

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: P691390

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T2-7040-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5130 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - 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



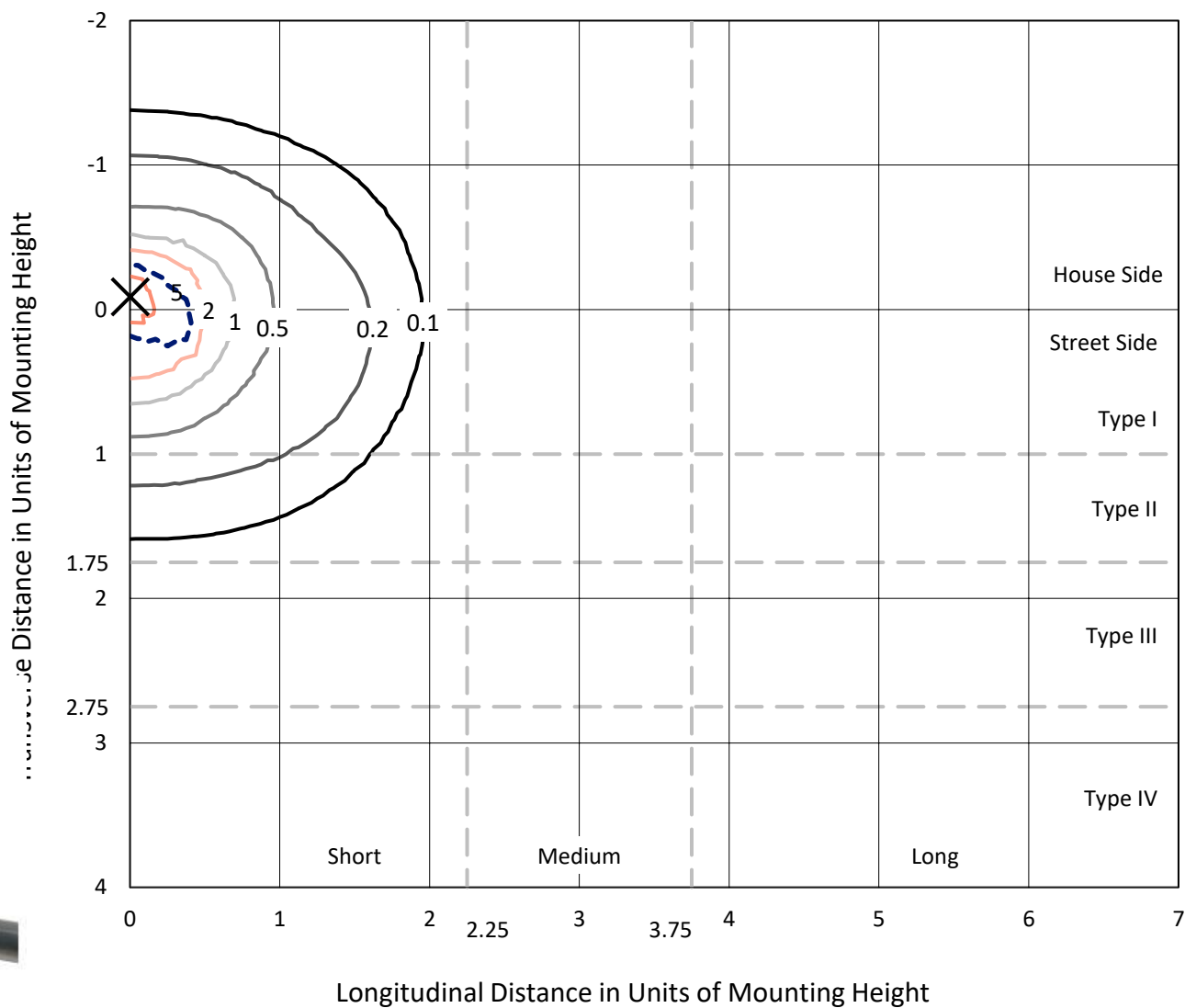
REPORT NUMBER: P691390

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7040-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

