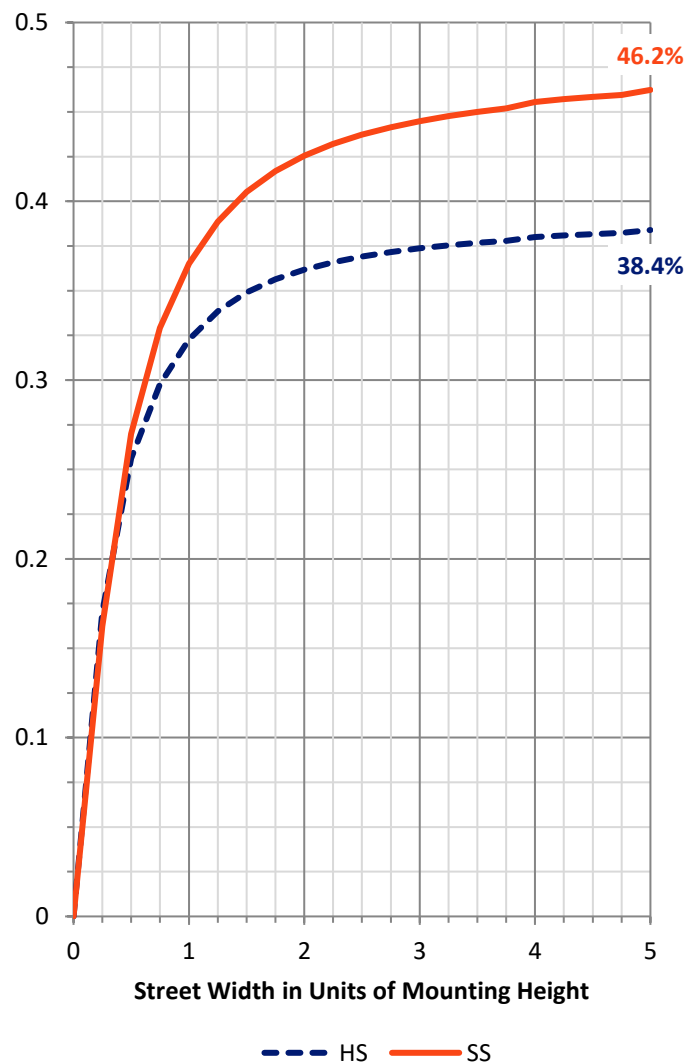
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1045.9	122.8	1168.7
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	1257.0	228.3	1485.3
	% Fixture	47.4	8.6	56.0
Total	Lumens	2302.9	351.1	2654.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	6.8
10°-20°	383.2	14.4
20°-30°	417.1	15.7
30°-40°	305.3	11.5
40°-50°	256.7	9.7
50°-60°	260.7	9.8
60°-70°	221.6	8.3
70°-80°	165.3	6.2
80°-90°	112.5	4.2
90°-100°	67.6	2.5
100°-110°	38.7	1.5
110°-120°	35.7	1.3
120°-130°	51.8	2.0
130°-140°	71.3	2.7
140°-150°	59.0	2.2
150°-160°	24.0	0.9
160°-170°	3.0	0.1
170°-180°	0.0	0.0
0°-90°	2302.9	86.8
0°-180°	2654.0	100.0

Coefficient of Utilization



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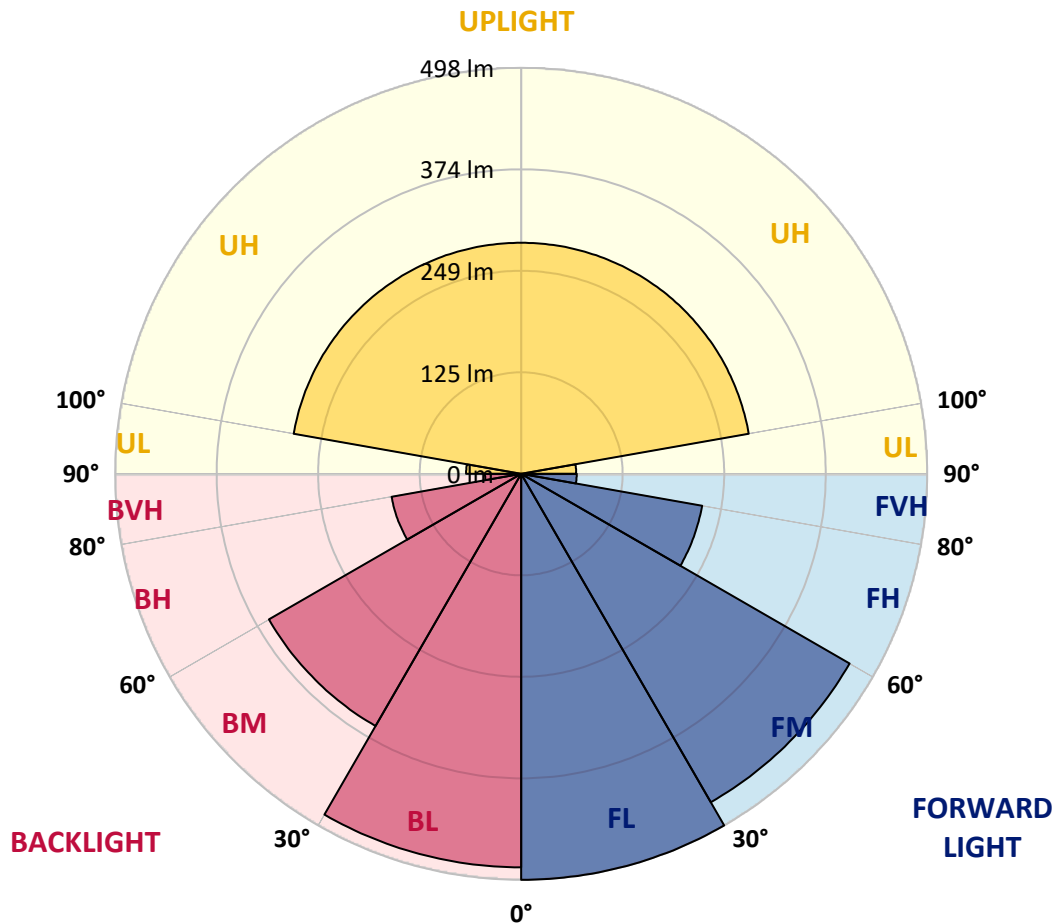
CATALOG NUMBER: CRTK2-C013-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	498.1	18.8			
FM	(30°-60°)	465.3	17.5			
FH	(60°-80°)	225.5	8.5			G0/660
FVH	(80°-90°)	68.2	2.6			G1/100
BL	(0°-30°)	482.8	18.2	B1/500		
BM	(30°-60°)	357.3	13.5	B1/1000		
BH	(60°-80°)	161.4	6.1	B1/500		G1/500
BVH	(80°-90°)	44.4	1.7			G1/100
UL	(90°-100°)	67.6	2.5		U3/500	
UH	(100°-180°)	283.5	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°	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1
2.5°	1881.6	1878.0	1904.0	1909.9	1912.3	1939.5	1976.1	2000.9	2045.9	2089.6	2107.3
5°	1515.2	1508.1	1555.4	1595.6	1644.0	1707.8	1755.1	1811.8	1879.2	1944.2	1974.9
7.5°	1249.3	1258.7	1326.1	1408.8	1486.8	1562.5	1620.4	1668.8	1707.8	1749.2	1757.5
10°	1124.0	1132.3	1198.4	1277.6	1349.7	1426.5	1476.2	1517.6	1542.4	1573.1	1583.7
12.5°	1103.9	1109.8	1154.7	1210.3	1264.6	1334.4	1397.0	1443.1	1471.5	1496.3	1498.6
15°	1124.0	1126.3	1153.5	1190.2	1237.4	1295.4	1367.5	1419.5	1451.4	1462.0	1459.6
