

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: P691973

Luminaire Tested: **CRTK2-C01HO-D-U-T3-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691973
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-C01HO-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: 8706.1 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G3

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

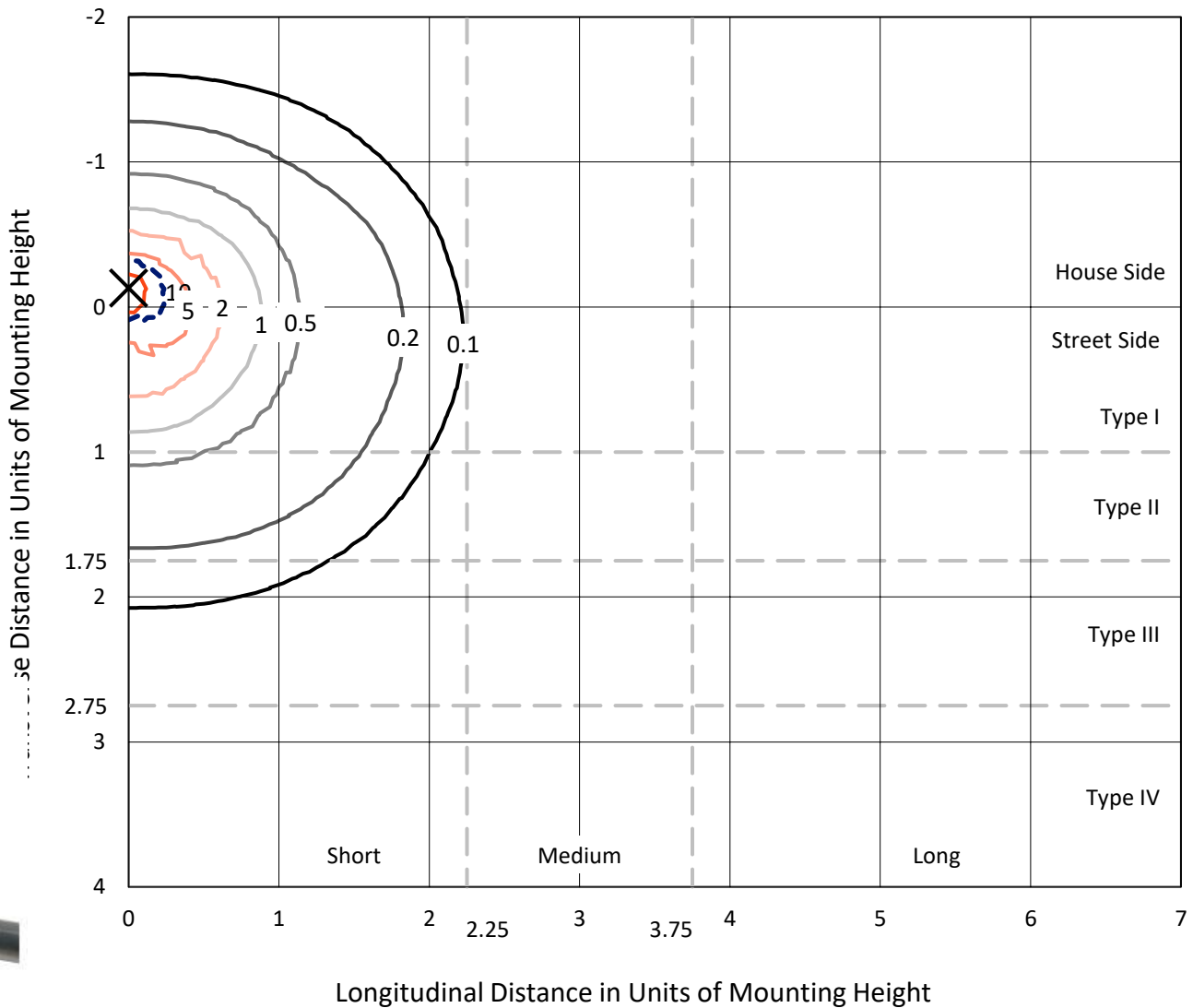


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

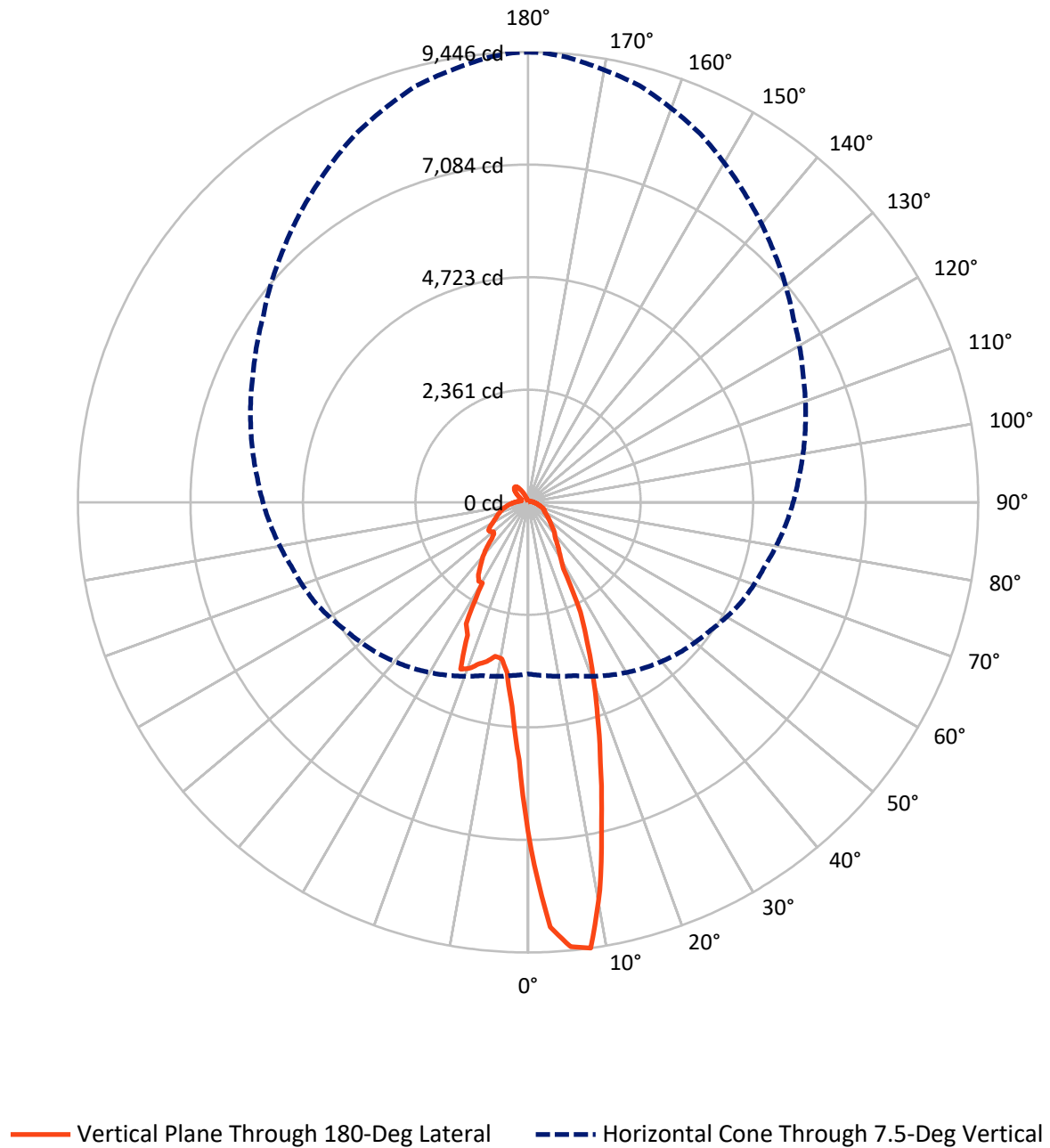


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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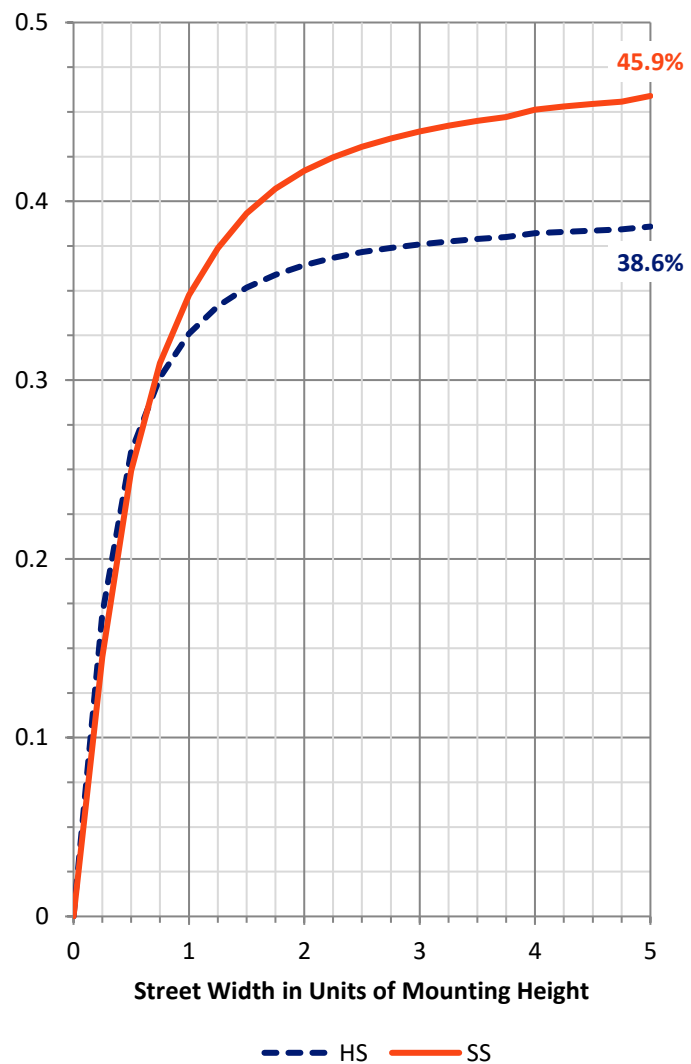
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3446.9	359.5	3806.4
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	4110.3	789.4	4899.7
	% Fixture	47.2	9.1	56.3
Total	Lumens	7557.2	1148.9	8706.1
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.3	6.7
10°-20°	1247.8	14.3
20°-30°	1377.9	15.8
30°-40°	999.4	11.5
40°-50°	842.0	9.7
50°-60°	859.5	9.9
60°-70°	732.6	8.4
70°-80°	546.1	6.3
80°-90°	368.6	4.2
90°-100°	220.4	2.5
100°-110°	126.7	1.5
110°-120°	118.5	1.4
120°-130°	172.6	2.0
130°-140°	234.5	2.7
140°-150°	190.9	2.2
150°-160°	76.1	0.9
160°-170°	9.3	0.1
170°-180°	0.0	0.0
0°-90°	7557.2	86.8
0°-180°	8706.1	100.0

Coefficient of Utilization



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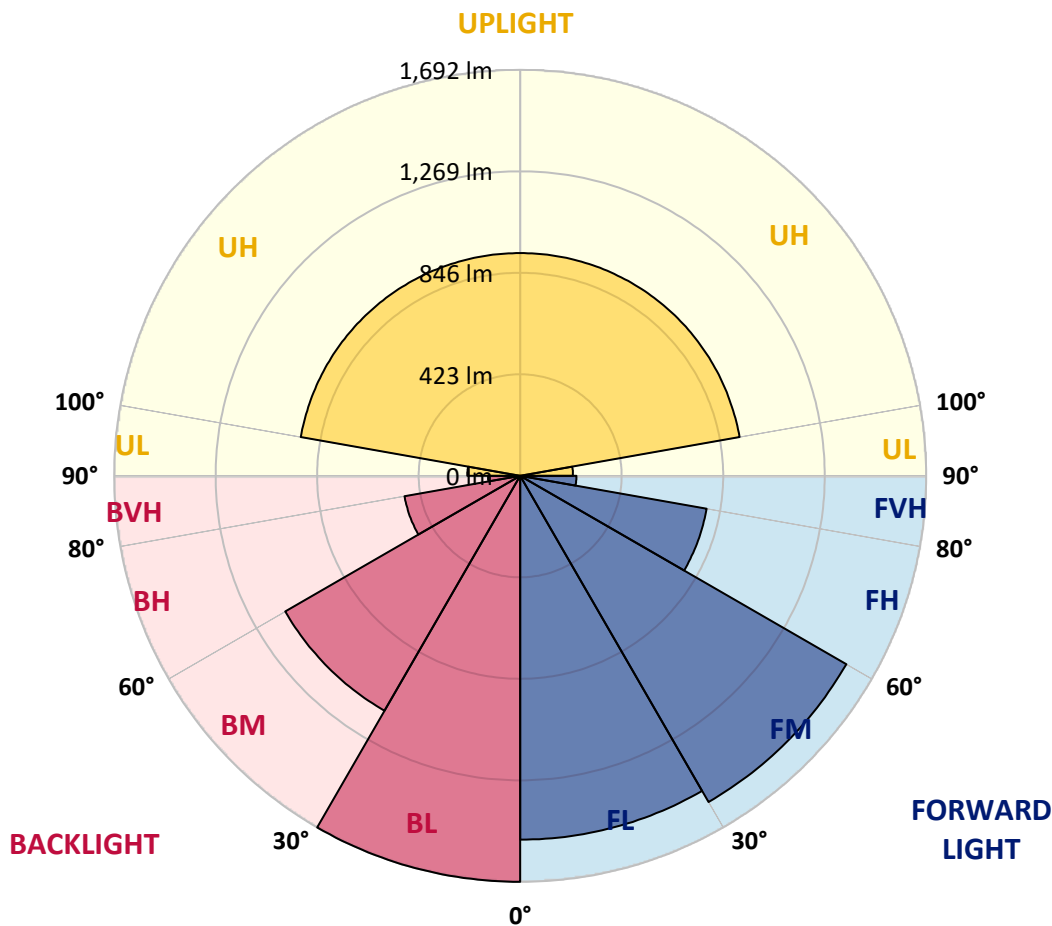
CATALOG NUMBER: CRTK2-C01HO-D-U-T3-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1516.6	17.4			
