

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: P691176

Luminaire Tested: **CRTK2-C013-D-U-T5R-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-D-U-T5R-7040-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2658.1 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - Short
BUG Rating: B2 - 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



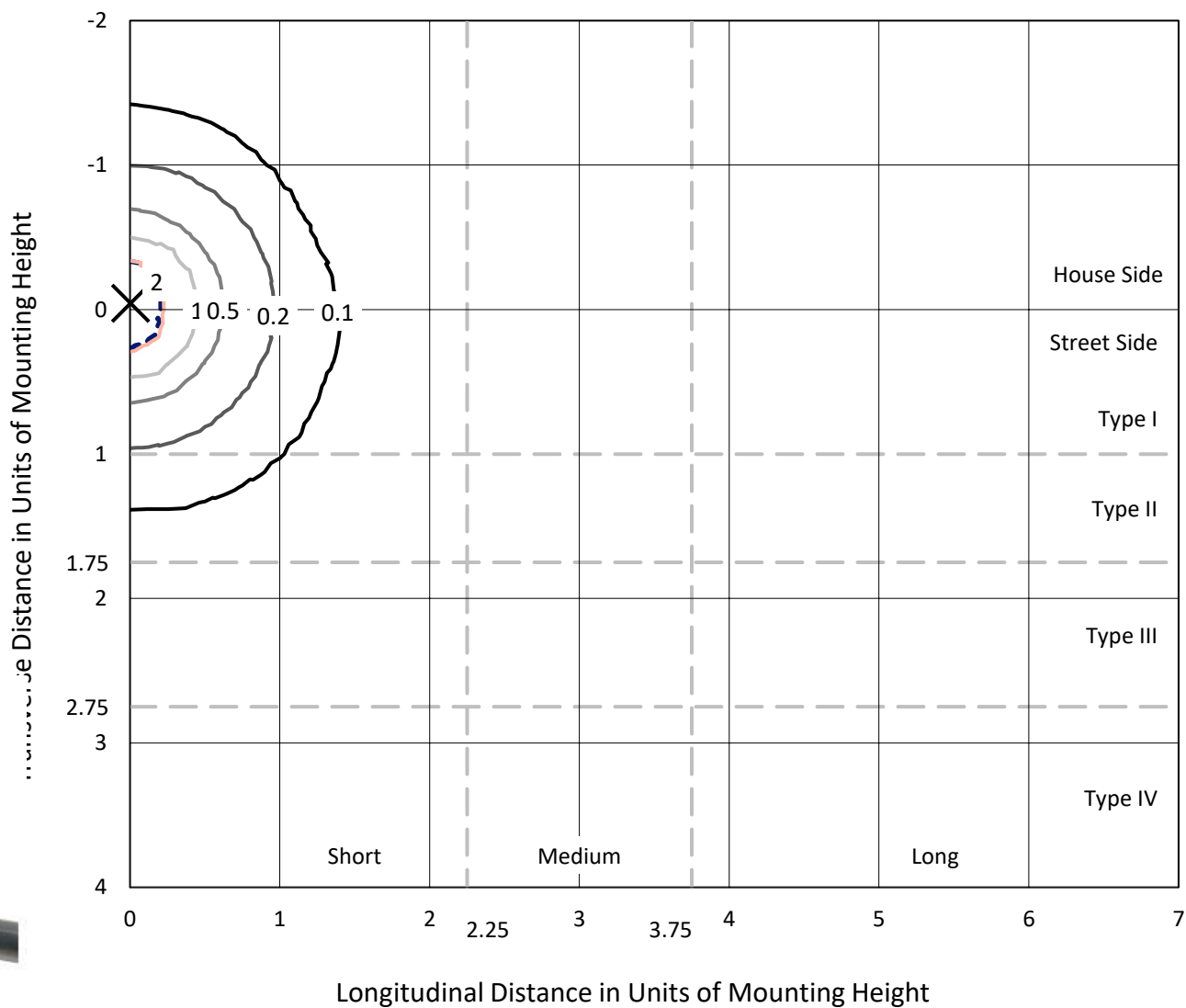
REPORT NUMBER: P691176

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7040-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

