

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: P691070

Luminaire Tested: **CRTK2-C013-5TLD-U-T3-8027-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-15)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-5TLD-U-T3-8027-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2613 lumens
Efficiency: N/A
Efficacy: 112.6 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



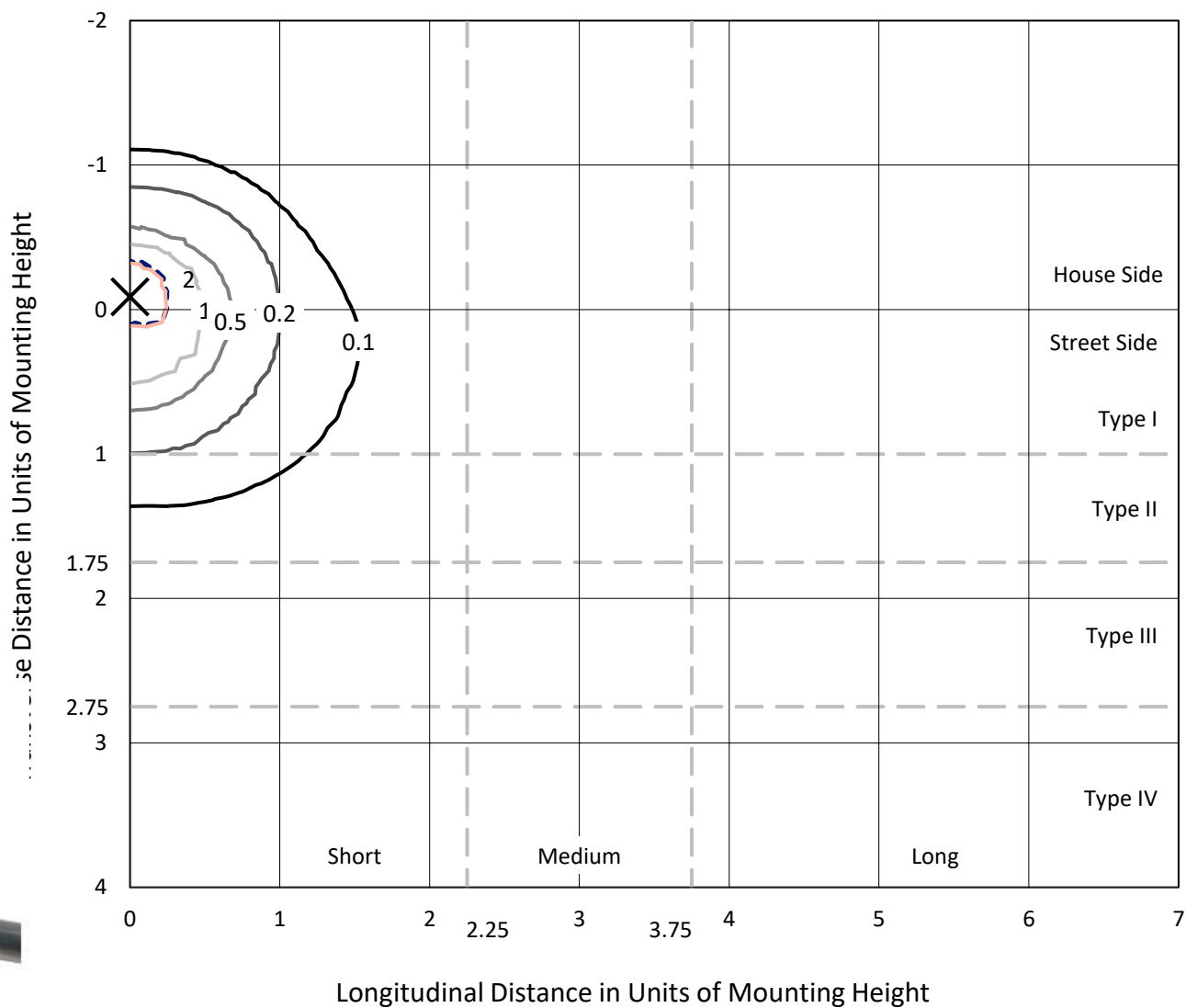
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



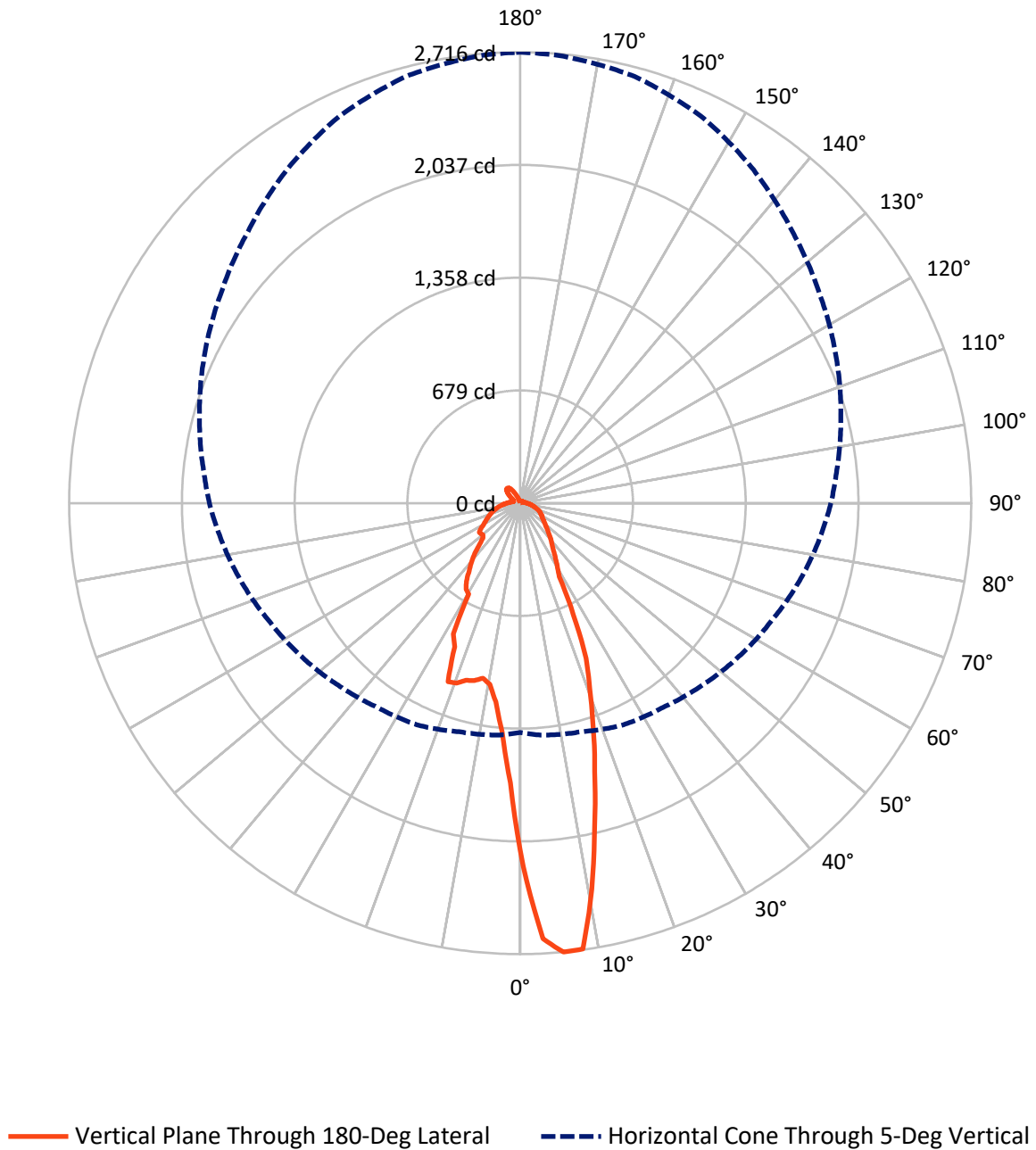
Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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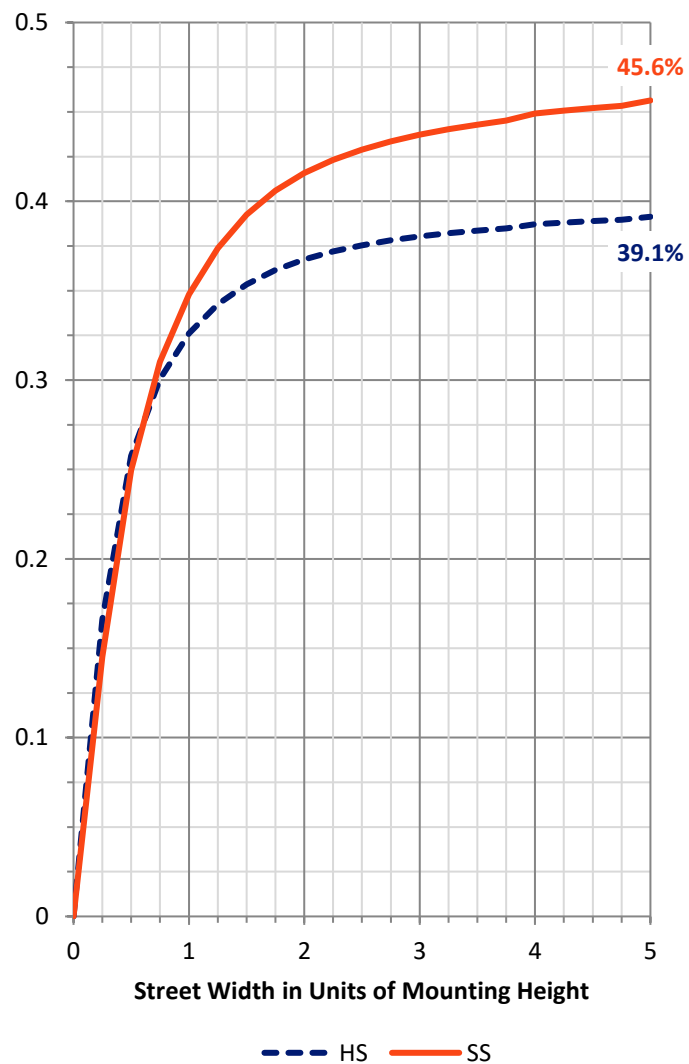
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1050.2	112.6	1162.8
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	1225.6	224.6	1450.2
	% Fixture	46.9	8.6	55.5
Total	Lumens	2275.8	337.2	2613.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	6.7
10°-20°	376.7	14.4
20°-30°	414.8	15.9
30°-40°	304.8	11.7
40°-50°	255.4	9.8
50°-60°	256.2	9.8
60°-70°	219.4	8.4
70°-80°	163.5	6.3
80°-90°	109.4	4.2
90°-100°	65.0	2.5
100°-110°	37.7	1.4
110°-120°	35.1	1.3
120°-130°	50.9	1.9
130°-140°	68.5	2.6
140°-150°	55.5	2.1
150°-160°	21.9	0.8
160°-170°	2.7	0.1
170°-180°	0.0	0.0
0°-90°	2275.8	87.1
0°-180°	2613.0	100.0

Coefficient of Utilization



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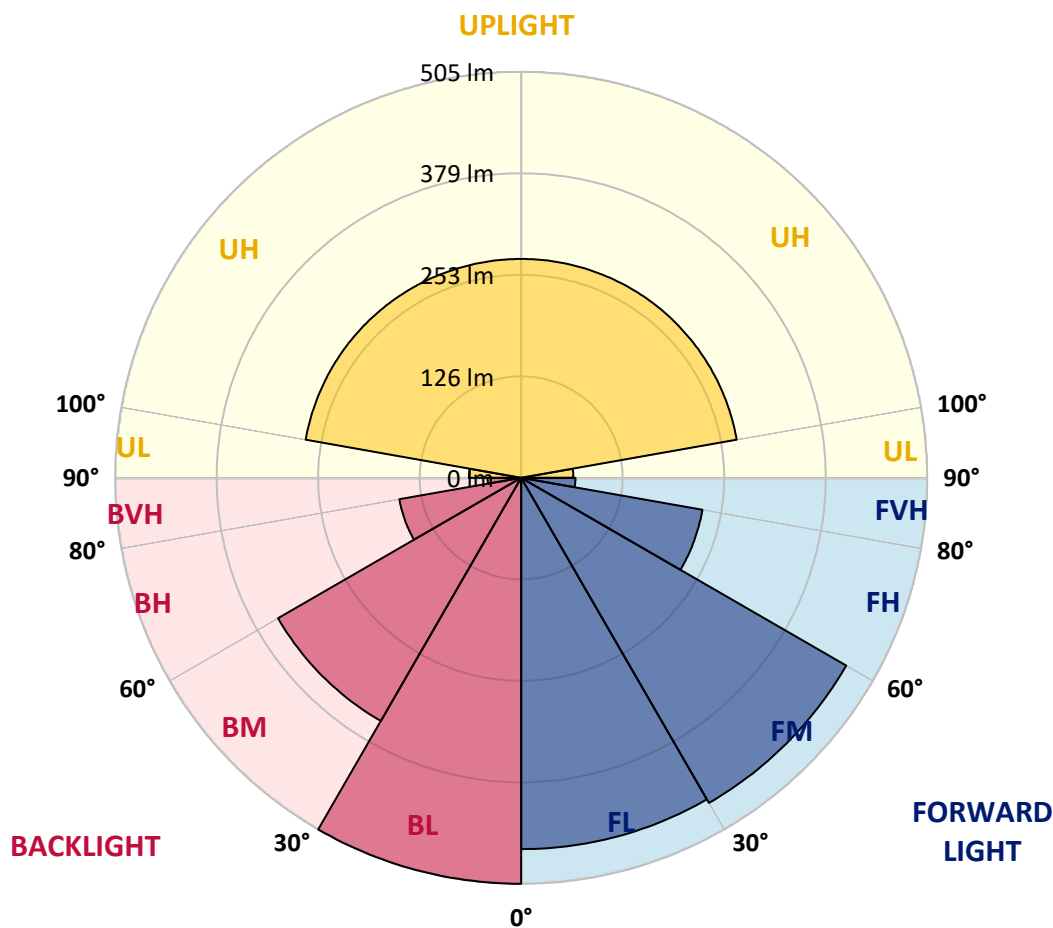
