

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: P690862

Luminaire Tested: **CRTK2-C01-5TLD-U-T3-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-15)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C01-5TLD-U-T3-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7046 lumens
Efficiency: N/A
Efficacy: 117.4 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



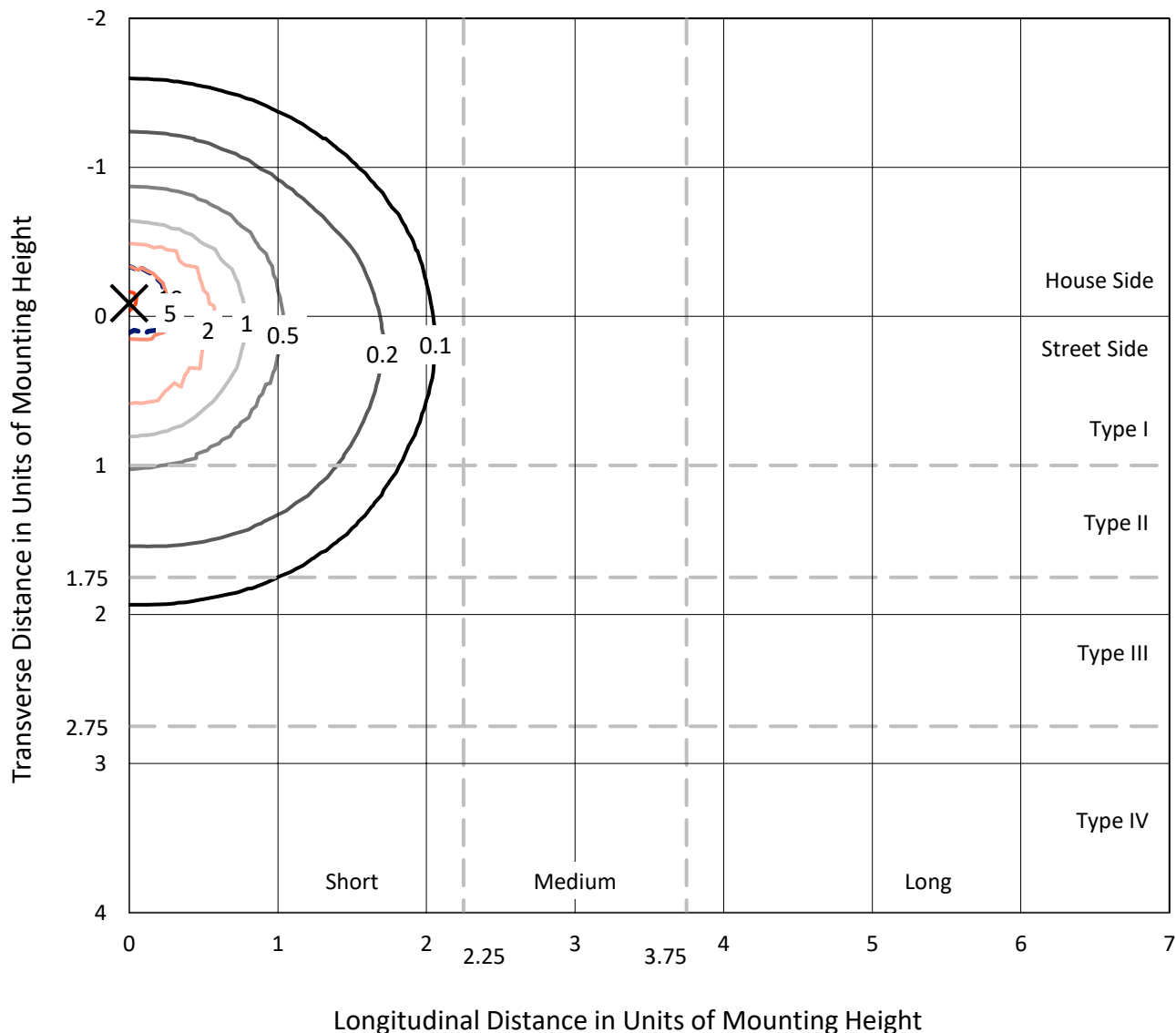
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

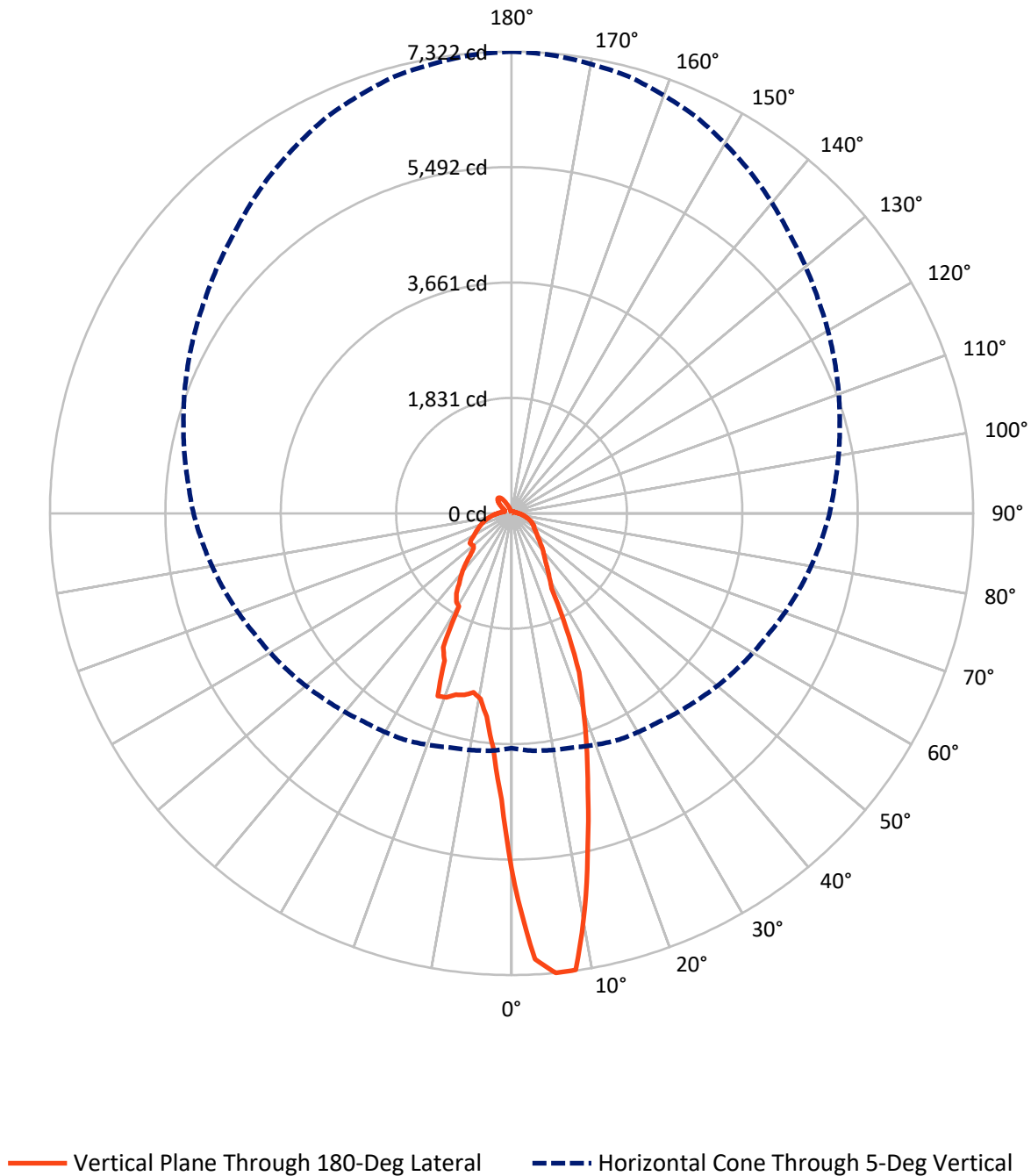


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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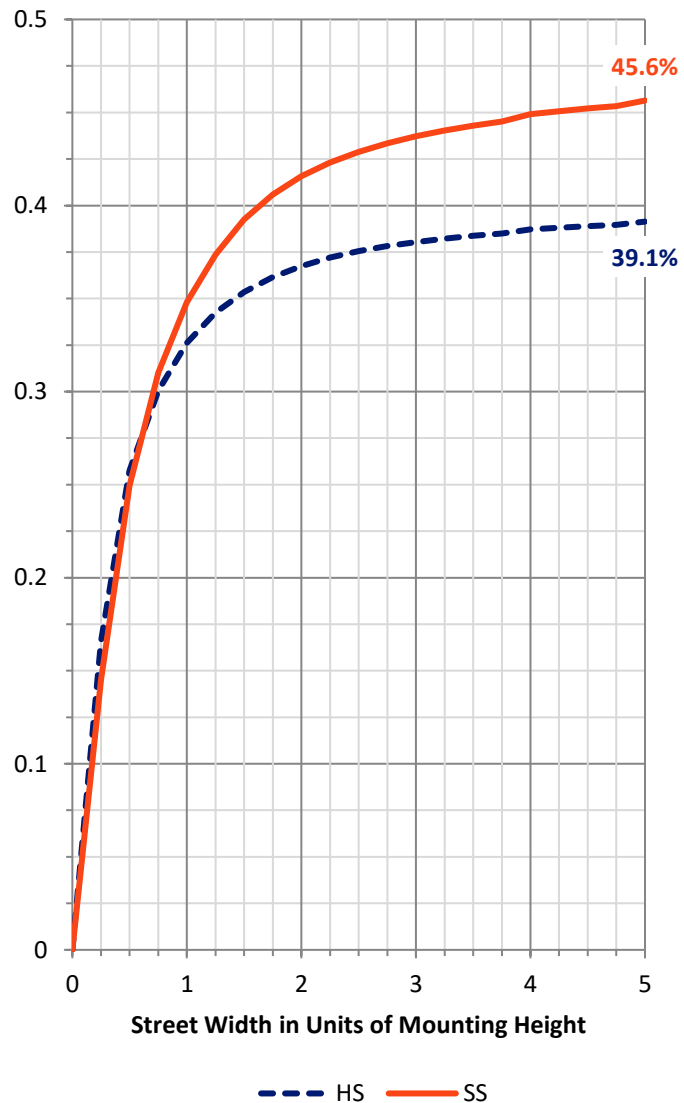
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2831.9	303.6	3135.6
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	3304.8	605.6	3910.4
	% Fixture	46.9	8.6	55.5
Total	Lumens	6136.7	909.3	7046.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.6	6.7
10°-20°	1015.8	14.4
20°-30°	1118.4	15.9
30°-40°	821.8	11.7
40°-50°	688.6	9.8
50°-60°	690.9	9.8
60°-70°	591.7	8.4
70°-80°	440.9	6.3
80°-90°	295.0	4.2
90°-100°	175.2	2.5
100°-110°	101.7	1.4
110°-120°	94.6	1.3
120°-130°	137.2	1.9
130°-140°	184.7	2.6
140°-150°	149.5	2.1
150°-160°	59.1	0.8
160°-170°	7.2	0.1
170°-180°	0.0	0.0
0°-90°	6136.7	87.1
0°-180°	7046.0	100.0

Coefficient of Utilization



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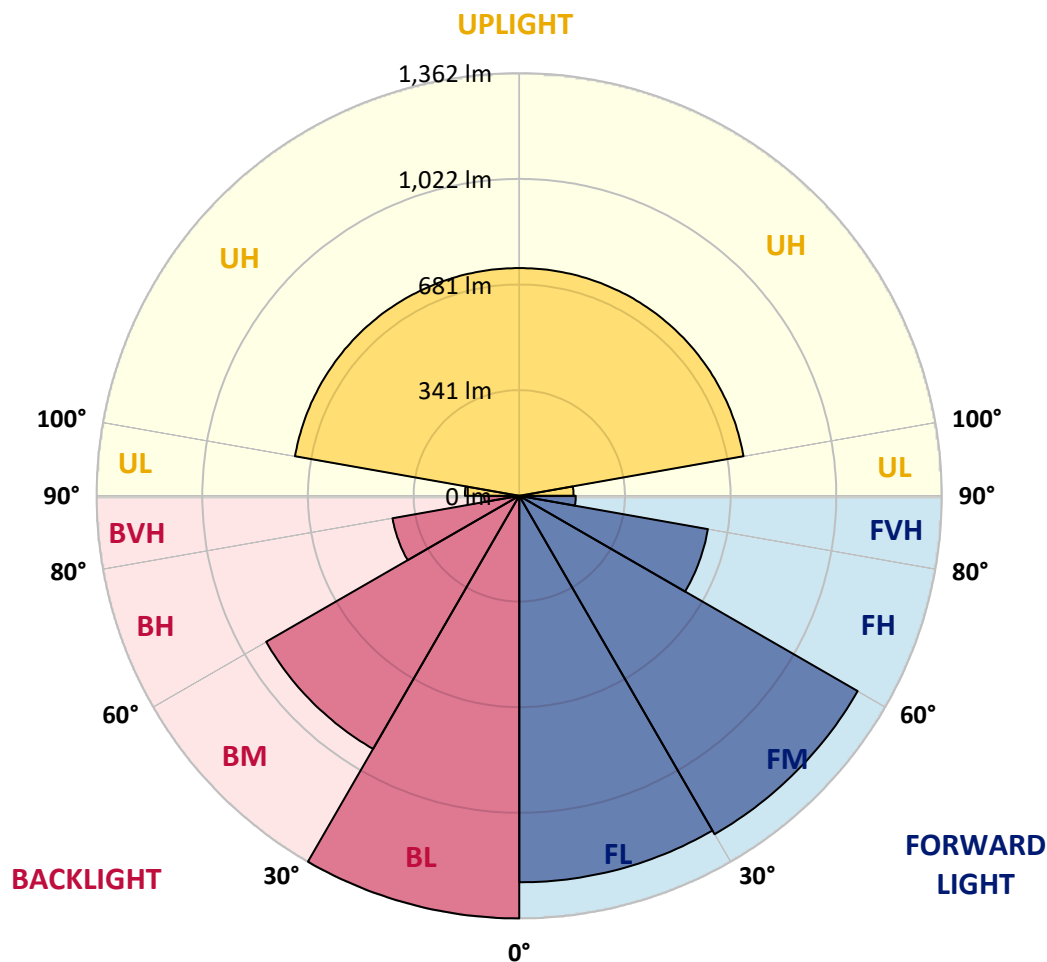
CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.8	17.7			
