

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: P691161

Luminaire Tested: **CRTK2-C013-D-U-T3-8027-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691161
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-C013-D-U-T3-8027-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K 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: 2012 lumens
Efficiency: N/A
Efficacy: 98.6 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



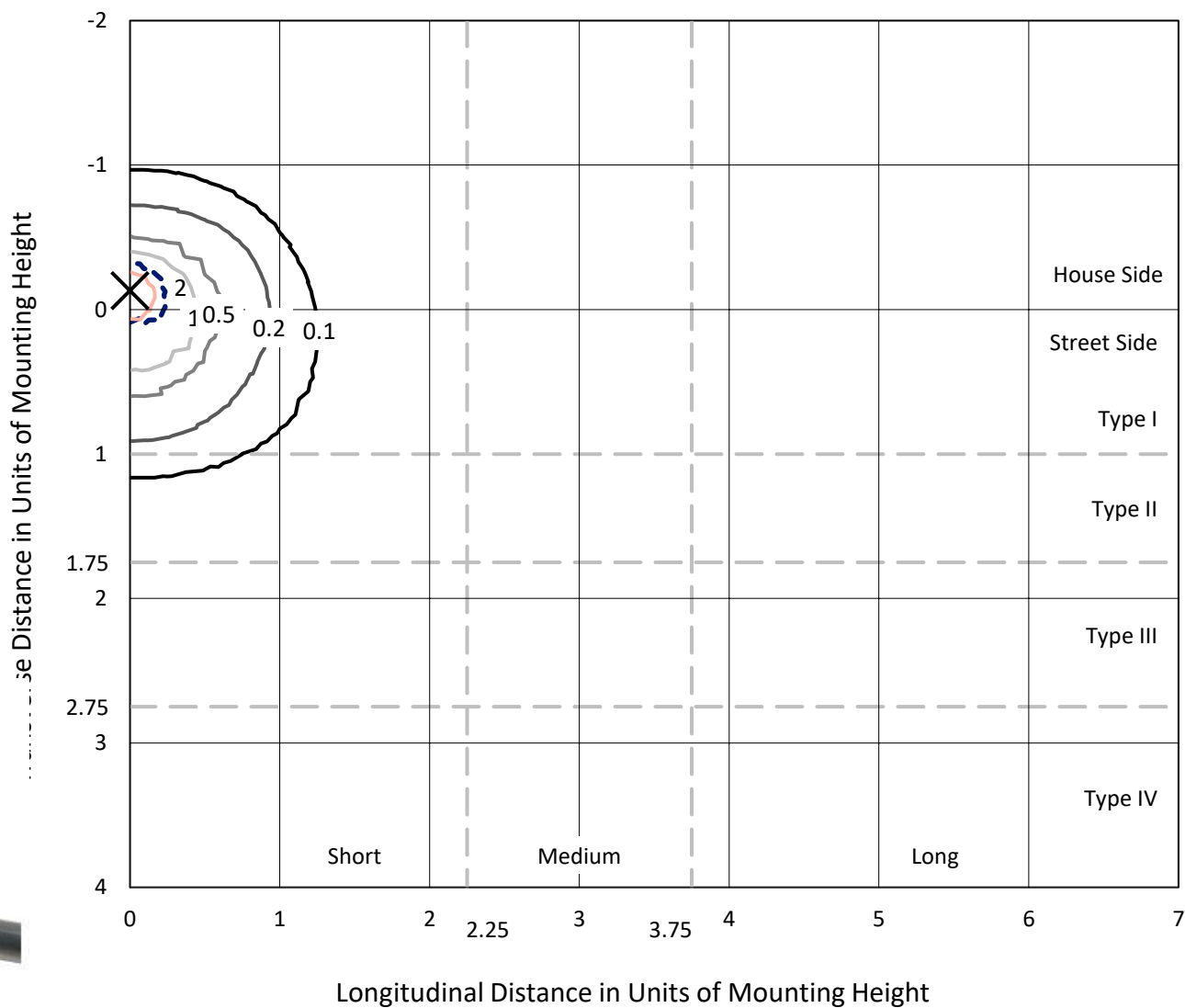
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

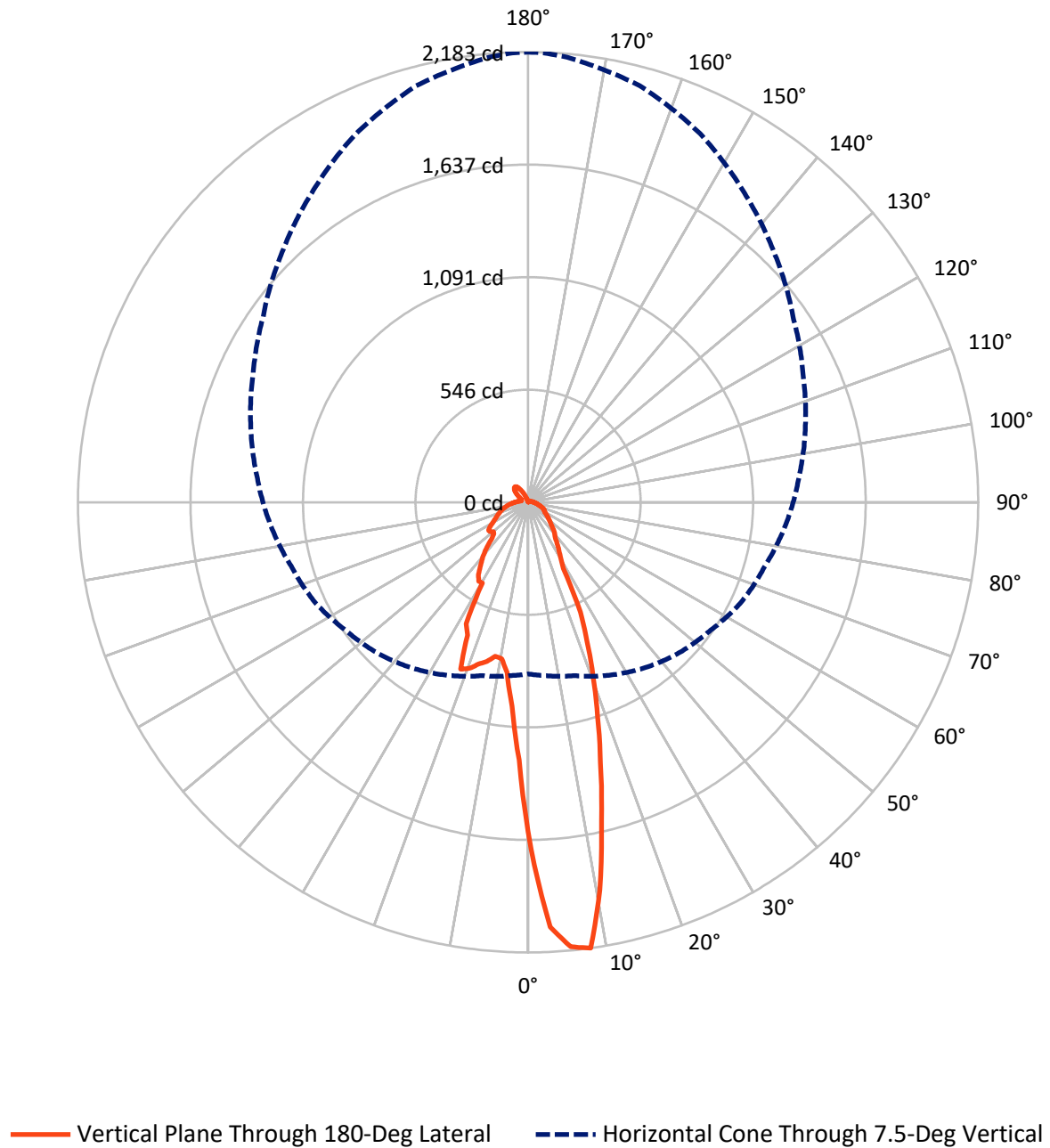


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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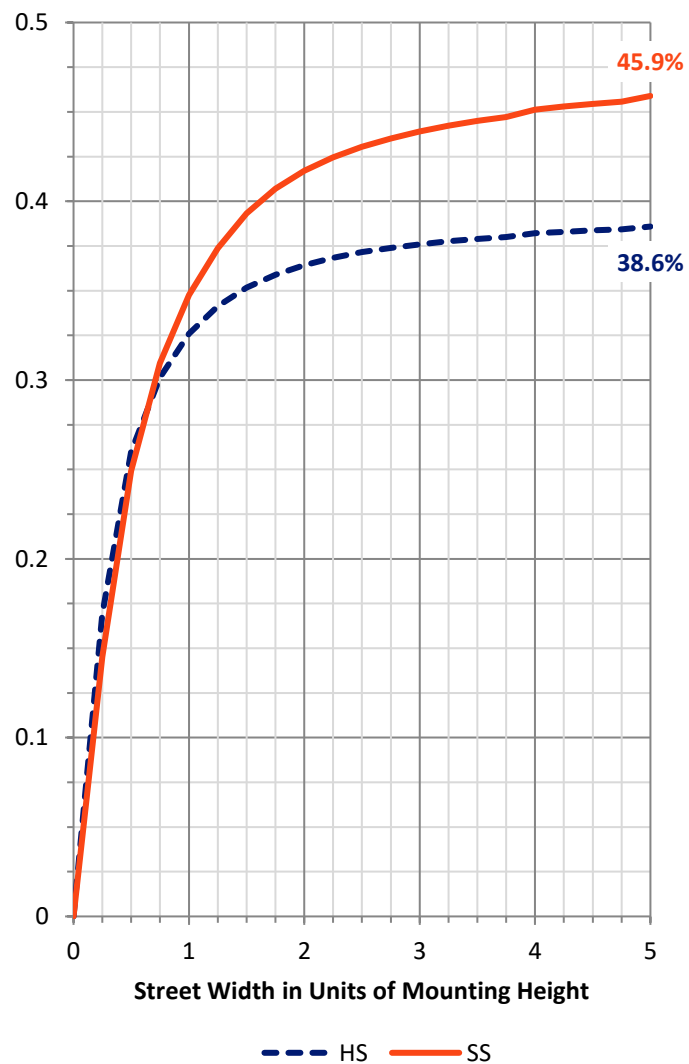
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	796.6	83.1	879.7
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	949.9	182.4	1132.3
	% Fixture	47.2	9.1	56.3
Total	Lumens	1746.5	265.5	2012.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	6.7
10°-20°	288.4	14.3
20°-30°	318.4	15.8
30°-40°	231.0	11.5
40°-50°	194.6	9.7
50°-60°	198.6	9.9
60°-70°	169.3	8.4
70°-80°	126.2	6.3
80°-90°	85.2	4.2
90°-100°	50.9	2.5
100°-110°	29.3	1.5
110°-120°	27.4	1.4
120°-130°	39.9	2.0
130°-140°	54.2	2.7
140°-150°	44.1	2.2
150°-160°	17.6	0.9
160°-170°	2.1	0.1
170°-180°	0.0	0.0
0°-90°	1746.5	86.8
0°-180°	2012.0	100.0

Coefficient of Utilization



