

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: P690861

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690861
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-T3-7030-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 6411 lumens
Efficiency: N/A
Efficacy: 106.8 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



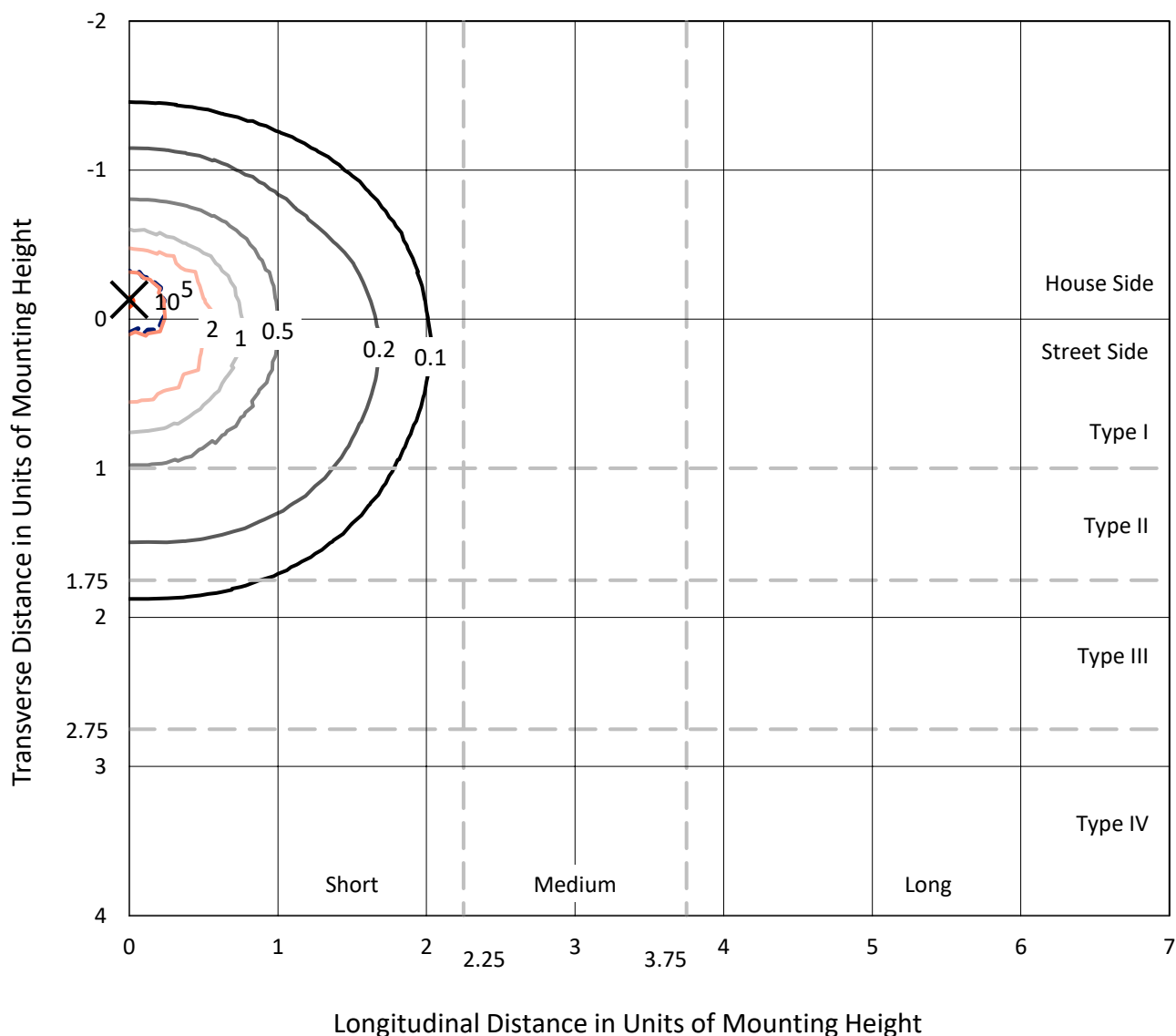
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



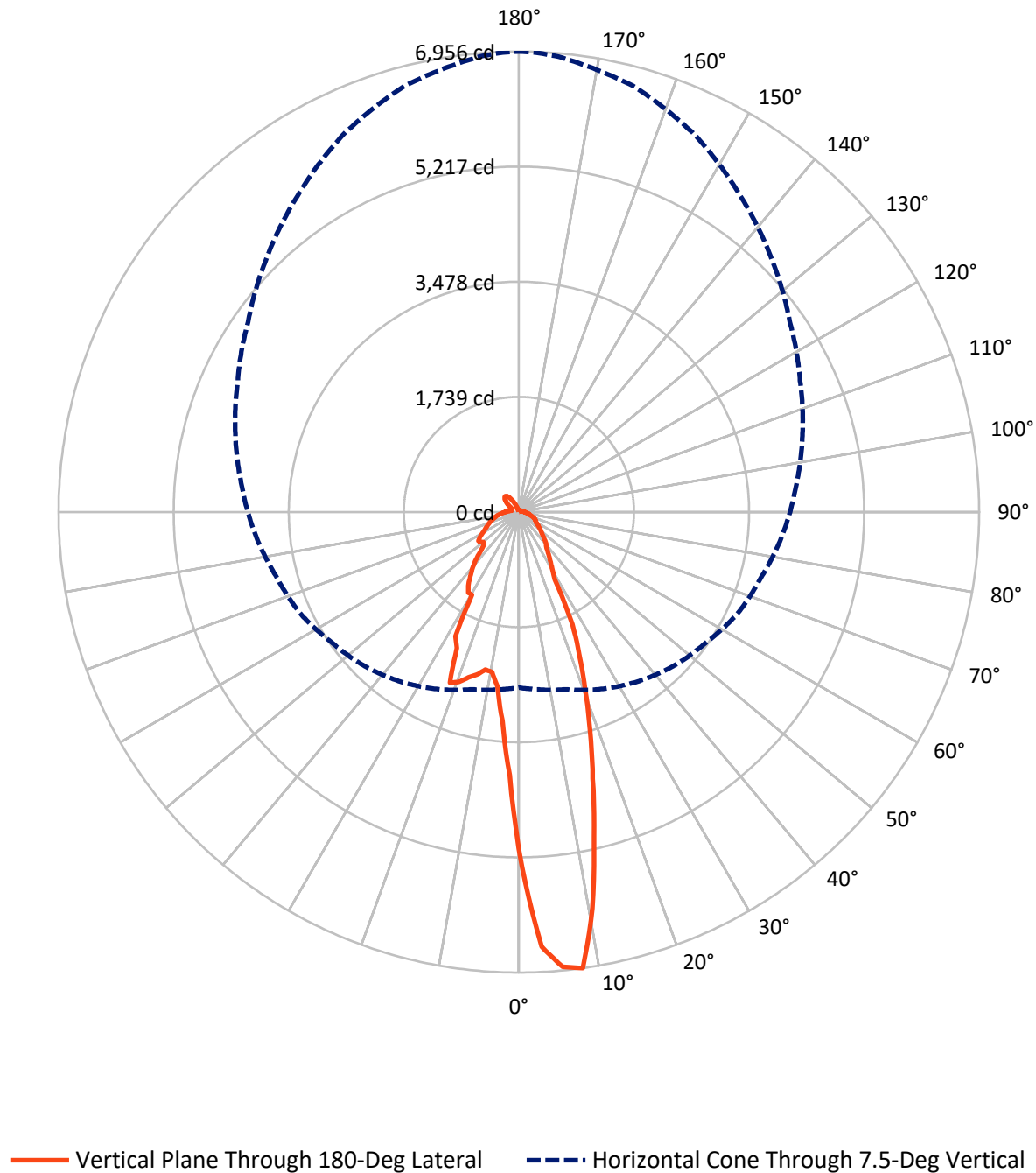
Based on 25 foot mounting height. Maximum calculated value = 10.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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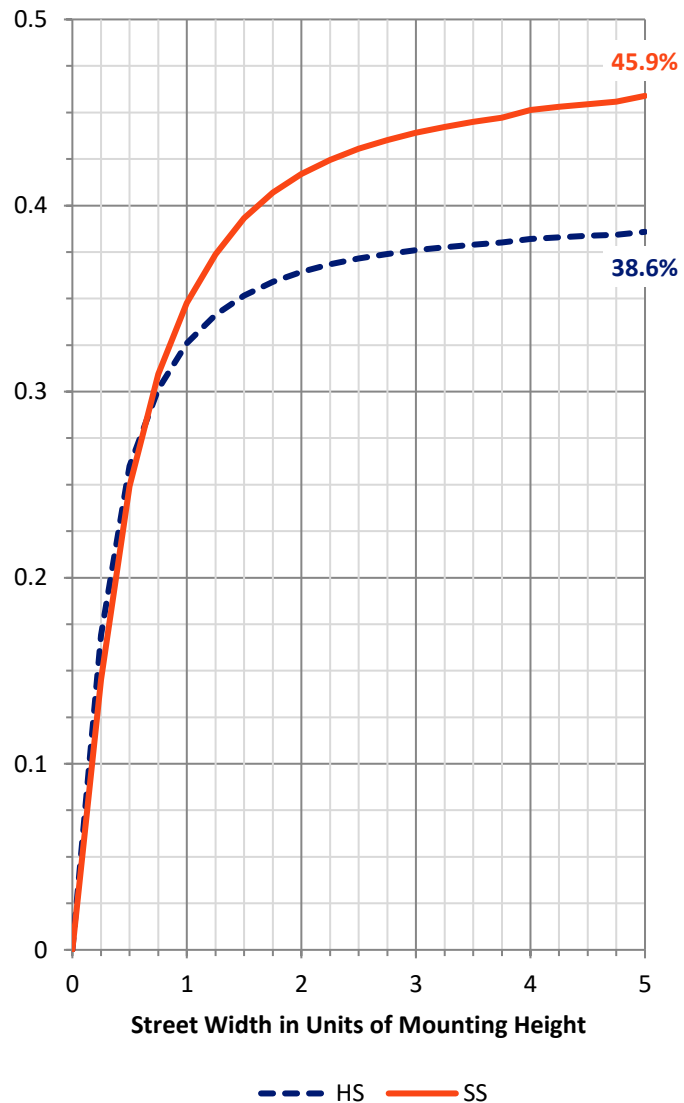
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2538.2	264.7	2802.9
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	3026.8	581.3	3608.1
	% Fixture	47.2	9.1	56.3
Total	Lumens	5565.0	846.0	6411.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	6.7
10°-20°	918.9	14.3
20°-30°	1014.7	15.8
30°-40°	735.9	11.5
40°-50°	620.0	9.7
50°-60°	633.0	9.9
60°-70°	539.4	8.4
70°-80°	402.2	6.3
80°-90°	271.4	4.2
90°-100°	162.3	2.5
100°-110°	93.3	1.5
110°-120°	87.2	1.4
120°-130°	127.1	2.0
130°-140°	172.7	2.7
140°-150°	140.5	2.2
150°-160°	56.1	0.9
160°-170°	6.8	0.1
170°-180°	0.0	0.0
0°-90°	5565.0	86.8
0°-180°	6411.0	100.0

Coefficient of Utilization



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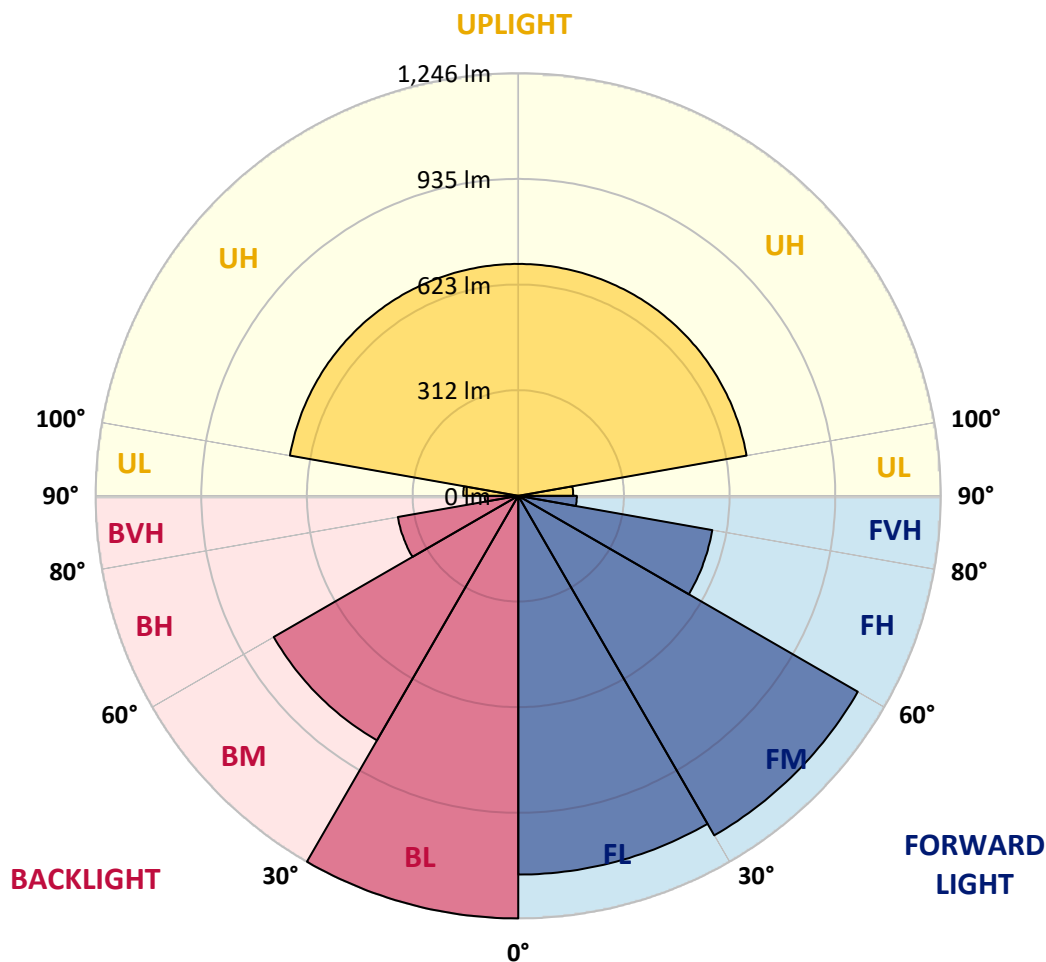
CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1116.8	17.4			
FM	(30°-60°)	1156.2	18.0			
FH	(60°-80°)	581.1	9.1			G0/660
FVH	(80°-90°)	172.7	2.7			G2/225
BL	(0°-30°)	1246.3	19.4	B3/2500		
BM	(30°-60°)	832.7	13.0	B1/1000		
BH	(60°-80°)	360.5	5.6	B1/500		G1/500
BVH	(80°-90°)	98.8	1.5			G1/100
UL	(90°-100°)	162.3	2.5		U3/500	
UH	(100°-180°)	683.7	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short



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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8
2.5°	3978.7	4071.0	4079.4	4180.1	4255.6	4325.6	4376.0	4521.5	4669.7	4809.6	4890.8
5°	3158.9	3203.6	3284.8	3393.9	3533.8	3642.9	3799.6	4003.8	4199.7	4445.9	4566.2
7.5°	2652.4	2686.0	2772.7	2949.0	3125.3	3293.2	3444.2	3640.1	3791.2	3995.4	4096.2
10°	2451.0	2470.6	2543.3	2666.4	2834.3	2974.2	3105.7	3254.0	3388.3	3575.8	3648.5
12.5°	2431.4	2439.8	2498.5	2585.3	2683.2	2797.9	2907.0	3033.0	3175.6	3323.9	3379.9
15°	2537.7	2532.1	2551.7	2602.1	2658.0	2747.6	2848.3	2963.0	3100.1	3209.2	3254.0
17.5°	2613.3	2610.5	2646.8	2669.2	2722.4	2775.5	2876.3	2965.8	3100.1	3186.8	3212.0
20°	2722.4	2728.0	2739.2	2781.1	2803.5	2839.9	2901.5	2954.6	3069.3	3119.7	3114.1
22.5°	2781.1	2778.3	2825.9	2923.8	2949.0	2968.6	2979.8	3002.2	3066.5	3063.7	3021.8
25°	2255.1	2260.7	2271.9	2355.9	2462.2	2635.6	2778.3	3002.2	3122.5	3077.7	2988.2
27.5°	2106.8	2090.1	2031.3	1983.7	1841.0	1745.9	1656.4	1617.2	1636.8	1670.4	1762.7
30°	1435.3	1438.1	1443.7	1452.1	1466.1	1502.5	1527.7	1530.5	1550.1	1606.0	1586.4
