

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: P691580

Luminaire Tested: **CRTK2-C018-5TLD-U-T2-7050-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-2)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C018-5TLD-U-T2-7050-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7224 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.08')
IES Classification: Type II - Short
BUG Rating: B1 - U3 - G2

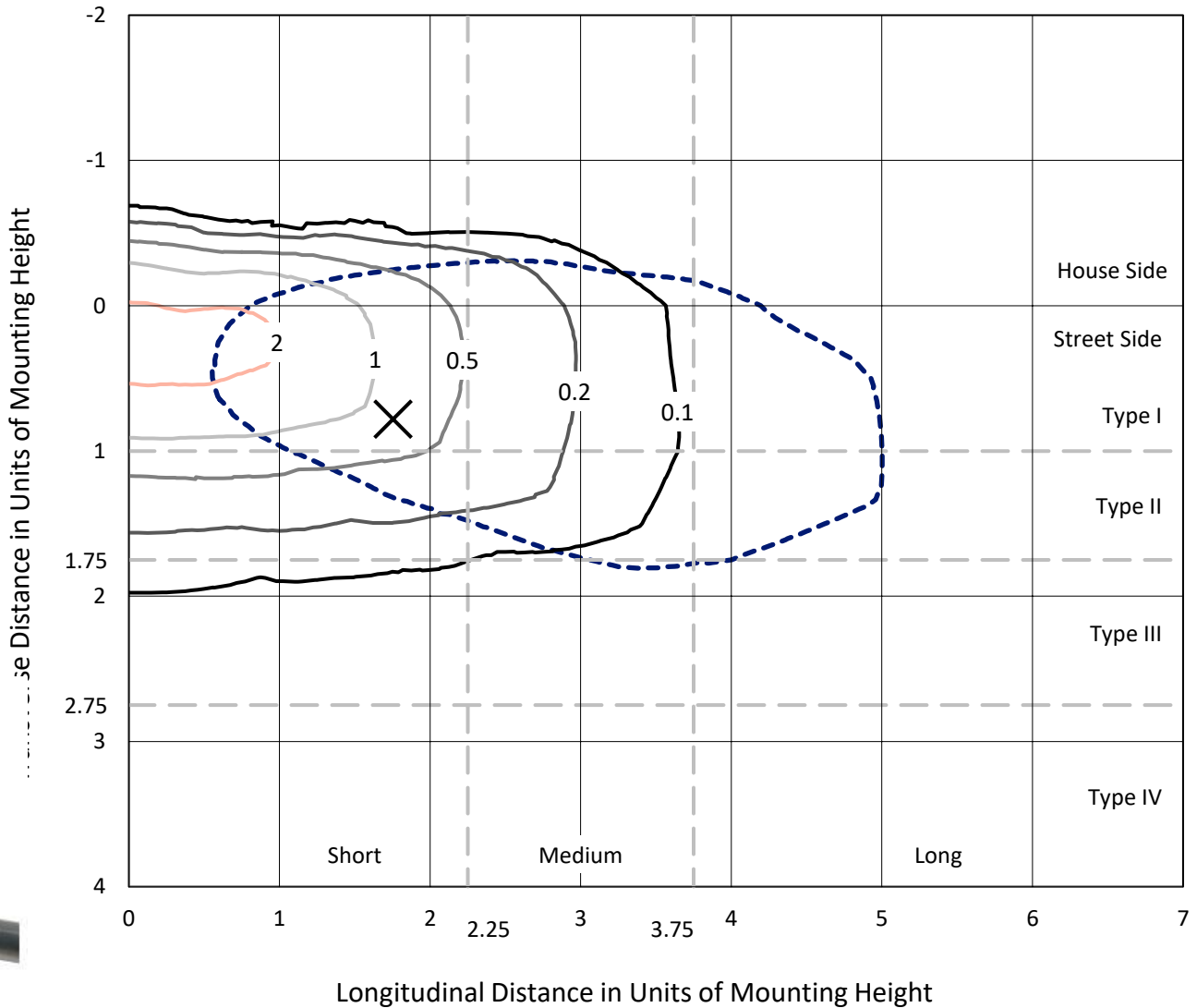
Input Watts (W): 53.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P691580
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

