

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: P691452

Luminaire Tested: **CRTK2-C016-5TLD-U-T5R-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T5R-7040-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5467 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

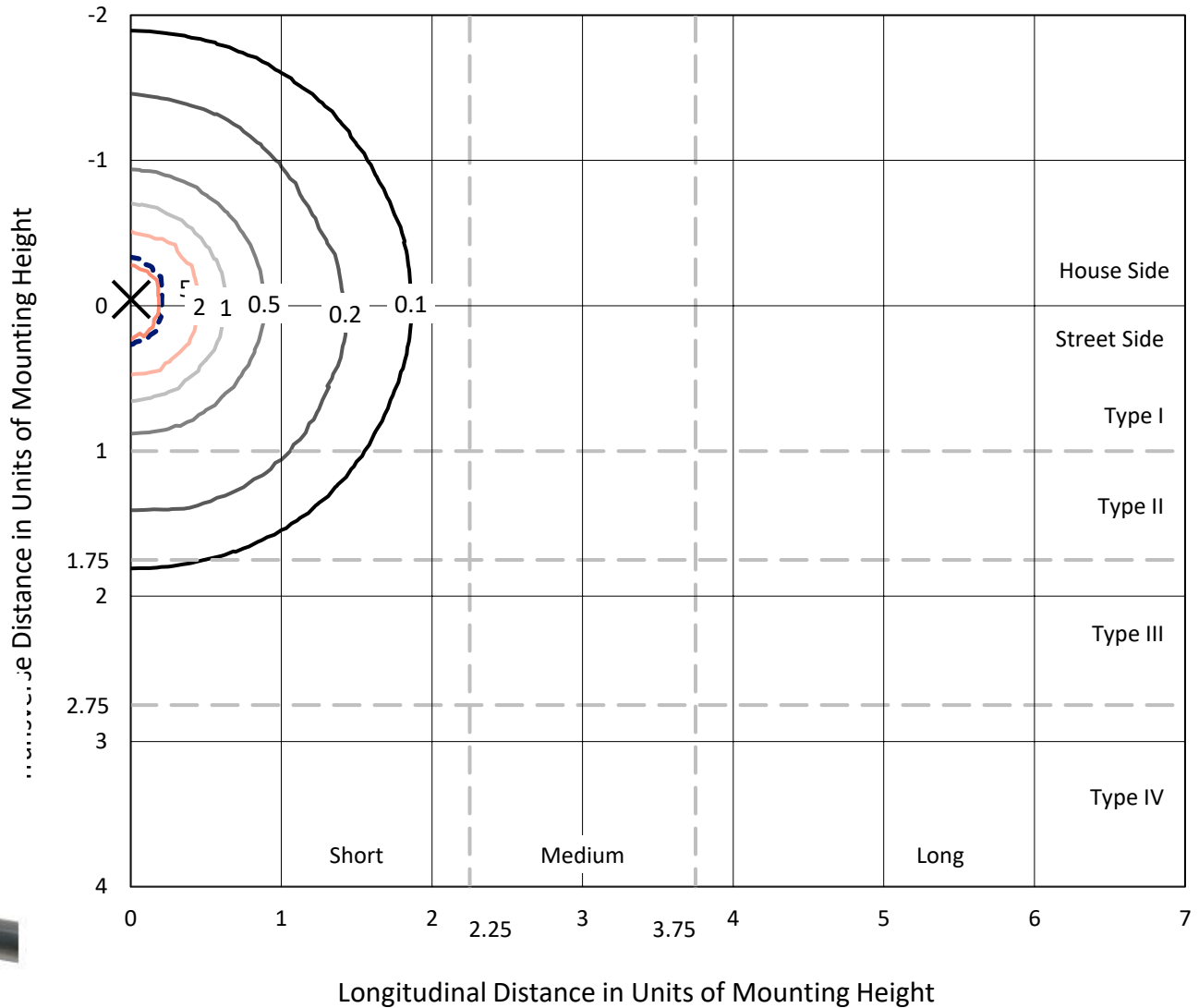
Input Watts (W): 42.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

