

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: P690953

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690953
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-D-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: 6415.1 lumens
Efficiency: N/A
Efficacy: 105.2 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): 61
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



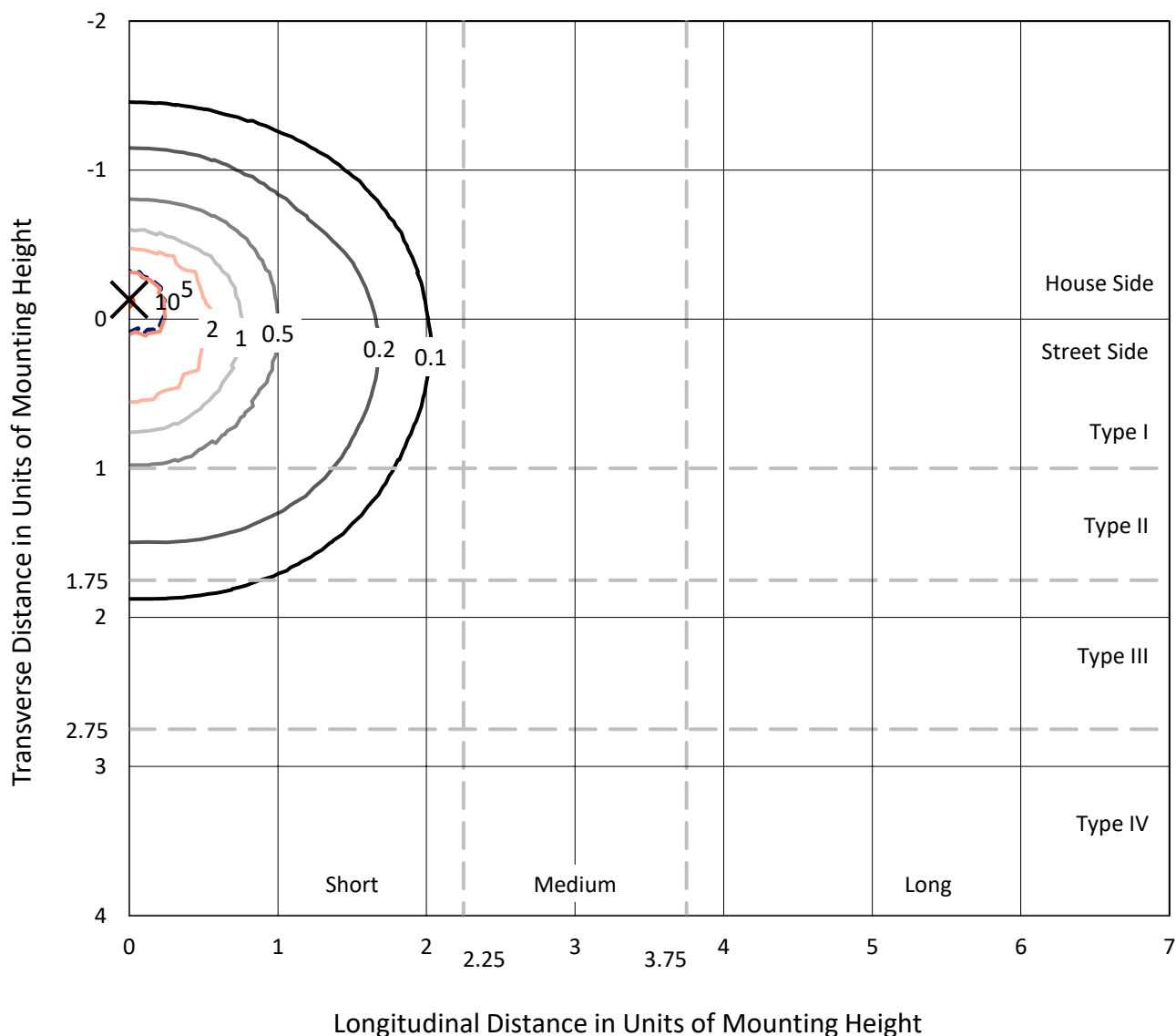
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



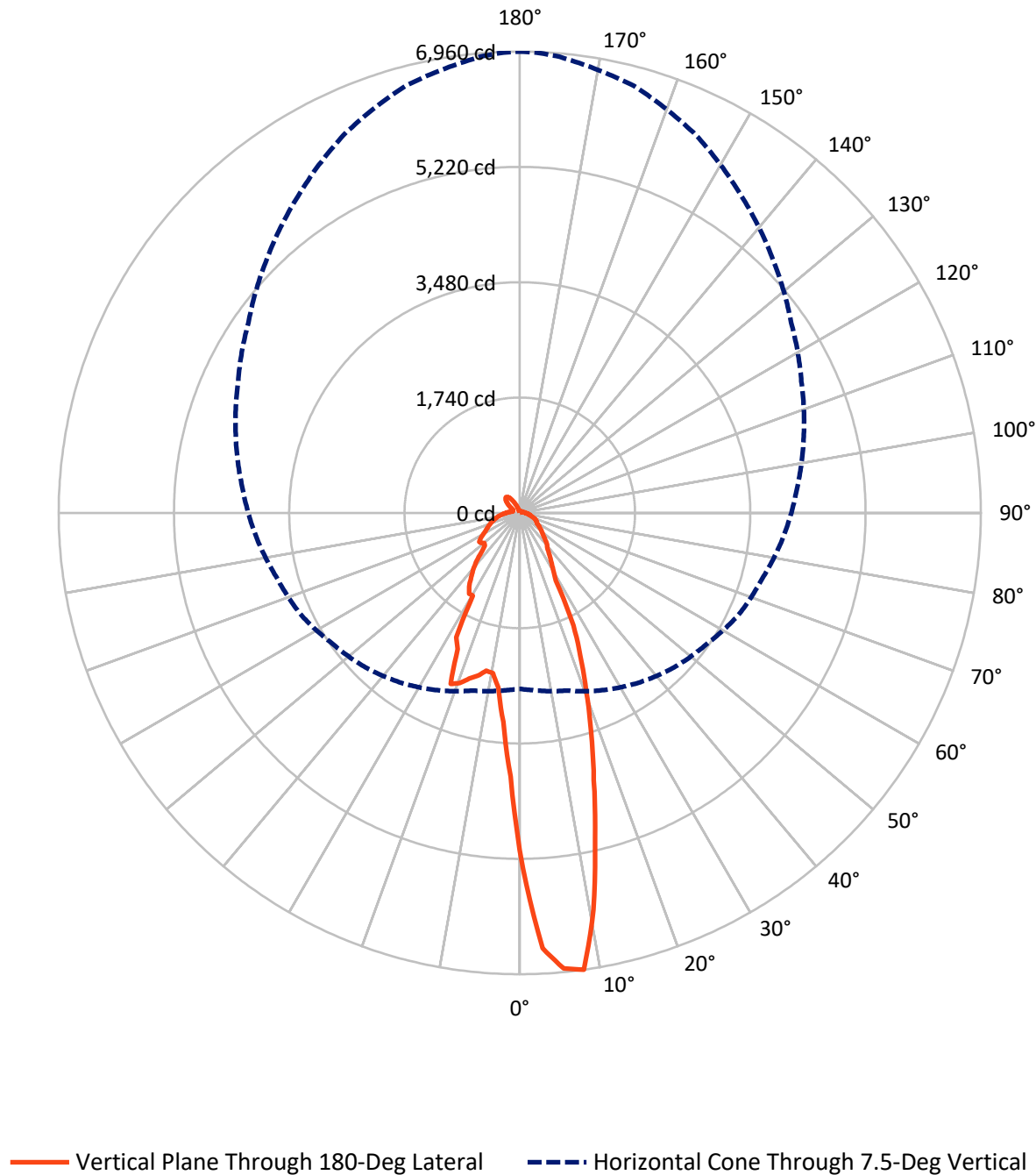
Based on 25 foot mounting height. Maximum calculated value = 10.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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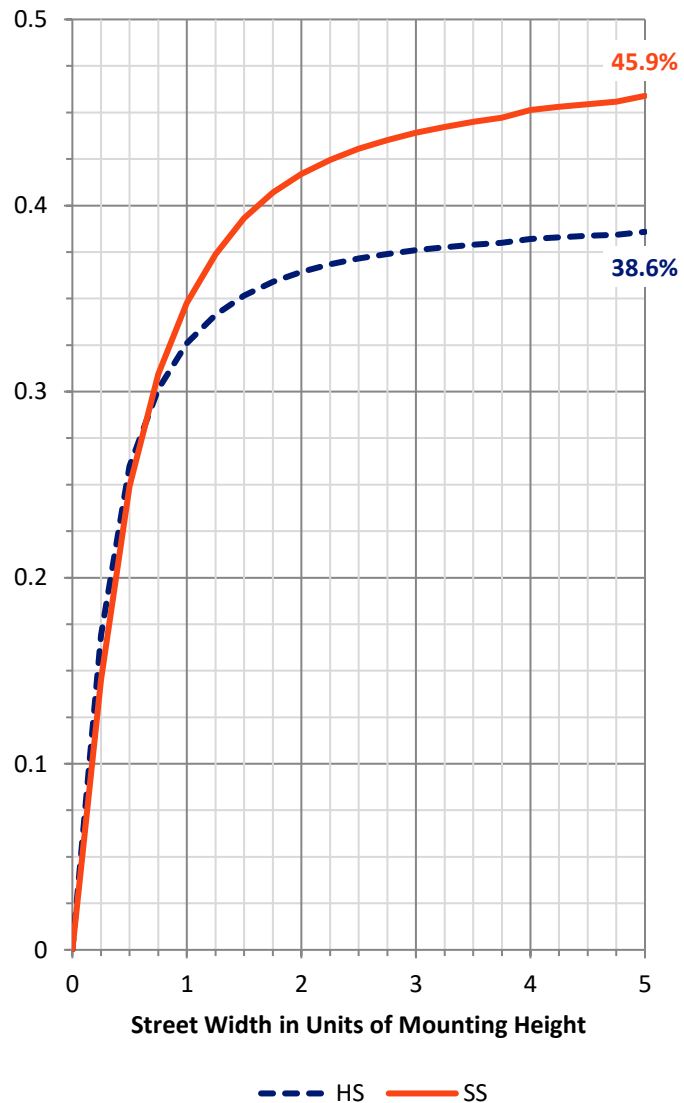
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2539.8	264.9	2804.7
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	3028.7	581.7	3610.4
	% Fixture	47.2	9.1	56.3
Total	Lumens	5568.5	846.6	6415.1
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.8	6.7
10°-20°	919.5	14.3
20°-30°	1015.3	15.8
30°-40°	736.4	11.5
40°-50°	620.4	9.7
50°-60°	633.4	9.9
60°-70°	539.8	8.4
70°-80°	402.4	6.3
80°-90°	271.6	4.2
90°-100°	162.4	2.5
100°-110°	93.4	1.5
110°-120°	87.3	1.4
120°-130°	127.2	2.0
130°-140°	172.8	2.7
140°-150°	140.7	2.2
150°-160°	56.1	0.9
160°-170°	6.8	0.1
170°-180°	0.0	0.0
0°-90°	5568.5	86.8
0°-180°	6415.1	100.0

Coefficient of Utilization



