

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: P691321

Luminaire Tested: **CRTK2-C015-D-U-T3-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691321
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-T3-7030-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 3261 lumens
Efficiency: N/A
Efficacy: 109.1 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



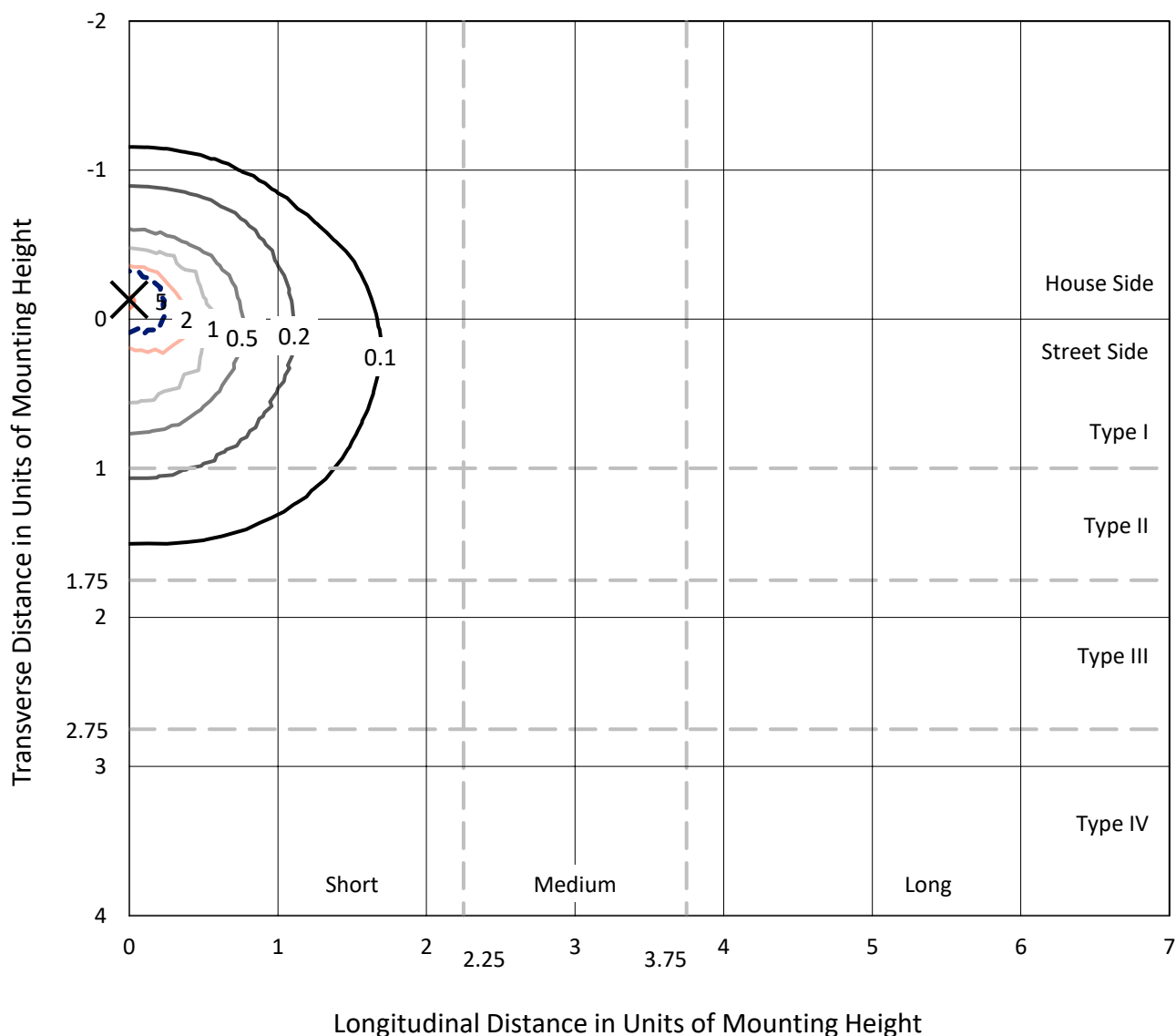
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



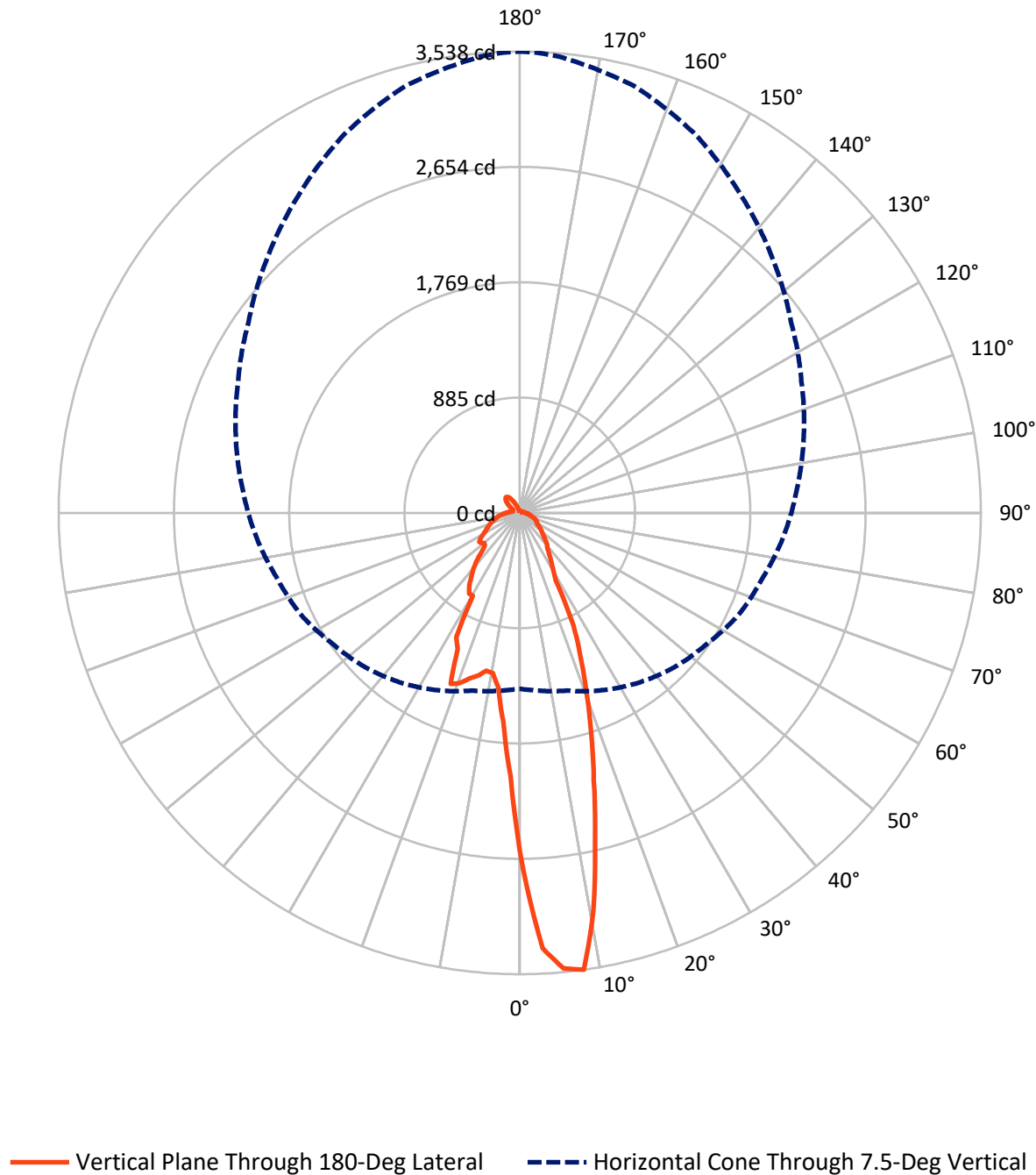
Based on 25 foot mounting height. Maximum calculated value = 5.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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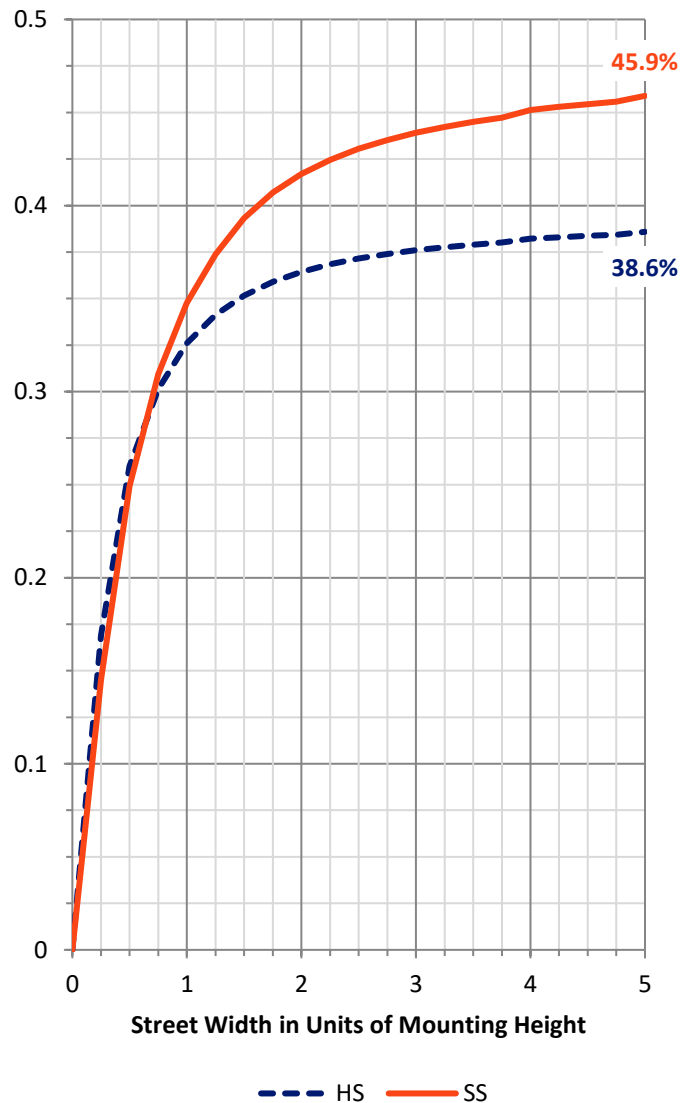
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1291.1	134.6	1425.7
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1539.6	295.7	1835.3
	% Fixture	47.2	9.1	56.3
Total	Lumens	2830.7	430.3	3261.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	6.7
10°-20°	467.4	14.3
20°-30°	516.1	15.8
30°-40°	374.3	11.5
40°-50°	315.4	9.7
50°-60°	322.0	9.9
60°-70°	274.4	8.4
70°-80°	204.6	6.3
80°-90°	138.1	4.2
90°-100°	82.5	2.5
100°-110°	47.5	1.5
110°-120°	44.4	1.4
120°-130°	64.6	2.0
130°-140°	87.8	2.7
140°-150°	71.5	2.2
150°-160°	28.5	0.9
160°-170°	3.5	0.1
170°-180°	0.0	0.0
0°-90°	2830.7	86.8
0°-180°	3261.0	100.0

Coefficient of Utilization



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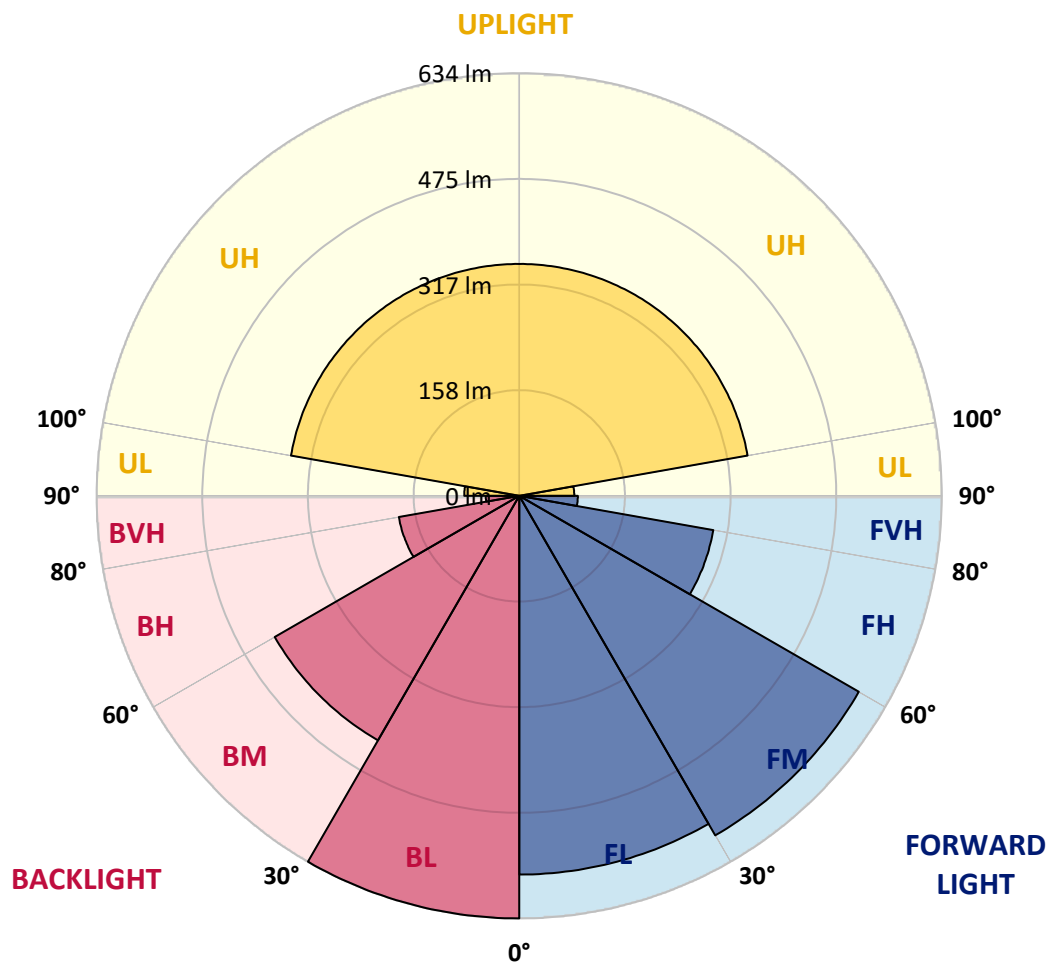
