

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: P691941

Luminaire Tested: **CRTK2-C01HO-D-U-T2-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C01HO-D-U-T2-7040-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8534.9 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

Input Watts (W): 79
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

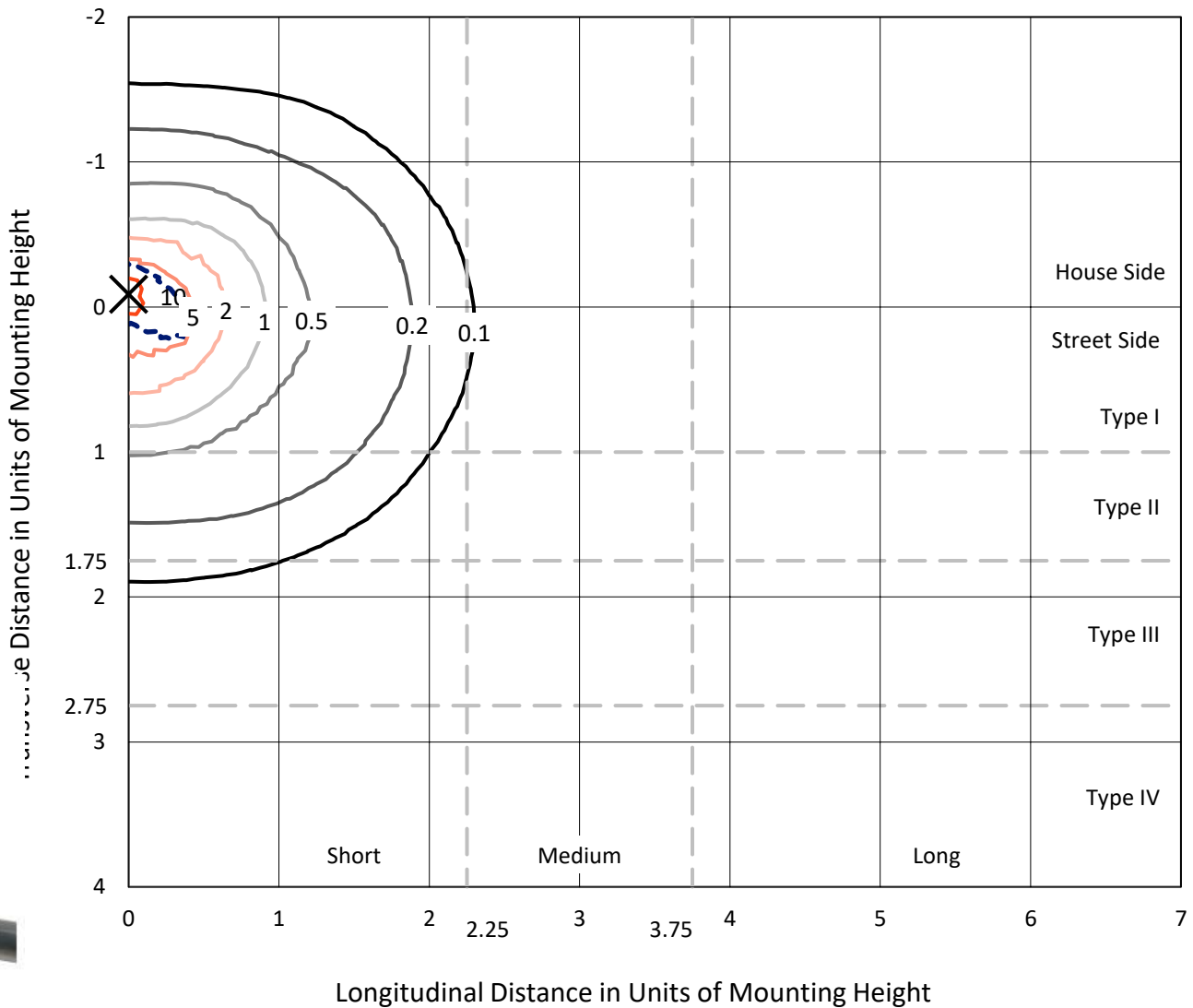


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

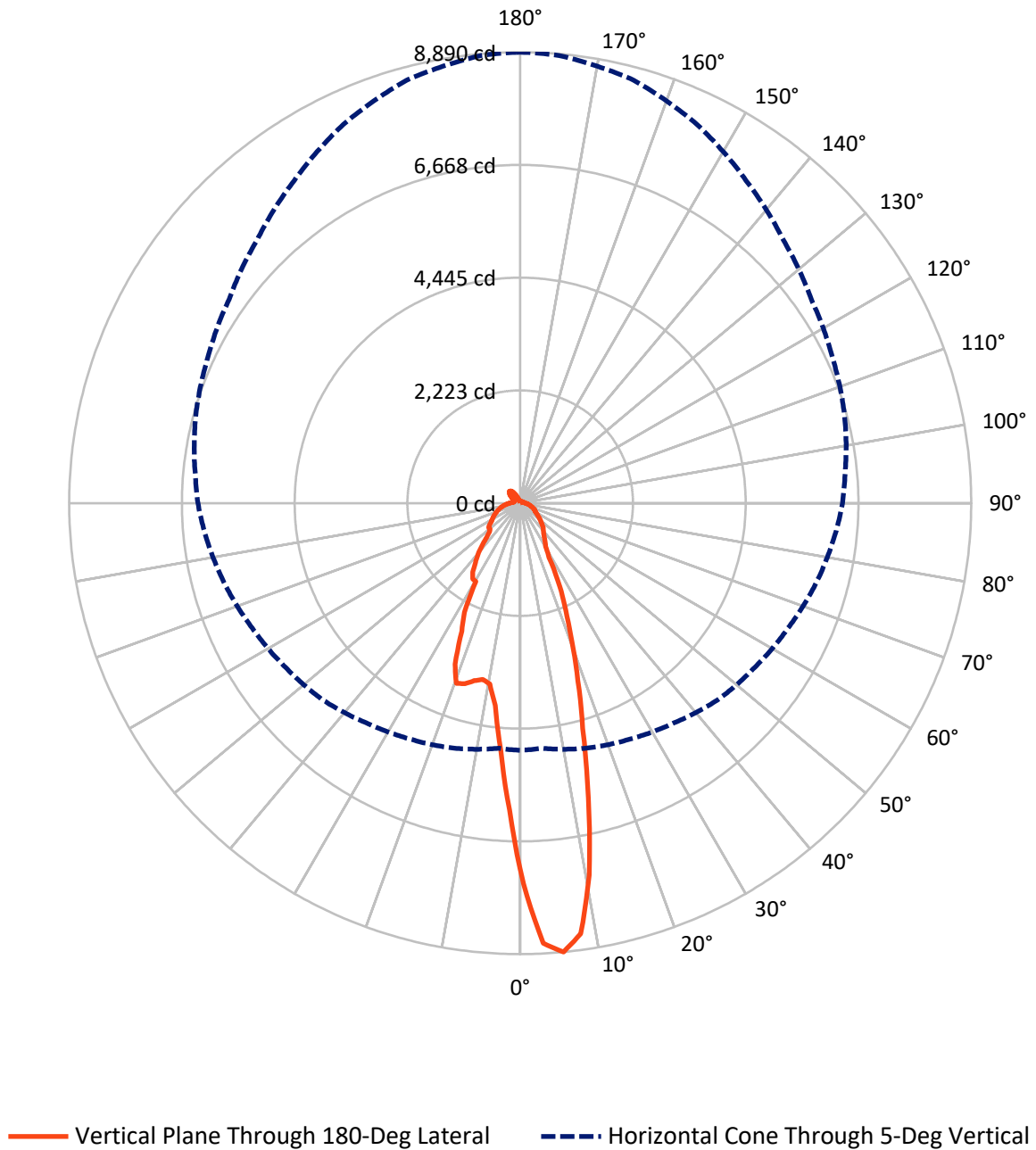


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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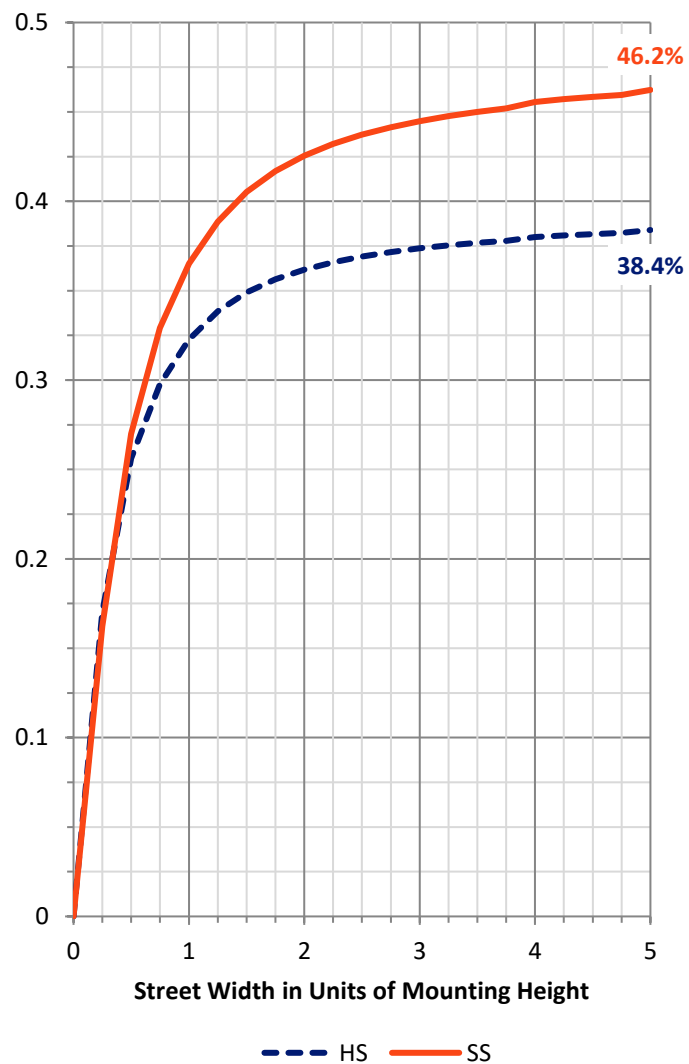
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3363.5	394.9	3758.4
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	4042.4	734.1	4776.5
	% Fixture	47.4	8.6	56.0
Total	Lumens	7406.0	1128.9	8534.9
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.8	6.8
10°-20°	1232.4	14.4
20°-30°	1341.2	15.7
30°-40°	981.8	11.5
40°-50°	825.4	9.7
50°-60°	838.2	9.8
60°-70°	712.5	8.3
70°-80°	531.7	6.2
80°-90°	361.9	4.2
90°-100°	217.3	2.5
100°-110°	124.6	1.5
110°-120°	114.7	1.3
120°-130°	166.6	2.0
130°-140°	229.2	2.7
140°-150°	189.7	2.2
150°-160°	77.2	0.9
160°-170°	9.6	0.1
170°-180°	0.0	0.0
0°-90°	7406.0	86.8
0°-180°	8534.9	100.0

Coefficient of Utilization



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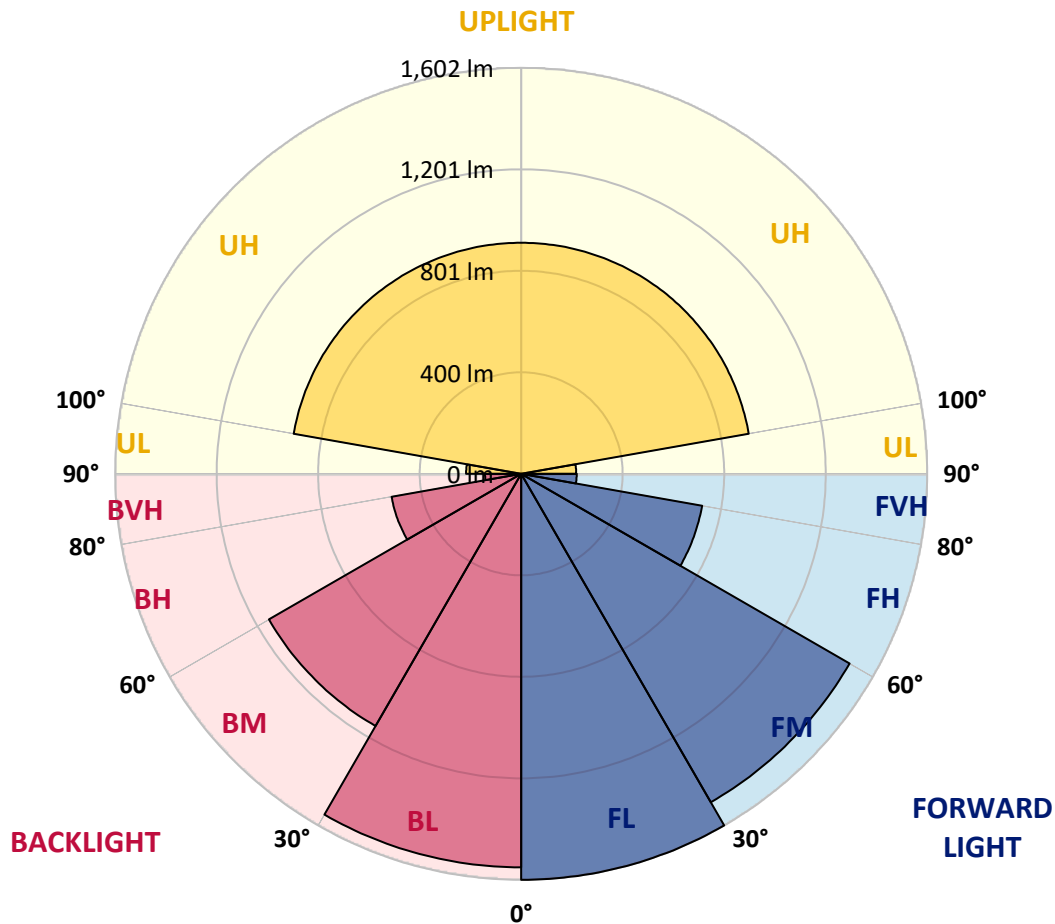
CATALOG NUMBER: CRTK2-C01HO-D-U-T2-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1601.9	18.8			
