

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: P690877

Luminaire Tested: **CRTK2-C01-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690877
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-C01-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K 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: 6677 lumens
Efficiency: N/A
Efficacy: 111.3 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

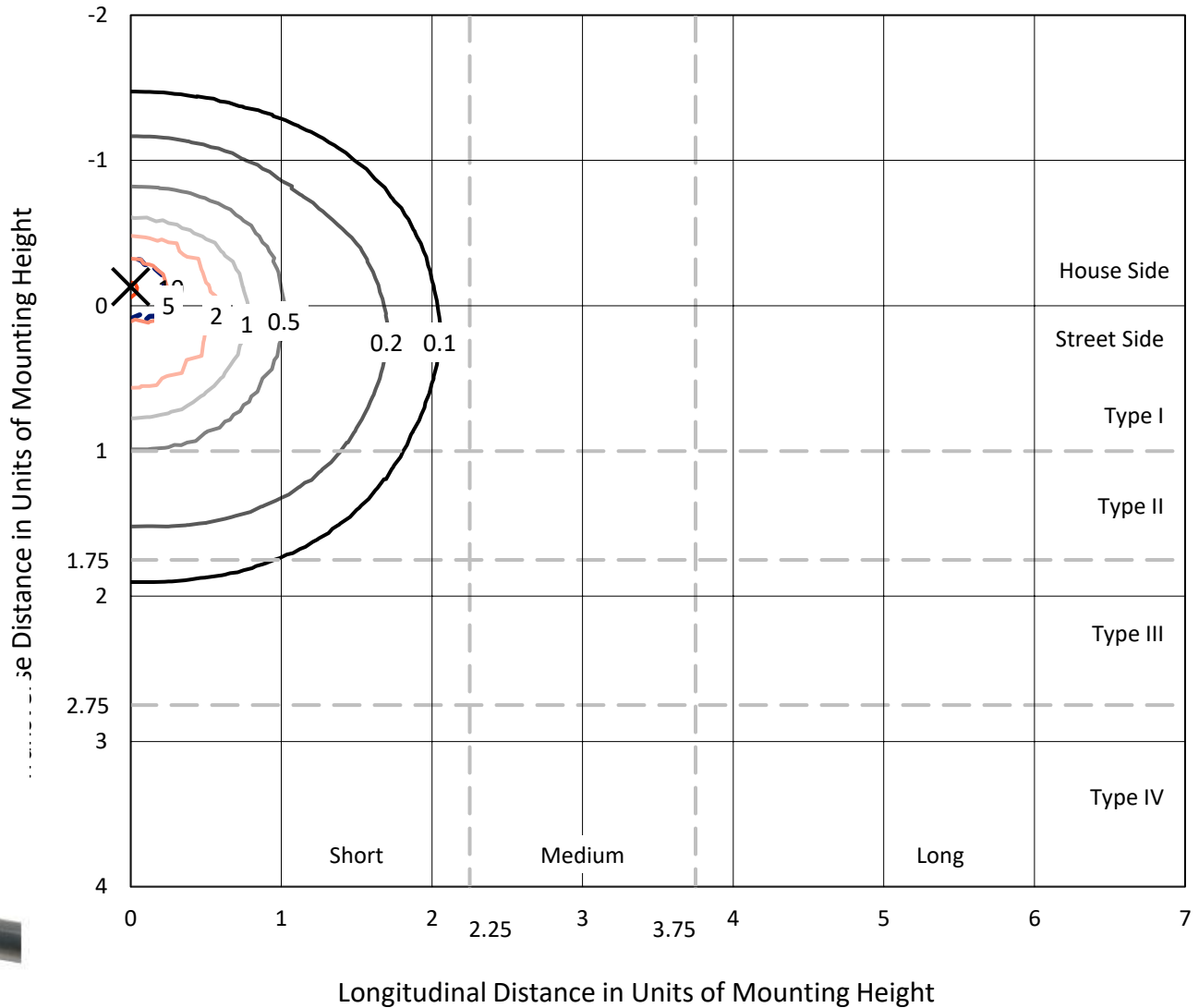


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Iso-Footcandle Lines of Horizontal Illumination

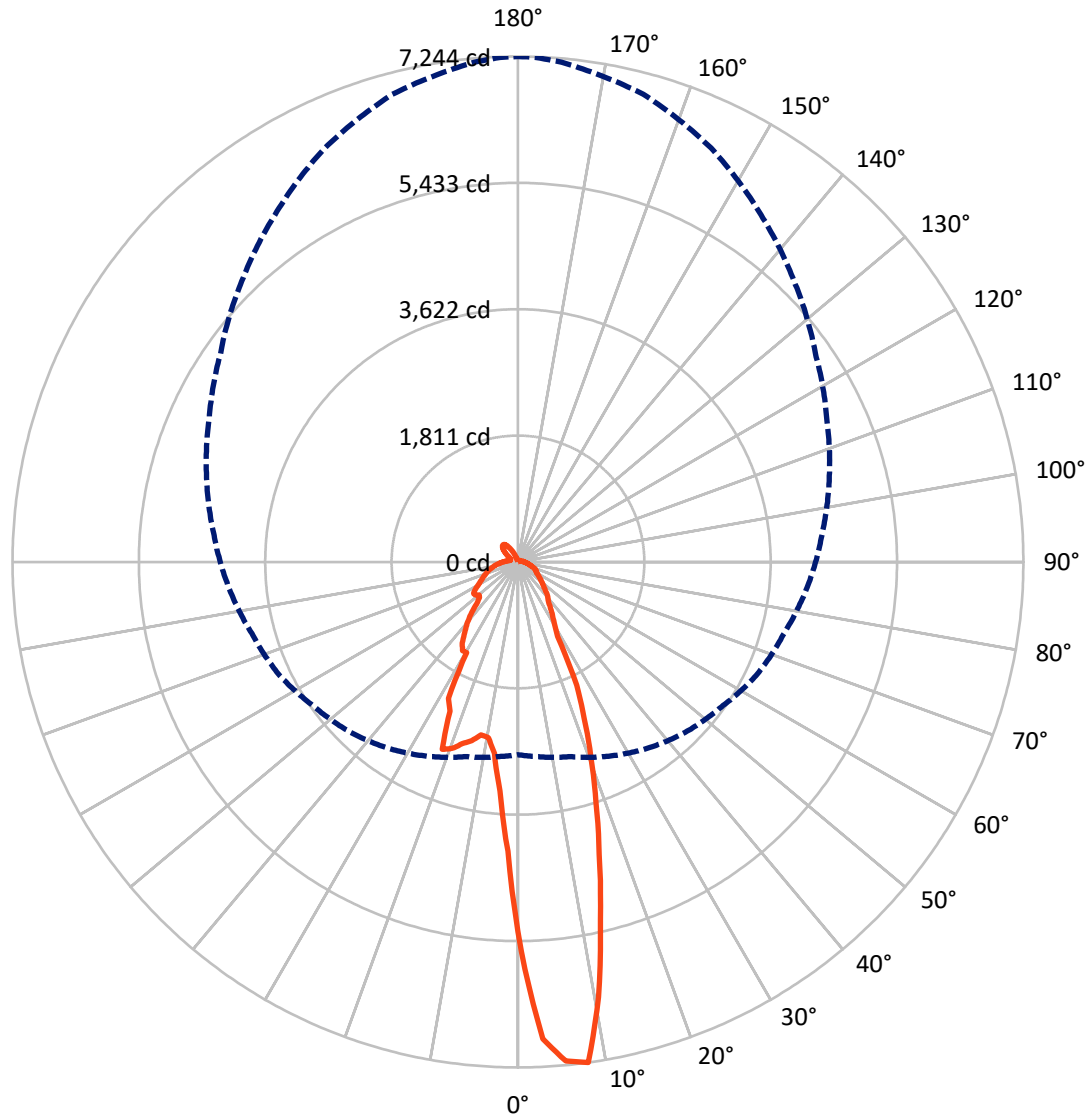
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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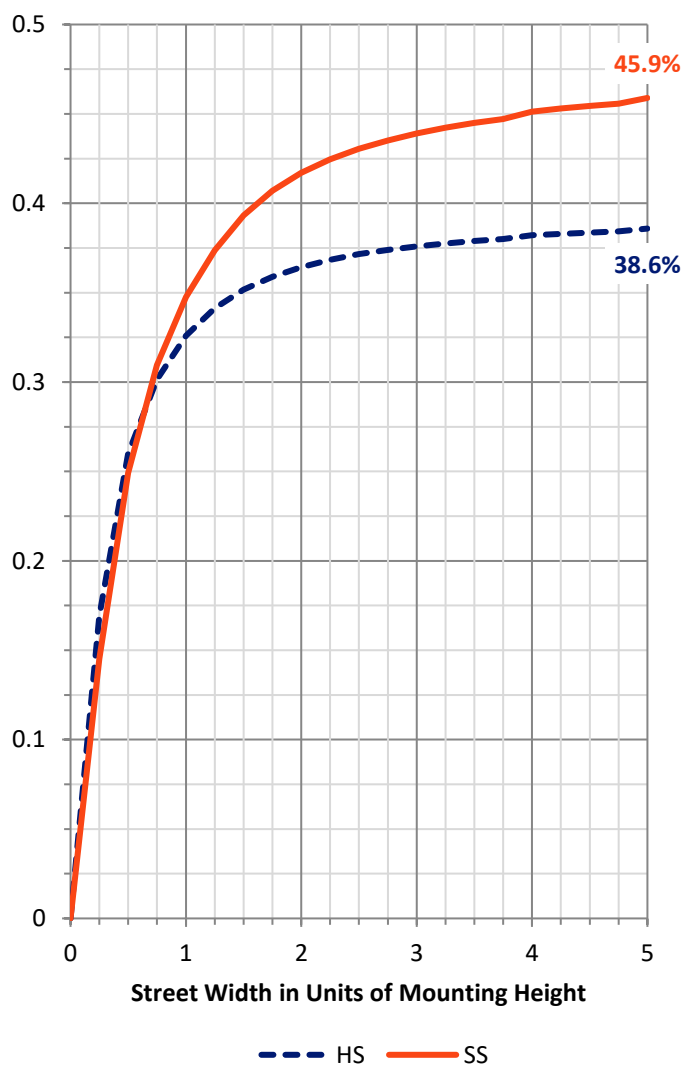
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2643.5	275.7	2919.2
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	3152.4	605.4	3757.8
	% Fixture	47.2	9.1	56.3
Total	Lumens	5795.9	881.1	6677.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.3	6.7
10°-20°	957.0	14.3
20°-30°	1056.8	15.8
30°-40°	766.4	11.5
40°-50°	645.7	9.7
50°-60°	659.2	9.9
60°-70°	561.8	8.4
70°-80°	418.8	6.3
80°-90°	282.7	4.2
90°-100°	169.0	2.5
100°-110°	97.2	1.5
110°-120°	90.9	1.4
120°-130°	132.4	2.0
130°-140°	179.8	2.7
140°-150°	146.4	2.2
150°-160°	58.4	0.9
160°-170°	7.1	0.1
170°-180°	0.0	0.0
0°-90°	5795.9	86.8
0°-180°	6677.0	100.0

Coefficient of Utilization



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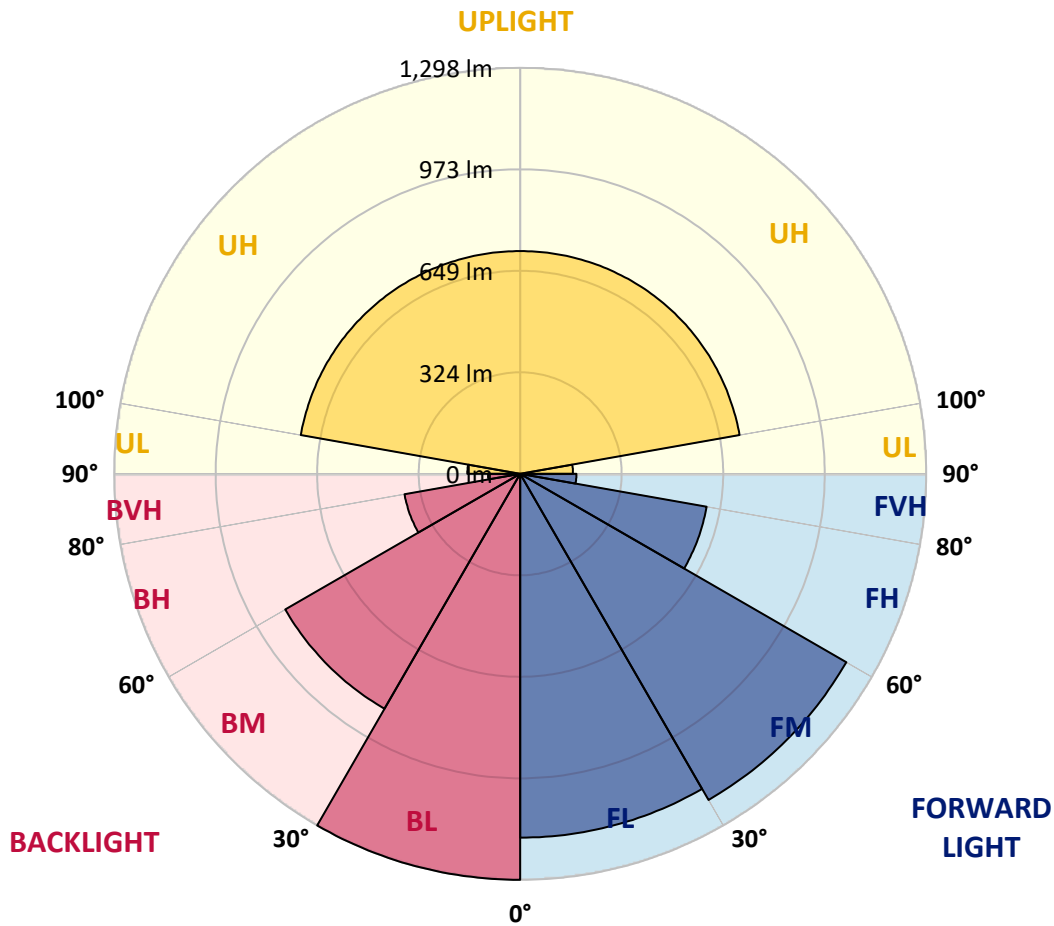
CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.1	17.4			
FM (30°-60°)	1204.1	18.0			
FH (60°-80°)	605.2	9.1			G0/660
FVH (80°-90°)	179.8	2.7			G2/225
BL (0°-30°)	1298.0	19.4	B3/2500		
BM (30°-60°)	867.3	13.0	B1/1000		
BH (60°-80°)	375.4	5.6	B1/500		G1/500
BVH (80°-90°)	102.9	1.5			G2/225
UL (90°-100°)	169.0	2.5		U3/500	
UH (100°-180°)	712.1	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°	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3
2.5°	4143.7	4239.9	4248.6	4353.5	4432.2	4505.1	4557.5	4709.1	4863.5	5009.2	5093.7
5°	3289.9	3336.5	3421.1	3534.7	3680.4	3794.0	3957.2	4170.0	4373.9	4630.4	4755.7
7.5°	2762.5	2797.5	2887.8	3071.4	3255.0	3429.8	3587.2	3791.1	3948.5	4161.2	4266.1
10°	2552.7	2573.1	2648.8	2777.1	2951.9	3097.6	3234.6	3389.0	3528.9	3724.1	3799.9
12.5°	2532.3	2541.0	2602.2	2692.6	2794.5	2914.0	3027.7	3158.8	3307.4	3461.9	3520.1
15°	2643.0	2637.2	2657.6	2710.0	2768.3	2861.6	2966.5	3085.9	3228.7	3342.4	3389.0
17.5°	2721.7	2718.8	2756.7	2780.0	2835.3	2890.7	2995.6	3088.9	3228.7	3319.1	3345.3
20°	2835.3	2841.2	2852.8	2896.5	2919.8	2957.7	3021.8	3077.2	3196.7	3249.1	3243.3
22.5°	2896.5	2893.6	2943.2	3045.1	3071.4	3091.8	3103.4	3126.7	3193.8	3190.8	3147.1
25°	2348.7	2354.5	2366.2	2453.6	2564.3	2745.0	2893.6	3126.7	3252.0	3205.4	3112.2
27.5°	2194.3	2176.8	2115.6	2066.0	1917.4	1818.3	1725.1	1684.3	1704.7	1739.7	1835.8
30°	1494.9	1497.8	1503.6	1512.4	1526.9	1564.8	1591.1	1594.0	1614.4	1672.6	1652.2