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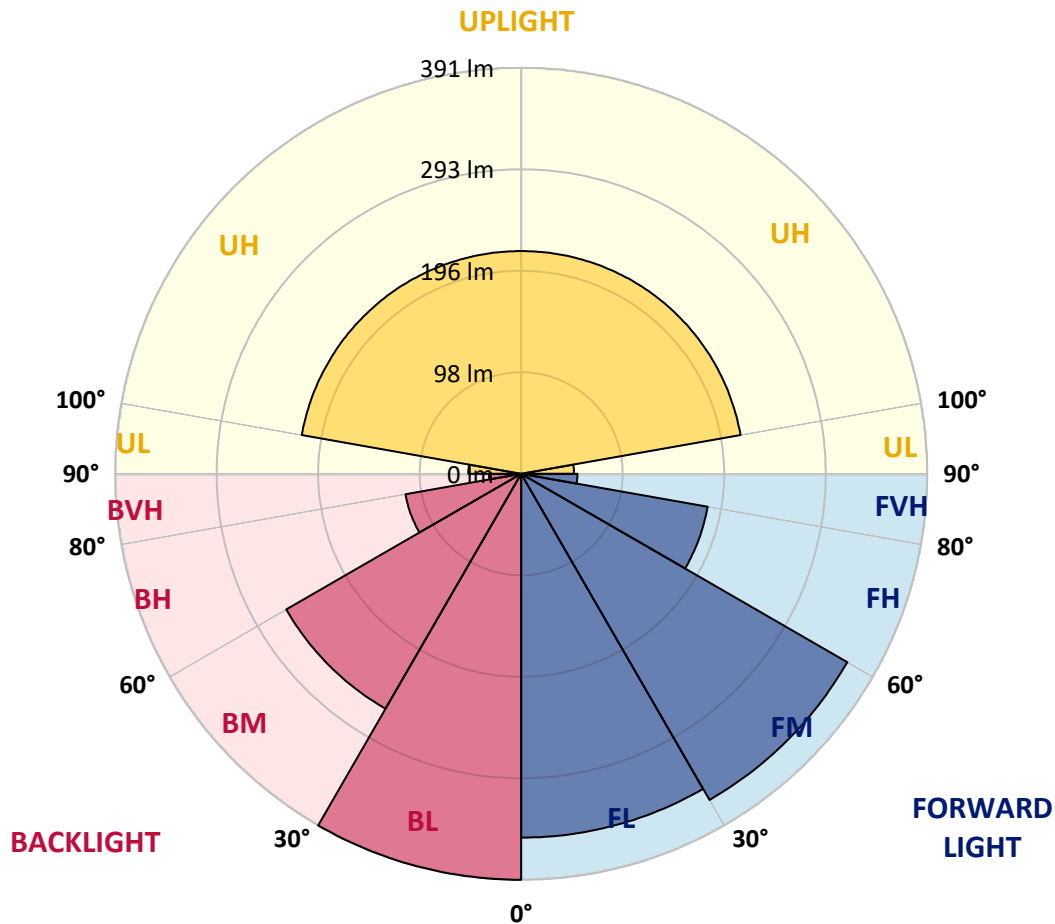
CATALOG NUMBER: CRTK2-C013-D-U-T3-8027-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	350.5	17.4			
FM	(30°-60°)	362.8	18.0			
FH	(60°-80°)	182.4	9.1			G0/660
FVH	(80°-90°)	54.2	2.7			G1/100
BL	(0°-30°)	391.1	19.4	B1/500		
BM	(30°-60°)	261.3	13.0	B1/1000		
BH	(60°-80°)	113.1	5.6	B1/500		G1/500
BVH	(80°-90°)	31.0	1.5			G1/100
UL	(90°-100°)	50.9	2.5		U3/500	
UH	(100°-180°)	214.6	10.7		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°	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4
2.5°	1248.6	1277.6	1280.3	1311.9	1335.6	1357.5	1373.3	1419.0	1465.5	1509.4	1534.9
5°	991.4	1005.4	1030.9	1065.1	1109.0	1143.3	1192.4	1256.5	1318.0	1395.3	1433.0
7.5°	832.4	843.0	870.2	925.5	980.8	1033.5	1080.9	1142.4	1189.8	1253.9	1285.5
10°	769.2	775.4	798.2	836.8	889.5	933.4	974.7	1021.2	1063.4	1122.2	1145.0
12.5°	763.1	765.7	784.1	811.4	842.1	878.1	912.3	951.8	996.6	1043.2	1060.7
15°	796.4	794.7	800.8	816.6	834.2	862.3	893.9	929.9	972.9	1007.2	1021.2
17.5°	820.1	819.3	830.7	837.7	854.4	871.1	902.7	930.8	972.9	1000.1	1008.0
20°	854.4	856.1	859.6	872.8	879.8	891.3	910.6	927.3	963.3	979.1	977.3
22.5°	872.8	871.9	886.9	917.6	925.5	931.7	935.2	942.2	962.4	961.5	948.3
25°	707.7	709.5	713.0	739.4	772.7	827.2	871.9	942.2	979.9	965.9	937.8
27.5°	661.2	655.9	637.5	622.6	577.8	547.9	519.8	507.5	513.7	524.2	553.2
