

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: P691122

Luminaire Tested: **CRTK2-C013-D-U-T2-7050-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C013-D-U-T2-7050-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2523 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B1 - U3 - G1

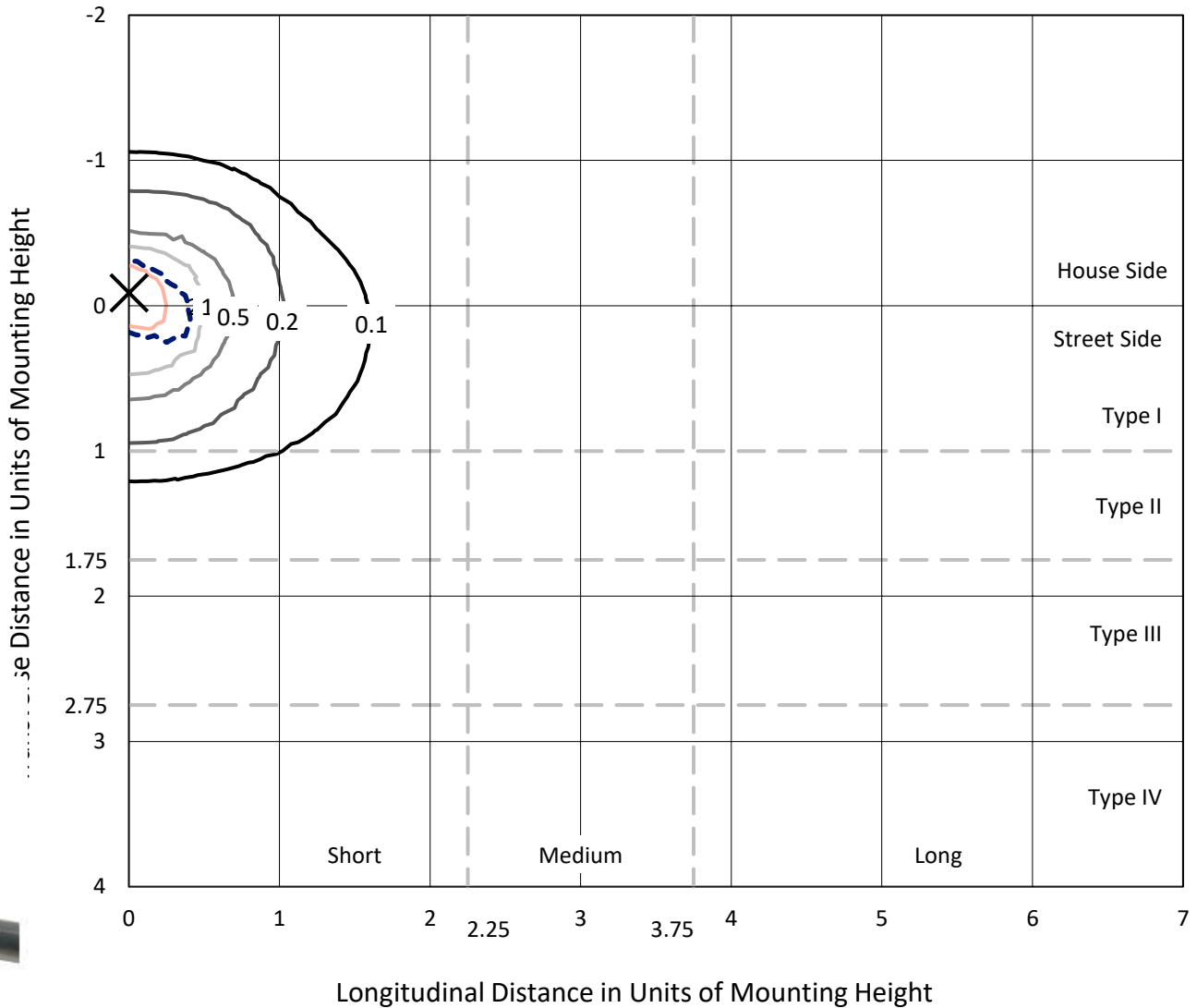
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

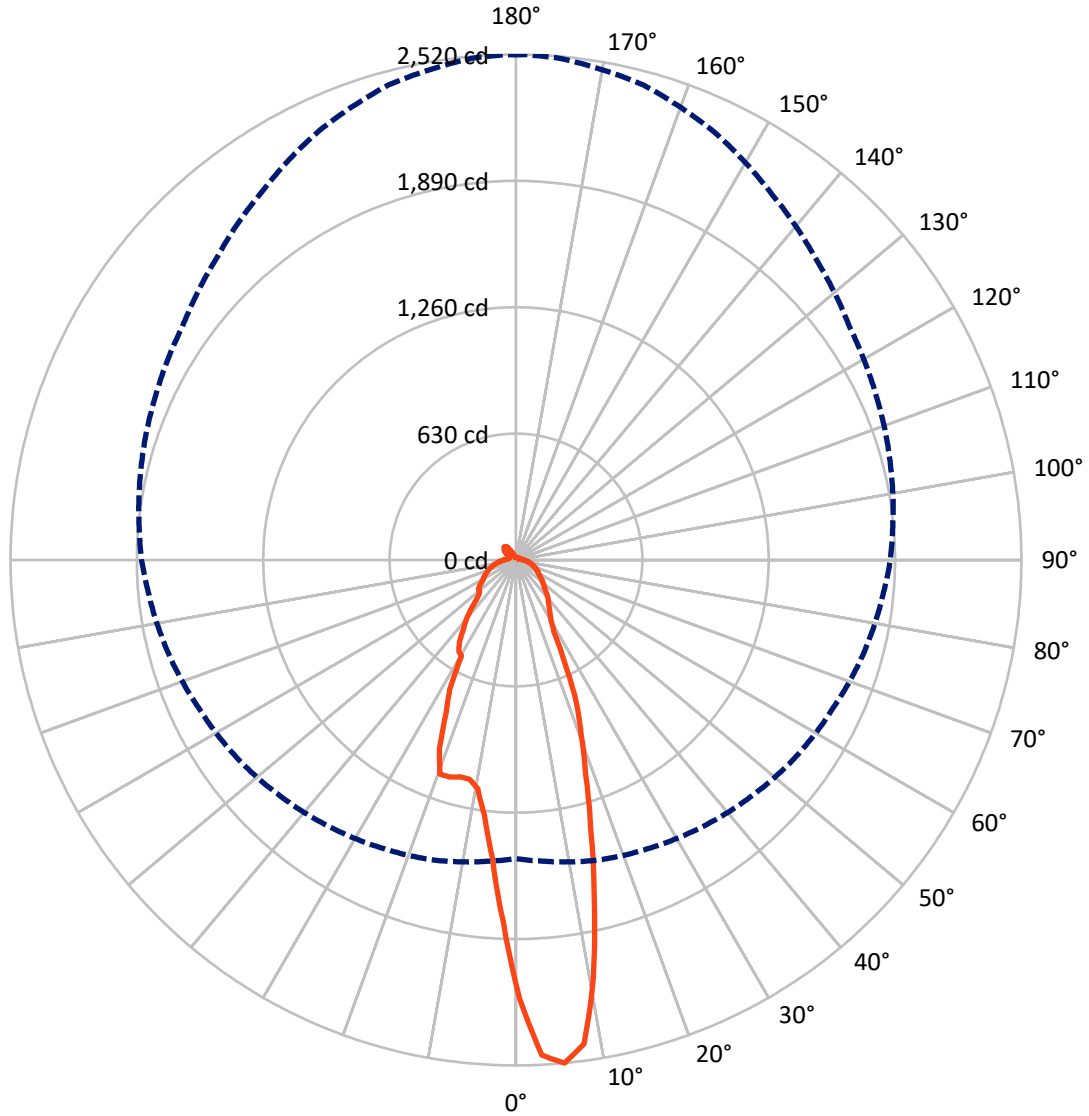
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 179-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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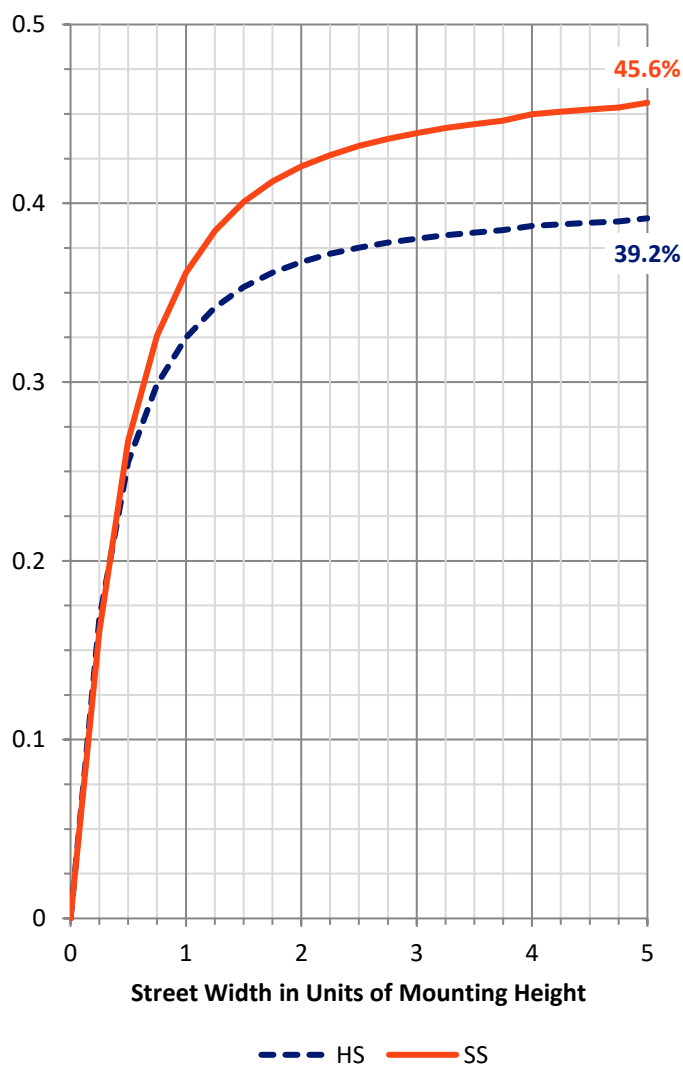
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1015.3	123.5	1138.7
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	1178.4	205.8	1384.3
	% Fixture	46.7	8.2	54.9
Total	Lumens	2193.7	329.3	2523.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	6.8
10°-20°	365.2	14.5
20°-30°	396.7	15.7
30°-40°	293.6	11.6
40°-50°	245.9	9.7
50°-60°	247.2	9.8
60°-70°	210.5	8.3
70°-80°	157.2	6.2
80°-90°	106.1	4.2
90°-100°	63.4	2.5
100°-110°	36.6	1.5
110°-120°	33.7	1.3
120°-130°	48.8	1.9
130°-140°	66.8	2.6
140°-150°	55.0	2.2
150°-160°	22.2	0.9
160°-170°	2.7	0.1
170°-180°	0.0	0.0
0°-90°	2193.7	86.9
0°-180°	2523.0	100.0

Coefficient of Utilization



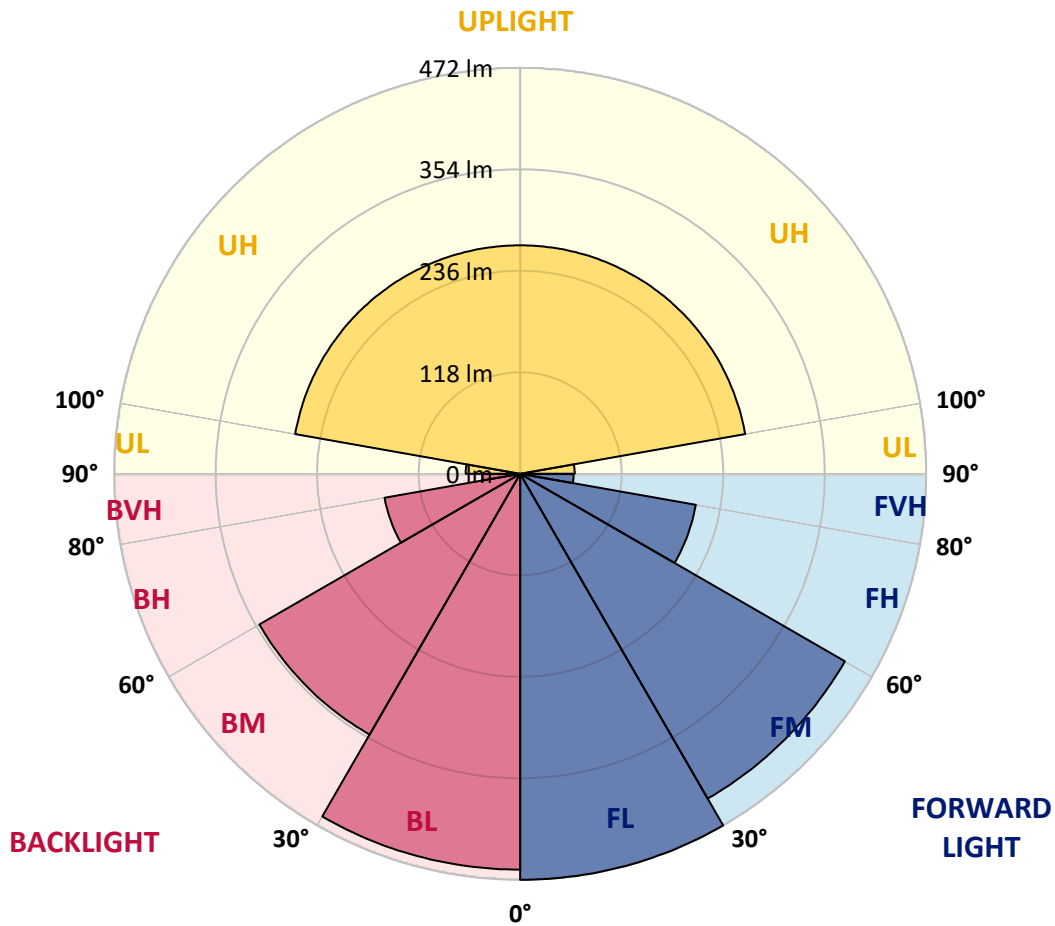
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.4	18.7			
