

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: P690845

Luminaire Tested: **CRTK2-C01-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690845
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-T2-7050-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K 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: 6546 lumens
Efficiency: N/A
Efficacy: 109.1 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

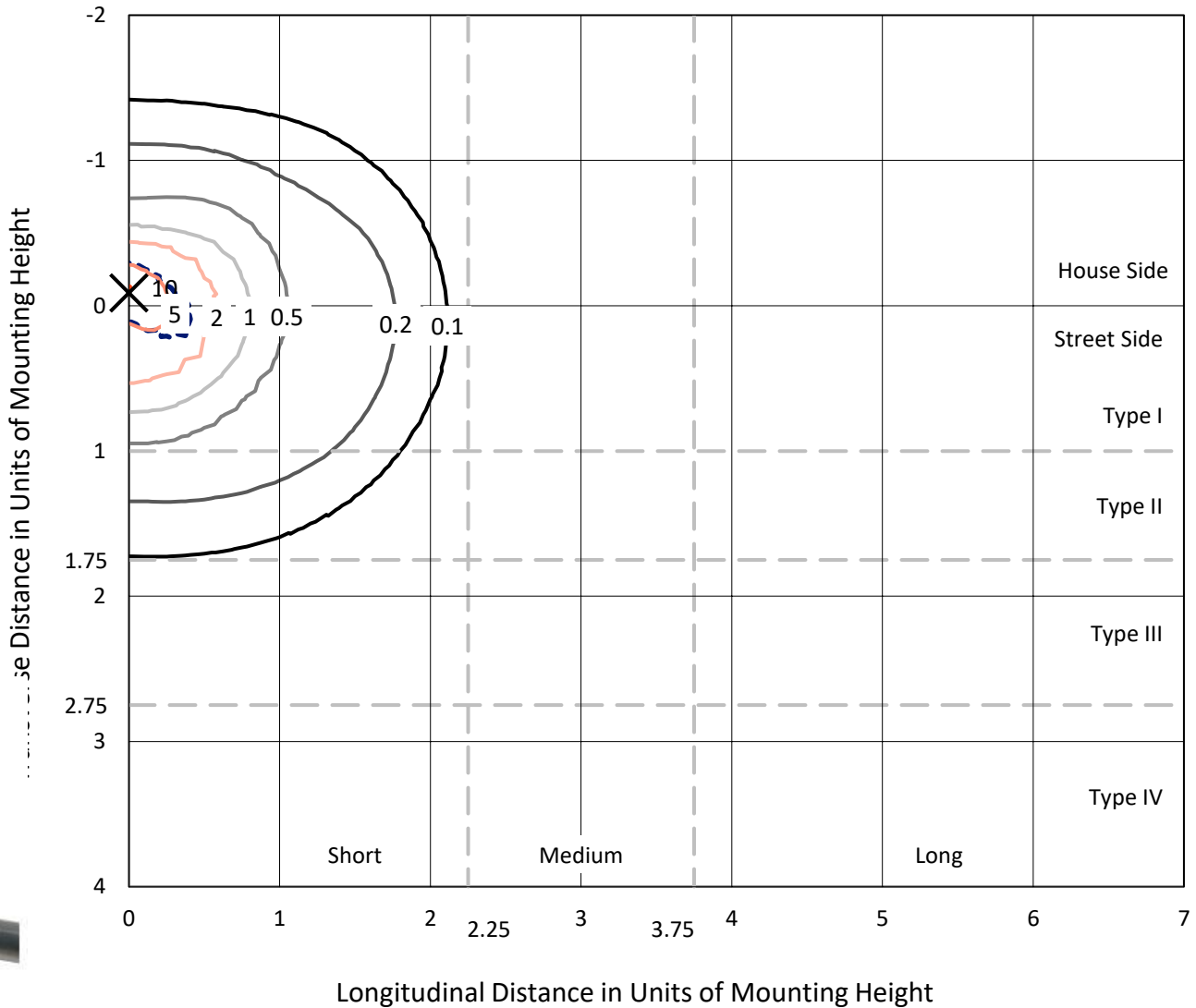


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Iso-Footcandle Lines of Horizontal Illumination

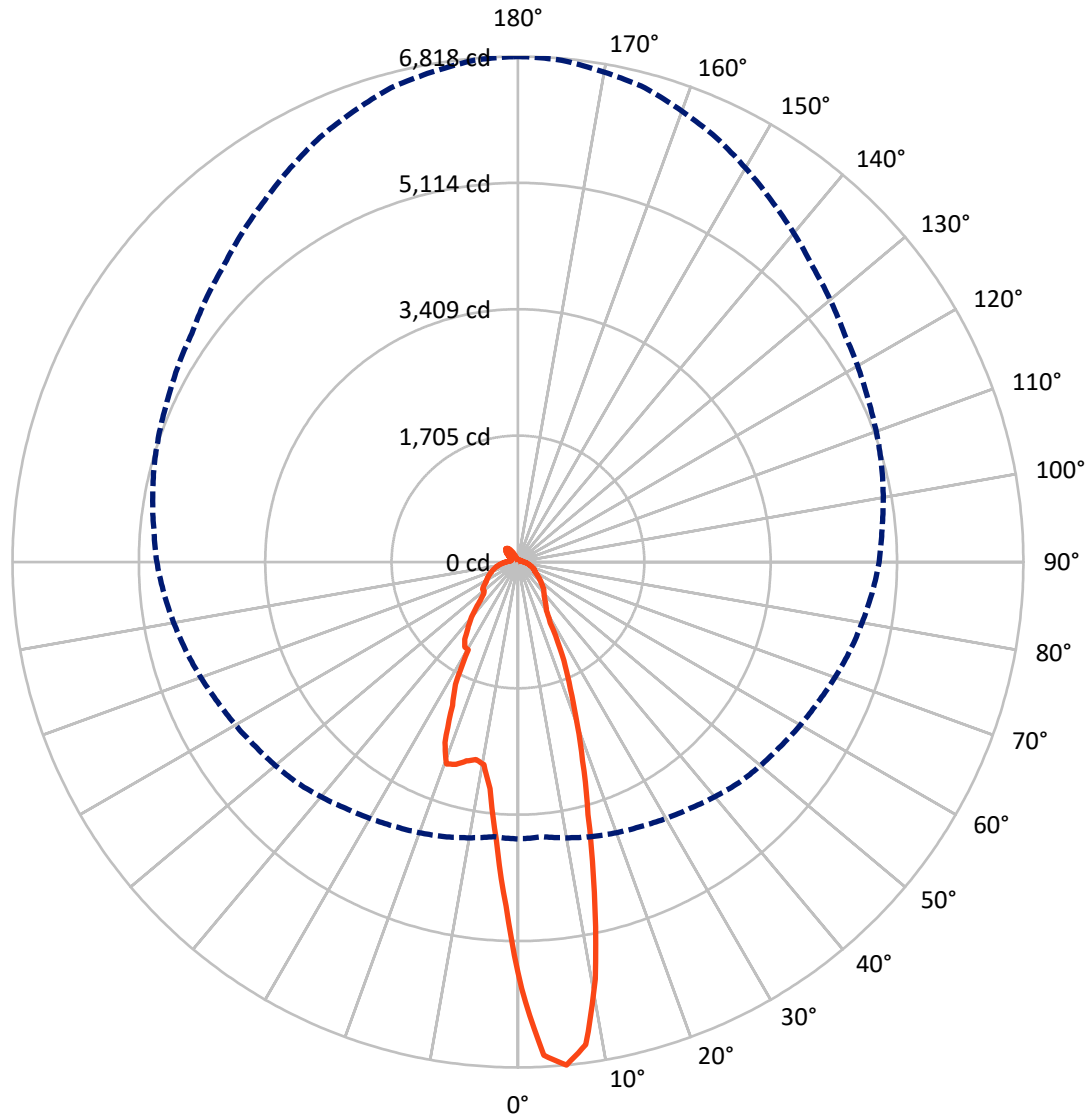
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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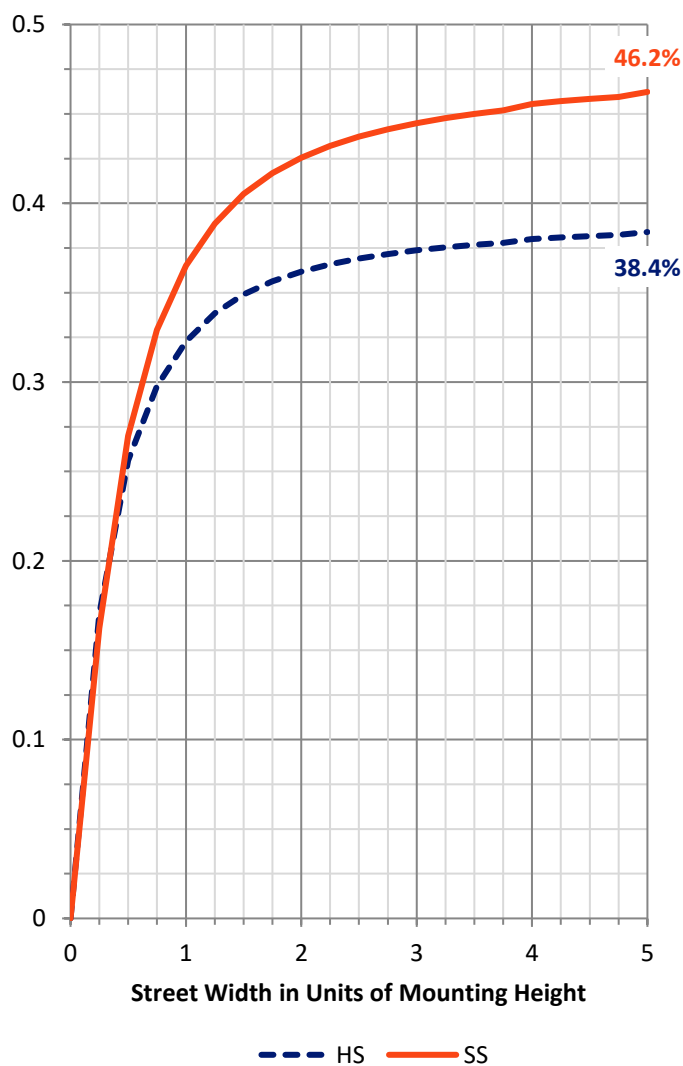
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2579.7	302.9	2882.6
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	3100.4	563.0	3663.4
	% Fixture	47.4	8.6	56.0
Total	Lumens	5680.1	865.9	6546.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.5	6.8
10°-20°	945.2	14.4
20°-30°	1028.7	15.7
30°-40°	753.0	11.5
40°-50°	633.1	9.7
50°-60°	642.9	9.8
60°-70°	546.5	8.3
70°-80°	407.8	6.2
80°-90°	277.6	4.2
90°-100°	166.7	2.5
100°-110°	95.6	1.5
110°-120°	88.0	1.3
120°-130°	127.8	2.0
130°-140°	175.8	2.7
140°-150°	145.5	2.2
150°-160°	59.2	0.9
160°-170°	7.4	0.1
170°-180°	0.0	0.0
0°-90°	5680.1	86.8
0°-180°	6546.0	100.0

Coefficient of Utilization



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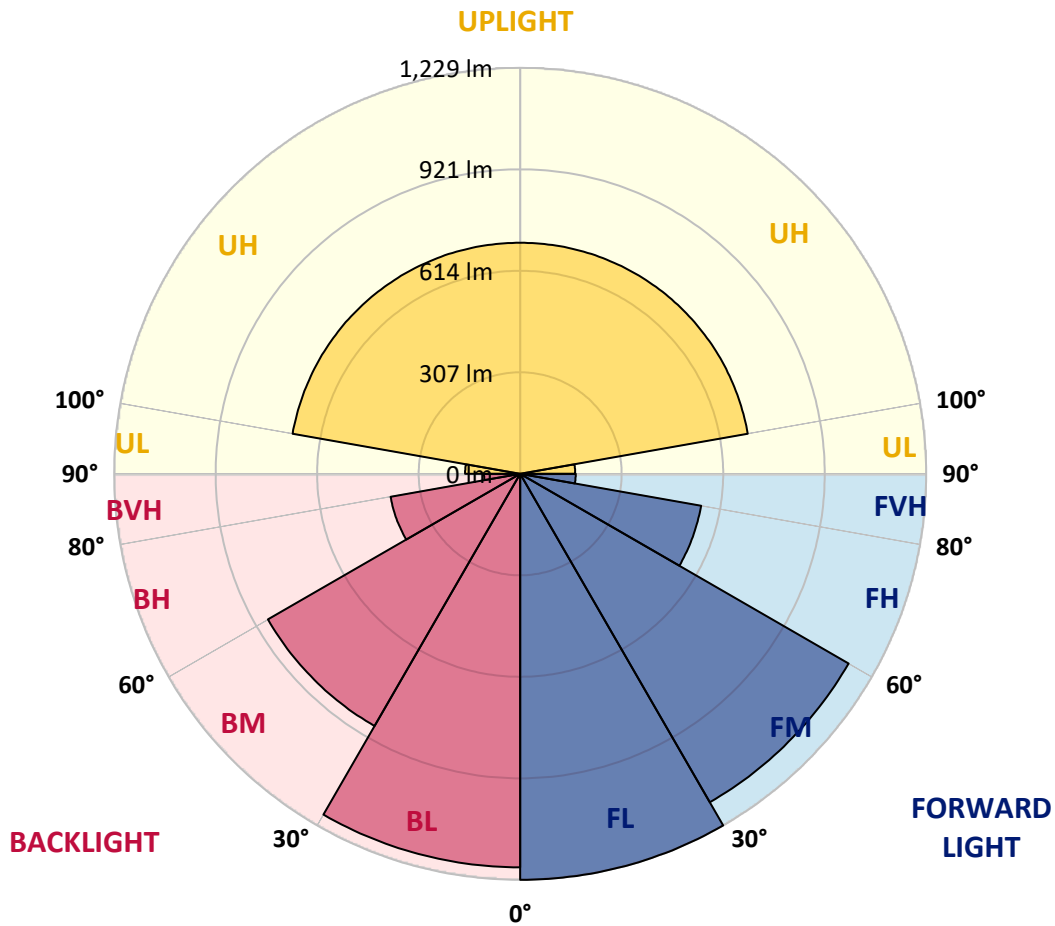
CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.6	18.8			
FM (30°-60°)	1147.6	17.5			
FH (60°-80°)	556.1	8.5			G0/660
FVH (80°-90°)	168.1	2.6			G2/225
BL (0°-30°)	1190.7	18.2	B3/2500		
BM (30°-60°)	881.3	13.5	B1/1000		
BH (60°-80°)	398.2	6.1	B1/500		G1/500
BVH (80°-90°)	109.5	1.7			G2/225
UL (90°-100°)	166.7	2.5		U3/500	
UH (100°-180°)	699.2	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°	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4
2.5°	4640.8	4632.1	4696.2	4710.8	4716.6	4783.7	4874.0	4935.3	5046.0	5153.9	5197.6
5°	3737.2	3719.7	3836.3	3935.4	4054.9	4212.3	4328.9	4468.9	4635.0	4795.3	4871.1
7.5°	3081.3	3104.6	3270.7	3474.8	3667.2	3853.8	3996.6	4116.1	4212.3	4314.3	4334.8
10°	2772.3	2792.7	2955.9	3151.2	3329.0	3518.5	3641.0	3743.0	3804.2	3880.0	3906.2
12.5°	2722.7	2737.3	2848.1	2985.1	3119.2	3291.1	3445.6	3559.3	3629.3	3690.5	3696.3
15°	2772.3	2778.1	2845.1	2935.5	3052.1	3195.0	3372.8	3501.0	3579.7	3606.0	3600.2
17.5°	2853.9	2853.9	2886.0	2961.7	3072.5	3209.5	3378.6	3509.8	3591.4	3603.1	3579.7
20°	2888.9	2894.7	2915.1	2999.6	3098.8	3224.1	3393.2	3504.0	3568.1	3536.0	3495.2
22.5°	2626.5	2614.8	2670.2	2848.1	3069.6	3294.1	3454.4	3579.7	3614.7	3506.9	3419.4
25°	2125.1	2130.9	2165.9	2253.4	2425.4	2632.3	2988.0	3369.9	3635.1	3594.3	3463.1
27.5°	1854.0	1836.5	1845.3	1859.8	1836.5	1792.8	1833.6	1824.9	1819.0	1924.0	1935.6
30°	1361.4	1364.3	1378.8	1405.1	1460.5	1542.1	1629.5	1679.1	1722.8	1804.4	1792.8
