

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: P24452

Luminaire Tested: **CRTK-X-A12-X-120-2-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P24452
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-X-A12-X-120-2-5000K
Description: STREETWORKS CARETAKER 12 CHIP TYPE 2 5000K
STANDARD IN THE GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6666.9 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.66' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

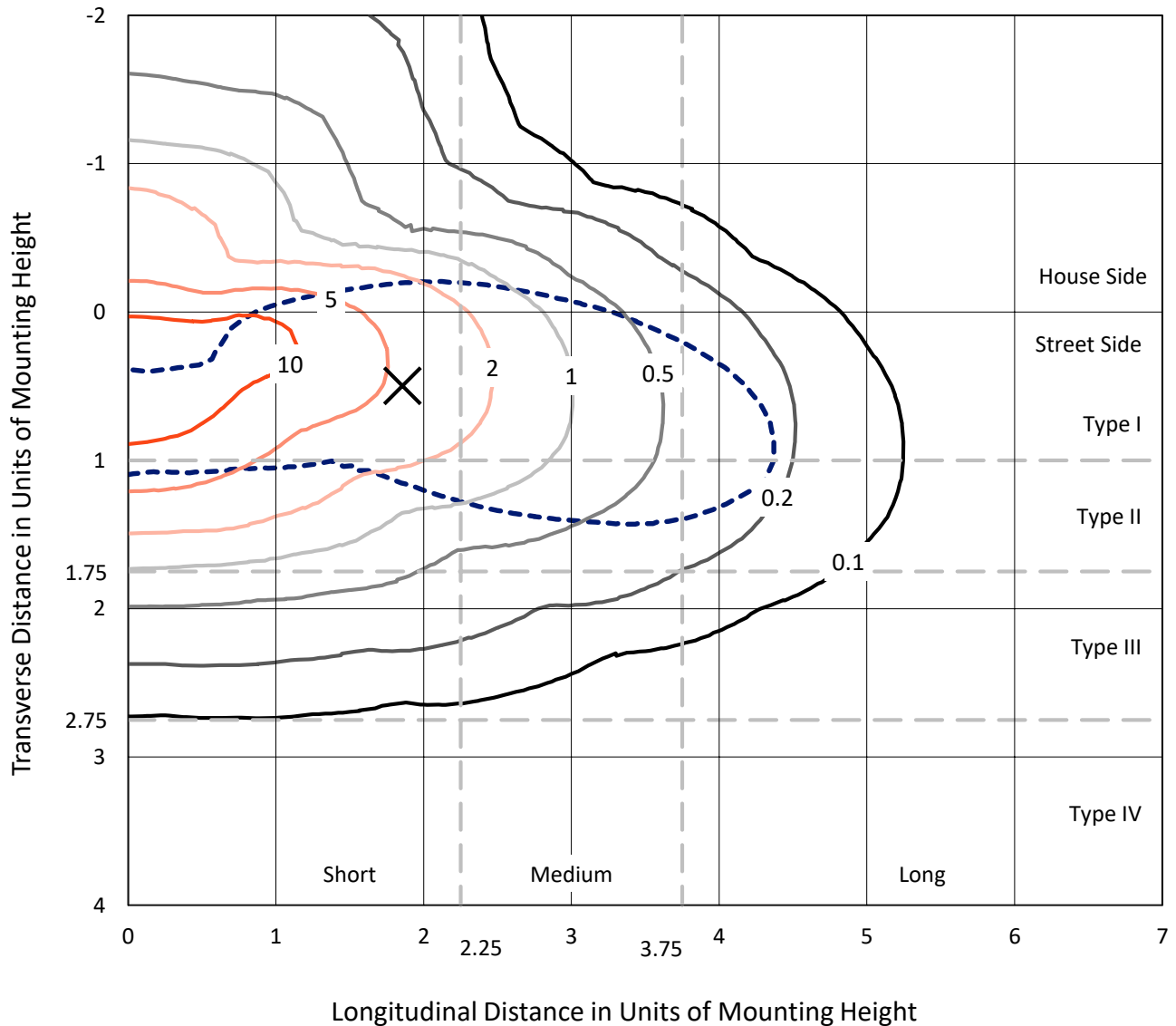
Input Watts (W): 71.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P24452
 CATALOG NUMBER: CRTK-X-A12-X-120-2-5000K

