

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: P691190

Luminaire Tested: **CRTK2-C013-D-U-T5R-8027-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691190
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-8027-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2334 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - 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

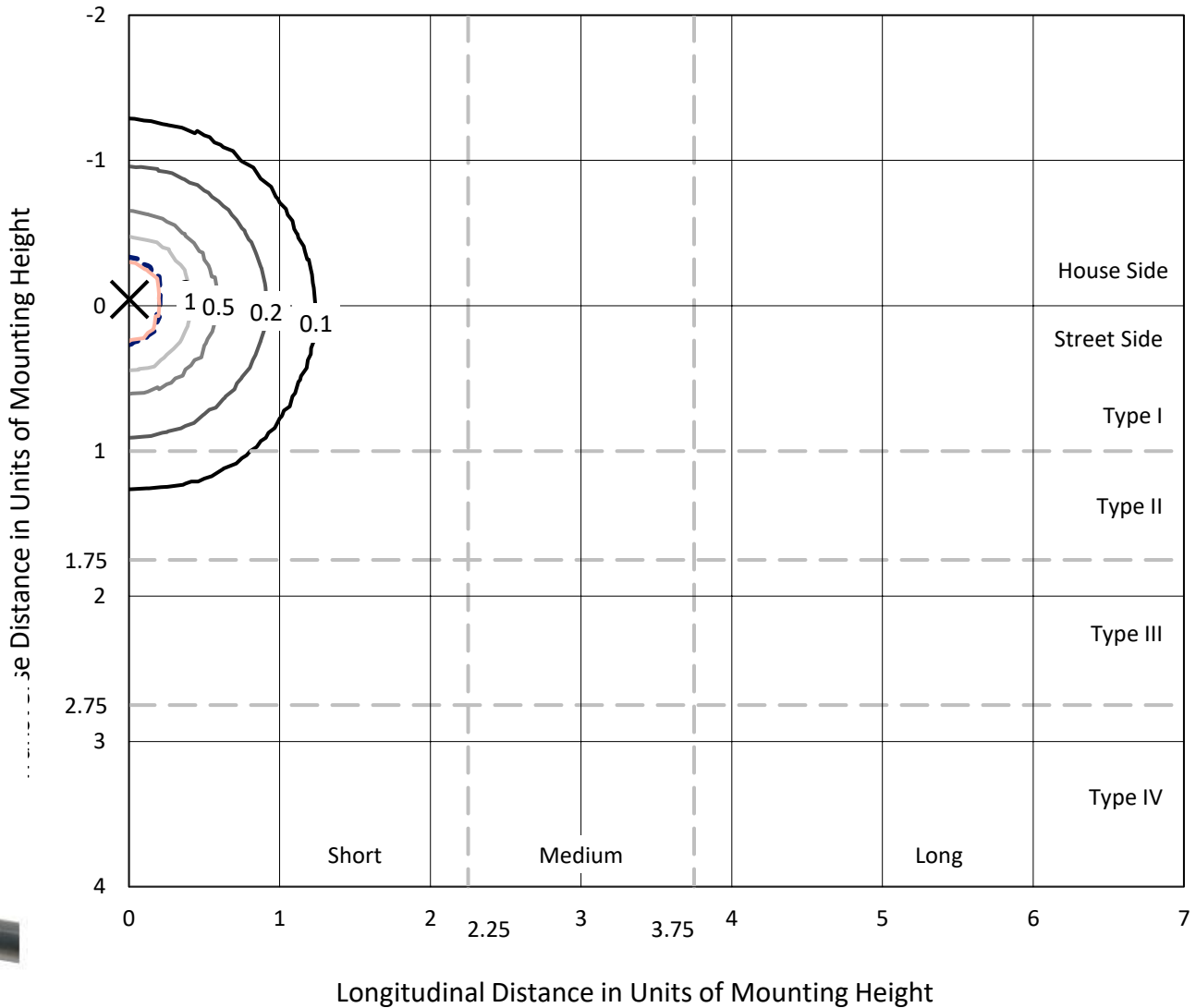


REPORT NUMBER: P691190

CATALOG NUMBER: CRTK2-C013-D-U-T5R-8027-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