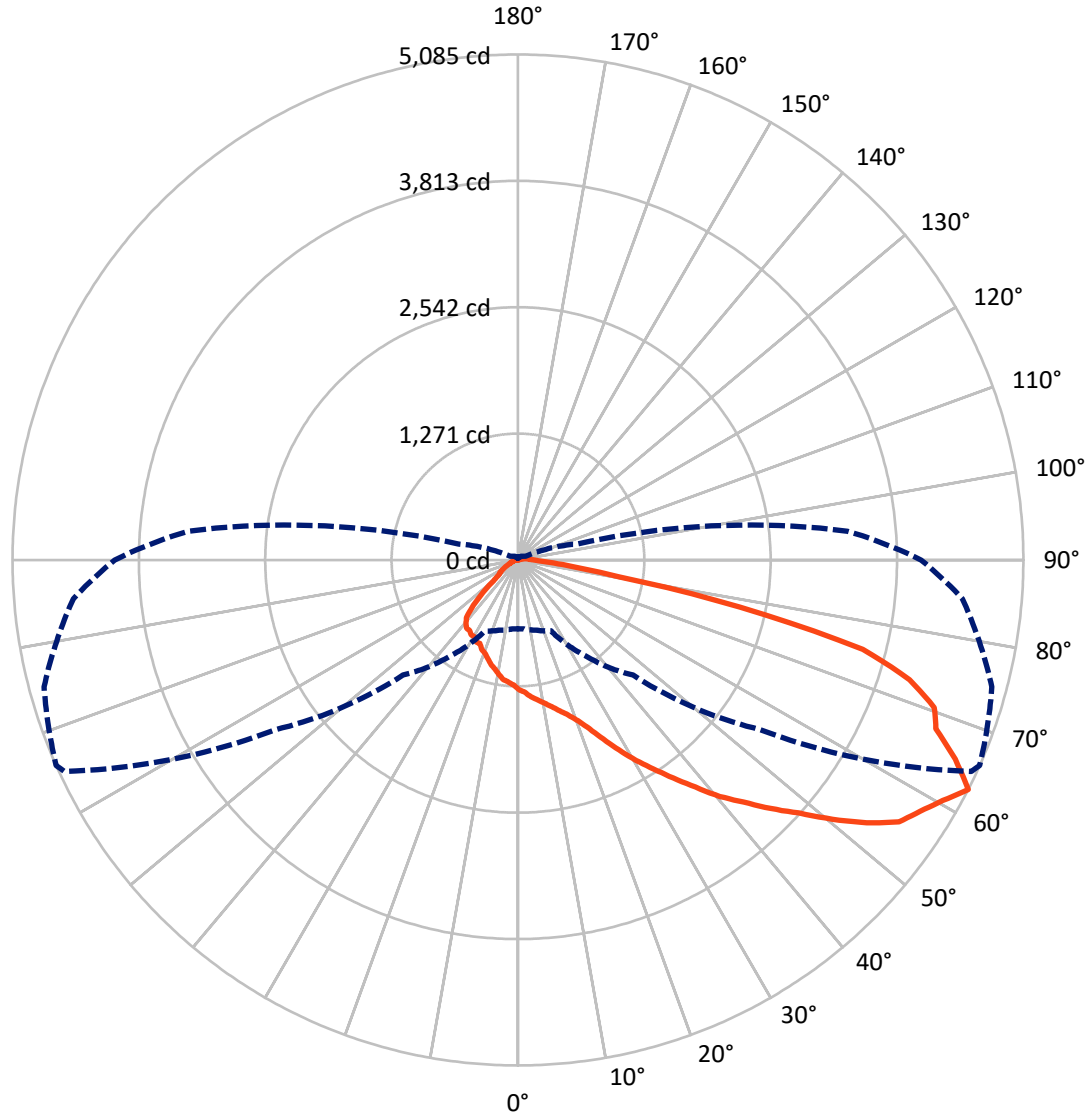
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

