

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: P691482

Luminaire Tested: **CRTK2-C016-D-U-T2-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691482
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-D-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: 4883 lumens
Efficiency: N/A
Efficacy: 117.4 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): 41.6
Input Voltage (V): NR
Input Current (A_{in}): 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

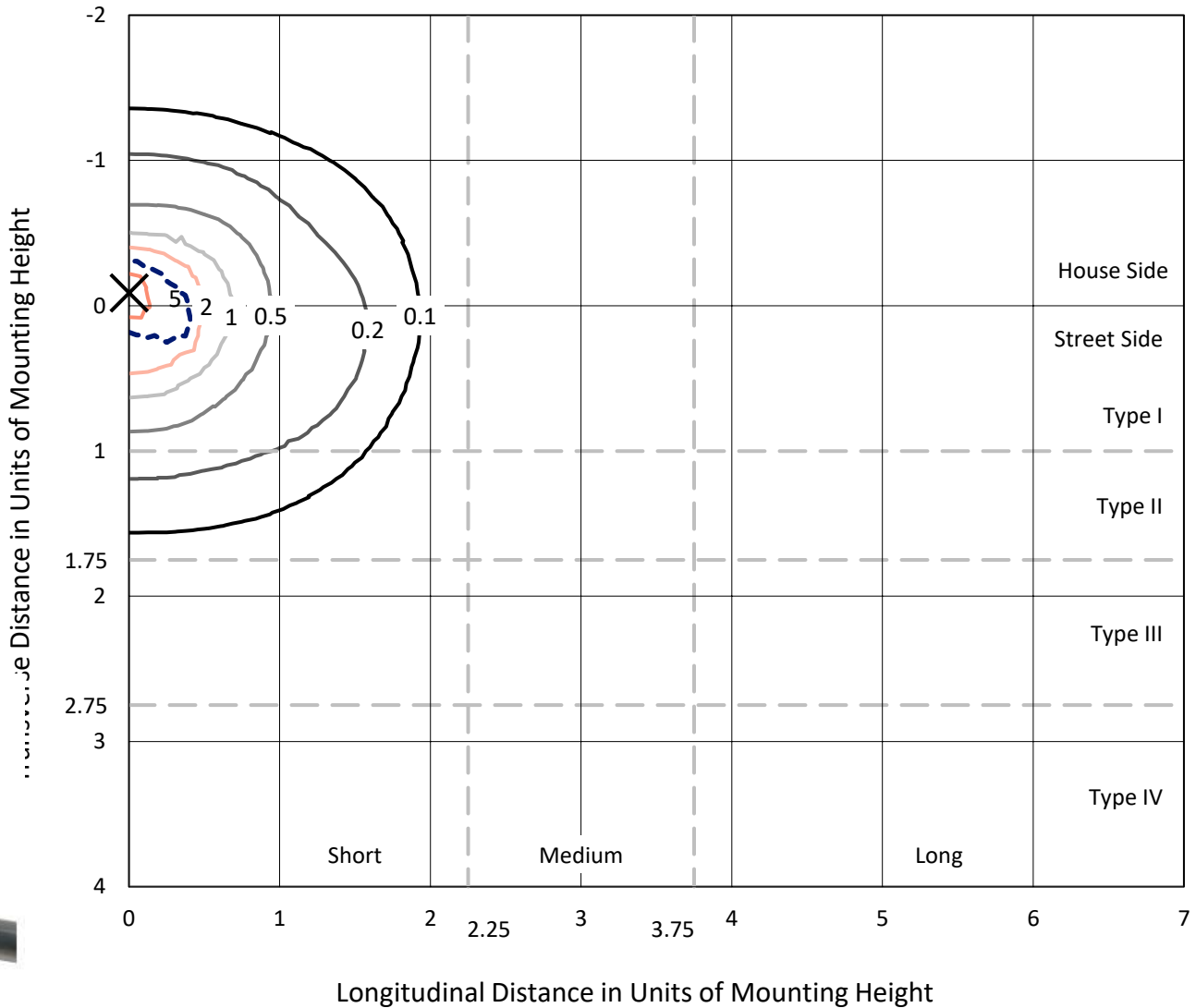


