

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: P691154

Luminaire Tested: **CRTK2-C013-D-U-T3-7050-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691154
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-D-U-T3-7050-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2547 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B1 - U3 - G1

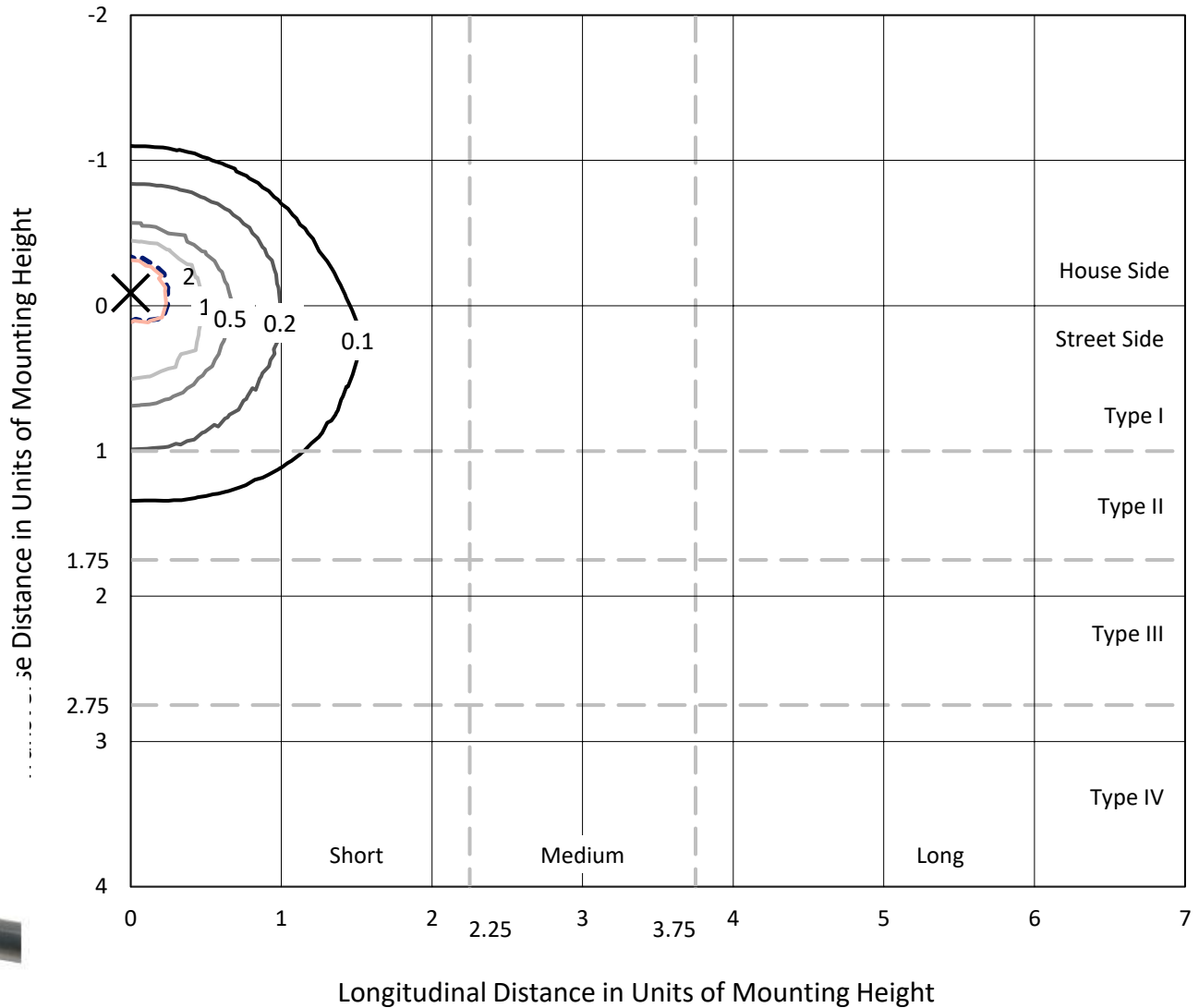
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

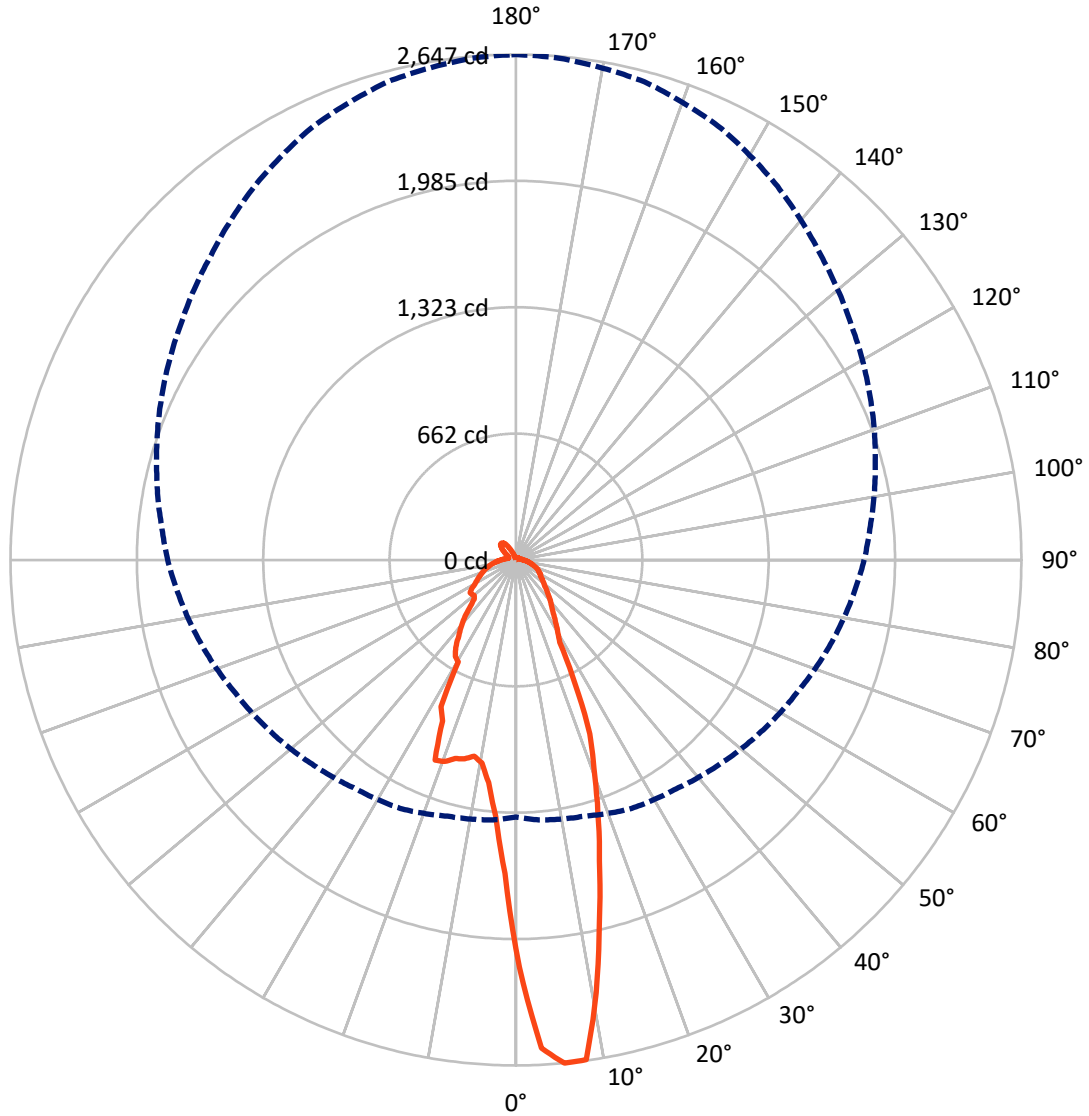
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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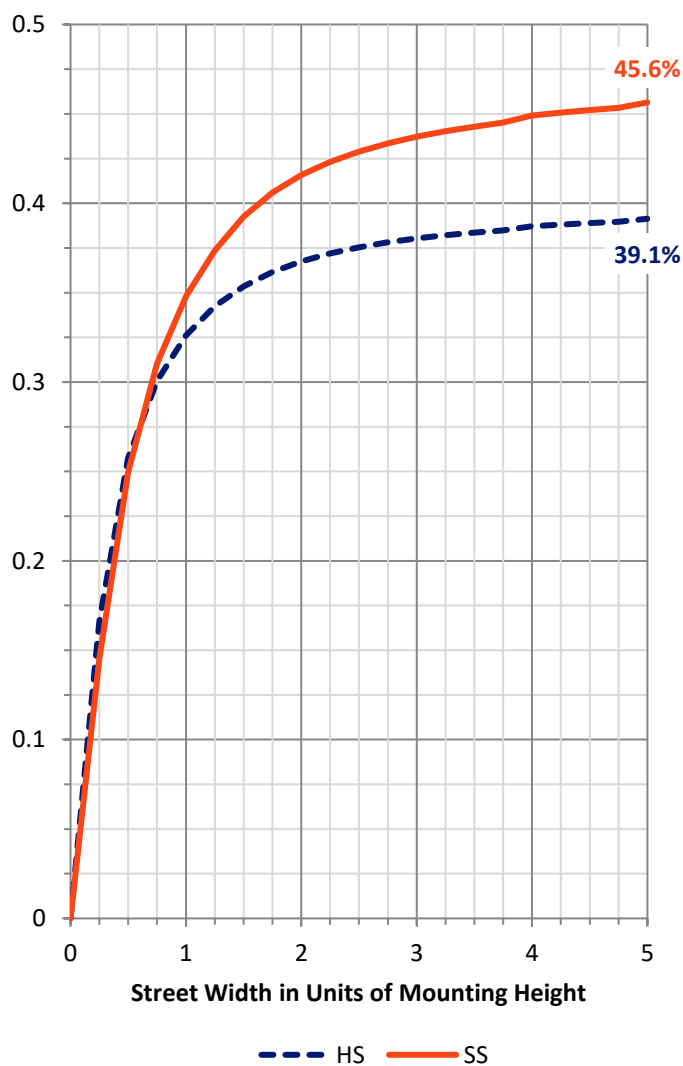
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1023.7	109.8	1133.5
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	1194.6	218.9	1413.5
	% Fixture	46.9	8.6	55.5
Total	Lumens	2218.3	328.7	2547.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	6.7
10°-20°	367.2	14.4
20°-30°	404.3	15.9
30°-40°	297.1	11.7
40°-50°	248.9	9.8
50°-60°	249.7	9.8
60°-70°	213.9	8.4
70°-80°	159.4	6.3
80°-90°	106.6	4.2
90°-100°	63.3	2.5
100°-110°	36.8	1.4
110°-120°	34.2	1.3
120°-130°	49.6	1.9
130°-140°	66.8	2.6
140°-150°	54.1	2.1
150°-160°	21.4	0.8
160°-170°	2.6	0.1
170°-180°	0.0	0.0
0°-90°	2218.3	87.1
0°-180°	2547.0	100.0

Coefficient of Utilization



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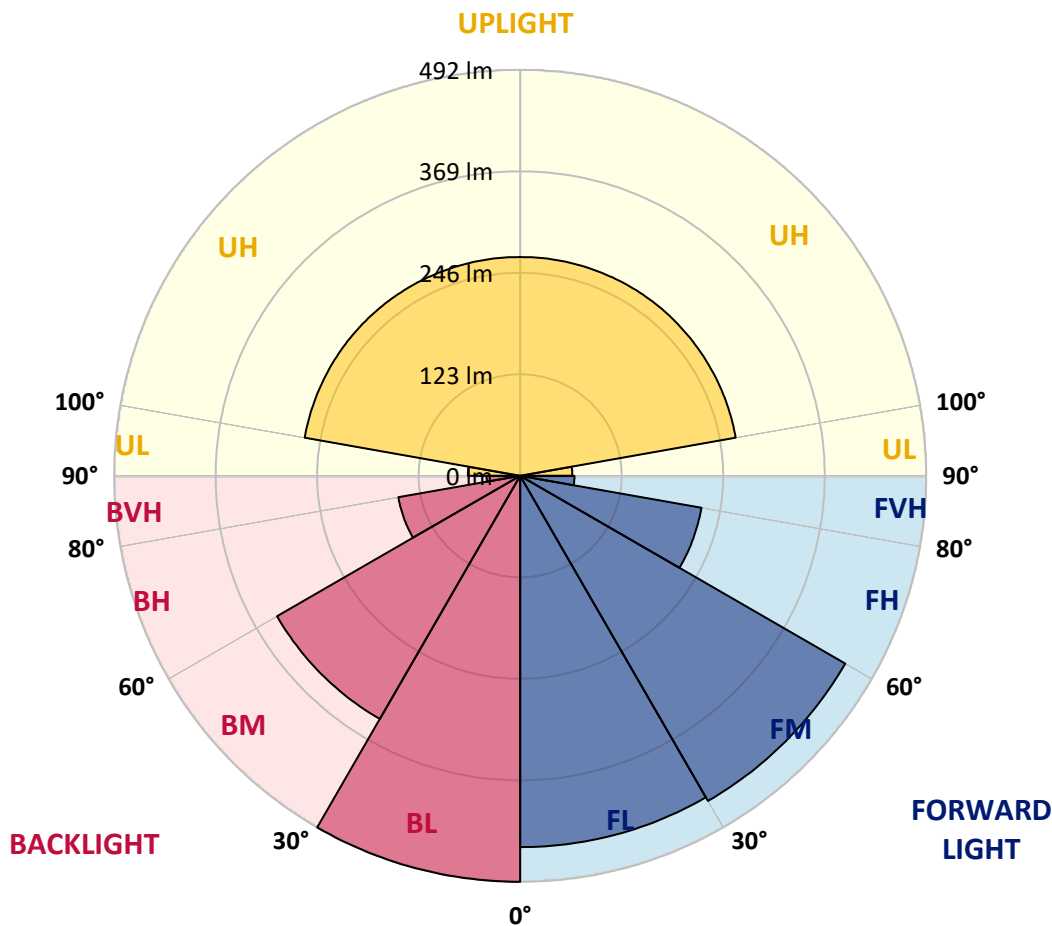