30°	450.5	451.3	453.1	455.7	460.1	471.5	479.4	480.3	486.5	504.0	497.9
32.5°	451.3	452.2	449.6	452.2	450.5	454.9	454.0	450.5	455.7	471.5	465.4
35°	424.1	422.4	424.1	425.0	415.3	411.8	410.9	408.3	411.8	419.7	414.5
37.5°	382.0	381.1	389.0	393.4	385.5	385.5	383.7	380.2	382.8	389.9	382.8
40°	345.1	346.0	357.4	364.4	361.8	364.4	367.0	366.2	372.3	374.9	366.2
42.5°	304.7	302.9	314.4	319.6	314.4	316.1	315.2	316.1	328.4	333.7	327.5
45°	254.6	257.3	262.5	269.6	268.7	271.3	270.5	272.2	280.1	282.7	278.4
47.5°	226.5	228.3	234.4	242.4	246.7	251.1	251.1	252.0	257.3	258.2	253.8
50°	220.4	222.2	230.1	238.8	245.9	251.1	253.8	252.9	255.5	253.8	247.6
52.5°	230.9	230.9	243.2	253.8	262.5	272.2	275.7	272.2	272.2	265.2	255.5
55°	235.3	236.2	251.1	269.6	286.3	303.8	315.2	314.4	313.5	302.1	284.5
57.5°	221.3	223.9	238.8	259.9	282.7	310.8	327.5	330.2	330.2	315.2	295.9
60°	201.1	202.8	214.3	231.8	254.6	275.7	293.3	295.0	300.3	292.4	274.8
62.5°	184.4	186.2	195.8	209.0	225.7	238.8	244.1	244.1	246.7	244.1	231.8
65°	172.1	173.0	180.9	192.3	203.7	214.3	219.5	217.8	221.3	217.8	208.1
67.5°	160.7	160.7	167.7	176.5	187.0	199.3	202.8	204.6	208.1	203.7	194.9
70°	149.3	150.2	157.2	164.2	173.9	182.6	186.2	187.0	191.4	186.2	180.0
72.5°	139.6	139.6	145.8	152.8	159.8	168.6	171.2	173.0	175.6	170.3	165.1
75°	128.2	129.1	134.3	140.5	146.6	155.4	158.1	158.9	161.6	155.4	150.2