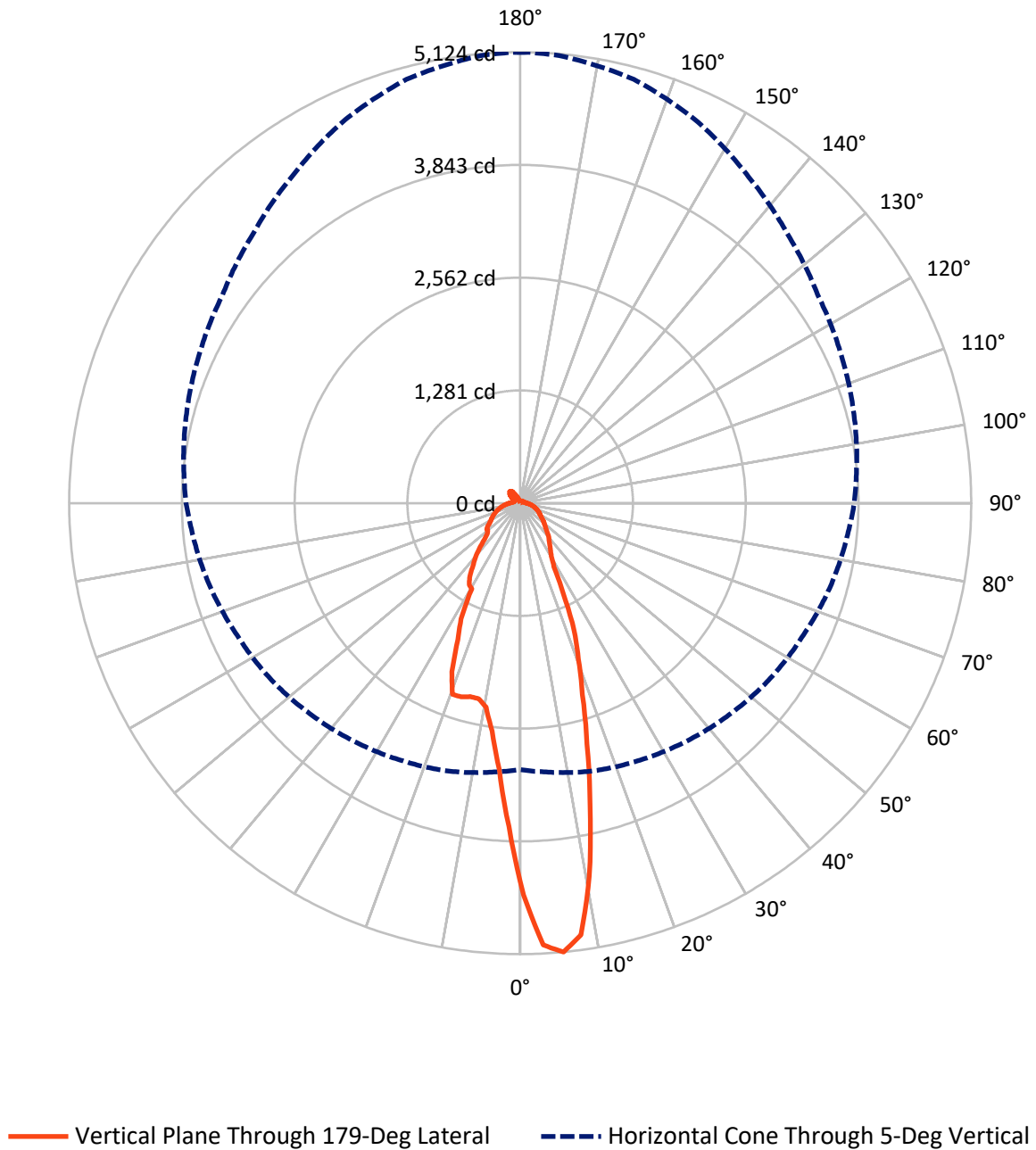


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type I - Short - N/A

REPORT NUMBER: P691390

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7040-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P691390