FM	(30°-60°)	1496.3	17.5			
FH	(60°-80°)	725.1	8.5			G1/1800
FVH	(80°-90°)	219.2	2.6			G2/225
BL	(0°-30°)	1552.5	18.2	B3/2500		
BM	(30°-60°)	1149.1	13.5	B2/2500		
BH	(60°-80°)	519.2	6.1	B2/1000		G2/1000
BVH	(80°-90°)	142.7	1.7			G2/225
UL	(90°-100°)	217.3	2.5		U3/500	
UH	(100°-180°)	911.6	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9
2.5°	6051.0	6039.6	6123.2	6142.2	6149.8	6237.2	6355.0	6434.8	6579.3	6719.9	6776.9
5°	4872.7	4849.9	5001.9	5131.2	5287.0	5492.2	5644.3	5826.7	6043.4	6252.4	6351.2
7.5°	4017.5	4047.9	4264.6	4530.6	4781.5	5024.7	5211.0	5366.8	5492.2	5625.3	5651.9
10°	3614.6	3641.2	3854.1	4108.7	4340.6	4587.6	4747.3	4880.3	4960.1	5058.9	5093.1
12.5°	3550.0	3569.0	3713.4	3892.1	4066.9	4291.2	4492.6	4640.8	4732.1	4811.9	4819.5
15°	3614.6	3622.2	3709.6	3827.5	3979.5	4165.7	4397.6	4564.8	4667.4	4701.7	4694.1
17.5°	3721.0	3721.0	3762.8	3861.7	4006.1	4184.7	4405.2	4576.2	4682.7	4697.9	4667.4
20°	3766.6	3774.2	3800.9	3911.1	4040.3	4203.7	4424.2	4568.6	4652.2	4610.4	4557.2
22.5°	3424.6	3409.4	3481.6	3713.4	4002.3	4295.0	4504.0	4667.4	4713.1	4572.4	4458.4
25°	2770.8	2778.4	2824.0	2938.1	3162.3	3432.2	3895.9	4393.8	4739.7	4686.5	4515.4
27.5°	2417.3	2394.5	2405.9	2424.9	2394.5	2337.5	2390.7	2379.3	2371.7	2508.6	2523.8
30°	1775.0	1778.8	1797.8	1832.0	1904.2	2010.7	2124.7	2189.3	2246.3	2352.7	2337.5
32.5°	1763.6	1767.4	1778.8	1809.2	1847.2	1919.4	1991.6	2018.3	2079.1	2166.5	2139.9
35°	1649.6	1638.2	1668.6	1695.2	1706.6	1737.0	1794.0	1832.0	1870.0	1930.8	1915.6
