

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: P691646

Luminaire Tested: **CRTK2-C018-5TLD-U-T5R-7050-U0-DS-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-30)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C018-5TLD-U-T5R-7050-U0-DS-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE V ROUND OPTIC AND UO SHIELD WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5337 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U2 - G2

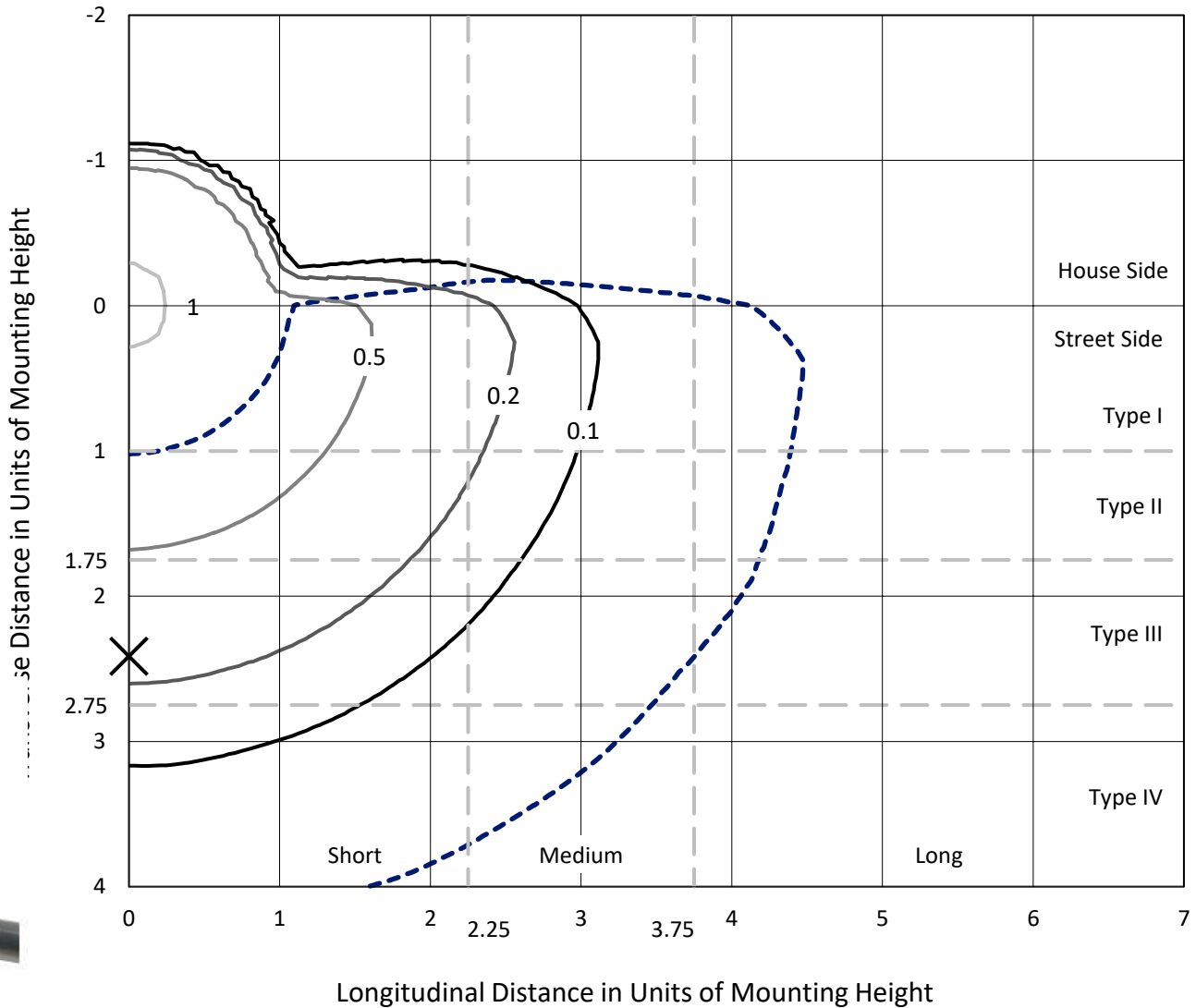
Input Watts (W): 53.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P691646
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-U0-DS-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

