

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: P690870

Luminaire Tested: **CRTK2-C01-5TLD-U-T3-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-15)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C01-5TLD-U-T3-7040-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7254 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

Input Watts (W): 60
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

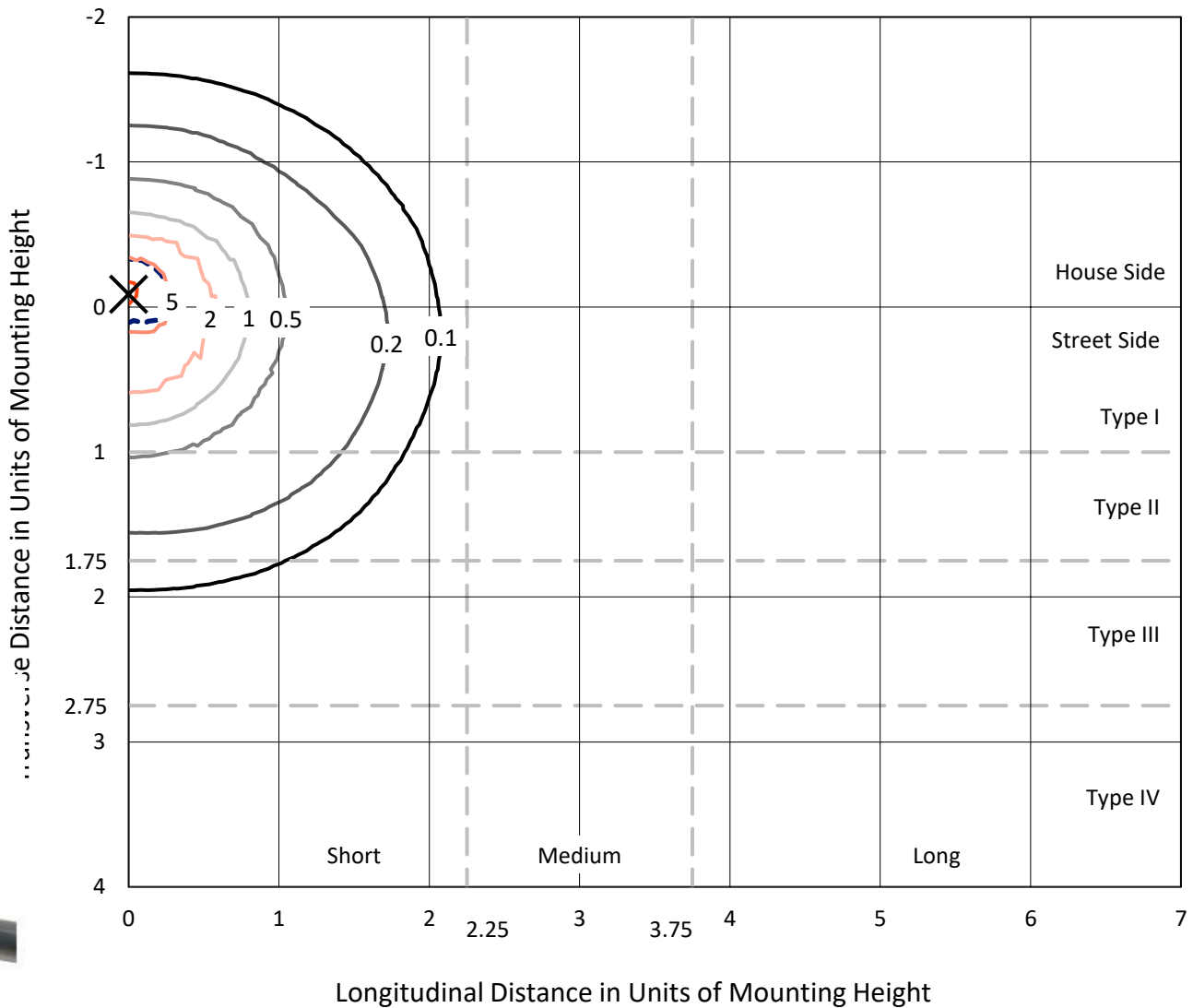


REPORT NUMBER: P690870

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7040-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