FM	(30°-60°)	1259.4	17.9			
FH	(60°-80°)	617.5	8.8			G0/660
FVH	(80°-90°)	182.1	2.6			G2/225
BL	(0°-30°)	1362.1	19.3	B3/2500		
BM	(30°-60°)	941.9	13.4	B1/1000		
BH	(60°-80°)	415.0	5.9	B1/500		G1/500
BVH	(80°-90°)	112.9	1.6			G2/225
UL	(90°-100°)	175.2	2.5		U3/500	
UH	(100°-180°)	734.1	10.4		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°	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2
2.5°	4543.9	4611.1	4644.7	4745.4	4779.0	4843.3	4941.3	5039.2	5204.3	5327.4	5422.5
5°	3724.1	3780.1	3841.7	3970.4	4045.9	4180.2	4336.9	4504.8	4717.4	4932.9	5044.8
7.5°	3245.7	3259.7	3349.2	3505.9	3643.0	3785.7	3956.4	4101.9	4247.4	4423.6	4535.6
10°	2982.7	3002.3	3061.0	3181.3	3298.8	3416.4	3550.7	3662.6	3810.9	3959.2	4026.3
12.5°	2904.3	2912.7	2963.1	3033.0	3108.6	3184.1	3287.6	3388.4	3519.9	3648.6	3693.4
15°	2974.3	2974.3	2982.7	3010.6	3049.8	3108.6	3186.9	3273.7	3394.0	3489.1	3536.7
17.5°	3007.8	3010.6	3033.0	3038.6	3075.0	3100.2	3170.1	3237.3	3352.0	3430.3	3455.5
20°	3097.4	3097.4	3100.2	3114.2	3119.8	3133.8	3164.5	3200.9	3296.0	3338.0	3332.4
22.5°	3125.4	3114.2	3158.9	3240.1	3237.3	3240.1	3212.1	3220.5	3273.7	3256.9	3217.7
25°	2565.8	2551.8	2602.1	2652.5	2725.2	2817.6	3047.0	3226.1	3293.2	3240.1	3153.3
27.5°	2386.7	2325.1	2311.1	2190.8	2081.7	1902.6	1885.9	1773.9	1762.7	1832.7	1897.0
30°	1695.6	1698.4	1695.6	1684.4	1676.0	1684.4	1692.8	1673.2	1678.8	1723.6	1704.0
32.5°	1653.6	1653.6	1642.4	1636.8	1611.6	1603.3	1589.3	1552.9	1558.5	1592.1	1583.7
