

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: P853471

Luminaire Tested: **CRTK-N-50-750-U-T2R-RMARROA5**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-111-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-N-50-750-U-T2R-RMARROA5
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

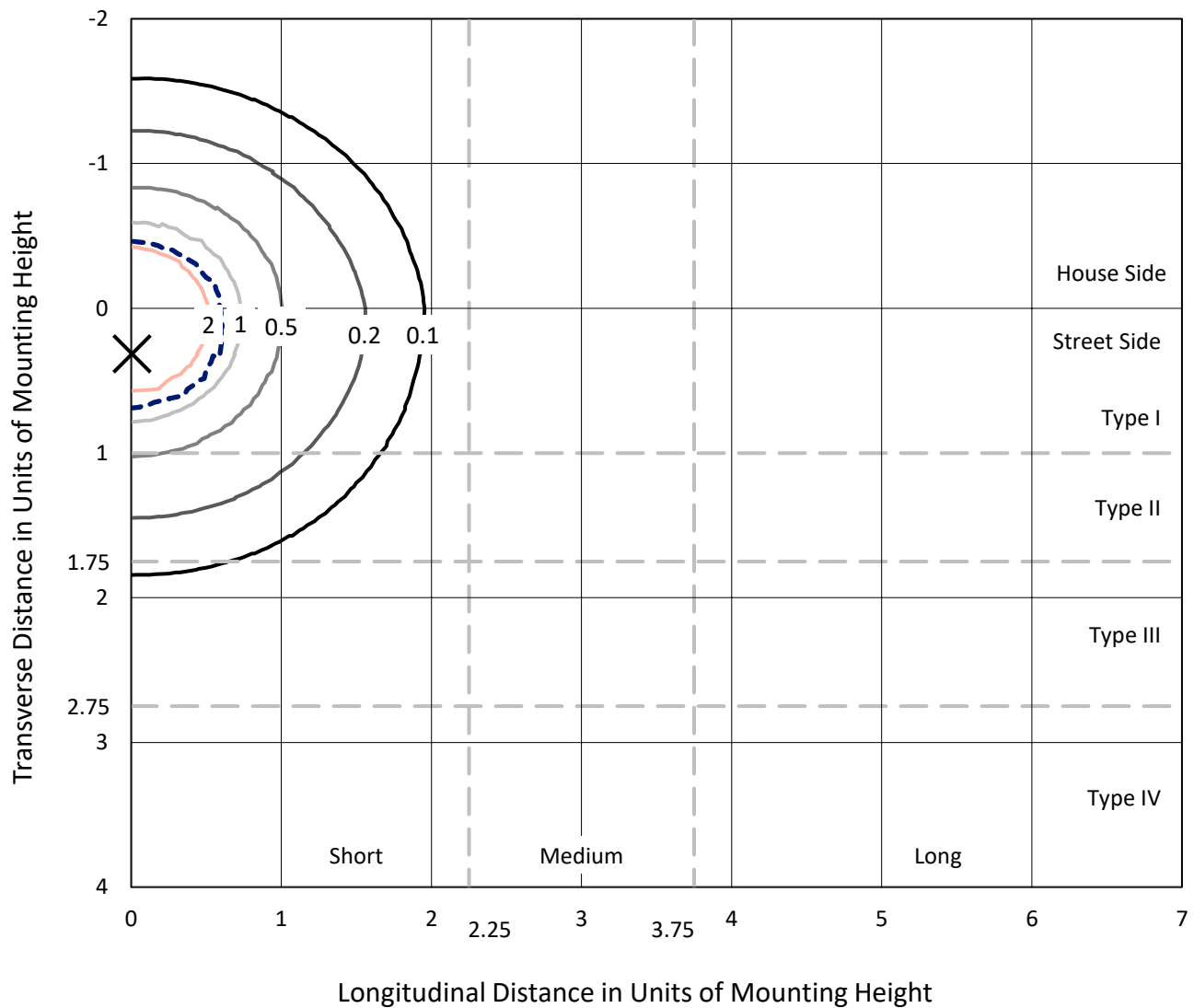
Lumens per Lamp: N/A
Luminaire Lumens: 5657 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U4 - G2