77.5°	117.7	118.5	122.9	128.2	134.3	141.4	144.0	145.8	146.6	141.4	136.1
80°	107.1	108.0	111.5	116.8	122.1	129.1	130.8	131.7	133.5	127.3	123.8
82.5°	97.5	97.5	100.1	104.5	109.8	115.9	118.5	119.4	120.3	115.0	111.5
85°	86.1	86.1	88.7	93.1	97.5	103.6	106.2	107.1	107.1	102.7	99.2
87.5°	76.4	76.4	78.1	81.7	85.2	91.3	94.0	95.7	94.8	91.3	87.8
90°	66.7	66.7	68.5	71.1	74.6	79.9	82.5	83.4	83.4	79.0	76.4
92.5°	58.0	58.0	59.7	62.3	65.0	69.4	72.0	73.8	73.8	70.2	67.6
95°	50.1	50.1	50.9	53.6	56.2	59.7	61.5	63.2	63.2	61.5	58.8
97.5°	43.0	43.0	43.9	45.7	47.4	50.1	51.8	53.6	53.6	52.7	50.9
100°	37.8	37.8	37.8	38.6	40.4	41.3	43.0	44.8	44.8	43.9	43.0
102.5°	34.2	34.2	34.2	34.2	34.2	35.1	35.1	36.0	36.0	36.0	35.1
105°	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	31.6	30.7	29.9
107.5°	32.5	31.6	31.6	31.6	31.6	30.7	30.7	30.7	29.9	29.0	28.1
110°	32.5	32.5	32.5	32.5	31.6	30.7	30.7	29.9	29.0	28.1	27.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	34.2	34.2	34.2	33.4	32.5	32.5	31.6	30.7	29.9	28.1	27.2
115°	36.9	36.9	36.9	36.9	36.0	34.2	33.4	32.5	30.7	29.9	29.0
117.5°	41.3	41.3	41.3	41.3	39.5	38.6	36.9	36.0	34.2	32.5	31.6
120°	46.5	46.5	47.4	47.4	46.5	44.8	42.1	41.3	39.5	36.9	35.1
122.5°	54.4	53.6	55.3	55.3	55.3	53.6	50.1	48.3	46.5	43.0	41.3
125°	62.3	62.3	64.1	65.9	66.7	64.1	60.6	58.0	55.3	50.9	48.3
127.5°	71.1	71.1	74.6	78.1	79.9	77.3	72.9	70.2	66.7	60.6	57.1
130°	79.9	79.9	85.2	90.4	93.1	91.3	86.9	83.4	79.0	71.1	66.7