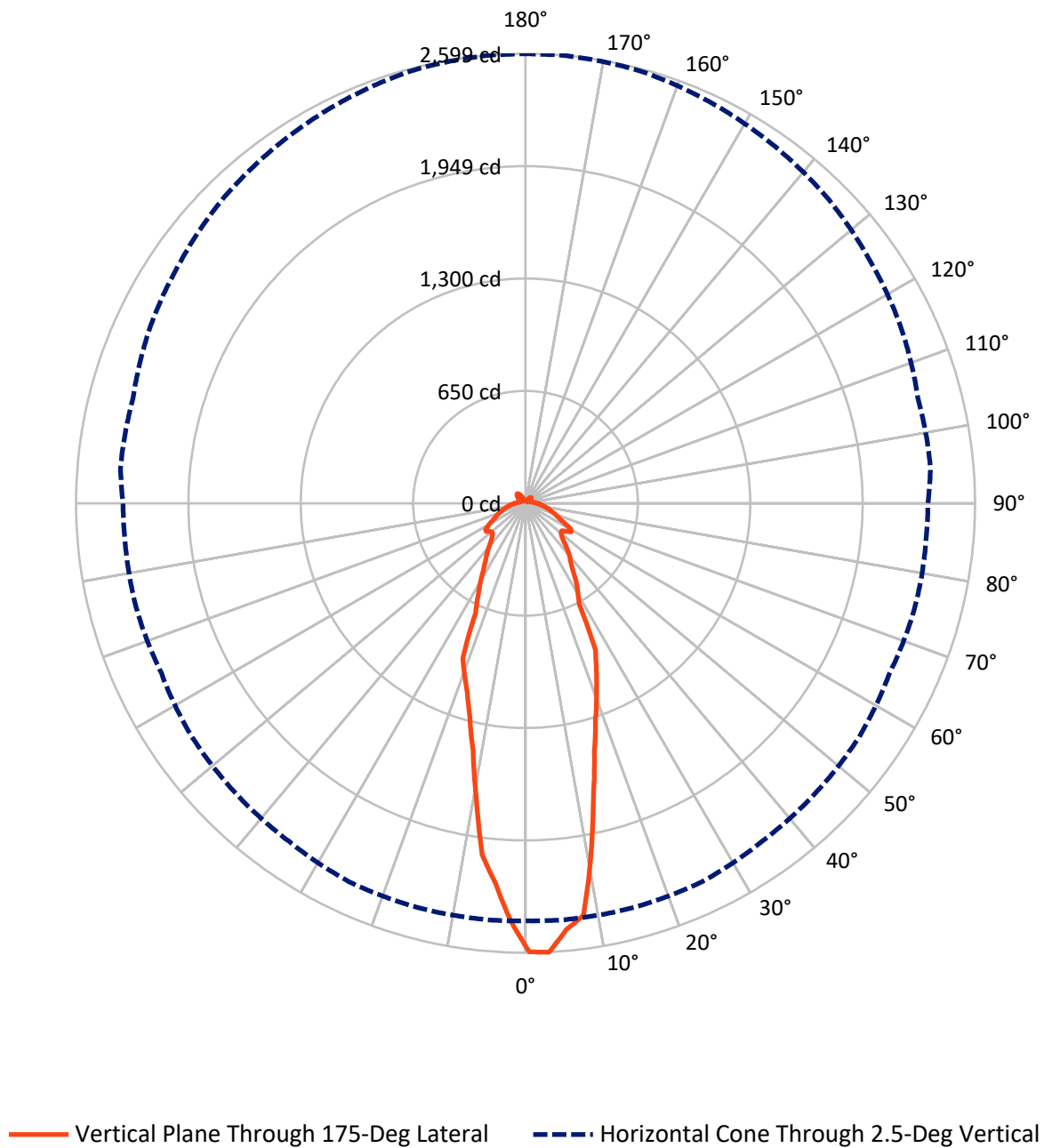


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

REPORT NUMBER: P691190

CATALOG NUMBER: CRTK2-C013-D-U-T5R-8027-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P691190