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	462.0	17.7			
FM	(30°-60°)	467.1	17.9			
FH	(60°-80°)	229.0	8.8			G0/660
FVH	(80°-90°)	67.5	2.6			G1/100
BL	(0°-30°)	505.1	19.3	B2/1000		
BM	(30°-60°)	349.3	13.4	B1/1000		
BH	(60°-80°)	153.9	5.9	B1/500		G1/500
BVH	(80°-90°)	41.9	1.6			G1/100
UL	(90°-100°)	65.0	2.5		U3/500	
UH	(100°-180°)	272.3	10.4		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°	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3
2.5°	1685.1	1710.0	1722.5	1759.8	1772.3	1796.1	1832.5	1868.8	1930.0	1975.7	2010.9
5°	1381.1	1401.8	1424.7	1472.4	1500.4	1550.2	1608.3	1670.6	1749.5	1829.3	1870.9
7.5°	1203.7	1208.8	1242.0	1300.2	1351.0	1403.9	1467.2	1521.2	1575.1	1640.5	1682.0
10°	1106.1	1113.4	1135.2	1179.8	1223.4	1267.0	1316.8	1358.3	1413.3	1468.3	1493.2
12.5°	1077.1	1080.2	1098.9	1124.8	1152.8	1180.8	1219.2	1256.6	1305.3	1353.1	1369.7
15°	1103.0	1103.0	1106.1	1116.5	1131.0	1152.8	1181.9	1214.0	1258.6	1293.9	1311.6
17.5°	1115.5	1116.5	1124.8	1126.9	1140.4	1149.7	1175.6	1200.5	1243.1	1272.1	1281.5
20°	1148.7	1148.7	1149.7	1154.9	1157.0	1162.1	1173.6	1187.1	1222.3	1237.9	1235.8
22.5°	1159.0	1154.9	1171.5	1201.6	1200.5	1201.6	1191.2	1194.3	1214.0	1207.8	1193.3
25°	951.5	946.3	965.0	983.7	1010.7	1044.9	1130.0	1196.4	1221.3	1201.6	1169.4
27.5°	885.1	862.3	857.1	812.5	772.0	705.6	699.4	657.9	653.7	679.7	703.5
30°	628.8	629.8	628.8	624.7	621.5	624.7	627.8	620.5	622.6	639.2	631.9