Input Watts (W): 47.7
Input Voltage (V): 120.0
Input Current (Ain): 0.398
Voltage Rise (V): NR
Power Factor: 0.9969
Total Harmonic Distortion (THDi): 6.56%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

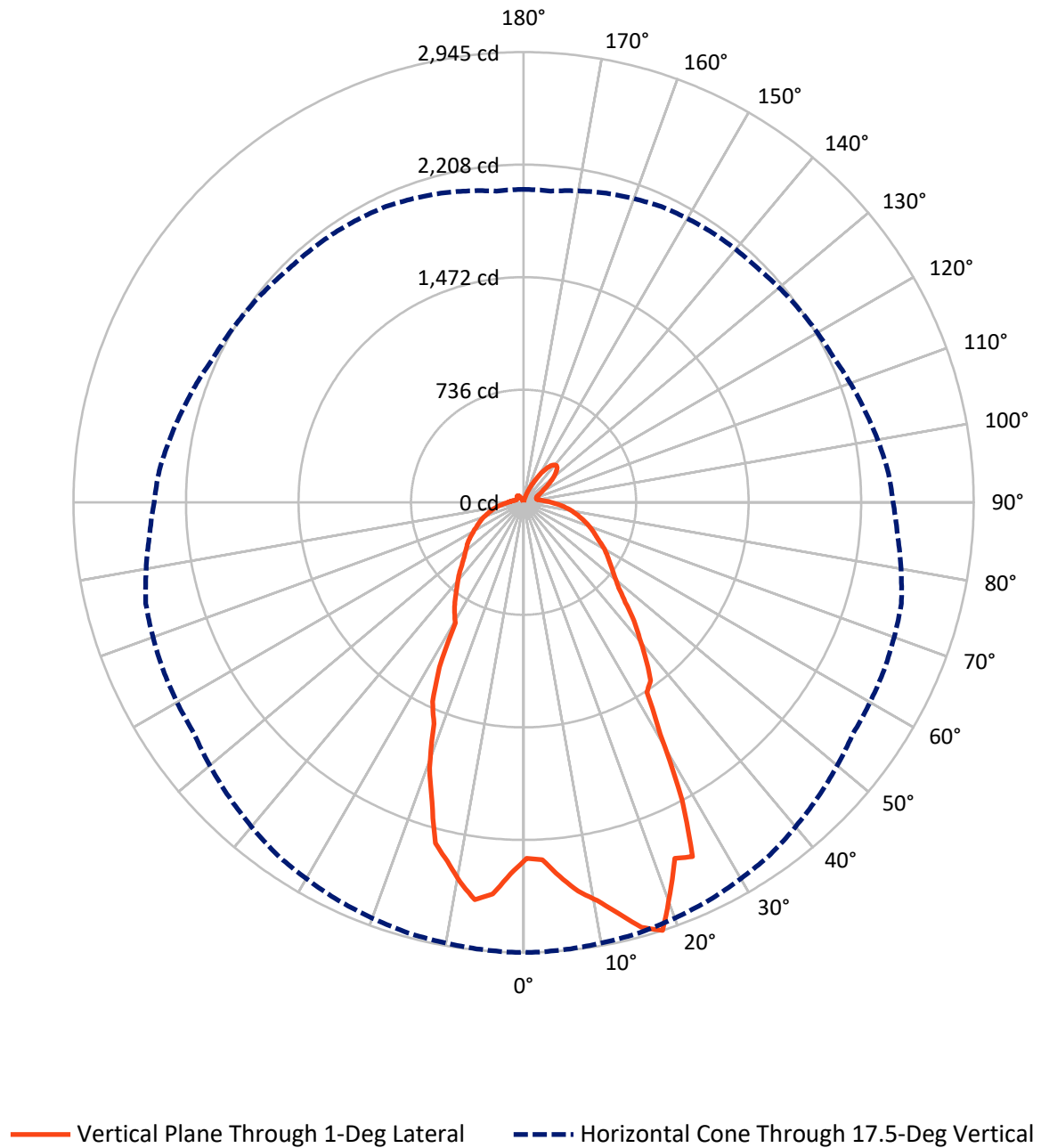


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type I - Short - N/A

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CATALOG NUMBER: CRTK-N-50-750-U-T2R-RMARROA5

