

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: P690837

Luminaire Tested: **CRTK2-C01-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690837
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-C01-5TLD-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: 6470 lumens
Efficiency: N/A
Efficacy: 107.8 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): 60
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



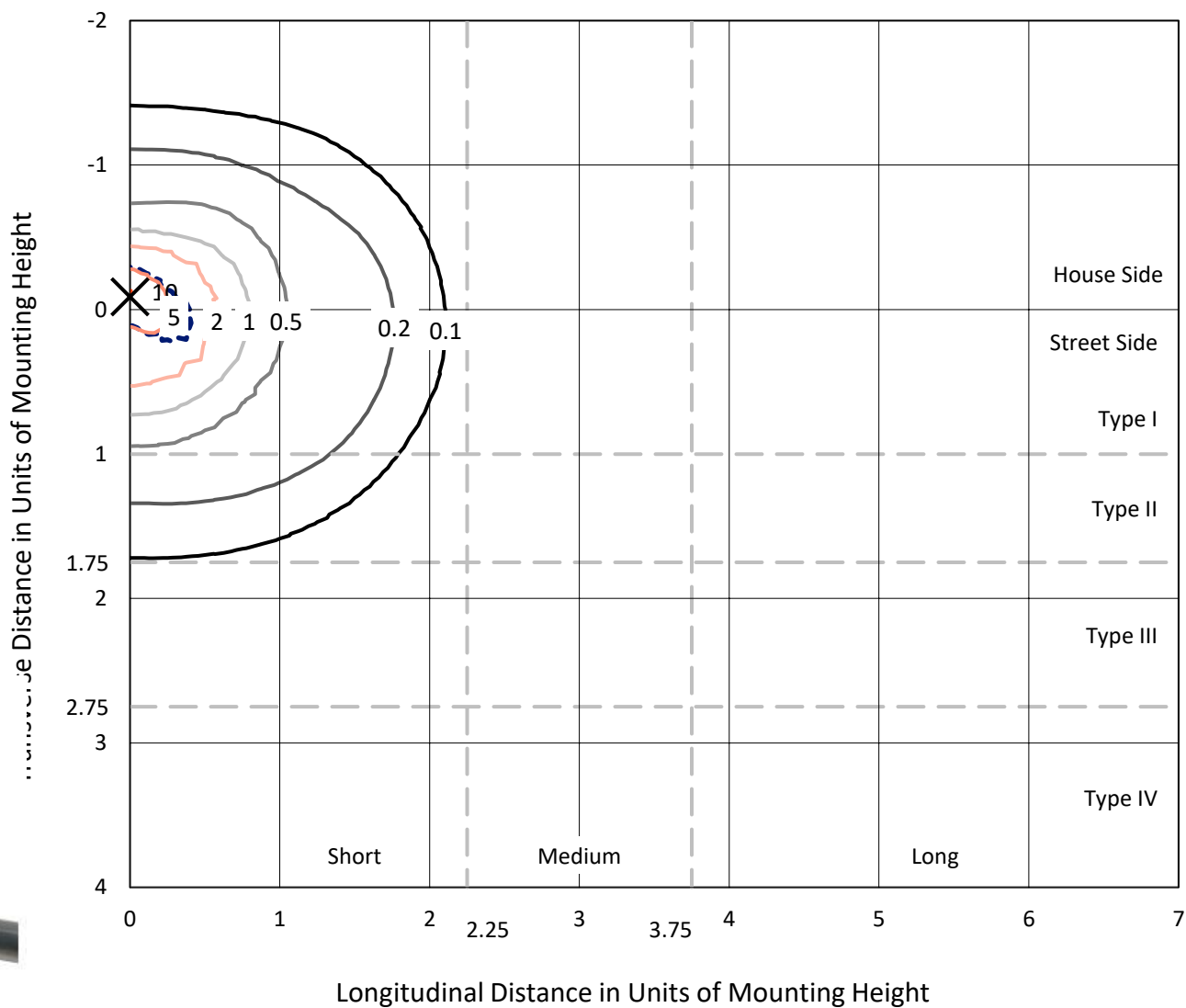
REPORT NUMBER: P690837

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



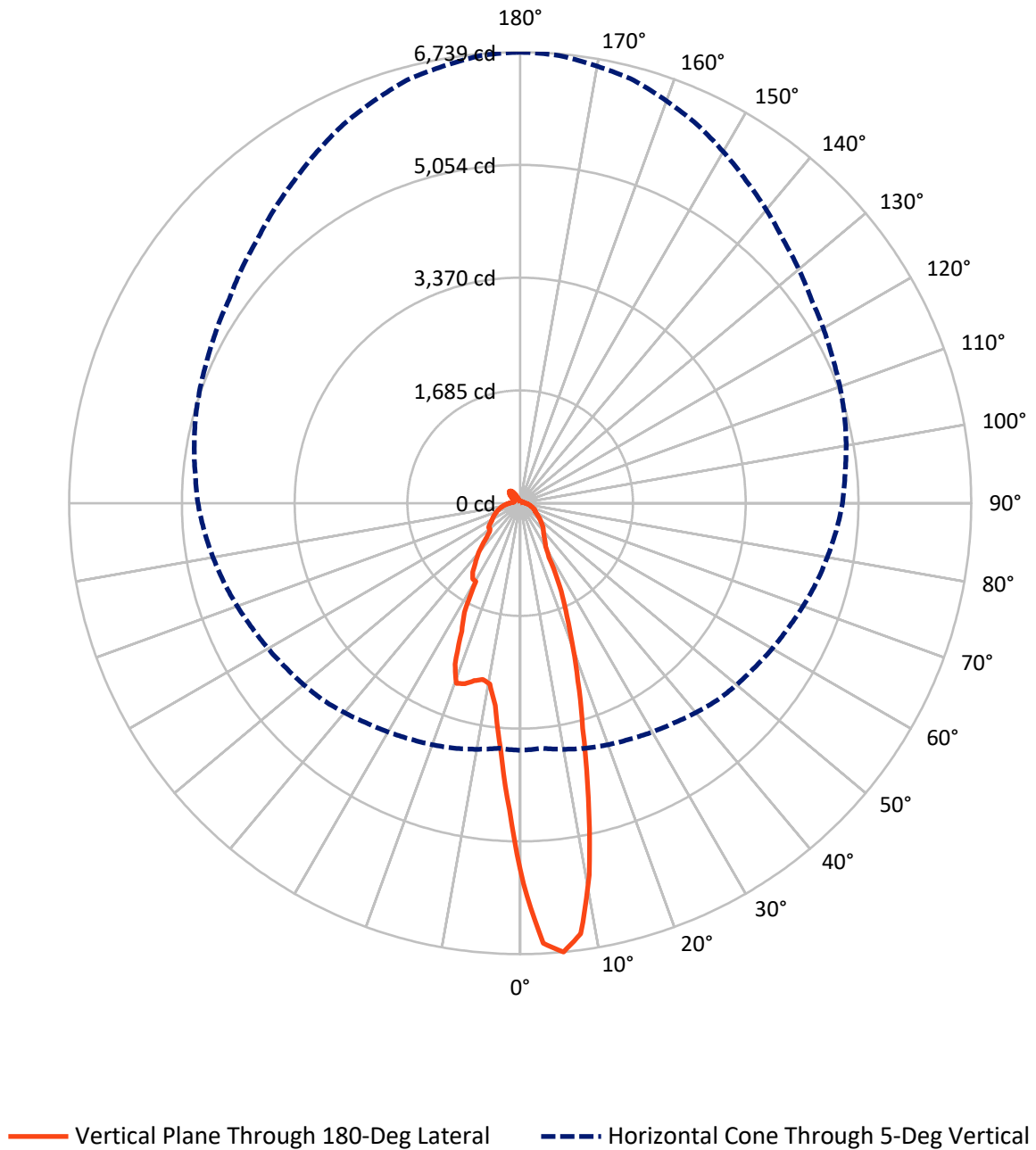
Based on 25 foot mounting height. Maximum calculated value = 10.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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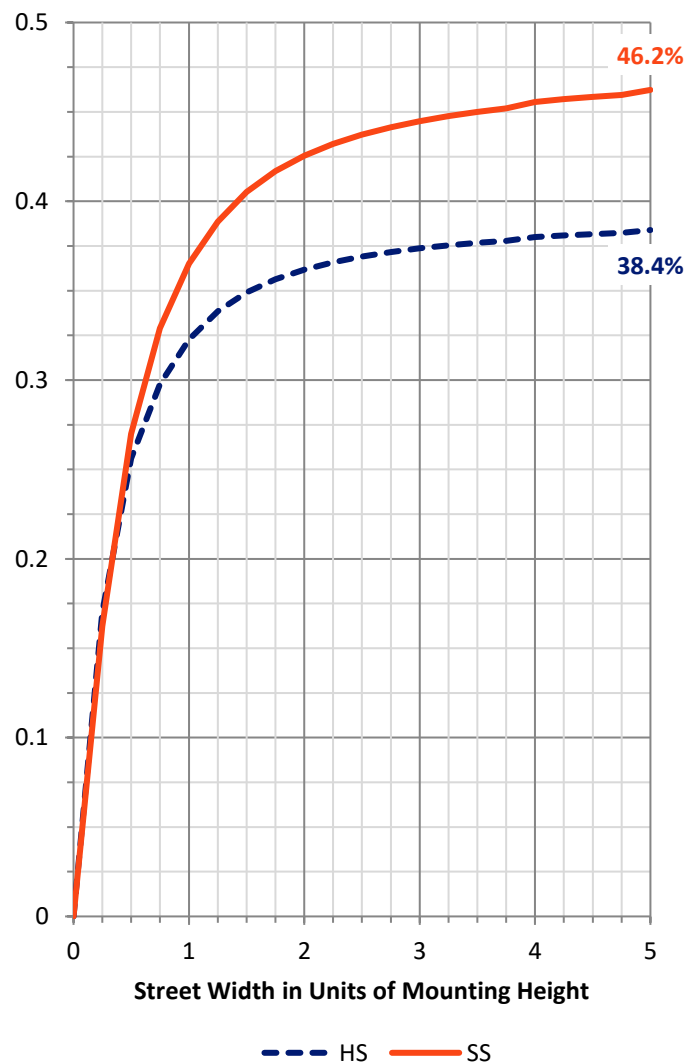
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2549.8	299.4	2849.1
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	3064.4	556.5	3620.9
	% Fixture	47.4	8.6	56.0
Total	Lumens	5614.2	855.9	6470.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.3	6.8
10°-20°	934.2	14.4
20°-30°	1016.7	15.7
30°-40°	744.2	11.5
40°-50°	625.7	9.7
50°-60°	635.4	9.8
60°-70°	540.1	8.3
70°-80°	403.1	6.2
80°-90°	274.3	4.2
90°-100°	164.8	2.5
100°-110°	94.5	1.5
110°-120°	87.0	1.3
120°-130°	126.3	2.0
130°-140°	173.7	2.7
140°-150°	143.8	2.2
150°-160°	58.5	0.9
160°-170°	7.3	0.1
170°-180°	0.0	0.0
0°-90°	5614.2	86.8
0°-180°	6470.0	100.0

Coefficient of Utilization