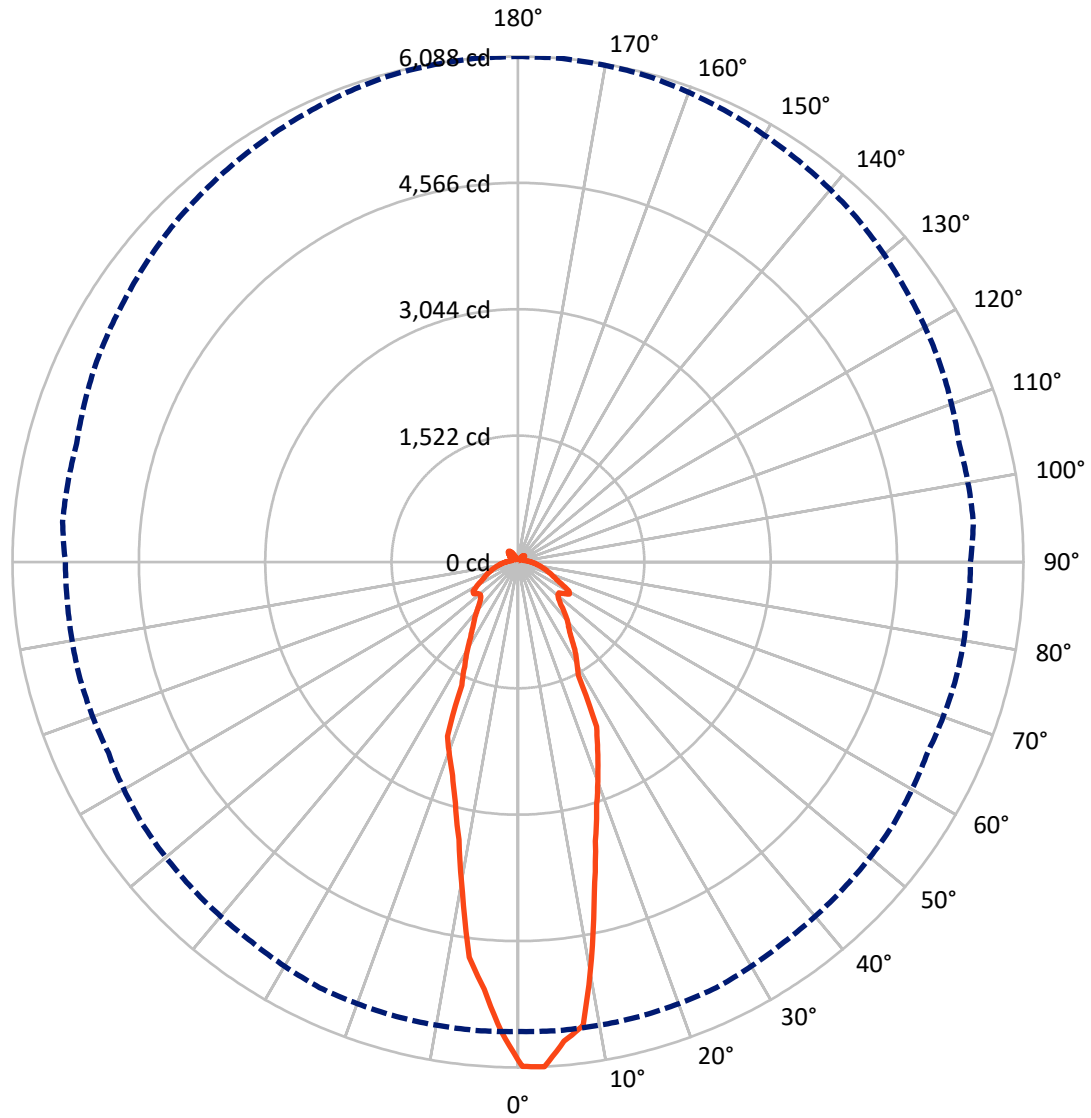
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type V - Short - N/A

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CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-RMARROA5