Iso-Footcandle Lines of Horizontal Illumination

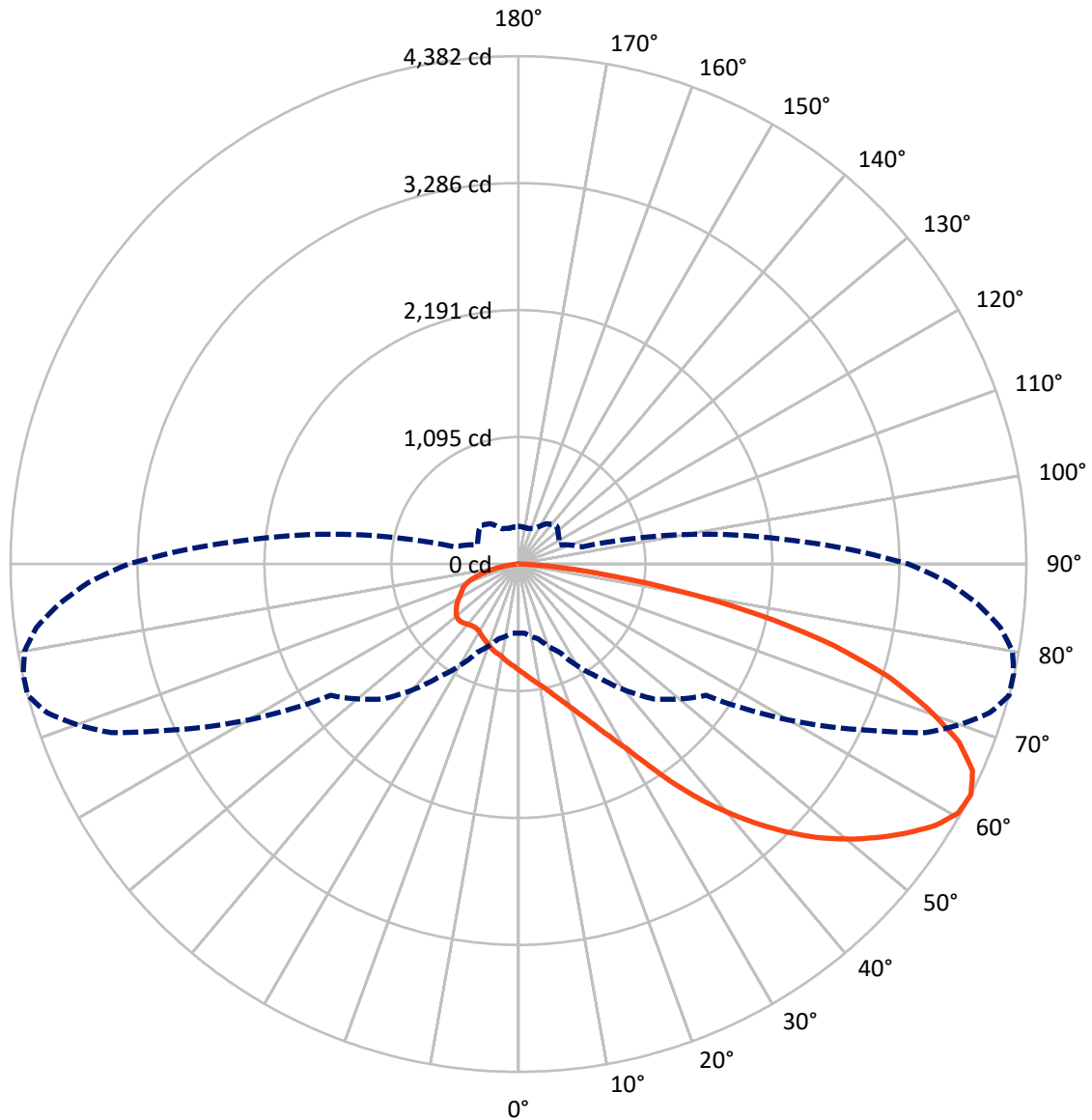
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P24452
CATALOG NUMBER: CRTK-X-A12-X-120-2-5000K