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7040-RMARROA5

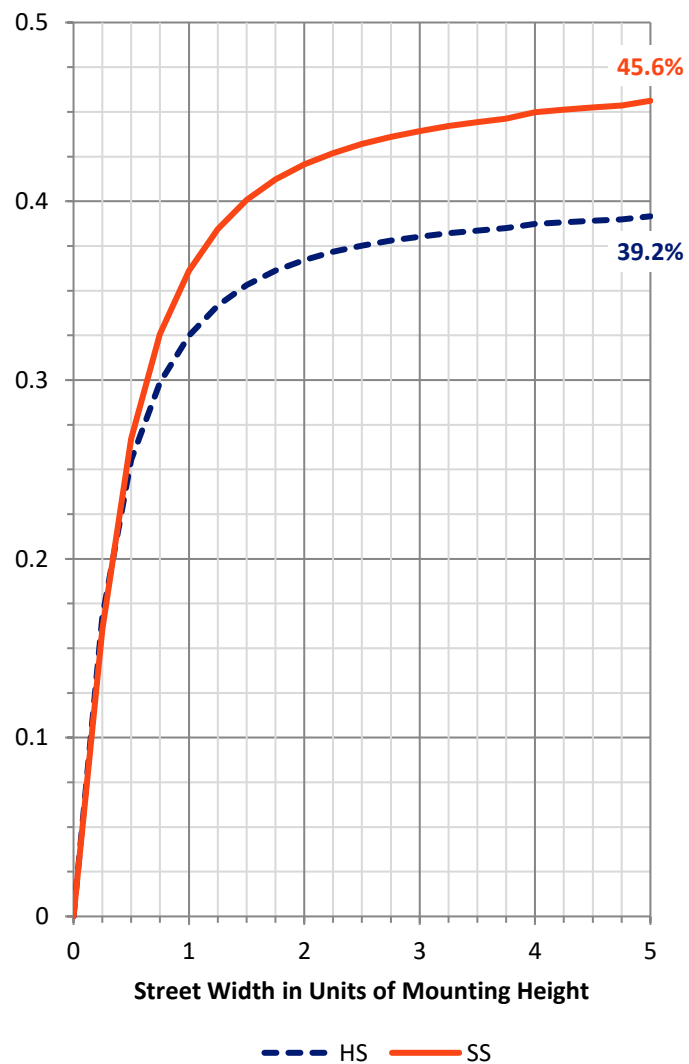
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2064.4	251.0	2315.4
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	2396.1	418.5	2814.6
	% Fixture	46.7	8.2	54.9
Total	Lumens	4460.5	669.6	5130.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.0	6.8
10°-20°	742.5	14.5
20°-30°	806.6	15.7
30°-40°	597.0	11.6
40°-50°	500.0	9.7
50°-60°	502.7	9.8
60°-70°	428.0	8.3
70°-80°	319.7	6.2
80°-90°	215.8	4.2
90°-100°	129.0	2.5
100°-110°	74.5	1.5
110°-120°	68.6	1.3
120°-130°	99.2	1.9
130°-140°	135.8	2.6
140°-150°	111.9	2.2
150°-160°	45.1	0.9
160°-170°	5.5	0.1
170°-180°	0.0	0.0
0°-90°	4460.5	86.9
0°-180°	5130.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691390

