

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: P691639

Luminaire Tested: **CRTK2-C018-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691639
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-7040-U0-DS-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE V ROUND OPTIC AND U0 SHIELD WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5275 lumens
Efficiency: N/A
Efficacy: 98.2 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

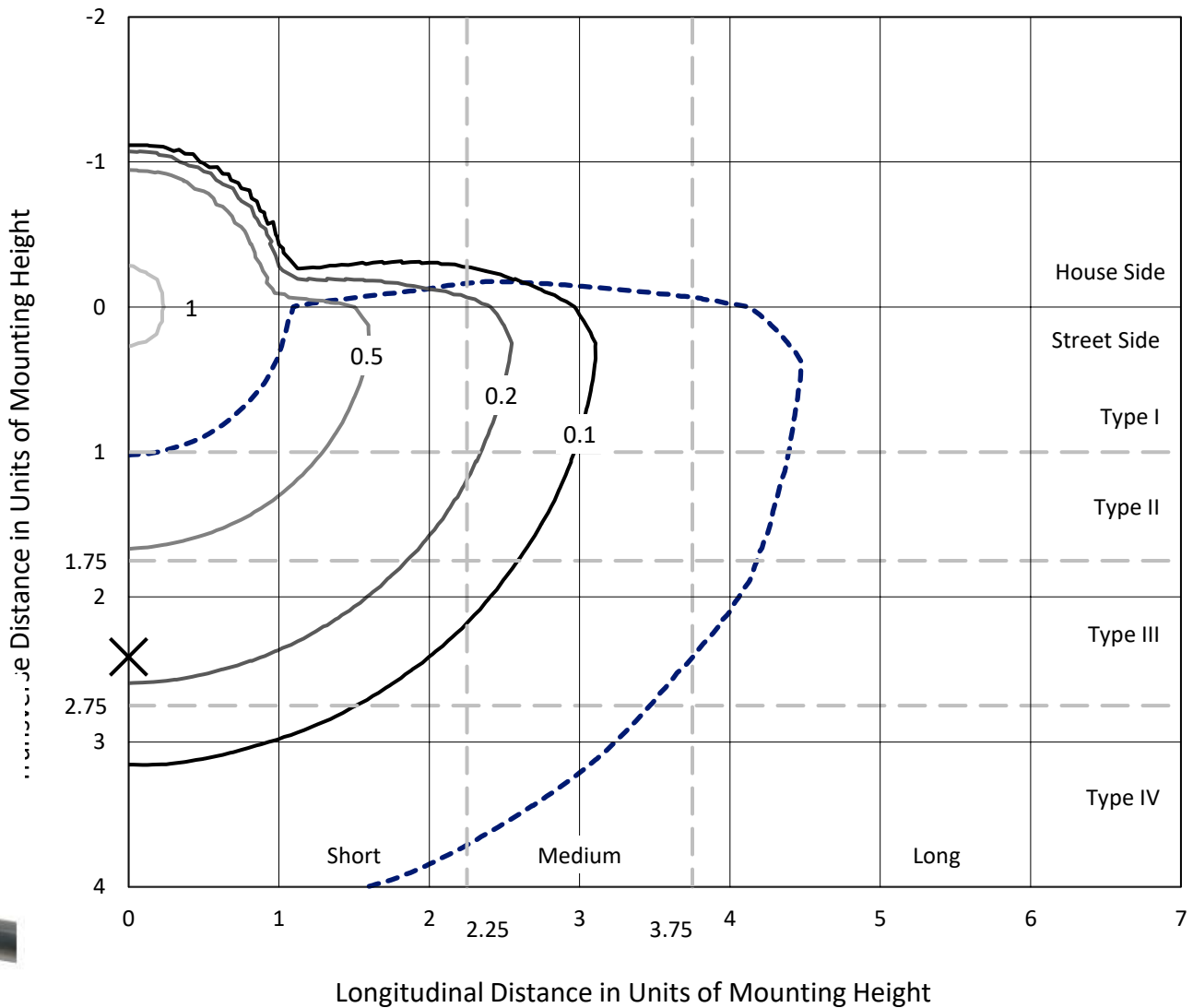