37.5°	1463.3	1467.1	1527.9	1569.8	1581.2	1623.0	1676.2	1706.6	1748.4	1801.6	1775.0
40°	1303.7	1307.5	1379.7	1425.3	1451.9	1508.9	1588.8	1626.8	1695.2	1737.0	1706.6
42.5°	1121.3	1136.5	1185.9	1239.1	1254.3	1288.5	1341.7	1391.1	1478.5	1535.5	1516.5
45°	935.0	942.6	976.8	1030.0	1052.8	1090.8	1140.3	1185.9	1254.3	1299.9	1296.1
47.5°	824.8	832.4	862.8	908.4	954.0	1003.4	1056.6	1102.2	1166.9	1204.9	1189.7
50°	779.2	786.8	824.8	878.0	935.0	999.6	1064.2	1113.7	1174.5	1197.3	1178.3
52.5°	786.8	786.8	840.0	908.4	988.2	1075.6	1155.5	1216.3	1265.7	1280.9	1239.1
55°	745.0	756.4	813.4	908.4	1030.0	1166.9	1303.7	1432.9	1505.1	1489.9	1410.1
57.5°	680.4	691.8	733.6	836.2	965.4	1128.9	1322.7	1482.3	1569.8	1581.2	1501.3
60°	642.3	649.9	688.0	767.8	881.8	1014.8	1189.7	1318.9	1417.7	1448.1	1391.1
62.5°	608.1	615.7	646.1	707.0	790.6	893.2	992.0	1075.6	1155.5	1185.9	1163.1
65°	570.1	573.9	604.3	657.5	726.0	813.4	897.0	957.8	1022.4	1041.4	1014.8
67.5°	532.1	535.9	562.5	611.9	676.6	756.4	821.0	889.4	954.0	969.2	950.2
70°	497.9	501.7	524.5	570.1	627.1	703.2	764.0	809.6	874.2	889.4	866.6
72.5°	463.7	467.5	490.3	532.1	585.3	653.7	707.0	752.6	805.8	809.6	790.6
75°	429.5	433.3	452.3	490.3	535.9	604.3	653.7	691.8	737.4	737.4	714.6
77.5°	391.5	399.1	414.3	448.5	490.3	554.9	600.5	638.5	676.6	672.8	649.9
80°	357.3	361.1	376.3	406.7	444.7	505.5	551.1	581.5	615.7	611.9	592.9
82.5°	319.3	323.1	334.5	364.9	399.1	456.1	501.7	532.1	562.5	554.9	535.9