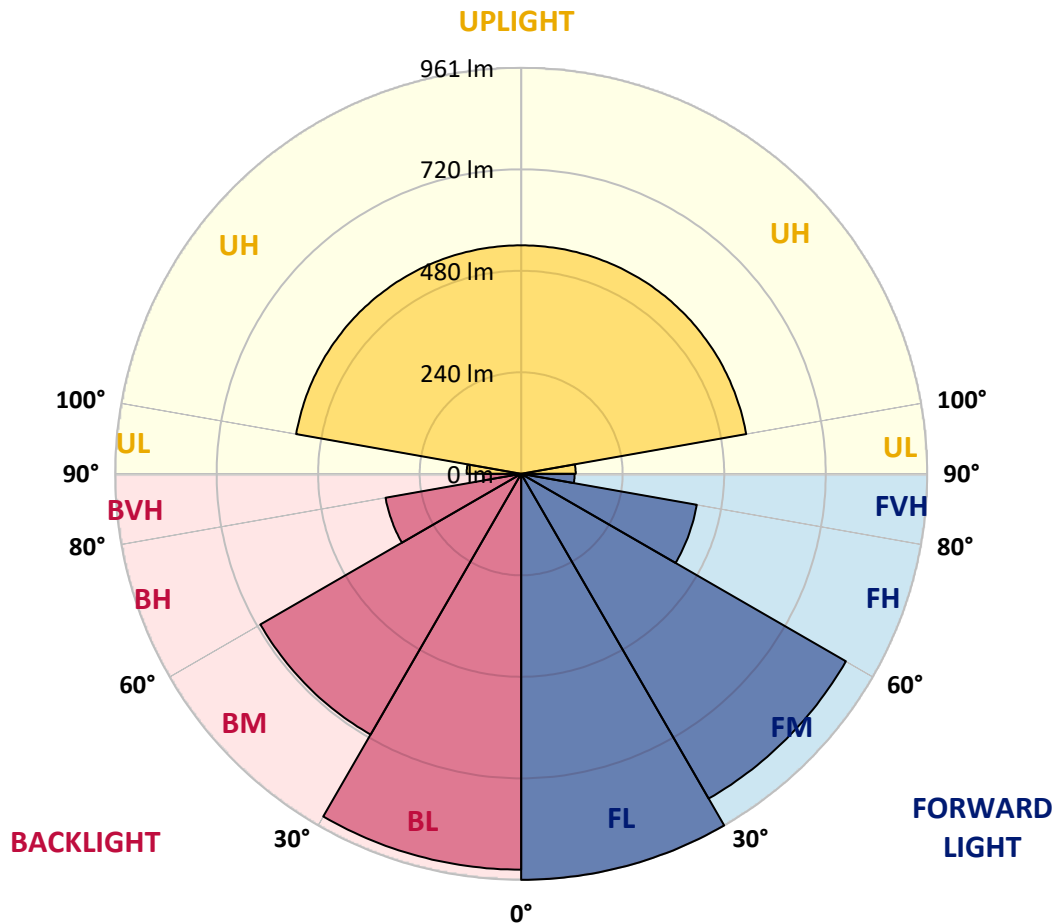
CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7040-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	960.6	18.7			
FM	(30°-60°)	887.2	17.3			
FH	(60°-80°)	421.9	8.2			G0/660
FVH	(80°-90°)	126.4	2.5			G2/225
BL	(0°-30°)	936.6	18.3	B2/1000		
BM	(30°-60°)	712.6	13.9	B1/1000		
BH	(60°-80°)	325.7	6.3	B1/500		G1/500
BVH	(80°-90°)	89.5	1.7			G1/100
UL	(90°-100°)	129.0	2.5		U3/500	
UH	(100°-180°)	540.6	10.5		U4/1000	