REPORT NUMBER: P691639

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

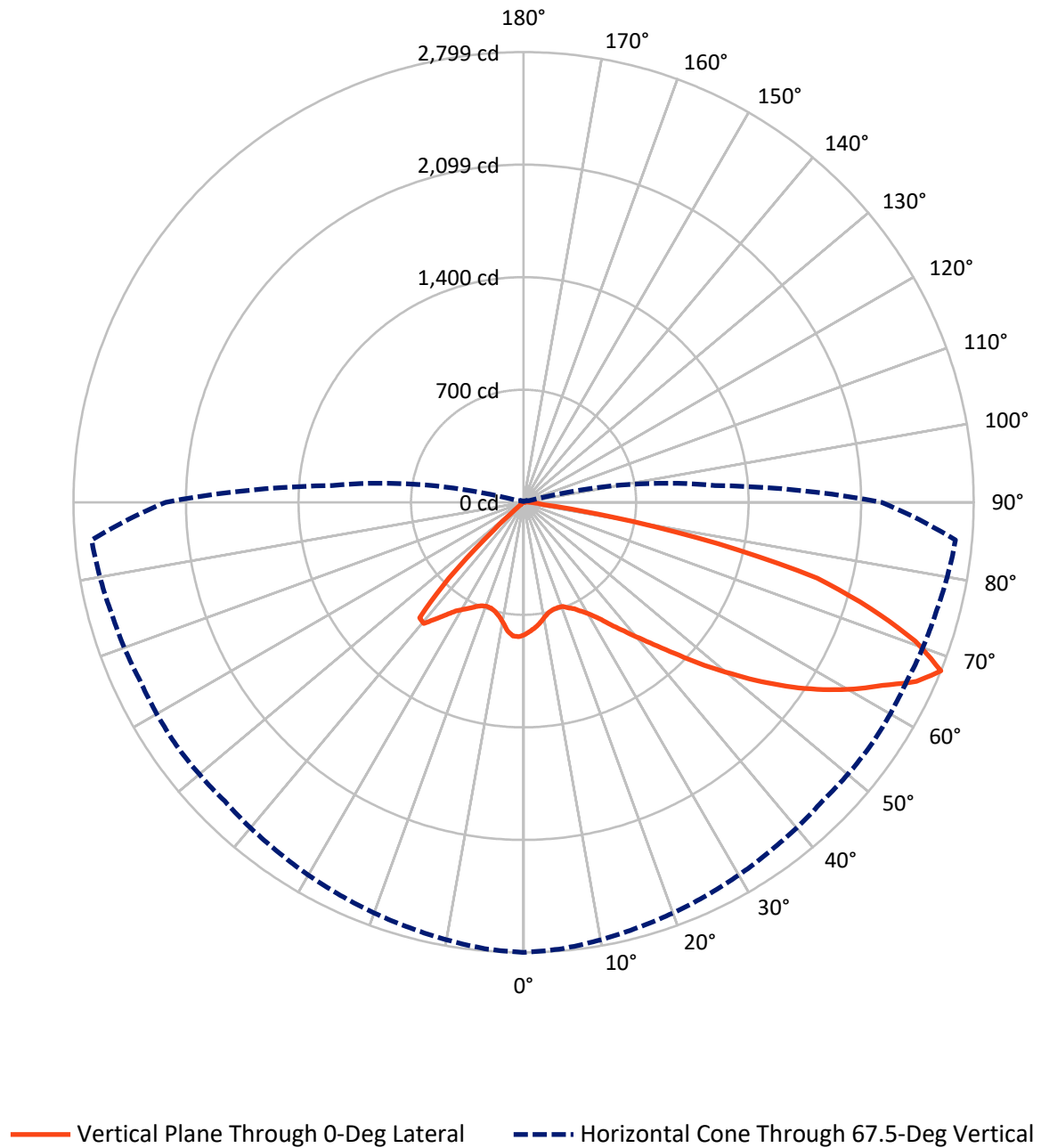


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P691639

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691639

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2

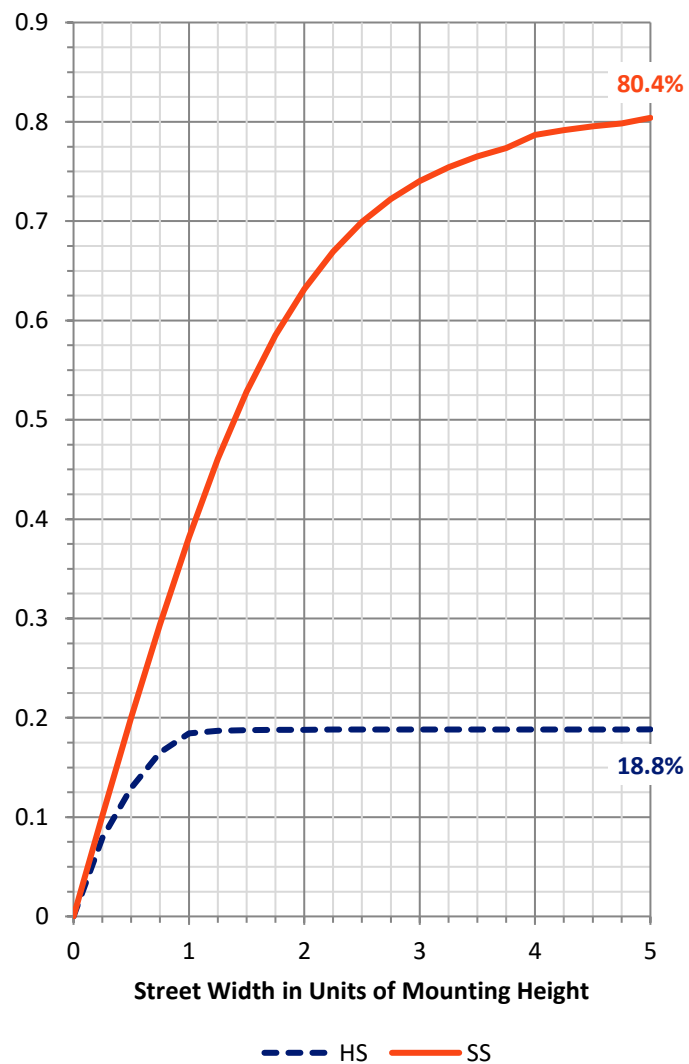
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	999.0	1.8	1000.8
	% Fixture	18.9	0.0	19.0
Street Side	Lumens	4262.2	12.0	4274.1
	% Fixture	80.8	0.2	81.0
Total	Lumens	5261.1	13.8	5275.0
	% Fixture	99.7	0.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.4
10°-20°	193.6	3.7
20°-30°	332.1	6.3
30°-40°	561.5	10.6
40°-50°	749.2	14.2
50°-60°	951.3	18.0
60°-70°	1332.2	25.3
70°-80°	964.8	18.3
80°-90°	102.8	1.9
90°-100°	11.5	0.2
100°-110°	1.2	0.0
110°-120°	0.4	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°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	5261.1	99.7
0°-180°	5275.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691639