FM (30°-60°)	436.3	17.3			
FH (60°-80°)	207.5	8.2			G0/660
FVH (80°-90°)	62.2	2.5			G1/100
BL (0°-30°)	460.6	18.3	B1/500		
BM (30°-60°)	350.5	13.9	B1/1000		
BH (60°-80°)	160.2	6.3	B1/500		G1/500
BVH (80°-90°)	44.0	1.7			G1/100
UL (90°-100°)	63.4	2.5		U3/500	
UH (100°-180°)	265.9	10.5		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°	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3
2.5°	1804.9	1815.0	1837.3	1848.4	1859.5	1873.7	1894.9	1911.1	1948.6	1983.0	1997.1
5°	1489.2	1507.4	1549.9	1584.3	1622.8	1663.3	1706.8	1745.2	1794.8	1840.3	1866.6
7.5°	1279.8	1295.0	1345.6	1412.3	1480.1	1536.8	1581.3	1610.6	1632.9	1651.1	1670.3
10°	1152.3	1165.5	1216.1	1275.8	1333.4	1386.0	1423.5	1451.8	1459.9	1478.1	1487.2
12.5°	1115.9	1122.0	1157.4	1198.9	1234.3	1285.9	1330.4	1360.8	1373.9	1390.1	1395.1
15°	1116.9	1116.9	1137.2	1163.5	1195.8	1235.3	1284.9	1321.3	1340.5	1349.6	1348.6
17.5°	1132.1	1131.1	1140.2	1161.4	1188.8	1228.2	1278.8	1316.2	1338.5	1341.5	1338.5
20°	1132.1	1133.1	1136.2	1160.4	1186.7	1222.1	1273.7	1305.1	1322.3	1313.2	1303.1
22.5°	1016.8	1015.8	1042.1	1093.7	1164.5	1238.3	1284.9	1323.3	1327.4	1294.0	1266.7
25°	839.7	832.6	847.8	871.1	918.6	1004.6	1101.8	1247.4	1334.4	1315.2	1273.7
27.5°	728.4	719.3	732.5	722.4	717.3	711.2	705.2	688.0	699.1	709.2	753.7
30°	549.4	551.4	554.4	560.5	572.6	596.9	622.2	637.4	650.5	676.8	673.8