CATALOG NUMBER: CRTK2-C013-D-U-T5R-8027-RMARROA5

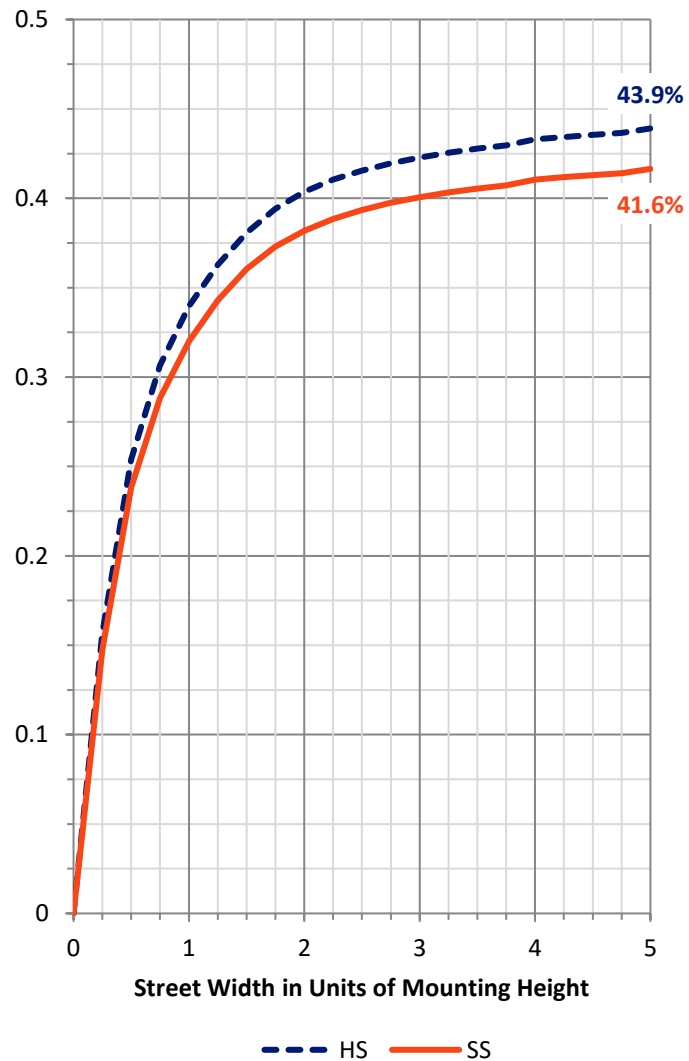
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1056.3	139.6	1195.9
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	994.9	143.2	1138.1
	% Fixture	42.6	6.1	48.8
Total	Lumens	2051.2	282.8	2334.0
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	8.3
10°-20°	338.9	14.5
20°-30°	336.1	14.4
30°-40°	259.1	11.1
40°-50°	222.1	9.5
50°-60°	248.4	10.6
60°-70°	212.8	9.1
70°-80°	146.5	6.3
80°-90°	94.3	4.0
90°-100°	56.5	2.4
100°-110°	33.6	1.4
110°-120°	31.1	1.3
120°-130°	44.4	1.9
130°-140°	57.4	2.5
140°-150°	42.5	1.8
150°-160°	15.5	0.7
160°-170°	1.8	0.1
170°-180°	0.0	0.0
0°-90°	2051.2	87.9
0°-180°	2334.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691190