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.3	17.7			
FM (30°-60°)	455.3	17.9			
FH (60°-80°)	223.2	8.8			G0/660
FVH (80°-90°)	65.8	2.6			G1/100
BL (0°-30°)	492.4	19.3	B1/500		
BM (30°-60°)	340.5	13.4	B1/1000		
BH (60°-80°)	150.0	5.9	B1/500		G1/500
BVH (80°-90°)	40.8	1.6			G1/100
UL (90°-100°)	63.3	2.5		U3/500	
UH (100°-180°)	265.4	10.4		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°	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	1642.6	1666.8	1679.0	1715.4	1727.5	1750.8	1786.2	1821.6	1881.3	1925.8	1960.1
5°	1346.2	1366.4	1388.7	1435.2	1462.5	1511.1	1567.7	1628.4	1705.3	1783.1	1823.6
7.5°	1173.3	1178.3	1210.7	1267.3	1316.9	1368.5	1430.2	1482.7	1535.3	1599.1	1639.5
10°	1078.2	1085.3	1106.5	1150.0	1192.5	1234.9	1283.5	1324.0	1377.6	1431.2	1455.4
12.5°	1049.9	1052.9	1071.1	1096.4	1123.7	1151.0	1188.4	1224.8	1272.4	1318.9	1335.1
15°	1075.1	1075.1	1078.2	1088.3	1102.5	1123.7	1152.0	1183.4	1226.9	1261.2	1278.4
17.5°	1087.3	1088.3	1096.4	1098.4	1111.6	1120.7	1145.9	1170.2	1211.7	1240.0	1249.1
20°	1119.6	1119.6	1120.7	1125.7	1127.7	1132.8	1143.9	1157.1	1191.5	1206.6	1204.6
22.5°	1129.8	1125.7	1141.9	1171.2	1170.2	1171.2	1161.1	1164.1	1183.4	1177.3	1163.1
25°	927.5	922.4	940.6	958.8	985.1	1018.5	1101.4	1166.2	1190.4	1171.2	1139.9
27.5°	862.7	840.5	835.4	791.9	752.5	687.8	681.7	641.2	637.2	662.5	685.7
30°	612.9	613.9	612.9	608.9	605.8	608.9	611.9	604.8	606.9	623.0	616.0