REPORT NUMBER: P691580
CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-HSS-CRTK2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P691580

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-HSS-CRTK2

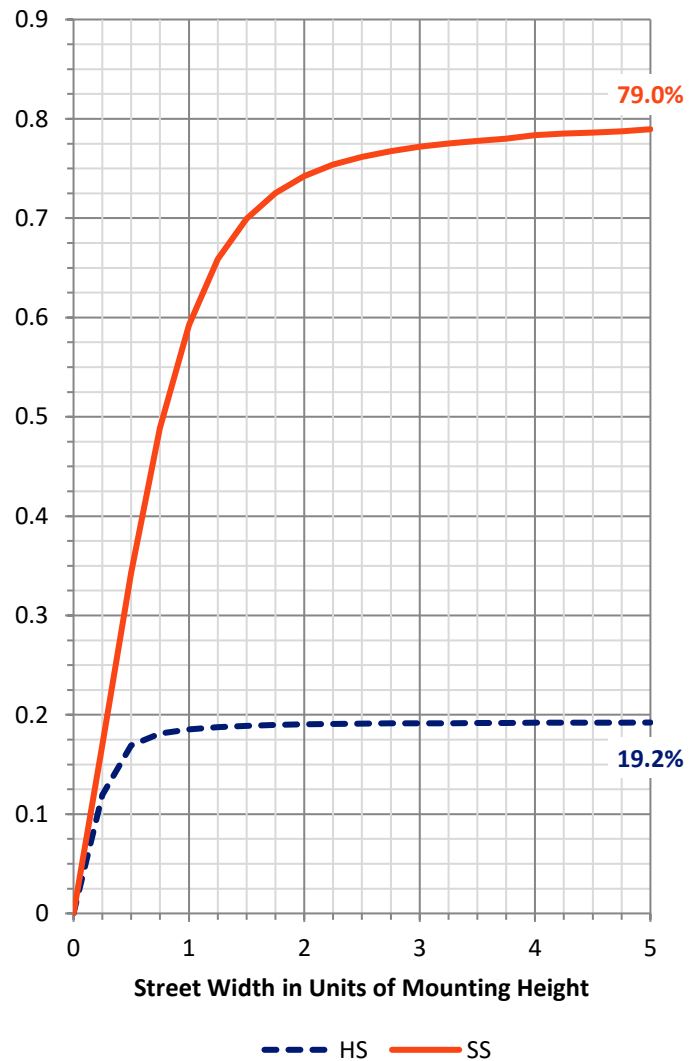
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1408.4	19.9	1428.4
	% Fixture	19.5	0.3	19.8
Street Side	Lumens	5740.6	55.1	5795.7
	% Fixture	79.5	0.8	80.2
Total	Lumens	7149.1	75.0	7224.0
	% Fixture	99.0	1.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.7
10°-20°	363.5	5.0
20°-30°	611.6	8.5
30°-40°	909.5	12.6
40°-50°	1203.4	16.7
50°-60°	1401.2	19.4
60°-70°	1398.8	19.4
70°-80°	938.7	13.0
80°-90°	198.3	2.7
90°-100°	60.4	0.8
100°-110°	10.5	0.1
110°-120°	0.8	0.0
120°-130°	0.9	0.0
130°-140°	0.9	0.0
140°-150°	0.7	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	7149.1	99.0
0°-180°	7224.0	100.0