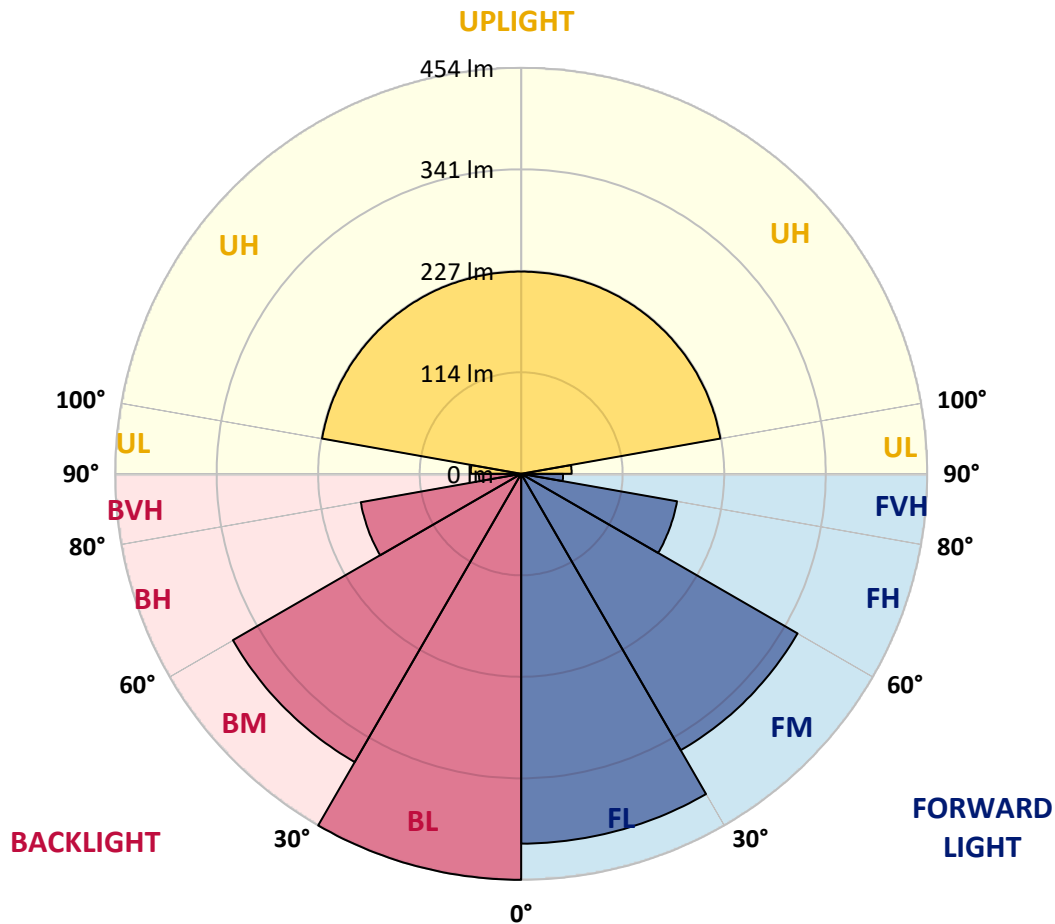
CATALOG NUMBER: CRTK2-C013-D-U-T5R-8027-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.8	17.7			
FM	(30°-60°)	357.1	15.3			
FH	(60°-80°)	177.0	7.6			G0/660
FVH	(80°-90°)	47.0	2.0			G1/100
BL	(0°-30°)	454.3	19.5	B1/500		
BM	(30°-60°)	372.5	16.0	B1/1000		
BH	(60°-80°)	182.2	7.8	B1/500		G0/660
BVH	(80°-90°)	47.3	2.0			G1/100
UL	(90°-100°)	56.5	2.4		U3/500	
UH	(100°-180°)	226.3	9.7		U3/500	