BUG Rating: B2-U4-G2

Type I Short



REPORT NUMBER: P691390

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6
2.5°	3669.9	3690.4	3735.7	3758.3	3781.0	3809.8	3853.0	3885.9	3962.0	4031.9	4060.7
5°	3028.1	3065.1	3151.5	3221.4	3299.6	3381.9	3470.3	3548.5	3649.3	3741.9	3795.4
7.5°	2602.2	2633.1	2735.9	2871.7	3009.5	3124.7	3215.3	3274.9	3320.2	3357.2	3396.3
10°	2343.0	2369.8	2472.6	2594.0	2711.3	2818.2	2894.3	2951.9	2968.4	3005.4	3023.9
12.5°	2269.0	2281.3	2353.3	2437.7	2509.7	2614.6	2705.1	2766.8	2793.5	2826.5	2836.7
15°	2271.0	2271.0	2312.2	2365.7	2431.5	2511.7	2612.5	2686.6	2725.7	2744.2	2742.1
17.5°	2301.9	2299.8	2318.4	2361.6	2417.1	2497.3	2600.2	2676.3	2721.5	2727.7	2721.5
20°	2301.9	2304.0	2310.1	2359.5	2413.0	2485.0	2589.9	2653.7	2688.6	2670.1	2649.6
22.5°	2067.4	2065.3	2118.8	2223.7	2367.7	2517.9	2612.5	2690.7	2698.9	2631.0	2575.5
25°	1707.4	1693.0	1723.9	1771.2	1867.9	2042.7	2240.2	2536.4	2713.3	2674.2	2589.9
27.5°	1481.1	1462.6	1489.3	1468.8	1458.5	1446.1	1433.8	1398.8	1421.5	1442.0	1532.5
30°	1117.0	1121.1	1127.3	1139.6	1164.3	1213.7	1265.1	1296.0	1322.7	1376.2	1370.0
32.5°	1092.3	1090.3	1092.3	1104.7	1117.0	1147.9	1178.7	1195.2	1215.7	1267.2	1254.8
35°	1010.0	1005.9	1020.3	1026.5	1024.4	1032.7	1063.5	1082.0	1100.6	1133.5	1121.1
37.5°	888.7	892.8	923.6	940.1	946.3	964.8	989.5	1005.9	1028.6	1053.2	1047.1
40°	798.2	796.1	829.0	851.6	866.0	894.8	931.9	956.6	993.6	1014.2	999.8
42.5°	687.1	695.3	720.0	742.6	746.7	761.1	794.0	822.8	868.1	899.0	890.7
45°	578.0	584.2	604.8	623.3	637.7	656.2	680.9	705.6	742.6	767.3	765.2
47.5°	510.2	516.3	532.8	555.4	576.0	602.7	627.4	652.1	687.1	705.6	699.4
50°	483.4	487.5	506.0	530.7	561.6	594.5	627.4	654.2	687.1	699.4	689.1
52.5°	481.4	481.4	504.0	541.0	584.2	629.5	672.7	709.7	740.6	740.6	720.0
55°	452.6	456.7	485.5	534.8	600.7	674.7	750.8	820.8	861.9	853.7	814.6
57.5°	411.4	413.5	444.3	491.6	561.6	652.1	755.0	843.4	892.8	903.1	861.9
60°	386.7	388.8	409.4	454.6	514.3	586.3	680.9	750.8	800.2	831.1	798.2
62.5°	366.2	366.2	386.7	417.6	467.0	520.4	573.9	621.2	660.3	683.0	664.4
65°	343.5	343.5	357.9	386.7	425.8	477.2	518.4	553.4	588.3	604.8	588.3
67.5°	320.9	320.9	335.3	362.1	397.0	440.2	481.4	514.3	549.2	561.6	549.2
70°	298.3	298.3	312.7	335.3	368.2	409.4	440.2	475.2	508.1	516.3	506.0
72.5°	275.7	275.7	290.1	310.6	339.4	378.5	407.3	434.0	464.9	471.1	460.8
75°	255.1	255.1	265.4	285.9	312.7	347.7	376.5	401.1	425.8	425.8	417.6
77.5°	232.5	234.5	242.7	261.3	285.9	318.9	345.6	368.2	388.8	388.8	378.5
80°	209.8	211.9	220.1	236.6	259.2	290.1	314.7	335.3	353.8	353.8	343.5
82.5°	187.2	189.3	197.5	211.9	232.5	261.3	285.9	306.5	323.0	320.9	310.6
85°	166.6	168.7	174.9	187.2	205.7	234.5	257.1	275.7	290.1	288.0	279.8
87.5°	146.1	148.1	154.3	164.6	181.0	207.8	230.4	246.9	259.2	257.1	248.9
90°	127.5	127.5	133.7	144.0	158.4	181.0	201.6	216.0	228.3	224.2	216.0
92.5°	111.1	113.1	117.3	125.5	137.8	158.4	176.9	189.3	201.6	199.5	191.3
95°	98.7	98.7	102.9	109.0	119.3	135.8	154.3	164.6	172.8	172.8	166.6
97.5°	86.4	88.5	90.5	94.6	102.9	115.2	129.6	139.9	146.1	146.1	141.9
100°	78.2	80.2	80.2	84.3	88.5	96.7	107.0	115.2	121.4	121.4	119.3
102.5°	74.1	74.1	74.1	76.1	78.2	82.3	88.5	92.6	96.7	98.7	96.7
105°	69.9	69.9	69.9	72.0	72.0	76.1	78.2	82.3	84.3	84.3	82.3
107.5°	67.9	67.9	69.9	69.9	69.9	72.0	76.1	76.1	78.2	76.1	76.1
110°	69.9	69.9	69.9	69.9	69.9	72.0	74.1	74.1	74.1	74.1	72.0

