

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: P691337

Luminaire Tested: **CRTK2-C015-D-U-T3-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C015-D-U-T3-7050-RMARROA5-HSS-CRTK2  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3397 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')  
IES Classification: Type I - Short  
BUG Rating: B2 - U3 - G1

Input Watts (W): 29.9  
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

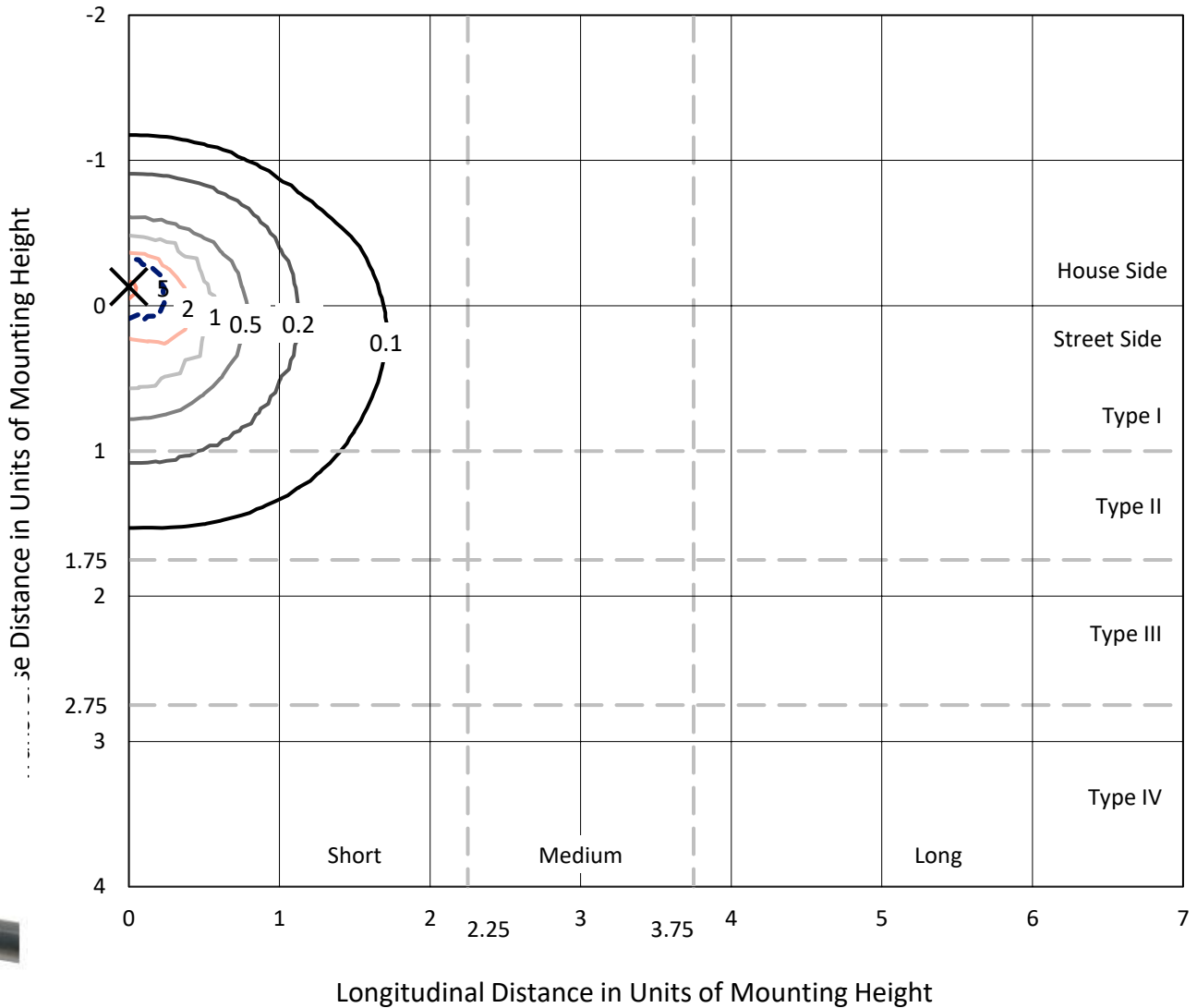


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### Iso-Footcandle Lines of Horizontal Illumination

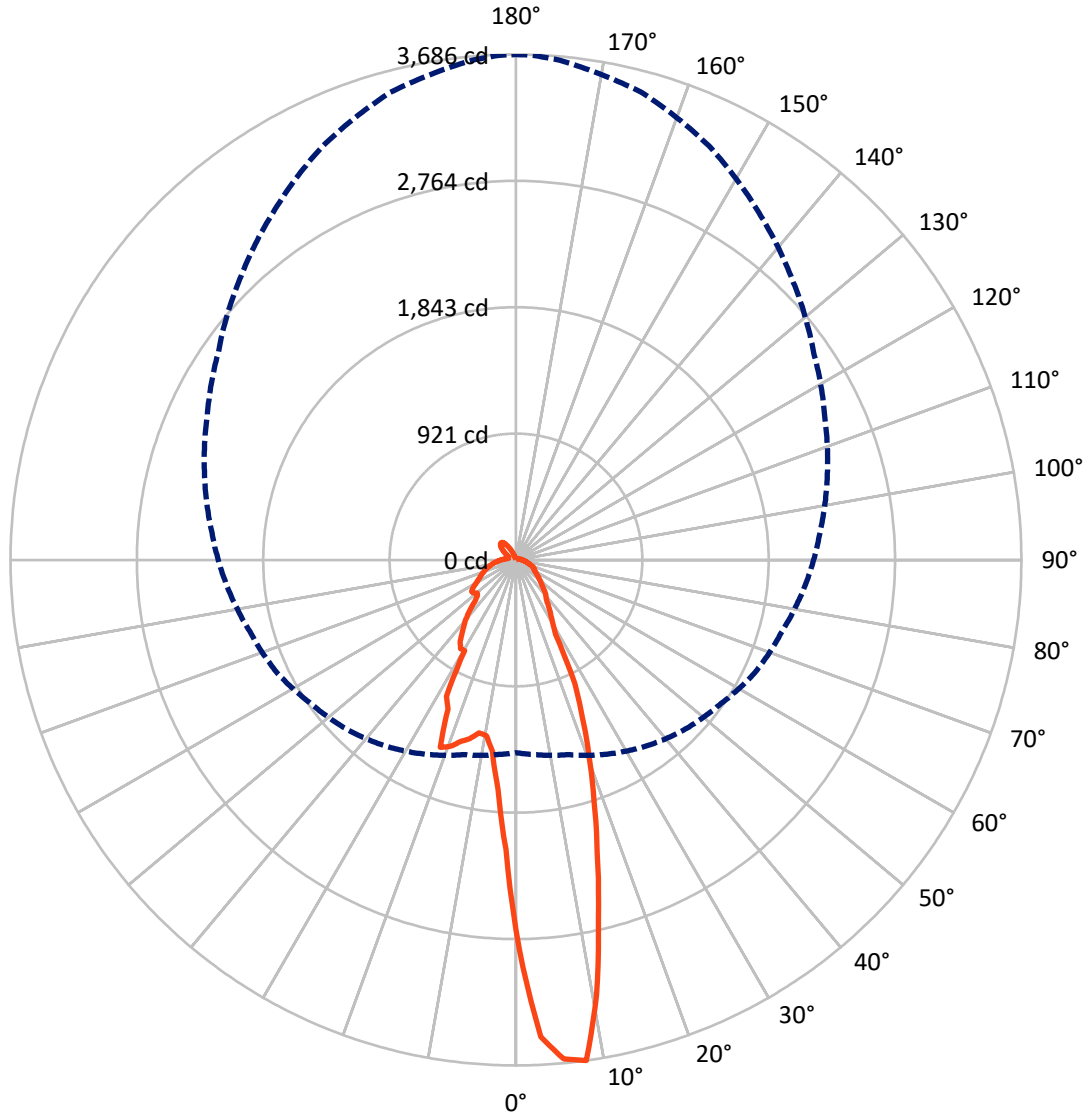
x Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral      - - - Horizontal Cone Through 7.5-Deg Vertical

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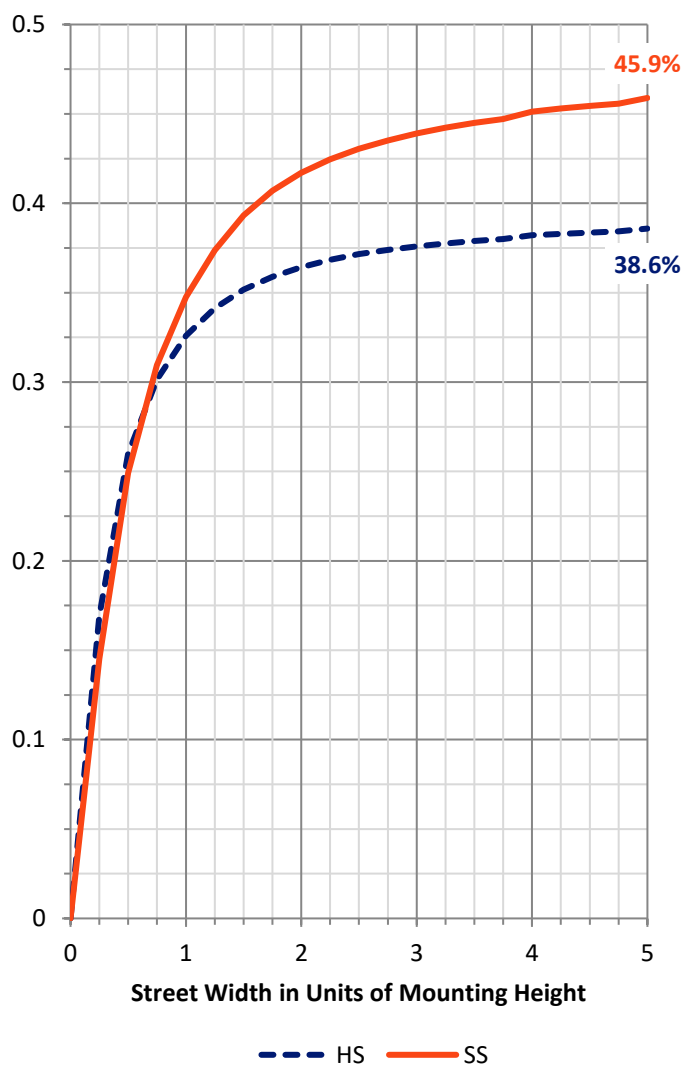
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1344.9	140.3	1485.2
	% Fixture	39.6	4.1	43.7
<b>Street Side</b>	Lumens	1603.8	308.0	1911.8
	% Fixture	47.2	9.1	56.3
<b>Total</b>	Lumens	2948.7	448.3	3397.0
	% Fixture	86.8	13.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	6.7
10°-20°	486.9	14.3
20°-30°	537.7	15.8
30°-40°	389.9	11.5
40°-50°	328.5	9.7
50°-60°	335.4	9.9
60°-70°	285.8	8.4
70°-80°	213.1	6.3
80°-90°	143.8	4.2
90°-100°	86.0	2.5
100°-110°	49.5	1.5
110°-120°	46.2	1.4
120°-130°	67.3	2.0
130°-140°	91.5	2.7
140°-150°	74.5	2.2
150°-160°	29.7	0.9
160°-170°	3.6	0.1
170°-180°	0.0	0.0