BUG Rating: B1-U3-G1

Type V Short



REPORT NUMBER: P691190

CATALOG NUMBER: CRTK2-C013-D-U-T5R-8027-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8
2.5°	2414.7	2418.2	2419.0	2414.7	2385.7	2370.7	2354.9	2323.3	2330.4	2326.0	2326.8
5°	2189.9	2203.9	2182.0	2175.8	2131.9	2099.4	2067.8	2033.6	2025.7	2011.6	2016.9
7.5°	2040.6	2048.5	2012.5	1975.6	1905.4	1855.3	1802.6	1750.0	1710.5	1695.5	1701.7
10°	1699.0	1725.4	1689.4	1651.6	1584.9	1525.2	1469.9	1418.1	1382.1	1370.6	1372.4
12.5°	1444.4	1459.3	1428.6	1403.1	1328.5	1271.4	1220.5	1172.2	1143.2	1130.9	1130.9
15°	1275.8	1282.0	1258.3	1209.1	1152.9	1101.1	1058.1	1022.9	999.2	994.8	996.6
17.5°	1148.5	1148.5	1124.8	1086.2	1043.1	997.5	967.6	941.3	930.7	934.3	935.1
20°	1052.8	1053.7	1032.6	994.8	958.0	916.7	892.1	873.7	867.5	873.7	874.5
22.5°	962.3	966.7	943.9	915.8	875.4	842.9	822.7	802.5	799.0	801.7	801.7
25°	696.3	696.3	688.4	666.4	675.2	678.7	702.4	753.4	742.8	752.5	751.6
27.5°	600.6	604.1	588.3	569.0	548.8	525.1	520.7	516.3	511.9	532.1	539.1
30°	530.3	532.1	518.9	505.8	489.1	475.9	472.4	472.4	468.0	483.8	482.9
32.5°	463.6	461.0	457.5	445.2	434.6	423.2	425.9	424.1	424.1	438.1	439.0
35°	410.9	410.1	407.4	398.6	388.1	379.3	382.0	383.7	382.8	391.6	391.6
37.5°	372.3	373.2	371.4	367.9	357.4	350.3	352.1	350.3	353.0	359.1	359.1
40°	334.5	334.5	335.4	334.5	327.5	324.9	330.1	327.5	333.7	338.1	336.3
42.5°	298.5	299.4	301.2	299.4	295.0	292.4	295.0	295.9	304.7	310.8	310.0
45°	275.7	275.7	276.6	275.7	272.2	269.6	269.6	266.9	273.1	276.6	275.7
47.5°	260.8	260.8	262.5	261.7	259.9	257.3	255.5	252.0	254.6	257.3	254.6
50°	255.5	255.5	259.0	259.0	258.1	255.5	252.9	248.5	249.4	251.1	247.6
52.5°	263.4	263.4	269.6	272.2	272.2	267.8	264.3	258.1	258.1	259.9	254.6
55°	280.1	280.1	289.8	295.0	295.9	295.9	291.5	285.4	286.2	289.8	284.5
57.5°	274.0	274.8	282.7	289.8	294.1	296.8	296.8	293.3	295.9	304.7	302.1
60°	245.0	246.7	252.0	258.1	266.1	268.7	268.7	267.8	272.2	282.7	282.7
62.5°	217.8	218.6	221.3	226.5	230.9	232.7	232.7	229.2	234.4	239.7	238.0
65°	196.7	195.8	201.1	205.5	208.1	210.7	208.1	204.6	207.2	210.7	209.9
67.5°	179.1	179.1	183.5	187.0	188.8	191.4	189.7	187.9	191.4	193.2	191.4
70°	162.4	163.3	166.8	169.5	171.2	173.9	171.2	170.3	173.9	175.6	174.7
72.5°	145.8	146.6	149.3	152.8	154.5	155.4	154.5	153.7	156.3	158.0	158.0
75°	130.8	131.7	133.5	137.0	137.0	138.7	137.9	137.0	139.6	141.4	141.4
77.5°	116.8	118.5	119.4	122.0	122.9	123.8	122.9	122.9	124.7	126.4	127.3
80°	104.5	105.4	106.2	108.9	108.9	109.8	108.9	108.9	110.6	113.3	113.3
82.5°	93.1	94.0	94.8	96.6	95.7	96.6	96.6	96.6	98.3	101.0	101.0
85°	81.7	83.4	83.4	85.2	85.2	85.2	85.2	86.0	86.9	89.6	89.6
87.5°	72.0	72.9	73.8	74.6	74.6	75.5	75.5	76.4	77.3	79.0	79.9
90°	62.3	63.2	64.1	64.1	64.1	65.0	65.0	65.9	66.7	68.5	69.4
92.5°	55.3	56.2	56.2	57.1	57.1	57.1	58.0	58.8	59.7	61.5	61.5
95°	49.2	50.0	50.0	50.0	50.0	50.9	50.9	51.8	52.7	54.4	54.4
97.5°	43.9	43.9	43.9	43.9	43.9	44.8	44.8	45.7	46.5	47.4	47.4
100°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	39.5	39.5	41.3	41.3
102.5°	34.2	34.2	33.4	33.4	33.4	32.5	32.5	33.4	33.4	34.2	34.2
105°	30.7	30.7	30.7	30.7	29.9	29.9	29.9	29.9	29.9	30.7	30.7
107.5°	29.9	29.9	29.0	29.0	29.0	28.1	28.1	28.1	28.1	29.0	29.0
110°	29.0	29.0	29.0	29.0	28.1	28.1	27.2	27.2	27.2	28.1	28.1