REPORT NUMBER: P691580

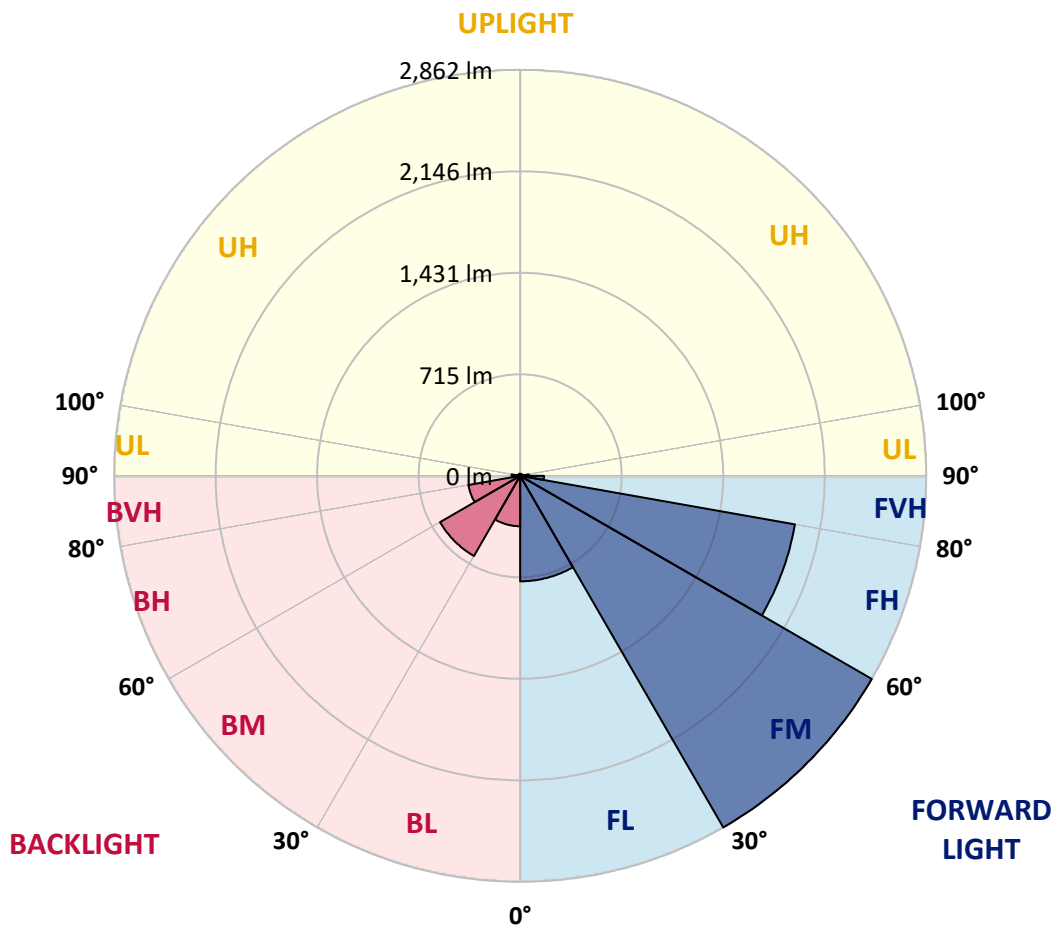
CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.7	10.3			
FM (30°-60°)	2861.9	39.6			
FH (60°-80°)	1967.1	27.2			G2/5000
FVH (80°-90°)	167.8	2.3			G2/225
BL (0°-30°)	355.4	4.9	B1/500		
BM (30°-60°)	652.2	9.0	B1/1000		
BH (60°-80°)	370.4	5.1	B1/500		G1/500
BVH (80°-90°)	30.5	0.4			G1/100
UL (90°-100°)	60.4	0.8		U3/500	
UH (100°-180°)	14.6	0.2		U2/50	

