

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: P691329

Luminaire Tested: **CRTK2-C015-D-U-T3-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691329
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-T3-7040-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 3358 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - G1

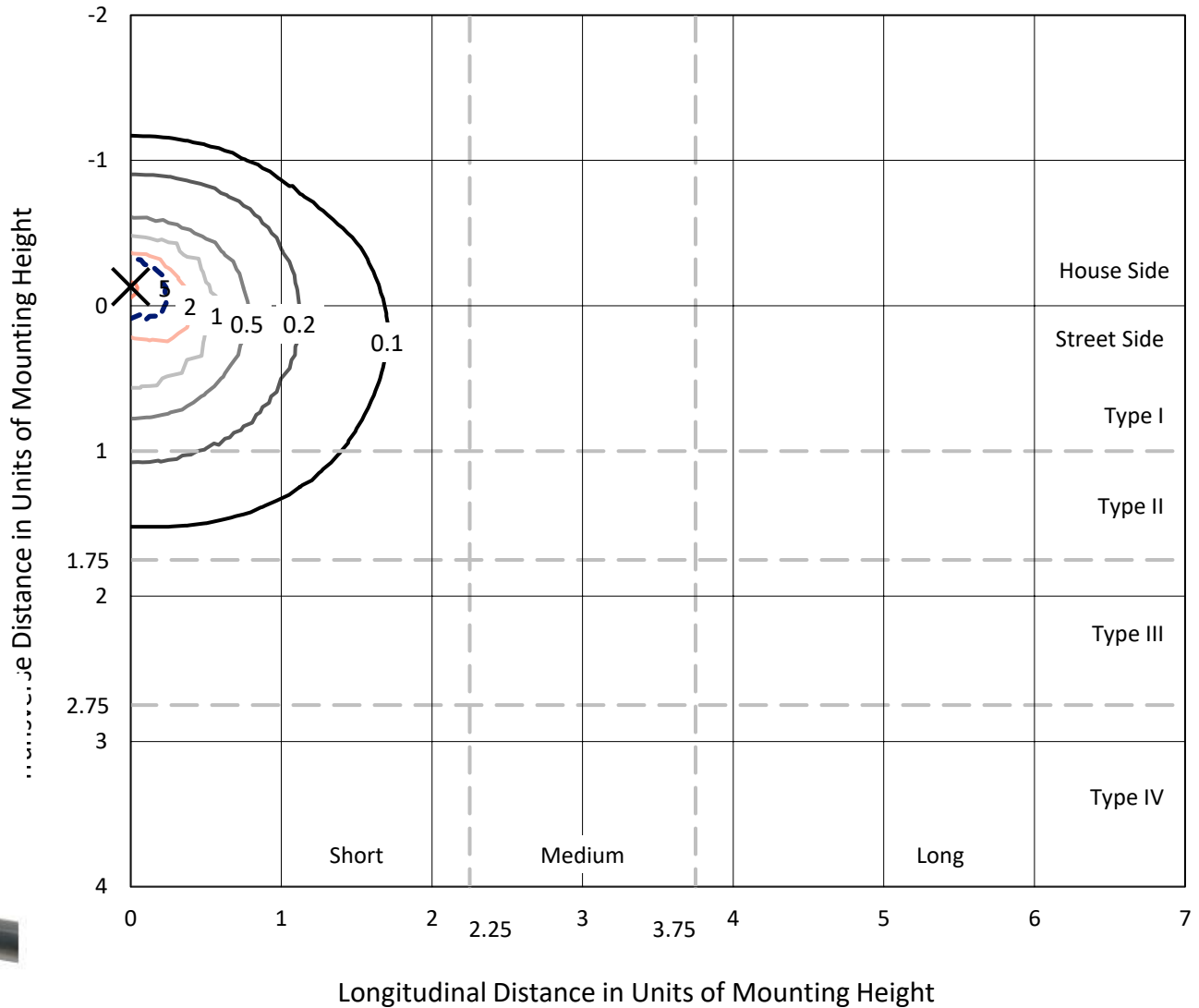
Input Watts (W): 29.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

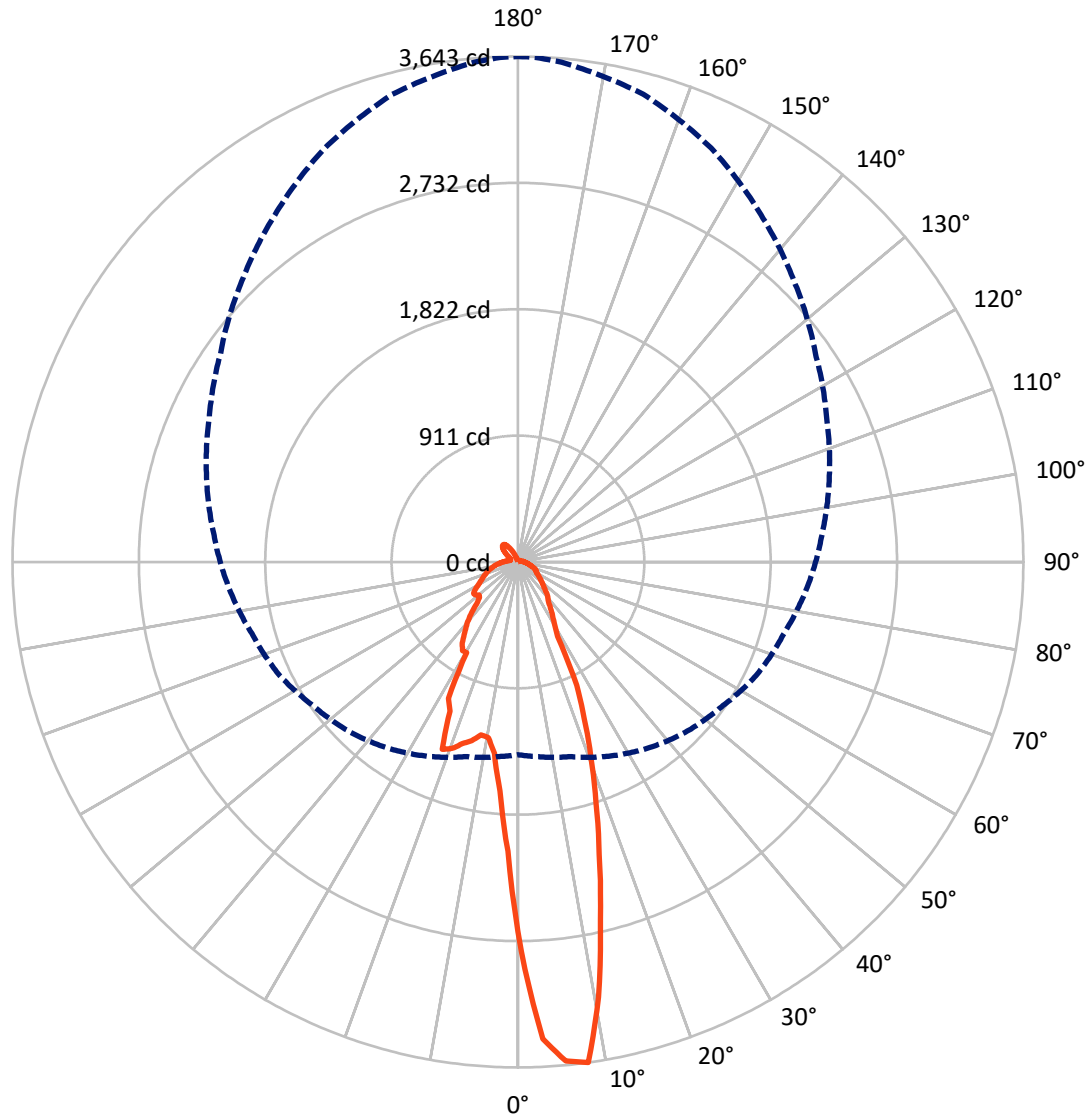
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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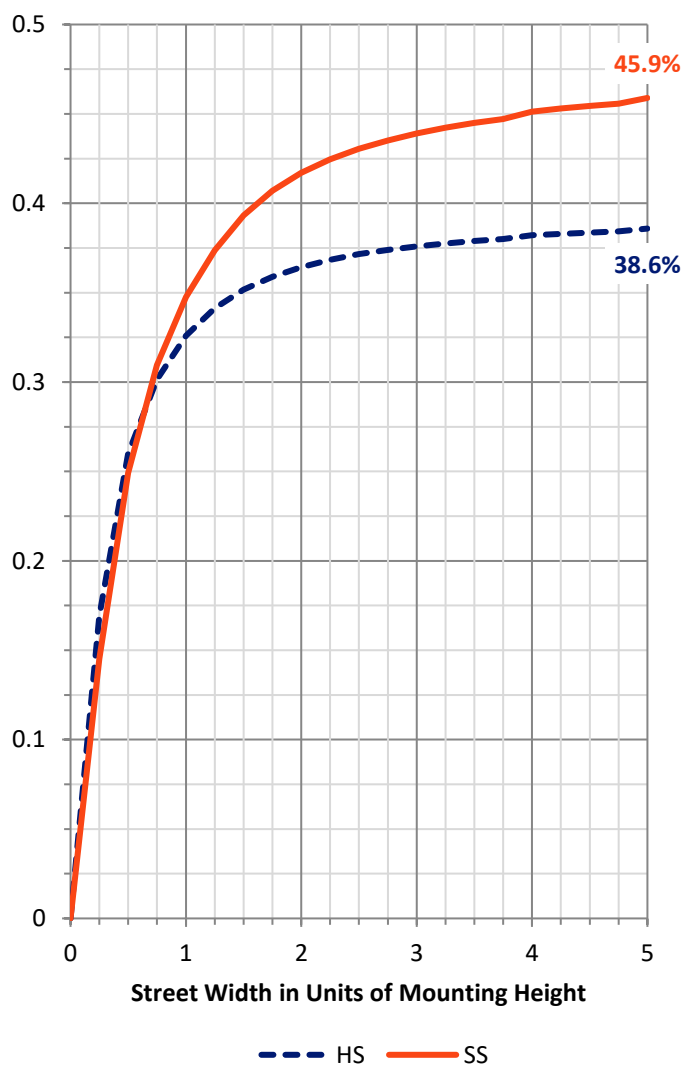
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1329.5	138.6	1468.1
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1585.4	304.5	1889.9
	% Fixture	47.2	9.1	56.3
Total	Lumens	2914.9	443.1	3358.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	6.7
10°-20°	481.3	14.3
20°-30°	531.5	15.8
30°-40°	385.5	11.5
40°-50°	324.8	9.7
50°-60°	331.5	9.9
60°-70°	282.6	8.4
70°-80°	210.6	6.3
80°-90°	142.2	4.2
90°-100°	85.0	2.5
100°-110°	48.9	1.5
110°-120°	45.7	1.4
120°-130°	66.6	2.0
130°-140°	90.4	2.7
140°-150°	73.6	2.2
150°-160°	29.4	0.9
160°-170°	3.6	0.1
170°-180°	0.0	0.0
0°-90°	2914.9	86.8
0°-180°	3358.0	100.0

Coefficient of Utilization



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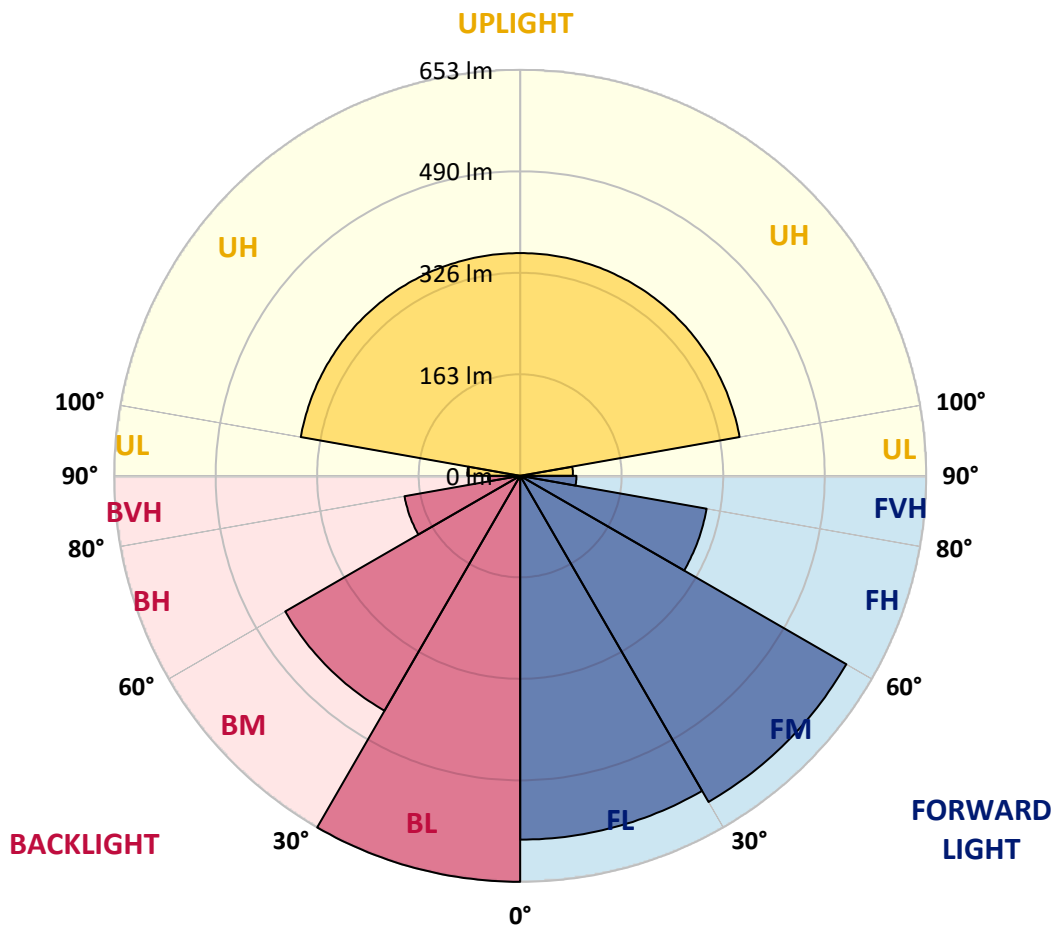