0°-90°	2948.7	86.8
0°-180°	3397.0	100.0

**Coefficient of Utilization**



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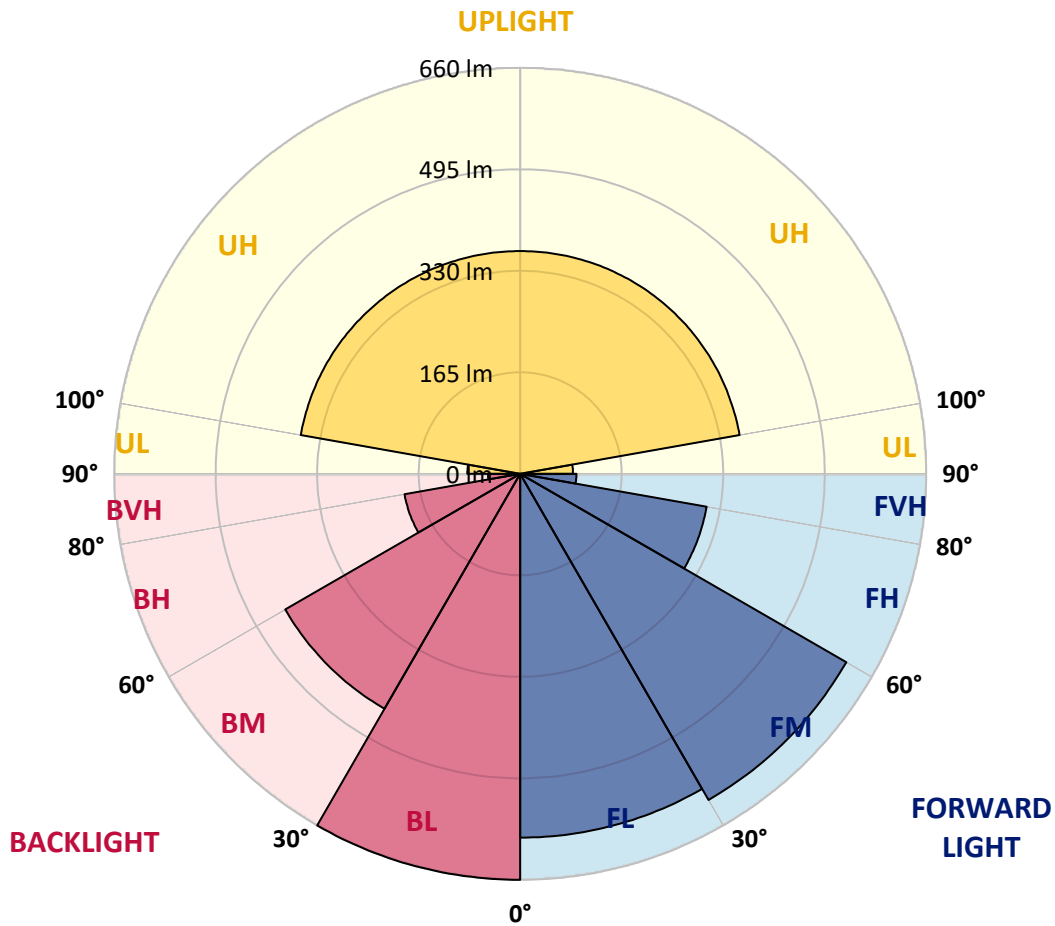
CATALOG NUMBER: CRTK2-C015-D-U-T3-7050-RMARROA5-HSS-CRTK2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.8	17.4			
FM (30°-60°)	612.6	18.0			
FH (60°-80°)	307.9	9.1			G0/660
FVH (80°-90°)	91.5	2.7			G1/100
BL (0°-30°)	660.4	19.4	B2/1000		
BM (30°-60°)	441.2	13.0	B1/1000		
BH (60°-80°)	191.0	5.6	B1/500		G1/500
BVH (80°-90°)	52.3	1.5			G1/100
UL (90°-100°)	86.0	2.5		U3/500	
UH (100°-180°)	362.3	10.7		U3/500	

**BUG Rating: B2-U3-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5
2.5°	2108.2	2157.1	2161.5	2214.9	2254.9	2292.0	2318.7	2395.8	2474.4	2548.5	2591.5
5°	1673.8	1697.5	1740.5	1798.3	1872.4	1930.3	2013.3	2121.5	2225.3	2355.8	2419.5
7.5°	1405.4	1423.2	1469.2	1562.6	1656.0	1744.9	1825.0	1928.8	2008.8	2117.1	2170.4
10°	1298.7	1309.1	1347.6	1412.9	1501.8	1575.9	1645.6	1724.2	1795.4	1894.7	1933.2
12.5°	1288.3	1292.8	1323.9	1369.9	1421.8	1482.5	1540.4	1607.1	1682.7	1761.3	1790.9
15°	1344.7	1341.7	1352.1	1378.8	1408.4	1455.9	1509.2	1570.0	1642.7	1700.5	1724.2
17.5°	1384.7	1383.2	1402.5	1414.3	1442.5	1470.7	1524.1	1571.5	1642.7	1688.6	1702.0
20°	1442.5	1445.5	1451.4	1473.6	1485.5	1504.8	1537.4	1565.6	1626.3	1653.0	1650.1
22.5°	1473.6	1472.2	1497.4	1549.3	1562.6	1573.0	1578.9	1590.8	1624.9	1623.4	1601.1
25°	1194.9	1197.9	1203.8	1248.3	1304.6	1396.6	1472.2	1590.8	1654.5	1630.8	1583.4