REPORT NUMBER: P691482

CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

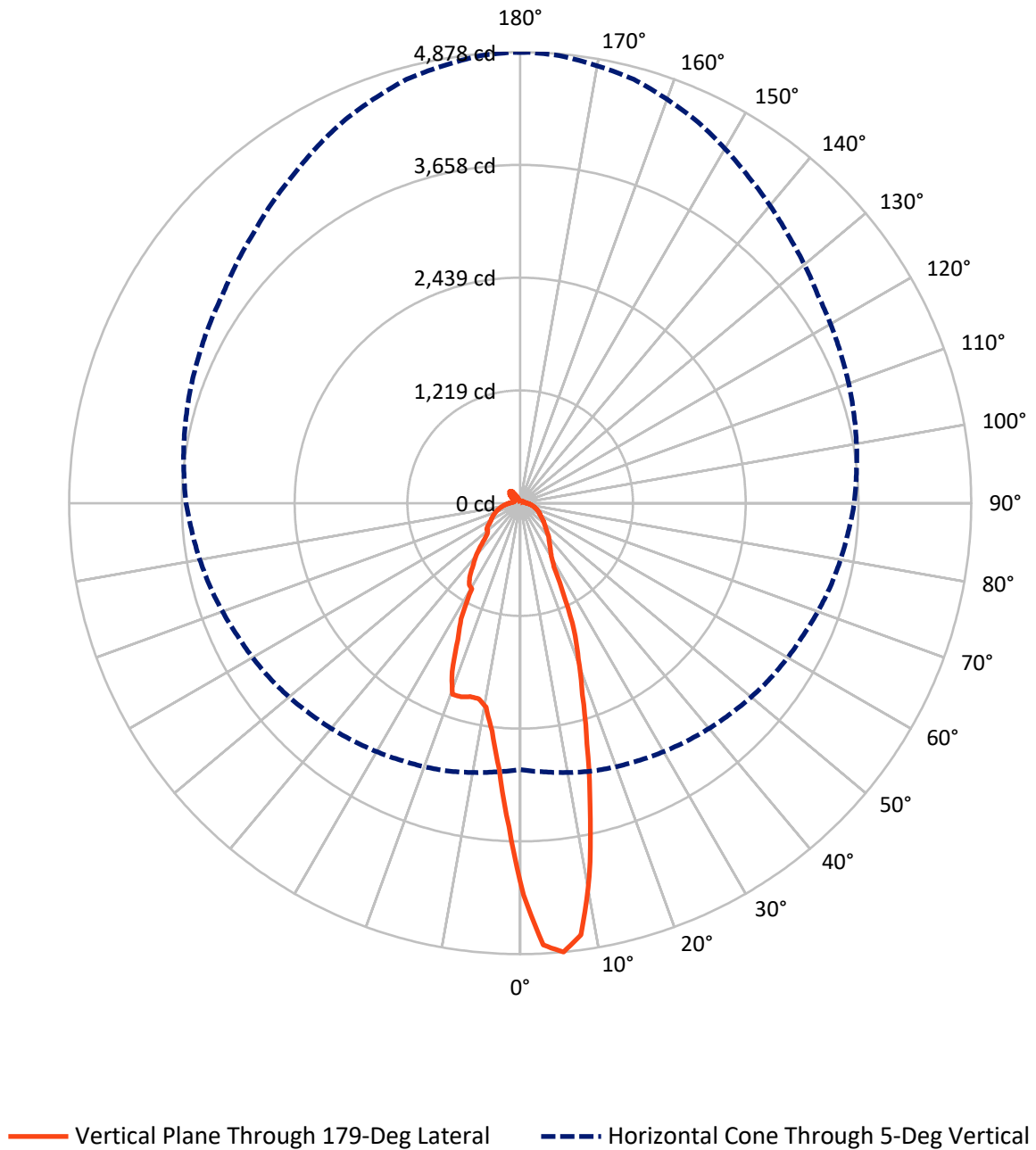


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type I - Short - N/A

REPORT NUMBER: P691482

CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P691482

CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5

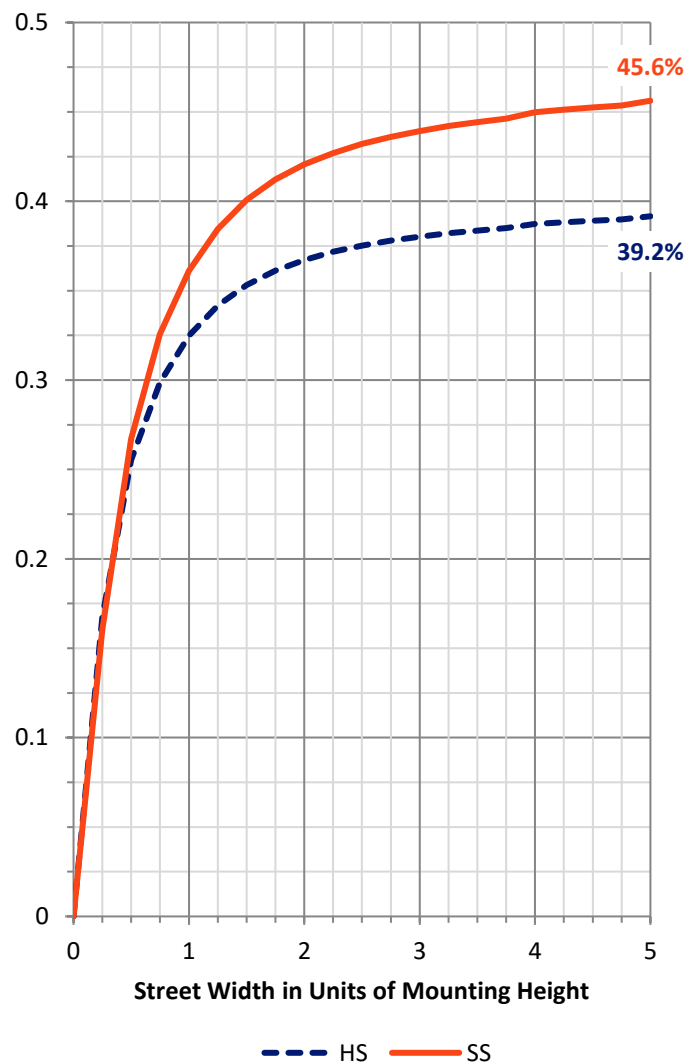
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1965.0	238.9	2203.9
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	2280.7	398.4	2679.1
	% Fixture	46.7	8.2	54.9
Total	Lumens	4245.7	637.3	4883.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.3	6.8
10°-20°	706.8	14.5
20°-30°	767.8	15.7
30°-40°	568.3	11.6
40°-50°	476.0	9.7
50°-60°	478.5	9.8
60°-70°	407.4	8.3
70°-80°	304.3	6.2
80°-90°	205.4	4.2
90°-100°	122.8	2.5
100°-110°	70.9	1.5
110°-120°	65.3	1.3
120°-130°	94.4	1.9
130°-140°	129.2	2.6
140°-150°	106.5	2.2
150°-160°	42.9	0.9
160°-170°	5.3	0.1
170°-180°	0.0	0.0
0°-90°	4245.7	86.9
0°-180°	4883.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691482