132.5°	87.8	87.8	94.0	101.0	104.5	103.6	99.2	95.7	92.2	82.5	76.4
135°	94.0	94.8	102.7	110.6	115.0	115.9	111.5	107.1	102.7	92.2	85.2
137.5°	97.5	99.2	107.1	116.8	121.2	123.8	121.2	116.8	111.5	100.1	92.2
140°	98.3	99.2	108.0	117.7	122.1	125.6	125.6	120.3	115.9	104.5	95.7
142.5°	95.7	96.6	105.4	114.2	118.5	122.9	123.8	119.4	115.0	104.5	95.7
145°	89.6	91.3	99.2	106.2	112.4	116.8	118.5	115.9	110.6	101.0	93.1
147.5°	81.7	82.5	89.6	95.7	101.9	107.1	109.8	107.1	102.7	94.0	86.9
150°	69.4	70.2	75.5	80.8	87.8	93.1	96.6	94.8	91.3	84.3	77.3
152.5°	56.2	56.2	60.6	65.0	71.1	76.4	79.9	79.0	76.4	70.2	65.0
155°	43.0	43.0	45.7	49.2	54.4	58.0	61.5	61.5	59.7	55.3	50.9
157.5°	30.7	30.7	33.4	36.0	39.5	43.0	45.7	45.7	44.8	41.3	38.6
160°	20.2	20.2	22.0	23.7	27.2	29.0	31.6	31.6	30.7	29.0	27.2
162.5°	10.5	10.5	12.3	13.2	15.8	17.6	19.3	20.2	20.2	18.4	17.6
165°	3.5	3.5	3.5	4.4	6.1	7.9	8.8	9.7	9.7	8.8	8.8
167.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	2.6	2.6	2.6	2.6
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°	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4	1682.4
2.5°	1562.1	1642.0	1710.5	1782.5	1862.4	1930.0	1998.5	2036.3	2068.8	2062.6	2062.6
5°	1469.9	1549.8	1633.2	1721.1	1829.1	1939.7	2045.1	2120.6	2160.1	2166.2	2165.4
7.5°	1317.1	1391.8	1470.8	1568.3	1694.7	1829.9	1973.1	2091.6	2166.2	2180.3	2182.9
10°	1166.1	1222.3	1289.0	1355.8	1469.0	1592.9	1721.1	1815.9	1888.8	1899.3	1911.6
