

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: P691113

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691113
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-D-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: 2245.9 lumens
Efficiency: N/A
Efficacy: 110.1 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): 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



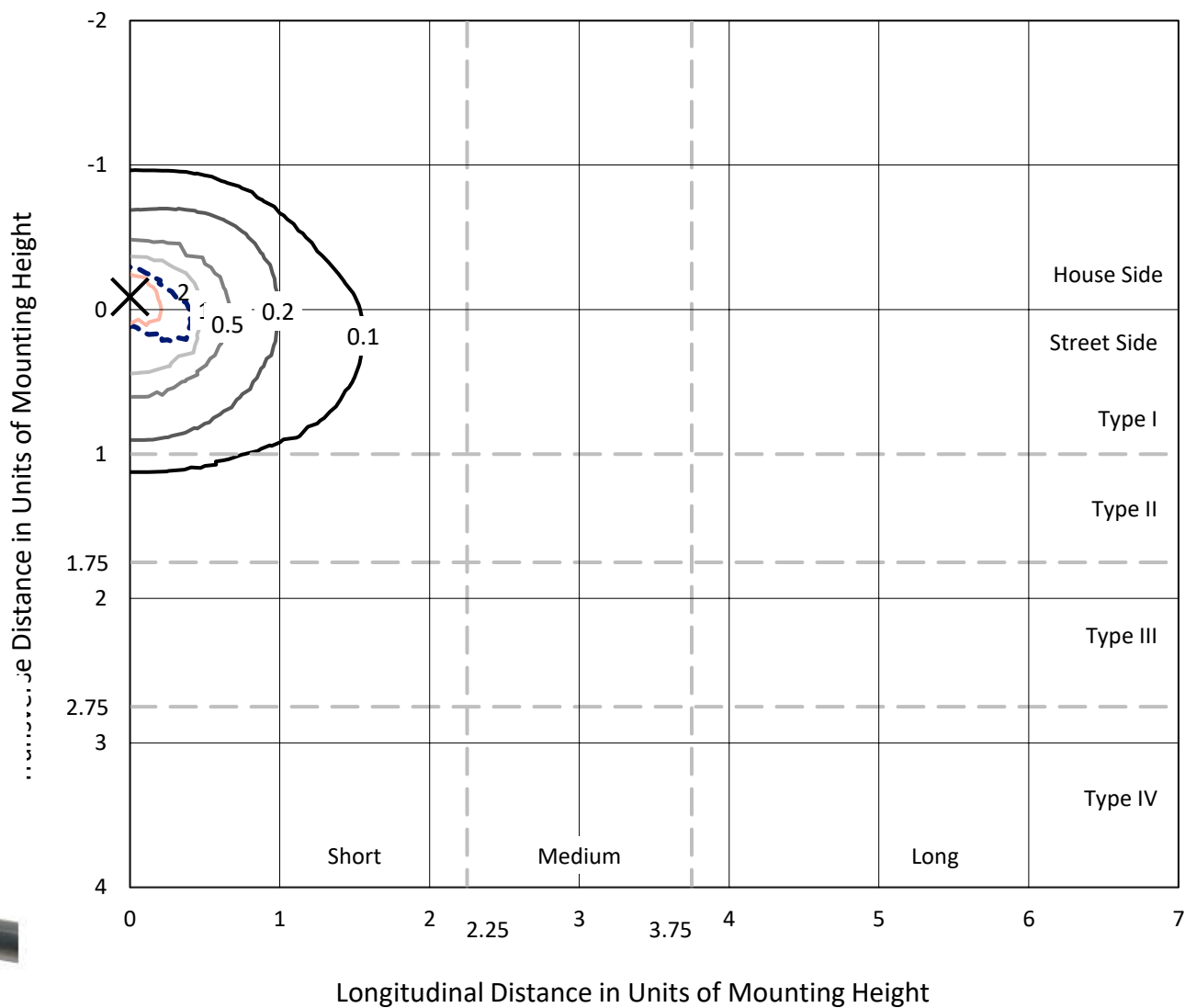
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

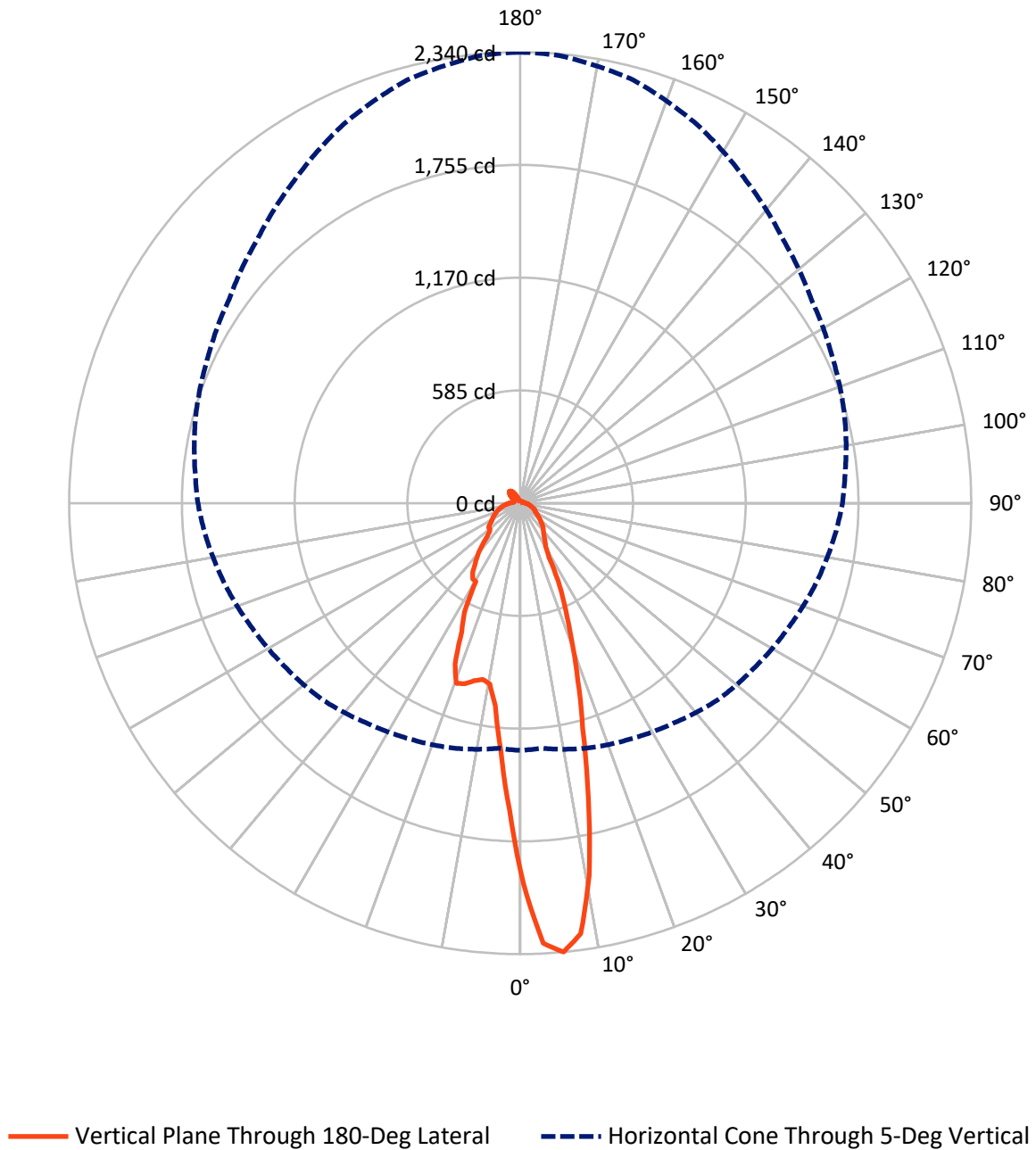


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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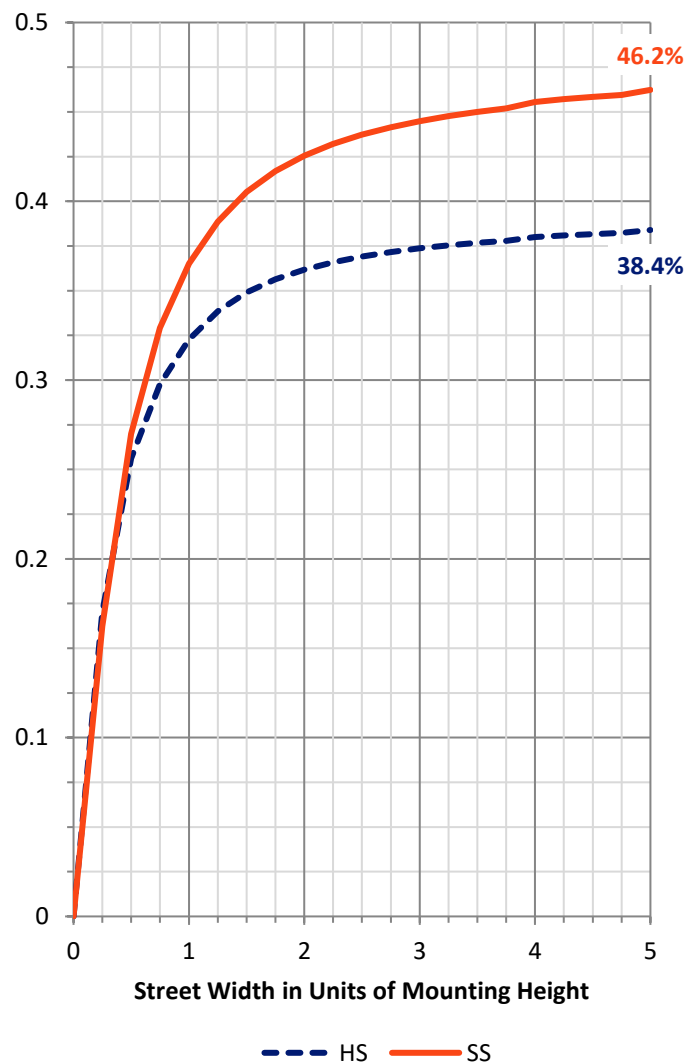
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	885.1	103.9	989.0
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	1063.7	193.1	1256.9
	% Fixture	47.4	8.6	56.0
Total	Lumens	1948.8	297.0	2245.9
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	6.8
10°-20°	324.3	14.4
20°-30°	352.9	15.7
30°-40°	258.4	11.5
40°-50°	217.2	9.7
50°-60°	220.6	9.8
60°-70°	187.5	8.3
70°-80°	139.9	6.2
80°-90°	95.2	4.2
90°-100°	57.2	2.5
100°-110°	32.8	1.5
110°-120°	30.2	1.3
120°-130°	43.8	2.0
130°-140°	60.3	2.7
140°-150°	49.9	2.2
150°-160°	20.3	0.9
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-90°	1948.8	86.8
0°-180°	2245.9	100.0

Coefficient of Utilization



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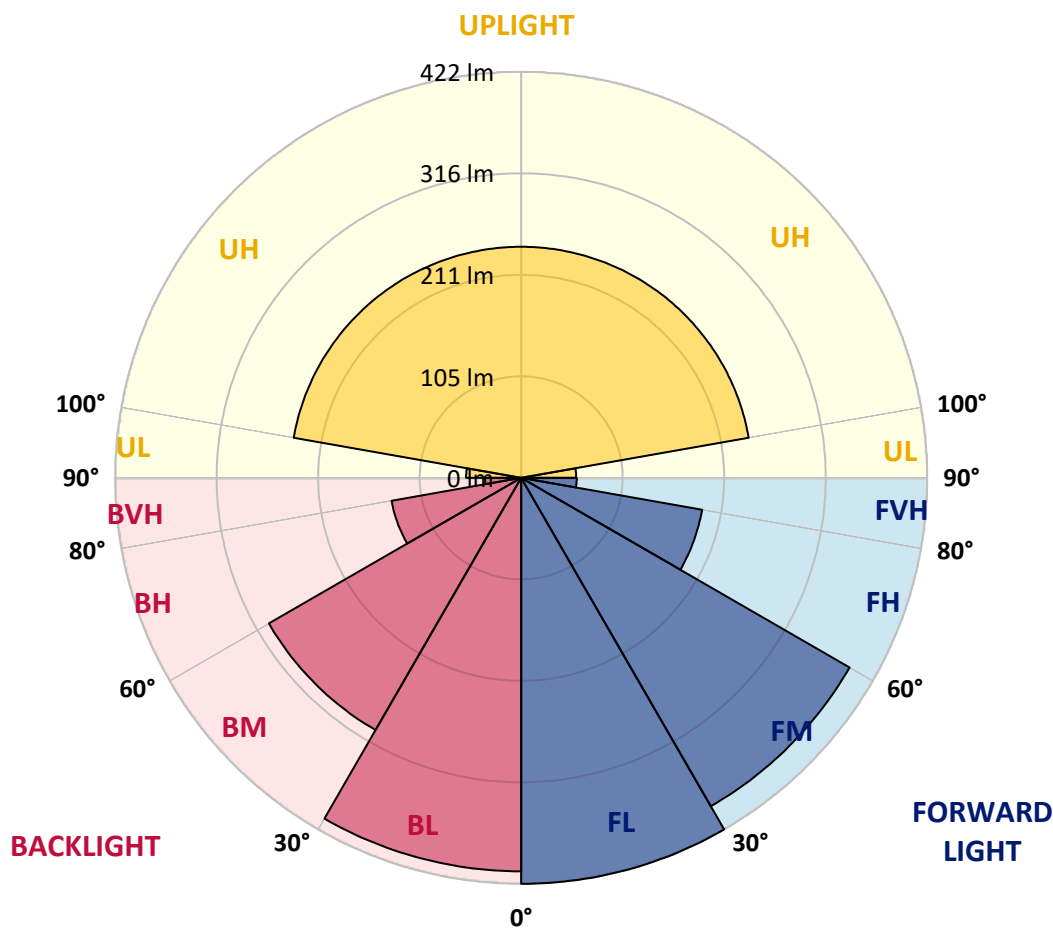