32.5°	537.2	536.2	537.2	543.3	549.4	564.5	579.7	587.8	597.9	623.2	617.1
35°	496.7	494.7	501.8	504.8	503.8	507.9	523.1	532.2	541.3	557.5	551.4
37.5°	437.1	439.1	454.3	462.4	465.4	474.5	486.6	494.7	505.9	518.0	515.0
40°	392.5	391.5	407.7	418.8	425.9	440.1	458.3	470.4	488.7	498.8	491.7
42.5°	337.9	342.0	354.1	365.2	367.3	374.3	390.5	404.7	426.9	442.1	438.1
45°	284.3	287.3	297.4	306.5	313.6	322.7	334.9	347.0	365.2	377.4	376.4
47.5°	250.9	253.9	262.0	273.2	283.3	296.4	308.6	320.7	337.9	347.0	344.0
50°	237.8	239.8	248.9	261.0	276.2	292.4	308.6	321.7	337.9	344.0	338.9
52.5°	236.7	236.7	247.9	266.1	287.3	309.6	330.8	349.0	364.2	364.2	354.1
55°	222.6	224.6	238.8	263.0	295.4	331.8	369.3	403.7	423.9	419.9	400.6
57.5°	202.3	203.4	218.5	241.8	276.2	320.7	371.3	414.8	439.1	444.1	423.9
60°	190.2	191.2	201.3	223.6	252.9	288.3	334.9	369.3	393.6	408.7	392.5
62.5°	180.1	180.1	190.2	205.4	229.7	256.0	282.3	305.5	324.8	335.9	326.8
65°	169.0	169.0	176.0	190.2	209.4	234.7	255.0	272.2	289.3	297.4	289.3
67.5°	157.8	157.8	164.9	178.1	195.3	216.5	236.7	252.9	270.1	276.2	270.1
70°	146.7	146.7	153.8	164.9	181.1	201.3	216.5	233.7	249.9	253.9	248.9
72.5°	135.6	135.6	142.7	152.8	166.9	186.2	200.3	213.5	228.6	231.7	226.6
75°	125.5	125.5	130.5	140.6	153.8	171.0	185.1	197.3	209.4	209.4	205.4
77.5°	114.3	115.3	119.4	128.5	140.6	156.8	170.0	181.1	191.2	191.2	186.2
80°	103.2	104.2	108.3	116.3	127.5	142.7	154.8	164.9	174.0	174.0	169.0