CATALOG NUMBER: CRTK2-C015-D-U-T3-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.0	17.4			
FM (30°-60°)	605.6	18.0			
FH (60°-80°)	304.4	9.1			G0/660
FVH (80°-90°)	90.4	2.7			G1/100
BL (0°-30°)	652.8	19.4	B2/1000		
BM (30°-60°)	436.2	13.0	B1/1000		
BH (60°-80°)	188.8	5.6	B1/500		G1/500
BVH (80°-90°)	51.7	1.5			G1/100
UL (90°-100°)	85.0	2.5		U3/500	
UH (100°-180°)	358.1	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°	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9
2.5°	2084.0	2132.3	2136.7	2189.5	2229.1	2265.7	2292.1	2368.3	2446.0	2519.2	2561.7
5°	1654.6	1678.0	1720.5	1777.7	1850.9	1908.1	1990.2	2097.2	2199.7	2328.7	2391.7
7.5°	1389.3	1406.9	1452.3	1544.7	1637.0	1724.9	1804.1	1906.6	1985.8	2092.8	2145.5
10°	1283.8	1294.1	1332.2	1396.6	1484.6	1557.8	1626.7	1704.4	1774.7	1872.9	1911.0
12.5°	1273.5	1277.9	1308.7	1354.1	1405.4	1465.5	1522.7	1588.6	1663.4	1741.0	1770.3
15°	1329.2	1326.3	1336.6	1362.9	1392.2	1439.1	1491.9	1552.0	1623.8	1680.9	1704.4
17.5°	1368.8	1367.3	1386.4	1398.1	1425.9	1453.8	1506.6	1553.4	1623.8	1669.2	1682.4
20°	1425.9	1428.9	1434.7	1456.7	1468.4	1487.5	1519.7	1547.6	1607.7	1634.1	1631.1
22.5°	1456.7	1455.3	1480.2	1531.5	1544.7	1554.9	1560.8	1572.5	1606.2	1604.7	1582.8
25°	1181.2	1184.1	1190.0	1234.0	1289.7	1380.5	1455.3	1572.5	1635.5	1612.1	1565.2
27.5°	1103.5	1094.7	1064.0	1039.1	964.3	914.5	867.6	847.1	857.3	874.9	923.3
30°	751.8	753.3	756.2	760.6	767.9	787.0	800.2	801.6	811.9	841.2	830.9