85°	281.3	285.1	300.3	323.1	357.3	410.5	452.3	482.7	505.5	497.9	482.7
87.5°	250.9	250.9	262.3	285.1	315.5	364.9	402.9	433.3	452.3	448.5	433.3
90°	216.6	220.4	228.1	247.1	273.7	315.5	353.5	380.1	399.1	391.5	376.3
92.5°	190.0	190.0	197.6	216.6	239.5	277.5	311.7	334.5	349.7	345.9	334.5
95°	163.4	167.2	171.0	186.2	205.2	235.7	266.1	288.9	304.1	300.3	292.7
97.5°	144.4	148.2	152.0	159.6	178.6	197.6	224.3	243.3	258.5	254.7	247.1
100°	133.0	133.0	133.0	140.6	152.0	167.2	186.2	201.4	209.0	212.8	205.2
102.5°	121.6	121.6	125.4	125.4	133.0	140.6	152.0	163.4	167.2	167.2	167.2
105°	117.8	117.8	121.6	121.6	125.4	129.2	136.8	140.6	144.4	144.4	140.6
107.5°	117.8	117.8	117.8	117.8	121.6	125.4	129.2	133.0	133.0	133.0	129.2
110°	121.6	121.6	121.6	121.6	121.6	125.4	125.4	129.2	129.2	125.4	125.4

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CATALOG NUMBER: CRTK2-C01HO-D-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	125.4	125.4	125.4	125.4	125.4	129.2	129.2	129.2	129.2	125.4	125.4
115°	133.0	133.0	133.0	136.8	136.8	136.8	136.8	136.8	136.8	133.0	129.2
117.5°	148.2	148.2	148.2	148.2	152.0	152.0	152.0	152.0	152.0	144.4	144.4
120°	167.2	163.4	167.2	171.0	174.8	174.8	174.8	174.8	174.8	167.2	163.4
122.5°	186.2	186.2	190.0	197.6	205.2	209.0	205.2	205.2	205.2	193.8	190.0
125°	209.0	209.0	220.4	235.7	247.1	250.9	247.1	247.1	247.1	235.7	228.1
127.5°	235.7	235.7	250.9	273.7	292.7	304.1	300.3	300.3	300.3	281.3	269.9
130°	262.3	262.3	285.1	315.5	345.9	353.5	357.3	361.1	361.1	338.3	323.1