27.5°	1116.4	1107.5	1076.3	1051.1	975.5	925.1	877.7	856.9	867.3	885.1	934.0
30°	760.5	762.0	765.0	769.4	776.9	796.1	809.5	810.9	821.3	851.0	840.6
32.5°	762.0	763.5	759.1	763.5	760.5	768.0	766.5	760.5	769.4	796.1	785.7
35°	716.1	713.1	716.1	717.5	701.2	695.3	693.8	689.4	695.3	708.7	699.8
37.5°	644.9	643.4	656.8	664.2	650.8	650.8	647.9	641.9	646.4	658.2	646.4
40°	582.6	584.1	603.4	615.3	610.8	615.3	619.7	618.2	628.6	633.0	618.2
42.5°	514.4	511.5	530.7	539.6	530.7	533.7	532.2	533.7	554.5	563.4	553.0
45°	429.9	434.4	443.3	455.1	453.7	458.1	456.6	459.6	472.9	477.4	470.0
47.5°	382.5	385.5	395.8	409.2	416.6	424.0	424.0	425.5	434.4	435.9	428.5
50°	372.1	375.1	388.4	403.3	415.1	424.0	428.5	427.0	431.4	428.5	418.1
52.5°	389.9	389.9	410.7	428.5	443.3	459.6	465.5	459.6	459.6	447.7	431.4
55°	397.3	398.8	424.0	455.1	483.3	513.0	532.2	530.7	529.3	510.0	480.3
57.5°	373.6	378.0	403.3	438.8	477.4	524.8	553.0	557.4	557.4	532.2	499.6
60°	339.5	342.5	361.7	391.4	429.9	465.5	495.2	498.1	507.0	493.7	464.0
62.5°	311.3	314.3	330.6	352.8	381.0	403.3	412.1	412.1	416.6	412.1	391.4
65°	290.6	292.1	305.4	324.7	343.9	361.7	370.6	367.7	373.6	367.7	351.4
67.5°	271.3	271.3	283.2	298.0	315.8	336.5	342.5	345.4	351.4	343.9	329.1
70°	252.0	253.5	265.4	277.2	293.5	308.4	314.3	315.8	323.2	314.3	303.9
72.5°	235.7	235.7	246.1	258.0	269.8	284.6	289.1	292.1	296.5	287.6	278.7
75°	216.5	217.9	226.8	237.2	247.6	262.4	266.9	268.3	272.8	262.4	253.5