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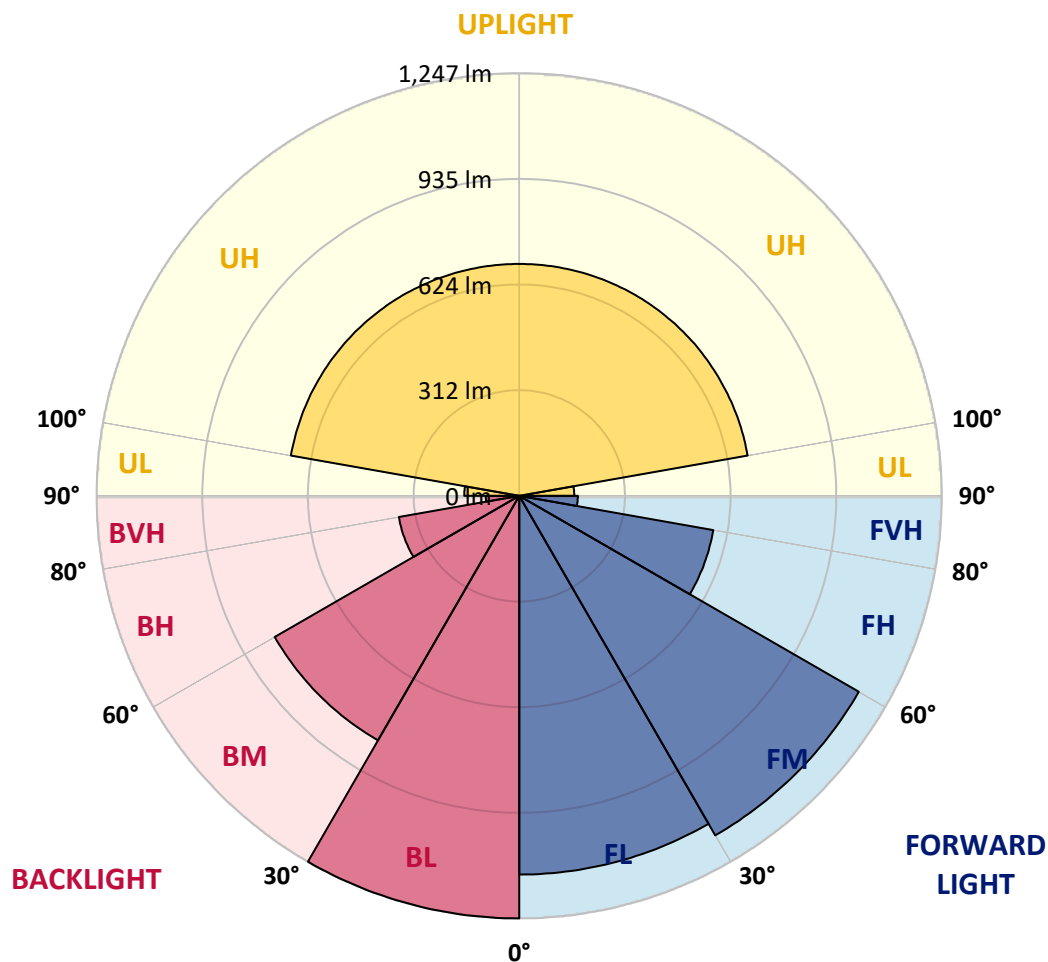
CATALOG NUMBER: CRTK2-C01-D-U-T3-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1117.5	17.4			
FM	(30°-60°)	1156.9	18.0			
FH	(60°-80°)	581.5	9.1			G0/660
FVH	(80°-90°)	172.8	2.7			G2/225
BL	(0°-30°)	1247.1	19.4	B3/2500		
BM	(30°-60°)	833.2	13.0	B1/1000		
BH	(60°-80°)	360.7	5.6	B1/500		G1/500
BVH	(80°-90°)	98.8	1.5			G1/100
UL	(90°-100°)	162.4	2.5		U3/500	
UH	(100°-180°)	684.2	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°	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2
2.5°	3981.1	4073.5	4081.9	4182.7	4258.3	4328.3	4378.7	4524.3	4672.7	4812.6	4893.8
5°	3160.8	3205.6	3286.8	3396.0	3536.0	3645.2	3802.0	4006.3	4202.3	4448.7	4569.1
7.5°	2654.1	2687.7	2774.5	2950.9	3127.2	3295.2	3446.4	3642.4	3793.6	3997.9	4098.7
10°	2452.5	2472.1	2544.9	2668.1	2836.1	2976.1	3107.6	3256.0	3390.4	3578.0	3650.8
12.5°	2432.9	2441.3	2500.1	2586.9	2684.9	2799.7	2908.9	3034.8	3177.6	3326.0	3382.0
15°	2539.3	2533.7	2553.3	2603.7	2659.7	2749.3	2850.1	2964.9	3102.0	3211.2	3256.0
17.5°	2614.9	2612.1	2648.5	2670.9	2724.1	2777.3	2878.1	2967.7	3102.0	3188.8	3214.0
20°	2724.1	2729.7	2740.9	2782.9	2805.3	2841.7	2903.3	2956.5	3071.2	3121.6	3116.0
22.5°	2782.9	2780.1	2827.7	2925.7	2950.9	2970.5	2981.7	3004.0	3068.4	3065.6	3023.6
25°	2256.5	2262.1	2273.3	2357.3	2463.7	2637.3	2780.1	3004.0	3124.4	3079.6	2990.1
27.5°	2108.2	2091.4	2032.6	1985.0	1842.2	1747.0	1657.4	1618.2	1637.8	1671.4	1763.8