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	421.5	18.8			
FM	(30°-60°)	393.8	17.5			
FH	(60°-80°)	190.8	8.5			G0/660
FVH	(80°-90°)	57.7	2.6			G1/100
BL	(0°-30°)	408.5	18.2	B1/500		
BM	(30°-60°)	302.4	13.5	B1/1000		
BH	(60°-80°)	136.6	6.1	B1/500		G1/500
BVH	(80°-90°)	37.6	1.7			G1/100
UL	(90°-100°)	57.2	2.5		U3/500	
UH	(100°-180°)	239.9	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°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1592.3	1589.3	1611.3	1616.3	1618.3	1641.3	1672.3	1693.3	1731.3	1768.4	1783.4
5°	1282.3	1276.3	1316.3	1350.3	1391.3	1445.3	1485.3	1533.3	1590.3	1645.3	1671.3
7.5°	1057.2	1065.2	1122.2	1192.2	1258.3	1322.3	1371.3	1412.3	1445.3	1480.3	1487.3
10°	951.2	958.2	1014.2	1081.2	1142.2	1207.2	1249.3	1284.3	1305.3	1331.3	1340.3
12.5°	934.2	939.2	977.2	1024.2	1070.2	1129.2	1182.2	1221.2	1245.3	1266.3	1268.3
15°	951.2	953.2	976.2	1007.2	1047.2	1096.2	1157.2	1201.2	1228.2	1237.2	1235.2
17.5°	979.2	979.2	990.2	1016.2	1054.2	1101.2	1159.2	1204.2	1232.2	1236.2	1228.2
20°	991.2	993.2	1000.2	1029.2	1063.2	1106.2	1164.2	1202.2	1224.2	1213.2	1199.2
22.5°	901.2	897.2	916.2	977.2	1053.2	1130.2	1185.2	1228.2	1240.2	1203.2	1173.2
25°	729.1	731.1	743.1	773.2	832.2	903.2	1025.2	1156.2	1247.3	1233.2	1188.2
27.5°	636.1	630.1	633.1	638.1	630.1	615.1	629.1	626.1	624.1	660.1	664.1
30°	467.1	468.1	473.1	482.1	501.1	529.1	559.1	576.1	591.1	619.1	615.1