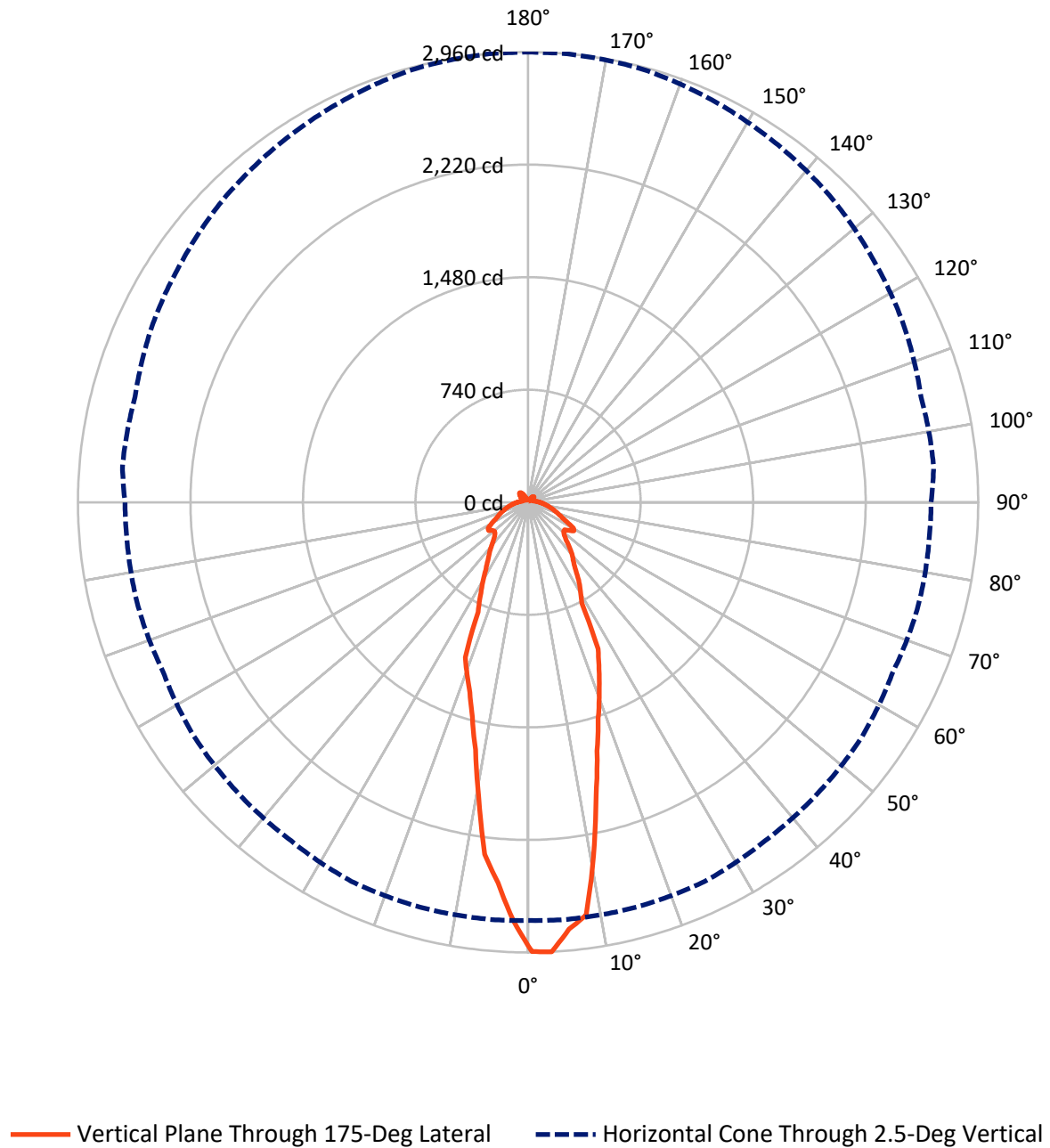


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

REPORT NUMBER: P691176

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7040-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P691176