CATALOG NUMBER: CRTK2-C015-D-U-T3-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	568.1	17.4			
FM	(30°-60°)	588.1	18.0			
FH	(60°-80°)	295.6	9.1			G0/660
FVH	(80°-90°)	87.8	2.7			G1/100
BL	(0°-30°)	633.9	19.4	B2/1000		
BM	(30°-60°)	423.6	13.0	B1/1000		
BH	(60°-80°)	183.4	5.6	B1/500		G1/500
BVH	(80°-90°)	50.2	1.5			G1/100
UL	(90°-100°)	82.5	2.5		U3/500	
UH	(100°-180°)	347.8	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°	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8
2.5°	2023.8	2070.7	2075.0	2126.2	2164.7	2200.2	2225.9	2299.9	2375.3	2446.5	2487.7
5°	1606.8	1629.5	1670.8	1726.3	1797.5	1853.0	1932.7	2036.6	2136.2	2261.4	2322.6
7.5°	1349.2	1366.3	1410.4	1500.0	1589.7	1675.1	1751.9	1851.6	1928.4	2032.3	2083.5
10°	1246.7	1256.7	1293.7	1356.3	1441.7	1512.8	1579.7	1655.2	1723.5	1818.8	1855.8
12.5°	1236.7	1241.0	1270.9	1315.0	1364.8	1423.2	1478.7	1542.7	1615.3	1690.7	1719.2
15°	1290.8	1288.0	1297.9	1323.6	1352.0	1397.6	1448.8	1507.2	1576.9	1632.4	1655.2
17.5°	1329.3	1327.8	1346.3	1357.7	1384.8	1411.8	1463.0	1508.6	1576.9	1621.0	1633.8
20°	1384.8	1387.6	1393.3	1414.6	1426.0	1444.5	1475.8	1502.9	1561.2	1586.9	1584.0
22.5°	1414.6	1413.2	1437.4	1487.2	1500.0	1510.0	1515.7	1527.1	1559.8	1558.4	1537.0
25°	1147.1	1149.9	1155.6	1198.3	1252.4	1340.6	1413.2	1527.1	1588.3	1565.5	1520.0
27.5°	1071.7	1063.1	1033.2	1009.0	936.5	888.1	842.5	822.6	832.6	849.6	896.6