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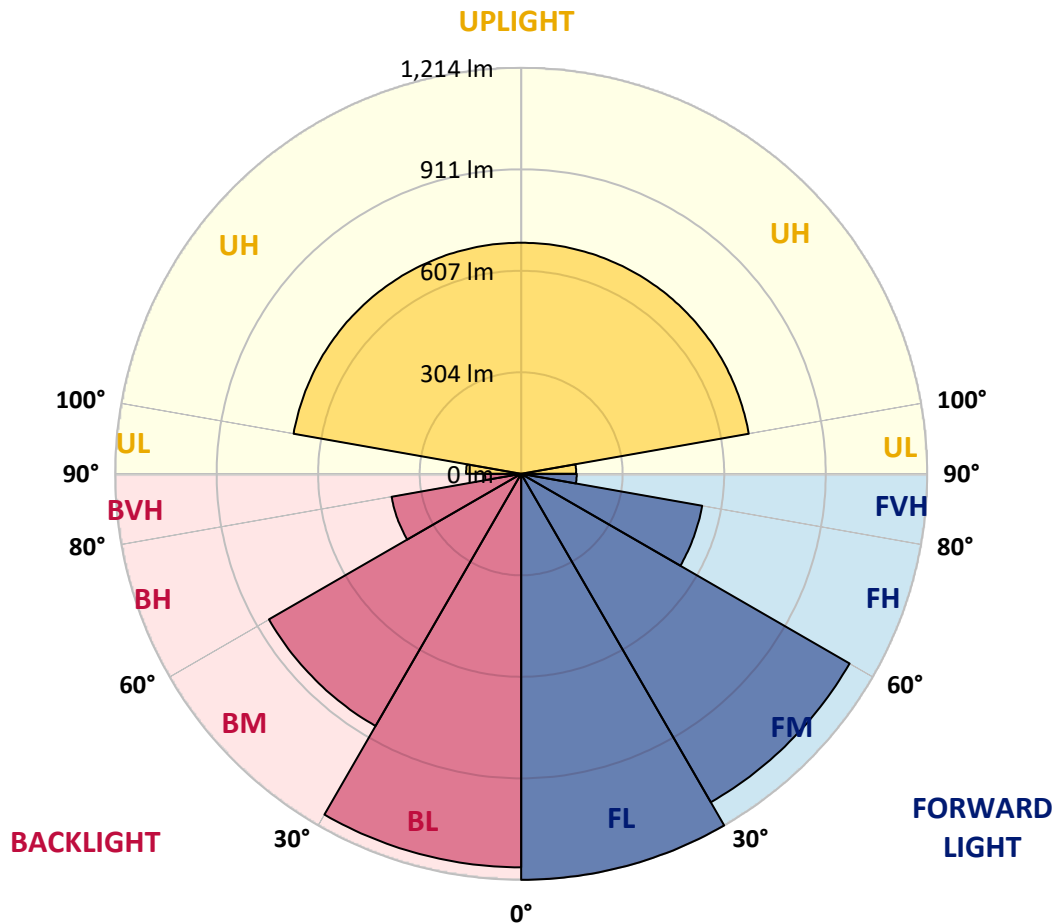
CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1214.3	18.8			
FM	(30°-60°)	1134.3	17.5			
FH	(60°-80°)	549.6	8.5			G0/660
FVH	(80°-90°)	166.1	2.6			G2/225
BL	(0°-30°)	1176.9	18.2	B3/2500		
BM	(30°-60°)	871.1	13.5	B1/1000		
BH	(60°-80°)	393.6	6.1	B1/500		G1/500
BVH	(80°-90°)	108.2	1.7			G2/225
UL	(90°-100°)	164.8	2.5		U3/500	
UH	(100°-180°)	691.1	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short



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CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6
2.5°	4587.0	4578.3	4641.7	4656.1	4661.9	4728.1	4817.5	4878.0	4987.5	5094.1	5137.3
5°	3693.8	3676.5	3791.7	3889.7	4007.8	4163.4	4278.7	4417.0	4581.2	4739.7	4814.6
7.5°	3045.5	3068.5	3232.8	3434.5	3624.6	3809.0	3950.2	4068.3	4163.4	4264.3	4284.4
10°	2740.1	2760.2	2921.6	3114.6	3290.4	3477.7	3598.7	3699.5	3760.0	3835.0	3860.9
12.5°	2691.1	2705.5	2815.0	2950.4	3082.9	3252.9	3405.6	3518.0	3587.2	3647.7	3653.4
15°	2740.1	2745.8	2812.1	2901.4	3016.7	3157.9	3333.6	3460.4	3538.2	3564.1	3558.4
17.5°	2820.8	2820.8	2852.4	2927.4	3036.8	3172.3	3339.4	3469.0	3549.7	3561.2	3538.2
20°	2855.3	2861.1	2881.3	2964.8	3062.8	3186.7	3353.8	3463.3	3526.7	3495.0	3454.6
22.5°	2596.0	2584.5	2639.2	2815.0	3034.0	3255.8	3414.3	3538.2	3572.8	3466.2	3379.7
25°	2100.4	2106.2	2140.8	2227.2	2397.2	2601.8	2953.3	3330.7	3592.9	3552.6	3422.9
27.5°	1832.5	1815.2	1823.8	1838.2	1815.2	1772.0	1812.3	1803.7	1797.9	1901.6	1913.2