32.5°	464.1	465.1	468.1	476.1	486.1	505.1	524.1	531.1	547.1	570.1	563.1
35°	434.1	431.1	439.1	446.1	449.1	457.1	472.1	482.1	492.1	508.1	504.1
37.5°	385.1	386.1	402.1	413.1	416.1	427.1	441.1	449.1	460.1	474.1	467.1
40°	343.1	344.1	363.1	375.1	382.1	397.1	418.1	428.1	446.1	457.1	449.1
42.5°	295.1	299.1	312.1	326.1	330.1	339.1	353.1	366.1	389.1	404.1	399.1
45°	246.0	248.0	257.1	271.1	277.1	287.1	300.1	312.1	330.1	342.1	341.1
47.5°	217.0	219.0	227.0	239.0	251.1	264.1	278.1	290.1	307.1	317.1	313.1
50°	205.0	207.0	217.0	231.0	246.0	263.1	280.1	293.1	309.1	315.1	310.1
52.5°	207.0	207.0	221.0	239.0	260.1	283.1	304.1	320.1	333.1	337.1	326.1
55°	196.0	199.0	214.0	239.0	271.1	307.1	343.1	377.1	396.1	392.1	371.1
57.5°	179.0	182.0	193.0	220.0	254.1	297.1	348.1	390.1	413.1	416.1	395.1
60°	169.0	171.0	181.0	202.0	232.0	267.1	313.1	347.1	373.1	381.1	366.1
62.5°	160.0	162.0	170.0	186.0	208.0	235.0	261.1	283.1	304.1	312.1	306.1
65°	150.0	151.0	159.0	173.0	191.0	214.0	236.0	252.1	269.1	274.1	267.1
67.5°	140.0	141.0	148.0	161.0	178.0	199.0	216.0	234.0	251.1	255.1	250.1
70°	131.0	132.0	138.0	150.0	165.0	185.0	201.0	213.0	230.0	234.0	228.0
72.5°	122.0	123.0	129.0	140.0	154.0	172.0	186.0	198.0	212.0	213.0	208.0
75°	113.0	114.0	119.0	129.0	141.0	159.0	172.0	182.0	194.0	194.0	188.0
77.5°	103.0	105.0	109.0	118.0	129.0	146.0	158.0	168.0	178.0	177.0	171.0