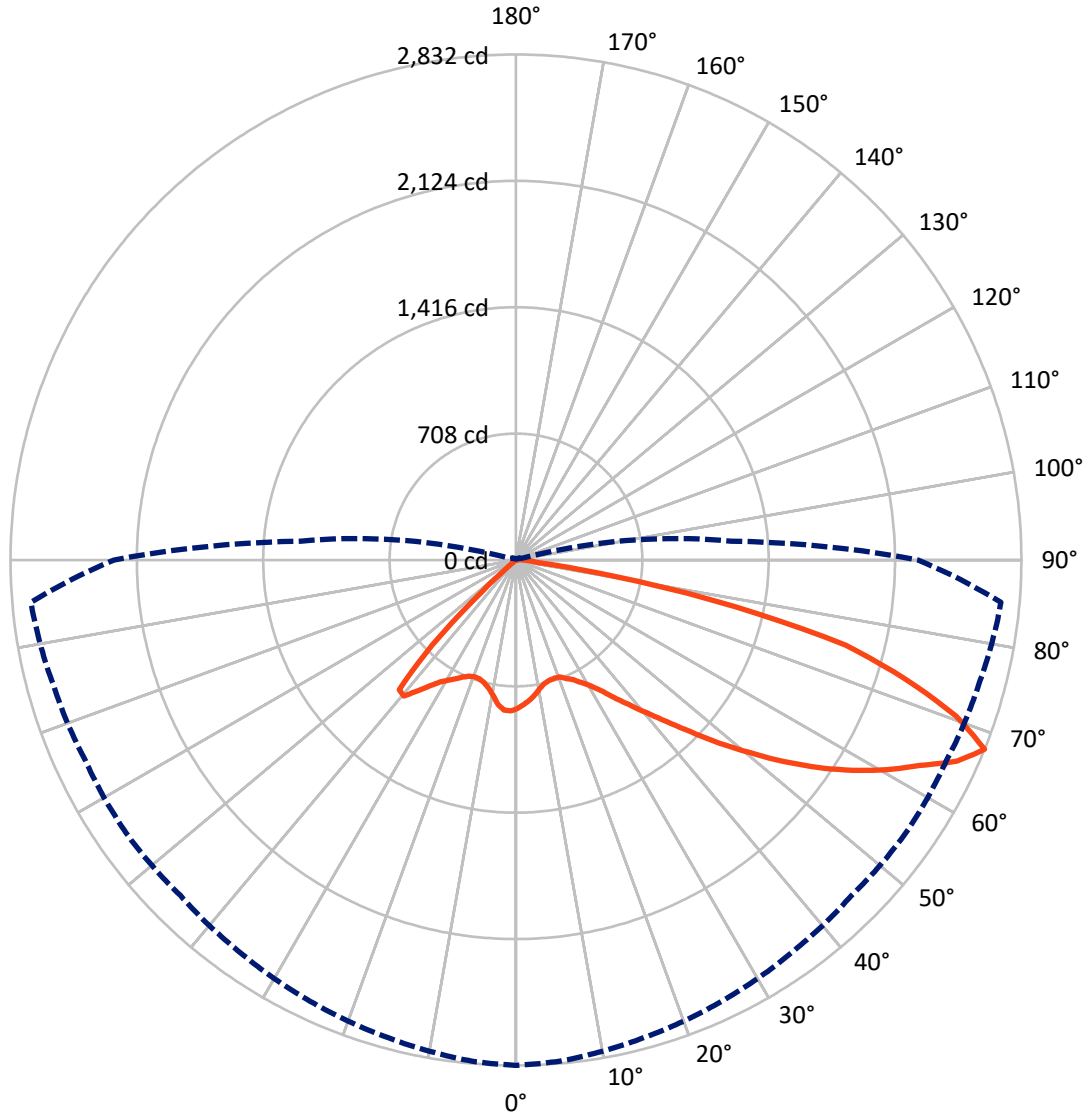
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P691646
CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-U0-DS-HSS-CRTK2