FM	(30°-60°)	1570.1	18.0			
FH	(60°-80°)	789.2	9.1			G1/1800
FVH	(80°-90°)	234.5	2.7			G3/500
BL	(0°-30°)	1692.4	19.4	B3/2500		
BM	(30°-60°)	1130.8	13.0	B2/2500		
BH	(60°-80°)	489.5	5.6	B1/500		G1/500
BVH	(80°-90°)	134.1	1.5			G2/225
UL	(90°-100°)	220.4	2.5		U3/500	
UH	(100°-180°)	928.5	10.7		U4/1000	

BUG Rating: B3-U4-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9
2.5°	5402.9	5528.3	5539.7	5676.5	5779.1	5874.1	5942.5	6140.0	6341.4	6531.4	6641.6
5°	4289.7	4350.5	4460.6	4608.8	4798.8	4947.0	5159.8	5437.1	5703.1	6037.4	6200.8
7.5°	3601.9	3647.5	3765.3	4004.7	4244.1	4472.0	4677.2	4943.2	5148.4	5425.7	5562.5
10°	3328.4	3355.0	3453.8	3620.9	3848.9	4038.9	4217.5	4418.8	4601.2	4855.8	4954.6
12.5°	3301.8	3313.2	3393.0	3510.8	3643.7	3799.5	3947.7	4118.7	4312.5	4513.8	4589.8
15°	3446.2	3438.6	3465.2	3533.6	3609.5	3731.1	3867.9	4023.7	4209.9	4358.1	4418.8
17.5°	3548.8	3545.0	3594.4	3624.7	3696.9	3769.1	3905.9	4027.5	4209.9	4327.7	4361.9
20°	3696.9	3704.5	3719.7	3776.7	3807.1	3856.5	3940.1	4012.3	4168.1	4236.5	4228.9
22.5°	3776.7	3772.9	3837.5	3970.5	4004.7	4031.3	4046.5	4076.9	4164.3	4160.5	4103.5
25°	3062.4	3070.0	3085.2	3199.2	3343.6	3579.2	3772.9	4076.9	4240.3	4179.5	4057.9
27.5°	2861.0	2838.2	2758.5	2693.9	2500.1	2370.9	2249.3	2196.1	2222.7	2268.3	2393.7
30°	1949.2	1953.0	1960.6	1972.0	1991.0	2040.3	2074.5	2078.3	2104.9	2180.9	2154.3
32.5°	1953.0	1956.8	1945.4	1956.8	1949.2	1968.2	1964.4	1949.2	1972.0	2040.3	2013.7