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7040-RMARROA5

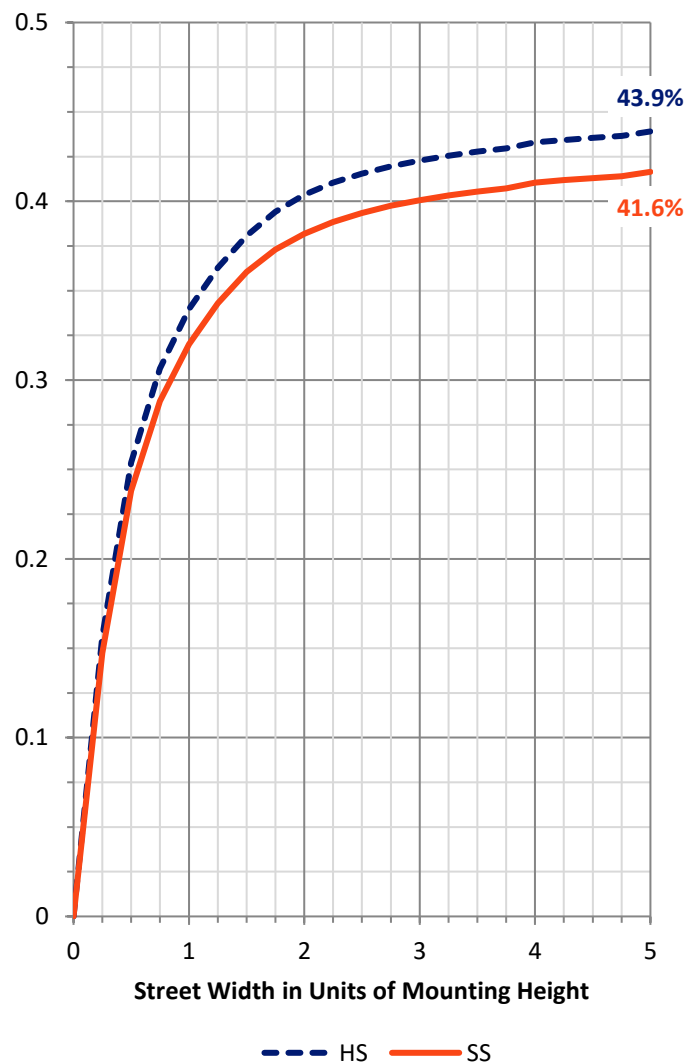
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1203.0	158.9	1361.9
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	1133.0	163.1	1296.2
	% Fixture	42.6	6.1	48.8
Total	Lumens	2336.1	322.0	2658.1
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	8.3
10°-20°	386.0	14.5
20°-30°	382.7	14.4
30°-40°	295.1	11.1
40°-50°	253.0	9.5
50°-60°	282.9	10.6
60°-70°	242.4	9.1
70°-80°	166.8	6.3
80°-90°	107.4	4.0
90°-100°	64.3	2.4
100°-110°	38.3	1.4
110°-120°	35.4	1.3
120°-130°	50.6	1.9
130°-140°	65.3	2.5
140°-150°	48.4	1.8
150°-160°	17.7	0.7
160°-170°	2.1	0.1
170°-180°	0.0	0.0
0°-90°	2336.1	87.9
0°-180°	2658.1	100.0