17.5°	1157.1	1157.1	1170.1	1200.8	1245.7	1301.3	1369.8	1423.0	1456.1	1460.8	1451.4
20°	1171.3	1173.6	1181.9	1216.2	1256.4	1307.2	1375.7	1420.6	1446.6	1433.6	1417.1
22.5°	1064.9	1060.2	1082.6	1154.7	1244.5	1335.5	1400.5	1451.4	1465.5	1421.8	1386.4
25°	861.6	864.0	878.1	913.6	983.3	1067.3	1211.4	1366.3	1473.8	1457.3	1404.1
27.5°	751.7	744.6	748.1	754.0	744.6	726.9	743.4	739.9	737.5	780.1	784.8
30°	551.9	553.1	559.0	569.7	592.1	625.2	660.7	680.8	698.5	731.6	726.9
32.5°	548.4	549.6	553.1	562.6	574.4	596.9	619.3	627.6	646.5	673.7	665.4
35°	512.9	509.4	518.9	527.1	530.7	540.1	557.9	569.7	581.5	600.4	595.7
37.5°	455.0	456.2	475.1	488.1	491.7	504.7	521.2	530.7	543.7	560.2	551.9
40°	405.4	406.6	429.0	443.2	451.5	469.2	494.0	505.9	527.1	540.1	530.7
42.5°	348.7	353.4	368.8	385.3	390.0	400.7	417.2	432.6	459.8	477.5	471.6
45°	290.7	293.1	303.7	320.3	327.4	339.2	354.6	368.8	390.0	404.2	403.0
47.5°	256.5	258.8	268.3	282.5	296.7	312.0	328.6	342.7	362.8	374.7	369.9
50°	242.3	244.7	256.5	273.0	290.7	310.8	330.9	346.3	365.2	372.3	366.4
52.5°	244.7	244.7	261.2	282.5	307.3	334.5	359.3	378.2	393.6	398.3	385.3
55°	231.7	235.2	252.9	282.5	320.3	362.8	405.4	445.6	468.0	463.3	438.5
57.5°	211.6	215.1	228.1	260.0	300.2	351.0	411.3	460.9	488.1	491.7	466.8
60°	199.7	202.1	213.9	238.7	274.2	315.6	369.9	410.1	440.8	450.3	432.6
62.5°	189.1	191.5	200.9	219.8	245.8	277.7	308.5	334.5	359.3	368.8	361.7
65°	177.3	178.5	187.9	204.5	225.7	252.9	278.9	297.8	317.9	323.8	315.6
67.5°	165.5	166.6	174.9	190.3	210.4	235.2	255.3	276.6	296.7	301.4	295.5
70°	154.8	156.0	163.1	177.3	195.0	218.7	237.6	251.7	271.8	276.6	269.5
72.5°	144.2	145.4	152.5	165.5	182.0	203.3	219.8	234.0	250.6	251.7	245.8
75°	133.6	134.7	140.6	152.5	166.6	187.9	203.3	215.1	229.3	229.3	222.2