80°	94.0	95.0	99.0	107.0	117.0	133.0	145.0	153.0	162.0	161.0	156.0
82.5°	84.0	85.0	88.0	96.0	105.0	120.0	132.0	140.0	148.0	146.0	141.0
85°	74.0	75.0	79.0	85.0	94.0	108.0	119.0	127.0	133.0	131.0	127.0
87.5°	66.0	66.0	69.0	75.0	83.0	96.0	106.0	114.0	119.0	118.0	114.0
90°	57.0	58.0	60.0	65.0	72.0	83.0	93.0	100.0	105.0	103.0	99.0
92.5°	50.0	50.0	52.0	57.0	63.0	73.0	82.0	88.0	92.0	91.0	88.0
95°	43.0	44.0	45.0	49.0	54.0	62.0	70.0	76.0	80.0	79.0	77.0
97.5°	38.0	39.0	40.0	42.0	47.0	52.0	59.0	64.0	68.0	67.0	65.0
100°	35.0	35.0	35.0	37.0	40.0	44.0	49.0	53.0	55.0	56.0	54.0
102.5°	32.0	32.0	33.0	33.0	35.0	37.0	40.0	43.0	44.0	44.0	44.0
105°	31.0	31.0	32.0	32.0	33.0	34.0	36.0	37.0	38.0	38.0	37.0
107.5°	31.0	31.0	31.0	31.0	32.0	33.0	34.0	35.0	35.0	35.0	34.0
110°	32.0	32.0	32.0	32.0	32.0	33.0	33.0	34.0	34.0	33.0	33.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	33.0	33.0	33.0	33.0	33.0	34.0	34.0	34.0	34.0	33.0	33.0
115°	35.0	35.0	35.0	36.0	36.0	36.0	36.0	36.0	36.0	35.0	34.0
117.5°	39.0	39.0	39.0	39.0	40.0	40.0	40.0	40.0	40.0	38.0	38.0
120°	44.0	43.0	44.0	45.0	46.0	46.0	46.0	46.0	46.0	44.0	43.0
122.5°	49.0	49.0	50.0	52.0	54.0	55.0	54.0	54.0	54.0	51.0	50.0
125°	55.0	55.0	58.0	62.0	65.0	66.0	65.0	65.0	65.0	62.0	60.0
127.5°	62.0	62.0	66.0	72.0	77.0	80.0	79.0	79.0	79.0	74.0	71.0
130°	69.0	69.0	75.0	83.0	91.0	93.0	94.0	95.0	95.0	89.0	85.0
132.5°	74.0	75.0	82.0	93.0	103.0	106.0	109.0	110.0	110.0	103.0	97.0