32.5°	597.8	597.8	593.7	591.7	582.6	579.5	574.5	561.3	563.4	575.5	572.5
35°	557.3	555.3	556.3	551.2	535.0	521.9	519.9	508.7	508.7	515.8	512.8
37.5°	496.6	493.6	505.7	504.7	491.6	486.5	481.4	474.4	474.4	480.4	474.4
40°	449.1	447.0	460.2	464.2	456.2	458.2	459.2	453.1	459.2	460.2	452.1
42.5°	398.5	397.5	408.6	407.6	400.5	399.5	398.5	394.5	404.6	412.7	406.6
45°	338.8	335.8	343.9	346.9	344.9	341.9	340.9	340.9	346.9	351.0	344.9
47.5°	299.4	300.4	306.5	313.5	315.6	317.6	316.6	314.6	318.6	319.6	314.6
50°	286.2	287.2	296.3	304.4	310.5	314.6	314.6	311.5	314.6	311.5	304.4
52.5°	292.3	292.3	304.4	316.6	326.7	333.8	334.8	330.7	330.7	322.6	311.5
55°	294.3	296.3	312.5	332.8	351.0	370.2	379.3	376.3	379.3	362.1	343.9
57.5°	275.1	280.2	296.3	320.6	344.9	375.2	394.5	396.5	395.5	380.3	358.0
60°	249.8	253.9	265.0	286.2	309.5	333.8	353.0	357.0	361.1	354.0	333.8
62.5°	232.6	234.7	243.8	258.9	275.1	288.3	295.3	294.3	298.4	296.3	281.2
65°	217.5	218.5	228.6	240.7	250.8	264.0	266.0	266.0	269.0	265.0	252.9
67.5°	201.3	201.3	209.4	220.5	232.6	243.8	246.8	247.8	251.8	247.8	238.7
70°	187.1	187.1	194.2	203.3	212.4	223.5	226.6	227.6	232.6	227.6	218.5
72.5°	174.0	174.0	180.0	188.1	196.2	205.3	208.4	209.4	213.4	208.4	201.3
75°	159.8	160.8	165.9	173.0	180.0	188.1	192.2	192.2	195.2	189.1	183.1
77.5°	145.6	146.7	151.7	157.8	163.9	171.9	174.0	175.0	178.0	171.9	165.9
80°	131.5	133.5	137.6	142.6	148.7	154.7	158.8	158.8	160.8	154.7	150.7