32.5°	753.3	754.7	750.3	754.7	751.8	759.1	757.7	751.8	760.6	787.0	776.7
35°	707.8	704.9	707.8	709.3	693.2	687.3	685.9	681.5	687.3	700.5	691.7
37.5°	637.5	636.0	649.2	656.6	643.4	643.4	640.4	634.6	639.0	650.7	639.0
40°	575.9	577.4	596.5	608.2	603.8	608.2	612.6	611.1	621.4	625.8	611.1
42.5°	508.5	505.6	524.7	533.4	524.7	527.6	526.1	527.6	548.1	556.9	546.6
45°	425.0	429.4	438.2	449.9	448.4	452.8	451.4	454.3	467.5	471.9	464.6
47.5°	378.1	381.0	391.3	404.5	411.8	419.1	419.1	420.6	429.4	430.9	423.5
50°	367.8	370.8	384.0	398.6	410.3	419.1	423.5	422.1	426.5	423.5	413.3
52.5°	385.4	385.4	405.9	423.5	438.2	454.3	460.2	454.3	454.3	442.6	426.5
55°	392.8	394.2	419.1	449.9	477.8	507.1	526.1	524.7	523.2	504.1	474.8
57.5°	369.3	373.7	398.6	433.8	471.9	518.8	546.6	551.0	551.0	526.1	493.9
60°	335.6	338.5	357.6	386.9	425.0	460.2	489.5	492.4	501.2	488.0	458.7
62.5°	307.8	310.7	326.8	348.8	376.6	398.6	407.4	407.4	411.8	407.4	386.9
65°	287.2	288.7	301.9	320.9	340.0	357.6	366.4	363.4	369.3	363.4	347.3
67.5°	268.2	268.2	279.9	294.6	312.2	332.7	338.5	341.5	347.3	340.0	325.3
70°	249.1	250.6	262.3	274.1	290.2	304.8	310.7	312.2	319.5	310.7	300.4
72.5°	233.0	233.0	243.3	255.0	266.7	281.4	285.8	288.7	293.1	284.3	275.5
75°	214.0	215.4	224.2	234.5	244.7	259.4	263.8	265.3	269.7	259.4	250.6
77.5°	196.4	197.8	205.2	214.0	224.2	235.9	240.3	243.3	244.7	235.9	227.2
80°	178.8	180.3	186.1	194.9	203.7	215.4	218.4	219.8	222.8	212.5	206.6