135°	79.0	80.0	89.0	102.0	113.0	120.0	123.0	124.0	125.0	117.0	110.0
137.5°	82.0	83.0	93.0	108.0	119.0	128.0	135.0	137.0	137.0	128.0	119.0
140°	82.0	83.0	94.0	108.0	120.0	131.0	139.0	143.0	143.0	134.0	126.0
142.5°	80.0	82.0	92.0	106.0	118.0	129.0	138.0	142.0	142.0	134.0	126.0
145°	76.0	77.0	87.0	99.0	111.0	124.0	134.0	138.0	138.0	130.0	122.0
147.5°	69.0	70.0	78.0	89.0	101.0	114.0	124.0	129.0	128.0	121.0	114.0
150°	60.0	60.0	67.0	76.0	88.0	100.0	110.0	115.0	115.0	108.0	102.0
152.5°	49.0	49.0	54.0	61.0	71.0	83.0	91.0	96.0	96.0	91.0	86.0
155°	38.0	38.0	42.0	47.0	55.0	64.0	70.0	75.0	75.0	71.0	67.0
157.5°	27.0	27.0	31.0	35.0	41.0	48.0	53.0	56.0	57.0	53.0	51.0
160°	18.0	18.0	20.0	23.0	28.0	33.0	36.0	39.0	40.0	37.0	36.0
162.5°	10.0	10.0	11.0	14.0	17.0	20.0	23.0	25.0	25.0	24.0	23.0
165°	3.0	3.0	4.0	5.0	7.0	9.0	10.0	11.0	12.0	12.0	11.0
167.5°	0.0	0.0	1.0	1.0	1.0	1.0	2.0	2.0	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	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°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1814.4	1870.4	1931.4	1990.4	2062.4	2137.4	2206.4	2253.5	2278.5	2286.5	2286.5
5°	1691.3	1742.4	1787.4	1843.4	1930.4	2043.4	2168.4	2272.5	2331.5	2338.5	2339.5
7.5°	1499.3	1541.3	1588.3	1638.3	1715.3	1816.4	1981.4	2149.4	2245.5	2263.5	2256.5
10°	1342.3	1368.3	1396.3	1415.3	1469.3	1544.3	1656.3	1821.4	1939.4	1953.4	1963.4