82.5°	92.1	93.1	97.1	104.2	114.3	128.5	140.6	150.7	158.8	157.8	152.8
85°	81.9	83.0	86.0	92.1	101.2	115.3	126.5	135.6	142.7	141.6	137.6
87.5°	71.8	72.8	75.9	80.9	89.0	102.2	113.3	121.4	127.5	126.5	122.4
90°	62.7	62.7	65.8	70.8	77.9	89.0	99.1	106.2	112.3	110.3	106.2
92.5°	54.6	55.6	57.7	61.7	67.8	77.9	87.0	93.1	99.1	98.1	94.1
95°	48.6	48.6	50.6	53.6	58.7	66.8	75.9	80.9	85.0	85.0	81.9
97.5°	42.5	43.5	44.5	46.5	50.6	56.7	63.7	68.8	71.8	71.8	69.8
100°	38.4	39.5	39.5	41.5	43.5	47.6	52.6	56.7	59.7	59.7	58.7
102.5°	36.4	36.4	36.4	37.4	38.4	40.5	43.5	45.5	47.6	48.6	47.6
105°	34.4	34.4	34.4	35.4	35.4	37.4	38.4	40.5	41.5	41.5	40.5
107.5°	33.4	33.4	34.4	34.4	34.4	35.4	37.4	37.4	38.4	37.4	37.4
110°	34.4	34.4	34.4	34.4	34.4	35.4	36.4	36.4	36.4	36.4	35.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	35.4	35.4	35.4	35.4	36.4	36.4	36.4	37.4	37.4	36.4	36.4
115°	38.4	38.4	38.4	38.4	38.4	39.5	39.5	39.5	39.5	38.4	37.4
117.5°	41.5	41.5	41.5	42.5	42.5	43.5	42.5	43.5	42.5	41.5	41.5
120°	46.5	46.5	47.6	48.6	49.6	49.6	48.6	49.6	49.6	47.6	46.5
122.5°	52.6	52.6	53.6	56.7	57.7	58.7	57.7	57.7	57.7	55.6	54.6
125°	58.7	59.7	61.7	65.8	68.8	70.8	68.8	69.8	69.8	66.8	65.8
127.5°	65.8	66.8	70.8	76.9	81.9	84.0	83.0	84.0	85.0	79.9	77.9
130°	72.8	72.8	78.9	88.0	95.1	98.1	99.1	100.2	101.2	96.1	92.1
132.5°	78.9	78.9	87.0	98.1	107.2	112.3	114.3	116.3	118.4	111.3	106.2