82.5°	162.7	162.7	167.1	174.4	183.2	193.4	197.8	199.3	200.8	192.0	186.1
85°	143.6	143.6	148.0	155.3	162.7	172.9	177.3	178.8	178.8	171.5	165.6
87.5°	127.5	127.5	130.4	136.3	142.2	152.4	156.8	159.7	158.3	152.4	146.6
90°	111.4	111.4	114.3	118.7	124.6	133.4	137.8	139.2	139.2	131.9	127.5
92.5°	96.7	96.7	99.7	104.1	108.4	115.8	120.2	123.1	123.1	117.2	112.8
95°	83.5	83.5	85.0	89.4	93.8	99.7	102.6	105.5	105.5	102.6	98.2
97.5°	71.8	71.8	73.3	76.2	79.1	83.5	86.5	89.4	89.4	87.9	85.0
100°	63.0	63.0	63.0	64.5	67.4	68.9	71.8	74.7	74.7	73.3	71.8
102.5°	57.2	57.2	57.2	57.2	57.2	58.6	58.6	60.1	60.1	60.1	58.6
105°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	52.8	51.3	49.8
107.5°	54.2	52.8	52.8	52.8	52.8	51.3	51.3	51.3	49.8	48.4	46.9
110°	54.2	54.2	54.2	54.2	52.8	51.3	51.3	49.8	48.4	46.9	45.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	57.2	57.2	57.2	55.7	54.2	54.2	52.8	51.3	49.8	46.9	45.4
115°	61.6	61.6	61.6	61.6	60.1	57.2	55.7	54.2	51.3	49.8	48.4
117.5°	68.9	68.9	68.9	68.9	65.9	64.5	61.6	60.1	57.2	54.2	52.8
120°	77.7	77.7	79.1	79.1	77.7	74.7	70.3	68.9	65.9	61.6	58.6
122.5°	90.9	89.4	92.3	92.3	92.3	89.4	83.5	80.6	77.7	71.8	68.9
125°	104.1	104.1	107.0	109.9	111.4	107.0	101.1	96.7	92.3	85.0	80.6
127.5°	118.7	118.7	124.6	130.4	133.4	129.0	121.6	117.2	111.4	101.1	95.3
130°	133.4	133.4	142.2	150.9	155.3	152.4	145.1	139.2	131.9	118.7	111.4
132.5°	146.6	146.6	156.8	168.5	174.4	172.9	165.6	159.7	153.9	137.8	127.5