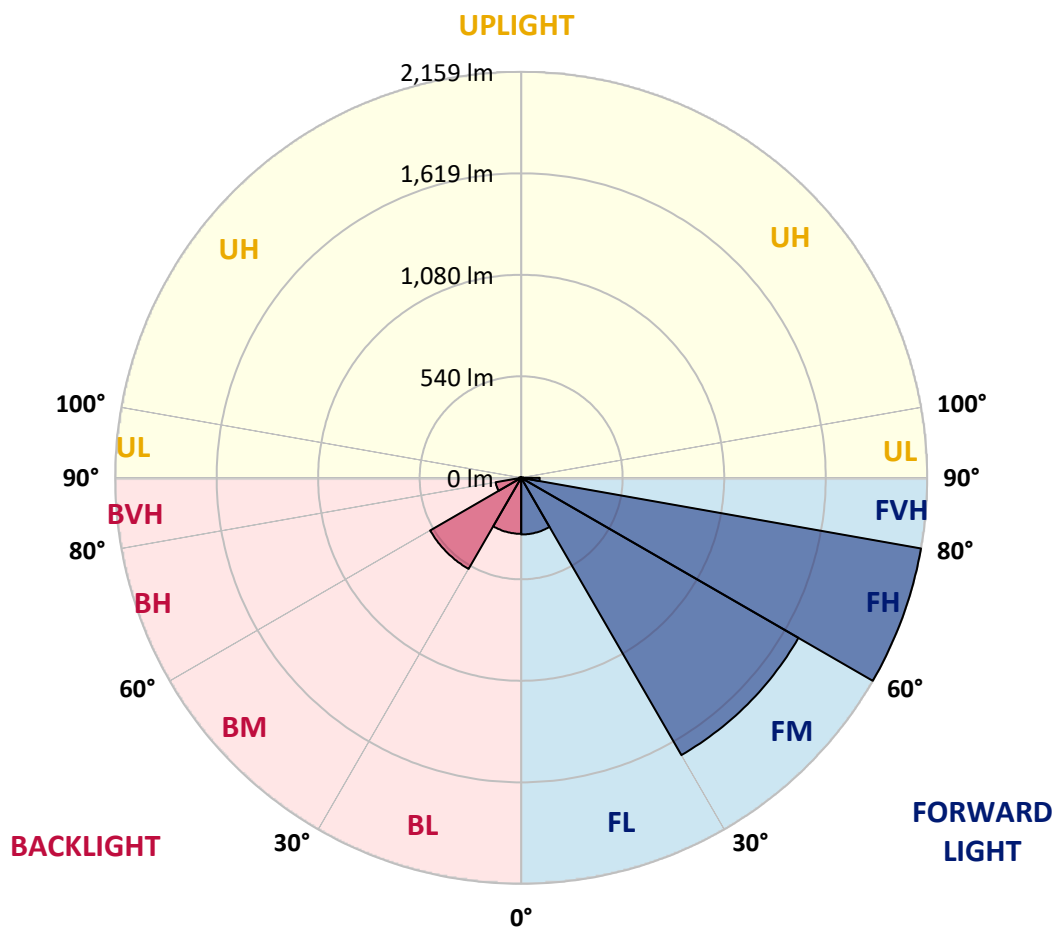
CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.5	5.7			
FM	(30°-60°)	1702.6	32.3			
FH	(60°-80°)	2159.1	40.9			G2/5000
FVH	(80°-90°)	99.0	1.9			G1/100
BL	(0°-30°)	297.8	5.6	B1/500		
BM	(30°-60°)	559.4	10.6	B1/1000		
BH	(60°-80°)	137.9	2.6	B1/500		G1/500
BVH	(80°-90°)	3.8	0.1			G0/10
UL	(90°-100°)	11.5	0.2		U2/50	
UH	(100°-180°)	2.3	0.0		U1/10	