35°	1835.2	1827.6	1835.2	1839.0	1797.2	1782.0	1778.2	1766.8	1782.0	1816.2	1793.4
37.5°	1652.8	1649.0	1683.2	1702.2	1668.0	1668.0	1660.4	1645.2	1656.6	1687.0	1656.6
40°	1493.2	1497.0	1546.4	1576.8	1565.4	1576.8	1588.2	1584.4	1611.0	1622.4	1584.4
42.5°	1318.4	1310.8	1360.2	1383.0	1360.2	1367.8	1364.0	1367.8	1421.0	1443.8	1417.2
45°	1101.9	1113.3	1136.1	1166.5	1162.7	1174.1	1170.3	1177.9	1212.0	1223.4	1204.4
47.5°	980.3	987.9	1014.5	1048.7	1067.7	1086.7	1086.7	1090.5	1113.3	1117.1	1098.1
50°	953.7	961.3	995.5	1033.5	1063.9	1086.7	1098.1	1094.3	1105.7	1098.1	1071.5
52.5°	999.3	999.3	1052.5	1098.1	1136.1	1177.9	1193.1	1177.9	1177.9	1147.5	1105.7
55°	1018.3	1022.1	1086.7	1166.5	1238.6	1314.6	1364.0	1360.2	1356.4	1307.0	1231.0
57.5°	957.5	968.9	1033.5	1124.7	1223.4	1345.0	1417.2	1428.6	1428.6	1364.0	1280.4
60°	870.1	877.7	927.1	1003.1	1101.9	1193.1	1269.0	1276.6	1299.4	1265.2	1189.3
62.5°	797.9	805.5	847.3	904.3	976.5	1033.5	1056.3	1056.3	1067.7	1056.3	1003.1
65°	744.7	748.5	782.7	832.1	881.5	927.1	949.9	942.3	957.5	942.3	900.5
67.5°	695.3	695.3	725.7	763.7	809.3	862.5	877.7	885.3	900.5	881.5	843.5
70°	645.9	649.7	680.1	710.5	752.3	790.3	805.5	809.3	828.3	805.5	778.9
72.5°	604.1	604.1	630.7	661.1	691.5	729.5	740.9	748.5	759.9	737.1	714.3
75°	554.7	558.5	581.3	607.9	634.5	672.5	683.9	687.7	699.1	672.5	649.7
77.5°	509.1	512.9	531.9	554.7	581.3	611.7	623.1	630.7	634.5	611.7	588.9
80°	463.5	467.3	482.5	505.3	528.1	558.5	566.1	569.9	577.5	550.9	535.7
82.5°	421.7	421.7	433.1	452.1	474.9	501.5	512.9	516.7	520.5	497.7	482.5