32.5°	1497.8	1500.7	1492.0	1500.7	1494.9	1509.5	1506.5	1494.9	1512.4	1564.8	1544.4
35°	1407.5	1401.6	1407.5	1410.4	1378.3	1366.7	1363.8	1355.0	1366.7	1392.9	1375.4
37.5°	1267.6	1264.7	1290.9	1305.5	1279.3	1279.3	1273.4	1261.8	1270.5	1293.8	1270.5
40°	1145.2	1148.1	1186.0	1209.3	1200.6	1209.3	1218.1	1215.1	1235.5	1244.3	1215.1
42.5°	1011.2	1005.3	1043.2	1060.7	1043.2	1049.0	1046.1	1049.0	1089.8	1107.3	1086.9
45°	845.1	853.8	871.3	894.6	891.7	900.4	897.5	903.3	929.6	938.3	923.7
47.5°	751.8	757.6	778.0	804.3	818.8	833.4	833.4	836.3	853.8	856.7	842.2
50°	731.4	737.2	763.5	792.6	815.9	833.4	842.2	839.2	848.0	842.2	821.8
52.5°	766.4	766.4	807.2	842.2	871.3	903.3	915.0	903.3	903.3	880.0	848.0
55°	781.0	783.9	833.4	894.6	950.0	1008.2	1046.1	1043.2	1040.3	1002.4	944.1
57.5°	734.3	743.1	792.6	862.5	938.3	1031.6	1086.9	1095.7	1095.7	1046.1	982.0
60°	667.3	673.1	711.0	769.3	845.1	915.0	973.3	979.1	996.6	970.4	912.1
62.5°	611.9	617.8	649.8	693.5	748.9	792.6	810.1	810.1	818.8	810.1	769.3
65°	571.1	574.1	600.3	638.2	676.1	711.0	728.5	722.7	734.3	722.7	690.6
67.5°	533.3	533.3	556.6	585.7	620.7	661.5	673.1	679.0	690.6	676.1	646.9
70°	495.4	498.3	521.6	544.9	577.0	606.1	617.8	620.7	635.3	617.8	597.4
72.5°	463.3	463.3	483.7	507.0	530.4	559.5	568.2	574.1	582.8	565.3	547.8
75°	425.4	428.4	445.8	466.2	486.6	515.8	524.5	527.4	536.2	515.8	498.3
77.5°	390.5	393.4	408.0	425.4	445.8	469.2	477.9	483.7	486.6	469.2	451.7
80°	355.5	358.4	370.1	387.6	405.0	428.4	434.2	437.1	442.9	422.5	410.9