32.5°	1438.1	1440.9	1432.5	1440.9	1435.3	1449.3	1446.5	1435.3	1452.1	1502.5	1482.9
35°	1351.4	1345.8	1351.4	1354.2	1323.4	1312.2	1309.4	1301.0	1312.2	1337.4	1320.6
37.5°	1217.1	1214.3	1239.5	1253.5	1228.3	1228.3	1222.7	1211.5	1219.9	1242.3	1219.9
40°	1099.6	1102.4	1138.8	1161.1	1152.7	1161.1	1169.5	1166.7	1186.3	1194.7	1166.7
42.5°	970.9	965.3	1001.7	1018.4	1001.7	1007.3	1004.5	1007.3	1046.4	1063.2	1043.6
45°	811.4	819.8	836.6	859.0	856.2	864.6	861.8	867.4	892.5	900.9	886.9
47.5°	721.9	727.5	747.0	772.2	786.2	800.2	800.2	803.0	819.8	822.6	808.6
50°	702.3	707.9	733.1	761.0	783.4	800.2	808.6	805.8	814.2	808.6	789.0
52.5°	735.9	735.9	775.0	808.6	836.6	867.4	878.5	867.4	867.4	845.0	814.2
55°	749.8	752.6	800.2	859.0	912.1	968.1	1004.5	1001.7	998.9	962.5	906.5
57.5°	705.1	713.5	761.0	828.2	900.9	990.5	1043.6	1052.0	1052.0	1004.5	942.9
60°	640.7	646.3	682.7	738.7	811.4	878.5	934.5	940.1	956.9	931.7	875.8
62.5°	587.6	593.2	623.9	665.9	719.1	761.0	777.8	777.8	786.2	777.8	738.7
65°	548.4	551.2	576.4	612.7	649.1	682.7	699.5	693.9	705.1	693.9	663.1
67.5°	512.0	512.0	534.4	562.4	596.0	635.1	646.3	651.9	663.1	649.1	621.1
70°	475.6	478.4	500.8	523.2	554.0	582.0	593.2	596.0	609.9	593.2	573.6
72.5°	444.9	444.9	464.5	486.8	509.2	537.2	545.6	551.2	559.6	542.8	526.0
75°	408.5	411.3	428.1	447.7	467.3	495.2	503.6	506.4	514.8	495.2	478.4
77.5°	374.9	377.7	391.7	408.5	428.1	450.5	458.9	464.5	467.3	450.5	433.7
80°	341.3	344.1	355.3	372.1	388.9	411.3	416.9	419.7	425.3	405.7	394.5