REPORT NUMBER: P691190

CATALOG NUMBER: CRTK2-C013-D-U-T5R-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	29.9	29.9	29.9	29.0	29.0	28.1	28.1	28.1	28.1	28.1	29.0
115°	31.6	30.7	30.7	30.7	30.7	29.9	29.0	29.0	29.9	29.9	29.9
117.5°	34.2	33.4	33.4	34.2	33.4	32.5	31.6	31.6	32.5	32.5	33.4
120°	37.8	36.9	37.8	37.8	37.8	36.9	36.0	35.1	36.0	36.9	36.9
122.5°	42.1	41.3	42.1	43.0	43.0	42.1	40.4	40.4	41.3	42.1	43.0
125°	47.4	47.4	48.3	49.2	50.0	48.3	47.4	46.5	48.3	49.2	49.2
127.5°	53.6	52.7	54.4	57.1	58.0	56.2	54.4	53.6	55.3	57.1	57.1
130°	59.7	58.8	61.5	64.1	65.9	64.1	62.3	61.5	63.2	65.0	65.0
132.5°	65.0	64.1	67.6	71.1	72.9	72.0	70.2	68.5	71.1	72.9	72.0
135°	69.4	69.4	73.8	77.3	79.0	78.1	76.4	74.6	78.1	79.9	78.1
137.5°	72.0	72.0	77.3	80.8	82.5	82.5	81.7	79.9	83.4	84.3	81.7
140°	72.0	72.9	77.3	80.8	81.7	82.5	82.5	81.7	85.2	85.2	82.5
142.5°	69.4	70.2	74.6	78.1	79.0	79.9	80.8	79.9	82.5	82.5	80.8
145°	65.0	65.9	70.2	73.8	73.8	74.6	76.4	75.5	77.3	78.1	76.4
147.5°	58.8	59.7	63.2	65.0	65.9	67.6	69.4	69.4	70.2	71.1	70.2
150°	50.9	50.9	53.6	55.3	56.2	58.0	59.7	60.6	60.6	61.5	60.6
152.5°	40.4	40.4	42.1	43.9	44.8	47.4	48.3	49.2	50.0	50.9	50.0
155°	30.7	30.7	31.6	32.5	33.4	36.0	36.9	37.8	38.6	39.5	38.6
157.5°	22.0	22.0	22.8	23.7	24.6	26.3	27.2	28.1	28.1	29.0	29.0
160°	14.0	14.9	14.9	15.8	15.8	17.6	18.4	18.4	19.3	20.2	20.2
162.5°	7.0	7.9	7.9	8.8	9.7	10.5	11.4	11.4	12.3	12.3	12.3
165°	1.8	2.6	2.6	3.5	3.5	4.4	5.3	5.3	6.1	6.1	6.1
167.5°	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
170°	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.9	0.9	0.9	0.9
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: P691190