30°	1345.5	1348.4	1362.8	1388.8	1443.5	1524.2	1610.6	1659.6	1702.8	1783.5	1772.0
32.5°	1336.9	1339.8	1348.4	1371.5	1400.3	1455.0	1509.8	1529.9	1576.0	1642.3	1622.1
35°	1250.5	1241.8	1264.9	1285.0	1293.7	1316.7	1360.0	1388.8	1417.6	1463.7	1452.2
37.5°	1109.3	1112.2	1158.3	1190.0	1198.6	1230.3	1270.6	1293.7	1325.4	1365.7	1345.5
40°	988.3	991.2	1045.9	1080.5	1100.6	1143.9	1204.4	1233.2	1285.0	1316.7	1293.7
42.5°	850.0	861.5	899.0	939.3	950.8	976.7	1017.1	1054.5	1120.8	1164.0	1149.6
45°	708.8	714.6	740.5	780.8	798.1	826.9	864.4	899.0	950.8	985.4	982.5
47.5°	625.2	631.0	654.0	688.6	723.2	760.7	801.0	835.6	884.5	913.4	901.8
50°	590.7	596.4	625.2	665.6	708.8	757.8	806.8	844.2	890.3	907.6	893.2
52.5°	596.4	596.4	636.8	688.6	749.1	815.4	875.9	922.0	959.5	971.0	939.3
55°	564.7	573.4	616.6	688.6	780.8	884.5	988.3	1086.2	1141.0	1129.5	1068.9
57.5°	515.7	524.4	556.1	633.9	731.8	855.7	1002.7	1123.7	1190.0	1198.6	1138.1
60°	486.9	492.7	521.5	582.0	668.5	769.3	901.8	999.8	1074.7	1097.8	1054.5
62.5°	461.0	466.8	489.8	535.9	599.3	677.1	752.0	815.4	875.9	899.0	881.7
65°	432.2	435.1	458.1	498.5	550.3	616.6	680.0	726.1	775.1	789.5	769.3
67.5°	403.4	406.3	426.4	463.9	512.9	573.4	622.4	674.2	723.2	734.7	720.3
70°	377.4	380.3	397.6	432.2	475.4	533.0	579.1	613.7	662.7	674.2	656.9
72.5°	351.5	354.4	371.7	403.4	443.7	495.6	535.9	570.5	610.8	613.7	599.3
75°	325.6	328.5	342.9	371.7	406.3	458.1	495.6	524.4	559.0	559.0	541.7
77.5°	296.8	302.5	314.1	340.0	371.7	420.7	455.2	484.1	512.9	510.0	492.7