35°	1541.7	1536.1	1538.9	1524.9	1480.1	1443.8	1438.2	1407.4	1407.4	1427.0	1418.6
37.5°	1373.8	1365.4	1399.0	1396.2	1359.8	1345.8	1331.8	1312.3	1312.3	1329.0	1312.3
40°	1242.3	1236.7	1273.1	1284.3	1261.9	1267.5	1270.3	1253.5	1270.3	1273.1	1250.7
42.5°	1102.4	1099.6	1130.4	1127.6	1108.0	1105.2	1102.4	1091.2	1119.2	1141.6	1124.8
45°	937.3	928.9	951.3	959.7	954.1	945.7	942.9	942.9	959.7	970.9	954.1
47.5°	828.2	831.0	847.8	867.4	873.0	878.6	875.8	870.2	881.4	884.2	870.2
50°	791.8	794.6	819.8	842.2	859.0	870.2	870.2	861.8	870.2	861.8	842.2
52.5°	808.6	808.6	842.2	875.8	903.8	923.3	926.1	914.9	914.9	892.6	861.8
55°	814.2	819.8	864.6	920.5	970.9	1024.1	1049.2	1040.9	1049.2	1001.7	951.3
57.5°	761.1	775.0	819.8	887.0	954.1	1038.1	1091.2	1096.8	1094.0	1052.0	990.5
60°	691.1	702.3	733.1	791.8	856.2	923.3	976.5	987.7	998.9	979.3	923.3
62.5°	643.5	649.1	674.3	716.3	761.1	797.4	817.0	814.2	825.4	819.8	777.8
65°	601.6	604.4	632.3	665.9	693.9	730.3	735.9	735.9	744.3	733.1	699.5
67.5°	556.8	556.8	579.2	610.0	643.5	674.3	682.7	685.5	696.7	685.5	660.3
70°	517.6	517.6	537.2	562.4	587.6	618.4	626.8	629.5	643.5	629.5	604.4
72.5°	481.3	481.3	498.0	520.4	542.8	568.0	576.4	579.2	590.4	576.4	556.8
75°	442.1	444.9	458.9	478.5	498.0	520.4	531.6	531.6	540.0	523.2	506.4
77.5°	402.9	405.7	419.7	436.5	453.3	475.7	481.3	484.1	492.4	475.7	458.9
80°	363.7	369.3	380.5	394.5	411.3	428.1	439.3	439.3	444.9	428.1	416.9
82.5°	327.4	333.0	341.4	352.5	369.3	386.1	397.3	397.3	400.1	386.1	372.1