Luminous Intensity Polar Plot



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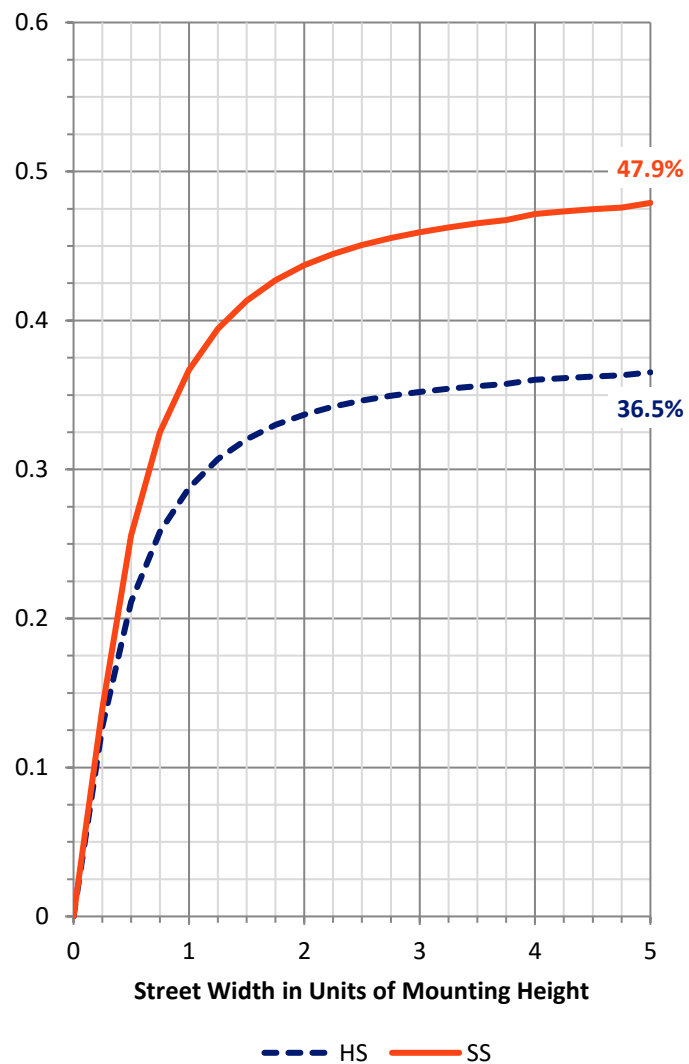
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2126.8	274.6	2401.4
	% Fixture	37.6	4.9	42.5
Street Side	Lumens	2776.3	479.3	3255.6
	% Fixture	49.1	8.5	57.5
Total	Lumens	4903.1	753.9	5657.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	4.1
10°-20°	690.5	12.2
20°-30°	864.7	15.3
30°-40°	730.4	12.9
40°-50°	642.9	11.4
50°-60°	598.2	10.6
60°-70°	509.2	9.0
70°-80°	387.0	6.8
80°-90°	246.5	4.4
90°-100°	134.3	2.4
100°-110°	83.0	1.5
110°-120°	84.4	1.5
120°-130°	123.3	2.2
130°-140°	160.4	2.8
140°-150°	121.2	2.1
150°-160°	42.7	0.8
160°-170°	4.6	0.1
170°-180°	0.0	0.0
0°-90°	4903.1	86.7
0°-180°	5657.0	100.0