30°	1436.2	1439.0	1444.6	1453.0	1467.0	1503.4	1528.6	1531.4	1551.0	1607.0	1587.4
32.5°	1439.0	1441.8	1433.4	1441.8	1436.2	1450.2	1447.4	1436.2	1453.0	1503.4	1483.8
35°	1352.2	1346.6	1352.2	1355.0	1324.2	1313.0	1310.2	1301.8	1313.0	1338.2	1321.4
37.5°	1217.9	1215.1	1240.3	1254.3	1229.1	1229.1	1223.5	1212.3	1220.7	1243.1	1220.7
40°	1100.3	1103.1	1139.5	1161.9	1153.5	1161.9	1170.3	1167.5	1187.1	1195.5	1167.5
42.5°	971.5	965.9	1002.3	1019.1	1002.3	1007.9	1005.1	1007.9	1047.1	1063.9	1044.3
45°	811.9	820.3	837.1	859.5	856.7	865.1	862.3	867.9	893.1	901.5	887.5
47.5°	722.3	727.9	747.5	772.7	786.7	800.7	800.7	803.5	820.3	823.1	809.1
50°	702.7	708.3	733.5	761.5	783.9	800.7	809.1	806.3	814.7	809.1	789.5
52.5°	736.3	736.3	775.5	809.1	837.1	867.9	879.1	867.9	867.9	845.5	814.7
55°	750.3	753.1	800.7	859.5	912.7	968.7	1005.1	1002.3	999.5	963.1	907.1
57.5°	705.5	713.9	761.5	828.7	901.5	991.1	1044.3	1052.7	1052.7	1005.1	943.5
60°	641.1	646.7	683.1	739.1	811.9	879.1	935.1	940.7	957.5	932.3	876.3
62.5°	587.9	593.5	624.3	666.3	719.5	761.5	778.3	778.3	786.7	778.3	739.1
65°	548.7	551.5	576.7	613.1	649.5	683.1	699.9	694.3	705.5	694.3	663.5
67.5°	512.3	512.3	534.7	562.7	596.3	635.5	646.7	652.3	663.5	649.5	621.5
70°	475.9	478.7	501.1	523.5	554.3	582.3	593.5	596.3	610.3	593.5	573.9
72.5°	445.1	445.1	464.7	487.1	509.5	537.5	545.9	551.5	559.9	543.1	526.3
75°	408.8	411.6	428.3	447.9	467.5	495.5	503.9	506.7	515.1	495.5	478.7