85°	372.4	372.4	383.8	402.7	421.7	448.3	459.7	463.5	463.5	444.5	429.3
87.5°	330.6	330.6	338.2	353.4	368.6	395.2	406.5	414.1	410.3	395.2	380.0
90°	288.8	288.8	296.4	307.8	323.0	345.8	357.2	361.0	361.0	342.0	330.6
92.5°	250.8	250.8	258.4	269.8	281.2	300.2	311.6	319.2	319.2	304.0	292.6
95°	216.6	216.6	220.4	231.8	243.2	258.4	266.0	273.6	273.6	266.0	254.6
97.5°	186.2	186.2	190.0	197.6	205.2	216.6	224.2	231.8	231.8	228.0	220.4
100°	163.4	163.4	163.4	167.2	174.8	178.6	186.2	193.8	193.8	190.0	186.2
102.5°	148.2	148.2	148.2	148.2	148.2	152.0	152.0	155.8	155.8	155.8	152.0
105°	140.6	140.6	140.6	140.6	140.6	140.6	140.6	140.6	136.8	133.0	129.2
107.5°	140.6	136.8	136.8	136.8	136.8	133.0	133.0	133.0	129.2	125.4	121.6
110°	140.6	140.6	140.6	140.6	136.8	133.0	133.0	129.2	125.4	121.6	117.8

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CATALOG NUMBER: CRTK2-C01HO-D-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	148.2	148.2	148.2	144.4	140.6	140.6	136.8	133.0	129.2	121.6	117.8
115°	159.6	159.6	159.6	159.6	155.8	148.2	144.4	140.6	133.0	129.2	125.4
117.5°	178.6	178.6	178.6	178.6	171.0	167.2	159.6	155.8	148.2	140.6	136.8
120°	201.4	201.4	205.2	205.2	201.4	193.8	182.4	178.6	171.0	159.6	152.0
122.5°	235.6	231.8	239.4	239.4	239.4	231.8	216.6	209.0	201.4	186.2	178.6
125°	269.8	269.8	277.4	285.0	288.8	277.4	262.2	250.8	239.4	220.4	209.0
127.5°	307.8	307.8	323.0	338.2	345.8	334.4	315.4	304.0	288.8	262.2	247.0
130°	345.8	345.8	368.6	391.4	402.7	395.2	376.2	361.0	342.0	307.8	288.8