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P691646

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-U0-DS-HSS-CRTK2

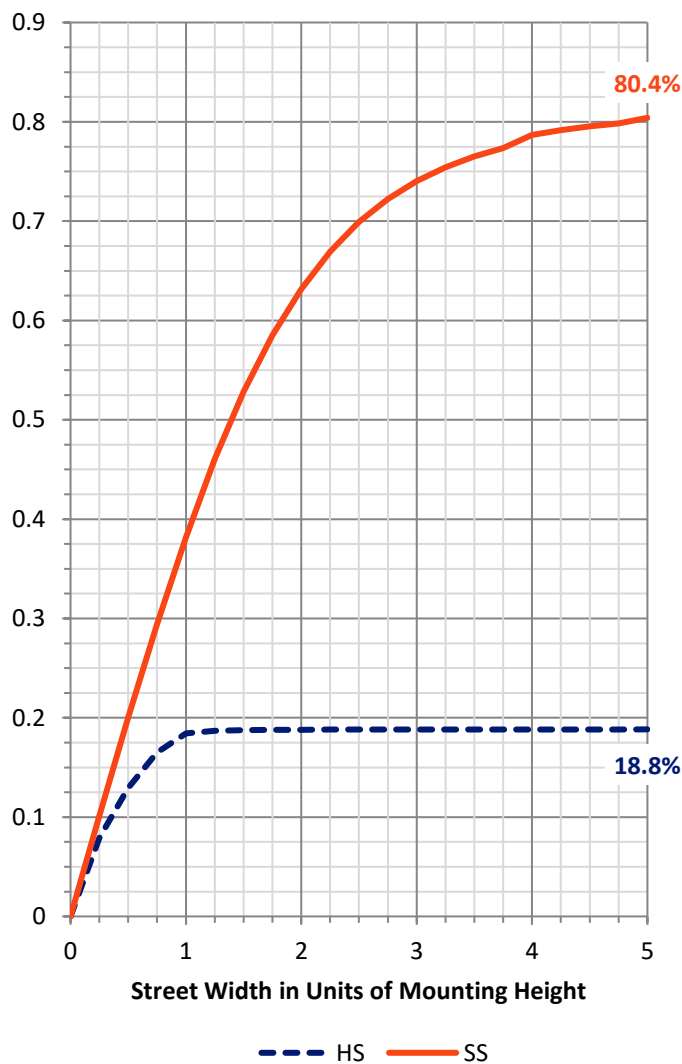
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1010.7	1.9	1012.7
	% Fixture	18.9	0.0	19.0
Street Side	Lumens	4312.2	12.1	4324.4
	% Fixture	80.8	0.2	81.0
Total	Lumens	5323.0	14.1	5337.0
	% Fixture	99.7	0.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	1.4
10°-20°	195.9	3.7
20°-30°	336.0	6.3
30°-40°	568.1	10.6
40°-50°	758.0	14.2
50°-60°	962.5	18.0
60°-70°	1347.8	25.3
70°-80°	976.2	18.3
80°-90°	104.0	1.9
90°-100°	11.7	0.2
100°-110°	1.2	0.0
110°-120°	0.5	0.0
120°-130°	0.3	0.0
130°-140°	0.1	0.0
140°-150°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	5323.0	99.7
0°-180°	5337.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691646