30°	730.1	731.5	734.4	738.6	745.7	764.3	777.1	778.5	788.4	816.9	806.9
32.5°	731.5	732.9	728.7	732.9	730.1	737.2	735.8	730.1	738.6	764.3	754.3
35°	687.4	684.6	687.4	688.8	673.2	667.5	666.1	661.8	667.5	680.3	671.7
37.5°	619.1	617.7	630.5	637.6	624.8	624.8	621.9	616.2	620.5	631.9	620.5
40°	559.3	560.7	579.2	590.6	586.4	590.6	594.9	593.5	603.4	607.7	593.5
42.5°	493.8	491.0	509.5	518.0	509.5	512.3	510.9	512.3	532.3	540.8	530.8
45°	412.7	417.0	425.5	436.9	435.5	439.8	438.3	441.2	454.0	458.3	451.1
47.5°	367.2	370.0	380.0	392.8	399.9	407.0	407.0	408.5	417.0	418.4	411.3
50°	357.2	360.1	372.9	387.1	398.5	407.0	411.3	409.9	414.1	411.3	401.3
52.5°	374.3	374.3	394.2	411.3	425.5	441.2	446.9	441.2	441.2	429.8	414.1
55°	381.4	382.8	407.0	436.9	464.0	492.4	510.9	509.5	508.1	489.6	461.1
57.5°	358.6	362.9	387.1	421.3	458.3	503.8	530.8	535.1	535.1	510.9	479.6
60°	325.9	328.8	347.3	375.7	412.7	446.9	475.3	478.2	486.7	473.9	445.5
62.5°	298.9	301.7	317.4	338.7	365.8	387.1	395.6	395.6	399.9	395.6	375.7
65°	278.9	280.4	293.2	311.7	330.2	347.3	355.8	352.9	358.6	352.9	337.3
67.5°	260.4	260.4	271.8	286.1	303.1	323.1	328.8	331.6	337.3	330.2	315.9
70°	241.9	243.4	254.8	266.1	281.8	296.0	301.7	303.1	310.3	301.7	291.8
72.5°	226.3	226.3	236.2	247.6	259.0	273.3	277.5	280.4	284.6	276.1	267.6
75°	207.8	209.2	217.7	227.7	237.7	251.9	256.2	257.6	261.9	251.9	243.4
77.5°	190.7	192.1	199.2	207.8	217.7	229.1	233.4	236.2	237.7	229.1	220.6