132.5°	281.3	285.1	311.7	353.5	391.5	402.9	414.3	418.1	418.1	391.5	368.7
135°	300.3	304.1	338.3	387.7	429.5	456.1	467.5	471.3	475.1	444.7	418.1
137.5°	311.7	315.5	353.5	410.5	452.3	486.5	513.1	520.7	520.7	486.5	452.3
140°	311.7	315.5	357.3	410.5	456.1	497.9	528.3	543.5	543.5	509.3	478.9
142.5°	304.1	311.7	349.7	402.9	448.5	490.3	524.5	539.7	539.7	509.3	478.9
145°	288.9	292.7	330.7	376.3	421.9	471.3	509.3	524.5	524.5	494.1	463.7
147.5°	262.3	266.1	296.5	338.3	383.9	433.3	471.3	490.3	486.5	459.9	433.3
150°	228.1	228.1	254.7	288.9	334.5	380.1	418.1	437.1	437.1	410.5	387.7
152.5°	186.2	186.2	205.2	231.9	269.9	315.5	345.9	364.9	364.9	345.9	326.9
155°	144.4	144.4	159.6	178.6	209.0	243.3	266.1	285.1	285.1	269.9	254.7
157.5°	102.6	102.6	117.8	133.0	155.8	182.4	201.4	212.8	216.6	201.4	193.8
160°	68.4	68.4	76.0	87.4	106.4	125.4	136.8	148.2	152.0	140.6	136.8
162.5°	38.0	38.0	41.8	53.2	64.6	76.0	87.4	95.0	95.0	91.2	87.4
165°	11.4	11.4	15.2	19.0	26.6	34.2	38.0	41.8	45.6	45.6	41.8
167.5°	0.0	0.0	3.8	3.8	3.8	3.8	7.6	7.6	11.4	11.4	11.4
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°	179°	180°
0°	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9	7502.9
2.5°	6894.7	7107.6	7339.4	7563.7	7837.4	8122.4	8384.7	8563.3	8658.3	8688.8	8688.8
5°	6427.2	6621.1	6792.1	7005.0	7335.6	7765.1	8240.3	8635.5	8859.8	8886.4	8890.2
7.5°	5697.5	5857.1	6035.8	6225.8	6518.5	6902.4	7529.5	8168.0	8532.9	8601.3	8574.7
10°	5100.7	5199.6	5306.0	5378.2	5583.5	5868.5	6294.2	6921.4	7369.9	7423.1	7461.1