77.5°	121.7	124.1	128.8	139.5	152.5	172.6	186.7	198.6	210.4	209.2	202.1
80°	111.1	112.3	117.0	126.5	138.3	157.2	171.4	180.8	191.5	190.3	184.4
82.5°	99.3	100.5	104.0	113.5	124.1	141.8	156.0	165.5	174.9	172.6	166.6
85°	87.5	88.6	93.4	100.5	111.1	127.6	140.6	150.1	157.2	154.8	150.1
87.5°	78.0	78.0	81.6	88.6	98.1	113.5	125.3	134.7	140.6	139.5	134.7
90°	67.4	68.5	70.9	76.8	85.1	98.1	109.9	118.2	124.1	121.7	117.0
92.5°	59.1	59.1	61.5	67.4	74.5	86.3	96.9	104.0	108.7	107.6	104.0
95°	50.8	52.0	53.2	57.9	63.8	73.3	82.7	89.8	94.6	93.4	91.0
97.5°	44.9	46.1	47.3	49.6	55.5	61.5	69.7	75.6	80.4	79.2	76.8
100°	41.4	41.4	41.4	43.7	47.3	52.0	57.9	62.6	65.0	66.2	63.8
102.5°	37.8	37.8	39.0	39.0	41.4	43.7	47.3	50.8	52.0	52.0	52.0
105°	36.6	36.6	37.8	37.8	39.0	40.2	42.5	43.7	44.9	44.9	43.7
107.5°	36.6	36.6	36.6	36.6	37.8	39.0	40.2	41.4	41.4	41.4	40.2
110°	37.8	37.8	37.8	37.8	37.8	39.0	39.0	40.2	40.2	39.0	39.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	39.0	39.0	39.0	39.0	39.0	40.2	40.2	40.2	40.2	39.0	39.0
115°	41.4	41.4	41.4	42.5	42.5	42.5	42.5	42.5	42.5	41.4	40.2
117.5°	46.1	46.1	46.1	46.1	47.3	47.3	47.3	47.3	47.3	44.9	44.9
120°	52.0	50.8	52.0	53.2	54.4	54.4	54.4	54.4	54.4	52.0	50.8
122.5°	57.9	57.9	59.1	61.5	63.8	65.0	63.8	63.8	63.8	60.3	59.1
125°	65.0	65.0	68.5	73.3	76.8	78.0	76.8	76.8	76.8	73.3	70.9
127.5°	73.3	73.3	78.0	85.1	91.0	94.6	93.4	93.4	93.4	87.5	83.9
130°	81.6	81.6	88.6	98.1	107.6	109.9	111.1	112.3	112.3	105.2	100.5
132.5°	87.5	88.6	96.9	109.9	121.7	125.3	128.8	130.0	130.0	121.7	114.6
135°	93.4	94.6	105.2	120.6	133.6	141.8	145.4	146.6	147.7	138.3	130.0
137.5°	96.9	98.1	109.9	127.6	140.6	151.3	159.6	161.9	161.9	151.3	140.6
140°	96.9	98.1	111.1	127.6	141.8	154.8	164.3	169.0	169.0	158.4	148.9