Coefficient of Utilization



REPORT NUMBER: P691176

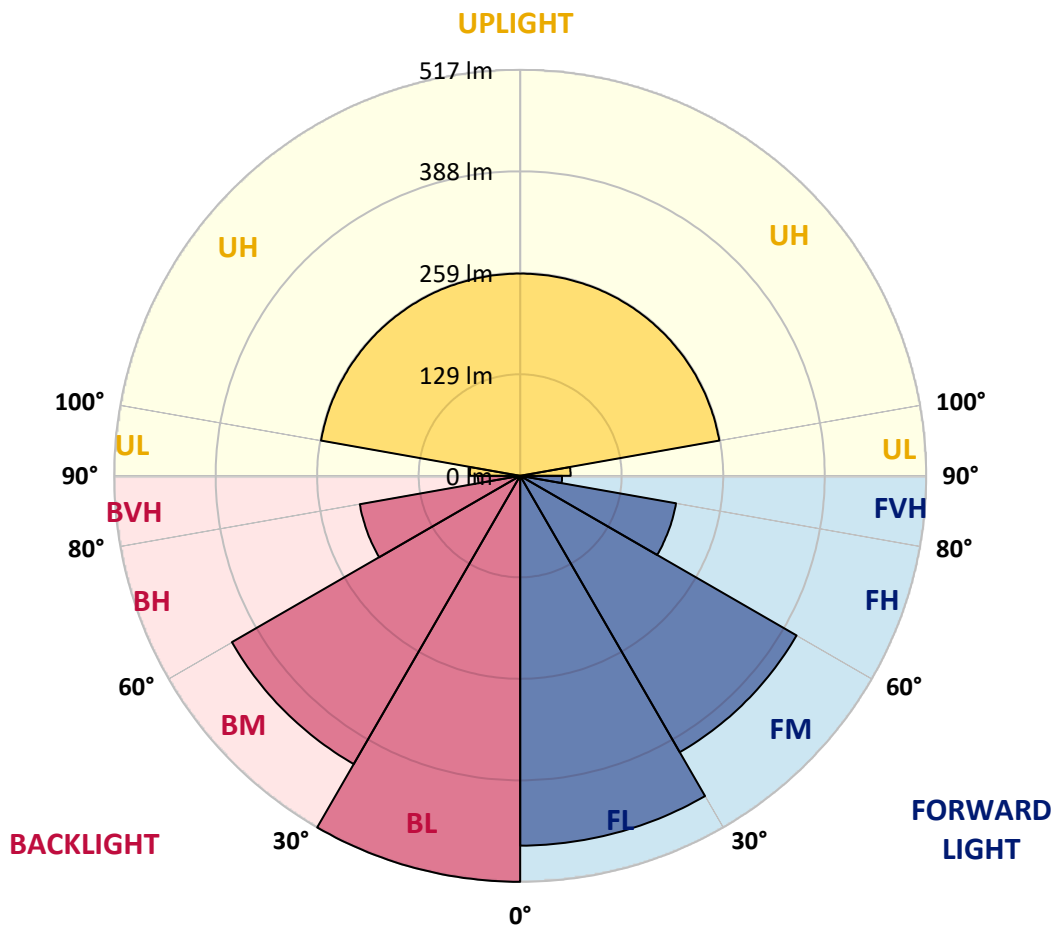
CATALOG NUMBER: CRTK2-C013-D-U-T5R-7040-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	471.2	17.7			
FM	(30°-60°)	406.7	15.3			
FH	(60°-80°)	201.6	7.6			G0/660
FVH	(80°-90°)	53.5	2.0			G1/100
BL	(0°-30°)	517.4	19.5	B2/1000		
BM	(30°-60°)	424.2	16.0	B1/1000		
BH	(60°-80°)	207.5	7.8	B1/500		G0/660
BVH	(80°-90°)	53.8	2.0			G1/100
UL	(90°-100°)	64.3	2.4		U3/500	
UH	(100°-180°)	257.7	9.7		U3/500	

