

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: P691420

Luminaire Tested: **CRTK2-C016-5TLD-U-T3-7040-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-10)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T3-7040-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE III OPTIC AND HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5749.1 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.08')
IES Classification: Type III - Medium
BUG Rating: B1 - U2 - G2

Input Watts (W): 42.8
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

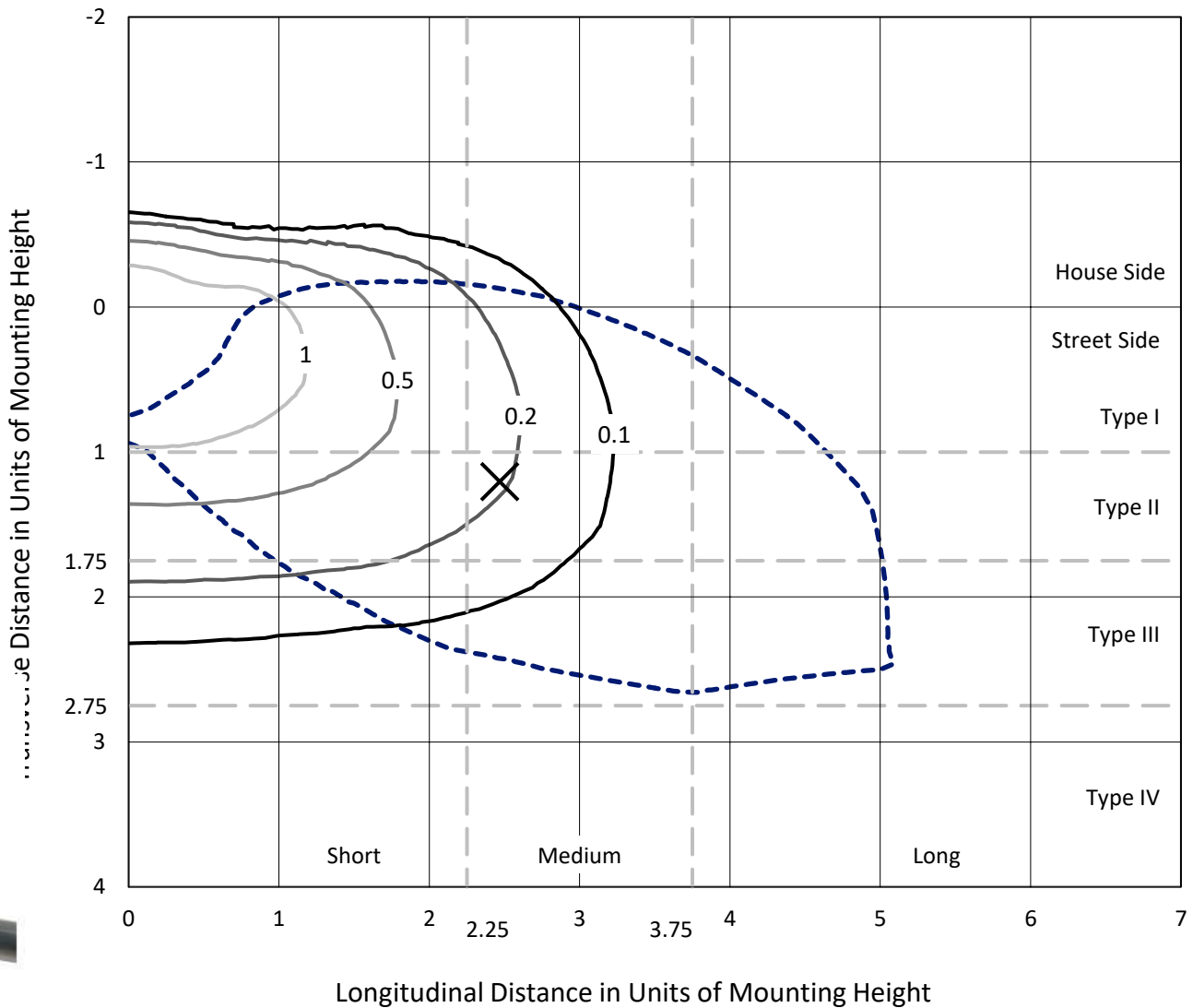


REPORT NUMBER: P691420

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

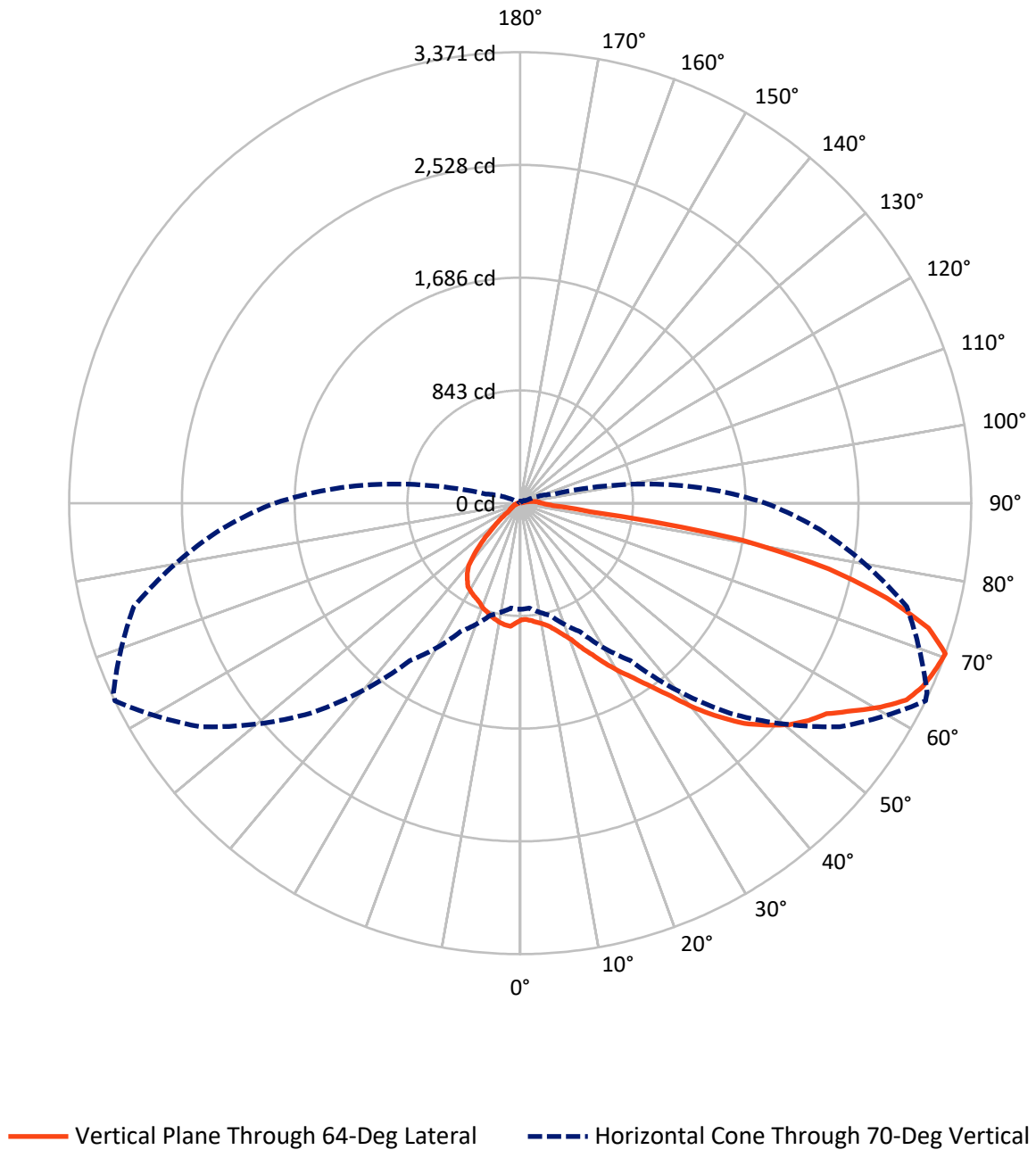


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P691420

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691420

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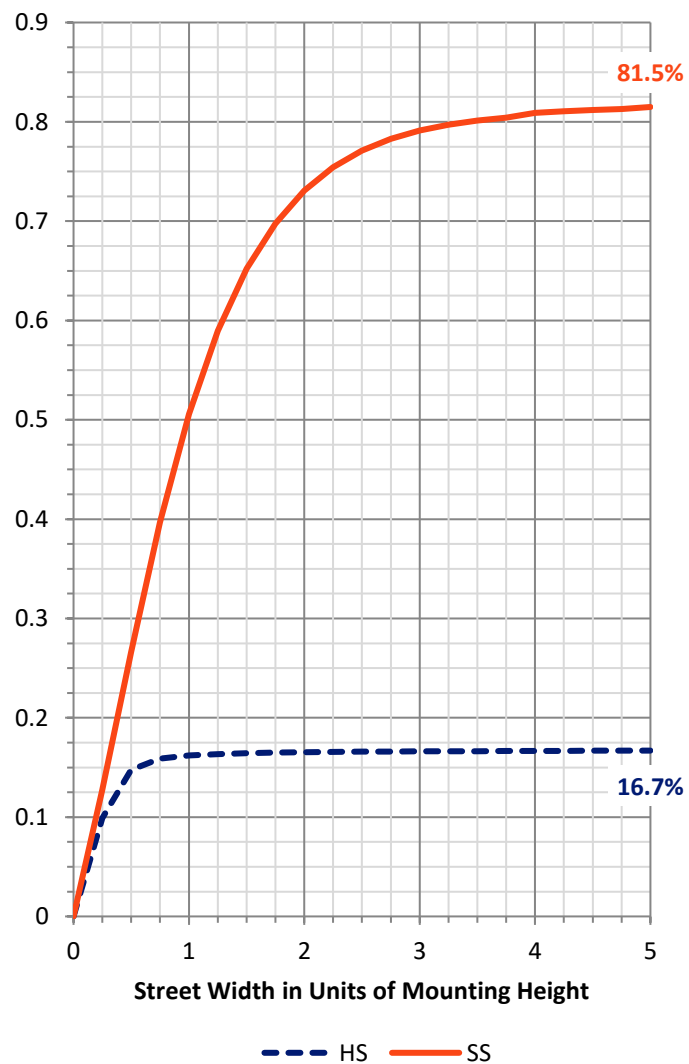
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	975.0	11.9	986.9
	% Fixture	17.0	0.2	17.2
Street Side	Lumens	4713.7	48.5	4762.2
	% Fixture	82.0	0.8	82.8
Total	Lumens	5688.7	60.4	5749.1
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.5
10°-20°	265.0	4.6
20°-30°	458.0	8.0
30°-40°	679.7	11.8
40°-50°	933.6	16.2
50°-60°	1133.8	19.7
60°-70°	1204.6	21.0
70°-80°	795.8	13.8
80°-90°	131.8	2.3
90°-100°	49.1	0.9
100°-110°	8.3	0.1
110°-120°	0.6	0.0
120°-130°	0.7	0.0
130°-140°	0.6	0.0
140°-150°	0.5	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	5688.7	98.9
0°-180°	5749.1	100.0