82.5°	323.5	323.5	332.2	346.8	364.3	384.7	393.4	396.3	399.2	381.7	370.1
85°	285.6	285.6	294.3	308.9	323.5	343.9	352.6	355.5	355.5	340.9	329.3
87.5°	253.5	253.5	259.3	271.0	282.7	303.1	311.8	317.6	314.7	303.1	291.4
90°	221.5	221.5	227.3	236.0	247.7	265.2	273.9	276.8	276.8	262.3	253.5
92.5°	192.3	192.3	198.2	206.9	215.6	230.2	238.9	244.8	244.8	233.1	224.4
95°	166.1	166.1	169.0	177.8	186.5	198.2	204.0	209.8	209.8	204.0	195.2
97.5°	142.8	142.8	145.7	151.5	157.4	166.1	171.9	177.8	177.8	174.8	169.0
100°	125.3	125.3	125.3	128.2	134.0	137.0	142.8	148.6	148.6	145.7	142.8
102.5°	113.6	113.6	113.6	113.6	113.6	116.6	116.6	119.5	119.5	119.5	116.6
105°	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	104.9	102.0	99.1
107.5°	107.8	104.9	104.9	104.9	104.9	102.0	102.0	102.0	99.1	96.2	93.2
110°	107.8	107.8	107.8	107.8	104.9	102.0	102.0	99.1	96.2	93.2	90.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	113.6	113.6	113.6	110.7	107.8	107.8	104.9	102.0	99.1	93.2	90.3
115°	122.4	122.4	122.4	122.4	119.5	113.6	110.7	107.8	102.0	99.1	96.2
117.5°	137.0	137.0	137.0	137.0	131.1	128.2	122.4	119.5	113.6	107.8	104.9
120°	154.4	154.4	157.4	157.4	154.4	148.6	139.9	137.0	131.1	122.4	116.6
122.5°	180.7	177.8	183.6	183.6	183.6	177.8	166.1	160.3	154.4	142.8	137.0
125°	206.9	206.9	212.7	218.6	221.5	212.7	201.1	192.3	183.6	169.0	160.3
127.5°	236.0	236.0	247.7	259.3	265.2	256.4	241.9	233.1	221.5	201.1	189.4
130°	265.2	265.2	282.7	300.1	308.9	303.1	288.5	276.8	262.3	236.0	221.5