Luminous Intensity Polar Plot



— Vertical Plane Through 175-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-RMARROA5

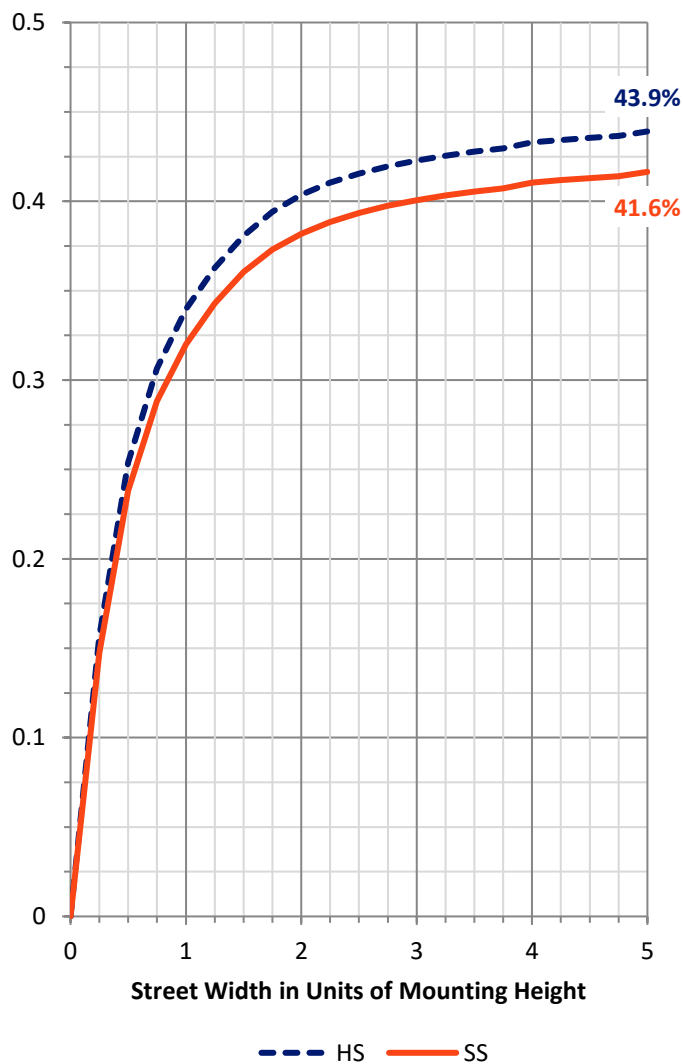
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2474.3	326.9	2801.1
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	2330.4	335.5	2665.8
	% Fixture	42.6	6.1	48.8
Total	Lumens	4804.7	662.3	5467.0
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.3	8.3
10°-20°	793.9	14.5
20°-30°	787.2	14.4
30°-40°	606.8	11.1
40°-50°	520.2	9.5
50°-60°	581.9	10.6
60°-70°	498.5	9.1
70°-80°	343.0	6.3
80°-90°	220.8	4.0
90°-100°	132.3	2.4
100°-110°	78.7	1.4
110°-120°	72.9	1.3
120°-130°	104.0	1.9
130°-140°	134.4	2.5
140°-150°	99.5	1.8
150°-160°	36.4	0.7
160°-170°	4.2	0.1
170°-180°	0.0	0.0
0°-90°	4804.7	87.9
0°-180°	5467.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691452