12.5°	1269.3	1273.3	1265.3	1269.3	1287.3	1322.3	1377.3	1472.3	1549.3	1562.3	1569.3
15°	1232.2	1212.2	1180.2	1150.2	1134.2	1137.2	1149.2	1188.2	1201.2	1223.2	1213.2
17.5°	1215.2	1170.2	1120.2	1062.2	1026.2	989.2	969.2	962.2	957.2	958.2	967.2
20°	1172.2	1121.2	1041.2	965.2	907.2	856.2	813.2	782.2	765.2	757.2	763.2
22.5°	1127.2	1048.2	954.2	872.2	789.2	724.1	675.1	630.1	605.1	612.1	604.1
25°	1128.2	1010.2	898.2	790.2	712.1	626.1	548.1	501.1	460.1	468.1	479.1
27.5°	711.1	680.1	600.1	537.1	459.1	416.1	377.1	344.1	321.1	322.1	319.1
30°	603.1	571.1	531.1	481.1	422.1	372.1	327.1	289.1	267.1	261.1	260.1
32.5°	557.1	530.1	493.1	444.1	390.1	340.1	295.1	260.1	238.0	237.0	237.0
35°	496.1	471.1	440.1	398.1	352.1	306.1	264.1	234.0	216.0	216.0	215.0
37.5°	458.1	436.1	406.1	367.1	326.1	280.1	243.0	216.0	197.0	196.0	197.0
40°	438.1	415.1	386.1	349.1	308.1	264.1	229.0	201.0	187.0	186.0	185.0
42.5°	398.1	380.1	355.1	321.1	285.1	246.0	213.0	188.0	176.0	175.0	176.0
45°	338.1	325.1	308.1	283.1	253.1	220.0	191.0	172.0	160.0	160.0	160.0
47.5°	310.1	298.1	279.1	254.1	228.0	197.0	173.0	157.0	146.0	146.0	146.0
50°	303.1	288.1	263.1	235.0	207.0	180.0	158.0	142.0	134.0	133.0	134.0
52.5°	313.1	290.1	256.1	223.0	192.0	166.0	145.0	130.0	122.0	122.0	122.0
55°	349.1	307.1	262.1	220.0	183.0	154.0	133.0	118.0	110.0	109.0	110.0
57.5°	373.1	320.1	264.1	217.0	177.0	146.0	123.0	107.0	99.0	98.0	99.0
60°	352.1	309.1	255.1	209.0	172.0	140.0	116.0	100.0	92.0	91.0	91.0