77.5°	375.2	378.0	392.0	408.8	428.3	450.7	459.1	464.7	467.5	450.7	433.9
80°	341.6	344.4	355.6	372.4	389.2	411.6	417.2	420.0	425.6	406.0	394.8
82.5°	310.8	310.8	319.2	333.2	350.0	369.6	378.0	380.8	383.6	366.8	355.6
85°	274.4	274.4	282.8	296.8	310.8	330.4	338.8	341.6	341.6	327.6	316.4
87.5°	243.6	243.6	249.2	260.4	271.6	291.2	299.6	305.2	302.4	291.2	280.0
90°	212.8	212.8	218.4	226.8	238.0	254.8	263.2	266.0	266.0	252.0	243.6
92.5°	184.8	184.8	190.4	198.8	207.2	221.2	229.6	235.2	235.2	224.0	215.6
95°	159.6	159.6	162.4	170.8	179.2	190.4	196.0	201.6	201.6	196.0	187.6
97.5°	137.2	137.2	140.0	145.6	151.2	159.6	165.2	170.8	170.8	168.0	162.4
100°	120.4	120.4	120.4	123.2	128.8	131.6	137.2	142.8	142.8	140.0	137.2
102.5°	109.2	109.2	109.2	109.2	109.2	112.0	112.0	114.8	114.8	114.8	112.0
105°	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6	100.8	98.0	95.2
107.5°	103.6	100.8	100.8	100.8	100.8	98.0	98.0	98.0	95.2	92.4	89.6
110°	103.6	103.6	103.6	103.6	100.8	98.0	98.0	95.2	92.4	89.6	86.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	109.2	109.2	109.2	106.4	103.6	103.6	100.8	98.0	95.2	89.6	86.8
115°	117.6	117.6	117.6	117.6	114.8	109.2	106.4	103.6	98.0	95.2	92.4
117.5°	131.6	131.6	131.6	131.6	126.0	123.2	117.6	114.8	109.2	103.6	100.8
120°	148.4	148.4	151.2	151.2	148.4	142.8	134.4	131.6	126.0	117.6	112.0
122.5°	173.6	170.8	176.4	176.4	176.4	170.8	159.6	154.0	148.4	137.2	131.6
125°	198.8	198.8	204.4	210.0	212.8	204.4	193.2	184.8	176.4	162.4	154.0