80°	270.8	273.7	285.2	308.3	337.1	383.2	417.8	440.8	466.8	463.9	449.5
82.5°	242.0	244.9	253.6	276.6	302.5	345.8	380.3	403.4	426.4	420.7	406.3
85°	213.2	216.1	227.6	244.9	270.8	311.2	342.9	365.9	383.2	377.4	365.9
87.5°	190.2	190.2	198.8	216.1	239.1	276.6	305.4	328.5	342.9	340.0	328.5
90°	164.2	167.1	172.9	187.3	207.5	239.1	268.0	288.1	302.5	296.8	285.2
92.5°	144.1	144.1	149.8	164.2	181.5	210.3	236.3	253.6	265.1	262.2	253.6
95°	123.9	126.8	129.7	141.2	155.6	178.6	201.7	219.0	230.5	227.6	221.9
97.5°	109.5	112.4	115.3	121.0	135.4	149.8	170.0	184.4	195.9	193.0	187.3
100°	100.8	100.8	100.8	106.6	115.3	126.8	141.2	152.7	158.5	161.4	155.6
102.5°	92.2	92.2	95.1	95.1	100.8	106.6	115.3	123.9	126.8	126.8	126.8
105°	89.3	89.3	92.2	92.2	95.1	98.0	103.7	106.6	109.5	109.5	106.6
107.5°	89.3	89.3	89.3	89.3	92.2	95.1	98.0	100.8	100.8	100.8	98.0
110°	92.2	92.2	92.2	92.2	92.2	95.1	95.1	98.0	98.0	95.1	95.1

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CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	95.1	95.1	95.1	95.1	95.1	98.0	98.0	98.0	98.0	95.1	95.1
115°	100.8	100.8	100.8	103.7	103.7	103.7	103.7	103.7	103.7	100.8	98.0
117.5°	112.4	112.4	112.4	112.4	115.3	115.3	115.3	115.3	115.3	109.5	109.5
120°	126.8	123.9	126.8	129.7	132.5	132.5	132.5	132.5	132.5	126.8	123.9
122.5°	141.2	141.2	144.1	149.8	155.6	158.5	155.6	155.6	155.6	146.9	144.1
125°	158.5	158.5	167.1	178.6	187.3	190.2	187.3	187.3	187.3	178.6	172.9
127.5°	178.6	178.6	190.2	207.5	221.9	230.5	227.6	227.6	227.6	213.2	204.6