77.5°	198.7	200.1	207.6	216.5	226.8	238.7	243.1	246.1	247.6	238.7	229.8
80°	180.9	182.4	188.3	197.2	206.1	217.9	220.9	222.4	225.3	215.0	209.0
82.5°	164.6	164.6	169.0	176.4	185.3	195.7	200.1	201.6	203.1	194.2	188.3
85°	145.3	145.3	149.7	157.1	164.6	174.9	179.4	180.9	180.9	173.5	167.5
87.5°	129.0	129.0	131.9	137.9	143.8	154.2	158.6	161.6	160.1	154.2	148.3
90°	112.7	112.7	115.6	120.1	126.0	134.9	139.4	140.8	140.8	133.4	129.0
92.5°	97.8	97.8	100.8	105.3	109.7	117.1	121.6	124.5	124.5	118.6	114.2
95°	84.5	84.5	86.0	90.4	94.9	100.8	103.8	106.7	106.7	103.8	99.3
97.5°	72.6	72.6	74.1	77.1	80.1	84.5	87.5	90.4	90.4	89.0	86.0
100°	63.7	63.7	63.7	65.2	68.2	69.7	72.6	75.6	75.6	74.1	72.6
102.5°	57.8	57.8	57.8	57.8	57.8	59.3	59.3	60.8	60.8	60.8	59.3
105°	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	53.4	51.9	50.4
107.5°	54.9	53.4	53.4	53.4	53.4	51.9	51.9	51.9	50.4	48.9	47.4
110°	54.9	54.9	54.9	54.9	53.4	51.9	51.9	50.4	48.9	47.4	46.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	57.8	57.8	57.8	56.3	54.9	54.9	53.4	51.9	50.4	47.4	46.0
115°	62.3	62.3	62.3	62.3	60.8	57.8	56.3	54.9	51.9	50.4	48.9
117.5°	69.7	69.7	69.7	69.7	66.7	65.2	62.3	60.8	57.8	54.9	53.4
120°	78.6	78.6	80.1	80.1	78.6	75.6	71.2	69.7	66.7	62.3	59.3
122.5°	91.9	90.4	93.4	93.4	93.4	90.4	84.5	81.5	78.6	72.6	69.7
125°	105.3	105.3	108.2	111.2	112.7	108.2	102.3	97.8	93.4	86.0	81.5
127.5°	120.1	120.1	126.0	131.9	134.9	130.5	123.1	118.6	112.7	102.3	96.4
130°	134.9	134.9	143.8	152.7	157.1	154.2	146.8	140.8	133.4	120.1	112.7