Coefficient of Utilization



REPORT NUMBER: P853471

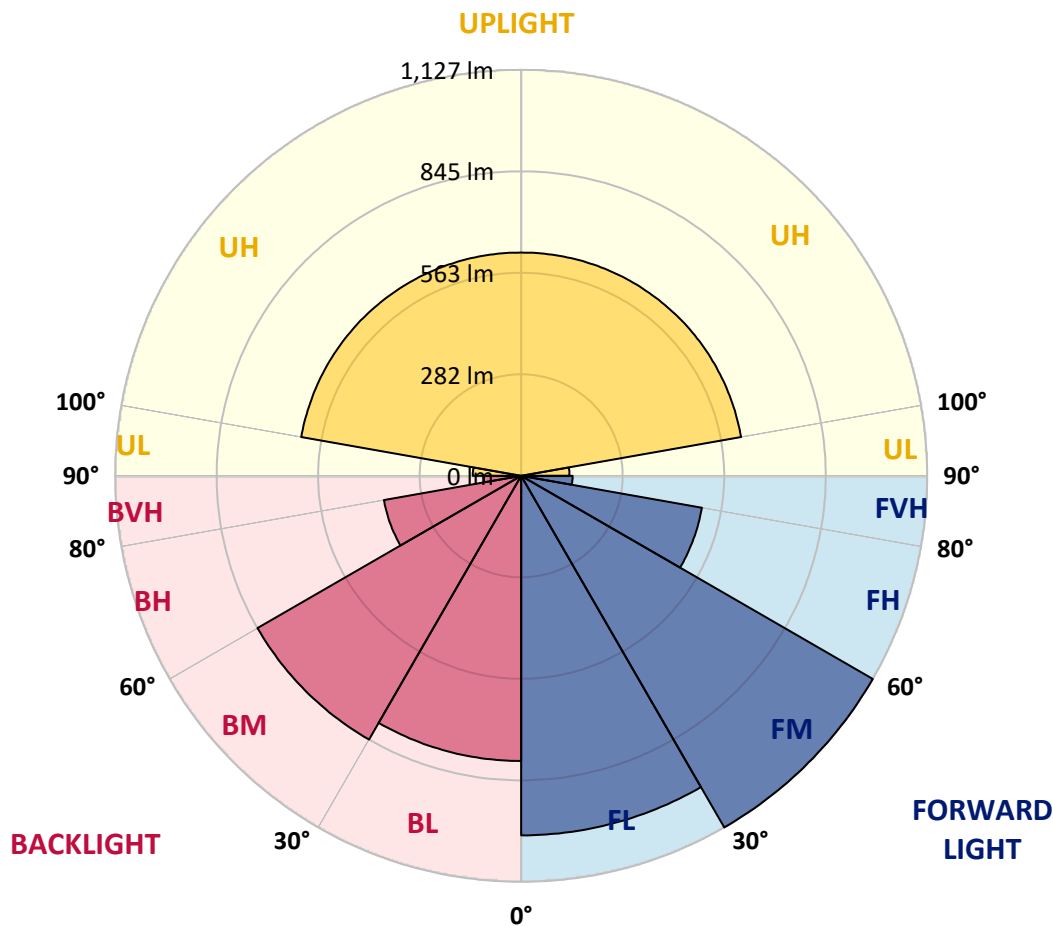
CATALOG NUMBER: CRTK-N-50-750-U-T2R-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	997.6	17.6			
FM	(30°-60°)	1126.6	19.9			
FH	(60°-80°)	509.4	9.0			G0/660
FVH	(80°-90°)	142.7	2.5			G2/225
BL	(0°-30°)	791.3	14.0	B2/1000		
BM	(30°-60°)	844.9	14.9	B1/1000		
BH	(60°-80°)	386.7	6.8	B1/500		G1/500
BVH	(80°-90°)	103.8	1.8			G2/225
UL	(90°-100°)	134.3	2.4		U3/500	
UH	(100°-180°)	619.6	11.0		U4/1000	