127.5°	226.8	226.8	238.0	249.2	254.8	246.4	232.4	224.0	212.8	193.2	182.0
130°	254.8	254.8	271.6	288.4	296.8	291.2	277.2	266.0	252.0	226.8	212.8
132.5°	280.0	280.0	299.6	322.0	333.2	330.4	316.4	305.2	294.0	263.2	243.6
135°	299.6	302.4	327.6	352.8	366.8	369.6	355.6	341.6	327.6	294.0	271.6
137.5°	310.8	316.4	341.6	372.4	386.4	394.8	386.4	372.4	355.6	319.2	294.0
140°	313.6	316.4	344.4	375.2	389.2	400.4	400.4	383.6	369.6	333.2	305.2
142.5°	305.2	308.0	336.0	364.0	378.0	392.0	394.8	380.8	366.8	333.2	305.2
145°	285.6	291.2	316.4	338.8	358.4	372.4	378.0	369.6	352.8	322.0	296.8
147.5°	260.4	263.2	285.6	305.2	324.8	341.6	350.0	341.6	327.6	299.6	277.2
150°	221.2	224.0	240.8	257.6	280.0	296.8	308.0	302.4	291.2	268.8	246.4
152.5°	179.2	179.2	193.2	207.2	226.8	243.6	254.8	252.0	243.6	224.0	207.2
155°	137.2	137.2	145.6	156.8	173.6	184.8	196.0	196.0	190.4	176.4	162.4
157.5°	98.0	98.0	106.4	114.8	126.0	137.2	145.6	145.6	142.8	131.6	123.2
160°	64.4	64.4	70.0	75.6	86.8	92.4	100.8	100.8	98.0	92.4	86.8
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°	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2	5364.2
2.5°	4980.6	5235.4	5453.8	5683.3	5938.1	6153.7	6372.1	6492.4	6596.0	6576.4	6576.4
5°	4686.7	4941.4	5207.4	5487.4	5831.7	6184.5	6520.4	6761.2	6887.2	6906.8	6904.0
7.5°	4199.5	4437.5	4689.5	5000.2	5403.4	5834.5	6290.9	6668.8	6906.8	6951.6	6960.0
10°	3718.0	3897.1	4109.9	4322.7	4683.9	5078.6	5487.4	5789.7	6022.1	6055.7	6094.9