Coefficient of Utilization



REPORT NUMBER: P691420

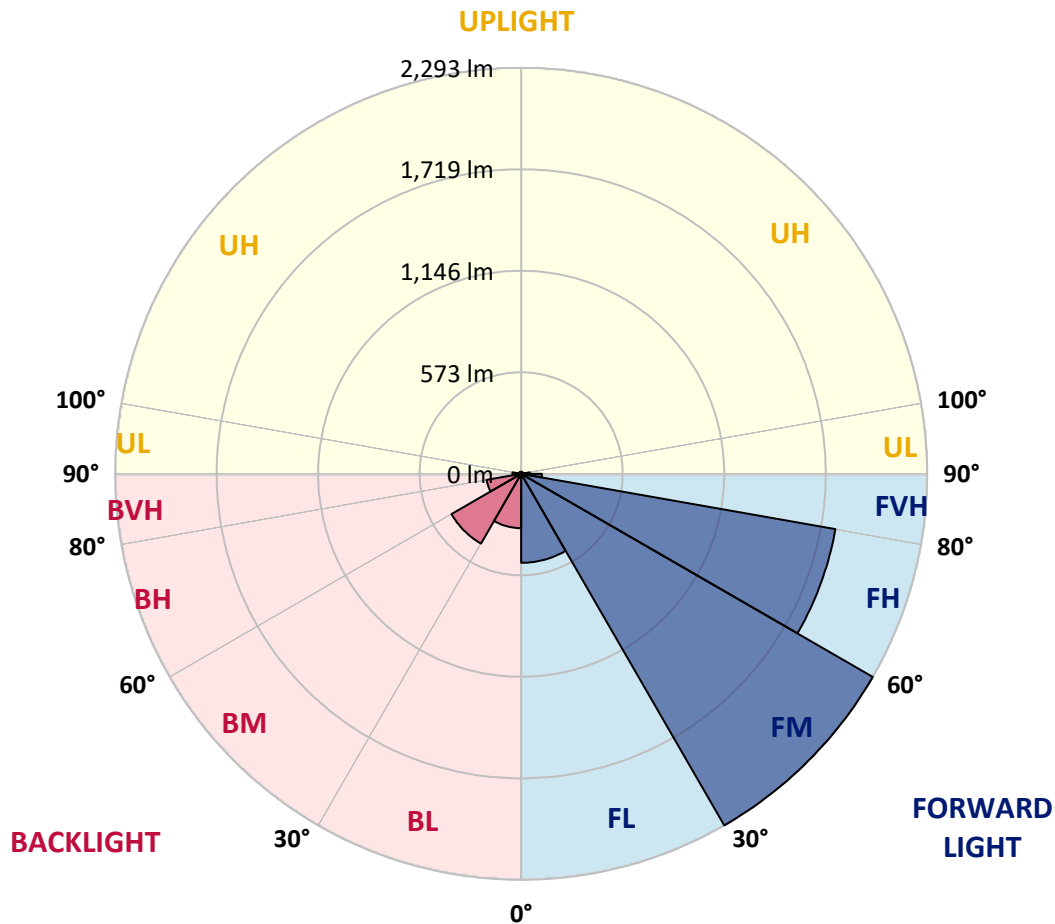
CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	502.5	8.7			
FM	(30°-60°)	2292.6	39.9			
FH	(60°-80°)	1801.6	31.3			G2/5000
FVH	(80°-90°)	117.0	2.0			G2/225
BL	(0°-30°)	306.9	5.3	B1/500		
BM	(30°-60°)	454.5	7.9	B1/1000		
BH	(60°-80°)	198.8	3.5	B1/500		G1/500
BVH	(80°-90°)	14.8	0.3			G1/100
UL	(90°-100°)	49.1	0.9		U2/50	
UH	(100°-180°)	11.3	0.2		U2/50	