32.5°	613.2	613.2	609.1	607.0	597.7	594.6	589.4	575.9	578.0	590.4	587.3
35°	571.7	569.7	570.7	565.5	548.9	535.4	533.3	521.9	521.9	529.2	526.1
37.5°	509.5	506.4	518.8	517.8	504.3	499.1	493.9	486.7	486.7	492.9	486.7
40°	460.7	458.6	472.1	476.3	468.0	470.0	471.1	464.9	471.1	472.1	463.8
42.5°	408.8	407.8	419.2	418.2	410.9	409.9	408.8	404.7	415.1	423.4	417.1
45°	347.6	344.5	352.8	355.9	353.8	350.7	349.7	349.7	355.9	360.1	353.8
47.5°	307.1	308.2	314.4	321.7	323.7	325.8	324.8	322.7	326.9	327.9	322.7
50°	293.7	294.7	304.0	312.3	318.6	322.7	322.7	319.6	322.7	319.6	312.3
52.5°	299.9	299.9	312.3	324.8	335.2	342.4	343.5	339.3	339.3	331.0	319.6
55°	302.0	304.0	320.6	341.4	360.1	379.8	389.1	386.0	389.1	371.5	352.8
57.5°	282.2	287.4	304.0	328.9	353.8	385.0	404.7	406.8	405.7	390.2	367.3
60°	256.3	260.4	271.9	293.7	317.5	342.4	362.1	366.3	370.4	363.2	342.4
62.5°	238.7	240.7	250.1	265.6	282.2	295.7	303.0	302.0	306.1	304.0	288.5
65°	223.1	224.1	234.5	247.0	257.3	270.8	272.9	272.9	276.0	271.9	259.4
67.5°	206.5	206.5	214.8	226.2	238.7	250.1	253.2	254.2	258.4	254.2	244.9
70°	192.0	192.0	199.2	208.6	217.9	229.3	232.4	233.5	238.7	233.5	224.1
72.5°	178.5	178.5	184.7	193.0	201.3	210.6	213.8	214.8	218.9	213.8	206.5
75°	163.9	165.0	170.2	177.4	184.7	193.0	197.2	197.2	200.3	194.0	187.8
77.5°	149.4	150.5	155.6	161.9	168.1	176.4	178.5	179.5	182.6	176.4	170.2
80°	134.9	137.0	141.1	146.3	152.5	158.8	162.9	162.9	165.0	158.8	154.6