135°	83.0	84.0	94.1	107.2	118.4	125.5	128.5	130.5	133.5	125.5	119.4
137.5°	86.0	88.0	98.1	112.3	124.4	134.6	140.6	143.7	145.7	137.6	129.5
140°	87.0	88.0	99.1	113.3	125.5	136.6	145.7	150.7	151.8	143.7	135.6
142.5°	84.0	86.0	96.1	110.3	122.4	134.6	144.7	149.7	150.7	143.7	135.6
145°	79.9	80.9	90.0	103.2	115.3	128.5	139.6	144.7	144.7	138.6	130.5
147.5°	72.8	73.9	81.9	93.1	105.2	118.4	129.5	134.6	135.6	129.5	122.4
150°	62.7	63.7	69.8	78.9	91.1	104.2	114.3	120.4	120.4	114.3	109.3
152.5°	50.6	51.6	56.7	63.7	73.9	86.0	95.1	101.2	101.2	97.1	91.1
155°	39.5	39.5	43.5	49.6	56.7	65.8	72.8	77.9	78.9	74.9	70.8
157.5°	28.3	28.3	31.4	36.4	42.5	49.6	54.6	58.7	58.7	55.6	53.6
160°	19.2	19.2	21.2	24.3	28.3	33.4	37.4	41.5	41.5	39.5	37.4
162.5°	10.1	10.1	12.1	14.2	17.2	21.2	23.3	26.3	26.3	25.3	24.3
165°	3.0	3.0	4.0	5.1	7.1	9.1	10.1	12.1	13.2	12.1	11.1
167.5°	0.0	0.0	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	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°	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3	2189.3
2.5°	2012.3	2076.0	2133.7	2193.4	2267.2	2332.0	2401.8	2451.4	2472.6	2472.6	2480.7
5°	1885.8	1930.3	1976.9	2029.5	2117.5	2225.8	2350.2	2452.4	2511.1	2520.2	2519.2
7.5°	1676.4	1706.8	1754.3	1813.0	1893.9	1991.0	2150.9	2310.7	2417.0	2436.2	2429.1
10°	1492.3	1520.6	1548.9	1571.2	1628.9	1705.7	1823.1	1978.9	2101.3	2120.5	2105.4
12.5°	1398.2	1407.3	1406.3	1419.4	1442.7	1481.1	1540.8	1630.9	1714.8	1733.1	1719.9