12.5°	1075.7	1106.4	1149.4	1196.0	1269.7	1360.2	1465.5	1520.0	1566.5	1571.8	1583.2
15°	1029.1	1044.0	1054.6	1071.3	1115.2	1171.4	1219.7	1273.2	1292.5	1305.7	1311.9
17.5°	1010.7	1008.9	998.4	998.4	1001.9	1023.0	1053.7	1072.1	1084.4	1090.6	1092.3
20°	972.9	957.1	936.0	907.9	893.0	886.0	893.9	898.3	894.8	890.4	898.3
22.5°	933.4	900.0	862.3	829.8	791.2	767.4	744.6	736.7	727.1	733.2	733.2
25°	921.1	862.3	801.7	747.3	689.3	649.8	607.6	592.7	577.8	590.1	590.1
27.5°	544.4	544.4	510.2	464.5	414.5	393.4	376.7	367.0	360.9	363.5	363.5
30°	487.3	464.5	443.4	414.5	375.8	350.4	328.4	315.2	309.1	307.3	309.1
32.5°	452.2	434.7	409.2	380.2	346.0	317.9	293.3	280.1	270.5	272.2	273.1
35°	404.8	386.4	364.4	337.2	308.2	281.9	259.9	246.7	238.0	238.0	238.8
37.5°	374.9	356.5	335.4	310.8	282.7	257.3	237.1	221.3	213.4	212.5	212.5
40°	356.5	338.1	318.7	294.2	267.8	241.5	221.3	207.2	197.6	197.6	198.4
42.5°	323.1	305.6	288.9	266.9	243.2	220.4	201.1	188.8	179.1	177.4	179.1
45°	272.2	262.5	249.4	234.4	214.3	195.8	178.3	167.7	159.8	159.8	158.9
47.5°	249.4	239.7	225.7	210.7	194.1	175.6	161.6	151.9	144.9	144.9	144.9
50°	240.6	230.1	212.5	195.8	176.5	160.7	148.4	138.7	133.5	133.5	132.6
52.5°	245.0	228.3	205.5	181.8	163.3	147.5	135.2	125.6	121.2	121.2	120.3
55°	268.7	238.8	205.5	176.5	154.5	137.0	124.7	114.2	109.8	109.8	109.8
57.5°	278.4	245.0	203.7	171.2	146.6	128.2	113.3	103.6	99.2	99.2	98.3