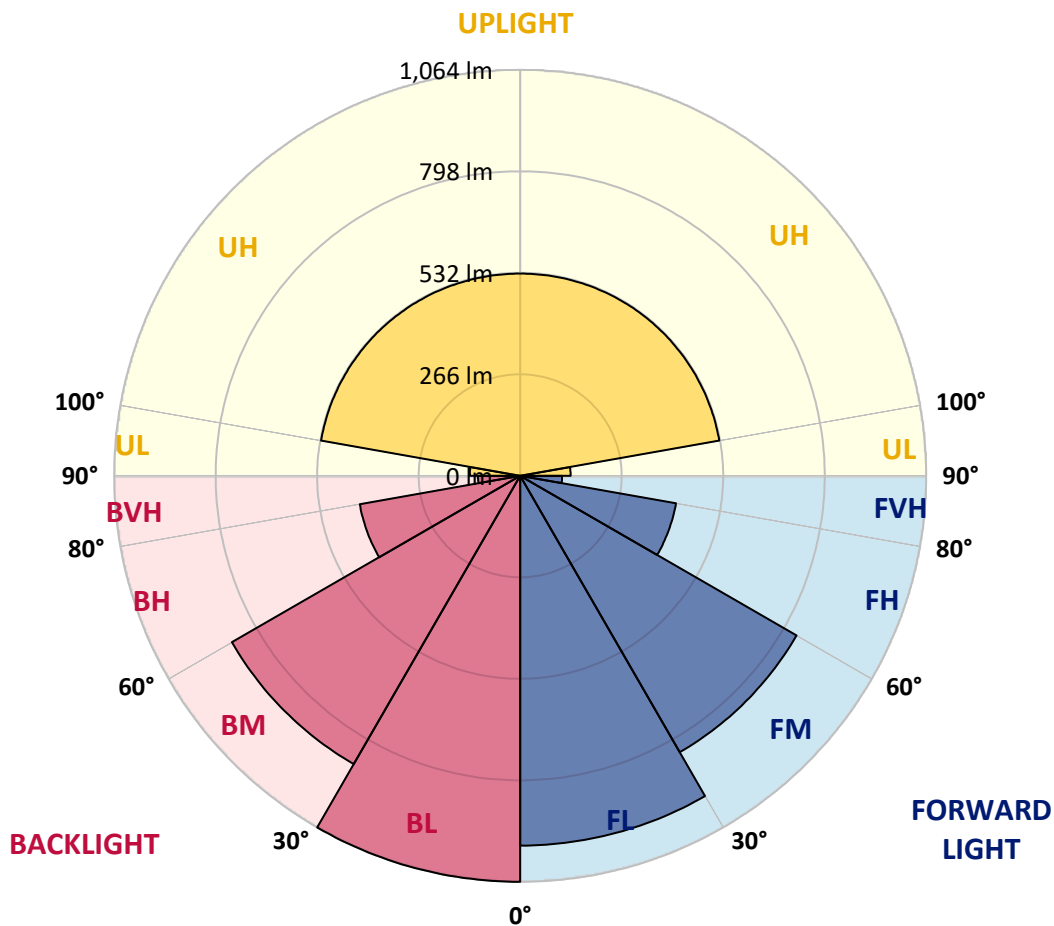
CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.2	17.7			
FM (30°-60°)	836.4	15.3			
FH (60°-80°)	414.7	7.6			G0/660
FVH (80°-90°)	110.1	2.0			G2/225
BL (0°-30°)	1064.2	19.5	B3/2500		
BM (30°-60°)	872.5	16.0	B1/1000		
BH (60°-80°)	426.9	7.8	B1/500		G0/660
BVH (80°-90°)	110.8	2.0			G2/225
UL (90°-100°)	132.3	2.4		U3/500	
UH (100°-180°)	530.0	9.7		U4/1000	