132.5°	291.4	291.4	311.8	335.1	346.8	343.9	329.3	317.6	306.0	273.9	253.5
135°	311.8	314.7	340.9	367.2	381.7	384.7	370.1	355.5	340.9	306.0	282.7
137.5°	323.5	329.3	355.5	387.6	402.1	410.9	402.1	387.6	370.1	332.2	306.0
140°	326.4	329.3	358.4	390.5	405.0	416.7	416.7	399.2	384.7	346.8	317.6
142.5°	317.6	320.5	349.7	378.8	393.4	408.0	410.9	396.3	381.7	346.8	317.6
145°	297.2	303.1	329.3	352.6	373.0	387.6	393.4	384.7	367.2	335.1	308.9
147.5°	271.0	273.9	297.2	317.6	338.0	355.5	364.3	355.5	340.9	311.8	288.5
150°	230.2	233.1	250.6	268.1	291.4	308.9	320.5	314.7	303.1	279.7	256.4
152.5°	186.5	186.5	201.1	215.6	236.0	253.5	265.2	262.3	253.5	233.1	215.6
155°	142.8	142.8	151.5	163.2	180.7	192.3	204.0	204.0	198.2	183.6	169.0
157.5°	102.0	102.0	110.7	119.5	131.1	142.8	151.5	151.5	148.6	137.0	128.2
160°	67.0	67.0	72.9	78.7	90.3	96.2	104.9	104.9	102.0	96.2	90.3
162.5°	35.0	35.0	40.8	43.7	52.5	58.3	64.1	67.0	67.0	61.2	58.3
165°	11.7	11.7	11.7	14.6	20.4	26.2	29.1	32.1	32.1	29.1	29.1
167.5°	2.9	2.9	2.9	2.9	2.9	2.9	5.8	8.7	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°	178°	180°
0°	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3	5583.3
2.5°	5184.0	5449.2	5676.5	5915.5	6180.6	6405.0	6632.3	6757.6	6865.4	6845.0	6845.0
5°	4878.1	5143.2	5420.1	5711.5	6069.9	6437.1	6786.7	7037.3	7168.5	7188.9	7186.0
7.5°	4371.0	4618.7	4881.0	5204.4	5624.1	6072.8	6547.8	6941.2	7188.9	7235.5	7244.2
10°	3869.8	4056.3	4277.8	4499.2	4875.1	5286.0	5711.5	6026.2	6268.0	6303.0	6343.8