12.5°	3429.6	3527.6	3664.8	3813.2	4048.3	4336.7	4672.7	4846.2	4994.6	5011.4	5047.8
15°	3281.2	3328.8	3362.4	3415.6	3555.6	3734.8	3888.7	4059.5	4121.1	4163.1	4182.7
17.5°	3222.4	3216.8	3183.2	3183.2	3194.4	3261.6	3359.6	3418.4	3457.6	3477.2	3482.8
20°	3102.0	3051.6	2984.5	2894.9	2847.3	2824.9	2850.1	2864.1	2852.9	2838.9	2864.1
22.5°	2976.1	2869.7	2749.3	2645.7	2522.5	2446.9	2374.1	2348.9	2318.1	2337.7	2337.7
25°	2936.9	2749.3	2556.1	2382.5	2197.7	2071.8	1937.4	1889.8	1842.2	1881.4	1881.4
27.5°	1735.8	1735.8	1626.6	1481.0	1321.4	1254.3	1201.1	1170.3	1150.7	1159.1	1159.1
30°	1553.8	1481.0	1413.8	1321.4	1198.3	1117.1	1047.1	1005.1	985.5	979.9	985.5
32.5°	1441.8	1385.8	1304.6	1212.3	1103.1	1013.5	935.1	893.1	862.3	867.9	870.7
35°	1290.6	1231.9	1161.9	1075.1	982.7	898.7	828.7	786.7	758.7	758.7	761.5
37.5°	1195.5	1136.7	1069.5	991.1	901.5	820.3	755.9	705.5	680.3	677.5	677.5
40°	1136.7	1077.9	1016.3	937.9	853.9	769.9	705.5	660.7	629.9	629.9	632.7
42.5°	1030.3	974.3	921.1	851.1	775.5	702.7	641.1	601.9	571.1	565.5	571.1
45°	867.9	837.1	795.1	747.5	683.1	624.3	568.3	534.7	509.5	509.5	506.7
47.5°	795.1	764.3	719.5	671.9	618.7	559.9	515.1	484.3	461.9	461.9	461.9
50°	767.1	733.5	677.5	624.3	562.7	512.3	473.1	442.3	425.6	425.6	422.8
52.5°	781.1	727.9	655.1	579.5	520.7	470.3	431.1	400.4	386.4	386.4	383.6
55°	856.7	761.5	655.1	562.7	492.7	436.7	397.6	364.0	350.0	350.0	350.0