82.5°	118.3	120.4	123.4	127.4	133.5	139.6	143.6	143.6	144.6	139.6	134.5
85°	105.2	107.2	110.2	113.3	118.3	124.4	128.5	128.5	129.5	124.4	120.4
87.5°	93.1	95.1	97.1	100.1	104.2	110.2	114.3	114.3	114.3	110.2	106.2
90°	80.9	81.9	83.9	87.0	91.0	96.1	99.1	100.1	100.1	95.1	93.1
92.5°	71.8	71.8	73.8	75.9	79.9	83.9	87.0	88.0	88.0	85.0	81.9
95°	61.7	62.7	63.7	65.7	68.8	71.8	75.9	75.9	75.9	73.8	71.8
97.5°	54.6	53.6	54.6	55.6	58.7	60.7	63.7	64.7	64.7	62.7	61.7
100°	46.5	47.5	47.5	48.5	49.6	50.6	52.6	53.6	53.6	52.6	52.6
102.5°	43.5	42.5	42.5	42.5	42.5	42.5	43.5	43.5	44.5	43.5	42.5
105°	40.5	40.5	40.5	40.5	39.4	39.4	39.4	39.4	38.4	37.4	37.4
107.5°	39.4	39.4	39.4	39.4	38.4	38.4	37.4	37.4	36.4	35.4	34.4
110°	39.4	39.4	39.4	39.4	38.4	37.4	37.4	36.4	35.4	34.4	33.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	41.5	41.5	41.5	41.5	39.4	38.4	37.4	37.4	35.4	34.4	33.4
115°	45.5	45.5	44.5	44.5	43.5	41.5	40.5	39.4	38.4	36.4	35.4
117.5°	49.6	49.6	49.6	49.6	48.5	46.5	44.5	43.5	42.5	39.4	38.4
120°	56.6	56.6	56.6	57.7	55.6	53.6	51.6	49.6	48.5	45.5	43.5
122.5°	65.7	64.7	66.8	67.8	66.8	63.7	60.7	58.7	56.6	52.6	50.6
125°	74.8	74.8	76.9	79.9	79.9	76.9	72.8	69.8	67.8	61.7	58.7
127.5°	86.0	86.0	89.0	94.1	95.1	92.0	88.0	83.9	80.9	72.8	69.8
130°	96.1	96.1	102.2	108.2	111.3	108.2	104.2	99.1	95.1	86.0	80.9
132.5°	104.2	105.2	112.3	120.4	124.4	123.4	118.3	114.3	110.2	99.1	93.1