85°	291.0	296.6	305.0	313.4	327.4	344.2	355.3	355.3	358.1	344.2	333.0
87.5°	257.4	263.0	268.6	277.0	288.2	305.0	316.2	316.2	316.2	305.0	293.8
90°	223.8	226.6	232.2	240.6	251.8	265.8	274.2	277.0	277.0	263.0	257.4
92.5°	198.7	198.7	204.3	209.8	221.0	232.2	240.6	243.4	243.4	235.0	226.6
95°	170.7	173.5	176.3	181.9	190.3	198.7	209.8	209.8	209.8	204.3	198.7
97.5°	151.1	148.3	151.1	153.9	162.3	167.9	176.3	179.1	179.1	173.5	170.7
100°	128.7	131.5	131.5	134.3	137.1	139.9	145.5	148.3	148.3	145.5	145.5
102.5°	120.3	117.5	117.5	117.5	117.5	117.5	120.3	120.3	123.1	120.3	117.5
105°	111.9	111.9	111.9	111.9	109.1	109.1	109.1	109.1	106.3	103.5	103.5
107.5°	109.1	109.1	109.1	109.1	106.3	106.3	103.5	103.5	100.7	97.9	95.1
110°	109.1	109.1	109.1	109.1	106.3	103.5	103.5	100.7	97.9	95.1	92.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	114.7	114.7	114.7	114.7	109.1	106.3	103.5	103.5	97.9	95.1	92.3
115°	125.9	125.9	123.1	123.1	120.3	114.7	111.9	109.1	106.3	100.7	97.9
117.5°	137.1	137.1	137.1	137.1	134.3	128.7	123.1	120.3	117.5	109.1	106.3
120°	156.7	156.7	156.7	159.5	153.9	148.3	142.7	137.1	134.3	125.9	120.3
122.5°	181.9	179.1	184.7	187.5	184.7	176.3	167.9	162.3	156.7	145.5	139.9
125°	207.1	207.1	212.6	221.0	221.0	212.6	201.5	193.1	187.5	170.7	162.3
127.5°	237.8	237.8	246.2	260.2	263.0	254.6	243.4	232.2	223.8	201.5	193.1
130°	265.8	265.8	282.6	299.4	307.8	299.4	288.2	274.2	263.0	237.8	223.8
132.5°	288.2	291.0	310.6	333.0	344.2	341.4	327.4	316.2	305.0	274.2	257.4