82.5°	310.6	310.6	319.0	333.0	349.7	369.3	377.7	380.5	383.3	366.5	355.3
85°	274.2	274.2	282.6	296.6	310.6	330.2	338.5	341.3	341.3	327.4	316.2
87.5°	243.4	243.4	249.0	260.2	271.4	291.0	299.4	305.0	302.2	291.0	279.8
90°	212.6	212.6	218.2	226.6	237.8	254.6	263.0	265.8	265.8	251.8	243.4
92.5°	184.7	184.7	190.3	198.7	207.0	221.0	229.4	235.0	235.0	223.8	215.4
95°	159.5	159.5	162.3	170.7	179.1	190.3	195.9	201.5	201.5	195.9	187.5
97.5°	137.1	137.1	139.9	145.5	151.1	159.5	165.1	170.7	170.7	167.9	162.3
100°	120.3	120.3	120.3	123.1	128.7	131.5	137.1	142.7	142.7	139.9	137.1
102.5°	109.1	109.1	109.1	109.1	109.1	111.9	111.9	114.7	114.7	114.7	111.9
105°	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	100.7	97.9	95.1
107.5°	103.5	100.7	100.7	100.7	100.7	97.9	97.9	97.9	95.1	92.3	89.5
110°	103.5	103.5	103.5	103.5	100.7	97.9	97.9	95.1	92.3	89.5	86.7



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	109.1	109.1	109.1	106.3	103.5	103.5	100.7	97.9	95.1	89.5	86.7
115°	117.5	117.5	117.5	117.5	114.7	109.1	106.3	103.5	97.9	95.1	92.3
117.5°	131.5	131.5	131.5	131.5	125.9	123.1	117.5	114.7	109.1	103.5	100.7
120°	148.3	148.3	151.1	151.1	148.3	142.7	134.3	131.5	125.9	117.5	111.9
122.5°	173.5	170.7	176.3	176.3	176.3	170.7	159.5	153.9	148.3	137.1	131.5
125°	198.7	198.7	204.2	209.8	212.6	204.2	193.1	184.7	176.3	162.3	153.9
127.5°	226.6	226.6	237.8	249.0	254.6	246.2	232.2	223.8	212.6	193.1	181.9
130°	254.6	254.6	271.4	288.2	296.6	291.0	277.0	265.8	251.8	226.6	212.6