12.5°	3569.7	3671.7	3814.4	3968.9	4213.7	4513.8	4863.5	5044.2	5198.6	5216.1	5254.0
15°	3415.2	3464.8	3499.7	3555.1	3700.8	3887.3	4047.6	4225.3	4289.4	4333.1	4353.5
17.5°	3354.0	3348.2	3313.2	3313.2	3324.9	3394.8	3496.8	3558.0	3598.8	3619.2	3625.0
20°	3228.7	3176.3	3106.3	3013.1	2963.6	2940.2	2966.5	2981.0	2969.4	2954.8	2981.0
22.5°	3097.6	2986.9	2861.6	2753.7	2625.5	2546.9	2471.1	2444.9	2412.8	2433.2	2433.2
25°	3056.8	2861.6	2660.5	2479.8	2287.5	2156.4	2016.5	1967.0	1917.4	1958.2	1958.2
27.5°	1806.7	1806.7	1693.0	1541.5	1375.4	1305.5	1250.1	1218.1	1197.7	1206.4	1206.4
30°	1617.3	1541.5	1471.6	1375.4	1247.2	1162.7	1089.8	1046.1	1025.7	1019.9	1025.7
32.5°	1500.7	1442.4	1357.9	1261.8	1148.1	1054.9	973.3	929.6	897.5	903.3	906.3
35°	1343.4	1282.2	1209.3	1119.0	1022.8	935.4	862.5	818.8	789.7	789.7	792.6
37.5°	1244.3	1183.1	1113.2	1031.6	938.3	853.8	786.8	734.3	708.1	705.2	705.2
40°	1183.1	1121.9	1057.8	976.2	888.8	801.4	734.3	687.7	655.7	655.7	658.6
42.5°	1072.4	1014.1	958.7	885.9	807.2	731.4	667.3	626.5	594.5	588.6	594.5
45°	903.3	871.3	827.6	778.0	711.0	649.8	591.5	556.6	530.4	530.4	527.4
47.5°	827.6	795.5	748.9	699.4	644.0	582.8	536.2	504.1	480.8	480.8	480.8
50°	798.4	763.5	705.2	649.8	585.7	533.3	492.5	460.4	442.9	442.9	440.0
52.5°	813.0	757.6	681.9	603.2	542.0	489.6	448.8	416.7	402.1	402.1	399.2
55°	891.7	792.6	681.9	585.7	512.9	454.6	413.8	378.8	364.3	364.3	364.3
57.5°	923.7	813.0	676.1	568.2	486.6	425.4	375.9	343.9	329.3	329.3	326.4