82.5°	121.4	123.5	126.6	130.7	137.0	143.2	147.3	147.3	148.4	143.2	138.0
85°	107.9	110.0	113.1	116.2	121.4	127.6	131.8	131.8	132.8	127.6	123.5
87.5°	95.5	97.5	99.6	102.7	106.9	113.1	117.3	117.3	117.3	113.1	109.0
90°	83.0	84.0	86.1	89.2	93.4	98.6	101.7	102.7	102.7	97.5	95.5
92.5°	73.7	73.7	75.7	77.8	82.0	86.1	89.2	90.3	90.3	87.2	84.0
95°	63.3	64.3	65.4	67.4	70.6	73.7	77.8	77.8	77.8	75.7	73.7
97.5°	56.0	55.0	56.0	57.1	60.2	62.3	65.4	66.4	66.4	64.3	63.3
100°	47.7	48.8	48.8	49.8	50.8	51.9	54.0	55.0	55.0	54.0	54.0
102.5°	44.6	43.6	43.6	43.6	43.6	43.6	44.6	44.6	45.7	44.6	43.6
105°	41.5	41.5	41.5	41.5	40.5	40.5	40.5	40.5	39.4	38.4	38.4
107.5°	40.5	40.5	40.5	40.5	39.4	39.4	38.4	38.4	37.4	36.3	35.3
110°	40.5	40.5	40.5	40.5	39.4	38.4	38.4	37.4	36.3	35.3	34.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	42.5	42.5	42.5	42.5	40.5	39.4	38.4	38.4	36.3	35.3	34.2
115°	46.7	46.7	45.7	45.7	44.6	42.5	41.5	40.5	39.4	37.4	36.3
117.5°	50.8	50.8	50.8	50.8	49.8	47.7	45.7	44.6	43.6	40.5	39.4
120°	58.1	58.1	58.1	59.1	57.1	55.0	52.9	50.8	49.8	46.7	44.6
122.5°	67.4	66.4	68.5	69.5	68.5	65.4	62.3	60.2	58.1	54.0	51.9
125°	76.8	76.8	78.9	82.0	82.0	78.9	74.7	71.6	69.5	63.3	60.2
127.5°	88.2	88.2	91.3	96.5	97.5	94.4	90.3	86.1	83.0	74.7	71.6
130°	98.6	98.6	104.8	111.0	114.1	111.0	106.9	101.7	97.5	88.2	83.0
132.5°	106.9	107.9	115.2	123.5	127.6	126.6	121.4	117.3	113.1	101.7	95.5
135°	115.2	116.2	124.5	134.9	140.1	140.1	135.9	130.7	125.6	113.1	105.8