132.5°	279.8	279.8	299.4	321.8	333.0	330.2	316.2	305.0	293.8	263.0	243.4
135°	299.4	302.2	327.4	352.5	366.5	369.3	355.3	341.3	327.4	293.8	271.4
137.5°	310.6	316.2	341.3	372.1	386.1	394.5	386.1	372.1	355.3	319.0	293.8
140°	313.4	316.2	344.1	374.9	388.9	400.1	400.1	383.3	369.3	333.0	305.0
142.5°	305.0	307.8	335.8	363.7	377.7	391.7	394.5	380.5	366.5	333.0	305.0
145°	285.4	291.0	316.2	338.5	358.1	372.1	377.7	369.3	352.5	321.8	296.6
147.5°	260.2	263.0	285.4	305.0	324.6	341.3	349.7	341.3	327.4	299.4	277.0
150°	221.0	223.8	240.6	257.4	279.8	296.6	307.8	302.2	291.0	268.6	246.2
152.5°	179.1	179.1	193.1	207.0	226.6	243.4	254.6	251.8	243.4	223.8	207.0
155°	137.1	137.1	145.5	156.7	173.5	184.7	195.9	195.9	190.3	176.3	162.3
157.5°	97.9	97.9	106.3	114.7	125.9	137.1	145.5	145.5	142.7	131.5	123.1
160°	64.4	64.4	69.9	75.5	86.7	92.3	100.7	100.7	97.9	92.3	86.7
162.5°	33.6	33.6	39.2	42.0	50.4	56.0	61.6	64.4	64.4	58.8	56.0
165°	11.2	11.2	11.2	14.0	19.6	25.2	28.0	30.8	30.8	28.0	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	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°	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8	5360.8
2.5°	4977.5	5232.1	5450.4	5679.8	5934.4	6149.8	6368.1	6488.4	6591.9	6572.3	6572.3
5°	4683.7	4938.3	5204.1	5483.9	5828.1	6180.6	6516.4	6757.0	6882.9	6902.5	6899.7
7.5°	4196.9	4434.7	4686.5	4997.1	5400.0	5830.9	6286.9	6664.7	6902.5	6947.3	6955.6
10°	3715.6	3894.7	4107.4	4320.0	4680.9	5075.4	5483.9	5786.1	6018.3	6051.9	6091.1