60°	865.5	772.2	646.9	544.9	466.2	405.0	358.4	326.4	308.9	308.9	306.0
62.5°	737.2	670.2	574.1	498.3	437.1	381.7	340.9	308.9	294.3	294.3	294.3
65°	661.5	603.2	527.4	460.4	405.0	358.4	320.5	294.3	279.7	279.7	279.7
67.5°	617.8	568.2	492.5	428.4	373.0	329.3	294.3	271.0	259.3	256.4	259.3
70°	571.1	518.7	448.8	387.6	338.0	297.2	265.2	241.9	230.2	230.2	230.2
72.5°	521.6	472.1	405.0	349.7	300.1	268.1	236.0	215.6	204.0	204.0	201.1
75°	475.0	425.4	361.3	308.9	268.1	236.0	209.8	192.3	180.7	180.7	180.7
77.5°	431.3	384.7	323.5	276.8	238.9	212.7	186.5	171.9	163.2	163.2	160.3
80°	390.5	346.8	288.5	247.7	212.7	189.4	166.1	154.4	145.7	145.7	145.7
82.5°	349.7	308.9	256.4	218.6	189.4	166.1	148.6	137.0	131.1	128.2	131.1
85°	311.8	273.9	227.3	192.3	166.1	145.7	131.1	119.5	113.6	113.6	113.6
87.5°	276.8	241.9	201.1	169.0	145.7	128.2	113.6	104.9	102.0	99.1	99.1
90°	238.9	206.9	171.9	145.7	125.3	110.7	96.2	90.3	84.5	84.5	84.5
92.5°	212.7	186.5	154.4	131.1	113.6	102.0	90.3	84.5	78.7	78.7	78.7
95°	186.5	163.2	137.0	119.5	104.9	93.2	84.5	78.7	75.8	75.8	75.8
97.5°	160.3	142.8	122.4	107.8	96.2	87.4	78.7	72.9	69.9	69.9	69.9
100°	134.0	122.4	107.8	96.2	87.4	78.7	69.9	67.0	64.1	64.1	64.1
102.5°	110.7	102.0	90.3	81.6	72.9	67.0	61.2	58.3	55.4	55.4	55.4
105°	96.2	90.3	81.6	72.9	67.0	61.2	55.4	49.5	49.5	49.5	49.5
107.5°	90.3	81.6	75.8	69.9	64.1	55.4	52.5	46.6	43.7	43.7	43.7
110°	87.4	81.6	75.8	67.0	61.2	55.4	49.5	43.7	40.8	40.8	40.8