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P24452

CATALOG NUMBER: CRTK-X-A12-X-120-2-5000K

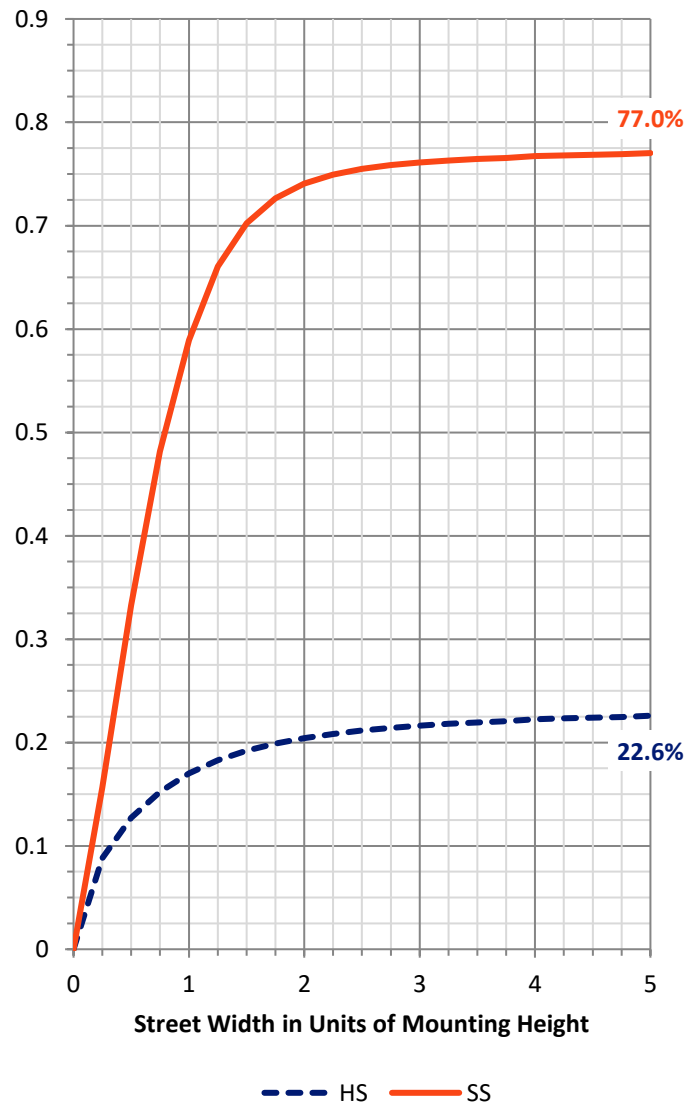
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1525.6	0.0	1525.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5141.3	0.0	5141.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	6666.9	0.0	6666.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.3
10°-20°	302.3	4.5
20°-30°	583.3	8.7
30°-40°	919.7	13.8
40°-50°	1254.6	18.8
50°-60°	1407.7	21.1
60°-70°	1242.7	18.6
70°-80°	736.7	11.0
80°-90°	130.0	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6666.9	100.0
0°-180°	6666.9	100.0