12.5°	3427.5	3525.4	3662.5	3810.8	4045.8	4334.0	4669.7	4843.2	4991.5	5008.3	5044.7
15°	3279.2	3326.7	3360.3	3413.5	3553.4	3732.4	3886.3	4057.0	4118.5	4160.5	4180.1
17.5°	3220.4	3214.8	3181.2	3181.2	3192.4	3259.6	3357.5	3416.3	3455.4	3475.0	3480.6
20°	3100.1	3049.7	2982.6	2893.1	2845.5	2823.1	2848.3	2862.3	2851.1	2837.1	2862.3
22.5°	2974.2	2867.9	2747.6	2644.0	2520.9	2445.4	2372.6	2347.5	2316.7	2336.3	2336.3
25°	2935.0	2747.6	2554.5	2381.0	2196.4	2070.5	1936.2	1888.6	1841.0	1880.2	1880.2
27.5°	1734.7	1734.7	1625.6	1480.1	1320.6	1253.5	1200.3	1169.5	1149.9	1158.3	1158.3
30°	1552.8	1480.1	1413.0	1320.6	1197.5	1116.4	1046.4	1004.5	984.9	979.3	984.9
32.5°	1440.9	1385.0	1303.8	1211.5	1102.4	1012.8	934.5	892.5	861.8	867.4	870.2
35°	1289.8	1231.1	1161.1	1074.4	982.1	898.1	828.2	786.2	758.2	758.2	761.0
37.5°	1194.7	1136.0	1068.8	990.5	900.9	819.8	755.4	705.1	679.9	677.1	677.1
40°	1136.0	1077.2	1015.6	937.3	853.4	769.4	705.1	660.3	629.5	629.5	632.3
42.5°	1029.6	973.7	920.5	850.6	775.0	702.3	640.7	601.6	570.8	565.2	570.8
45°	867.4	836.6	794.6	747.0	682.7	623.9	568.0	534.4	509.2	509.2	506.4
47.5°	794.6	763.8	719.1	671.5	618.3	559.6	514.8	484.0	461.7	461.7	461.7
50°	766.6	733.1	677.1	623.9	562.4	512.0	472.8	442.1	425.3	425.3	422.5
52.5°	780.6	727.5	654.7	579.2	520.4	470.1	430.9	400.1	386.1	386.1	383.3
55°	856.2	761.0	654.7	562.4	492.4	436.5	397.3	363.7	349.7	349.7	349.7
57.5°	886.9	780.6	649.1	545.6	467.3	408.5	360.9	330.2	316.2	316.2	313.4