132.5°	380.0	380.0	406.5	436.9	452.1	448.3	429.3	414.1	399.0	357.2	330.6
135°	406.5	410.3	444.5	478.7	497.7	501.5	482.5	463.5	444.5	399.0	368.6
137.5°	421.7	429.3	463.5	505.3	524.3	535.7	524.3	505.3	482.5	433.1	399.0
140°	425.5	429.3	467.3	509.1	528.1	543.3	543.3	520.5	501.5	452.1	414.1
142.5°	414.1	417.9	455.9	493.9	512.9	531.9	535.7	516.7	497.7	452.1	414.1
145°	387.6	395.2	429.3	459.7	486.3	505.3	512.9	501.5	478.7	436.9	402.7
147.5°	353.4	357.2	387.6	414.1	440.7	463.5	474.9	463.5	444.5	406.5	376.2
150°	300.2	304.0	326.8	349.6	380.0	402.7	417.9	410.3	395.2	364.8	334.4
152.5°	243.2	243.2	262.2	281.2	307.8	330.6	345.8	342.0	330.6	304.0	281.2
155°	186.2	186.2	197.6	212.8	235.6	250.8	266.0	266.0	258.4	239.4	220.4
157.5°	133.0	133.0	144.4	155.8	171.0	186.2	197.6	197.6	193.8	178.6	167.2
160°	87.4	87.4	95.0	102.6	117.8	125.4	136.8	136.8	133.0	125.4	117.8
162.5°	45.6	45.6	53.2	57.0	68.4	76.0	83.6	87.4	87.4	79.8	76.0
165°	15.2	15.2	15.2	19.0	26.6	34.2	38.0	41.8	41.8	38.0	38.0
167.5°	3.8	3.8	3.8	3.8	3.8	3.8	7.6	11.4	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°	178°	180°
0°	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9	7279.9
2.5°	6759.4	7105.1	7401.5	7713.0	8058.8	8351.4	8647.7	8811.1	8951.7	8925.1	8925.1
5°	6360.4	6706.2	7067.1	7447.1	7914.4	8393.2	8849.1	9175.9	9346.8	9373.4	9369.6
7.5°	5699.3	6022.2	6364.2	6786.0	7333.1	7918.2	8537.5	9050.5	9373.4	9434.2	9445.6
10°	5045.8	5288.9	5577.7	5866.5	6356.6	6892.3	7447.1	7857.4	8172.8	8218.4	8271.6