32.5°	1352.6	1355.5	1364.3	1387.6	1416.7	1472.1	1527.5	1547.9	1594.6	1661.6	1641.2
35°	1265.2	1256.4	1279.7	1300.1	1308.9	1332.2	1375.9	1405.1	1434.2	1480.9	1469.2
37.5°	1122.3	1125.2	1171.9	1203.9	1212.7	1244.7	1285.6	1308.9	1340.9	1381.8	1361.4
40°	999.9	1002.8	1058.2	1093.2	1113.6	1157.3	1218.5	1247.7	1300.1	1332.2	1308.9
42.5°	860.0	871.6	909.5	950.3	962.0	988.2	1029.0	1066.9	1134.0	1177.7	1163.1
45°	717.1	722.9	749.2	790.0	807.5	836.6	874.5	909.5	962.0	997.0	994.0
47.5°	632.6	638.4	661.7	696.7	731.7	769.6	810.4	845.4	894.9	924.1	912.4
50°	597.6	603.4	632.6	673.4	717.1	766.7	816.2	854.1	900.8	918.3	903.7
52.5°	603.4	603.4	644.2	696.7	757.9	825.0	886.2	932.8	970.7	982.4	950.3
55°	571.4	580.1	623.8	696.7	790.0	894.9	999.9	1099.0	1154.4	1142.7	1081.5
57.5°	521.8	530.5	562.6	641.3	740.4	865.8	1014.5	1136.9	1203.9	1212.7	1151.5
60°	492.7	498.5	527.6	588.9	676.3	778.3	912.4	1011.5	1087.3	1110.7	1066.9
62.5°	466.4	472.2	495.6	542.2	606.3	685.0	760.8	825.0	886.2	909.5	892.0
65°	437.3	440.2	463.5	504.3	556.8	623.8	688.0	734.6	784.2	798.7	778.3
67.5°	408.1	411.0	431.4	469.3	518.9	580.1	629.7	682.1	731.7	743.4	728.8
70°	381.9	384.8	402.3	437.3	481.0	539.3	585.9	620.9	670.5	682.1	664.6
72.5°	355.6	358.6	376.0	408.1	448.9	501.4	542.2	577.2	618.0	620.9	606.3
75°	329.4	332.3	346.9	376.0	411.0	463.5	501.4	530.5	565.5	565.5	548.0
77.5°	300.3	306.1	317.7	344.0	376.0	425.6	460.6	489.7	518.9	516.0	498.5
80°	274.0	276.9	288.6	311.9	341.1	387.7	422.7	446.0	472.2	469.3	454.8