BUG Rating: B1-U2-G2

Type IV Short



REPORT NUMBER: P691639

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1
2.5°	802.0	804.6	804.6	804.6	807.3	804.6	804.6	804.6	804.6	807.3	807.3
5°	780.9	780.9	780.9	783.5	783.5	780.9	778.2	780.9	780.9	783.5	783.5
7.5°	754.5	754.5	754.5	757.1	754.5	749.2	743.9	746.6	743.9	746.6	749.2
10°	722.8	725.5	725.5	722.8	720.2	712.3	704.4	707.0	704.4	707.0	707.0
12.5°	701.7	704.4	704.4	701.7	693.8	688.5	683.3	678.0	675.4	680.6	678.0
15°	691.2	693.8	693.8	691.2	685.9	680.6	670.1	667.4	662.2	659.5	662.2
17.5°	688.5	688.5	688.5	685.9	680.6	672.7	667.4	662.2	659.5	659.5	656.9
20°	691.2	696.5	693.8	691.2	685.9	680.6	672.7	664.8	664.8	664.8	662.2
22.5°	712.3	712.3	709.6	709.6	704.4	696.5	688.5	683.3	678.0	678.0	678.0
25°	733.4	736.0	736.0	733.4	725.5	714.9	712.3	704.4	701.7	699.1	696.5
27.5°	767.7	765.0	767.7	767.7	757.1	751.9	743.9	738.7	736.0	730.8	728.1
30°	807.3	807.3	807.3	807.3	799.3	788.8	783.5	775.6	767.7	767.7	762.4
32.5°	860.0	862.7	862.7	860.0	852.1	841.6	836.3	825.7	823.1	817.8	812.5
35°	933.9	933.9	933.9	928.6	918.1	910.1	904.9	897.0	894.3	886.4	873.2
37.5°	1015.7	1015.7	1020.9	1015.7	1005.1	994.6	986.6	981.4	973.5	968.2	960.3
40°	1110.6	1110.6	1113.3	1105.4	1094.8	1089.5	1081.6	1071.1	1065.8	1063.2	1047.3
42.5°	1221.4	1226.7	1226.7	1218.8	1210.9	1203.0	1192.4	1184.5	1179.2	1168.7	1147.6
45°	1356.0	1353.3	1358.6	1350.7	1345.4	1342.8	1327.0	1308.5	1311.1	1287.4	1263.6
47.5°	1514.3	1516.9	1514.3	1506.4	1501.1	1498.4	1482.6	1458.9	1448.3	1429.8	1385.0
50°	1675.2	1677.8	1675.2	1669.9	1675.2	1659.4	1640.9	1619.8	1617.2	1593.4	1524.8
52.5°	1851.9	1844.0	1841.4	1838.8	1833.5	1825.6	1807.1	1783.4	1786.0	1759.6	1651.4
55°	2028.7	2020.8	2007.6	2002.3	1997.0	1983.8	1968.0	1960.1	1957.5	1931.1	1786.0
57.5°	2197.5	2184.3	2165.9	2163.2	2155.3	2136.9	2128.9	2115.8	2115.8	2086.7	1883.6
60°	2358.5	2342.6	2321.5	2311.0	2297.8	2282.0	2279.3	2271.4	2274.0	2258.2	1989.1
62.5°	2506.2	2493.0	2466.6	2450.8	2429.7	2416.5	2419.1	2413.9	2424.4	2413.9	2081.5
65°	2685.6	2669.8	2638.1	2603.8	2574.8	2553.7	2545.8	2561.6	2606.4	2617.0	2205.4
67.5°	2799.0	2785.8	2738.3	2696.1	2656.6	2627.5	2635.5	2630.2	2653.9	2696.1	2226.6
70°	2585.3	2580.1	2532.6	2506.2	2477.2	2448.2	2450.8	2442.9	2461.3	2471.9	2041.9
72.5°	2255.6	2282.0	2221.3	2218.6	2200.2	2202.8	2173.8	2194.9	2181.7	2181.7	1807.1
75°	1886.2	1830.8	1812.4	1857.2	1830.8	1833.5	1828.2	1851.9	1849.3	1851.9	1572.3
77.5°	1237.3	1247.8	1224.1	1271.6	1295.3	1334.9	1353.3	1416.7	1392.9	1387.6	1245.2
80°	554.0	567.2	569.8	614.7	643.7	683.3	670.1	714.9	685.9	638.4	609.4
82.5°	124.0	124.0	139.8	179.4	189.9	197.9	197.9	205.8	163.6	100.2	81.8
85°	84.4	81.8	110.8	150.4	158.3	153.0	147.7	137.2	95.0	29.0	23.7
87.5°	55.4	58.0	89.7	124.0	129.3	121.4	113.4	102.9	68.6	7.9	5.3
90°	36.9	42.2	68.6	95.0	95.0	89.7	81.8	68.6	42.2	2.6	2.6
92.5°	18.5	21.1	34.3	42.2	39.6	34.3	31.7	26.4	15.8	2.6	2.6
95°	10.6	10.6	15.8	15.8	15.8	13.2	13.2	10.6	5.3	2.6	2.6
97.5°	7.9	7.9	10.6	10.6	7.9	7.9	7.9	5.3	2.6	2.6	2.6
100°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	2.6	2.6	2.6	2.6
102.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
105°	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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: P691639