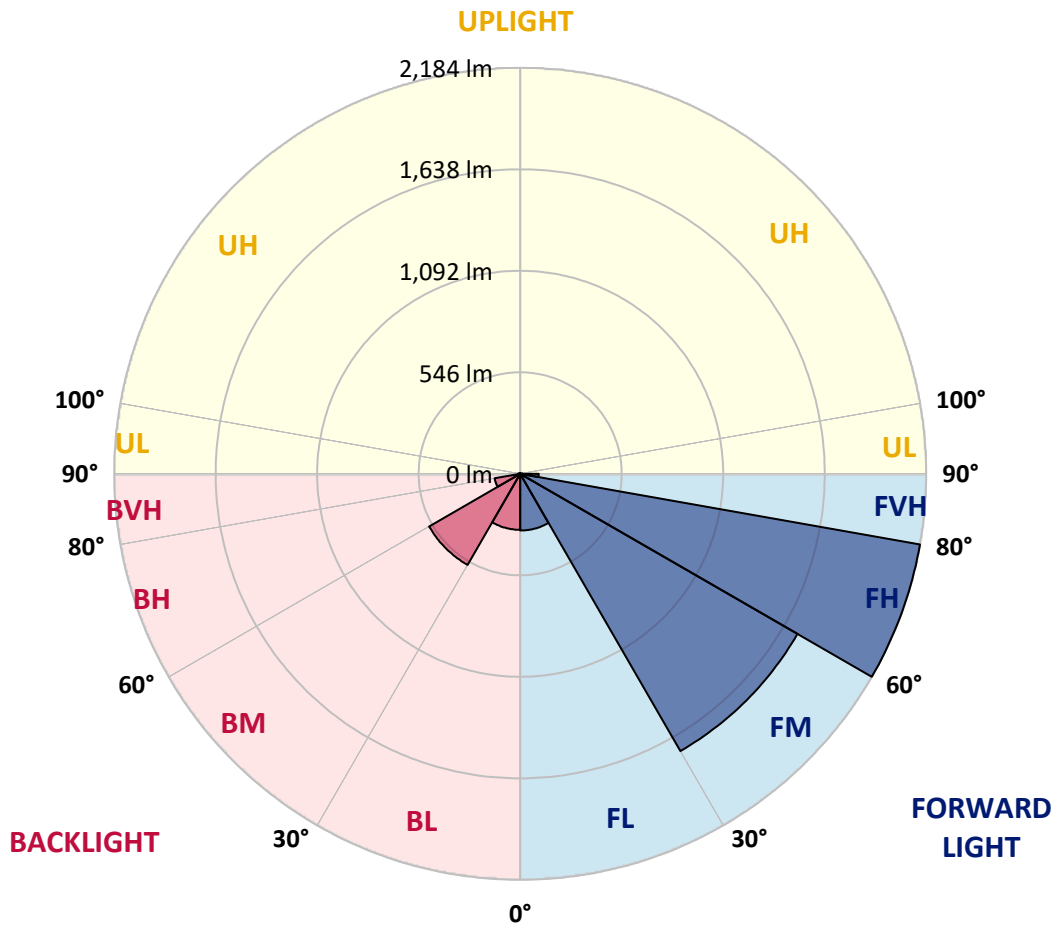
CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-U0-DS-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.0	5.7			
FM (30°-60°)	1722.6	32.3			
FH (60°-80°)	2184.5	40.9			G2/5000
FVH (80°-90°)	100.1	1.9			G2/225
BL (0°-30°)	301.3	5.6	B1/500		
BM (30°-60°)	566.0	10.6	B1/1000		
BH (60°-80°)	139.6	2.6	B1/500		G1/500
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	11.7	0.2		U2/50	
UH (100°-180°)	2.4	0.0		U1/10	