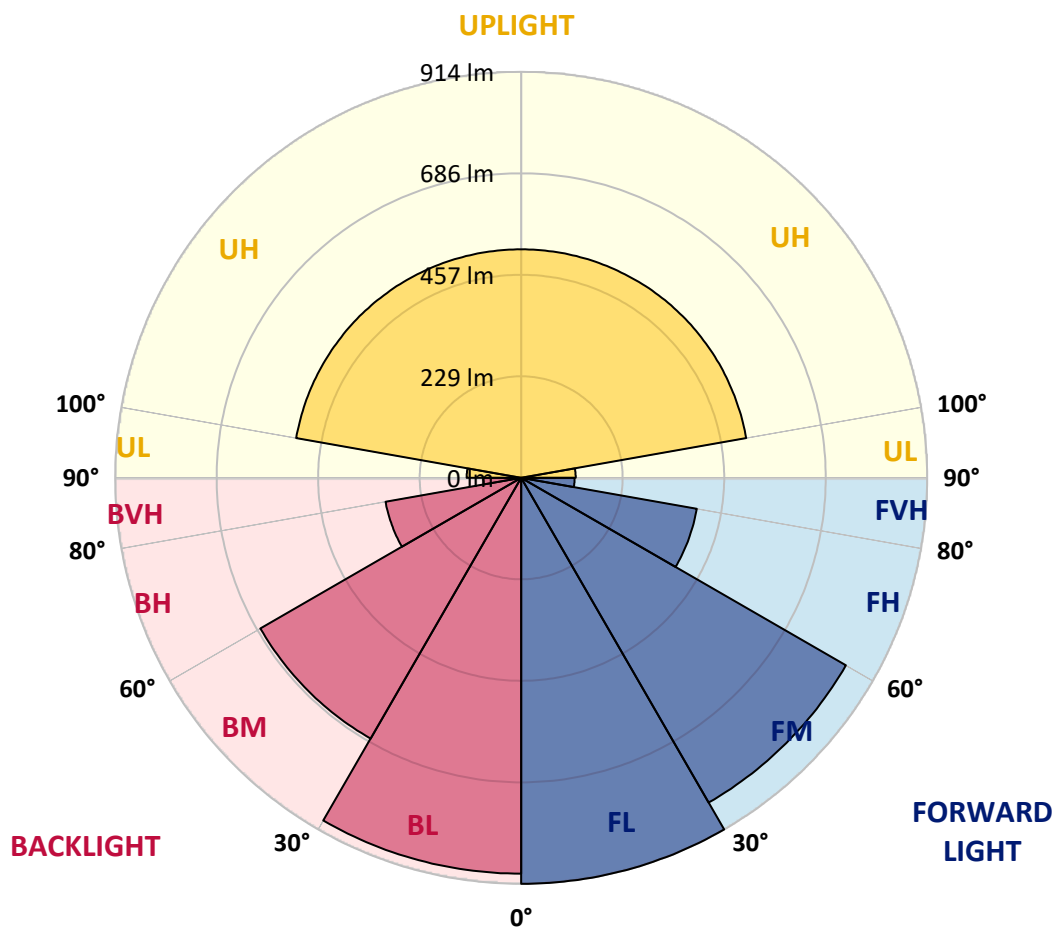
CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	914.4	18.7			
FM	(30°-60°)	844.4	17.3			
FH	(60°-80°)	401.6	8.2			G0/660
FVH	(80°-90°)	120.3	2.5			G2/225
BL	(0°-30°)	891.5	18.3	B2/1000		
BM	(30°-60°)	678.3	13.9	B1/1000		
BH	(60°-80°)	310.0	6.3	B1/500		G1/500
BVH	(80°-90°)	85.1	1.7			G1/100
UL	(90°-100°)	122.8	2.5		U3/500	
UH	(100°-180°)	514.5	10.5		U4/1000	