142.5°	94.6	96.9	108.7	125.3	139.5	152.5	163.1	167.8	167.8	158.4	148.9
145°	89.8	91.0	102.8	117.0	131.2	146.6	158.4	163.1	163.1	153.6	144.2
147.5°	81.6	82.7	92.2	105.2	119.4	134.7	146.6	152.5	151.3	143.0	134.7
150°	70.9	70.9	79.2	89.8	104.0	118.2	130.0	135.9	135.9	127.6	120.6
152.5°	57.9	57.9	63.8	72.1	83.9	98.1	107.6	113.5	113.5	107.6	101.6
155°	44.9	44.9	49.6	55.5	65.0	75.6	82.7	88.6	88.6	83.9	79.2
157.5°	31.9	31.9	36.6	41.4	48.5	56.7	62.6	66.2	67.4	62.6	60.3
160°	21.3	21.3	23.6	27.2	33.1	39.0	42.5	46.1	47.3	43.7	42.5
162.5°	11.8	11.8	13.0	16.5	20.1	23.6	27.2	29.5	29.5	28.4	27.2
165°	3.5	3.5	4.7	5.9	8.3	10.6	11.8	13.0	14.2	14.2	13.0
167.5°	0.0	0.0	1.2	1.2	1.2	1.2	2.4	2.4	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°	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1	2333.1
2.5°	2144.0	2210.1	2282.2	2352.0	2437.1	2525.7	2607.3	2662.8	2692.4	2701.8	2701.8
5°	1998.6	2058.9	2112.0	2178.2	2281.1	2414.6	2562.3	2685.3	2755.0	2763.3	2764.5
7.5°	1771.7	1821.3	1876.8	1935.9	2026.9	2146.3	2341.3	2539.9	2653.4	2674.6	2666.4
10°	1586.1	1616.8	1649.9	1672.4	1736.2	1824.8	1957.2	2152.2	2291.7	2308.2	2320.1
12.5°	1499.8	1504.6	1495.1	1499.8	1521.1	1562.5	1627.5	1739.7	1830.8	1846.1	1854.4
15°	1456.1	1432.5	1394.6	1359.2	1340.3	1343.8	1358.0	1404.1	1419.5	1445.5	1433.6
17.5°	1436.0	1382.8	1323.7	1255.2	1212.6	1168.9	1145.3	1137.0	1131.1	1132.3	1142.9
20°	1385.2	1324.9	1230.4	1140.5	1072.0	1011.7	960.9	924.2	904.1	894.7	901.8
22.5°	1332.0	1238.6	1127.5	1030.6	932.5	855.7	797.8	744.6	715.0	723.3	713.9
25°	1333.2	1193.7	1061.3	933.7	841.5	739.9	647.7	592.1	543.7	553.1	566.1
27.5°	840.3	803.7	709.1	634.7	542.5	491.7	445.6	406.6	379.4	380.6	377.0
30°	712.7	674.9	627.6	568.5	498.8	439.7	386.5	341.6	315.6	308.5	307.3
32.5°	658.3	626.4	582.7	524.8	460.9	401.8	348.7	307.3	281.3	280.1	280.1