BUG Rating: B1-U3-G2

Type II Short





REPORT NUMBER: P691580

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2
2.5°	1393.2	1385.2	1387.9	1374.6	1361.2	1353.2	1345.2	1331.8	1331.8	1321.2	1307.8
5°	1492.0	1494.7	1492.0	1476.0	1460.0	1435.9	1406.6	1382.6	1382.6	1358.5	1326.5
7.5°	1558.7	1556.0	1556.0	1537.4	1526.7	1513.3	1478.6	1425.3	1422.6	1390.6	1350.5
10°	1585.4	1588.1	1598.7	1572.1	1561.4	1542.7	1524.0	1470.6	1465.3	1411.9	1347.9
12.5°	1644.1	1646.8	1641.5	1620.1	1606.8	1593.4	1564.1	1518.7	1513.3	1454.6	1366.5
15°	1713.5	1713.5	1705.5	1684.2	1676.2	1657.5	1622.8	1580.1	1574.7	1508.0	1401.2
17.5°	1750.9	1756.2	1756.2	1726.9	1729.5	1721.5	1702.8	1646.8	1638.8	1577.4	1449.3
20°	1769.6	1772.2	1777.6	1777.6	1774.9	1772.2	1782.9	1732.2	1726.9	1654.8	1505.3
22.5°	1822.9	1828.3	1841.6	1833.6	1841.6	1852.3	1855.0	1852.3	1844.3	1766.9	1598.7
25°	1847.0	1863.0	1881.7	1905.7	1929.7	1945.7	1983.1	2001.8	1996.4	1921.7	1745.5
27.5°	1820.3	1836.3	1903.0	1948.4	2023.1	2068.5	2137.9	2167.3	2164.6	2103.2	1897.7
30°	1865.7	1871.0	1900.3	1964.4	2060.5	2185.9	2282.0	2327.4	2338.1	2282.0	2057.8
32.5°	1798.9	1817.6	1900.3	2020.5	2164.6	2298.0	2391.5	2492.9	2506.2	2482.2	2268.7
35°	1793.6	1806.9	1852.3	1983.1	2167.3	2415.5	2543.6	2682.4	2693.1	2701.1	2482.2
37.5°	1718.9	1737.5	1828.3	1993.8	2247.3	2492.9	2671.7	2871.9	2898.6	2930.6	2661.0
40°	1636.1	1649.5	1726.9	1903.0	2228.6	2583.6	2794.5	3101.4	3128.1	3168.1	2898.6
42.5°	1513.3	1542.7	1673.5	1863.0	2218.0	2610.3	2917.2	3304.3	3328.3	3384.3	3098.7
45°	1403.9	1417.3	1518.7	1726.9	2132.6	2658.4	3021.3	3541.8	3565.8	3592.5	3256.2
47.5°	1318.5	1334.5	1430.6	1617.4	2047.1	2647.7	3117.4	3776.7	3803.4	3864.8	3451.1
50°	1046.3	1086.3	1329.2	1510.7	1905.7	2626.3	3200.2	4038.2	4099.6	4123.7	3653.9
52.5°	899.5	912.8	1038.3	1414.6	1766.9	2548.9	3272.2	4323.8	4393.2	4347.8	3926.1
55°	838.1	846.1	907.5	1225.1	1641.5	2391.5	3330.9	4598.7	4649.5	4505.3	4126.3
57.5°	792.7	806.0	832.7	992.9	1494.7	2127.2	3333.6	4750.9	4769.6	4636.1	4222.4