135°	112.3	113.3	121.4	131.5	136.5	136.5	132.5	127.4	122.4	110.2	103.2
137.5°	116.3	117.3	127.4	137.6	143.6	145.6	143.6	138.6	133.5	120.4	111.3
140°	116.3	118.3	128.5	138.6	144.6	147.7	147.7	142.6	137.6	125.4	116.3
142.5°	113.3	115.3	124.4	134.5	140.6	144.6	145.6	141.6	136.5	124.4	115.3
145°	107.2	108.2	117.3	126.4	132.5	137.6	139.6	136.5	130.5	120.4	111.3
147.5°	97.1	97.1	105.2	112.3	120.4	125.4	128.5	126.4	121.4	112.3	104.2
150°	82.9	82.9	89.0	96.1	103.2	109.2	112.3	112.3	107.2	100.1	92.0
152.5°	65.7	66.8	70.8	76.9	83.9	89.0	93.1	93.1	90.0	83.9	76.9
155°	50.6	50.6	53.6	57.7	63.7	68.8	71.8	71.8	69.8	64.7	60.7
157.5°	36.4	36.4	38.4	42.5	46.5	50.6	53.6	53.6	51.6	48.5	45.5
160°	24.3	24.3	25.3	28.3	31.4	34.4	36.4	37.4	36.4	34.4	31.4
162.5°	13.1	13.1	14.2	16.2	18.2	21.2	22.3	23.3	23.3	21.2	20.2
165°	4.0	4.0	4.0	6.1	7.1	9.1	10.1	11.1	11.1	11.1	10.1
167.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	3.0	3.0	3.0
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°	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	1992.5	2067.4	2150.3	2235.2	2322.2	2404.2	2472.9	2527.6	2556.9	2564.0	2559.9
5°	1860.0	1948.0	2045.1	2144.2	2257.5	2388.0	2507.3	2593.3	2637.8	2644.9	2646.9
7.5°	1670.9	1747.7	1842.8	1957.1	2099.7	2239.3	2423.4	2551.8	2623.6	2642.9	2642.9
10°	1471.6	1539.4	1599.1	1699.2	1823.6	1954.1	2110.8	2229.2	2302.0	2325.3	2305.0
12.5°	1359.4	1388.7	1429.1	1503.0	1580.9	1680.0	1815.5	1892.4	1939.9	1954.1	1941.9