132.5°	148.3	148.3	158.6	170.5	176.4	174.9	167.5	161.6	155.7	139.4	129.0
135°	158.6	160.1	173.5	186.8	194.2	195.7	188.3	180.9	173.5	155.7	143.8
137.5°	164.6	167.5	180.9	197.2	204.6	209.0	204.6	197.2	188.3	169.0	155.7
140°	166.0	167.5	182.4	198.7	206.1	212.0	212.0	203.1	195.7	176.4	161.6
142.5°	161.6	163.1	177.9	192.7	200.1	207.6	209.0	201.6	194.2	176.4	161.6
145°	151.2	154.2	167.5	179.4	189.8	197.2	200.1	195.7	186.8	170.5	157.1
147.5°	137.9	139.4	151.2	161.6	172.0	180.9	185.3	180.9	173.5	158.6	146.8
150°	117.1	118.6	127.5	136.4	148.3	157.1	163.1	160.1	154.2	142.3	130.5
152.5°	94.9	94.9	102.3	109.7	120.1	129.0	134.9	133.4	129.0	118.6	109.7
155°	72.6	72.6	77.1	83.0	91.9	97.8	103.8	103.8	100.8	93.4	86.0
157.5°	51.9	51.9	56.3	60.8	66.7	72.6	77.1	77.1	75.6	69.7	65.2
160°	34.1	34.1	37.1	40.0	46.0	48.9	53.4	53.4	51.9	48.9	46.0
162.5°	17.8	17.8	20.8	22.2	26.7	29.7	32.6	34.1	34.1	31.1	29.7
165°	5.9	5.9	5.9	7.4	10.4	13.3	14.8	16.3	16.3	14.8	14.8
167.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.0	4.4	4.4	4.4	4.4
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°	178°	180°
0°	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5	2840.5
2.5°	2637.4	2772.3	2888.0	3009.6	3144.5	3258.6	3374.3	3438.0	3492.9	3482.5	3482.5
5°	2481.8	2616.7	2757.5	2905.8	3088.1	3274.9	3452.8	3580.3	3647.0	3657.4	3655.9
7.5°	2223.8	2349.8	2483.3	2647.8	2861.3	3089.6	3331.3	3531.4	3657.4	3681.1	3685.6