130°	198.8	198.8	216.1	239.1	262.2	268.0	270.8	273.7	273.7	256.4	244.9
132.5°	213.2	216.1	236.3	268.0	296.8	305.4	314.1	316.9	316.9	296.8	279.5
135°	227.6	230.5	256.4	293.9	325.6	345.8	354.4	357.3	360.2	337.1	316.9
137.5°	236.3	239.1	268.0	311.2	342.9	368.8	389.0	394.7	394.7	368.8	342.9
140°	236.3	239.1	270.8	311.2	345.8	377.4	400.5	412.0	412.0	386.1	363.0
142.5°	230.5	236.3	265.1	305.4	340.0	371.7	397.6	409.1	409.1	386.1	363.0
145°	219.0	221.9	250.7	285.2	319.8	357.3	386.1	397.6	397.6	374.6	351.5
147.5°	198.8	201.7	224.7	256.4	291.0	328.5	357.3	371.7	368.8	348.6	328.5
150°	172.9	172.9	193.0	219.0	253.6	288.1	316.9	331.3	331.3	311.2	293.9
152.5°	141.2	141.2	155.6	175.8	204.6	239.1	262.2	276.6	276.6	262.2	247.8
155°	109.5	109.5	121.0	135.4	158.5	184.4	201.7	216.1	216.1	204.6	193.0
157.5°	77.8	77.8	89.3	100.8	118.1	138.3	152.7	161.4	164.2	152.7	146.9
160°	51.9	51.9	57.6	66.3	80.7	95.1	103.7	112.4	115.3	106.6	103.7
162.5°	28.8	28.8	31.7	40.3	49.0	57.6	66.3	72.0	72.0	69.2	66.3
165°	8.6	8.6	11.5	14.4	20.2	25.9	28.8	31.7	34.6	34.6	31.7
167.5°	0.0	0.0	2.9	2.9	2.9	2.9	5.8	5.8	8.6	8.6	8.6
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°	179°	180°
0°	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6	5687.6
2.5°	5226.6	5387.9	5563.7	5733.7	5941.2	6157.2	6356.1	6491.5	6563.5	6586.6	6586.6
5°	4872.2	5019.1	5148.8	5310.2	5560.8	5886.4	6246.6	6546.2	6716.2	6736.4	6739.3
7.5°	4319.0	4440.0	4575.4	4719.5	4941.4	5232.4	5707.8	6191.8	6468.4	6520.3	6500.1