BUG Rating: B1-U2-G2

Type IV Short





REPORT NUMBER: P691646

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8
2.5°	811.4	814.1	814.1	814.1	816.7	814.1	814.1	814.1	814.1	816.7	816.7
5°	790.1	790.1	790.1	792.7	792.7	790.1	787.4	790.1	790.1	792.7	792.7
7.5°	763.4	763.4	763.4	766.0	763.4	758.0	752.7	755.4	752.7	755.4	758.0
10°	731.3	734.0	734.0	731.3	728.7	720.7	712.7	715.3	712.7	715.3	715.3
12.5°	710.0	712.7	712.7	710.0	702.0	696.6	691.3	686.0	683.3	688.6	686.0
15°	699.3	702.0	702.0	699.3	694.0	688.6	678.0	675.3	669.9	667.3	669.9
17.5°	696.6	696.6	696.6	694.0	688.6	680.6	675.3	669.9	667.3	667.3	664.6
20°	699.3	704.6	702.0	699.3	694.0	688.6	680.6	672.6	672.6	672.6	669.9
22.5°	720.7	720.7	718.0	718.0	712.7	704.6	696.6	691.3	686.0	686.0	686.0
25°	742.0	744.7	744.7	742.0	734.0	723.3	720.7	712.7	710.0	707.3	704.6
27.5°	776.7	774.0	776.7	776.7	766.0	760.7	752.7	747.3	744.7	739.3	736.7
30°	816.7	816.7	816.7	816.7	808.7	798.1	792.7	784.7	776.7	776.7	771.4
32.5°	870.1	872.8	872.8	870.1	862.1	851.4	846.1	835.4	832.8	827.4	822.1
35°	944.9	944.9	944.9	939.5	928.8	920.8	915.5	907.5	904.8	896.8	883.5
37.5°	1027.6	1027.6	1032.9	1027.6	1016.9	1006.3	998.2	992.9	984.9	979.6	971.6
40°	1123.7	1123.7	1126.4	1118.4	1107.7	1102.3	1094.3	1083.7	1078.3	1075.6	1059.6
42.5°	1235.8	1241.1	1241.1	1233.1	1225.1	1217.1	1206.4	1198.4	1193.1	1182.4	1161.1
45°	1371.9	1369.3	1374.6	1366.6	1361.2	1358.6	1342.6	1323.9	1326.5	1302.5	1278.5
47.5°	1532.1	1534.7	1532.1	1524.1	1518.7	1516.1	1500.0	1476.0	1465.3	1446.7	1401.3
50°	1694.9	1697.6	1694.9	1689.5	1694.9	1678.9	1660.2	1638.8	1636.2	1612.1	1542.7
52.5°	1873.7	1865.7	1863.0	1860.4	1855.0	1847.0	1828.3	1804.3	1807.0	1780.3	1670.9
55°	2052.5	2044.5	2031.2	2025.8	2020.5	2007.2	1991.2	1983.1	1980.5	1953.8	1807.0
57.5°	2223.4	2210.0	2191.3	2188.7	2180.7	2162.0	2154.0	2140.6	2140.6	2111.3	1905.7
60°	2386.2	2370.2	2348.8	2338.1	2324.8	2308.8	2306.1	2298.1	2300.8	2284.8	2012.5
62.5°	2535.6	2522.3	2495.6	2479.6	2458.2	2444.9	2447.6	2442.2	2452.9	2442.2	2105.9
65°	2717.1	2701.1	2669.1	2634.4	2605.0	2583.7	2575.7	2591.7	2637.1	2647.8	2231.4
67.5°	2831.9	2818.6	2770.5	2727.8	2687.8	2658.4	2666.4	2661.1	2685.1	2727.8	2252.7
70°	2615.7	2610.4	2562.3	2535.6	2506.3	2476.9	2479.6	2471.6	2490.3	2501.0	2065.9
72.5°	2282.1	2308.8	2247.4	2244.7	2226.0	2228.7	2199.3	2220.7	2207.3	2207.3	1828.3
75°	1908.4	1852.4	1833.7	1879.0	1852.4	1855.0	1849.7	1873.7	1871.0	1873.7	1590.8
77.5°	1251.8	1262.5	1238.5	1286.5	1310.5	1350.6	1369.3	1433.3	1409.3	1403.9	1259.8
80°	560.5	573.9	576.5	621.9	651.3	691.3	678.0	723.3	694.0	645.9	616.6
82.5°	125.4	125.4	141.5	181.5	192.2	200.2	200.2	208.2	165.5	101.4	82.7
85°	85.4	82.7	112.1	152.1	160.1	154.8	149.5	138.8	96.1	29.4	24.0
87.5°	56.1	58.7	90.7	125.4	130.8	122.8	114.8	104.1	69.4	8.0	5.3
90°	37.4	42.7	69.4	96.1	96.1	90.7	82.7	69.4	42.7	2.7	2.7
92.5°	18.7	21.4	34.7	42.7	40.0	34.7	32.0	26.7	16.0	2.7	2.7
95°	10.7	10.7	16.0	16.0	16.0	13.3	13.3	10.7	5.3	2.7	2.7
97.5°	8.0	8.0	10.7	10.7	8.0	8.0	8.0	5.3	2.7	2.7	2.7
100°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	2.7	2.7	2.7	2.7
102.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
105°	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P691646