BUG Rating: B2-U4-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3
2.5°	2339.0	2340.7	2346.0	2354.9	2354.9	2354.9	2354.9	2347.8	2358.4	2354.9	2347.8
5°	2457.6	2457.6	2461.1	2466.4	2461.1	2454.1	2448.7	2436.3	2438.1	2427.5	2416.9
7.5°	2569.1	2569.1	2572.7	2576.2	2558.5	2555.0	2532.0	2498.3	2462.9	2424.0	2383.2
10°	2647.0	2648.8	2655.9	2652.4	2640.0	2616.9	2565.6	2500.1	2434.6	2365.5	2308.9
12.5°	2758.6	2758.6	2756.8	2767.4	2742.7	2703.7	2625.8	2533.7	2461.1	2385.0	2303.5
15°	2879.0	2884.3	2902.0	2905.6	2868.4	2811.7	2723.2	2631.1	2547.9	2466.4	2370.8
17.5°	2942.7	2944.5	2939.2	2916.2	2871.9	2813.5	2725.0	2632.9	2601.0	2558.5	2455.8
20°	2732.0	2733.8	2749.7	2746.2	2737.3	2820.6	2735.6	2618.7	2537.3	2402.7	2216.8
22.5°	2530.2	2530.2	2562.1	2645.3	2595.7	2553.2	2454.1	2400.9	2222.1	2197.3	2107.0
25°	2562.1	2567.4	2558.5	2427.5	2323.0	2365.5	2252.2	2130.0	2147.7	2094.6	1894.5
27.5°	2204.4	2209.7	2234.5	2287.6	2167.2	2096.4	2025.6	1880.4	1899.9	1845.0	1873.3
30°	1772.4	1761.7	1770.6	1786.5	1710.4	1690.9	1675.0	1641.3	1641.3	1462.5	1352.7
32.5°	1474.9	1480.2	1483.8	1478.5	1474.9	1480.2	1450.1	1423.6	1402.3	1363.4	1324.4
35°	1434.2	1432.4	1436.0	1418.2	1389.9	1384.6	1372.2	1368.7	1349.2	1296.1	1267.7
37.5°	1301.4	1299.6	1304.9	1297.8	1267.7	1273.1	1264.2	1251.8	1228.8	1172.1	1150.9
40°	1170.4	1168.6	1170.4	1165.1	1138.5	1133.2	1127.9	1120.8	1101.3	1060.6	1046.4
42.5°	1064.1	1060.6	1064.1	1058.8	1032.3	1028.7	1025.2	1021.6	1009.2	979.1	975.6
45°	934.9	933.1	936.6	938.4	922.5	931.3	934.9	933.1	924.3	903.0	897.7
47.5°	837.5	837.5	839.3	851.7	846.3	858.7	865.8	869.4	874.7	880.0	880.0
50°	775.5	775.5	775.5	791.5	803.9	830.4	842.8	851.7	862.3	849.9	839.3
52.5°	724.2	725.9	727.7	741.9	761.4	787.9	807.4	823.3	828.6	816.2	810.9
55°	681.7	679.9	685.2	697.6	718.9	743.7	763.1	780.8	798.5	802.1	802.1
57.5°	641.0	642.7	646.3	660.4	681.7	708.2	736.6	763.1	787.9	810.9	821.6
60°	602.0	602.0	603.8	617.9	637.4	664.0	694.1	717.1	743.7	736.6	740.1
62.5°	554.2	554.2	557.7	570.1	589.6	609.1	628.6	641.0	658.7	658.7	662.2
65°	518.8	517.0	520.6	531.2	548.9	563.1	582.5	594.9	612.6	617.9	623.3
67.5°	483.4	483.4	485.1	494.0	511.7	525.9	540.0	554.2	570.1	575.4	582.5
70°	451.5	451.5	451.5	460.4	476.3	488.7	501.1	513.5	529.4	529.4	538.3
72.5°	414.3	414.3	421.4	424.9	442.6	453.3	463.9	472.7	486.9	486.9	494.0
75°	382.4	378.9	384.2	389.5	405.5	414.3	421.4	430.3	444.4	442.6	448.0
77.5°	348.8	345.3	350.6	355.9	366.5	375.4	378.9	387.8	396.6	394.8	400.2
80°	313.4	311.6	316.9	318.7	329.3	336.4	340.0	345.3	354.1	350.6	357.7
82.5°	279.8	276.2	281.5	283.3	290.4	297.5	301.0	304.5	311.6	308.1	313.4
85°	244.3	240.8	244.3	247.9	253.2	260.3	262.0	263.8	272.7	267.4	272.7
87.5°	208.9	205.4	210.7	212.5	217.8	223.1	226.6	226.6	233.7	228.4	233.7
90°	178.8	175.3	178.8	180.6	184.1	189.5	191.2	193.0	198.3	193.0	198.3
92.5°	150.5	147.0	150.5	152.3	155.8	161.1	164.7	164.7	170.0	162.9	168.2
95°	127.5	123.9	127.5	129.3	131.0	134.6	138.1	139.9	143.4	138.1	141.6
97.5°	109.8	108.0	109.8	109.8	111.5	115.1	118.6	120.4	122.2	116.9	118.6
100°	97.4	95.6	97.4	97.4	97.4	99.2	100.9	102.7	104.5	99.2	100.9
102.5°	90.3	90.3	90.3	90.3	90.3	92.1	93.8	93.8	92.1	88.5	88.5
105°	86.8	86.8	86.8	86.8	86.8	88.5	88.5	88.5	86.8	85.0	83.2
107.5°	86.8	88.5	86.8	86.8	86.8	88.5	88.5	86.8	85.0	83.2	79.7
110°	90.3	92.1	90.3	90.3	90.3	90.3	90.3	88.5	85.0	83.2	79.7