CATALOG NUMBER: CRTK2-C013-D-U-T5R-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8
2.5°	2350.6	2348.8	2397.1	2435.7	2481.4	2517.4	2552.5	2585.9	2599.0	2598.2	2599.0
5°	2040.6	2071.3	2134.6	2196.9	2270.7	2340.0	2405.0	2448.0	2475.2	2475.2	2477.9
7.5°	1729.8	1778.9	1857.1	1956.3	2066.9	2157.4	2267.1	2344.4	2405.9	2404.1	2415.5
10°	1397.0	1435.6	1513.8	1620.0	1742.1	1846.5	1942.3	2014.3	2074.0	2070.5	2085.4
12.5°	1147.6	1174.8	1242.4	1339.0	1450.5	1551.5	1645.5	1701.7	1743.8	1742.9	1750.8
15°	1001.0	1029.1	1073.0	1139.7	1231.9	1321.5	1415.4	1466.4	1490.1	1487.4	1500.6
17.5°	941.3	952.7	979.9	1024.7	1091.4	1164.3	1238.9	1282.8	1310.1	1306.5	1316.2
20°	877.2	887.7	906.2	939.5	986.9	1042.3	1105.5	1153.8	1174.0	1173.1	1179.2
22.5°	803.4	808.7	828.9	855.2	889.5	934.3	982.5	1026.4	1046.6	1045.8	1051.9
25°	752.5	761.3	773.6	789.4	813.1	848.2	888.6	919.3	937.8	936.0	943.9
27.5°	549.7	558.4	564.6	574.2	575.1	604.1	618.2	643.6	660.3	659.4	664.7
30°	482.9	484.7	490.0	503.1	511.0	533.9	562.0	581.3	595.3	600.6	604.1
32.5°	440.8	446.1	452.2	458.3	468.0	482.1	504.0	521.6	536.5	539.1	545.3
35°	392.5	396.0	400.4	406.5	412.7	424.1	440.8	454.8	466.2	470.6	474.1
37.5°	358.2	359.1	363.5	370.5	375.8	385.5	400.4	410.9	422.3	423.2	426.7
40°	335.4	336.3	340.7	346.8	353.0	359.1	372.3	382.0	389.9	390.7	393.4
42.5°	309.1	311.7	313.5	316.1	320.5	325.8	337.2	342.4	347.7	348.6	352.1
45°	273.1	274.0	275.7	278.3	283.6	288.9	296.8	302.9	306.4	306.4	305.6
47.5°	252.9	253.8	253.8	257.3	261.7	266.9	274.0	279.2	281.0	281.0	281.0
50°	245.9	245.9	244.1	246.7	251.1	254.6	261.7	266.1	266.9	267.8	268.7
52.5°	251.1	249.4	244.1	246.7	251.1	254.6	261.7	263.4	263.4	265.2	266.1
55°	280.1	277.5	266.9	268.7	274.0	278.3	283.6	284.5	286.2	288.9	288.0
57.5°	298.5	300.3	288.0	290.6	300.3	303.8	310.0	309.1	312.6	316.1	317.0
60°	281.0	286.2	276.6	280.1	291.5	293.3	299.4	295.9	301.2	301.2	301.2
62.5°	238.8	240.6	235.3	240.6	251.1	251.1	255.5	252.9	254.6	252.9	253.8
65°	209.0	208.1	202.0	209.0	212.5	214.2	217.8	218.6	218.6	216.9	216.9
67.5°	190.5	188.8	183.5	185.3	188.8	189.7	194.9	195.8	194.9	194.9	195.8
70°	173.9	171.2	166.0	166.8	169.5	170.3	174.7	176.5	175.6	174.7	175.6
72.5°	157.2	154.5	149.3	149.3	151.9	153.7	157.2	158.9	157.2	157.2	158.0
75°	141.4	138.7	133.5	133.5	135.2	136.1	140.5	141.4	140.5	139.6	140.5
77.5°	127.3	125.6	120.3	120.3	121.2	122.0	124.7	125.6	124.7	123.8	124.7
80°	114.1	111.5	108.0	107.1	108.0	108.0	110.6	111.5	109.8	109.8	110.6
82.5°	101.9	99.2	95.7	95.7	94.8	95.7	97.5	98.3	97.5	96.6	97.5
85°	90.4	88.7	85.2	84.3	84.3	84.3	86.0	86.0	85.2	85.2	85.2
87.5°	79.9	78.1	74.6	74.6	73.8	74.6	75.5	75.5	74.6	74.6	74.6
90°	69.4	67.6	65.0	65.0	64.1	65.0	65.9	65.9	65.0	65.0	65.0
92.5°	61.5	60.6	58.0	58.0	57.1	58.0	58.0	58.0	57.1	57.1	57.1
95°	54.4	53.6	51.8	50.9	50.9	50.9	50.9	50.9	50.0	50.0	50.0
97.5°	47.4	46.5	44.8	44.8	43.9	44.8	44.8	44.8	43.9	43.9	43.9
100°	41.3	40.4	39.5	39.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6
102.5°	34.2	34.2	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
105°	30.7	30.7	30.7	30.7	31.6	31.6	31.6	30.7	30.7	30.7	30.7
107.5°	29.0	29.0	29.0	29.9	29.9	29.9	30.7	29.0	28.1	28.1	28.1
110°	28.1	28.1	29.0	29.0	29.9	29.9	30.7	27.2	26.3	26.3	26.3