80°	173.6	175.1	180.7	189.3	197.8	209.2	212.1	213.5	216.3	206.4	200.7
82.5°	158.0	158.0	162.2	169.4	177.9	187.9	192.1	193.6	195.0	186.4	180.7
85°	139.5	139.5	143.7	150.9	158.0	167.9	172.2	173.6	173.6	166.5	160.8
87.5°	123.8	123.8	126.7	132.4	138.0	148.0	152.3	155.1	153.7	148.0	142.3
90°	108.2	108.2	111.0	115.3	121.0	129.5	133.8	135.2	135.2	128.1	123.8
92.5°	93.9	93.9	96.8	101.0	105.3	112.4	116.7	119.5	119.5	113.9	109.6
95°	81.1	81.1	82.5	86.8	91.1	96.8	99.6	102.5	102.5	99.6	95.4
97.5°	69.7	69.7	71.2	74.0	76.9	81.1	84.0	86.8	86.8	85.4	82.5
100°	61.2	61.2	61.2	62.6	65.5	66.9	69.7	72.6	72.6	71.2	69.7
102.5°	55.5	55.5	55.5	55.5	55.5	56.9	56.9	58.4	58.4	58.4	56.9
105°	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	51.2	49.8	48.4
107.5°	52.7	51.2	51.2	51.2	51.2	49.8	49.8	49.8	48.4	47.0	45.5
110°	52.7	52.7	52.7	52.7	51.2	49.8	49.8	48.4	47.0	45.5	44.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	55.5	55.5	55.5	54.1	52.7	52.7	51.2	49.8	48.4	45.5	44.1
115°	59.8	59.8	59.8	59.8	58.4	55.5	54.1	52.7	49.8	48.4	47.0
117.5°	66.9	66.9	66.9	66.9	64.0	62.6	59.8	58.4	55.5	52.7	51.2
120°	75.4	75.4	76.9	76.9	75.4	72.6	68.3	66.9	64.0	59.8	56.9
122.5°	88.2	86.8	89.7	89.7	89.7	86.8	81.1	78.3	75.4	69.7	66.9
125°	101.0	101.0	103.9	106.7	108.2	103.9	98.2	93.9	89.7	82.5	78.3
127.5°	115.3	115.3	121.0	126.7	129.5	125.2	118.1	113.9	108.2	98.2	92.5
130°	129.5	129.5	138.0	146.6	150.9	148.0	140.9	135.2	128.1	115.3	108.2