BUG Rating: B2-U3-G1

Type V Short



REPORT NUMBER: P691176

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7040-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8
2.5°	2749.8	2753.8	2754.8	2749.8	2716.8	2699.8	2681.9	2645.9	2653.9	2648.9	2649.9
5°	2493.9	2509.9	2484.9	2477.9	2427.9	2390.9	2354.9	2315.9	2306.9	2290.9	2296.9
7.5°	2323.9	2332.9	2291.9	2249.9	2169.9	2112.9	2052.9	1992.9	1947.9	1930.9	1937.9
10°	1934.9	1964.9	1923.9	1880.9	1804.9	1736.9	1673.9	1614.9	1573.9	1560.9	1562.9
12.5°	1644.9	1661.9	1626.9	1597.9	1512.9	1447.9	1389.9	1334.9	1301.9	1287.9	1287.9
15°	1452.9	1459.9	1432.9	1376.9	1312.9	1253.9	1204.9	1164.9	1137.9	1132.9	1134.9
17.5°	1307.9	1307.9	1280.9	1236.9	1187.9	1135.9	1101.9	1071.9	1059.9	1063.9	1064.9
20°	1198.9	1199.9	1175.9	1132.9	1090.9	1043.9	1015.9	994.9	987.9	994.9	995.9
22.5°	1095.9	1100.9	1074.9	1042.9	996.9	959.9	936.9	913.9	909.9	912.9	912.9
25°	793.0	793.0	784.0	759.0	769.0	773.0	800.0	858.0	846.0	857.0	856.0
27.5°	684.0	688.0	670.0	648.0	625.0	598.0	593.0	588.0	583.0	606.0	614.0
30°	604.0	606.0	591.0	576.0	557.0	542.0	538.0	538.0	533.0	551.0	550.0
32.5°	528.0	525.0	521.0	507.0	495.0	482.0	485.0	483.0	483.0	499.0	500.0
35°	468.0	467.0	464.0	454.0	442.0	432.0	435.0	437.0	436.0	446.0	446.0
37.5°	424.0	425.0	423.0	419.0	407.0	399.0	401.0	399.0	402.0	409.0	409.0
40°	381.0	381.0	382.0	381.0	373.0	370.0	376.0	373.0	380.0	385.0	383.0
42.5°	340.0	341.0	343.0	341.0	336.0	333.0	336.0	337.0	347.0	354.0	353.0
45°	314.0	314.0	315.0	314.0	310.0	307.0	307.0	304.0	311.0	315.0	314.0
47.5°	297.0	297.0	299.0	298.0	296.0	293.0	291.0	287.0	290.0	293.0	290.0
50°	291.0	291.0	295.0	295.0	294.0	291.0	288.0	283.0	284.0	286.0	282.0
52.5°	300.0	300.0	307.0	310.0	310.0	305.0	301.0	294.0	294.0	296.0	290.0
55°	319.0	319.0	330.0	336.0	337.0	337.0	332.0	325.0	326.0	330.0	324.0
57.5°	312.0	313.0	322.0	330.0	335.0	338.0	338.0	334.0	337.0	347.0	344.0
60°	279.0	281.0	287.0	294.0	303.0	306.0	306.0	305.0	310.0	322.0	322.0
62.5°	248.0	249.0	252.0	258.0	263.0	265.0	265.0	261.0	267.0	273.0	271.0
65°	224.0	223.0	229.0	234.0	237.0	240.0	237.0	233.0	236.0	240.0	239.0
67.5°	204.0	204.0	209.0	213.0	215.0	218.0	216.0	214.0	218.0	220.0	218.0
70°	185.0	186.0	190.0	193.0	195.0	198.0	195.0	194.0	198.0	200.0	199.0
72.5°	166.0	167.0	170.0	174.0	176.0	177.0	176.0	175.0	178.0	180.0	180.0
75°	149.0	150.0	152.0	156.0	156.0	158.0	157.0	156.0	159.0	161.0	161.0
77.5°	133.0	135.0	136.0	139.0	140.0	141.0	140.0	140.0	142.0	144.0	145.0
80°	119.0	120.0	121.0	124.0	124.0	125.0	124.0	124.0	126.0	129.0	129.0
82.5°	106.0	107.0	108.0	110.0	109.0	110.0	110.0	110.0	112.0	115.0	115.0
85°	93.0	95.0	95.0	97.0	97.0	97.0	97.0	98.0	99.0	102.0	102.0
87.5°	82.0	83.0	84.0	85.0	85.0	86.0	86.0	87.0	88.0	90.0	91.0
90°	71.0	72.0	73.0	73.0	73.0	74.0	74.0	75.0	76.0	78.0	79.0
92.5°	63.0	64.0	64.0	65.0	65.0	65.0	66.0	67.0	68.0	70.0	70.0
95°	56.0	57.0	57.0	57.0	57.0	58.0	58.0	59.0	60.0	62.0	62.0
97.5°	50.0	50.0	50.0	50.0	50.0	51.0	51.0	52.0	53.0	54.0	54.0
100°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	45.0	45.0	47.0	47.0
102.5°	39.0	39.0	38.0	38.0	38.0	37.0	37.0	38.0	38.0	39.0	39.0
105°	35.0	35.0	35.0	35.0	34.0	34.0	34.0	34.0	34.0	35.0	35.0
107.5°	34.0	34.0	33.0	33.0	33.0	32.0	32.0	32.0	32.0	33.0	33.0
110°	33.0	33.0	33.0	33.0	32.0	32.0	31.0	31.0	31.0	32.0	32.0