15°	1348.6	1335.5	1315.2	1292.0	1289.9	1296.0	1311.2	1347.6	1383.0	1398.2	1388.1
17.5°	1328.4	1297.0	1255.5	1210.0	1179.7	1151.3	1132.1	1120.0	1125.0	1126.0	1117.9
20°	1280.8	1243.4	1176.6	1111.9	1063.3	1013.7	971.2	939.9	934.8	929.8	923.7
22.5°	1227.2	1163.5	1083.5	1004.6	932.8	867.0	819.5	782.1	767.9	772.9	769.9
25°	1216.1	1109.8	1012.7	885.2	794.2	720.3	631.3	570.6	543.3	558.5	548.3
27.5°	729.4	732.5	677.8	601.0	535.2	491.7	452.2	419.9	401.6	401.6	403.7
30°	660.6	631.3	594.9	547.3	489.7	446.2	402.7	367.3	348.0	343.0	345.0
32.5°	604.0	583.8	549.4	503.8	451.2	406.7	361.2	328.8	310.6	309.6	308.6
35°	543.3	522.0	493.7	454.3	408.7	367.3	327.8	299.5	283.3	284.3	284.3
37.5°	501.8	482.6	457.3	419.9	378.4	336.9	301.5	275.2	262.0	262.0	261.0
40°	480.6	458.3	431.0	396.6	358.1	314.6	281.3	256.0	244.8	244.8	243.8
42.5°	434.0	414.8	396.6	361.2	322.7	287.3	256.0	233.7	222.6	222.6	222.6
45°	368.3	357.1	343.0	318.7	287.3	258.0	231.7	210.4	201.3	200.3	200.3
47.5°	339.9	327.8	310.6	288.3	263.0	235.7	210.4	195.3	186.2	186.2	186.2
50°	331.8	317.7	294.4	268.1	241.8	217.5	195.3	181.1	173.0	173.0	174.0
52.5°	343.0	319.7	288.3	256.0	228.6	201.3	182.1	167.9	161.9	161.9	160.9
55°	381.4	337.9	292.4	252.9	218.5	189.2	169.0	153.8	146.7	146.7	146.7
57.5°	402.7	351.1	295.4	248.9	209.4	180.1	158.8	142.7	135.6	135.6	135.6
60°	378.4	335.9	283.3	240.8	202.3	172.0	149.7	134.6	127.5	126.5	125.5