BUG Rating: B3-U4-G2

Type V Short





REPORT NUMBER: P691452

CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5
2.5°	5655.9	5664.1	5666.2	5655.9	5588.0	5553.1	5516.1	5442.0	5458.5	5448.2	5450.2
5°	5129.4	5162.3	5110.9	5096.5	4993.7	4917.6	4843.5	4763.3	4744.8	4711.9	4724.2
7.5°	4779.8	4798.3	4713.9	4627.6	4463.0	4345.8	4222.4	4099.0	4006.4	3971.5	3985.9
10°	3979.7	4041.4	3957.1	3868.6	3712.3	3572.5	3442.9	3321.6	3237.2	3210.5	3214.6
12.5°	3383.3	3418.2	3346.2	3286.6	3111.8	2978.1	2858.8	2745.7	2677.8	2649.0	2649.0
15°	2988.4	3002.8	2947.2	2832.1	2700.4	2579.1	2478.3	2396.0	2340.5	2330.2	2334.3
17.5°	2690.2	2690.2	2634.6	2544.1	2443.4	2336.4	2266.5	2204.8	2180.1	2188.3	2190.4
20°	2466.0	2468.0	2418.7	2330.2	2243.9	2147.2	2089.6	2046.4	2032.0	2046.4	2048.5
22.5°	2254.1	2264.4	2210.9	2145.1	2050.5	1974.4	1927.1	1879.8	1871.6	1877.8	1877.8
25°	1631.0	1631.0	1612.4	1561.0	1581.6	1589.8	1645.4	1764.6	1740.0	1762.6	1760.5
27.5°	1406.8	1415.0	1378.0	1332.7	1285.4	1229.9	1219.6	1209.3	1199.1	1246.4	1262.8
30°	1242.2	1246.4	1215.5	1184.7	1145.6	1114.7	1106.5	1106.5	1096.2	1133.2	1131.2
32.5°	1085.9	1079.8	1071.5	1042.7	1018.1	991.3	997.5	993.4	993.4	1026.3	1028.3
35°	962.5	960.5	954.3	933.7	909.1	888.5	894.7	898.8	896.7	917.3	917.3
37.5°	872.0	874.1	870.0	861.8	837.1	820.6	824.7	820.6	826.8	841.2	841.2
40°	783.6	783.6	785.7	783.6	767.1	761.0	773.3	767.1	781.5	791.8	787.7
42.5°	699.3	701.3	705.4	701.3	691.0	684.9	691.0	693.1	713.7	728.1	726.0
45°	645.8	645.8	647.9	645.8	637.6	631.4	631.4	625.2	639.6	647.9	645.8
47.5°	610.8	610.8	615.0	612.9	608.8	602.6	598.5	590.3	596.4	602.6	596.4
50°	598.5	598.5	606.7	606.7	604.7	598.5	592.3	582.0	584.1	588.2	580.0
52.5°	617.0	617.0	631.4	637.6	637.6	627.3	619.1	604.7	604.7	608.8	596.4
55°	656.1	656.1	678.7	691.0	693.1	693.1	682.8	668.4	670.5	678.7	666.4
57.5°	641.7	643.7	662.3	678.7	689.0	695.2	695.2	686.9	693.1	713.7	707.5
60°	573.8	577.9	590.3	604.7	623.2	629.3	629.3	627.3	637.6	662.3	662.3
62.5°	510.1	512.1	518.3	530.6	540.9	545.0	545.0	536.8	549.1	561.5	557.4
65°	460.7	458.6	471.0	481.3	487.4	493.6	487.4	479.2	485.4	493.6	491.6
67.5°	419.6	419.6	429.8	438.1	442.2	448.4	444.2	440.1	448.4	452.5	448.4
70°	380.5	382.5	390.8	396.9	401.1	407.2	401.1	399.0	407.2	411.3	409.3
72.5°	341.4	343.5	349.6	357.9	362.0	364.0	362.0	359.9	366.1	370.2	370.2
75°	306.4	308.5	312.6	320.8	320.8	325.0	322.9	320.8	327.0	331.1	331.1
77.5°	273.5	277.7	279.7	285.9	287.9	290.0	287.9	287.9	292.1	296.2	298.2
80°	244.7	246.8	248.9	255.0	255.0	257.1	255.0	255.0	259.1	265.3	265.3
82.5°	218.0	220.1	222.1	226.2	224.2	226.2	226.2	226.2	230.3	236.5	236.5
85°	191.3	195.4	195.4	199.5	199.5	199.5	199.5	201.6	203.6	209.8	209.8
87.5°	168.6	170.7	172.8	174.8	174.8	176.9	176.9	178.9	181.0	185.1	187.2
90°	146.0	148.1	150.1	150.1	150.1	152.2	152.2	154.3	156.3	160.4	162.5
92.5°	129.6	131.6	131.6	133.7	133.7	133.7	135.7	137.8	139.9	144.0	144.0
95°	115.2	117.2	117.2	117.2	117.2	119.3	119.3	121.3	123.4	127.5	127.5
97.5°	102.8	102.8	102.8	102.8	102.8	104.9	104.9	106.9	109.0	111.1	111.1
100°	90.5	90.5	90.5	90.5	90.5	90.5	90.5	92.6	92.6	96.7	96.7
102.5°	80.2	80.2	78.2	78.2	78.2	76.1	76.1	78.2	78.2	80.2	80.2
105°	72.0	72.0	72.0	72.0	69.9	69.9	69.9	69.9	69.9	72.0	72.0
107.5°	69.9	69.9	67.9	67.9	67.9	65.8	65.8	65.8	65.8	67.9	67.9
110°	67.9	67.9	67.9	67.9	65.8	65.8	63.8	63.8	63.8	65.8	65.8