82.5°	244.9	247.8	256.5	279.8	306.1	349.8	384.8	408.1	431.4	425.6	411.0
85°	215.7	218.6	230.3	247.8	274.0	314.8	346.9	370.2	387.7	381.9	370.2
87.5°	192.4	192.4	201.1	218.6	242.0	279.8	309.0	332.3	346.9	344.0	332.3
90°	166.2	169.1	174.9	189.5	209.9	242.0	271.1	291.5	306.1	300.3	288.6
92.5°	145.8	145.8	151.6	166.2	183.7	212.8	239.0	256.5	268.2	265.3	256.5
95°	125.3	128.3	131.2	142.8	157.4	180.7	204.1	221.5	233.2	230.3	224.5
97.5°	110.8	113.7	116.6	122.4	137.0	151.6	172.0	186.6	198.2	195.3	189.5
100°	102.0	102.0	102.0	107.9	116.6	128.3	142.8	154.5	160.3	163.2	157.4
102.5°	93.3	93.3	96.2	96.2	102.0	107.9	116.6	125.3	128.3	128.3	128.3
105°	90.4	90.4	93.3	93.3	96.2	99.1	104.9	107.9	110.8	110.8	107.9
107.5°	90.4	90.4	90.4	90.4	93.3	96.2	99.1	102.0	102.0	102.0	99.1
110°	93.3	93.3	93.3	93.3	93.3	96.2	96.2	99.1	99.1	96.2	96.2



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CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	96.2	96.2	96.2	96.2	96.2	99.1	99.1	99.1	99.1	96.2	96.2
115°	102.0	102.0	102.0	104.9	104.9	104.9	104.9	104.9	104.9	102.0	99.1
117.5°	113.7	113.7	113.7	113.7	116.6	116.6	116.6	116.6	116.6	110.8	110.8
120°	128.3	125.3	128.3	131.2	134.1	134.1	134.1	134.1	134.1	128.3	125.3
122.5°	142.8	142.8	145.8	151.6	157.4	160.3	157.4	157.4	157.4	148.7	145.8
125°	160.3	160.3	169.1	180.7	189.5	192.4	189.5	189.5	189.5	180.7	174.9
127.5°	180.7	180.7	192.4	209.9	224.5	233.2	230.3	230.3	230.3	215.7	207.0
130°	201.1	201.1	218.6	242.0	265.3	271.1	274.0	276.9	276.9	259.4	247.8