BUG Rating: B2-U4-G2

Type I Short



REPORT NUMBER: P691482

CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2
2.5°	3493.2	3512.8	3555.8	3577.4	3598.9	3626.3	3667.4	3698.8	3771.2	3837.8	3865.2
5°	2882.3	2917.5	2999.7	3066.3	3140.7	3219.0	3303.2	3377.7	3473.6	3561.7	3612.6
7.5°	2476.9	2506.3	2604.2	2733.4	2864.6	2974.3	3060.4	3117.2	3160.3	3195.6	3232.8
10°	2230.2	2255.7	2353.6	2469.1	2580.7	2682.5	2755.0	2809.8	2825.5	2860.7	2878.3
12.5°	2159.7	2171.5	2240.0	2320.3	2388.8	2488.7	2574.8	2633.6	2659.0	2690.4	2700.2
15°	2161.7	2161.7	2200.9	2251.8	2314.4	2390.8	2486.7	2557.2	2594.4	2612.0	2610.1
17.5°	2191.1	2189.1	2206.7	2247.9	2300.7	2377.1	2475.0	2547.4	2590.5	2596.4	2590.5
20°	2191.1	2193.0	2198.9	2245.9	2296.8	2365.3	2465.2	2525.9	2559.2	2541.6	2522.0
22.5°	1967.8	1965.9	2016.8	2116.7	2253.7	2396.7	2486.7	2561.1	2569.0	2504.4	2451.5
25°	1625.2	1611.5	1640.9	1685.9	1777.9	1944.4	2132.3	2414.3	2582.7	2545.5	2465.2
27.5°	1409.8	1392.2	1417.6	1398.1	1388.3	1376.5	1364.8	1331.5	1353.0	1372.6	1458.8
30°	1063.2	1067.1	1073.0	1084.8	1108.3	1155.3	1204.2	1233.6	1259.0	1309.9	1304.1
32.5°	1039.7	1037.8	1039.7	1051.5	1063.2	1092.6	1122.0	1137.6	1157.2	1206.2	1194.4
35°	961.4	957.5	971.2	977.1	975.1	982.9	1012.3	1029.9	1047.6	1078.9	1067.1
37.5°	845.9	849.8	879.2	894.8	900.7	918.3	941.8	957.5	979.0	1002.5	996.7
40°	759.7	757.8	789.1	810.6	824.3	851.8	887.0	910.5	945.7	965.3	951.6
42.5°	654.0	661.8	685.3	706.9	710.8	724.5	755.8	783.2	826.3	855.7	847.8
45°	550.2	556.1	575.7	593.3	607.0	624.6	648.1	671.6	706.9	730.4	728.4
47.5°	485.6	491.5	507.1	528.7	548.3	573.7	597.2	620.7	654.0	671.6	665.7
50°	460.1	464.1	481.7	505.2	534.5	565.9	597.2	622.7	654.0	665.7	655.9
52.5°	458.2	458.2	479.7	515.0	556.1	599.2	640.3	675.5	704.9	704.9	685.3
55°	430.8	434.7	462.1	509.1	571.8	642.2	714.7	781.3	820.4	812.6	775.4
57.5°	391.6	393.6	422.9	468.0	534.5	620.7	718.6	802.8	849.8	859.6	820.4
60°	368.1	370.1	389.7	432.7	489.5	558.0	648.1	714.7	761.7	791.1	759.7
62.5°	348.5	348.5	368.1	397.5	444.5	495.4	546.3	591.3	628.5	650.1	632.5
65°	327.0	327.0	340.7	368.1	405.3	454.3	493.4	526.7	560.0	575.7	560.0
67.5°	305.5	305.5	319.2	344.6	377.9	419.0	458.2	489.5	522.8	534.5	522.8
70°	283.9	283.9	297.6	319.2	350.5	389.7	419.0	452.3	483.6	491.5	481.7
72.5°	262.4	262.4	276.1	295.7	323.1	360.3	387.7	413.2	442.5	448.4	438.6
75°	242.8	242.8	252.6	272.2	297.6	330.9	358.3	381.8	405.3	405.3	397.5
77.5°	221.3	223.2	231.1	248.7	272.2	303.5	329.0	350.5	370.1	370.1	360.3
80°	199.7	201.7	209.5	225.2	246.7	276.1	299.6	319.2	336.8	336.8	327.0
82.5°	178.2	180.1	188.0	201.7	221.3	248.7	272.2	291.8	307.4	305.5	295.7
85°	158.6	160.6	166.4	178.2	195.8	223.2	244.8	262.4	276.1	274.1	266.3
87.5°	139.0	141.0	146.9	156.6	172.3	197.8	219.3	235.0	246.7	244.8	236.9
90°	121.4	121.4	127.3	137.1	150.8	172.3	191.9	205.6	217.3	213.4	205.6
92.5°	105.7	107.7	111.6	119.4	131.2	150.8	168.4	180.1	191.9	189.9	182.1
95°	94.0	94.0	97.9	103.8	113.6	129.2	146.9	156.6	164.5	164.5	158.6
97.5°	82.2	84.2	86.2	90.1	97.9	109.7	123.4	133.1	139.0	139.0	135.1
100°	74.4	76.4	76.4	80.3	84.2	92.0	101.8	109.7	115.5	115.5	113.6
102.5°	70.5	70.5	70.5	72.4	74.4	78.3	84.2	88.1	92.0	94.0	92.0
105°	66.6	66.6	66.6	68.5	68.5	72.4	74.4	78.3	80.3	80.3	78.3
107.5°	64.6	64.6	66.6	66.6	66.6	68.5	72.4	72.4	74.4	72.4	72.4
110°	66.6	66.6	66.6	66.6	66.6	68.5	70.5	70.5	70.5	70.5	68.5