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CATALOG NUMBER: CRTK-N-50-750-U-T2R-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	95.6	97.4	97.4	97.4	95.6	95.6	93.8	92.1	88.5	86.8	83.2
115°	104.5	108.0	106.2	106.2	104.5	104.5	102.7	99.2	95.6	93.8	90.3
117.5°	118.6	122.2	120.4	120.4	120.4	116.9	113.3	109.8	106.2	104.5	100.9
120°	138.1	141.6	139.9	139.9	139.9	134.6	132.8	125.7	122.2	120.4	115.1
122.5°	162.9	166.4	164.7	162.9	164.7	157.6	154.0	147.0	141.6	141.6	132.8
125°	191.2	196.5	194.8	193.0	193.0	185.9	182.4	173.5	166.4	164.7	155.8
127.5°	224.9	230.2	228.4	226.6	224.9	217.8	214.2	203.6	194.8	191.2	180.6
130°	258.5	263.8	262.0	260.3	260.3	253.2	247.9	237.3	226.6	217.8	203.6
132.5°	288.6	292.1	290.4	290.4	292.1	286.8	281.5	267.4	253.2	240.8	224.9
135°	311.6	313.4	313.4	313.4	316.9	311.6	304.5	292.1	274.4	258.5	242.6
137.5°	322.2	322.2	322.2	324.0	327.6	324.0	316.9	306.3	288.6	270.9	253.2
140°	318.7	316.9	318.7	320.5	324.0	324.0	316.9	306.3	290.4	270.9	255.0
142.5°	304.5	301.0	302.8	306.3	308.1	313.4	306.3	295.7	281.5	262.0	247.9
145°	278.0	272.7	274.4	278.0	279.8	286.8	281.5	272.7	262.0	244.3	231.9
147.5°	242.6	237.3	239.0	244.3	242.6	249.7	246.1	240.8	233.7	216.0	207.2
150°	201.8	194.8	198.3	201.8	198.3	205.4	201.8	200.1	196.5	182.4	175.3
152.5°	159.4	152.3	155.8	159.4	154.0	159.4	155.8	157.6	155.8	143.4	139.9
155°	122.2	116.9	118.6	120.4	115.1	118.6	116.9	118.6	118.6	108.0	106.2
157.5°	88.5	83.2	85.0	86.8	83.2	85.0	85.0	85.0	86.8	77.9	76.1
160°	58.4	54.9	56.7	56.7	54.9	56.7	56.7	56.7	58.4	51.3	51.3
162.5°	33.6	30.1	31.9	33.6	31.9	33.6	33.6	35.4	35.4	30.1	30.1
165°	14.2	10.6	12.4	12.4	12.4	14.2	14.2	15.9	15.9	12.4	12.4
167.5°	0.0	0.0	0.0	0.0	0.0	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

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CATALOG NUMBER: CRTK-N-50-750-U-T2R-RMARROA5