12.5°	4823.3	4838.5	4808.1	4823.3	4891.7	5024.7	5233.8	5594.9	5887.5	5936.9	5963.5
15°	4682.7	4606.6	4485.0	4371.0	4310.2	4321.6	4367.2	4515.4	4564.8	4648.4	4610.4
17.5°	4618.0	4447.0	4257.0	4036.5	3899.7	3759.0	3683.0	3656.4	3637.4	3641.2	3675.4
20°	4454.6	4260.8	3956.7	3667.8	3447.4	3253.5	3090.1	2972.3	2907.7	2877.2	2900.1
22.5°	4283.6	3983.3	3626.0	3314.3	2998.9	2751.8	2565.6	2394.5	2299.5	2326.1	2295.7
25°	4287.4	3838.9	3413.2	3002.7	2706.2	2379.3	2082.9	1904.2	1748.4	1778.8	1820.6
27.5°	2702.4	2584.6	2280.5	2041.1	1744.6	1581.2	1432.9	1307.5	1220.1	1223.9	1212.5
30°	2291.9	2170.3	2018.3	1828.2	1604.0	1413.9	1242.9	1098.4	1014.8	992.0	988.2
32.5°	2117.1	2014.5	1873.8	1687.6	1482.3	1292.3	1121.3	988.2	904.6	900.8	900.8
35°	1885.2	1790.2	1672.4	1512.7	1337.9	1163.1	1003.4	889.4	821.0	821.0	817.2
37.5°	1740.8	1657.2	1543.1	1394.9	1239.1	1064.2	923.6	821.0	748.8	745.0	748.8
40°	1664.8	1577.4	1467.1	1326.5	1170.7	1003.4	870.4	764.0	710.8	707.0	703.2
42.5°	1512.7	1444.3	1349.3	1220.1	1083.2	935.0	809.6	714.6	669.0	665.1	669.0
45°	1284.7	1235.3	1170.7	1075.6	961.6	836.2	726.0	653.7	608.1	608.1	608.1
47.5°	1178.3	1132.7	1060.4	965.4	866.6	748.8	657.5	596.7	554.9	554.9	554.9
50°	1151.7	1094.6	999.6	893.2	786.8	684.2	600.5	539.7	509.3	505.5	509.3
52.5°	1189.7	1102.2	973.0	847.6	729.8	630.9	551.1	494.1	463.7	463.7	463.7
55°	1326.5	1166.9	995.8	836.2	695.6	585.3	505.5	448.5	418.1	414.3	418.1
57.5°	1417.7	1216.3	1003.4	824.8	672.8	554.9	467.5	406.7	376.3	372.5	376.3