60°	831.0	741.5	621.1	523.2	447.7	388.9	344.1	313.4	296.6	296.6	293.8
62.5°	707.9	643.5	551.2	478.4	419.7	366.5	327.4	296.6	282.6	282.6	282.6
65°	635.1	579.2	506.4	442.1	388.9	344.1	307.8	282.6	268.6	268.6	268.6
67.5°	593.2	545.6	472.8	411.3	358.1	316.2	282.6	260.2	249.0	246.2	249.0
70°	548.4	498.0	430.9	372.1	324.6	285.4	254.6	232.2	221.0	221.0	221.0
72.5°	500.8	453.3	388.9	335.8	288.2	257.4	226.6	207.0	195.9	195.9	193.1
75°	456.1	408.5	346.9	296.6	257.4	226.6	201.5	184.7	173.5	173.5	173.5
77.5°	414.1	369.3	310.6	265.8	229.4	204.2	179.1	165.1	156.7	156.7	153.9
80°	374.9	333.0	277.0	237.8	204.2	181.9	159.5	148.3	139.9	139.9	139.9
82.5°	335.8	296.6	246.2	209.8	181.9	159.5	142.7	131.5	125.9	123.1	125.9
85°	299.4	263.0	218.2	184.7	159.5	139.9	125.9	114.7	109.1	109.1	109.1
87.5°	265.8	232.2	193.1	162.3	139.9	123.1	109.1	100.7	97.9	95.1	95.1
90°	229.4	198.7	165.1	139.9	120.3	106.3	92.3	86.7	81.1	81.1	81.1
92.5°	204.2	179.1	148.3	125.9	109.1	97.9	86.7	81.1	75.5	75.5	75.5
95°	179.1	156.7	131.5	114.7	100.7	89.5	81.1	75.5	72.7	72.7	72.7
97.5°	153.9	137.1	117.5	103.5	92.3	83.9	75.5	69.9	67.2	67.2	67.2
100°	128.7	117.5	103.5	92.3	83.9	75.5	67.2	64.4	61.6	61.6	61.6
102.5°	106.3	97.9	86.7	78.3	69.9	64.4	58.8	56.0	53.2	53.2	53.2
105°	92.3	86.7	78.3	69.9	64.4	58.8	53.2	47.6	47.6	47.6	47.6
107.5°	86.7	78.3	72.7	67.2	61.6	53.2	50.4	44.8	42.0	42.0	42.0
110°	83.9	78.3	72.7	64.4	58.8	53.2	47.6	42.0	39.2	39.2	39.2