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3	2328.3
2.5°	2347.8	2354.9	2365.5	2377.9	2385.0	2395.6	2404.5	2416.9	2429.3	2434.6	2429.3
5°	2413.3	2420.4	2429.3	2441.7	2448.7	2452.3	2475.3	2512.5	2546.1	2569.1	2569.1
7.5°	2369.1	2363.7	2372.6	2386.8	2399.2	2425.7	2457.6	2507.2	2572.7	2615.2	2620.5
10°	2285.8	2280.5	2271.7	2280.5	2289.4	2314.2	2347.8	2397.4	2466.4	2512.5	2517.8
12.5°	2277.0	2262.8	2248.7	2248.7	2248.7	2261.1	2287.6	2323.0	2363.7	2393.9	2400.9
15°	2340.7	2323.0	2296.5	2284.1	2268.1	2255.7	2257.5	2266.4	2292.9	2307.1	2301.8
17.5°	2416.9	2392.1	2312.4	2238.0	2200.9	2165.4	2153.0	2133.6	2092.8	2043.3	2046.8
20°	2188.5	2174.3	2179.6	2147.7	2099.9	2013.2	1859.1	1809.6	1818.4	1843.2	1841.4
22.5°	2064.5	2025.6	1944.1	1837.9	1846.7	1719.3	1705.1	1694.5	1600.6	1567.0	1561.7
25°	1848.5	1848.5	1850.3	1698.0	1623.6	1540.4	1478.5	1436.0	1405.9	1409.4	1439.5
27.5°	1827.3	1758.2	1613.0	1464.3	1375.8	1361.6	1310.2	1212.9	1218.2	1216.4	1209.3
30°	1327.9	1308.5	1333.3	1296.1	1228.8	1159.7	1099.5	1046.4	993.3	915.4	904.8
32.5°	1299.6	1274.8	1219.9	1149.1	1090.7	1032.3	973.8	924.3	878.2	855.2	849.9
35°	1253.6	1230.6	1172.1	1101.3	1041.1	980.9	918.9	865.8	818.0	802.1	791.5
37.5°	1143.8	1124.3	1074.8	1011.0	956.1	901.2	841.0	796.8	756.0	740.1	729.5
40°	1039.3	1025.2	979.1	924.3	871.1	821.6	772.0	733.0	699.4	683.5	676.4
42.5°	970.3	954.4	908.3	853.4	807.4	756.0	713.6	678.1	648.0	633.9	626.8
45°	894.2	881.8	839.3	791.5	745.4	692.3	655.1	621.5	593.2	580.8	573.7
47.5°	869.4	849.9	796.8	745.4	699.4	649.8	610.9	575.4	550.7	540.0	533.0
50°	832.2	814.5	764.9	715.3	665.7	614.4	573.7	538.3	515.2	504.6	499.3
52.5°	798.5	775.5	729.5	676.4	626.8	577.2	540.0	509.9	486.9	476.3	471.0
55°	793.2	766.7	715.3	656.9	598.5	550.7	511.7	481.6	458.6	449.7	444.4
57.5°	803.9	773.8	704.7	632.1	571.9	522.3	483.4	455.0	432.0	417.9	412.5
60°	741.9	722.4	655.1	600.2	543.6	492.2	453.3	423.2	396.6	387.8	380.7
62.5°	660.4	644.5	594.9	545.3	501.1	456.8	419.6	389.5	364.7	355.9	350.6
65°	619.7	605.5	561.3	513.5	471.0	430.3	391.3	363.0	340.0	331.1	325.8
67.5°	580.8	568.4	527.6	479.8	439.1	396.6	364.7	336.4	315.2	306.3	302.8
70°	536.5	525.9	485.1	440.9	400.2	364.7	336.4	309.9	290.4	283.3	278.0
72.5°	492.2	479.8	442.6	396.6	363.0	329.3	304.5	281.5	262.0	255.0	251.4
75°	448.0	435.6	394.8	357.7	325.8	297.5	274.4	253.2	237.3	230.2	226.6
77.5°	400.2	387.8	354.1	320.5	292.1	267.4	246.1	228.4	212.5	207.2	203.6
80°	355.9	343.5	315.2	283.3	258.5	237.3	219.6	201.8	189.5	184.1	182.4
82.5°	313.4	302.8	276.2	249.7	226.6	207.2	193.0	178.8	168.2	162.9	161.1
85°	270.9	262.0	239.0	216.0	196.5	180.6	164.7	154.0	145.2	141.6	138.1
87.5°	231.9	223.1	203.6	184.1	168.2	154.0	139.9	131.0	123.9	122.2	116.9
90°	196.5	189.5	173.5	157.6	143.4	131.0	120.4	113.3	106.2	104.5	102.7
92.5°	168.2	161.1	148.7	136.3	125.7	113.3	106.2	99.2	95.6	93.8	92.1
95°	141.6	138.1	127.5	116.9	109.8	100.9	93.8	88.5	85.0	85.0	83.2
97.5°	120.4	116.9	108.0	102.7	95.6	88.5	83.2	79.7	77.9	77.9	74.4
100°	100.9	99.2	92.1	86.8	83.2	77.9	72.6	70.8	69.1	69.1	67.3
102.5°	88.5	86.8	81.4	76.1	72.6	69.1	65.5	63.7	62.0	62.0	60.2
105°	81.4	79.7	74.4	70.8	67.3	63.7	60.2	58.4	56.7	56.7	54.9
107.5°	77.9	76.1	72.6	69.1	63.7	60.2	58.4	56.7	51.3	53.1	53.1
110°	77.9	76.1	72.6	69.1	63.7	60.2	58.4	54.9	47.8	51.3	49.6