REPORT NUMBER: P691390

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	72.0	72.0	72.0	72.0	74.1	74.1	74.1	76.1	76.1	74.1	74.1
115°	78.2	78.2	78.2	78.2	78.2	80.2	80.2	80.2	80.2	78.2	76.1
117.5°	84.3	84.3	84.3	86.4	86.4	88.5	86.4	88.5	86.4	84.3	84.3
120°	94.6	94.6	96.7	98.7	100.8	100.8	98.7	100.8	100.8	96.7	94.6
122.5°	107.0	107.0	109.0	115.2	117.3	119.3	117.3	117.3	117.3	113.1	111.1
125°	119.3	121.4	125.5	133.7	139.9	144.0	139.9	141.9	141.9	135.8	133.7
127.5°	133.7	135.8	144.0	156.3	166.6	170.7	168.7	170.7	172.8	162.5	158.4
130°	148.1	148.1	160.5	179.0	193.4	199.5	201.6	203.7	205.7	195.4	187.2
132.5°	160.5	160.5	176.9	199.5	218.1	228.3	232.5	236.6	240.7	226.3	216.0
135°	168.7	170.7	191.3	218.1	240.7	255.1	261.3	265.4	271.5	255.1	242.7
137.5°	174.9	179.0	199.5	228.3	253.0	273.6	285.9	292.1	296.2	279.8	263.3
140°	176.9	179.0	201.6	230.4	255.1	277.7	296.2	306.5	308.6	292.1	275.7
142.5°	170.7	174.9	195.4	224.2	248.9	273.6	294.2	304.5	306.5	292.1	275.7
145°	162.5	164.6	183.1	209.8	234.5	261.3	283.9	294.2	294.2	281.8	265.4
147.5°	148.1	150.2	166.6	189.3	213.9	240.7	263.3	273.6	275.7	263.3	248.9
150°	127.5	129.6	141.9	160.5	185.1	211.9	232.5	244.8	244.8	232.5	222.2
152.5°	102.9	104.9	115.2	129.6	150.2	174.9	193.4	205.7	205.7	197.5	185.1
155°	80.2	80.2	88.5	100.8	115.2	133.7	148.1	158.4	160.5	152.2	144.0
157.5°	57.6	57.6	63.8	74.1	86.4	100.8	111.1	119.3	119.3	113.1	109.0
160°	39.1	39.1	43.2	49.4	57.6	67.9	76.1	84.3	84.3	80.2	76.1
162.5°	20.6	20.6	24.7	28.8	35.0	43.2	47.3	53.5	53.5	51.4	49.4
165°	6.2	6.2	8.2	10.3	14.4	18.5	20.6	24.7	26.7	24.7	22.6
167.5°	0.0	0.0	2.1	2.1	2.1	2.1	4.1	6.2	6.2	6.2	6.2
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: P691390