135°	156.8	158.3	171.5	184.7	192.0	193.4	186.1	178.8	171.5	153.9	142.2
137.5°	162.7	165.6	178.8	194.9	202.2	206.6	202.2	194.9	186.1	167.1	153.9
140°	164.1	165.6	180.3	196.4	203.7	209.6	209.6	200.8	193.4	174.4	159.7
142.5°	159.7	161.2	175.9	190.5	197.8	205.2	206.6	199.3	192.0	174.4	159.7
145°	149.5	152.4	165.6	177.3	187.6	194.9	197.8	193.4	184.7	168.5	155.3
147.5°	136.3	137.8	149.5	159.7	170.0	178.8	183.2	178.8	171.5	156.8	145.1
150°	115.8	117.2	126.0	134.8	146.6	155.3	161.2	158.3	152.4	140.7	129.0
152.5°	93.8	93.8	101.1	108.4	118.7	127.5	133.4	131.9	127.5	117.2	108.4
155°	71.8	71.8	76.2	82.1	90.9	96.7	102.6	102.6	99.7	92.3	85.0
157.5°	51.3	51.3	55.7	60.1	65.9	71.8	76.2	76.2	74.7	68.9	64.5
160°	33.7	33.7	36.6	39.6	45.4	48.4	52.8	52.8	51.3	48.4	45.4
162.5°	17.6	17.6	20.5	22.0	26.4	29.3	32.2	33.7	33.7	30.8	29.3
165°	5.9	5.9	5.9	7.3	10.3	13.2	14.7	16.1	16.1	14.7	14.7
167.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.9	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°	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9	2807.9
2.5°	2607.2	2740.5	2854.8	2975.0	3108.4	3221.2	3335.5	3398.5	3452.8	3442.5	3442.5
5°	2453.3	2586.6	2725.9	2872.4	3052.7	3237.3	3413.2	3539.2	3605.2	3615.4	3614.0
7.5°	2198.3	2322.8	2454.7	2617.4	2828.5	3054.1	3293.0	3490.9	3615.4	3638.9	3643.3
10°	1946.2	2040.0	2151.4	2262.8	2451.8	2658.5	2872.4	3030.7	3152.3	3169.9	3190.4