135°	310.6	313.4	335.8	363.7	377.7	377.7	366.5	352.5	338.6	305.0	285.4
137.5°	321.8	324.6	352.5	380.5	397.3	402.9	397.3	383.3	369.3	333.0	307.8
140°	321.8	327.4	355.3	383.3	400.1	408.5	408.5	394.5	380.5	347.0	321.8
142.5°	313.4	319.0	344.2	372.1	388.9	400.1	402.9	391.7	377.7	344.2	319.0
145°	296.6	299.4	324.6	349.7	366.5	380.5	386.1	377.7	360.9	333.0	307.8
147.5°	268.6	268.6	291.0	310.6	333.0	347.0	355.3	349.7	335.8	310.6	288.2
150°	229.4	229.4	246.2	265.8	285.4	302.2	310.6	310.6	296.6	277.0	254.6
152.5°	181.9	184.7	195.9	212.6	232.2	246.2	257.4	257.4	249.0	232.2	212.6
155°	139.9	139.9	148.3	159.5	176.3	190.3	198.7	198.7	193.1	179.1	167.9
157.5°	100.7	100.7	106.3	117.5	128.7	139.9	148.3	148.3	142.7	134.3	125.9
160°	67.2	67.2	69.9	78.3	86.7	95.1	100.7	103.5	100.7	95.1	86.7
162.5°	36.4	36.4	39.2	44.8	50.4	58.8	61.6	64.4	64.4	58.8	56.0
165°	11.2	11.2	11.2	16.8	19.6	25.2	28.0	30.8	30.8	30.8	28.0
167.5°	2.8	2.8	2.8	2.8	2.8	2.8	5.6	8.4	8.4	8.4	8.4
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	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°	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2	5898.2
2.5°	5512.1	5719.1	5948.5	6183.6	6424.2	6650.8	6841.1	6992.2	7073.3	7092.9	7081.7
5°	5145.5	5388.9	5657.6	5931.8	6245.1	6606.1	6936.2	7174.1	7297.2	7316.8	7322.4
7.5°	4622.3	4834.9	5098.0	5414.1	5808.6	6194.8	6704.0	7059.3	7258.0	7311.2	7311.2
10°	4071.1	4258.6	4423.6	4700.6	5044.8	5405.7	5839.4	6166.8	6368.2	6432.6	6376.6
12.5°	3760.5	3841.7	3953.6	4157.8	4373.3	4647.5	5022.4	5235.1	5366.6	5405.7	5372.2