132.5°	215.7	218.6	239.0	271.1	300.3	309.0	317.7	320.7	320.7	300.3	282.8
135°	230.3	233.2	259.4	297.3	329.4	349.8	358.6	361.5	364.4	341.1	320.7
137.5°	239.0	242.0	271.1	314.8	346.9	373.1	393.5	399.4	399.4	373.1	346.9
140°	239.0	242.0	274.0	314.8	349.8	381.9	405.2	416.9	416.9	390.6	367.3
142.5°	233.2	239.0	268.2	309.0	344.0	376.0	402.3	413.9	413.9	390.6	367.3
145°	221.5	224.5	253.6	288.6	323.6	361.5	390.6	402.3	402.3	379.0	355.6
147.5°	201.1	204.1	227.4	259.4	294.4	332.3	361.5	376.0	373.1	352.7	332.3
150°	174.9	174.9	195.3	221.5	256.5	291.5	320.7	335.2	335.2	314.8	297.3
152.5°	142.8	142.8	157.4	177.8	207.0	242.0	265.3	279.8	279.8	265.3	250.7
155°	110.8	110.8	122.4	137.0	160.3	186.6	204.1	218.6	218.6	207.0	195.3
157.5°	78.7	78.7	90.4	102.0	119.5	139.9	154.5	163.2	166.2	154.5	148.7
160°	52.5	52.5	58.3	67.0	81.6	96.2	104.9	113.7	116.6	107.9	104.9
162.5°	29.2	29.2	32.1	40.8	49.6	58.3	67.0	72.9	72.9	70.0	67.0
165°	8.7	8.7	11.7	14.6	20.4	26.2	29.2	32.1	35.0	35.0	32.1
167.5°	0.0	0.0	2.9	2.9	2.9	2.9	5.8	5.8	8.7	8.7	8.7
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°	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4	5754.4
2.5°	5288.0	5451.2	5629.1	5801.1	6010.9	6229.6	6430.7	6567.7	6640.6	6663.9	6663.9
5°	4929.4	5078.1	5209.3	5372.5	5626.1	5955.6	6319.9	6623.1	6795.1	6815.5	6818.4
7.5°	4369.7	4492.2	4629.2	4774.9	4999.4	5293.8	5774.8	6264.6	6544.4	6596.9	6576.5
10°	3912.1	3987.9	4069.5	4124.9	4282.3	4500.9	4827.4	5308.4	5652.4	5693.2	5722.3