REPORT NUMBER: P691190

CATALOG NUMBER: CRTK2-C013-D-U-T5R-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	29.0	29.0	29.0	29.9	30.7	30.7	31.6	27.2	26.3	26.3	26.3
115°	30.7	30.7	30.7	31.6	32.5	33.4	33.4	29.0	27.2	27.2	28.1
117.5°	33.4	33.4	33.4	34.2	36.0	36.0	36.0	30.7	29.9	29.9	29.9
120°	36.9	37.8	37.8	38.6	40.4	41.3	39.5	35.1	29.9	32.5	32.5
122.5°	42.1	43.0	43.9	44.8	47.4	47.4	44.8	40.4	32.5	36.0	36.9
125°	49.2	50.0	50.9	52.7	55.3	55.3	51.8	45.7	36.9	40.4	41.3
127.5°	56.2	58.0	58.8	61.5	65.0	65.0	60.6	52.7	41.3	43.9	44.8
130°	64.1	65.9	67.6	71.1	75.5	73.8	70.2	59.7	44.8	46.5	46.5
132.5°	71.1	73.8	74.6	79.9	84.3	82.5	78.1	64.1	46.5	46.5	45.7
135°	76.4	78.1	79.0	84.3	88.7	86.0	80.8	65.9	45.7	43.9	43.9
137.5°	79.9	81.7	82.5	86.0	89.6	85.2	78.1	62.3	43.9	43.0	42.1
140°	81.7	81.7	81.7	84.3	86.0	80.8	72.0	56.2	39.5	41.3	41.3
142.5°	79.9	79.0	78.1	79.9	80.8	74.6	66.7	50.0	36.0	37.8	37.8
145°	75.5	73.8	72.9	73.8	73.8	66.7	58.0	43.0	31.6	32.5	32.5
147.5°	69.4	66.7	65.0	65.0	64.1	57.1	49.2	36.0	27.2	26.3	26.3
150°	59.7	57.1	55.3	55.3	52.7	46.5	39.5	28.1	22.0	22.0	22.0
152.5°	49.2	46.5	44.8	44.8	42.1	36.0	29.9	21.1	16.7	16.7	16.7
155°	38.6	36.0	34.2	33.4	31.6	27.2	22.0	15.8	12.3	12.3	12.3
157.5°	29.0	27.2	25.5	24.6	22.8	20.2	15.8	11.4	7.9	8.8	8.8
160°	20.2	18.4	17.6	16.7	15.8	13.2	10.5	7.0	4.4	4.4	4.4
162.5°	12.3	11.4	11.4	10.5	9.7	8.8	6.1	3.5	1.8	1.8	1.8
165°	6.1	6.1	5.3	5.3	4.4	3.5	2.6	0.9	0.0	0.0	0.0
167.5°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
170°	0.9	0.9	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)