57.5°	887.5	781.1	649.5	545.9	467.5	408.8	361.2	330.4	316.4	316.4	313.6
60°	831.5	741.9	621.5	523.5	447.9	389.2	344.4	313.6	296.8	296.8	294.0
62.5°	708.3	643.9	551.5	478.7	420.0	366.8	327.6	296.8	282.8	282.8	282.8
65°	635.5	579.5	506.7	442.3	389.2	344.4	308.0	282.8	268.8	268.8	268.8
67.5°	593.5	545.9	473.1	411.6	358.4	316.4	282.8	260.4	249.2	246.4	249.2
70°	548.7	498.3	431.1	372.4	324.8	285.6	254.8	232.4	221.2	221.2	221.2
72.5°	501.1	453.5	389.2	336.0	288.4	257.6	226.8	207.2	196.0	196.0	193.2
75°	456.3	408.8	347.2	296.8	257.6	226.8	201.6	184.8	173.6	173.6	173.6
77.5°	414.4	369.6	310.8	266.0	229.6	204.4	179.2	165.2	156.8	156.8	154.0
80°	375.2	333.2	277.2	238.0	204.4	182.0	159.6	148.4	140.0	140.0	140.0
82.5°	336.0	296.8	246.4	210.0	182.0	159.6	142.8	131.6	126.0	123.2	126.0
85°	299.6	263.2	218.4	184.8	159.6	140.0	126.0	114.8	109.2	109.2	109.2
87.5°	266.0	232.4	193.2	162.4	140.0	123.2	109.2	100.8	98.0	95.2	95.2
90°	229.6	198.8	165.2	140.0	120.4	106.4	92.4	86.8	81.2	81.2	81.2
92.5°	204.4	179.2	148.4	126.0	109.2	98.0	86.8	81.2	75.6	75.6	75.6
95°	179.2	156.8	131.6	114.8	100.8	89.6	81.2	75.6	72.8	72.8	72.8
97.5°	154.0	137.2	117.6	103.6	92.4	84.0	75.6	70.0	67.2	67.2	67.2
100°	128.8	117.6	103.6	92.4	84.0	75.6	67.2	64.4	61.6	61.6	61.6
102.5°	106.4	98.0	86.8	78.4	70.0	64.4	58.8	56.0	53.2	53.2	53.2
105°	92.4	86.8	78.4	70.0	64.4	58.8	53.2	47.6	47.6	47.6	47.6
107.5°	86.8	78.4	72.8	67.2	61.6	53.2	50.4	44.8	42.0	42.0	42.0