12.5°	3699.3	3710.9	3687.6	3699.3	3751.7	3853.8	4014.1	4291.0	4515.5	4553.4	4573.8
15°	3591.4	3533.1	3439.8	3352.4	3305.7	3314.5	3349.5	3463.1	3501.0	3565.2	3536.0
17.5°	3541.8	3410.7	3264.9	3095.8	2990.9	2883.0	2824.7	2804.3	2789.8	2792.7	2818.9
20°	3416.5	3267.8	3034.6	2813.1	2644.0	2495.3	2370.0	2279.6	2230.1	2206.7	2224.2
22.5°	3285.3	3055.0	2781.0	2542.0	2300.0	2110.5	1967.7	1836.5	1763.6	1784.0	1760.7
25°	3288.2	2944.3	2617.8	2302.9	2075.6	1824.9	1597.5	1460.5	1340.9	1364.3	1396.3
27.5°	2072.6	1982.3	1749.1	1565.4	1338.0	1212.7	1099.0	1002.8	935.7	938.7	929.9
30°	1757.8	1664.5	1547.9	1402.2	1230.2	1084.4	953.2	842.5	778.3	760.8	757.9
32.5°	1623.7	1545.0	1437.1	1294.3	1136.9	991.1	860.0	757.9	693.8	690.9	690.9
35°	1445.9	1373.0	1282.6	1160.2	1026.1	892.0	769.6	682.1	629.7	629.7	626.7
37.5°	1335.1	1271.0	1183.5	1069.8	950.3	816.2	708.4	629.7	574.3	571.4	574.3
40°	1276.8	1209.8	1125.2	1017.4	897.9	769.6	667.6	585.9	545.1	542.2	539.3
42.5°	1160.2	1107.7	1034.9	935.7	830.8	717.1	620.9	548.0	513.1	510.1	513.1
45°	985.3	947.4	897.9	825.0	737.5	641.3	556.8	501.4	466.4	466.4	466.4
47.5°	903.7	868.7	813.3	740.4	664.6	574.3	504.3	457.7	425.6	425.6	425.6
50°	883.3	839.5	766.7	685.0	603.4	524.7	460.6	413.9	390.6	387.7	390.6
52.5°	912.4	845.4	746.3	650.1	559.7	483.9	422.7	379.0	355.6	355.6	355.6
55°	1017.4	894.9	763.8	641.3	533.5	448.9	387.7	344.0	320.7	317.7	320.7
57.5°	1087.3	932.8	769.6	632.6	516.0	425.6	358.6	311.9	288.6	285.7	288.6