15°	1287.5	1302.7	1319.9	1351.3	1405.9	1467.6	1547.5	1595.0	1624.3	1641.5	1635.5
17.5°	1253.2	1253.2	1250.1	1257.2	1271.4	1299.7	1354.3	1371.5	1384.6	1391.7	1387.7
20°	1200.6	1184.4	1171.2	1151.0	1142.9	1141.9	1155.0	1173.3	1172.2	1173.3	1165.2
22.5°	1148.0	1114.6	1082.2	1051.9	1017.5	1000.3	988.2	994.2	989.2	994.2	989.2
25°	1122.7	1054.9	990.2	916.4	854.7	807.1	775.8	756.5	724.2	736.3	725.2
27.5°	696.9	668.6	641.2	586.6	535.0	516.8	501.7	493.6	487.5	490.5	488.5
30°	603.8	580.6	559.3	531.0	491.6	467.3	449.1	432.9	427.8	428.8	427.8
32.5°	560.3	542.1	515.8	486.5	451.1	420.8	399.5	384.3	376.3	381.3	377.3
35°	501.7	483.5	461.2	433.9	403.6	376.3	356.0	341.9	332.8	334.8	333.8
37.5°	463.2	446.0	426.8	397.5	371.2	344.9	324.7	310.5	301.4	303.4	301.4
40°	441.0	421.8	401.5	375.2	348.9	321.6	302.4	286.2	277.1	277.1	277.1
42.5°	395.5	380.3	363.1	335.8	312.5	289.3	270.1	257.9	247.8	248.8	246.8
45°	337.8	326.7	313.5	295.3	276.1	257.9	241.7	232.6	224.5	225.5	224.5
47.5°	308.5	298.4	283.2	269.0	251.8	235.7	221.5	210.4	204.3	205.3	203.3
50°	297.4	285.2	268.0	248.8	232.6	216.4	202.3	194.2	188.1	189.1	188.1
52.5°	301.4	282.2	257.9	234.7	215.4	199.3	188.1	179.0	175.0	176.0	174.0
55°	327.7	294.3	257.9	228.6	204.3	186.1	175.0	164.9	160.8	160.8	160.8
57.5°	336.8	300.4	254.9	221.5	195.2	177.0	163.9	153.7	149.7	149.7	149.7
60°	315.6	284.2	242.7	211.4	187.1	169.9	158.8	151.7	148.7	148.7	148.7