10°	3866.6	3941.6	4022.2	4077.0	4232.6	4448.7	4771.4	5246.8	5586.8	5627.1	5655.9
12.5°	3656.3	3667.8	3644.8	3656.3	3708.2	3809.0	3967.5	4241.2	4463.1	4500.5	4520.7
15°	3549.7	3492.1	3399.9	3313.4	3267.3	3276.0	3310.6	3422.9	3460.4	3523.8	3495.0
17.5°	3500.7	3371.1	3227.0	3059.9	2956.2	2849.6	2791.9	2771.8	2757.4	2760.2	2786.2
20°	3376.8	3229.9	2999.4	2780.4	2613.3	2466.4	2342.5	2253.1	2204.2	2181.1	2198.4
22.5°	3247.2	3019.6	2748.7	2512.5	2273.3	2086.0	1944.8	1815.2	1743.2	1763.3	1740.3
25°	3250.1	2910.1	2587.4	2276.2	2051.5	1803.7	1578.9	1443.5	1325.4	1348.4	1380.1
27.5°	2048.6	1959.3	1728.8	1547.2	1322.5	1198.6	1086.2	991.2	924.9	927.8	919.1
30°	1737.4	1645.2	1529.9	1385.9	1215.9	1071.8	942.2	832.7	769.3	752.0	749.1
32.5°	1604.9	1527.1	1420.5	1279.3	1123.7	979.6	850.0	749.1	685.7	682.9	682.9
35°	1429.1	1357.1	1267.8	1146.7	1014.2	881.7	760.7	674.2	622.4	622.4	619.5
37.5°	1319.6	1256.2	1169.8	1057.4	939.3	806.8	700.1	622.4	567.6	564.7	567.6
40°	1262.0	1195.7	1112.2	1005.6	887.4	760.7	659.8	579.1	538.8	535.9	533.0
42.5°	1146.7	1094.9	1022.8	924.9	821.2	708.8	613.7	541.7	507.1	504.2	507.1
45°	973.9	936.4	887.4	815.4	729.0	633.9	550.3	495.6	461.0	461.0	461.0
47.5°	893.2	858.6	803.9	731.8	656.9	567.6	498.5	452.4	420.7	420.7	420.7
50°	873.0	829.8	757.8	677.1	596.4	518.6	455.2	409.1	386.1	383.2	386.1
52.5°	901.8	835.6	737.6	642.5	553.2	478.3	417.8	374.6	351.5	351.5	351.5
55°	1005.6	884.5	754.9	633.9	527.3	443.7	383.2	340.0	316.9	314.1	316.9