REPORT NUMBER: P691482

CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	68.5	68.5	68.5	68.5	70.5	70.5	70.5	72.4	72.4	70.5	70.5
115°	74.4	74.4	74.4	74.4	74.4	76.4	76.4	76.4	76.4	74.4	72.4
117.5°	80.3	80.3	80.3	82.2	82.2	84.2	82.2	84.2	82.2	80.3	80.3
120°	90.1	90.1	92.0	94.0	95.9	95.9	94.0	95.9	95.9	92.0	90.1
122.5°	101.8	101.8	103.8	109.7	111.6	113.6	111.6	111.6	111.6	107.7	105.7
125°	113.6	115.5	119.4	127.3	133.1	137.1	133.1	135.1	135.1	129.2	127.3
127.5°	127.3	129.2	137.1	148.8	158.6	162.5	160.6	162.5	164.5	154.7	150.8
130°	141.0	141.0	152.7	170.4	184.1	189.9	191.9	193.8	195.8	186.0	178.2
132.5°	152.7	152.7	168.4	189.9	207.6	217.3	221.3	225.2	229.1	215.4	205.6
135°	160.6	162.5	182.1	207.6	229.1	242.8	248.7	252.6	258.5	242.8	231.1
137.5°	166.4	170.4	189.9	217.3	240.8	260.4	272.2	278.0	282.0	266.3	250.6
140°	168.4	170.4	191.9	219.3	242.8	264.3	282.0	291.8	293.7	278.0	262.4
142.5°	162.5	166.4	186.0	213.4	236.9	260.4	280.0	289.8	291.8	278.0	262.4
145°	154.7	156.6	174.3	199.7	223.2	248.7	270.2	280.0	280.0	268.3	252.6
147.5°	141.0	142.9	158.6	180.1	203.6	229.1	250.6	260.4	262.4	250.6	236.9
150°	121.4	123.4	135.1	152.7	176.2	201.7	221.3	233.0	233.0	221.3	211.5
152.5°	97.9	99.9	109.7	123.4	142.9	166.4	184.1	195.8	195.8	188.0	176.2
155°	76.4	76.4	84.2	95.9	109.7	127.3	141.0	150.8	152.7	144.9	137.1
157.5°	54.8	54.8	60.7	70.5	82.2	95.9	105.7	113.6	113.6	107.7	103.8
160°	37.2	37.2	41.1	47.0	54.8	64.6	72.4	80.3	80.3	76.4	72.4
162.5°	19.6	19.6	23.5	27.4	33.3	41.1	45.0	50.9	50.9	49.0	47.0
165°	5.9	5.9	7.8	9.8	13.7	17.6	19.6	23.5	25.5	23.5	21.5
167.5°	0.0	0.0	2.0	2.0	2.0	2.0	3.9	5.9	5.9	5.9	5.9
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: P691482

CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2	4237.2
2.5°	3894.6	4017.9	4129.5	4245.1	4388.0	4513.3	4648.4	4744.4	4785.5	4785.5	4801.2
5°	3649.8	3736.0	3826.0	3927.9	4098.2	4307.7	4548.6	4746.3	4859.9	4877.5	4875.6
7.5°	3244.5	3303.2	3395.3	3508.8	3665.5	3853.5	4162.8	4472.2	4677.8	4715.0	4701.3
10°	2888.1	2943.0	2997.8	3040.9	3152.5	3301.3	3528.4	3830.0	4066.9	4104.1	4074.7
12.5°	2706.0	2723.7	2721.7	2747.2	2792.2	2866.6	2982.1	3156.4	3318.9	3354.2	3328.7
15°	2610.1	2584.6	2545.5	2500.4	2496.5	2508.3	2537.6	2608.1	2676.7	2706.0	2686.5
17.5°	2570.9	2510.2	2430.0	2341.8	2283.1	2228.3	2191.1	2167.6	2177.4	2179.3	2163.7
20°	2478.9	2406.5	2277.2	2151.9	2057.9	1962.0	1879.7	1819.0	1809.2	1799.5	1787.7
22.5°	2375.1	2251.8	2097.1	1944.4	1805.3	1678.1	1586.0	1513.6	1486.2	1496.0	1490.1
25°	2353.6	2148.0	1960.0	1713.3	1537.1	1394.1	1221.8	1104.3	1051.5	1080.8	1061.3
27.5°	1411.8	1417.6	1311.9	1163.1	1035.8	951.6	875.3	812.6	777.3	777.3	781.3
30°	1278.6	1221.8	1151.3	1059.3	947.7	863.5	779.3	710.8	673.6	663.8	667.7
32.5°	1169.0	1129.8	1063.2	975.1	873.3	787.1	699.0	636.4	601.1	599.2	597.2
35°	1051.5	1010.4	955.5	879.2	791.1	710.8	634.4	579.6	548.3	550.2	550.2
37.5°	971.2	934.0	885.0	812.6	732.3	652.0	583.5	532.6	507.1	507.1	505.2
40°	930.1	887.0	834.1	767.6	693.2	609.0	544.3	495.4	473.9	473.9	471.9
42.5°	840.0	802.8	767.6	699.0	624.6	556.1	495.4	452.3	430.8	430.8	430.8
45°	712.7	691.2	663.8	616.8	556.1	499.3	448.4	407.3	389.7	387.7	387.7
47.5°	657.9	634.4	601.1	558.0	509.1	456.2	407.3	377.9	360.3	360.3	360.3
50°	642.2	614.8	569.8	518.9	468.0	421.0	377.9	350.5	334.8	334.8	336.8
52.5°	663.8	618.7	558.0	495.4	442.5	389.7	352.5	325.0	313.3	313.3	311.3
55°	738.2	654.0	565.9	489.5	422.9	366.2	327.0	297.6	283.9	283.9	283.9
57.5°	779.3	679.4	571.8	481.7	405.3	348.5	307.4	276.1	262.4	262.4	262.4
60°	732.3	650.1	548.3	466.0	391.6	332.9	289.8	260.4	246.7	244.8	242.8
62.5°	612.9	562.0	489.5	421.0	362.2	311.3	276.1	246.7	233.0	233.0	231.1
65°	546.3	503.2	440.6	381.8	332.9	289.8	256.5	233.0	219.3	217.3	217.3
67.5°	509.1	469.9	407.3	352.5	307.4	268.3	236.9	215.4	205.6	201.7	201.7
70°	468.0	424.9	370.1	321.1	280.0	244.8	219.3	197.8	188.0	186.0	184.1
72.5°	426.9	387.7	336.8	289.8	252.6	223.2	199.7	180.1	170.4	168.4	168.4
75°	383.8	346.6	297.6	258.5	227.1	199.7	178.2	162.5	154.7	152.7	150.8
77.5°	348.5	315.2	268.3	231.1	201.7	180.1	160.6	146.9	139.0	139.0	137.1
80°	315.2	283.9	238.9	205.6	180.1	158.6	142.9	131.2	125.3	123.4	123.4
82.5°	283.9	252.6	211.5	182.1	158.6	141.0	125.3	115.5	109.7	109.7	109.7
85°	254.5	225.2	188.0	160.6	139.0	123.4	109.7	99.9	95.9	94.0	95.9
87.5°	225.2	197.8	166.4	141.0	121.4	105.7	94.0	86.2	82.2	82.2	82.2
90°	197.8	172.3	142.9	119.4	103.8	90.1	80.3	72.4	70.5	68.5	68.5
92.5°	174.3	152.7	127.3	107.7	92.0	82.2	72.4	66.6	62.7	62.7	62.7
95°	152.7	133.1	113.6	95.9	84.2	74.4	66.6	60.7	58.7	58.7	58.7
97.5°	131.2	115.5	99.9	86.2	76.4	68.5	60.7	56.8	54.8	52.9	54.8
100°	109.7	97.9	86.2	76.4	68.5	60.7	54.8	50.9	49.0	49.0	49.0
102.5°	88.1	82.2	72.4	64.6	58.7	54.8	49.0	45.0	43.1	43.1	43.1
105°	76.4	70.5	64.6	58.7	54.8	49.0	45.0	41.1	39.2	39.2	39.2
107.5°	70.5	66.6	60.7	56.8	50.9	47.0	43.1	37.2	35.2	35.2	35.2
110°	68.5	64.6	60.7	54.8	50.9	47.0	43.1	35.2	33.3	33.3	33.3