62.5°	316.7	290.4	252.9	217.5	187.2	160.9	142.7	127.5	120.4	120.4	119.4
65°	282.3	260.0	227.6	197.3	172.0	149.7	132.5	120.4	113.3	112.3	112.3
67.5°	263.0	242.8	210.4	182.1	158.8	138.6	122.4	111.3	106.2	104.2	104.2
70°	241.8	219.5	191.2	165.9	144.7	126.5	113.3	102.2	97.1	96.1	95.1
72.5°	220.6	200.3	174.0	149.7	130.5	115.3	103.2	93.1	88.0	87.0	87.0
75°	198.3	179.1	153.8	133.5	117.4	103.2	92.1	84.0	79.9	78.9	77.9
77.5°	180.1	162.9	138.6	119.4	104.2	93.1	83.0	75.9	71.8	71.8	70.8
80°	162.9	146.7	123.4	106.2	93.1	81.9	73.9	67.8	64.7	63.7	63.7
82.5°	146.7	130.5	109.3	94.1	81.9	72.8	64.7	59.7	56.7	56.7	56.7
85°	131.5	116.3	97.1	83.0	71.8	63.7	56.7	51.6	49.6	48.6	49.6
87.5°	116.3	102.2	86.0	72.8	62.7	54.6	48.6	44.5	42.5	42.5	42.5
90°	102.2	89.0	73.9	61.7	53.6	46.5	41.5	37.4	36.4	35.4	35.4
92.5°	90.0	78.9	65.8	55.6	47.6	42.5	37.4	34.4	32.4	32.4	32.4
95°	78.9	68.8	58.7	49.6	43.5	38.4	34.4	31.4	30.4	30.4	30.4
97.5°	67.8	59.7	51.6	44.5	39.5	35.4	31.4	29.3	28.3	27.3	28.3
100°	56.7	50.6	44.5	39.5	35.4	31.4	28.3	26.3	25.3	25.3	25.3
102.5°	45.5	42.5	37.4	33.4	30.4	28.3	25.3	23.3	22.3	22.3	22.3
105°	39.5	36.4	33.4	30.4	28.3	25.3	23.3	21.2	20.2	20.2	20.2
107.5°	36.4	34.4	31.4	29.3	26.3	24.3	22.3	19.2	18.2	18.2	18.2
110°	35.4	33.4	31.4	28.3	26.3	24.3	22.3	18.2	17.2	17.2	17.2



REPORT NUMBER: P691122
 CATALOG NUMBER: CRTK2-C013-D-U-T2-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	35.4	33.4	31.4	29.3	27.3	24.3	22.3	18.2	16.2	16.2	16.2