60°	1026.1	900.8	743.4	609.3	501.4	408.1	338.2	291.5	268.2	265.3	265.3
62.5°	851.2	778.3	664.6	551.0	463.5	381.9	317.7	274.0	250.7	247.8	250.7
65°	755.0	690.9	591.8	501.4	425.6	355.6	300.3	262.4	239.0	239.0	239.0
67.5°	702.5	644.2	551.0	463.5	393.5	329.4	276.9	242.0	221.5	221.5	221.5
70°	641.3	583.0	498.5	419.8	355.6	300.3	253.6	218.6	201.1	198.2	201.1
72.5°	588.9	530.5	451.8	379.0	320.7	271.1	230.3	198.2	183.7	180.7	183.7
75°	530.5	475.2	399.4	335.2	285.7	242.0	207.0	177.8	166.2	163.2	163.2
77.5°	481.0	428.5	358.6	300.3	256.5	215.7	183.7	163.2	151.6	148.7	148.7
80°	437.3	387.7	320.7	268.2	227.4	192.4	166.2	145.8	134.1	134.1	134.1
82.5°	390.6	346.9	285.7	236.1	201.1	172.0	145.8	128.3	119.5	119.5	119.5
85°	352.7	309.0	250.7	209.9	174.9	148.7	128.3	113.7	104.9	104.9	104.9
87.5°	311.9	274.0	221.5	183.7	154.5	131.2	110.8	96.2	93.3	90.4	90.4
90°	271.1	236.1	189.5	157.4	131.2	110.8	93.3	81.6	78.7	75.8	75.8
92.5°	242.0	209.9	172.0	142.8	119.5	99.1	87.5	75.8	72.9	72.9	70.0
95°	209.9	183.7	151.6	128.3	107.9	93.3	81.6	72.9	70.0	70.0	67.0
97.5°	180.7	157.4	134.1	116.6	99.1	87.5	75.8	70.0	64.1	64.1	64.1
100°	151.6	134.1	116.6	99.1	90.4	78.7	70.0	64.1	61.2	58.3	58.3
102.5°	122.4	110.8	96.2	87.5	75.8	67.0	61.2	55.4	52.5	52.5	52.5
105°	104.9	96.2	87.5	78.7	70.0	61.2	55.4	49.6	46.6	46.6	46.6
107.5°	96.2	90.4	81.6	72.9	67.0	58.3	52.5	43.7	40.8	43.7	43.7
110°	93.3	87.5	78.7	72.9	64.1	58.3	52.5	40.8	37.9	40.8	40.8