132.5°	142.3	142.3	152.3	163.7	169.4	167.9	160.8	155.1	149.4	133.8	123.8
135°	152.3	153.7	166.5	179.3	186.4	187.9	180.7	173.6	166.5	149.4	138.0
137.5°	158.0	160.8	173.6	189.3	196.4	200.7	196.4	189.3	180.7	162.2	149.4
140°	159.4	160.8	175.1	190.7	197.8	203.5	203.5	195.0	187.9	169.4	155.1
142.5°	155.1	156.6	170.8	185.0	192.1	199.2	200.7	193.6	186.4	169.4	155.1
145°	145.2	148.0	160.8	172.2	182.2	189.3	192.1	187.9	179.3	163.7	150.9
147.5°	132.4	133.8	145.2	155.1	165.1	173.6	177.9	173.6	166.5	152.3	140.9
150°	112.4	113.9	122.4	130.9	142.3	150.9	156.6	153.7	148.0	136.6	125.2
152.5°	91.1	91.1	98.2	105.3	115.3	123.8	129.5	128.1	123.8	113.9	105.3
155°	69.7	69.7	74.0	79.7	88.2	93.9	99.6	99.6	96.8	89.7	82.5
157.5°	49.8	49.8	54.1	58.4	64.0	69.7	74.0	74.0	72.6	66.9	62.6
160°	32.7	32.7	35.6	38.4	44.1	47.0	51.2	51.2	49.8	47.0	44.1
162.5°	17.1	17.1	19.9	21.3	25.6	28.5	31.3	32.7	32.7	29.9	28.5
165°	5.7	5.7	5.7	7.1	10.0	12.8	14.2	15.7	15.7	14.2	14.2
167.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.3	4.3	4.3	4.3
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°	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8
2.5°	2531.8	2661.4	2772.4	2889.1	3018.6	3128.2	3239.2	3300.4	3353.0	3343.1	3343.1
5°	2382.4	2511.9	2647.1	2789.4	2964.5	3143.8	3314.6	3437.0	3501.0	3511.0	3509.6
7.5°	2134.8	2255.7	2383.8	2541.8	2746.7	2965.9	3197.9	3390.0	3511.0	3533.8	3538.0
10°	1890.0	1981.1	2089.2	2197.4	2381.0	2581.7	2789.4	2943.1	3061.3	3078.3	3098.3