57.5°	1074.7	922.0	760.7	625.2	510.0	420.7	354.4	308.3	285.2	282.4	285.2
60°	1014.2	890.3	734.7	602.2	495.6	403.4	334.2	288.1	265.1	262.2	262.2
62.5°	841.3	769.3	656.9	544.6	458.1	377.4	314.1	270.8	247.8	244.9	247.8
65°	746.2	682.9	584.9	495.6	420.7	351.5	296.8	259.3	236.3	236.3	236.3
67.5°	694.4	636.8	544.6	458.1	389.0	325.6	273.7	239.1	219.0	219.0	219.0
70°	633.9	576.3	492.7	414.9	351.5	296.8	250.7	216.1	198.8	195.9	198.8
72.5°	582.0	524.4	446.6	374.6	316.9	268.0	227.6	195.9	181.5	178.6	181.5
75°	524.4	469.6	394.7	331.3	282.4	239.1	204.6	175.8	164.2	161.4	161.4
77.5°	475.4	423.5	354.4	296.8	253.6	213.2	181.5	161.4	149.8	146.9	146.9
80°	432.2	383.2	316.9	265.1	224.7	190.2	164.2	144.1	132.5	132.5	132.5
82.5°	386.1	342.9	282.4	233.4	198.8	170.0	144.1	126.8	118.1	118.1	118.1
85°	348.6	305.4	247.8	207.5	172.9	146.9	126.8	112.4	103.7	103.7	103.7
87.5°	308.3	270.8	219.0	181.5	152.7	129.7	109.5	95.1	92.2	89.3	89.3
90°	268.0	233.4	187.3	155.6	129.7	109.5	92.2	80.7	77.8	74.9	74.9
92.5°	239.1	207.5	170.0	141.2	118.1	98.0	86.4	74.9	72.0	72.0	69.2
95°	207.5	181.5	149.8	126.8	106.6	92.2	80.7	72.0	69.2	69.2	66.3
97.5°	178.6	155.6	132.5	115.3	98.0	86.4	74.9	69.2	63.4	63.4	63.4
100°	149.8	132.5	115.3	98.0	89.3	77.8	69.2	63.4	60.5	57.6	57.6
102.5°	121.0	109.5	95.1	86.4	74.9	66.3	60.5	54.7	51.9	51.9	51.9
105°	103.7	95.1	86.4	77.8	69.2	60.5	54.7	49.0	46.1	46.1	46.1
107.5°	95.1	89.3	80.7	72.0	66.3	57.6	51.9	43.2	40.3	43.2	43.2
110°	92.2	86.4	77.8	72.0	63.4	57.6	51.9	40.3	37.5	40.3	40.3