REPORT NUMBER: P691452

CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	69.9	69.9	69.9	67.9	67.9	65.8	65.8	65.8	65.8	65.8	67.9
115°	74.0	72.0	72.0	72.0	72.0	69.9	67.9	67.9	69.9	69.9	69.9
117.5°	80.2	78.2	78.2	80.2	78.2	76.1	74.0	74.0	76.1	76.1	78.2
120°	88.4	86.4	88.4	88.4	88.4	86.4	84.3	82.3	84.3	86.4	86.4
122.5°	98.7	96.7	98.7	100.8	100.8	98.7	94.6	94.6	96.7	98.7	100.8
125°	111.1	111.1	113.1	115.2	117.2	113.1	111.1	109.0	113.1	115.2	115.2
127.5°	125.5	123.4	127.5	133.7	135.7	131.6	127.5	125.5	129.6	133.7	133.7
130°	139.9	137.8	144.0	150.1	154.3	150.1	146.0	144.0	148.1	152.2	152.2
132.5°	152.2	150.1	158.4	166.6	170.7	168.6	164.5	160.4	166.6	170.7	168.6
135°	162.5	162.5	172.8	181.0	185.1	183.0	178.9	174.8	183.0	187.2	183.0
137.5°	168.6	168.6	181.0	189.2	193.3	193.3	191.3	187.2	195.4	197.4	191.3
140°	168.6	170.7	181.0	189.2	191.3	193.3	193.3	191.3	199.5	199.5	193.3
142.5°	162.5	164.5	174.8	183.0	185.1	187.2	189.2	187.2	193.3	193.3	189.2
145°	152.2	154.3	164.5	172.8	172.8	174.8	178.9	176.9	181.0	183.0	178.9
147.5°	137.8	139.9	148.1	152.2	154.3	158.4	162.5	162.5	164.5	166.6	164.5
150°	119.3	119.3	125.5	129.6	131.6	135.7	139.9	141.9	141.9	144.0	141.9
152.5°	94.6	94.6	98.7	102.8	104.9	111.1	113.1	115.2	117.2	119.3	117.2
155°	72.0	72.0	74.0	76.1	78.2	84.3	86.4	88.4	90.5	92.6	90.5
157.5°	51.4	51.4	53.5	55.5	57.6	61.7	63.8	65.8	65.8	67.9	67.9
160°	32.9	35.0	35.0	37.0	37.0	41.1	43.2	43.2	45.2	47.3	47.3
162.5°	16.5	18.5	18.5	20.6	22.6	24.7	26.7	26.7	28.8	28.8	28.8
165°	4.1	6.2	6.2	8.2	8.2	10.3	12.3	12.3	14.4	14.4	14.4
167.5°	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	4.1	4.1
170°	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	2.1	2.1	2.1
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: P691452

CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5	6075.5
2.5°	5505.8	5501.7	5614.8	5705.3	5812.2	5896.5	5978.8	6057.0	6087.8	6085.8	6087.8
5°	4779.8	4851.7	4999.8	5145.9	5318.6	5481.1	5633.3	5734.1	5797.8	5797.8	5804.0
7.5°	4051.7	4166.9	4349.9	4582.3	4841.5	5053.3	5310.4	5491.4	5635.3	5631.2	5658.0
10°	3272.2	3362.7	3545.7	3794.6	4080.5	4325.2	4549.4	4718.1	4857.9	4849.7	4884.7
12.5°	2688.1	2751.9	2910.2	3136.5	3397.7	3634.2	3854.2	3985.9	4084.6	4082.5	4101.1
15°	2344.6	2410.4	2513.3	2669.6	2885.5	3095.3	3315.4	3434.7	3490.2	3484.0	3514.9
17.5°	2204.8	2231.5	2295.3	2400.2	2556.5	2727.2	2902.0	3004.8	3068.6	3060.4	3083.0
20°	2054.6	2079.3	2122.5	2200.7	2311.7	2441.3	2589.4	2702.5	2749.8	2747.7	2762.1
22.5°	1881.9	1894.2	1941.5	2003.2	2083.4	2188.3	2301.4	2404.3	2451.6	2449.5	2463.9
25°	1762.6	1783.2	1811.9	1849.0	1904.5	1986.8	2081.4	2153.4	2196.6	2192.4	2210.9
27.5°	1287.5	1308.1	1322.5	1345.1	1347.1	1415.0	1447.9	1507.6	1546.6	1544.6	1556.9
30°	1131.2	1135.3	1147.6	1178.5	1197.0	1250.5	1316.3	1361.5	1394.4	1406.8	1415.0
32.5°	1032.5	1044.8	1059.2	1073.6	1096.2	1129.1	1180.5	1221.7	1256.6	1262.8	1277.2
35°	919.3	927.6	937.9	952.2	966.6	993.4	1032.5	1065.4	1092.1	1102.4	1110.6
37.5°	839.1	841.2	851.5	867.9	880.3	902.9	937.9	962.5	989.3	991.3	999.6
40°	785.7	787.7	798.0	812.4	826.8	841.2	872.0	894.7	913.2	915.2	921.4
42.5°	724.0	730.1	734.2	740.4	750.7	763.0	789.8	802.1	814.5	816.5	824.7
45°	639.6	641.7	645.8	652.0	664.3	676.7	695.2	709.6	717.8	717.8	715.7
47.5°	592.3	594.4	594.4	602.6	612.9	625.2	641.7	654.0	658.1	658.1	658.1
50°	575.9	575.9	571.8	577.9	588.2	596.4	612.9	623.2	625.2	627.3	629.3
52.5°	588.2	584.1	571.8	577.9	588.2	596.4	612.9	617.0	617.0	621.1	623.2
55°	656.1	649.9	625.2	629.3	641.7	652.0	664.3	666.4	670.5	676.7	674.6
57.5°	699.3	703.4	674.6	680.8	703.4	711.6	726.0	724.0	732.2	740.4	742.5
60°	658.1	670.5	647.9	656.1	682.8	686.9	701.3	693.1	705.4	705.4	705.4
62.5°	559.4	563.5	551.2	563.5	588.2	588.2	598.5	592.3	596.4	592.3	594.4
65°	489.5	487.4	473.0	489.5	497.7	501.8	510.1	512.1	512.1	508.0	508.0
67.5°	446.3	442.2	429.8	434.0	442.2	444.2	456.6	458.6	456.6	456.6	458.6
70°	407.2	401.1	388.7	390.8	396.9	399.0	409.3	413.4	411.3	409.3	411.3
72.5°	368.1	362.0	349.6	349.6	355.8	359.9	368.1	372.3	368.1	368.1	370.2
75°	331.1	325.0	312.6	312.6	316.7	318.8	329.1	331.1	329.1	327.0	329.1
77.5°	298.2	294.1	281.8	281.8	283.8	285.9	292.1	294.1	292.1	290.0	292.1
80°	267.4	261.2	253.0	250.9	253.0	253.0	259.1	261.2	257.1	257.1	259.1
82.5°	238.6	232.4	224.2	224.2	222.1	224.2	228.3	230.3	228.3	226.2	228.3
85°	211.8	207.7	199.5	197.4	197.4	197.4	201.6	201.6	199.5	199.5	199.5
87.5°	187.2	183.0	174.8	174.8	172.8	174.8	176.9	176.9	174.8	174.8	174.8
90°	162.5	158.4	152.2	152.2	150.1	152.2	154.3	154.3	152.2	152.2	152.2
92.5°	144.0	141.9	135.7	135.7	133.7	135.7	135.7	135.7	133.7	133.7	133.7
95°	127.5	125.5	121.3	119.3	119.3	119.3	119.3	119.3	117.2	117.2	117.2
97.5°	111.1	109.0	104.9	104.9	102.8	104.9	104.9	104.9	102.8	102.8	102.8
100°	96.7	94.6	92.6	92.6	90.5	90.5	90.5	90.5	90.5	90.5	90.5
102.5°	80.2	80.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
105°	72.0	72.0	72.0	72.0	74.0	74.0	74.0	72.0	72.0	72.0	72.0
107.5°	67.9	67.9	67.9	69.9	69.9	69.9	72.0	67.9	65.8	65.8	65.8
110°	65.8	65.8	67.9	67.9	69.9	69.9	72.0	63.8	61.7	61.7	61.7