12.5°	1743.4	1793.2	1862.9	1938.4	2057.9	2204.5	2375.3	2463.5	2539.0	2547.5	2566.0
15°	1668.0	1692.2	1709.2	1736.3	1807.4	1898.5	1976.8	2063.6	2094.9	2116.3	2126.2
17.5°	1638.1	1635.2	1618.2	1618.2	1623.9	1658.0	1707.8	1737.7	1757.6	1767.6	1770.4
20°	1576.9	1551.3	1517.1	1471.6	1447.4	1436.0	1448.8	1455.9	1450.2	1443.1	1455.9
22.5°	1512.8	1458.8	1397.6	1344.9	1282.3	1243.9	1206.9	1194.1	1178.4	1188.4	1188.4
25°	1492.9	1397.6	1299.4	1211.1	1117.2	1053.2	984.8	960.7	936.5	956.4	956.4
27.5°	882.4	882.4	826.9	752.9	671.7	637.6	610.5	594.9	584.9	589.2	589.2
30°	789.9	752.9	718.7	671.7	609.1	567.9	532.3	510.9	501.0	498.1	501.0
32.5°	732.9	704.5	663.2	616.2	560.7	515.2	475.3	454.0	438.3	441.2	442.6
35°	656.1	626.2	590.6	546.5	499.5	456.8	421.3	399.9	385.7	385.7	387.1
37.5°	607.7	577.8	543.7	503.8	458.3	417.0	384.3	358.6	345.8	344.4	344.4
40°	577.8	547.9	516.6	476.8	434.1	391.4	358.6	335.9	320.2	320.2	321.6
42.5°	523.7	495.3	468.2	432.6	394.2	357.2	325.9	306.0	290.3	287.5	290.3
45°	441.2	425.5	404.2	380.0	347.3	317.4	288.9	271.8	259.0	259.0	257.6
47.5°	404.2	388.5	365.8	341.6	314.5	284.6	261.9	246.2	234.8	234.8	234.8
50°	390.0	372.9	344.4	317.4	286.1	260.4	240.5	224.9	216.3	216.3	214.9
52.5°	397.1	370.0	333.0	294.6	264.7	239.1	219.2	203.5	196.4	196.4	195.0
55°	435.5	387.1	333.0	286.1	250.5	222.0	202.1	185.0	177.9	177.9	177.9
57.5°	451.1	397.1	330.2	277.5	237.7	207.8	183.6	167.9	160.8	160.8	159.4