12.5°	1795.3	1846.6	1918.4	1996.0	2119.1	2270.1	2446.0	2536.8	2614.5	2623.3	2642.3
15°	1717.6	1742.5	1760.1	1787.9	1861.2	1955.0	2035.6	2125.0	2157.2	2179.2	2189.5
17.5°	1686.8	1683.9	1666.3	1666.3	1672.2	1707.3	1758.6	1789.4	1809.9	1820.2	1823.1
20°	1623.8	1597.4	1562.2	1515.3	1490.4	1478.7	1491.9	1499.2	1493.4	1486.0	1499.2
22.5°	1557.8	1502.2	1439.1	1384.9	1320.4	1280.9	1242.8	1229.6	1213.4	1223.7	1223.7
25°	1537.3	1439.1	1338.0	1247.2	1150.4	1084.5	1014.1	989.2	964.3	984.8	984.8
27.5°	908.6	908.6	851.5	775.3	691.7	656.6	628.7	612.6	602.3	606.7	606.7
30°	813.4	775.3	740.1	691.7	627.2	584.7	548.1	526.1	515.9	512.9	515.9
32.5°	754.7	725.4	682.9	634.6	577.4	530.5	489.5	467.5	451.4	454.3	455.8
35°	675.6	644.8	608.2	562.8	514.4	470.4	433.8	411.8	397.2	397.2	398.6
37.5°	625.8	595.0	559.8	518.8	471.9	429.4	395.7	369.3	356.1	354.7	354.7
40°	595.0	564.2	532.0	490.9	447.0	403.0	369.3	345.9	329.7	329.7	331.2
42.5°	539.3	510.0	482.2	445.5	405.9	367.8	335.6	315.1	299.0	296.0	299.0
45°	454.3	438.2	416.2	391.3	357.6	326.8	297.5	279.9	266.7	266.7	265.3
47.5°	416.2	400.1	376.6	351.7	323.9	293.1	269.7	253.5	241.8	241.8	241.8
50°	401.6	384.0	354.7	326.8	294.6	268.2	247.7	231.6	222.8	222.8	221.3
52.5°	408.9	381.0	342.9	303.4	272.6	246.2	225.7	209.6	202.2	202.2	200.8
55°	448.4	398.6	342.9	294.6	257.9	228.6	208.1	190.5	183.2	183.2	183.2
57.5°	464.6	408.9	340.0	285.8	244.7	214.0	189.1	172.9	165.6	165.6	164.1
60°	435.3	388.4	325.3	274.1	234.5	203.7	180.3	164.1	155.3	155.3	153.9