15°	3561.9	3603.8	3651.4	3738.1	3889.2	4059.9	4280.9	4412.4	4493.6	4541.1	4524.4
17.5°	3466.7	3466.7	3458.3	3477.9	3517.1	3595.4	3746.5	3794.1	3830.5	3850.0	3838.9
20°	3321.2	3276.5	3240.1	3184.1	3161.7	3158.9	3195.3	3245.7	3242.9	3245.7	3223.3
22.5°	3175.7	3083.4	2993.9	2909.9	2814.8	2767.2	2733.6	2750.4	2736.4	2750.4	2736.4
25°	3105.8	2918.3	2739.2	2535.0	2364.3	2232.8	2146.1	2092.9	2003.4	2036.9	2006.2
27.5°	1927.8	1849.5	1773.9	1622.8	1480.1	1429.8	1387.8	1365.4	1348.6	1357.0	1351.4
30°	1670.4	1606.1	1547.3	1468.9	1359.8	1292.7	1242.3	1197.5	1183.6	1186.4	1183.6
32.5°	1550.1	1499.7	1427.0	1345.8	1247.9	1164.0	1105.2	1063.2	1040.9	1054.8	1043.7
35°	1387.8	1337.4	1275.9	1200.3	1116.4	1040.9	984.9	945.7	920.5	926.1	923.3
37.5°	1281.5	1233.9	1180.8	1099.6	1026.9	954.1	898.2	859.0	833.8	839.4	833.8
40°	1219.9	1166.8	1110.8	1038.1	965.3	889.8	836.6	791.8	766.7	766.7	766.7
42.5°	1094.0	1052.0	1004.5	928.9	864.6	800.2	747.1	713.5	685.5	688.3	682.7
45°	934.5	903.8	867.4	817.0	763.9	713.5	668.7	643.5	621.2	624.0	621.2
47.5°	853.4	825.4	783.4	744.3	696.7	651.9	612.8	582.0	565.2	568.0	562.4
50°	822.6	789.0	741.5	688.3	643.5	598.8	559.6	537.2	520.4	523.2	520.4
52.5°	833.8	780.6	713.5	649.1	596.0	551.2	520.4	495.2	484.1	486.9	481.3
55°	906.6	814.2	713.5	632.3	565.2	514.8	484.1	456.1	444.9	444.9	444.9
57.5°	931.7	831.0	705.1	612.8	540.0	489.6	453.3	425.3	414.1	414.1	414.1
60°	873.0	786.2	671.5	584.8	517.6	470.1	439.3	419.7	411.3	411.3	411.3