10°	1968.8	2063.7	2176.4	2289.0	2480.3	2689.3	2905.8	3065.9	3188.9	3206.7	3227.5
12.5°	1816.1	1868.0	1940.6	2019.2	2143.8	2296.5	2474.4	2566.3	2644.8	2653.7	2673.0
15°	1737.5	1762.7	1780.5	1808.7	1882.8	1977.7	2059.2	2149.7	2182.3	2204.5	2214.9
17.5°	1706.4	1703.4	1685.6	1685.6	1691.6	1727.2	1779.0	1810.2	1830.9	1841.3	1844.3
20°	1642.7	1616.0	1580.4	1532.9	1507.7	1495.9	1509.2	1516.6	1510.7	1503.3	1516.6
22.5°	1575.9	1519.6	1455.9	1401.0	1335.8	1295.7	1257.2	1243.9	1227.5	1237.9	1237.9
25°	1555.2	1455.9	1353.6	1261.6	1163.8	1097.1	1025.9	1000.7	975.5	996.3	996.3
27.5°	919.2	919.2	861.4	784.3	699.8	664.2	636.0	619.7	609.3	613.8	613.8
30°	822.8	784.3	748.7	699.8	634.5	591.5	554.5	532.2	521.9	518.9	521.9
32.5°	763.5	733.9	690.9	641.9	584.1	536.7	495.2	472.9	456.6	459.6	461.1
35°	683.5	652.3	615.3	569.3	520.4	475.9	438.8	416.6	401.8	401.8	403.3
37.5°	633.0	601.9	566.3	524.8	477.4	434.4	400.3	373.6	360.3	358.8	358.8
40°	601.9	570.8	538.2	496.7	452.2	407.7	373.6	349.9	333.6	333.6	335.1
42.5°	545.6	515.9	487.8	450.7	410.7	372.1	339.5	318.7	302.4	299.5	302.4
45°	459.6	443.3	421.0	395.8	361.7	330.6	301.0	283.2	269.8	269.8	268.3
47.5°	421.0	404.7	381.0	355.8	327.6	296.5	272.8	256.5	244.6	244.6	244.6
50°	406.2	388.4	358.8	330.6	298.0	271.3	250.5	234.2	225.3	225.3	223.9
52.5°	413.6	385.5	346.9	306.9	275.8	249.1	228.3	212.0	204.6	204.6	203.1
55°	453.7	403.3	346.9	298.0	260.9	231.3	210.5	192.7	185.3	185.3	185.3
57.5°	470.0	413.6	343.9	289.1	247.6	216.5	191.2	174.9	167.5	167.5	166.0