35°	586.2	556.7	520.0	470.4	416.0	361.7	312.0	276.6	255.3	255.3	254.1
37.5°	541.3	515.3	479.8	433.8	385.3	330.9	287.2	255.3	232.8	231.7	232.8
40°	517.7	490.5	456.2	412.5	364.0	312.0	270.7	237.6	221.0	219.8	218.7
42.5°	470.4	449.1	419.6	379.4	336.8	290.7	251.7	222.2	208.0	206.8	208.0
45°	399.5	384.1	364.0	334.5	299.0	260.0	225.7	203.3	189.1	189.1	189.1
47.5°	366.4	352.2	329.7	300.2	269.5	232.8	204.5	185.6	172.6	172.6	172.6
50°	358.1	340.4	310.8	277.7	244.7	212.7	186.7	167.8	158.4	157.2	158.4
52.5°	369.9	342.7	302.6	263.6	226.9	196.2	171.4	153.6	144.2	144.2	144.2
55°	412.5	362.8	309.7	260.0	216.3	182.0	157.2	139.5	130.0	128.8	130.0
57.5°	440.8	378.2	312.0	256.5	209.2	172.6	145.4	126.5	117.0	115.8	117.0
60°	416.0	365.2	301.4	247.0	203.3	165.5	137.1	118.2	108.7	107.6	107.6
62.5°	345.1	315.6	269.5	223.4	187.9	154.8	128.8	111.1	101.6	100.5	101.6
65°	306.1	280.1	239.9	203.3	172.6	144.2	121.7	106.4	96.9	96.9	96.9
67.5°	284.8	261.2	223.4	187.9	159.6	133.6	112.3	98.1	89.8	89.8	89.8
70°	260.0	236.4	202.1	170.2	144.2	121.7	102.8	88.6	81.6	80.4	81.6
72.5°	238.7	215.1	183.2	153.6	130.0	109.9	93.4	80.4	74.5	73.3	74.5
75°	215.1	192.6	161.9	135.9	115.8	98.1	83.9	72.1	67.4	66.2	66.2
77.5°	195.0	173.7	145.4	121.7	104.0	87.5	74.5	66.2	61.5	60.3	60.3
80°	177.3	157.2	130.0	108.7	92.2	78.0	67.4	59.1	54.4	54.4	54.4
82.5°	158.4	140.6	115.8	95.7	81.6	69.7	59.1	52.0	48.5	48.5	48.5
85°	143.0	125.3	101.6	85.1	70.9	60.3	52.0	46.1	42.5	42.5	42.5
87.5°	126.5	111.1	89.8	74.5	62.6	53.2	44.9	39.0	37.8	36.6	36.6
90°	109.9	95.7	76.8	63.8	53.2	44.9	37.8	33.1	31.9	30.7	30.7
92.5°	98.1	85.1	69.7	57.9	48.5	40.2	35.5	30.7	29.5	29.5	28.4
95°	85.1	74.5	61.5	52.0	43.7	37.8	33.1	29.5	28.4	28.4	27.2
97.5°	73.3	63.8	54.4	47.3	40.2	35.5	30.7	28.4	26.0	26.0	26.0