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CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	93.3	87.5	81.6	72.9	67.0	58.3	52.5	40.8	37.9	37.9	37.9
115°	96.2	93.3	84.5	78.7	70.0	61.2	52.5	40.8	37.9	37.9	37.9
117.5°	107.9	102.0	93.3	84.5	75.8	64.1	55.4	40.8	37.9	37.9	37.9
120°	119.5	113.7	104.9	93.3	81.6	70.0	58.3	40.8	35.0	37.9	37.9
122.5°	139.9	131.2	119.5	104.9	90.4	75.8	58.3	43.7	32.1	37.9	37.9
125°	166.2	154.5	137.0	116.6	99.1	81.6	61.2	43.7	35.0	37.9	37.9
127.5°	195.3	180.7	157.4	131.2	107.9	84.5	64.1	43.7	35.0	35.0	37.9
130°	233.2	209.9	177.8	145.8	116.6	90.4	64.1	43.7	35.0	35.0	35.0
132.5°	265.3	236.1	195.3	157.4	122.4	93.3	64.1	43.7	32.1	32.1	32.1
135°	297.3	259.4	209.9	166.2	128.3	93.3	64.1	40.8	32.1	32.1	32.1
137.5°	323.6	274.0	221.5	169.1	128.3	90.4	61.2	37.9	29.2	29.2	29.2
140°	338.2	282.8	224.5	169.1	122.4	87.5	55.4	35.0	26.2	26.2	26.2
142.5°	338.2	279.8	221.5	163.2	116.6	81.6	49.6	29.2	23.3	23.3	23.3
145°	326.5	268.2	209.9	154.5	107.9	72.9	43.7	26.2	17.5	17.5	20.4
147.5°	306.1	247.8	192.4	139.9	96.2	61.2	37.9	20.4	14.6	14.6	14.6
150°	271.1	218.6	166.2	122.4	81.6	52.5	32.1	17.5	11.7	11.7	11.7
152.5°	227.4	180.7	139.9	102.0	67.0	40.8	23.3	14.6	8.7	8.7	8.7
155°	180.7	142.8	110.8	78.7	49.6	32.1	17.5	11.7	8.7	8.7	8.7
157.5°	134.1	107.9	81.6	58.3	37.9	23.3	14.6	8.7	5.8	5.8	5.8
160°	93.3	75.8	55.4	37.9	23.3	14.6	8.7	5.8	2.9	2.9	2.9
162.5°	61.2	46.6	35.0	23.3	14.6	8.7	5.8	2.9	2.9	2.9	2.9
165°	29.2	23.3	17.5	11.7	5.8	5.8	2.9	2.9	0.0	0.0	0.0
167.5°	8.7	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)