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CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	87.4	81.6	75.8	69.9	64.1	55.4	52.5	40.8	37.9	37.9	37.9
115°	93.2	87.4	78.7	72.9	64.1	58.3	52.5	40.8	37.9	37.9	37.9
117.5°	99.1	93.2	84.5	78.7	69.9	61.2	52.5	40.8	37.9	37.9	37.9
120°	113.6	104.9	93.2	84.5	75.8	64.1	55.4	40.8	35.0	37.9	37.9
122.5°	128.2	119.5	104.9	93.2	81.6	69.9	55.4	40.8	35.0	37.9	37.9
125°	151.5	137.0	119.5	104.9	87.4	72.9	58.3	40.8	32.1	35.0	37.9
127.5°	177.8	160.3	137.0	116.6	96.2	75.8	58.3	40.8	32.1	35.0	35.0
130°	206.9	183.6	154.4	125.3	102.0	78.7	58.3	40.8	32.1	35.0	35.0
132.5°	236.0	204.0	169.0	137.0	107.8	81.6	58.3	37.9	32.1	32.1	32.1
135°	259.3	221.5	180.7	142.8	110.7	81.6	55.4	37.9	29.1	29.1	29.1
137.5°	279.7	236.0	189.4	145.7	110.7	78.7	52.5	35.0	26.2	26.2	26.2
140°	291.4	241.9	192.3	142.8	104.9	75.8	49.5	32.1	23.3	23.3	23.3
142.5°	291.4	238.9	186.5	139.9	99.1	69.9	43.7	26.2	20.4	20.4	20.4
145°	279.7	227.3	177.8	131.1	90.3	61.2	37.9	23.3	17.5	17.5	17.5
147.5°	262.3	209.8	163.2	119.5	81.6	52.5	32.1	20.4	14.6	14.6	14.6
150°	233.1	186.5	142.8	102.0	69.9	43.7	26.2	17.5	11.7	11.7	11.7
152.5°	195.2	154.4	119.5	84.5	58.3	35.0	23.3	11.7	8.7	8.7	8.7
155°	154.4	122.4	93.2	67.0	43.7	26.2	17.5	11.7	5.8	5.8	5.8
157.5°	116.6	90.3	69.9	49.5	32.1	20.4	11.7	8.7	5.8	5.8	5.8
160°	81.6	64.1	46.6	32.1	20.4	14.6	8.7	5.8	2.9	2.9	2.9
162.5°	52.5	40.8	29.1	20.4	11.7	8.7	5.8	2.9	2.9	2.9	0.0
165°	26.2	20.4	14.6	8.7	5.8	2.9	2.9	2.9	0.0	0.0	0.0
167.5°	5.8	5.8	5.8	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)