12.5°	4654.4	4787.4	4973.6	5175.0	5494.1	5885.5	6341.4	6577.0	6778.4	6801.1	6850.5
15°	4453.0	4517.6	4563.2	4635.4	4825.4	5068.6	5277.5	5509.3	5592.9	5649.9	5676.5
17.5°	4373.3	4365.7	4320.1	4320.1	4335.3	4426.4	4559.4	4639.2	4692.4	4719.0	4726.6
20°	4209.9	4141.5	4050.3	3928.7	3864.1	3833.7	3867.9	3886.9	3871.7	3852.7	3886.9
22.5°	4038.9	3894.5	3731.1	3590.6	3423.4	3320.8	3222.0	3187.8	3146.0	3172.6	3172.6
25°	3985.7	3731.1	3469.0	3233.4	2982.6	2811.6	2629.3	2564.7	2500.1	2553.3	2553.3
27.5°	2355.7	2355.7	2207.5	2009.9	1793.4	1702.2	1630.0	1588.2	1561.6	1573.0	1573.0
30°	2108.7	2009.9	1918.8	1793.4	1626.2	1516.0	1421.0	1364.0	1337.4	1329.8	1337.4
32.5°	1956.8	1880.8	1770.6	1645.2	1497.0	1375.4	1269.0	1212.0	1170.3	1177.9	1181.7
35°	1751.6	1671.8	1576.8	1459.0	1333.6	1219.6	1124.7	1067.7	1029.7	1029.7	1033.5
37.5°	1622.4	1542.6	1451.4	1345.0	1223.4	1113.3	1025.9	957.5	923.3	919.5	919.5
40°	1542.6	1462.8	1379.2	1272.8	1158.9	1044.9	957.5	896.7	854.9	854.9	858.7
42.5°	1398.2	1322.2	1250.0	1155.1	1052.5	953.7	870.1	816.9	775.1	767.5	775.1
45°	1177.9	1136.1	1079.1	1014.5	927.1	847.3	771.3	725.7	691.5	691.5	687.7
47.5°	1079.1	1037.3	976.5	911.9	839.7	759.9	699.1	657.3	626.9	626.9	626.9
50°	1041.1	995.5	919.5	847.3	763.7	695.3	642.1	600.3	577.5	577.5	573.7
52.5°	1060.1	987.9	889.1	786.5	706.7	638.3	585.1	543.3	524.3	524.3	520.5
55°	1162.7	1033.5	889.1	763.7	668.7	592.7	539.5	493.9	474.9	474.9	474.9
57.5°	1204.4	1060.1	881.5	740.9	634.5	554.7	490.1	448.3	429.3	429.3	425.5