137.5°	119.3	120.4	130.7	141.1	147.3	149.4	147.3	142.2	137.0	123.5	114.1
140°	119.3	121.4	131.8	142.2	148.4	151.5	151.5	146.3	141.1	128.7	119.3
142.5°	116.2	118.3	127.6	138.0	144.2	148.4	149.4	145.3	140.1	127.6	118.3
145°	110.0	111.0	120.4	129.7	135.9	141.1	143.2	140.1	133.9	123.5	114.1
147.5°	99.6	99.6	107.9	115.2	123.5	128.7	131.8	129.7	124.5	115.2	106.9
150°	85.1	85.1	91.3	98.6	105.8	112.1	115.2	115.2	110.0	102.7	94.4
152.5°	67.4	68.5	72.6	78.9	86.1	91.3	95.5	95.5	92.3	86.1	78.9
155°	51.9	51.9	55.0	59.1	65.4	70.6	73.7	73.7	71.6	66.4	62.3
157.5°	37.4	37.4	39.4	43.6	47.7	51.9	55.0	55.0	52.9	49.8	46.7
160°	24.9	24.9	25.9	29.1	32.2	35.3	37.4	38.4	37.4	35.3	32.2
162.5°	13.5	13.5	14.5	16.6	18.7	21.8	22.8	23.9	23.9	21.8	20.8
165°	4.2	4.2	4.2	6.2	7.3	9.3	10.4	11.4	11.4	11.4	10.4
167.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.1	3.1	3.1	3.1
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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°	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3	2187.3
2.5°	2044.1	2120.9	2206.0	2293.2	2382.4	2466.5	2537.0	2593.0	2623.1	2630.4	2626.3
5°	1908.2	1998.5	2098.1	2199.8	2316.0	2449.9	2572.3	2660.5	2706.1	2713.4	2715.5
7.5°	1714.2	1793.0	1890.6	2007.8	2154.1	2297.3	2486.2	2617.9	2691.6	2711.3	2711.3
10°	1509.8	1579.3	1640.5	1743.2	1870.9	2004.7	2165.5	2286.9	2361.7	2385.5	2364.8