62.5°	270.1	249.8	218.5	193.2	175.0	159.8	148.7	139.6	136.5	135.5	135.5
65°	244.8	225.5	199.3	178.0	161.8	149.7	139.6	132.5	128.5	128.5	128.5
67.5°	228.6	210.4	186.1	165.9	150.7	137.6	128.5	121.4	119.3	118.3	118.3
70°	210.4	193.2	168.9	150.7	136.5	125.4	116.3	110.2	108.2	108.2	107.2
72.5°	192.2	176.0	152.7	135.5	122.4	112.3	104.2	99.1	97.1	96.1	96.1
75°	175.0	158.8	137.6	121.4	109.2	100.1	93.1	88.0	86.0	86.0	86.0
77.5°	158.8	143.6	123.4	108.2	98.1	89.0	82.9	78.9	76.9	76.9	76.9
80°	143.6	128.5	110.2	96.1	86.0	78.9	73.8	69.8	67.8	68.8	67.8
82.5°	127.4	115.3	98.1	85.0	76.9	69.8	64.7	61.7	59.7	60.7	59.7
85°	114.3	102.2	86.0	74.8	66.8	60.7	56.6	53.6	51.6	52.6	51.6
87.5°	101.1	90.0	75.9	65.7	58.7	53.6	48.5	46.5	45.5	45.5	44.5
90°	87.0	76.9	64.7	56.6	49.6	45.5	41.5	39.4	38.4	37.4	37.4
92.5°	76.9	68.8	57.7	50.6	44.5	41.5	37.4	35.4	34.4	34.4	34.4
95°	67.8	60.7	51.6	45.5	41.5	37.4	34.4	33.4	32.4	32.4	31.4
97.5°	58.7	52.6	46.5	41.5	37.4	34.4	31.4	30.3	29.3	29.3	29.3
100°	49.6	45.5	40.5	36.4	33.4	31.4	28.3	27.3	26.3	26.3	26.3
102.5°	41.5	38.4	34.4	31.4	29.3	27.3	25.3	24.3	23.3	23.3	23.3
105°	36.4	33.4	31.4	28.3	26.3	24.3	23.3	21.2	20.2	20.2	20.2
107.5°	33.4	31.4	29.3	27.3	25.3	23.3	21.2	19.2	18.2	18.2	18.2
110°	32.4	30.3	28.3	26.3	24.3	22.3	21.2	18.2	17.2	17.2	17.2



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 CATALOG NUMBER: CRTK2-C013-D-U-T3-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	32.4	31.4	29.3	27.3	25.3	23.3	21.2	17.2	16.2	16.2	16.2