60°	1128.5	1006.9	843.5	710.5	607.9	528.1	467.3	425.5	402.7	402.7	399.0
62.5°	961.3	873.9	748.5	649.7	569.9	497.7	444.5	402.7	383.8	383.8	383.8
65°	862.5	786.5	687.7	600.3	528.1	467.3	417.9	383.8	364.8	364.8	364.8
67.5°	805.5	740.9	642.1	558.5	486.3	429.3	383.8	353.4	338.2	334.4	338.2
70°	744.7	676.3	585.1	505.3	440.7	387.6	345.8	315.4	300.2	300.2	300.2
72.5°	680.1	615.5	528.1	455.9	391.4	349.6	307.8	281.2	266.0	266.0	262.2
75°	619.3	554.7	471.1	402.7	349.6	307.8	273.6	250.8	235.6	235.6	235.6
77.5°	562.3	501.5	421.7	361.0	311.6	277.4	243.2	224.2	212.8	212.8	209.0
80°	509.1	452.1	376.2	323.0	277.4	247.0	216.6	201.4	190.0	190.0	190.0
82.5°	455.9	402.7	334.4	285.0	247.0	216.6	193.8	178.6	171.0	167.2	171.0
85°	406.5	357.2	296.4	250.8	216.6	190.0	171.0	155.8	148.2	148.2	148.2
87.5°	361.0	315.4	262.2	220.4	190.0	167.2	148.2	136.8	133.0	129.2	129.2
90°	311.6	269.8	224.2	190.0	163.4	144.4	125.4	117.8	110.2	110.2	110.2
92.5°	277.4	243.2	201.4	171.0	148.2	133.0	117.8	110.2	102.6	102.6	102.6
95°	243.2	212.8	178.6	155.8	136.8	121.6	110.2	102.6	98.8	98.8	98.8
97.5°	209.0	186.2	159.6	140.6	125.4	114.0	102.6	95.0	91.2	91.2	91.2
100°	174.8	159.6	140.6	125.4	114.0	102.6	91.2	87.4	83.6	83.6	83.6
102.5°	144.4	133.0	117.8	106.4	95.0	87.4	79.8	76.0	72.2	72.2	72.2
105°	125.4	117.8	106.4	95.0	87.4	79.8	72.2	64.6	64.6	64.6	64.6
107.5°	117.8	106.4	98.8	91.2	83.6	72.2	68.4	60.8	57.0	57.0	57.0
110°	114.0	106.4	98.8	87.4	79.8	72.2	64.6	57.0	53.2	53.2	53.2