12.5°	1394.6	1424.7	1466.2	1541.9	1621.8	1723.5	1862.6	1941.4	1990.2	2004.7	1992.3
15°	1320.9	1336.5	1354.1	1386.3	1442.3	1505.6	1587.6	1636.3	1666.4	1684.1	1677.9
17.5°	1285.6	1285.6	1282.5	1289.8	1304.3	1333.4	1389.4	1407.0	1420.5	1427.8	1423.6
20°	1231.7	1215.1	1201.6	1180.8	1172.5	1171.5	1185.0	1203.7	1202.6	1203.7	1195.4
22.5°	1177.7	1143.5	1110.3	1079.1	1043.9	1026.2	1013.8	1020.0	1014.8	1020.0	1014.8
25°	1151.8	1082.3	1015.8	940.1	876.8	828.0	795.9	776.1	742.9	755.4	744.0
27.5°	714.9	685.9	657.9	601.8	548.9	530.2	514.7	506.4	500.1	503.3	501.2
30°	619.5	595.6	573.8	544.8	504.3	479.4	460.7	444.1	438.9	440.0	438.9
32.5°	574.8	556.2	529.2	499.1	462.8	431.7	409.9	394.3	386.0	391.2	387.0
35°	514.7	496.0	473.2	445.1	414.0	386.0	365.2	350.7	341.4	343.5	342.4
37.5°	475.2	457.6	437.9	407.8	380.8	353.8	333.1	318.6	309.2	311.3	309.2
40°	452.4	432.7	411.9	385.0	358.0	330.0	310.3	293.7	284.3	284.3	284.3
42.5°	405.7	390.2	372.5	344.5	320.6	296.8	277.0	264.6	254.2	255.3	253.2
45°	346.6	335.2	321.7	303.0	283.3	264.6	248.0	238.7	230.4	231.4	230.4
47.5°	316.5	306.1	290.5	276.0	258.4	241.8	227.2	215.8	209.6	210.6	208.6
50°	305.1	292.6	275.0	255.3	238.7	222.1	207.5	199.2	193.0	194.0	193.0
52.5°	309.2	289.5	264.6	240.7	221.0	204.4	193.0	183.7	179.5	180.5	178.5
55°	336.2	302.0	264.6	234.5	209.6	190.9	179.5	169.1	165.0	165.0	165.0
57.5°	345.5	308.2	261.5	227.2	200.3	181.6	168.1	157.7	153.6	153.6	153.6
60°	323.7	291.6	249.0	216.9	192.0	174.3	162.9	155.6	152.5	152.5	152.5