115°	37.4	35.4	33.4	31.4	28.3	25.3	23.3	18.2	16.2	16.2	16.2
117.5°	40.5	38.4	36.4	33.4	30.4	27.3	23.3	18.2	17.2	17.2	17.2
120°	45.5	43.5	40.5	37.4	33.4	29.3	25.3	19.2	16.2	17.2	17.2
122.5°	52.6	50.6	46.5	41.5	37.4	32.4	26.3	20.2	15.2	17.2	17.2
125°	62.7	59.7	53.6	47.6	41.5	35.4	28.3	21.2	16.2	18.2	18.2
127.5°	73.9	69.8	61.7	53.6	46.5	38.4	30.4	22.3	17.2	18.2	18.2
130°	87.0	79.9	69.8	59.7	50.6	41.5	32.4	23.3	18.2	18.2	18.2
132.5°	100.2	90.0	76.9	65.8	54.6	43.5	33.4	23.3	18.2	18.2	18.2
135°	111.3	99.1	84.0	69.8	56.7	44.5	34.4	23.3	18.2	18.2	18.2
137.5°	121.4	105.2	88.0	71.8	57.7	44.5	33.4	23.3	17.2	17.2	17.2
140°	126.5	108.3	90.0	71.8	56.7	43.5	31.4	21.2	16.2	16.2	16.2
142.5°	126.5	107.2	88.0	69.8	54.6	41.5	29.3	20.2	14.2	15.2	15.2
145°	122.4	103.2	84.0	65.8	50.6	37.4	26.3	17.2	13.2	13.2	13.2
147.5°	113.3	95.1	76.9	59.7	45.5	32.4	23.3	15.2	11.1	10.1	11.1
150°	101.2	84.0	66.8	51.6	38.4	27.3	19.2	12.1	9.1	9.1	9.1
152.5°	85.0	69.8	55.6	42.5	30.4	21.2	14.2	9.1	7.1	7.1	7.1
155°	66.8	54.6	43.5	32.4	23.3	16.2	11.1	7.1	5.1	5.1	5.1
157.5°	50.6	41.5	32.4	23.3	17.2	12.1	8.1	5.1	4.0	4.0	4.0
160°	35.4	28.3	22.3	16.2	11.1	8.1	5.1	3.0	2.0	2.0	2.0
162.5°	22.3	18.2	14.2	9.1	7.1	5.1	3.0	2.0	1.0	1.0	1.0
165°	10.1	9.1	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	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)