110°	84.0	78.4	72.8	64.4	58.8	53.2	47.6	42.0	39.2	39.2	39.2



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CATALOG NUMBER: CRTK2-C01-D-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	84.0	78.4	72.8	67.2	61.6	53.2	50.4	39.2	36.4	36.4	36.4
115°	89.6	84.0	75.6	70.0	61.6	56.0	50.4	39.2	36.4	36.4	36.4
117.5°	95.2	89.6	81.2	75.6	67.2	58.8	50.4	39.2	36.4	36.4	36.4
120°	109.2	100.8	89.6	81.2	72.8	61.6	53.2	39.2	33.6	36.4	36.4
122.5°	123.2	114.8	100.8	89.6	78.4	67.2	53.2	39.2	33.6	36.4	36.4
125°	145.6	131.6	114.8	100.8	84.0	70.0	56.0	39.2	30.8	33.6	36.4
127.5°	170.8	154.0	131.6	112.0	92.4	72.8	56.0	39.2	30.8	33.6	33.6
130°	198.8	176.4	148.4	120.4	98.0	75.6	56.0	39.2	30.8	33.6	33.6
132.5°	226.8	196.0	162.4	131.6	103.6	78.4	56.0	36.4	30.8	30.8	30.8
135°	249.2	212.8	173.6	137.2	106.4	78.4	53.2	36.4	28.0	28.0	28.0
137.5°	268.8	226.8	182.0	140.0	106.4	75.6	50.4	33.6	25.2	25.2	25.2
140°	280.0	232.4	184.8	137.2	100.8	72.8	47.6	30.8	22.4	22.4	22.4
142.5°	280.0	229.6	179.2	134.4	95.2	67.2	42.0	25.2	19.6	19.6	19.6
145°	268.8	218.4	170.8	126.0	86.8	58.8	36.4	22.4	16.8	16.8	16.8
147.5°	252.0	201.6	156.8	114.8	78.4	50.4	30.8	19.6	14.0	14.0	14.0
150°	224.0	179.2	137.2	98.0	67.2	42.0	25.2	16.8	11.2	11.2	11.2
152.5°	187.6	148.4	114.8	81.2	56.0	33.6	22.4	11.2	8.4	8.4	8.4
155°	148.4	117.6	89.6	64.4	42.0	25.2	16.8	11.2	5.6	5.6	5.6
157.5°	112.0	86.8	67.2	47.6	30.8	19.6	11.2	8.4	5.6	5.6	5.6
160°	78.4	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)