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CATALOG NUMBER: CRTK-N-50-750-U-T2R-RMARROA5

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	81.4	79.7	76.1	70.8	65.5	62.0	58.4	54.9	46.0	49.6	49.6
115°	88.5	85.0	81.4	76.1	70.8	65.5	62.0	56.7	46.0	47.8	47.8
117.5°	97.4	93.8	90.3	83.2	76.1	70.8	65.5	58.4	47.8	47.8	47.8
120°	111.5	106.2	100.9	92.1	83.2	77.9	70.8	62.0	49.6	49.6	49.6
122.5°	127.5	122.2	115.1	102.7	92.1	85.0	76.1	67.3	51.3	51.3	51.3
125°	147.0	141.6	132.8	116.9	102.7	95.6	83.2	70.8	54.9	53.1	53.1
127.5°	171.7	162.9	150.5	131.0	115.1	106.2	90.3	74.4	56.7	53.1	54.9
130°	194.8	184.1	168.2	147.0	129.3	115.1	99.2	79.7	60.2	53.1	56.7
132.5°	214.2	203.6	185.9	162.9	141.6	125.7	106.2	83.2	62.0	54.9	56.7
135°	231.9	221.3	200.1	175.3	152.3	132.8	111.5	86.8	63.7	56.7	58.4
137.5°	244.3	233.7	208.9	184.1	159.4	136.3	113.3	88.5	63.7	56.7	56.7
140°	246.1	237.3	210.7	185.9	159.4	136.3	111.5	88.5	63.7	56.7	56.7
142.5°	240.8	230.2	205.4	180.6	155.8	131.0	108.0	83.2	60.2	53.1	53.1
145°	226.6	217.8	193.0	170.0	145.2	122.2	99.2	76.1	54.9	47.8	47.8
147.5°	201.8	194.8	171.7	154.0	129.3	108.0	86.8	67.3	47.8	40.7	40.7
150°	173.5	168.2	147.0	131.0	111.5	90.3	72.6	56.7	39.0	33.6	31.9
152.5°	141.6	136.3	118.6	106.2	88.5	72.6	58.4	44.3	31.9	26.6	24.8
155°	106.2	104.5	88.5	81.4	67.3	54.9	44.3	33.6	23.0	19.5	17.7
157.5°	77.9	74.4	63.7	58.4	49.6	40.7	31.9	24.8	15.9	12.4	10.6
160°	51.3	51.3	42.5	39.0	33.6	26.6	21.2	15.9	10.6	7.1	5.3
162.5°	30.1	30.1	24.8	23.0	21.2	15.9	12.4	10.6	7.1	3.5	3.5
165°	14.2	14.2	10.6	10.6	8.9	8.9	7.1	5.3	3.5	3.5	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	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)