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6	4451.6
2.5°	4091.6	4221.2	4338.4	4459.8	4610.0	4741.6	4883.6	4984.4	5027.6	5027.6	5044.0
5°	3834.4	3925.0	4019.6	4126.6	4305.5	4525.6	4778.7	4986.4	5105.7	5124.2	5122.2
7.5°	3408.6	3470.3	3567.0	3686.3	3850.9	4048.4	4373.4	4698.4	4914.4	4953.5	4939.1
10°	3034.2	3091.8	3149.4	3194.7	3311.9	3468.3	3706.9	4023.7	4272.6	4311.7	4280.8
12.5°	2842.9	2861.4	2859.4	2886.1	2933.4	3011.6	3133.0	3316.1	3486.8	3523.8	3497.1
15°	2742.1	2715.4	2674.2	2626.9	2622.8	2635.2	2666.0	2740.1	2812.1	2842.9	2822.3
17.5°	2701.0	2637.2	2552.9	2460.3	2398.6	2341.0	2301.9	2277.2	2287.5	2289.6	2273.1
20°	2604.3	2528.2	2392.4	2260.8	2162.0	2061.2	1974.8	1911.0	1900.8	1890.5	1878.1
22.5°	2495.3	2365.7	2203.2	2042.7	1896.7	1762.9	1666.3	1590.1	1561.3	1571.6	1565.5
25°	2472.6	2256.6	2059.2	1800.0	1614.8	1464.7	1283.6	1160.2	1104.7	1135.5	1115.0
27.5°	1483.2	1489.3	1378.3	1221.9	1088.2	999.8	919.5	853.7	816.7	816.7	820.8
30°	1343.3	1283.6	1209.6	1112.9	995.6	907.2	818.7	746.7	707.6	697.4	701.5
32.5°	1228.1	1186.9	1117.0	1024.4	917.5	827.0	734.4	668.6	631.5	629.5	627.4
35°	1104.7	1061.5	1003.9	923.6	831.1	746.7	666.5	608.9	576.0	578.0	578.0
37.5°	1020.3	981.2	929.8	853.7	769.4	685.0	613.0	559.5	532.8	532.8	530.7
40°	977.1	931.9	876.3	806.4	728.2	639.8	571.9	520.4	497.8	497.8	495.8
42.5°	882.5	843.4	806.4	734.4	656.2	584.2	520.4	475.2	452.6	452.6	452.6
45°	748.8	726.2	697.4	648.0	584.2	524.6	471.1	427.9	409.4	407.3	407.3
47.5°	691.2	666.5	631.5	586.3	534.8	479.3	427.9	397.0	378.5	378.5	378.5
50°	674.7	645.9	598.6	545.1	491.6	442.3	397.0	368.2	351.8	351.8	353.8
52.5°	697.4	650.0	586.3	520.4	464.9	409.4	370.3	341.5	329.1	329.1	327.1
55°	775.5	687.1	594.5	514.3	444.3	384.7	343.5	312.7	298.3	298.3	298.3
57.5°	818.7	713.8	600.7	506.0	425.8	366.2	323.0	290.1	275.7	275.7	275.7
60°	769.4	683.0	576.0	489.6	411.4	349.7	304.5	273.6	259.2	257.1	255.1
62.5°	643.9	590.4	514.3	442.3	380.6	327.1	290.1	259.2	244.8	244.8	242.7
65°	573.9	528.7	462.8	401.1	349.7	304.5	269.5	244.8	230.4	228.3	228.3
67.5°	534.8	493.7	427.9	370.3	323.0	281.8	248.9	226.3	216.0	211.9	211.9
70°	491.6	446.4	388.8	337.4	294.2	257.1	230.4	207.8	197.5	195.4	193.4
72.5°	448.4	407.3	353.8	304.5	265.4	234.5	209.8	189.3	179.0	176.9	176.9
75°	403.2	364.1	312.7	271.5	238.6	209.8	187.2	170.7	162.5	160.5	158.4
77.5°	366.2	331.2	281.8	242.7	211.9	189.3	168.7	154.3	146.1	146.1	144.0
80°	331.2	298.3	251.0	216.0	189.3	166.6	150.2	137.8	131.7	129.6	129.6
82.5°	298.3	265.4	222.2	191.3	166.6	148.1	131.7	121.4	115.2	115.2	115.2
85°	267.4	236.6	197.5	168.7	146.1	129.6	115.2	104.9	100.8	98.7	100.8
87.5°	236.6	207.8	174.9	148.1	127.5	111.1	98.7	90.5	86.4	86.4	86.4
90°	207.8	181.0	150.2	125.5	109.0	94.6	84.3	76.1	74.1	72.0	72.0
92.5°	183.1	160.5	133.7	113.1	96.7	86.4	76.1	69.9	65.8	65.8	65.8
95°	160.5	139.9	119.3	100.8	88.5	78.2	69.9	63.8	61.7	61.7	61.7
97.5°	137.8	121.4	104.9	90.5	80.2	72.0	63.8	59.7	57.6	55.5	57.6
100°	115.2	102.9	90.5	80.2	72.0	63.8	57.6	53.5	51.4	51.4	51.4
102.5°	92.6	86.4	76.1	67.9	61.7	57.6	51.4	47.3	45.3	45.3	45.3
105°	80.2	74.1	67.9	61.7	57.6	51.4	47.3	43.2	41.1	41.1	41.1
107.5°	74.1	69.9	63.8	59.7	53.5	49.4	45.3	39.1	37.0	37.0	37.0
110°	72.0	67.9	63.8	57.6	53.5	49.4	45.3	37.0	35.0	35.0	35.0