REPORT NUMBER: P691176

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	34.0	34.0	34.0	33.0	33.0	32.0	32.0	32.0	32.0	32.0	33.0
115°	36.0	35.0	35.0	35.0	35.0	34.0	33.0	33.0	34.0	34.0	34.0
117.5°	39.0	38.0	38.0	39.0	38.0	37.0	36.0	36.0	37.0	37.0	38.0
120°	43.0	42.0	43.0	43.0	43.0	42.0	41.0	40.0	41.0	42.0	42.0
122.5°	48.0	47.0	48.0	49.0	49.0	48.0	46.0	46.0	47.0	48.0	49.0
125°	54.0	54.0	55.0	56.0	57.0	55.0	54.0	53.0	55.0	56.0	56.0
127.5°	61.0	60.0	62.0	65.0	66.0	64.0	62.0	61.0	63.0	65.0	65.0
130°	68.0	67.0	70.0	73.0	75.0	73.0	71.0	70.0	72.0	74.0	74.0
132.5°	74.0	73.0	77.0	81.0	83.0	82.0	80.0	78.0	81.0	83.0	82.0
135°	79.0	79.0	84.0	88.0	90.0	89.0	87.0	85.0	89.0	91.0	89.0
137.5°	82.0	82.0	88.0	92.0	94.0	94.0	93.0	91.0	95.0	96.0	93.0
140°	82.0	83.0	88.0	92.0	93.0	94.0	94.0	93.0	97.0	97.0	94.0
142.5°	79.0	80.0	85.0	89.0	90.0	91.0	92.0	91.0	94.0	94.0	92.0
145°	74.0	75.0	80.0	84.0	84.0	85.0	87.0	86.0	88.0	89.0	87.0
147.5°	67.0	68.0	72.0	74.0	75.0	77.0	79.0	79.0	80.0	81.0	80.0
150°	58.0	58.0	61.0	63.0	64.0	66.0	68.0	69.0	69.0	70.0	69.0
152.5°	46.0	46.0	48.0	50.0	51.0	54.0	55.0	56.0	57.0	58.0	57.0
155°	35.0	35.0	36.0	37.0	38.0	41.0	42.0	43.0	44.0	45.0	44.0
157.5°	25.0	25.0	26.0	27.0	28.0	30.0	31.0	32.0	32.0	33.0	33.0
160°	16.0	17.0	17.0	18.0	18.0	20.0	21.0	21.0	22.0	23.0	23.0
162.5°	8.0	9.0	9.0	10.0	11.0	12.0	13.0	13.0	14.0	14.0	14.0
165°	2.0	3.0	3.0	4.0	4.0	5.0	6.0	6.0	7.0	7.0	7.0
167.5°	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
170°	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
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