60°	734.0	739.3	795.4	864.8	1329.2	1852.3	3242.9	4828.3	4911.0	4788.2	4417.2
62.5°	691.3	696.6	731.3	787.4	1171.7	1636.1	2976.0	5033.8	5084.5	4935.0	4489.3
65°	637.9	645.9	675.3	731.3	1062.3	1505.3	2842.5	4980.4	4833.6	4900.3	4572.0
67.5°	581.8	587.2	619.2	661.9	904.8	1379.9	2511.6	4641.4	4534.7	4726.9	4350.5
70°	523.1	528.5	557.8	587.2	744.7	1225.1	2092.5	4353.2	4443.9	4454.6	4142.3
72.5°	461.7	467.1	493.8	517.8	616.5	1030.2	1662.8	4064.9	4121.0	3958.2	3659.2
75°	400.4	403.0	424.4	448.4	512.5	830.1	1190.4	3371.0	3584.5	3782.0	3157.5
77.5°	323.0	328.3	349.6	357.7	411.0	669.9	771.3	2004.4	2284.7	3309.6	2834.5
80°	237.5	240.2	261.6	258.9	306.9	488.4	485.8	952.8	1024.9	2044.5	2081.8
82.5°	157.5	162.8	181.5	176.2	208.2	296.3	304.3	512.5	547.2	792.7	912.8
85°	125.4	128.1	138.8	128.1	138.8	149.5	168.1	309.6	314.9	469.7	467.1
87.5°	101.4	104.1	114.8	106.8	109.4	114.8	133.5	197.5	202.8	296.3	306.9
90°	80.1	82.7	96.1	88.1	88.1	96.1	112.1	146.8	154.8	232.2	250.9
92.5°	53.4	53.4	61.4	58.7	58.7	69.4	98.8	109.4	117.4	216.2	226.9
95°	40.0	40.0	42.7	42.7	42.7	50.7	74.7	104.1	114.8	210.9	205.5
97.5°	26.7	26.7	29.4	29.4	29.4	32.0	42.7	85.4	96.1	170.8	168.1
100°	18.7	18.7	18.7	16.0	16.0	16.0	24.0	56.0	64.1	109.4	109.4
102.5°	13.3	10.7	10.7	10.7	8.0	8.0	10.7	26.7	29.4	58.7	56.0
105°	2.7	2.7	5.3	5.3	5.3	2.7	2.7	10.7	10.7	24.0	24.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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: P691580
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	2.7
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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	2.7
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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	2.7
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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	0.0	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	2.7
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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