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.7
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.7	2.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.7	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.7	2.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.0	2.7	2.7
175°	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7
177.5°	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.7	2.7	2.7	2.7
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P691646

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8
2.5°	819.4	822.1	824.8	830.1	830.1	838.1	840.8	843.4	846.1	846.1
5°	798.1	800.7	808.7	814.1	822.1	827.4	835.4	838.1	840.8	843.4
7.5°	758.0	763.4	771.4	774.0	784.7	792.7	800.7	808.7	811.4	816.7
10°	718.0	720.7	723.3	731.3	736.7	747.3	758.0	763.4	768.7	768.7
12.5°	688.6	691.3	694.0	696.6	704.6	710.0	720.7	726.0	728.7	734.0
15°	669.9	669.9	675.3	675.3	680.6	688.6	694.0	702.0	704.6	710.0
17.5°	664.6	664.6	667.3	669.9	675.3	678.0	683.3	691.3	694.0	696.6
20°	667.3	669.9	669.9	672.6	678.0	680.6	686.0	688.6	691.3	694.0
22.5°	680.6	678.0	680.6	680.6	683.3	688.6	694.0	699.3	702.0	702.0
25°	699.3	696.6	696.6	702.0	704.6	707.3	715.3	718.0	720.7	720.7
27.5°	731.3	728.7	731.3	731.3	734.0	734.0	742.0	742.0	744.7	747.3
30°	763.4	755.4	755.4	755.4	758.0	763.4	766.0	771.4	774.0	774.0
32.5°	811.4	795.4	792.7	795.4	795.4	798.1	806.1	803.4	808.7	806.1
35°	872.8	856.8	851.4	851.4	851.4	851.4	859.5	854.1	859.5	856.8
37.5°	947.5	926.2	923.5	923.5	918.2	920.8	923.5	918.2	915.5	918.2
40°	1027.6	990.2	987.6	990.2	990.2	990.2	990.2	987.6	984.9	987.6
42.5°	990.2	840.8	859.5	886.1	912.8	944.9	952.9	974.2	976.9	976.9
45°	864.8	485.8	512.5	552.5	568.5	579.2	608.6	653.9	667.3	669.9
47.5°	763.4	162.8	173.5	189.5	216.2	229.5	232.2	264.2	277.6	250.9
50°	755.4	37.4	26.7	26.7	29.4	24.0	24.0	26.7	26.7	26.7
52.5°	824.8	34.7	24.0	21.4	21.4	21.4	18.7	21.4	21.4	21.4
55°	896.8	34.7	24.0	21.4	21.4	21.4	18.7	18.7	18.7	18.7
57.5°	955.5	34.7	24.0	21.4	21.4	18.7	16.0	16.0	16.0	16.0
60°	1024.9	34.7	24.0	21.4	21.4	16.0	13.3	13.3	13.3	13.3
62.5°	1083.7	37.4	24.0	21.4	18.7	13.3	13.3	13.3	13.3	13.3
65°	1169.1	37.4	24.0	18.7	13.3	10.7	10.7	10.7	10.7	10.7
67.5°	1209.1	37.4	21.4	16.0	10.7	8.0	8.0	8.0	8.0	8.0
70°	1089.0	29.4	16.0	10.7	8.0	8.0	8.0	8.0	8.0	8.0
72.5°	931.5	21.4	10.7	8.0	5.3	5.3	5.3	5.3	5.3	2.7
75°	742.0	13.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	520.5	10.7	5.3	2.7	2.7	0.0	0.0	0.0	0.0	0.0
80°	216.2	8.0	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.0	5.3	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
90°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P691646
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.7	2.7	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

(END OF REPORT)