REPORT NUMBER: P691482

CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	68.5	64.6	60.7	56.8	52.9	47.0	43.1	35.2	31.3	31.3	31.3
115°	72.4	68.5	64.6	60.7	54.8	49.0	45.0	35.2	31.3	31.3	31.3
117.5°	78.3	74.4	70.5	64.6	58.7	52.9	45.0	35.2	33.3	33.3	33.3
120°	88.1	84.2	78.3	72.4	64.6	56.8	49.0	37.2	31.3	33.3	33.3
122.5°	101.8	97.9	90.1	80.3	72.4	62.7	50.9	39.2	29.4	33.3	33.3
125°	121.4	115.5	103.8	92.0	80.3	68.5	54.8	41.1	31.3	35.2	35.2
127.5°	142.9	135.1	119.4	103.8	90.1	74.4	58.7	43.1	33.3	35.2	35.2
130°	168.4	154.7	135.1	115.5	97.9	80.3	62.7	45.0	35.2	35.2	35.2
132.5°	193.8	174.3	148.8	127.3	105.7	84.2	64.6	45.0	35.2	35.2	35.2
135°	215.4	191.9	162.5	135.1	109.7	86.2	66.6	45.0	35.2	35.2	35.2
137.5°	235.0	203.6	170.4	139.0	111.6	86.2	64.6	45.0	33.3	33.3	33.3
140°	244.8	209.5	174.3	139.0	109.7	84.2	60.7	41.1	31.3	31.3	31.3
142.5°	244.8	207.6	170.4	135.1	105.7	80.3	56.8	39.2	27.4	29.4	29.4
145°	236.9	199.7	162.5	127.3	97.9	72.4	50.9	33.3	25.5	25.5	25.5
147.5°	219.3	184.1	148.8	115.5	88.1	62.7	45.0	29.4	21.5	19.6	21.5
150°	195.8	162.5	129.2	99.9	74.4	52.9	37.2	23.5	17.6	17.6	17.6
152.5°	164.5	135.1	107.7	82.2	58.7	41.1	27.4	17.6	13.7	13.7	13.7
155°	129.2	105.7	84.2	62.7	45.0	31.3	21.5	13.7	9.8	9.8	9.8
157.5°	97.9	80.3	62.7	45.0	33.3	23.5	15.7	9.8	7.8	7.8	7.8
160°	68.5	54.8	43.1	31.3	21.5	15.7	9.8	5.9	3.9	3.9	3.9
162.5°	43.1	35.2	27.4	17.6	13.7	9.8	5.9	3.9	2.0	2.0	2.0
165°	19.6	17.6	11.7	7.8	5.9	3.9	2.0	2.0	0.0	0.0	0.0
167.5°	5.9	3.9	3.9	2.0	2.0	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

(END OF REPORT)