62.5°	747.1	691.1	604.4	534.4	484.1	442.1	411.3	386.1	377.7	374.9	374.9
65°	677.1	624.0	551.2	492.4	447.7	414.1	386.1	366.5	355.3	355.3	355.3
67.5°	632.3	582.0	514.8	458.9	416.9	380.5	355.3	335.8	330.2	327.4	327.4
70°	582.0	534.4	467.3	416.9	377.7	347.0	321.8	305.0	299.4	299.4	296.6
72.5°	531.6	486.9	422.5	374.9	338.6	310.6	288.2	274.2	268.6	265.8	265.8
75°	484.1	439.3	380.5	335.8	302.2	277.0	257.4	243.4	237.8	237.8	237.8
77.5°	439.3	397.3	341.4	299.4	271.4	246.2	229.4	218.2	212.6	212.6	212.6
80°	397.3	355.3	305.0	265.8	237.8	218.2	204.3	193.1	187.5	190.3	187.5
82.5°	352.5	319.0	271.4	235.0	212.6	193.1	179.1	170.7	165.1	167.9	165.1
85°	316.2	282.6	237.8	207.1	184.7	167.9	156.7	148.3	142.7	145.5	142.7
87.5°	279.8	249.0	209.8	181.9	162.3	148.3	134.3	128.7	125.9	125.9	123.1
90°	240.6	212.6	179.1	156.7	137.1	125.9	114.7	109.1	106.3	103.5	103.5
92.5°	212.6	190.3	159.5	139.9	123.1	114.7	103.5	97.9	95.1	95.1	95.1
95°	187.5	167.9	142.7	125.9	114.7	103.5	95.1	92.3	89.5	89.5	86.7
97.5°	162.3	145.5	128.7	114.7	103.5	95.1	86.7	83.9	81.1	81.1	81.1
100°	137.1	125.9	111.9	100.7	92.3	86.7	78.3	75.5	72.7	72.7	72.7
102.5°	114.7	106.3	95.1	86.7	81.1	75.5	69.9	67.2	64.4	64.4	64.4
105°	100.7	92.3	86.7	78.3	72.7	67.2	64.4	58.8	56.0	56.0	56.0
107.5°	92.3	86.7	81.1	75.5	69.9	64.4	58.8	53.2	50.4	50.4	50.4
110°	89.5	83.9	78.3	72.7	67.2	61.6	58.8	50.4	47.6	47.6	47.6



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CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	89.5	86.7	81.1	75.5	69.9	64.4	58.8	47.6	44.8	44.8	44.8