60°	440.3	392.9	329.1	277.2	237.2	206.1	182.4	166.0	157.1	157.1	155.7
62.5°	375.1	341.0	292.1	253.5	222.4	194.2	173.5	157.1	149.7	149.7	149.7
65°	336.5	306.9	268.3	234.2	206.1	182.4	163.1	149.7	142.3	142.3	142.3
67.5°	314.3	289.1	250.5	217.9	189.8	167.5	149.7	137.9	131.9	130.5	131.9
70°	290.6	263.9	228.3	197.2	172.0	151.2	134.9	123.1	117.1	117.1	117.1
72.5°	265.4	240.2	206.1	177.9	152.7	136.4	120.1	109.7	103.8	103.8	102.3
75°	241.7	216.5	183.8	157.1	136.4	120.1	106.7	97.8	91.9	91.9	91.9
77.5°	219.4	195.7	164.6	140.8	121.6	108.2	94.9	87.5	83.0	83.0	81.5
80°	198.7	176.4	146.8	126.0	108.2	96.4	84.5	78.6	74.1	74.1	74.1
82.5°	177.9	157.1	130.5	111.2	96.4	84.5	75.6	69.7	66.7	65.2	66.7
85°	158.6	139.4	115.6	97.8	84.5	74.1	66.7	60.8	57.8	57.8	57.8
87.5°	140.8	123.1	102.3	86.0	74.1	65.2	57.8	53.4	51.9	50.4	50.4
90°	121.6	105.3	87.5	74.1	63.7	56.3	48.9	46.0	43.0	43.0	43.0
92.5°	108.2	94.9	78.6	66.7	57.8	51.9	46.0	43.0	40.0	40.0	40.0
95°	94.9	83.0	69.7	60.8	53.4	47.4	43.0	40.0	38.5	38.5	38.5
97.5°	81.5	72.6	62.3	54.9	48.9	44.5	40.0	37.1	35.6	35.6	35.6
100°	68.2	62.3	54.9	48.9	44.5	40.0	35.6	34.1	32.6	32.6	32.6
102.5°	56.3	51.9	46.0	41.5	37.1	34.1	31.1	29.7	28.2	28.2	28.2
105°	48.9	46.0	41.5	37.1	34.1	31.1	28.2	25.2	25.2	25.2	25.2
107.5°	46.0	41.5	38.5	35.6	32.6	28.2	26.7	23.7	22.2	22.2	22.2
110°	44.5	41.5	38.5	34.1	31.1	28.2	25.2	22.2	20.8	20.8	20.8



REPORT NUMBER: P691337  
 CATALOG NUMBER: CRTK2-C015-D-U-T3-7050-RMARROA5-HSS-CRTK2