62.5°	292.1	267.1	228.0	189.0	159.0	131.0	109.0	94.0	86.0	85.0	86.0
65°	259.1	237.0	203.0	172.0	146.0	122.0	103.0	90.0	82.0	82.0	82.0
67.5°	241.0	221.0	189.0	159.0	135.0	113.0	95.0	83.0	76.0	76.0	76.0
70°	220.0	200.0	171.0	144.0	122.0	103.0	87.0	75.0	69.0	68.0	69.0
72.5°	202.0	182.0	155.0	130.0	110.0	93.0	79.0	68.0	63.0	62.0	63.0
75°	182.0	163.0	137.0	115.0	98.0	83.0	71.0	61.0	57.0	56.0	56.0
77.5°	165.0	147.0	123.0	103.0	88.0	74.0	63.0	56.0	52.0	51.0	51.0
80°	150.0	133.0	110.0	92.0	78.0	66.0	57.0	50.0	46.0	46.0	46.0
82.5°	134.0	119.0	98.0	81.0	69.0	59.0	50.0	44.0	41.0	41.0	41.0
85°	121.0	106.0	86.0	72.0	60.0	51.0	44.0	39.0	36.0	36.0	36.0
87.5°	107.0	94.0	76.0	63.0	53.0	45.0	38.0	33.0	32.0	31.0	31.0
90°	93.0	81.0	65.0	54.0	45.0	38.0	32.0	28.0	27.0	26.0	26.0
92.5°	83.0	72.0	59.0	49.0	41.0	34.0	30.0	26.0	25.0	25.0	24.0
95°	72.0	63.0	52.0	44.0	37.0	32.0	28.0	25.0	24.0	24.0	23.0
97.5°	62.0	54.0	46.0	40.0	34.0	30.0	26.0	24.0	22.0	22.0	22.0
100°	52.0	46.0	40.0	34.0	31.0	27.0	24.0	22.0	21.0	20.0	20.0
102.5°	42.0	38.0	33.0	30.0	26.0	23.0	21.0	19.0	18.0	18.0	18.0
105°	36.0	33.0	30.0	27.0	24.0	21.0	19.0	17.0	16.0	16.0	16.0
107.5°	33.0	31.0	28.0	25.0	23.0	20.0	18.0	15.0	14.0	15.0	15.0
110°	32.0	30.0	27.0	25.0	22.0	20.0	18.0	14.0	13.0	14.0	14.0

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CATALOG NUMBER: CRTK2-C013-D-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	32.0	30.0	28.0	25.0	23.0	20.0	18.0	14.0	13.0	13.0	13.0