60°	1337.9	1174.5	969.2	794.4	653.7	532.1	440.9	380.1	349.7	345.9	345.9
62.5°	1109.8	1014.8	866.6	718.4	604.3	497.9	414.3	357.3	326.9	323.1	326.9
65°	984.4	900.8	771.6	653.7	554.9	463.7	391.5	342.1	311.7	311.7	311.7
67.5°	916.0	840.0	718.4	604.3	513.1	429.5	361.1	315.5	288.9	288.9	288.9
70°	836.2	760.2	649.9	547.3	463.7	391.5	330.7	285.1	262.3	258.5	262.3
72.5°	767.8	691.8	589.1	494.1	418.1	353.5	300.3	258.5	239.5	235.7	239.5
75°	691.8	619.5	520.7	437.1	372.5	315.5	269.9	231.9	216.6	212.8	212.8
77.5°	627.1	558.7	467.5	391.5	334.5	281.3	239.5	212.8	197.6	193.8	193.8
80°	570.1	505.5	418.1	349.7	296.5	250.9	216.6	190.0	174.8	174.8	174.8
82.5°	509.3	452.3	372.5	307.9	262.3	224.3	190.0	167.2	155.8	155.8	155.8
85°	459.9	402.9	326.9	273.7	228.1	193.8	167.2	148.2	136.8	136.8	136.8
87.5°	406.7	357.3	288.9	239.5	201.4	171.0	144.4	125.4	121.6	117.8	117.8
90°	353.5	307.9	247.1	205.2	171.0	144.4	121.6	106.4	102.6	98.8	98.8
92.5°	315.5	273.7	224.3	186.2	155.8	129.2	114.0	98.8	95.0	95.0	91.2
95°	273.7	239.5	197.6	167.2	140.6	121.6	106.4	95.0	91.2	91.2	87.4
97.5°	235.7	205.2	174.8	152.0	129.2	114.0	98.8	91.2	83.6	83.6	83.6
100°	197.6	174.8	152.0	129.2	117.8	102.6	91.2	83.6	79.8	76.0	76.0
102.5°	159.6	144.4	125.4	114.0	98.8	87.4	79.8	72.2	68.4	68.4	68.4
105°	136.8	125.4	114.0	102.6	91.2	79.8	72.2	64.6	60.8	60.8	60.8
107.5°	125.4	117.8	106.4	95.0	87.4	76.0	68.4	57.0	53.2	57.0	57.0
110°	121.6	114.0	102.6	95.0	83.6	76.0	68.4	53.2	49.4	53.2	53.2

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	121.6	114.0	106.4	95.0	87.4	76.0	68.4	53.2	49.4	49.4	49.4