BUG Rating: B1-U2-G2

Type III Medium



REPORT NUMBER: P691420

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1
2.5°	878.3	876.2	878.3	876.2	874.2	872.1	870.0	870.0	868.0	870.0	872.1
5°	917.3	919.4	915.3	907.1	896.8	888.5	884.4	882.4	882.4	884.4	892.7
7.5°	946.1	944.1	942.0	940.0	931.7	913.2	902.9	898.8	898.8	894.7	909.1
10°	997.6	993.4	983.2	970.8	962.6	942.0	923.5	917.3	915.3	917.3	929.7
12.5°	1053.1	1049.0	1046.9	1034.6	1005.8	987.3	956.4	942.0	942.0	942.0	948.2
15°	1133.3	1127.1	1106.6	1092.2	1067.5	1036.6	1001.7	981.1	981.1	985.2	968.8
17.5°	1190.9	1186.8	1184.7	1160.0	1139.5	1092.2	1065.4	1030.5	1030.5	1038.7	1003.7
20°	1250.5	1246.4	1248.5	1244.4	1213.5	1176.5	1129.2	1088.1	1088.1	1090.1	1040.8
22.5°	1330.8	1324.6	1324.6	1322.5	1306.1	1262.9	1207.4	1172.4	1166.2	1149.8	1088.1
25°	1411.0	1408.9	1404.8	1406.9	1402.8	1353.4	1293.7	1254.7	1254.7	1232.0	1151.8
27.5°	1491.2	1491.2	1489.1	1491.2	1489.1	1458.3	1398.6	1357.5	1359.6	1330.8	1221.8
30°	1548.8	1546.7	1561.1	1567.3	1571.4	1559.1	1501.5	1456.2	1460.3	1431.5	1304.0
32.5°	1602.3	1600.2	1624.9	1639.3	1643.4	1641.3	1594.0	1557.0	1567.3	1540.6	1402.8
35°	1651.6	1649.6	1682.5	1719.5	1736.0	1731.8	1701.0	1680.4	1690.7	1688.7	1536.4
37.5°	1688.7	1694.8	1738.0	1789.4	1818.2	1820.3	1805.9	1828.5	1840.9	1882.0	1703.1
40°	1731.8	1731.8	1773.0	1828.5	1879.9	1900.5	1912.8	2015.7	2028.0	2036.3	1814.1
42.5°	1686.6	1698.9	1787.4	1869.7	1935.5	1982.8	2050.7	2184.3	2211.1	2149.4	1949.9
45°	1651.6	1661.9	1752.4	1890.2	1984.8	2073.3	2200.8	2348.9	2369.5	2262.5	2021.9
47.5°	1614.6	1631.1	1723.6	1875.8	2032.1	2184.3	2326.3	2478.5	2497.0	2359.2	2122.6
50°	1571.4	1589.9	1688.7	1855.3	2056.8	2289.2	2439.4	2603.9	2606.0	2443.5	2178.2
52.5°	1530.3	1542.6	1645.5	1828.5	2077.4	2369.5	2546.3	2698.6	2686.2	2550.5	2237.8
55°	1460.3	1485.0	1594.0	1791.5	2087.7	2414.7	2620.4	2778.8	2787.0	2665.6	2318.0
57.5°	1396.6	1413.0	1528.2	1738.0	2079.4	2441.5	2692.4	2928.9	2945.4	2768.5	2375.6
60°	1316.4	1326.7	1437.7	1664.0	2026.0	2486.7	2852.8	3095.5	3114.0	2867.2	2398.3
62.5°	1215.6	1215.6	1326.7	1565.2	1958.1	2519.6	2963.9	3239.5	3239.5	2945.4	2406.5
65°	1086.0	1092.2	1190.9	1431.5	1845.0	2501.1	2996.8	3307.4	3313.5	3000.9	2402.4
67.5°	960.5	958.5	1044.9	1256.7	1674.3	2404.4	2972.1	3342.3	3367.0	3033.8	2348.9
70°	793.9	787.8	868.0	1059.3	1435.7	2221.4	2914.5	3371.1	3354.7	2990.6	2244.0
72.5°	610.9	604.7	664.4	810.4	1131.3	1906.7	2745.9	3190.1	3161.3	2756.1	2028.0
75°	434.0	425.8	473.1	569.7	744.6	1394.5	2355.1	2830.2	2797.3	2478.5	1692.8
77.5°	246.8	238.6	281.8	359.9	450.4	789.8	1783.3	2359.2	2404.4	2044.5	1293.7
80°	109.0	104.9	123.4	172.8	253.0	376.4	970.8	1686.6	1624.9	1394.5	736.3
82.5°	92.6	92.6	94.6	98.7	102.8	172.8	364.1	530.7	508.0	409.3	234.5
85°	80.2	78.2	82.3	86.4	88.4	113.1	211.9	255.0	250.9	226.3	162.5
87.5°	65.8	61.7	67.9	72.0	72.0	92.6	158.4	187.2	187.2	189.2	144.0
90°	57.6	57.6	53.5	53.5	55.5	65.8	121.4	154.3	158.4	195.4	166.6
92.5°	49.4	49.4	49.4	49.4	41.1	47.3	86.4	137.8	148.1	191.3	150.1
95°	47.3	45.3	47.3	43.2	41.1	43.2	65.8	121.4	133.7	168.7	131.6
97.5°	32.9	30.9	35.0	35.0	37.0	39.1	55.5	90.5	94.6	125.5	98.7
100°	22.6	20.6	20.6	20.6	26.7	26.7	45.3	55.5	57.6	80.2	65.8
102.5°	12.3	10.3	10.3	10.3	14.4	16.5	22.6	30.9	30.9	43.2	37.0
105°	4.1	4.1	6.2	6.2	6.2	8.2	8.2	10.3	10.3	12.3	16.5
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1

REPORT NUMBER: P691420

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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: P691420