Coefficient of Utilization



REPORT NUMBER: P24452

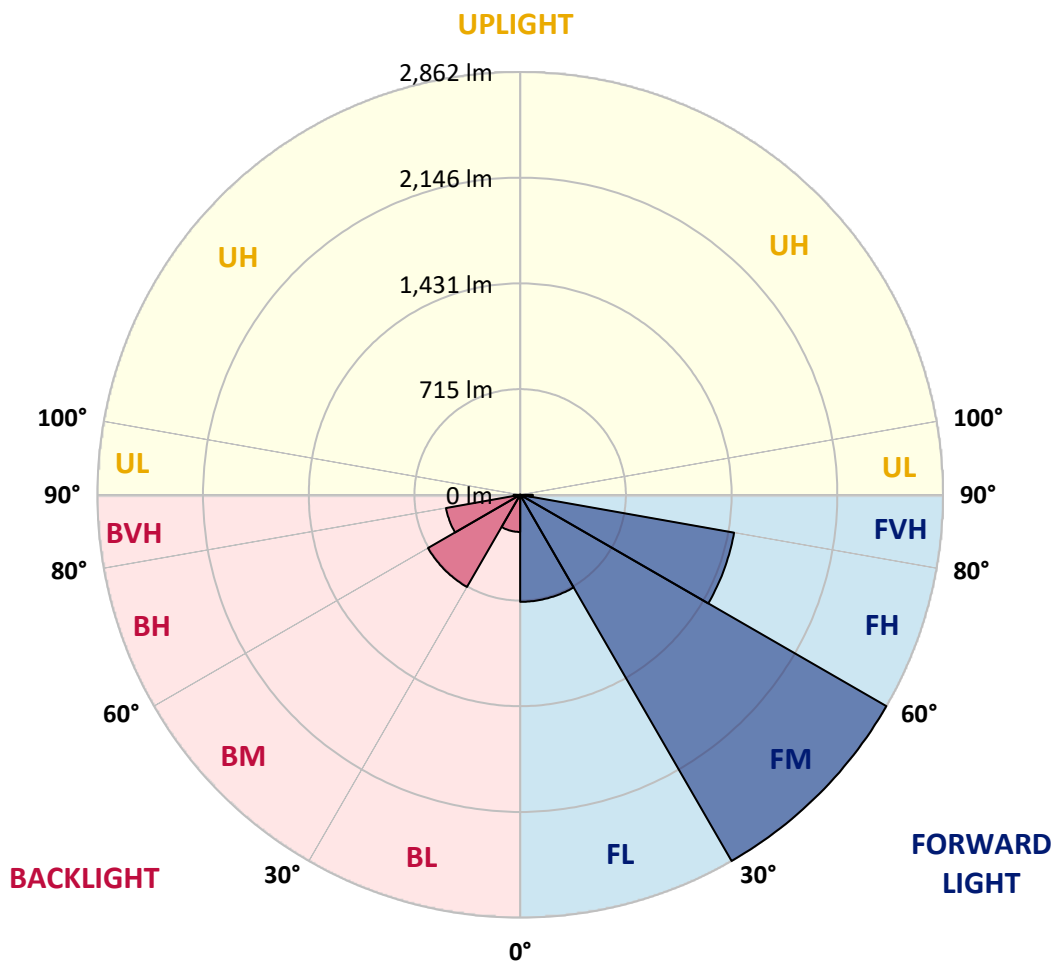
CATALOG NUMBER: CRTK-X-A12-X-120-2-5000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	724.2	10.9			
FM (30°-60°)	2861.8	42.9			
FH (60°-80°)	1469.9	22.0			G1/1800
FVH (80°-90°)	85.4	1.3			G1/100
BL (0°-30°)	251.4	3.8	B1/500		
BM (30°-60°)	720.2	10.8	B1/1000		
BH (60°-80°)	509.4	7.6	B2/1000		G2/1000
BVH (80°-90°)	44.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P24452