REPORT NUMBER: P691176

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8	2953.8
2.5°	2676.9	2674.9	2729.8	2773.8	2825.8	2866.8	2906.8	2944.8	2959.8	2958.8	2959.8
5°	2323.9	2358.9	2430.9	2501.9	2585.9	2664.9	2738.8	2787.8	2818.8	2818.8	2821.8
7.5°	1969.9	2025.9	2114.9	2227.9	2353.9	2456.9	2581.9	2669.9	2739.8	2737.8	2750.8
10°	1590.9	1634.9	1723.9	1844.9	1983.9	2102.9	2211.9	2293.9	2361.9	2357.9	2374.9
12.5°	1306.9	1337.9	1414.9	1524.9	1651.9	1766.9	1873.9	1937.9	1985.9	1984.9	1993.9
15°	1139.9	1171.9	1221.9	1297.9	1402.9	1504.9	1611.9	1669.9	1696.9	1693.9	1708.9
17.5°	1071.9	1084.9	1115.9	1166.9	1242.9	1325.9	1410.9	1460.9	1491.9	1487.9	1498.9
20°	998.9	1010.9	1031.9	1069.9	1123.9	1186.9	1258.9	1313.9	1336.9	1335.9	1342.9
22.5°	914.9	920.9	943.9	973.9	1012.9	1063.9	1118.9	1168.9	1191.9	1190.9	1197.9
25°	857.0	867.0	881.0	898.9	925.9	965.9	1011.9	1046.9	1067.9	1065.9	1074.9
27.5°	626.0	636.0	643.0	654.0	655.0	688.0	704.0	733.0	752.0	751.0	757.0
30°	550.0	552.0	558.0	573.0	582.0	608.0	640.0	662.0	678.0	684.0	688.0
32.5°	502.0	508.0	515.0	522.0	533.0	549.0	574.0	594.0	611.0	614.0	621.0
35°	447.0	451.0	456.0	463.0	470.0	483.0	502.0	518.0	531.0	536.0	540.0
37.5°	408.0	409.0	414.0	422.0	428.0	439.0	456.0	468.0	481.0	482.0	486.0
40°	382.0	383.0	388.0	395.0	402.0	409.0	424.0	435.0	444.0	445.0	448.0
42.5°	352.0	355.0	357.0	360.0	365.0	371.0	384.0	390.0	396.0	397.0	401.0
45°	311.0	312.0	314.0	317.0	323.0	329.0	338.0	345.0	349.0	349.0	348.0
47.5°	288.0	289.0	289.0	293.0	298.0	304.0	312.0	318.0	320.0	320.0	320.0
50°	280.0	280.0	278.0	281.0	286.0	290.0	298.0	303.0	304.0	305.0	306.0
52.5°	286.0	284.0	278.0	281.0	286.0	290.0	298.0	300.0	300.0	302.0	303.0
55°	319.0	316.0	304.0	306.0	312.0	317.0	323.0	324.0	326.0	329.0	328.0
57.5°	340.0	342.0	328.0	331.0	342.0	346.0	353.0	352.0	356.0	360.0	361.0
60°	320.0	326.0	315.0	319.0	332.0	334.0	341.0	337.0	343.0	343.0	343.0
62.5°	272.0	274.0	268.0	274.0	286.0	286.0	291.0	288.0	290.0	288.0	289.0
65°	238.0	237.0	230.0	238.0	242.0	244.0	248.0	249.0	249.0	247.0	247.0
67.5°	217.0	215.0	209.0	211.0	215.0	216.0	222.0	223.0	222.0	222.0	223.0
70°	198.0	195.0	189.0	190.0	193.0	194.0	199.0	201.0	200.0	199.0	200.0
72.5°	179.0	176.0	170.0	170.0	173.0	175.0	179.0	181.0	179.0	179.0	180.0
75°	161.0	158.0	152.0	152.0	154.0	155.0	160.0	161.0	160.0	159.0	160.0
77.5°	145.0	143.0	137.0	137.0	138.0	139.0	142.0	143.0	142.0	141.0	142.0
80°	130.0	127.0	123.0	122.0	123.0	123.0	126.0	127.0	125.0	125.0	126.0
82.5°	116.0	113.0	109.0	109.0	108.0	109.0	111.0	112.0	111.0	110.0	111.0
85°	103.0	101.0	97.0	96.0	96.0	96.0	98.0	98.0	97.0	97.0	97.0
87.5°	91.0	89.0	85.0	85.0	84.0	85.0	86.0	86.0	85.0	85.0	85.0
90°	79.0	77.0	74.0	74.0	73.0	74.0	75.0	75.0	74.0	74.0	74.0
92.5°	70.0	69.0	66.0	66.0	65.0	66.0	66.0	66.0	65.0	65.0	65.0
95°	62.0	61.0	59.0	58.0	58.0	58.0	58.0	58.0	57.0	57.0	57.0
97.5°	54.0	53.0	51.0	51.0	50.0	51.0	51.0	51.0	50.0	50.0	50.0
100°	47.0	46.0	45.0	45.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
102.5°	39.0	39.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
105°	35.0	35.0	35.0	35.0	36.0	36.0	36.0	35.0	35.0	35.0	35.0
107.5°	33.0	33.0	33.0	34.0	34.0	34.0	35.0	33.0	32.0	32.0	32.0
110°	32.0	32.0	33.0	33.0	34.0	34.0	35.0	31.0	30.0	30.0	30.0