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7040-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	2.6
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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	2.6
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	2.6
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	2.6	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	2.6
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.6
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	2.6	0.0	2.6	2.6
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.6	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.6	2.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	0.0	2.6	2.6
175°	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6
177.5°	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.6	2.6	2.6	2.6
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: P691639

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1
2.5°	809.9	812.5	815.2	820.4	820.4	828.4	831.0	833.6	836.3	836.3
5°	788.8	791.4	799.3	804.6	812.5	817.8	825.7	828.4	831.0	833.6
7.5°	749.2	754.5	762.4	765.0	775.6	783.5	791.4	799.3	802.0	807.3
10°	709.6	712.3	714.9	722.8	728.1	738.7	749.2	754.5	759.8	759.8
12.5°	680.6	683.3	685.9	688.5	696.5	701.7	712.3	717.6	720.2	725.5
15°	662.2	662.2	667.4	667.4	672.7	680.6	685.9	693.8	696.5	701.7
17.5°	656.9	656.9	659.5	662.2	667.4	670.1	675.4	683.3	685.9	688.5
20°	659.5	662.2	662.2	664.8	670.1	672.7	678.0	680.6	683.3	685.9
22.5°	672.7	670.1	672.7	672.7	675.4	680.6	685.9	691.2	693.8	693.8
25°	691.2	688.5	688.5	693.8	696.5	699.1	707.0	709.6	712.3	712.3
27.5°	722.8	720.2	722.8	722.8	725.5	725.5	733.4	733.4	736.0	738.7
30°	754.5	746.6	746.6	746.6	749.2	754.5	757.1	762.4	765.0	765.0
32.5°	802.0	786.2	783.5	786.2	786.2	788.8	796.7	794.1	799.3	796.7
35°	862.7	846.8	841.6	841.6	841.6	841.6	849.5	844.2	849.5	846.8
37.5°	936.5	915.4	912.8	912.8	907.5	910.1	912.8	907.5	904.9	907.5
40°	1015.7	978.7	976.1	978.7	978.7	978.7	978.7	976.1	973.5	976.1
42.5°	978.7	831.0	849.5	875.8	902.2	933.9	941.8	962.9	965.5	965.5
45°	854.7	480.1	506.5	546.1	561.9	572.5	601.5	646.3	659.5	662.2
47.5°	754.5	160.9	171.5	187.3	213.7	226.9	229.5	261.2	274.4	248.0
50°	746.6	36.9	26.4	26.4	29.0	23.7	23.7	26.4	26.4	26.4
52.5°	815.2	34.3	23.7	21.1	21.1	21.1	18.5	21.1	21.1	21.1
55°	886.4	34.3	23.7	21.1	21.1	21.1	18.5	18.5	18.5	18.5
57.5°	944.4	34.3	23.7	21.1	21.1	18.5	15.8	15.8	15.8	15.8
60°	1013.0	34.3	23.7	21.1	21.1	15.8	13.2	13.2	13.2	13.2
62.5°	1071.1	36.9	23.7	21.1	18.5	13.2	13.2	13.2	13.2	13.2
65°	1155.5	36.9	23.7	18.5	13.2	10.6	10.6	10.6	10.6	10.6
67.5°	1195.1	36.9	21.1	15.8	10.6	7.9	7.9	7.9	7.9	7.9
70°	1076.3	29.0	15.8	10.6	7.9	7.9	7.9	7.9	7.9	7.9
72.5°	920.7	21.1	10.6	7.9	5.3	5.3	5.3	5.3	5.3	2.6
75°	733.4	13.2	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	514.4	10.6	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0
80°	213.7	7.9	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.7	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
90°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P691639

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7040-U0-DS-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.6	2.6	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°	2.6	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	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.6	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°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.6	2.6	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)