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	92.2	86.4	80.7	72.0	66.3	57.6	51.9	40.3	37.5	37.5	37.5
115°	95.1	92.2	83.6	77.8	69.2	60.5	51.9	40.3	37.5	37.5	37.5
117.5°	106.6	100.8	92.2	83.6	74.9	63.4	54.7	40.3	37.5	37.5	37.5
120°	118.1	112.4	103.7	92.2	80.7	69.2	57.6	40.3	34.6	37.5	37.5
122.5°	138.3	129.7	118.1	103.7	89.3	74.9	57.6	43.2	31.7	37.5	37.5
125°	164.2	152.7	135.4	115.3	98.0	80.7	60.5	43.2	34.6	37.5	37.5
127.5°	193.0	178.6	155.6	129.7	106.6	83.6	63.4	43.2	34.6	34.6	37.5
130°	230.5	207.5	175.8	144.1	115.3	89.3	63.4	43.2	34.6	34.6	34.6
132.5°	262.2	233.4	193.0	155.6	121.0	92.2	63.4	43.2	31.7	31.7	31.7
135°	293.9	256.4	207.5	164.2	126.8	92.2	63.4	40.3	31.7	31.7	31.7
137.5°	319.8	270.8	219.0	167.1	126.8	89.3	60.5	37.5	28.8	28.8	28.8
140°	334.2	279.5	221.9	167.1	121.0	86.4	54.7	34.6	25.9	25.9	25.9
142.5°	334.2	276.6	219.0	161.4	115.3	80.7	49.0	28.8	23.1	23.1	23.1
145°	322.7	265.1	207.5	152.7	106.6	72.0	43.2	25.9	17.3	17.3	20.2
147.5°	302.5	244.9	190.2	138.3	95.1	60.5	37.5	20.2	14.4	14.4	14.4
150°	268.0	216.1	164.2	121.0	80.7	51.9	31.7	17.3	11.5	11.5	11.5
152.5°	224.7	178.6	138.3	100.8	66.3	40.3	23.1	14.4	8.6	8.6	8.6
155°	178.6	141.2	109.5	77.8	49.0	31.7	17.3	11.5	8.6	8.6	8.6
157.5°	132.5	106.6	80.7	57.6	37.5	23.1	14.4	8.6	5.8	5.8	5.8
160°	92.2	74.9	54.7	37.5	23.1	14.4	8.6	5.8	2.9	2.9	2.9
162.5°	60.5	46.1	34.6	23.1	14.4	8.6	5.8	2.9	2.9	2.9	2.9
165°	28.8	23.1	17.3	11.5	5.8	5.8	2.9	2.9	0.0	0.0	0.0
167.5°	8.6	5.8	2.9	2.9	2.9	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)