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1	872.1
2.5°	874.2	878.3	888.5	894.7	902.9	911.2	917.3	917.3	923.5	919.4	917.3
5°	900.9	902.9	915.3	923.5	921.5	913.2	907.1	902.9	905.0	909.1	909.1
7.5°	919.4	927.6	917.3	917.3	915.3	905.0	892.7	880.3	874.2	872.1	872.1
10°	929.7	921.5	917.3	907.1	884.4	878.3	868.0	845.4	839.2	839.2	831.0
12.5°	935.9	931.7	909.1	890.6	870.0	837.1	814.5	810.4	791.9	789.8	791.9
15°	960.5	940.0	911.2	876.2	837.1	808.3	777.5	744.6	730.2	732.2	734.3
17.5°	977.0	958.5	907.1	851.5	816.6	763.1	728.1	709.6	687.0	687.0	687.0
20°	1003.7	972.9	900.9	841.2	759.0	719.9	678.8	658.2	635.6	596.5	592.4
22.5°	1038.7	999.6	898.8	810.4	736.3	672.6	612.9	549.2	516.3	493.6	487.5
25°	1081.9	1036.6	913.2	796.0	693.1	615.0	538.9	452.5	390.8	378.5	378.5
27.5°	1155.9	1083.9	931.7	781.6	668.5	551.2	431.9	355.8	302.4	285.9	283.8
30°	1227.9	1143.6	937.9	767.2	621.2	464.8	333.2	253.0	205.7	185.1	181.0
32.5°	1341.0	1225.9	991.4	754.9	567.7	374.3	236.5	160.4	121.4	109.0	107.0
35°	1456.2	1336.9	1009.9	721.9	471.0	273.6	135.8	86.4	65.8	55.5	53.5
37.5°	1604.3	1476.8	1065.4	687.0	374.3	156.3	76.1	47.3	41.1	41.1	41.1
40°	1690.7	1538.5	1114.8	641.7	257.1	80.2	45.3	37.0	37.0	35.0	35.0
42.5°	1801.8	1614.6	1158.0	553.3	135.8	49.4	39.1	35.0	30.9	30.9	30.9
45°	1865.5	1664.0	1143.6	444.3	63.8	45.3	37.0	30.9	28.8	28.8	28.8
47.5°	1943.7	1725.7	1112.7	329.1	55.5	41.1	35.0	28.8	26.7	28.8	28.8
50°	2021.9	1787.4	1034.6	253.0	51.4	39.1	30.9	24.7	24.7	26.7	26.7
52.5°	2060.9	1830.6	942.0	174.8	51.4	37.0	28.8	24.7	22.6	22.6	22.6
55°	2106.2	1840.9	863.9	115.2	49.4	35.0	26.7	20.6	20.6	18.5	18.5
57.5°	2130.9	1814.1	806.3	96.7	47.3	32.9	24.7	18.5	16.5	14.4	14.4
60°	2120.6	1775.0	756.9	84.3	43.2	30.9	22.6	16.5	12.3	10.3	10.3
62.5°	2100.0	1742.1	666.4	74.0	41.1	26.7	18.5	14.4	10.3	8.2	8.2
65°	2077.4	1653.7	561.5	63.8	37.0	24.7	16.5	12.3	8.2	6.2	6.2
67.5°	1972.5	1536.4	411.4	57.6	35.0	22.6	14.4	10.3	8.2	6.2	6.2
70°	1834.7	1341.0	265.3	49.4	30.9	20.6	14.4	8.2	6.2	4.1	4.1
72.5°	1561.1	1094.2	133.7	43.2	28.8	20.6	12.3	8.2	6.2	4.1	2.1
75°	1275.2	816.6	86.4	37.0	26.7	20.6	12.3	8.2	4.1	2.1	2.1
77.5°	913.2	442.2	65.8	32.9	22.6	20.6	10.3	6.2	4.1	4.1	2.1
80°	380.5	160.4	53.5	26.7	20.6	18.5	10.3	6.2	4.1	4.1	2.1
82.5°	160.4	111.1	47.3	22.6	18.5	18.5	8.2	6.2	4.1	4.1	4.1
85°	125.5	92.6	41.1	20.6	16.5	20.6	8.2	6.2	6.2	6.2	6.2
87.5°	117.2	94.6	37.0	18.5	16.5	14.4	8.2	6.2	10.3	10.3	12.3
90°	131.6	98.7	28.8	16.5	14.4	12.3	6.2	4.1	4.1	0.0	0.0
92.5°	121.4	90.5	20.6	12.3	18.5	8.2	4.1	0.0	0.0	0.0	0.0
95°	104.9	76.1	12.3	8.2	20.6	10.3	2.1	0.0	0.0	0.0	0.0
97.5°	78.2	55.5	8.2	4.1	16.5	12.3	2.1	0.0	0.0	0.0	0.0
100°	55.5	35.0	6.2	4.1	10.3	12.3	2.1	0.0	0.0	0.0	0.0
102.5°	30.9	18.5	4.1	2.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0
105°	14.4	6.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
110°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P691420

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
115°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
120°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
122.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
125°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
127.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
130°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
132.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
135°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
137.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
140°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
142.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
145°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
147.5°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
150°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
157.5°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.1	2.1	2.1	2.1	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)