115°	125.4	121.6	110.2	102.6	91.2	79.8	68.4	53.2	49.4	49.4	49.4
117.5°	140.6	133.0	121.6	110.2	98.8	83.6	72.2	53.2	49.4	49.4	49.4
120°	155.8	148.2	136.8	121.6	106.4	91.2	76.0	53.2	45.6	49.4	49.4
122.5°	182.4	171.0	155.8	136.8	117.8	98.8	76.0	57.0	41.8	49.4	49.4
125°	216.6	201.4	178.6	152.0	129.2	106.4	79.8	57.0	45.6	49.4	49.4
127.5°	254.7	235.7	205.2	171.0	140.6	110.2	83.6	57.0	45.6	45.6	49.4
130°	304.1	273.7	231.9	190.0	152.0	117.8	83.6	57.0	45.6	45.6	45.6
132.5°	345.9	307.9	254.7	205.2	159.6	121.6	83.6	57.0	41.8	41.8	41.8
135°	387.7	338.3	273.7	216.6	167.2	121.6	83.6	53.2	41.8	41.8	41.8
137.5°	421.9	357.3	288.9	220.4	167.2	117.8	79.8	49.4	38.0	38.0	38.0
140°	440.9	368.7	292.7	220.4	159.6	114.0	72.2	45.6	34.2	34.2	34.2
142.5°	440.9	364.9	288.9	212.8	152.0	106.4	64.6	38.0	30.4	30.4	30.4
145°	425.7	349.7	273.7	201.4	140.6	95.0	57.0	34.2	22.8	22.8	26.6
147.5°	399.1	323.1	250.9	182.4	125.4	79.8	49.4	26.6	19.0	19.0	19.0
150°	353.5	285.1	216.6	159.6	106.4	68.4	41.8	22.8	15.2	15.2	15.2
152.5°	296.5	235.7	182.4	133.0	87.4	53.2	30.4	19.0	11.4	11.4	11.4
155°	235.7	186.2	144.4	102.6	64.6	41.8	22.8	15.2	11.4	11.4	11.4
157.5°	174.8	140.6	106.4	76.0	49.4	30.4	19.0	11.4	7.6	7.6	7.6
160°	121.6	98.8	72.2	49.4	30.4	19.0	11.4	7.6	3.8	3.8	3.8
162.5°	79.8	60.8	45.6	30.4	19.0	11.4	7.6	3.8	3.8	3.8	3.8
165°	38.0	30.4	22.8	15.2	7.6	7.6	3.8	3.8	0.0	0.0	0.0
167.5°	11.4	7.6	3.8	3.8	3.8	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)