115°	33.0	32.0	29.0	27.0	24.0	21.0	18.0	14.0	13.0	13.0	13.0
117.5°	37.0	35.0	32.0	29.0	26.0	22.0	19.0	14.0	13.0	13.0	13.0
120°	41.0	39.0	36.0	32.0	28.0	24.0	20.0	14.0	12.0	13.0	13.0
122.5°	48.0	45.0	41.0	36.0	31.0	26.0	20.0	15.0	11.0	13.0	13.0
125°	57.0	53.0	47.0	40.0	34.0	28.0	21.0	15.0	12.0	13.0	13.0
127.5°	67.0	62.0	54.0	45.0	37.0	29.0	22.0	15.0	12.0	12.0	13.0
130°	80.0	72.0	61.0	50.0	40.0	31.0	22.0	15.0	12.0	12.0	12.0
132.5°	91.0	81.0	67.0	54.0	42.0	32.0	22.0	15.0	11.0	11.0	11.0
135°	102.0	89.0	72.0	57.0	44.0	32.0	22.0	14.0	11.0	11.0	11.0
137.5°	111.0	94.0	76.0	58.0	44.0	31.0	21.0	13.0	10.0	10.0	10.0
140°	116.0	97.0	77.0	58.0	42.0	30.0	19.0	12.0	9.0	9.0	9.0
142.5°	116.0	96.0	76.0	56.0	40.0	28.0	17.0	10.0	8.0	8.0	8.0
145°	112.0	92.0	72.0	53.0	37.0	25.0	15.0	9.0	6.0	6.0	7.0
147.5°	105.0	85.0	66.0	48.0	33.0	21.0	13.0	7.0	5.0	5.0	5.0
150°	93.0	75.0	57.0	42.0	28.0	18.0	11.0	6.0	4.0	4.0	4.0
152.5°	78.0	62.0	48.0	35.0	23.0	14.0	8.0	5.0	3.0	3.0	3.0
155°	62.0	49.0	38.0	27.0	17.0	11.0	6.0	4.0	3.0	3.0	3.0
157.5°	46.0	37.0	28.0	20.0	13.0	8.0	5.0	3.0	2.0	2.0	2.0
160°	32.0	26.0	19.0	13.0	8.0	5.0	3.0	2.0	1.0	1.0	1.0
162.5°	21.0	16.0	12.0	8.0	5.0	3.0	2.0	1.0	1.0	1.0	1.0
165°	10.0	8.0	6.0	4.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0
167.5°	3.0	2.0	1.0	1.0	1.0	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)