CATALOG NUMBER: CRTK-X-A12-X-120-2-5000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	70°	72.5°
0°	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2
2.5°	1045.2	1024.0	1020.8	1029.3	1020.8	1010.3	990.2	958.4	963.7	950.0	956.3
5°	1166.8	1148.8	1142.5	1144.6	1125.6	1102.3	1066.3	1016.6	1017.7	996.5	998.6
7.5°	1317.0	1293.8	1280.0	1275.8	1240.9	1198.6	1142.5	1074.8	1070.6	1044.1	1040.9
10°	1479.9	1451.4	1432.3	1418.6	1364.6	1304.3	1227.1	1134.0	1125.6	1093.8	1085.4
12.5°	1646.0	1616.4	1593.1	1565.6	1508.5	1420.7	1325.5	1208.1	1195.4	1155.2	1141.4
15°	1816.3	1793.1	1764.5	1731.7	1659.8	1563.5	1442.9	1296.9	1281.1	1233.5	1214.4
17.5°	1986.7	1962.3	1928.5	1892.5	1808.9	1694.7	1561.4	1397.4	1372.0	1318.1	1292.7
20°	2136.9	2106.2	2069.2	2033.2	1946.5	1823.7	1678.8	1499.0	1474.7	1413.3	1380.5
22.5°	2255.4	2225.7	2189.8	2159.1	2071.3	1948.6	1797.3	1615.3	1581.5	1522.3	1486.3
25°	2361.1	2326.2	2295.5	2272.3	2187.6	2069.2	1921.1	1734.9	1707.4	1645.0	1604.8
27.5°	2440.5	2407.7	2383.4	2366.4	2289.2	2180.2	2033.2	1866.1	1842.8	1780.4	1745.5
30°	2489.1	2457.4	2439.4	2429.9	2362.2	2271.2	2145.3	2000.4	1987.7	1931.6	1903.1
32.5°	2501.8	2475.4	2464.8	2462.7	2404.5	2340.0	2245.8	2143.2	2145.3	2108.3	2102.0
35°	2492.3	2469.0	2464.8	2478.6	2436.2	2387.6	2329.4	2298.7	2325.2	2319.9	2345.3
37.5°	2469.0	2446.8	2453.2	2479.6	2455.3	2428.8	2407.7	2451.1	2513.5	2534.6	2582.2
40°	2431.0	2410.9	2421.4	2465.9	2457.4	2457.4	2473.3	2604.4	2699.7	2743.0	2815.0
42.5°	2380.2	2359.0	2372.8	2431.0	2441.5	2468.0	2525.1	2755.7	2877.4	2937.7	3041.3
45°	2325.2	2305.1	2315.6	2382.3	2415.1	2464.8	2562.1	2898.5	3050.9	3150.3	3260.3
47.5°	2222.6	2206.7	2234.2	2320.9	2391.8	2464.8	2587.5	3027.6	3218.0	3328.0	3463.4
50°	1998.3	1997.2	2081.9	2203.5	2322.0	2462.7	2607.6	3160.9	3376.7	3499.4	3648.5
52.5°	1643.9	1656.6	1818.5	2019.4	2184.5	2396.0	2593.9	3298.4	3537.5	3668.6	3829.4
55°	1277.9	1280.0	1447.1	1757.1	1974.0	2269.1	2519.8	3409.5	3681.3	3837.9	4006.1
57.5°	1013.4	1012.4	1101.2	1451.4	1726.4	2082.9	2382.3	3464.5	3781.8	3971.2	4156.3
60°	791.3	790.2	857.9	1123.4	1450.3	1873.5	2194.0	3463.4	3829.4	4062.2	4258.9
62.5°	595.6	597.7	668.6	839.9	1185.9	1645.0	1976.1	3402.1	3800.9	4054.8	4265.3
65°	441.1	446.4	517.3	640.0	935.1	1400.6	1742.3	3267.7	3682.4	3956.4	4178.5
67.5°	325.8	329.0	393.5	497.2	707.7	1153.1	1502.2	3051.9	3467.7	3745.9	3976.5
70°	239.1	238.0	284.6	367.1	516.2	916.1	1269.4	2729.3	3134.4	3424.3	3651.7
72.5°	176.7	180.9	212.6	274.0	386.1	702.4	1039.9	2319.9	2695.4	3004.3	3218.0
75°	151.3	150.2	180.9	214.7	276.1	506.7	807.1	1855.5	2205.6	2493.4	2702.8
77.5°	123.8	123.8	171.4	183.0	198.9	329.0	528.9	1256.7	1557.2	1820.6	1995.1
80°	88.9	93.1	142.8	149.2	154.4	198.9	269.8	652.7	909.8	1106.5	1259.9
82.5°	79.3	68.8	119.5	112.1	101.6	125.9	135.4	262.3	393.5	526.8	638.9
85°	39.1	42.3	98.4	80.4	50.8	67.7	85.7	111.1	154.4	205.2	272.9
87.5°	14.8	13.8	23.3	28.6	15.9	20.1	22.2	11.6	10.6	9.5	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P24452