60°	260.8	232.7	194.9	164.2	140.5	122.1	108.0	98.3	93.1	93.1	92.2
62.5°	222.2	202.0	173.0	150.2	131.7	115.0	102.7	93.1	88.7	88.7	88.7
65°	199.3	181.8	158.9	138.7	122.1	108.0	96.6	88.7	84.3	84.3	84.3
67.5°	186.2	171.2	148.4	129.1	112.4	99.2	88.7	81.7	78.1	77.3	78.1
70°	172.1	156.3	135.2	116.8	101.9	89.6	79.9	72.9	69.4	69.4	69.4
72.5°	157.2	142.3	122.1	105.4	90.4	80.8	71.1	65.0	61.5	61.5	60.6
75°	143.1	128.2	108.9	93.1	80.8	71.1	63.2	58.0	54.4	54.4	54.4
77.5°	130.0	115.9	97.5	83.4	72.0	64.1	56.2	51.8	49.2	49.2	48.3
80°	117.7	104.5	86.9	74.6	64.1	57.1	50.1	46.5	43.9	43.9	43.9
82.5°	105.4	93.1	77.3	65.9	57.1	50.1	44.8	41.3	39.5	38.6	39.5
85°	94.0	82.5	68.5	58.0	50.1	43.9	39.5	36.0	34.2	34.2	34.2
87.5°	83.4	72.9	60.6	50.9	43.9	38.6	34.2	31.6	30.7	29.9	29.9
90°	72.0	62.3	51.8	43.9	37.8	33.4	29.0	27.2	25.5	25.5	25.5
92.5°	64.1	56.2	46.5	39.5	34.2	30.7	27.2	25.5	23.7	23.7	23.7
95°	56.2	49.2	41.3	36.0	31.6	28.1	25.5	23.7	22.8	22.8	22.8
97.5°	48.3	43.0	36.9	32.5	29.0	26.3	23.7	22.0	21.1	21.1	21.1
100°	40.4	36.9	32.5	29.0	26.3	23.7	21.1	20.2	19.3	19.3	19.3
102.5°	33.4	30.7	27.2	24.6	22.0	20.2	18.4	17.6	16.7	16.7	16.7
105°	29.0	27.2	24.6	22.0	20.2	18.4	16.7	14.9	14.9	14.9	14.9
107.5°	27.2	24.6	22.8	21.1	19.3	16.7	15.8	14.0	13.2	13.2	13.2
110°	26.3	24.6	22.8	20.2	18.4	16.7	14.9	13.2	12.3	12.3	12.3