100°	61.5	54.4	47.3	40.2	36.6	31.9	28.4	26.0	24.8	23.6	23.6
102.5°	49.6	44.9	39.0	35.5	30.7	27.2	24.8	22.5	21.3	21.3	21.3
105°	42.5	39.0	35.5	31.9	28.4	24.8	22.5	20.1	18.9	18.9	18.9
107.5°	39.0	36.6	33.1	29.5	27.2	23.6	21.3	17.7	16.5	17.7	17.7
110°	37.8	35.5	31.9	29.5	26.0	23.6	21.3	16.5	15.4	16.5	16.5

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	37.8	35.5	33.1	29.5	27.2	23.6	21.3	16.5	15.4	15.4	15.4
115°	39.0	37.8	34.3	31.9	28.4	24.8	21.3	16.5	15.4	15.4	15.4
117.5°	43.7	41.4	37.8	34.3	30.7	26.0	22.5	16.5	15.4	15.4	15.4
120°	48.5	46.1	42.5	37.8	33.1	28.4	23.6	16.5	14.2	15.4	15.4
122.5°	56.7	53.2	48.5	42.5	36.6	30.7	23.6	17.7	13.0	15.4	15.4
125°	67.4	62.6	55.5	47.3	40.2	33.1	24.8	17.7	14.2	15.4	15.4
127.5°	79.2	73.3	63.8	53.2	43.7	34.3	26.0	17.7	14.2	14.2	15.4
130°	94.6	85.1	72.1	59.1	47.3	36.6	26.0	17.7	14.2	14.2	14.2
132.5°	107.6	95.7	79.2	63.8	49.6	37.8	26.0	17.7	13.0	13.0	13.0
135°	120.6	105.2	85.1	67.4	52.0	37.8	26.0	16.5	13.0	13.0	13.0
137.5°	131.2	111.1	89.8	68.5	52.0	36.6	24.8	15.4	11.8	11.8	11.8
140°	137.1	114.6	91.0	68.5	49.6	35.5	22.5	14.2	10.6	10.6	10.6
142.5°	137.1	113.5	89.8	66.2	47.3	33.1	20.1	11.8	9.5	9.5	9.5
145°	132.4	108.7	85.1	62.6	43.7	29.5	17.7	10.6	7.1	7.1	8.3
147.5°	124.1	100.5	78.0	56.7	39.0	24.8	15.4	8.3	5.9	5.9	5.9
150°	109.9	88.6	67.4	49.6	33.1	21.3	13.0	7.1	4.7	4.7	4.7
152.5°	92.2	73.3	56.7	41.4	27.2	16.5	9.5	5.9	3.5	3.5	3.5
155°	73.3	57.9	44.9	31.9	20.1	13.0	7.1	4.7	3.5	3.5	3.5
157.5°	54.4	43.7	33.1	23.6	15.4	9.5	5.9	3.5	2.4	2.4	2.4
160°	37.8	30.7	22.5	15.4	9.5	5.9	3.5	2.4	1.2	1.2	1.2
162.5°	24.8	18.9	14.2	9.5	5.9	3.5	2.4	1.2	1.2	1.2	1.2
165°	11.8	9.5	7.1	4.7	2.4	2.4	1.2	1.2	0.0	0.0	0.0
167.5°	3.5	2.4	1.2	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)