60°	422.7	377.1	315.9	266.1	227.7	197.8	175.1	159.4	150.9	150.9	149.4
62.5°	360.1	327.3	280.4	243.4	213.5	186.4	166.5	150.9	143.7	143.7	143.7
65°	323.1	294.6	257.6	224.9	197.8	175.1	156.6	143.7	136.6	136.6	136.6
67.5°	301.7	277.5	240.5	209.2	182.2	160.8	143.7	132.4	126.7	125.2	126.7
70°	278.9	253.3	219.2	189.3	165.1	145.2	129.5	118.1	112.4	112.4	112.4
72.5°	254.8	230.6	197.8	170.8	146.6	130.9	115.3	105.3	99.6	99.6	98.2
75°	232.0	207.8	176.5	150.9	130.9	115.3	102.5	93.9	88.2	88.2	88.2
77.5°	210.6	187.9	158.0	135.2	116.7	103.9	91.1	84.0	79.7	79.7	78.3
80°	190.7	169.4	140.9	121.0	103.9	92.5	81.1	75.4	71.2	71.2	71.2
82.5°	170.8	150.9	125.2	106.7	92.5	81.1	72.6	66.9	64.0	62.6	64.0
85°	152.3	133.8	111.0	93.9	81.1	71.2	64.0	58.4	55.5	55.5	55.5
87.5°	135.2	118.1	98.2	82.5	71.2	62.6	55.5	51.2	49.8	48.4	48.4
90°	116.7	101.0	84.0	71.2	61.2	54.1	47.0	44.1	41.3	41.3	41.3
92.5°	103.9	91.1	75.4	64.0	55.5	49.8	44.1	41.3	38.4	38.4	38.4
95°	91.1	79.7	66.9	58.4	51.2	45.5	41.3	38.4	37.0	37.0	37.0
97.5°	78.3	69.7	59.8	52.7	47.0	42.7	38.4	35.6	34.2	34.2	34.2
100°	65.5	59.8	52.7	47.0	42.7	38.4	34.2	32.7	31.3	31.3	31.3
102.5°	54.1	49.8	44.1	39.8	35.6	32.7	29.9	28.5	27.0	27.0	27.0
105°	47.0	44.1	39.8	35.6	32.7	29.9	27.0	24.2	24.2	24.2	24.2
107.5°	44.1	39.8	37.0	34.2	31.3	27.0	25.6	22.8	21.3	21.3	21.3
110°	42.7	39.8	37.0	32.7	29.9	27.0	24.2	21.3	19.9	19.9	19.9