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CATALOG NUMBER: CRTK2-C013-D-U-T3-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	26.3	24.6	22.8	21.1	19.3	16.7	15.8	12.3	11.4	11.4	11.4
115°	28.1	26.3	23.7	22.0	19.3	17.6	15.8	12.3	11.4	11.4	11.4
117.5°	29.9	28.1	25.5	23.7	21.1	18.4	15.8	12.3	11.4	11.4	11.4
120°	34.2	31.6	28.1	25.5	22.8	19.3	16.7	12.3	10.5	11.4	11.4
122.5°	38.6	36.0	31.6	28.1	24.6	21.1	16.7	12.3	10.5	11.4	11.4
125°	45.7	41.3	36.0	31.6	26.3	22.0	17.6	12.3	9.7	10.5	11.4
127.5°	53.6	48.3	41.3	35.1	29.0	22.8	17.6	12.3	9.7	10.5	10.5
130°	62.3	55.3	46.5	37.8	30.7	23.7	17.6	12.3	9.7	10.5	10.5
132.5°	71.1	61.5	50.9	41.3	32.5	24.6	17.6	11.4	9.7	9.7	9.7
135°	78.1	66.7	54.4	43.0	33.4	24.6	16.7	11.4	8.8	8.8	8.8
137.5°	84.3	71.1	57.1	43.9	33.4	23.7	15.8	10.5	7.9	7.9	7.9
140°	87.8	72.9	58.0	43.0	31.6	22.8	14.9	9.7	7.0	7.0	7.0
142.5°	87.8	72.0	56.2	42.1	29.9	21.1	13.2	7.9	6.1	6.1	6.1
145°	84.3	68.5	53.6	39.5	27.2	18.4	11.4	7.0	5.3	5.3	5.3
147.5°	79.0	63.2	49.2	36.0	24.6	15.8	9.7	6.1	4.4	4.4	4.4
150°	70.2	56.2	43.0	30.7	21.1	13.2	7.9	5.3	3.5	3.5	3.5
152.5°	58.8	46.5	36.0	25.5	17.6	10.5	7.0	3.5	2.6	2.6	2.6
155°	46.5	36.9	28.1	20.2	13.2	7.9	5.3	3.5	1.8	1.8	1.8
157.5°	35.1	27.2	21.1	14.9	9.7	6.1	3.5	2.6	1.8	1.8	1.8
160°	24.6	19.3	14.0	9.7	6.1	4.4	2.6	1.8	0.9	0.9	0.9
162.5°	15.8	12.3	8.8	6.1	3.5	2.6	1.8	0.9	0.9	0.9	0.0
165°	7.9	6.1	4.4	2.6	1.8	0.9	0.9	0.9	0.0	0.0	0.0
167.5°	1.8	1.8	1.8	0.9	0.9	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)