62.5°	370.8	337.1	288.7	250.6	219.8	192.0	171.5	155.3	148.0	148.0	148.0
65°	332.7	303.4	265.3	231.6	203.7	180.3	161.2	148.0	140.7	140.7	140.7
67.5°	310.7	285.8	247.7	215.4	187.6	165.6	148.0	136.3	130.4	129.0	130.4
70°	287.2	260.9	225.7	194.9	170.0	149.5	133.4	121.6	115.8	115.8	115.8
72.5°	262.3	237.4	203.7	175.9	150.9	134.8	118.7	108.4	102.6	102.6	101.1
75°	238.9	214.0	181.7	155.3	134.8	118.7	105.5	96.7	90.9	90.9	90.9
77.5°	216.9	193.4	162.7	139.2	120.2	107.0	93.8	86.5	82.1	82.1	80.6
80°	196.4	174.4	145.1	124.6	107.0	95.3	83.5	77.7	73.3	73.3	73.3
82.5°	175.9	155.3	129.0	109.9	95.3	83.5	74.7	68.9	65.9	64.5	65.9
85°	156.8	137.8	114.3	96.7	83.5	73.3	65.9	60.1	57.2	57.2	57.2
87.5°	139.2	121.6	101.1	85.0	73.3	64.5	57.2	52.8	51.3	49.8	49.8
90°	120.2	104.1	86.5	73.3	63.0	55.7	48.4	45.4	42.5	42.5	42.5
92.5°	107.0	93.8	77.7	65.9	57.2	51.3	45.4	42.5	39.6	39.6	39.6
95°	93.8	82.1	68.9	60.1	52.8	46.9	42.5	39.6	38.1	38.1	38.1
97.5°	80.6	71.8	61.6	54.2	48.4	44.0	39.6	36.6	35.2	35.2	35.2
100°	67.4	61.6	54.2	48.4	44.0	39.6	35.2	33.7	32.2	32.2	32.2
102.5°	55.7	51.3	45.4	41.0	36.6	33.7	30.8	29.3	27.8	27.8	27.8
105°	48.4	45.4	41.0	36.6	33.7	30.8	27.8	24.9	24.9	24.9	24.9
107.5°	45.4	41.0	38.1	35.2	32.2	27.8	26.4	23.4	22.0	22.0	22.0
110°	44.0	41.0	38.1	33.7	30.8	27.8	24.9	22.0	20.5	20.5	20.5