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CATALOG NUMBER: CRTK2-C015-D-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	42.7	39.8	37.0	34.2	31.3	27.0	25.6	19.9	18.5	18.5	18.5
115°	45.5	42.7	38.4	35.6	31.3	28.5	25.6	19.9	18.5	18.5	18.5
117.5°	48.4	45.5	41.3	38.4	34.2	29.9	25.6	19.9	18.5	18.5	18.5
120°	55.5	51.2	45.5	41.3	37.0	31.3	27.0	19.9	17.1	18.5	18.5
122.5°	62.6	58.4	51.2	45.5	39.8	34.2	27.0	19.9	17.1	18.5	18.5
125°	74.0	66.9	58.4	51.2	42.7	35.6	28.5	19.9	15.7	17.1	18.5
127.5°	86.8	78.3	66.9	56.9	47.0	37.0	28.5	19.9	15.7	17.1	17.1
130°	101.0	89.7	75.4	61.2	49.8	38.4	28.5	19.9	15.7	17.1	17.1
132.5°	115.3	99.6	82.5	66.9	52.7	39.8	28.5	18.5	15.7	15.7	15.7
135°	126.7	108.2	88.2	69.7	54.1	39.8	27.0	18.5	14.2	14.2	14.2
137.5°	136.6	115.3	92.5	71.2	54.1	38.4	25.6	17.1	12.8	12.8	12.8
140°	142.3	118.1	93.9	69.7	51.2	37.0	24.2	15.7	11.4	11.4	11.4
142.5°	142.3	116.7	91.1	68.3	48.4	34.2	21.3	12.8	10.0	10.0	10.0
145°	136.6	111.0	86.8	64.0	44.1	29.9	18.5	11.4	8.5	8.5	8.5
147.5°	128.1	102.5	79.7	58.4	39.8	25.6	15.7	10.0	7.1	7.1	7.1
150°	113.9	91.1	69.7	49.8	34.2	21.3	12.8	8.5	5.7	5.7	5.7
152.5°	95.4	75.4	58.4	41.3	28.5	17.1	11.4	5.7	4.3	4.3	4.3
155°	75.4	59.8	45.5	32.7	21.3	12.8	8.5	5.7	2.8	2.8	2.8
157.5°	56.9	44.1	34.2	24.2	15.7	10.0	5.7	4.3	2.8	2.8	2.8
160°	39.8	31.3	22.8	15.7	10.0	7.1	4.3	2.8	1.4	1.4	1.4
162.5°	25.6	19.9	14.2	10.0	5.7	4.3	2.8	1.4	1.4	1.4	0.0
165°	12.8	10.0	7.1	4.3	2.8	1.4	1.4	1.4	0.0	0.0	0.0
167.5°	2.8	2.8	2.8	1.4	1.4	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)