CATALOG NUMBER: CRTK-X-A12-X-120-2-5000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°	95°	105°	115°	125°
0°	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2	917.2
2.5°	946.8	937.3	937.3	926.7	921.4	919.3	915.0	904.5	887.5	868.5	842.1
5°	984.9	971.1	965.8	950.0	938.3	932.0	923.5	901.3	865.3	825.1	786.0
7.5°	1024.0	1006.0	995.4	972.2	956.3	943.6	930.9	896.0	843.1	783.9	733.1
10°	1065.3	1042.0	1025.1	996.5	973.2	956.3	936.2	892.8	817.7	745.8	682.3
12.5°	1115.0	1083.2	1060.0	1028.2	997.6	974.3	948.9	892.8	798.7	714.1	637.9
15°	1178.5	1137.2	1107.6	1068.4	1032.5	1002.8	970.1	901.3	786.0	682.3	598.7
17.5°	1249.3	1200.7	1162.6	1116.0	1071.6	1033.5	992.3	910.8	770.1	647.4	558.5
20°	1330.8	1272.6	1227.1	1171.0	1116.0	1069.5	1020.8	921.4	749.0	610.4	518.3
22.5°	1430.2	1361.5	1307.5	1241.9	1174.2	1117.1	1056.8	937.3	728.9	571.2	485.6
25°	1547.6	1472.5	1406.9	1330.8	1250.4	1179.5	1105.5	960.5	711.9	536.3	459.1
27.5°	1688.3	1610.1	1540.2	1444.0	1356.2	1269.4	1177.4	994.4	695.0	503.5	435.8
30°	1853.4	1779.3	1710.6	1609.0	1509.6	1401.7	1287.4	1048.3	677.0	471.8	422.1
32.5°	2076.6	2018.4	1952.8	1849.1	1741.2	1612.2	1470.4	1157.3	664.3	444.3	414.7
35°	2337.9	2287.1	2222.6	2114.7	1998.3	1855.5	1683.1	1300.1	662.2	422.1	413.6
37.5°	2596.0	2556.8	2500.8	2392.9	2267.0	2111.5	1923.2	1460.9	666.4	400.9	412.6
40°	2840.3	2813.9	2761.0	2649.9	2511.4	2333.6	2127.3	1631.2	676.0	388.2	407.3
42.5°	3079.4	3058.3	3009.6	2897.5	2746.2	2553.7	2328.3	1774.0	689.7	382.9	403.0
45°	3313.2	3300.5	3250.8	3135.5	2974.7	2774.8	2531.5	1910.5	701.4	387.2	410.4
47.5°	3533.2	3523.7	3476.1	3353.4	3185.2	2975.8	2716.6	2036.4	705.6	396.7	427.4
50°	3731.1	3723.7	3675.0	3550.2	3374.6	3160.9	2883.7	2146.4	699.2	406.2	444.3
52.5°	3914.1	3904.5	3856.9	3725.8	3540.6	3321.7	3030.8	2231.0	681.3	415.7	454.9
55°	4090.7	4077.0	4020.9	3879.2	3682.4	3458.1	3155.6	2297.7	656.9	420.0	454.9
57.5°	4250.5	4232.5	4175.4	4027.3	3814.6	3579.8	3256.1	2342.1	633.7	416.8	447.5
60°	4360.5	4347.8	4294.9	4152.1	3934.2	3678.2	3333.3	2366.4	600.9	406.2	438.0
62.5°	4381.6	4376.4	4326.6	4194.4	3979.7	3717.3	3362.9	2356.9	568.1	388.2	422.1
65°	4306.5	4302.3	4254.7	4130.9	3917.2	3652.8	3278.3	2254.3	538.4	365.0	394.6
67.5°	4098.1	4089.7	4036.8	3914.1	3693.0	3423.2	3057.2	2045.9	519.4	338.5	360.7
70°	3755.4	3731.1	3661.2	3541.7	3314.3	3043.5	2706.0	1737.0	482.4	310.0	331.1
72.5°	3346.0	3313.2	3215.9	3093.2	2889.0	2597.0	2276.5	1386.9	420.0	278.2	299.4
75°	2811.8	2790.6	2732.4	2617.1	2419.3	2140.0	1844.9	1053.6	347.0	231.7	262.3
77.5°	2147.4	2171.8	2128.4	2037.4	1869.2	1614.3	1365.7	731.0	271.9	177.7	213.7
80°	1397.4	1450.3	1420.7	1343.5	1207.0	993.3	816.7	408.3	188.3	120.6	148.1
82.5°	740.5	771.2	736.3	680.2	581.8	449.6	366.0	182.0	100.5	71.9	85.7
85°	326.9	317.4	333.2	300.4	258.1	186.2	143.9	71.9	49.7	38.1	47.6
87.5°	9.5	9.5	9.5	10.6	9.5	8.5	8.5	9.5	7.4	7.4	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P24452