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CATALOG NUMBER: CRTK2-C015-D-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	44.0	41.0	38.1	35.2	32.2	27.8	26.4	20.5	19.1	19.1	19.1
115°	46.9	44.0	39.6	36.6	32.2	29.3	26.4	20.5	19.1	19.1	19.1
117.5°	49.8	46.9	42.5	39.6	35.2	30.8	26.4	20.5	19.1	19.1	19.1
120°	57.2	52.8	46.9	42.5	38.1	32.2	27.8	20.5	17.6	19.1	19.1
122.5°	64.5	60.1	52.8	46.9	41.0	35.2	27.8	20.5	17.6	19.1	19.1
125°	76.2	68.9	60.1	52.8	44.0	36.6	29.3	20.5	16.1	17.6	19.1
127.5°	89.4	80.6	68.9	58.6	48.4	38.1	29.3	20.5	16.1	17.6	17.6
130°	104.1	92.3	77.7	63.0	51.3	39.6	29.3	20.5	16.1	17.6	17.6
132.5°	118.7	102.6	85.0	68.9	54.2	41.0	29.3	19.1	16.1	16.1	16.1
135°	130.4	111.4	90.9	71.8	55.7	41.0	27.8	19.1	14.7	14.7	14.7
137.5°	140.7	118.7	95.3	73.3	55.7	39.6	26.4	17.6	13.2	13.2	13.2
140°	146.6	121.6	96.7	71.8	52.8	38.1	24.9	16.1	11.7	11.7	11.7
142.5°	146.6	120.2	93.8	70.3	49.8	35.2	22.0	13.2	10.3	10.3	10.3
145°	140.7	114.3	89.4	65.9	45.4	30.8	19.1	11.7	8.8	8.8	8.8
147.5°	131.9	105.5	82.1	60.1	41.0	26.4	16.1	10.3	7.3	7.3	7.3
150°	117.2	93.8	71.8	51.3	35.2	22.0	13.2	8.8	5.9	5.9	5.9
152.5°	98.2	77.7	60.1	42.5	29.3	17.6	11.7	5.9	4.4	4.4	4.4
155°	77.7	61.6	46.9	33.7	22.0	13.2	8.8	5.9	2.9	2.9	2.9
157.5°	58.6	45.4	35.2	24.9	16.1	10.3	5.9	4.4	2.9	2.9	2.9
160°	41.0	32.2	23.4	16.1	10.3	7.3	4.4	2.9	1.5	1.5	1.5
162.5°	26.4	20.5	14.7	10.3	5.9	4.4	2.9	1.5	1.5	1.5	0.0
165°	13.2	10.3	7.3	4.4	2.9	1.5	1.5	1.5	0.0	0.0	0.0
167.5°	2.9	2.9	2.9	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)