115°	95.1	89.5	83.9	78.3	72.7	67.2	61.6	47.6	44.8	44.8	44.8
117.5°	103.5	97.9	89.5	83.9	78.3	69.9	61.6	50.4	44.8	44.8	44.8
120°	117.5	109.1	100.7	92.3	83.9	75.5	64.4	50.4	42.0	44.8	44.8
122.5°	134.3	125.9	111.9	100.7	92.3	81.1	67.2	53.2	42.0	44.8	44.8
125°	156.7	145.5	128.7	114.7	100.7	86.7	69.9	53.2	42.0	44.8	47.6
127.5°	181.9	165.1	145.5	125.9	109.1	92.3	75.5	56.0	42.0	47.6	47.6
130°	209.8	190.3	165.1	139.9	120.3	97.9	78.3	56.0	44.8	44.8	44.8
132.5°	240.6	212.6	179.1	151.1	125.9	100.7	78.3	56.0	44.8	44.8	44.8
135°	263.0	229.4	193.1	159.5	131.5	103.5	81.1	56.0	42.0	42.0	42.0
137.5°	282.6	243.4	204.3	165.1	134.3	103.5	78.3	53.2	42.0	39.2	39.2
140°	293.8	249.0	204.3	165.1	131.5	100.7	72.7	50.4	36.4	36.4	36.4
142.5°	293.8	246.2	201.5	159.5	123.1	95.1	69.9	44.8	33.6	33.6	33.6
145°	282.6	235.0	190.3	151.1	114.7	86.7	61.6	42.0	30.8	30.8	30.8
147.5°	263.0	215.4	173.5	137.1	100.7	75.5	53.2	33.6	25.2	25.2	25.2
150°	235.0	190.3	151.1	117.5	86.7	61.6	44.8	28.0	19.6	19.6	19.6
152.5°	195.9	159.5	123.1	97.9	69.9	50.4	33.6	22.4	16.8	16.8	16.8
155°	153.9	125.9	97.9	75.5	53.2	36.4	25.2	16.8	11.2	11.2	11.2
157.5°	117.5	95.1	72.7	56.0	39.2	28.0	19.6	11.2	8.4	8.4	8.4
160°	81.1	64.4	50.4	39.2	25.2	19.6	14.0	8.4	5.6	5.6	5.6
162.5°	53.2	42.0	30.8	22.4	16.8	11.2	8.4	5.6	2.8	2.8	2.8
165°	25.2	19.6	16.8	11.2	8.4	5.6	2.8	2.8	0.0	0.0	0.0
167.5°	8.4	5.6	5.6	2.8	2.8	2.8	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)