REPORT NUMBER: P691176

CATALOG NUMBER: CRTK2-C013-D-U-T5R-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	33.0	33.0	33.0	34.0	35.0	35.0	36.0	31.0	30.0	30.0	30.0
115°	35.0	35.0	35.0	36.0	37.0	38.0	38.0	33.0	31.0	31.0	32.0
117.5°	38.0	38.0	38.0	39.0	41.0	41.0	41.0	35.0	34.0	34.0	34.0
120°	42.0	43.0	43.0	44.0	46.0	47.0	45.0	40.0	37.0	37.0	37.0
122.5°	48.0	49.0	50.0	51.0	54.0	54.0	51.0	46.0	41.0	41.0	42.0
125°	56.0	57.0	58.0	60.0	63.0	63.0	59.0	52.0	46.0	46.0	47.0
127.5°	64.0	66.0	67.0	70.0	74.0	74.0	69.0	60.0	50.0	50.0	51.0
130°	73.0	75.0	77.0	81.0	86.0	84.0	80.0	68.0	53.0	53.0	53.0
132.5°	81.0	84.0	85.0	91.0	96.0	94.0	89.0	73.0	53.0	53.0	52.0
135°	87.0	89.0	90.0	96.0	101.0	98.0	92.0	75.0	50.0	50.0	50.0
137.5°	91.0	93.0	94.0	98.0	102.0	97.0	89.0	71.0	49.0	49.0	48.0
140°	93.0	93.0	93.0	96.0	98.0	92.0	82.0	64.0	47.0	47.0	47.0
142.5°	91.0	90.0	89.0	91.0	92.0	85.0	76.0	57.0	43.0	43.0	43.0
145°	86.0	84.0	83.0	84.0	84.0	76.0	66.0	49.0	37.0	37.0	37.0
147.5°	79.0	76.0	74.0	74.0	73.0	65.0	56.0	41.0	30.0	30.0	30.0
150°	68.0	65.0	63.0	63.0	60.0	53.0	45.0	32.0	25.0	25.0	25.0
152.5°	56.0	53.0	51.0	51.0	48.0	41.0	34.0	24.0	19.0	19.0	19.0
155°	44.0	41.0	39.0	38.0	36.0	31.0	25.0	18.0	14.0	14.0	14.0
157.5°	33.0	31.0	29.0	28.0	26.0	23.0	18.0	13.0	9.0	10.0	10.0
160°	23.0	21.0	20.0	19.0	18.0	15.0	12.0	8.0	5.0	5.0	5.0
162.5°	14.0	13.0	13.0	12.0	11.0	10.0	7.0	4.0	2.0	2.0	2.0
165°	7.0	7.0	6.0	6.0	5.0	4.0	3.0	1.0	0.0	0.0	0.0
167.5°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
170°	1.0	1.0	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)