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	114.0	106.4	98.8	91.2	83.6	72.2	68.4	53.2	49.4	49.4	49.4
115°	121.6	114.0	102.6	95.0	83.6	76.0	68.4	53.2	49.4	49.4	49.4
117.5°	129.2	121.6	110.2	102.6	91.2	79.8	68.4	53.2	49.4	49.4	49.4
120°	148.2	136.8	121.6	110.2	98.8	83.6	72.2	53.2	45.6	49.4	49.4
122.5°	167.2	155.8	136.8	121.6	106.4	91.2	72.2	53.2	45.6	49.4	49.4
125°	197.6	178.6	155.8	136.8	114.0	95.0	76.0	53.2	41.8	45.6	49.4
127.5°	231.8	209.0	178.6	152.0	125.4	98.8	76.0	53.2	41.8	45.6	45.6
130°	269.8	239.4	201.4	163.4	133.0	102.6	76.0	53.2	41.8	45.6	45.6
132.5°	307.8	266.0	220.4	178.6	140.6	106.4	76.0	49.4	41.8	41.8	41.8
135°	338.2	288.8	235.6	186.2	144.4	106.4	72.2	49.4	38.0	38.0	38.0
137.5°	364.8	307.8	247.0	190.0	144.4	102.6	68.4	45.6	34.2	34.2	34.2
140°	380.0	315.4	250.8	186.2	136.8	98.8	64.6	41.8	30.4	30.4	30.4
142.5°	380.0	311.6	243.2	182.4	129.2	91.2	57.0	34.2	26.6	26.6	26.6
145°	364.8	296.4	231.8	171.0	117.8	79.8	49.4	30.4	22.8	22.8	22.8
147.5°	342.0	273.6	212.8	155.8	106.4	68.4	41.8	26.6	19.0	19.0	19.0
150°	304.0	243.2	186.2	133.0	91.2	57.0	34.2	22.8	15.2	15.2	15.2
152.5°	254.6	201.4	155.8	110.2	76.0	45.6	30.4	15.2	11.4	11.4	11.4
155°	201.4	159.6	121.6	87.4	57.0	34.2	22.8	15.2	7.6	7.6	7.6
157.5°	152.0	117.8	91.2	64.6	41.8	26.6	15.2	11.4	7.6	7.6	7.6
160°	106.4	83.6	60.8	41.8	26.6	19.0	11.4	7.6	3.8	3.8	3.8
162.5°	68.4	53.2	38.0	26.6	15.2	11.4	7.6	3.8	3.8	3.8	0.0
165°	34.2	26.6	19.0	11.4	7.6	3.8	3.8	3.8	0.0	0.0	0.0
167.5°	7.6	7.6	7.6	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)