REPORT NUMBER: P691390

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	72.0	67.9	63.8	59.7	55.5	49.4	45.3	37.0	32.9	32.9	32.9
115°	76.1	72.0	67.9	63.8	57.6	51.4	47.3	37.0	32.9	32.9	32.9
117.5°	82.3	78.2	74.1	67.9	61.7	55.5	47.3	37.0	35.0	35.0	35.0
120°	92.6	88.5	82.3	76.1	67.9	59.7	51.4	39.1	32.9	35.0	35.0
122.5°	107.0	102.9	94.6	84.3	76.1	65.8	53.5	41.1	30.9	35.0	35.0
125°	127.5	121.4	109.0	96.7	84.3	72.0	57.6	43.2	32.9	37.0	37.0
127.5°	150.2	141.9	125.5	109.0	94.6	78.2	61.7	45.3	35.0	37.0	37.0
130°	176.9	162.5	141.9	121.4	102.9	84.3	65.8	47.3	37.0	37.0	37.0
132.5°	203.7	183.1	156.3	133.7	111.1	88.5	67.9	47.3	37.0	37.0	37.0
135°	226.3	201.6	170.7	141.9	115.2	90.5	69.9	47.3	37.0	37.0	37.0
137.5°	246.9	213.9	179.0	146.1	117.3	90.5	67.9	47.3	35.0	35.0	35.0
140°	257.1	220.1	183.1	146.1	115.2	88.5	63.8	43.2	32.9	32.9	32.9
142.5°	257.1	218.1	179.0	141.9	111.1	84.3	59.7	41.1	28.8	30.9	30.9
145°	248.9	209.8	170.7	133.7	102.9	76.1	53.5	35.0	26.7	26.7	26.7
147.5°	230.4	193.4	156.3	121.4	92.6	65.8	47.3	30.9	22.6	20.6	22.6
150°	205.7	170.7	135.8	104.9	78.2	55.5	39.1	24.7	18.5	18.5	18.5
152.5°	172.8	141.9	113.1	86.4	61.7	43.2	28.8	18.5	14.4	14.4	14.4
155°	135.8	111.1	88.5	65.8	47.3	32.9	22.6	14.4	10.3	10.3	10.3
157.5°	102.9	84.3	65.8	47.3	35.0	24.7	16.5	10.3	8.2	8.2	8.2
160°	72.0	57.6	45.3	32.9	22.6	16.5	10.3	6.2	4.1	4.1	4.1
162.5°	45.3	37.0	28.8	18.5	14.4	10.3	6.2	4.1	2.1	2.1	2.1
165°	20.6	18.5	12.3	8.2	6.2	4.1	2.1	2.1	0.0	0.0	0.0
167.5°	6.2	4.1	4.1	2.1	2.1	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

(END OF REPORT)