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	44.5	41.5	38.5	35.6	32.6	28.2	26.7	20.8	19.3	19.3	19.3
115°	47.4	44.5	40.0	37.1	32.6	29.7	26.7	20.8	19.3	19.3	19.3
117.5°	50.4	47.4	43.0	40.0	35.6	31.1	26.7	20.8	19.3	19.3	19.3
120°	57.8	53.4	47.4	43.0	38.5	32.6	28.2	20.8	17.8	19.3	19.3
122.5°	65.2	60.8	53.4	47.4	41.5	35.6	28.2	20.8	17.8	19.3	19.3
125°	77.1	69.7	60.8	53.4	44.5	37.1	29.7	20.8	16.3	17.8	19.3
127.5°	90.4	81.5	69.7	59.3	48.9	38.5	29.7	20.8	16.3	17.8	17.8
130°	105.3	93.4	78.6	63.7	51.9	40.0	29.7	20.8	16.3	17.8	17.8
132.5°	120.1	103.8	86.0	69.7	54.9	41.5	29.7	19.3	16.3	16.3	16.3
135°	131.9	112.7	91.9	72.6	56.3	41.5	28.2	19.3	14.8	14.8	14.8
137.5°	142.3	120.1	96.4	74.1	56.3	40.0	26.7	17.8	13.3	13.3	13.3
140°	148.3	123.1	97.8	72.6	53.4	38.5	25.2	16.3	11.9	11.9	11.9
142.5°	148.3	121.6	94.9	71.2	50.4	35.6	22.2	13.3	10.4	10.4	10.4
145°	142.3	115.6	90.4	66.7	46.0	31.1	19.3	11.9	8.9	8.9	8.9
147.5°	133.4	106.7	83.0	60.8	41.5	26.7	16.3	10.4	7.4	7.4	7.4
150°	118.6	94.9	72.6	51.9	35.6	22.2	13.3	8.9	5.9	5.9	5.9
152.5°	99.3	78.6	60.8	43.0	29.7	17.8	11.9	5.9	4.4	4.4	4.4
155°	78.6	62.3	47.4	34.1	22.2	13.3	8.9	5.9	3.0	3.0	3.0
157.5°	59.3	46.0	35.6	25.2	16.3	10.4	5.9	4.4	3.0	3.0	3.0
160°	41.5	32.6	23.7	16.3	10.4	7.4	4.4	3.0	1.5	1.5	1.5
162.5°	26.7	20.8	14.8	10.4	5.9	4.4	3.0	1.5	1.5	1.5	0.0
165°	13.3	10.4	7.4	4.4	3.0	1.5	1.5	1.5	0.0	0.0	0.0
167.5°	3.0	3.0	3.0	1.5	1.5	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)