62.5°	277.0	256.3	224.1	198.2	179.5	163.9	152.5	143.2	140.1	139.0	139.0
65°	251.1	231.4	204.4	182.6	166.0	153.6	143.2	135.9	131.8	131.8	131.8
67.5°	234.5	215.8	190.9	170.2	154.6	141.1	131.8	124.5	122.4	121.4	121.4
70°	215.8	198.2	173.3	154.6	140.1	128.7	119.3	113.1	111.0	111.0	110.0
72.5°	197.2	180.5	156.7	139.0	125.6	115.2	106.9	101.7	99.6	98.6	98.6
75°	179.5	162.9	141.1	124.5	112.1	102.7	95.5	90.3	88.2	88.2	88.2
77.5°	162.9	147.3	126.6	111.0	100.7	91.3	85.1	80.9	78.9	78.9	78.9
80°	147.3	131.8	113.1	98.6	88.2	80.9	75.7	71.6	69.5	70.6	69.5
82.5°	130.7	118.3	100.7	87.2	78.9	71.6	66.4	63.3	61.2	62.3	61.2
85°	117.3	104.8	88.2	76.8	68.5	62.3	58.1	55.0	52.9	54.0	52.9
87.5°	103.8	92.3	77.8	67.4	60.2	55.0	49.8	47.7	46.7	46.7	45.7
90°	89.2	78.9	66.4	58.1	50.8	46.7	42.5	40.5	39.4	38.4	38.4
92.5°	78.9	70.6	59.1	51.9	45.7	42.5	38.4	36.3	35.3	35.3	35.3
95°	69.5	62.3	52.9	46.7	42.5	38.4	35.3	34.2	33.2	33.2	32.2
97.5°	60.2	54.0	47.7	42.5	38.4	35.3	32.2	31.1	30.1	30.1	30.1
100°	50.8	46.7	41.5	37.4	34.2	32.2	29.1	28.0	27.0	27.0	27.0
102.5°	42.5	39.4	35.3	32.2	30.1	28.0	25.9	24.9	23.9	23.9	23.9
105°	37.4	34.2	32.2	29.1	27.0	24.9	23.9	21.8	20.8	20.8	20.8
107.5°	34.2	32.2	30.1	28.0	25.9	23.9	21.8	19.7	18.7	18.7	18.7
110°	33.2	31.1	29.1	27.0	24.9	22.8	21.8	18.7	17.6	17.6	17.6

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CATALOG NUMBER: CRTK2-C013-5TLD-U-T3-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	33.2	32.2	30.1	28.0	25.9	23.9	21.8	17.6	16.6	16.6	16.6