CATALOG NUMBER: CRTK-X-A12-X-120-2-5000K

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	917.2	917.2	917.2	917.2	917.2	917.2
2.5°	834.6	823.0	807.1	805.0	800.8	791.3
5°	764.8	743.7	721.5	714.1	706.6	699.2
7.5°	701.4	671.7	644.2	632.6	624.1	617.8
10°	642.1	607.2	580.8	568.1	558.5	553.3
12.5°	592.4	557.5	531.0	519.4	509.9	505.7
15°	552.2	518.3	497.2	488.7	482.4	479.2
17.5°	514.1	488.7	475.0	469.7	465.5	462.3
20°	484.5	469.7	461.2	460.2	457.0	455.9
22.5°	462.3	458.1	457.0	460.2	459.1	458.1
25°	447.5	452.8	459.1	464.4	463.3	462.3
27.5°	440.1	452.8	460.2	466.5	465.5	464.4
30°	436.9	450.6	458.1	464.4	464.4	463.3
32.5°	438.0	448.5	454.9	459.1	454.9	455.9
35°	436.9	445.4	451.7	455.9	461.2	463.3
37.5°	433.7	441.1	439.0	450.6	465.5	468.6
40°	433.7	438.0	427.4	431.6	443.2	445.4
42.5°	443.2	432.7	413.6	405.2	408.3	408.3
45°	455.9	423.1	400.9	385.1	381.9	379.8
47.5°	465.5	422.1	395.6	370.2	362.8	363.9
50°	463.3	427.4	394.6	357.6	349.1	353.3
52.5°	460.2	430.5	387.2	350.2	342.7	349.1
55°	463.3	429.5	380.8	344.9	341.7	345.9
57.5°	467.6	428.4	367.1	338.5	337.5	340.6
60°	472.9	428.4	351.2	329.0	329.0	333.2
62.5°	466.5	424.2	335.3	317.4	321.6	326.9
65°	451.7	424.2	319.5	303.6	314.2	316.3
67.5°	433.7	423.1	304.7	286.7	302.5	296.2
70°	420.0	425.3	289.9	266.6	285.6	276.1
72.5°	399.9	424.2	279.3	248.6	257.1	251.8
75°	366.0	409.4	263.4	224.3	211.6	207.3
77.5°	322.6	371.3	233.8	188.3	165.0	161.9
80°	237.0	283.5	191.5	151.3	126.9	125.9
82.5°	134.3	191.5	146.0	117.4	96.3	92.0
85°	76.2	113.2	86.7	81.5	73.0	70.9
87.5°	10.6	14.8	24.3	32.8	31.7	31.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)