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	83.9	78.3	72.7	67.2	61.6	53.2	50.4	39.2	36.4	36.4	36.4
115°	89.5	83.9	75.5	69.9	61.6	56.0	50.4	39.2	36.4	36.4	36.4
117.5°	95.1	89.5	81.1	75.5	67.2	58.8	50.4	39.2	36.4	36.4	36.4
120°	109.1	100.7	89.5	81.1	72.7	61.6	53.2	39.2	33.6	36.4	36.4
122.5°	123.1	114.7	100.7	89.5	78.3	67.2	53.2	39.2	33.6	36.4	36.4
125°	145.5	131.5	114.7	100.7	83.9	69.9	56.0	39.2	30.8	33.6	36.4
127.5°	170.7	153.9	131.5	111.9	92.3	72.7	56.0	39.2	30.8	33.6	33.6
130°	198.7	176.3	148.3	120.3	97.9	75.5	56.0	39.2	30.8	33.6	33.6
132.5°	226.6	195.9	162.3	131.5	103.5	78.3	56.0	36.4	30.8	30.8	30.8
135°	249.0	212.6	173.5	137.1	106.3	78.3	53.2	36.4	28.0	28.0	28.0
137.5°	268.6	226.6	181.9	139.9	106.3	75.5	50.4	33.6	25.2	25.2	25.2
140°	279.8	232.2	184.7	137.1	100.7	72.7	47.6	30.8	22.4	22.4	22.4
142.5°	279.8	229.4	179.1	134.3	95.1	67.2	42.0	25.2	19.6	19.6	19.6
145°	268.6	218.2	170.7	125.9	86.7	58.8	36.4	22.4	16.8	16.8	16.8
147.5°	251.8	201.5	156.7	114.7	78.3	50.4	30.8	19.6	14.0	14.0	14.0
150°	223.8	179.1	137.1	97.9	67.2	42.0	25.2	16.8	11.2	11.2	11.2
152.5°	187.5	148.3	114.7	81.1	56.0	33.6	22.4	11.2	8.4	8.4	8.4
155°	148.3	117.5	89.5	64.4	42.0	25.2	16.8	11.2	5.6	5.6	5.6
157.5°	111.9	86.7	67.2	47.6	30.8	19.6	11.2	8.4	5.6	5.6	5.6
160°	78.3	61.6	44.8	30.8	19.6	14.0	8.4	5.6	2.8	2.8	2.8
162.5°	50.4	39.2	28.0	19.6	11.2	8.4	5.6	2.8	2.8	2.8	0.0
165°	25.2	19.6	14.0	8.4	5.6	2.8	2.8	2.8	0.0	0.0	0.0
167.5°	5.6	5.6	5.6	2.8	2.8	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)