115°	35.3	33.2	31.1	29.1	27.0	24.9	22.8	17.6	16.6	16.6	16.6
117.5°	38.4	36.3	33.2	31.1	29.1	25.9	22.8	18.7	16.6	16.6	16.6
120°	43.6	40.5	37.4	34.2	31.1	28.0	23.9	18.7	15.6	16.6	16.6
122.5°	49.8	46.7	41.5	37.4	34.2	30.1	24.9	19.7	15.6	16.6	16.6
125°	58.1	54.0	47.7	42.5	37.4	32.2	25.9	19.7	15.6	16.6	17.6
127.5°	67.4	61.2	54.0	46.7	40.5	34.2	28.0	20.8	15.6	17.6	17.6
130°	77.8	70.6	61.2	51.9	44.6	36.3	29.1	20.8	16.6	16.6	16.6
132.5°	89.2	78.9	66.4	56.0	46.7	37.4	29.1	20.8	16.6	16.6	16.6
135°	97.5	85.1	71.6	59.1	48.8	38.4	30.1	20.8	15.6	15.6	15.6
137.5°	104.8	90.3	75.7	61.2	49.8	38.4	29.1	19.7	15.6	14.5	14.5
140°	109.0	92.3	75.7	61.2	48.8	37.4	27.0	18.7	13.5	13.5	13.5
142.5°	109.0	91.3	74.7	59.1	45.7	35.3	25.9	16.6	12.5	12.5	12.5
145°	104.8	87.2	70.6	56.0	42.5	32.2	22.8	15.6	11.4	11.4	11.4
147.5°	97.5	79.9	64.3	50.8	37.4	28.0	19.7	12.5	9.3	9.3	9.3
150°	87.2	70.6	56.0	43.6	32.2	22.8	16.6	10.4	7.3	7.3	7.3
152.5°	72.6	59.1	45.7	36.3	25.9	18.7	12.5	8.3	6.2	6.2	6.2
155°	57.1	46.7	36.3	28.0	19.7	13.5	9.3	6.2	4.2	4.2	4.2
157.5°	43.6	35.3	27.0	20.8	14.5	10.4	7.3	4.2	3.1	3.1	3.1
160°	30.1	23.9	18.7	14.5	9.3	7.3	5.2	3.1	2.1	2.1	2.1
162.5°	19.7	15.6	11.4	8.3	6.2	4.2	3.1	2.1	1.0	1.0	1.0
165°	9.3	7.3	6.2	4.2	3.1	2.1	1.0	1.0	0.0	0.0	0.0
167.5°	3.1	2.1	2.1	1.0	1.0	1.0	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)