REPORT NUMBER: P691580

CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2	1305.2
2.5°	1299.8	1291.8	1273.1	1257.1	1243.8	1230.4	1209.1	1201.1	1195.7	1203.7	1203.7
5°	1307.8	1286.5	1254.4	1227.8	1203.7	1174.4	1142.3	1123.7	1107.6	1115.7	1115.7
7.5°	1321.2	1291.8	1251.8	1206.4	1145.0	1094.3	1054.3	1030.2	1016.9	1024.9	1030.2
10°	1313.2	1281.1	1227.8	1158.4	1086.3	1032.9	982.2	944.8	931.5	926.2	931.5
12.5°	1321.2	1283.8	1193.1	1110.3	1040.9	955.5	894.1	854.1	838.1	838.1	838.1
15°	1347.9	1291.8	1171.7	1075.6	968.9	886.1	822.1	779.4	774.0	755.3	755.3
17.5°	1385.2	1299.8	1163.7	1022.2	904.8	819.4	744.7	702.0	688.6	691.3	691.3
20°	1422.6	1315.8	1147.7	976.9	846.1	744.7	667.3	627.2	595.2	584.5	589.9
22.5°	1486.6	1361.2	1134.3	952.8	779.4	683.3	597.9	531.1	477.8	461.7	453.7
25°	1580.1	1433.3	1153.0	896.8	739.3	613.9	512.5	419.0	355.0	339.0	336.3
27.5°	1750.9	1545.4	1174.4	896.8	675.3	552.5	408.4	309.6	258.9	242.9	248.2
30°	1911.0	1697.5	1235.8	848.8	648.6	443.1	304.3	232.2	186.8	168.1	173.5
32.5°	2044.5	1841.6	1321.2	838.1	571.2	328.3	221.5	162.8	130.8	120.1	122.8
35°	2236.6	1964.4	1387.9	800.7	469.7	240.2	154.8	114.8	101.4	96.1	96.1
37.5°	2420.8	2113.9	1454.6	792.7	347.0	176.2	104.1	93.4	90.7	82.7	82.7
40°	2597.0	2266.0	1484.0	747.3	245.6	114.8	88.1	85.4	82.7	74.7	74.7
42.5°	2813.2	2412.8	1510.7	688.6	170.8	85.4	77.4	80.1	77.4	69.4	66.7
45°	2978.6	2511.6	1518.7	539.1	109.4	80.1	72.1	74.7	72.1	64.1	64.1
47.5°	3117.4	2645.0	1486.6	368.3	90.7	74.7	66.7	69.4	66.7	61.4	58.7
50°	3258.9	2767.8	1457.3	197.5	85.4	72.1	64.1	58.7	61.4	56.0	53.4
52.5°	3451.1	2858.5	1379.9	120.1	80.1	66.7	58.7	53.4	53.4	48.0	50.7
55°	3715.3	3082.7	1235.8	112.1	77.4	64.1	56.0	48.0	48.0	42.7	42.7
57.5°	3832.7	3170.8	1003.6	101.4	74.7	64.1	50.7	42.7	37.4	34.7	32.0
60°	3976.9	3301.6	790.0	93.4	69.4	61.4	45.4	37.4	29.4	26.7	26.7
62.5°	4056.9	3328.3	616.5	85.4	66.7	53.4	40.0	29.4	24.0	18.7	18.7
65°	4097.0	3309.6	411.0	77.4	61.4	50.7	34.7	24.0	16.0	13.3	13.3
67.5°	3944.8	3210.8	237.5	72.1	58.7	45.4	29.4	18.7	13.3	10.7	8.0
70°	3685.9	2922.6	149.5	64.1	56.0	40.0	26.7	16.0	10.7	8.0	5.3
72.5°	3381.7	2386.1	109.4	58.7	53.4	34.7	21.4	13.3	8.0	5.3	5.3
75°	3088.1	2079.2	93.4	50.7	45.4	29.4	18.7	10.7	8.0	5.3	2.7
77.5°	2210.0	1417.3	82.7	45.4	40.0	24.0	13.3	10.7	5.3	2.7	2.7
80°	1569.4	832.7	74.7	37.4	32.0	18.7	13.3	8.0	5.3	2.7	2.7
82.5°	752.7	432.4	72.1	32.0	24.0	16.0	10.7	8.0	5.3	2.7	2.7
85°	341.6	184.2	53.4	29.4	21.4	16.0	10.7	8.0	5.3	5.3	2.7
87.5°	208.2	96.1	42.7	24.0	16.0	13.3	8.0	5.3	5.3	5.3	5.3
90°	194.8	125.4	32.0	18.7	13.3	10.7	8.0	2.7	0.0	0.0	0.0
92.5°	186.8	144.1	24.0	13.3	8.0	8.0	2.7	0.0	0.0	0.0	0.0
95°	176.2	136.1	26.7	8.0	13.3	5.3	2.7	0.0	0.0	0.0	0.0
97.5°	138.8	106.8	29.4	8.0	66.7	5.3	2.7	0.0	0.0	0.0	0.0
100°	88.1	66.7	21.4	8.0	80.1	5.3	0.0	0.0	0.0	0.0	0.0
102.5°	50.7	37.4	10.7	8.0	24.0	2.7	0.0	0.0	0.0	0.0	0.0
105°	21.4	18.7	5.3	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
107.5°	5.3	5.3	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
110°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P691580
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T2-7050-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
115°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
117.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
120°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
122.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
125°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
127.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
130°	2.7	2.7	2.7	5.3	2.7	2.7	2.7	0.0	0.0	0.0	0.0
132.5°	2.7	2.7	2.7	5.3	2.7	2.7	2.7	0.0	0.0	0.0	0.0
135°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
137.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
140°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
142.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
145°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
147.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
150°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
155°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
157.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
160°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
162.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
165°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0
167.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
170°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
172.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
175°	0.0	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	2.7	2.7	2.7	2.7	2.7	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)