115°	34.4	32.4	30.3	28.3	26.3	24.3	22.3	17.2	16.2	16.2	16.2
117.5°	37.4	35.4	32.4	30.3	28.3	25.3	22.3	18.2	16.2	16.2	16.2
120°	42.5	39.4	36.4	33.4	30.3	27.3	23.3	18.2	15.2	16.2	16.2
122.5°	48.5	45.5	40.5	36.4	33.4	29.3	24.3	19.2	15.2	16.2	16.2
125°	56.6	52.6	46.5	41.5	36.4	31.4	25.3	19.2	15.2	16.2	17.2
127.5°	65.7	59.7	52.6	45.5	39.4	33.4	27.3	20.2	15.2	17.2	17.2
130°	75.9	68.8	59.7	50.6	43.5	35.4	28.3	20.2	16.2	16.2	16.2
132.5°	87.0	76.9	64.7	54.6	45.5	36.4	28.3	20.2	16.2	16.2	16.2
135°	95.1	82.9	69.8	57.7	47.5	37.4	29.3	20.2	15.2	15.2	15.2
137.5°	102.2	88.0	73.8	59.7	48.5	37.4	28.3	19.2	15.2	14.2	14.2
140°	106.2	90.0	73.8	59.7	47.5	36.4	26.3	18.2	13.1	13.1	13.1
142.5°	106.2	89.0	72.8	57.7	44.5	34.4	25.3	16.2	12.1	12.1	12.1
145°	102.2	85.0	68.8	54.6	41.5	31.4	22.3	15.2	11.1	11.1	11.1
147.5°	95.1	77.9	62.7	49.6	36.4	27.3	19.2	12.1	9.1	9.1	9.1
150°	85.0	68.8	54.6	42.5	31.4	22.3	16.2	10.1	7.1	7.1	7.1
152.5°	70.8	57.7	44.5	35.4	25.3	18.2	12.1	8.1	6.1	6.1	6.1
155°	55.6	45.5	35.4	27.3	19.2	13.1	9.1	6.1	4.0	4.0	4.0
157.5°	42.5	34.4	26.3	20.2	14.2	10.1	7.1	4.0	3.0	3.0	3.0
160°	29.3	23.3	18.2	14.2	9.1	7.1	5.1	3.0	2.0	2.0	2.0
162.5°	19.2	15.2	11.1	8.1	6.1	4.0	3.0	2.0	1.0	1.0	1.0
165°	9.1	7.1	6.1	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
167.5°	3.0	2.0	2.0	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)