REPORT NUMBER: P691452
 CATALOG NUMBER: CRTK2-C016-5TLD-U-T5R-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	67.9	67.9	67.9	69.9	72.0	72.0	74.0	63.8	61.7	61.7	61.7
115°	72.0	72.0	72.0	74.0	76.1	78.2	78.2	67.9	63.8	63.8	65.8
117.5°	78.2	78.2	78.2	80.2	84.3	84.3	84.3	72.0	69.9	69.9	69.9
120°	86.4	88.4	88.4	90.5	94.6	96.7	92.6	82.3	69.9	76.1	76.1
122.5°	98.7	100.8	102.8	104.9	111.1	111.1	104.9	94.6	76.1	84.3	86.4
125°	115.2	117.2	119.3	123.4	129.6	129.6	121.3	106.9	86.4	94.6	96.7
127.5°	131.6	135.7	137.8	144.0	152.2	152.2	141.9	123.4	96.7	102.8	104.9
130°	150.1	154.3	158.4	166.6	176.9	172.8	164.5	139.9	104.9	109.0	109.0
132.5°	166.6	172.8	174.8	187.2	197.4	193.3	183.0	150.1	109.0	109.0	106.9
135°	178.9	183.0	185.1	197.4	207.7	201.6	189.2	154.3	106.9	102.8	102.8
137.5°	187.2	191.3	193.3	201.6	209.8	199.5	183.0	146.0	102.8	100.8	98.7
140°	191.3	191.3	191.3	197.4	201.6	189.2	168.6	131.6	92.6	96.7	96.7
142.5°	187.2	185.1	183.0	187.2	189.2	174.8	156.3	117.2	84.3	88.4	88.4
145°	176.9	172.8	170.7	172.8	172.8	156.3	135.7	100.8	74.0	76.1	76.1
147.5°	162.5	156.3	152.2	152.2	150.1	133.7	115.2	84.3	63.8	61.7	61.7
150°	139.9	133.7	129.6	129.6	123.4	109.0	92.6	65.8	51.4	51.4	51.4
152.5°	115.2	109.0	104.9	104.9	98.7	84.3	69.9	49.4	39.1	39.1	39.1
155°	90.5	84.3	80.2	78.2	74.0	63.8	51.4	37.0	28.8	28.8	28.8
157.5°	67.9	63.8	59.6	57.6	53.5	47.3	37.0	26.7	18.5	20.6	20.6
160°	47.3	43.2	41.1	39.1	37.0	30.9	24.7	16.5	10.3	10.3	10.3
162.5°	28.8	26.7	26.7	24.7	22.6	20.6	14.4	8.2	4.1	4.1	4.1
165°	14.4	14.4	12.3	12.3	10.3	8.2	6.2	2.1	0.0	0.0	0.0
167.5°	4.1	4.1	4.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
170°	2.1	2.1	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

(END OF REPORT)