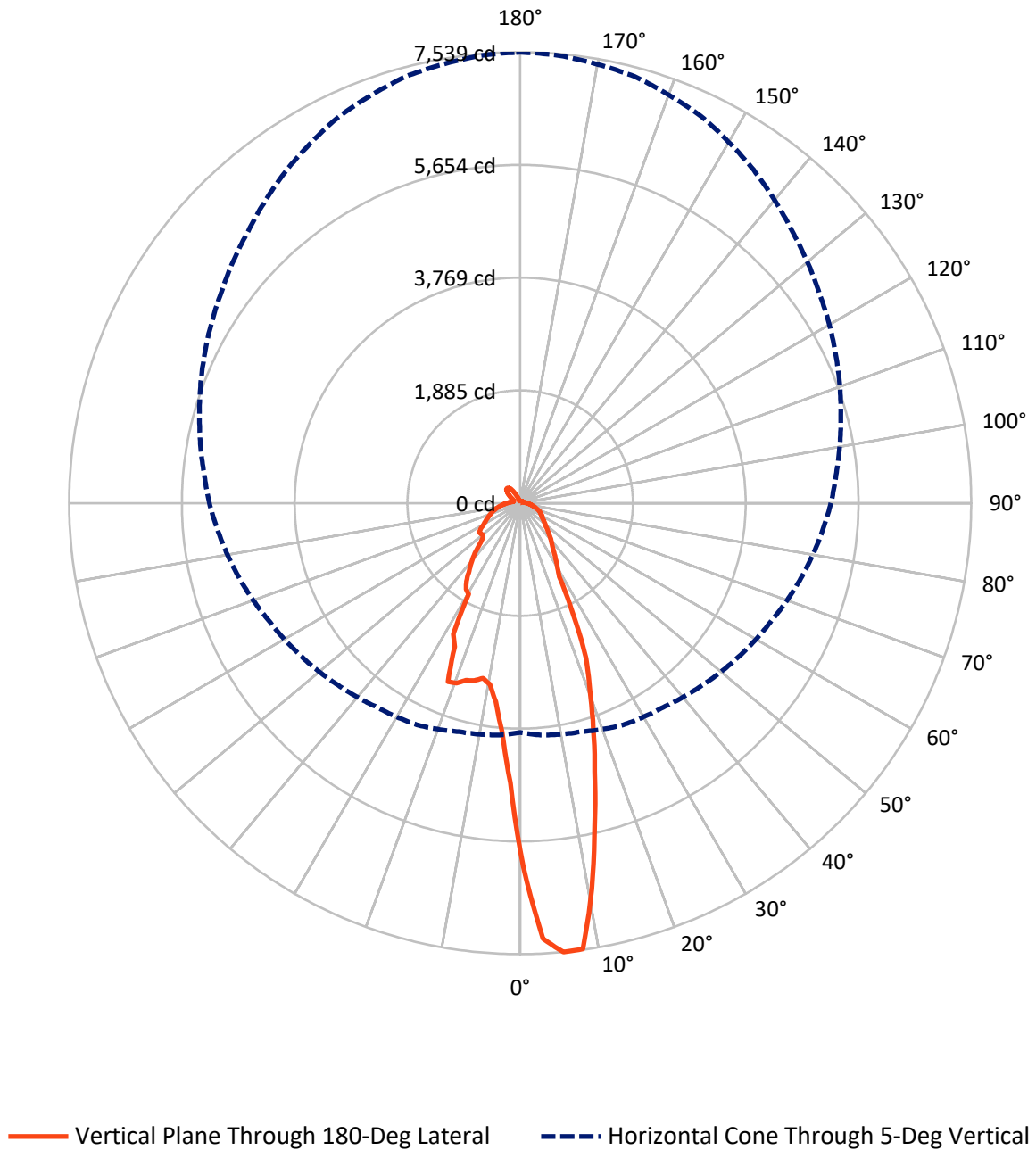


Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type I - Short - N/A

REPORT NUMBER: P690870

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7040-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P690870

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7040-RMARROA5

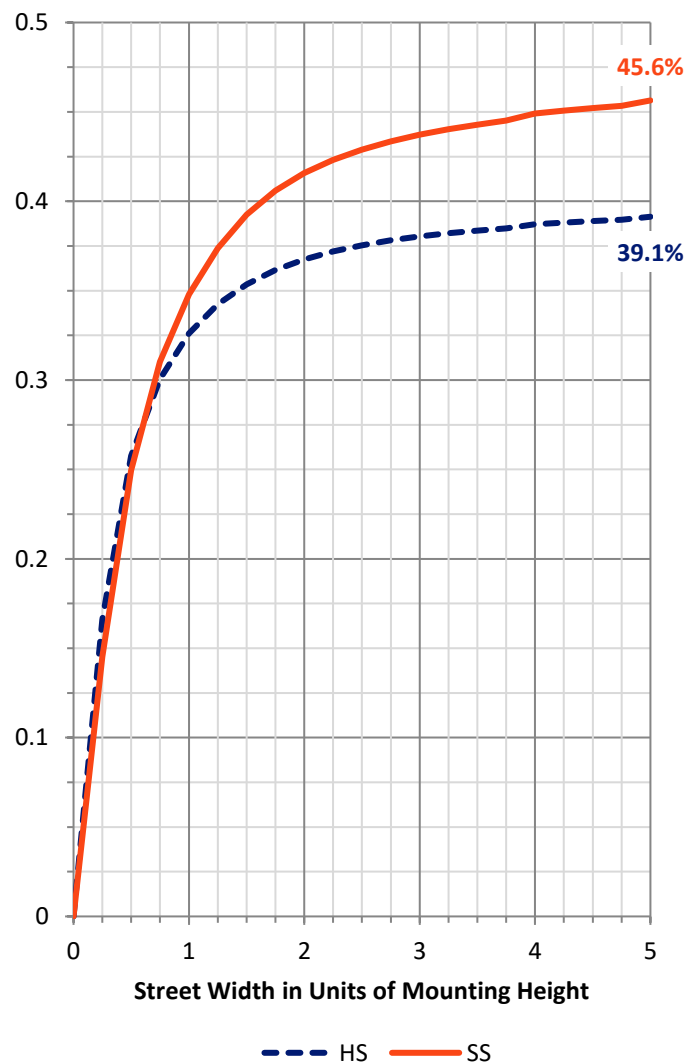
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2915.5	312.6	3228.1
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	3402.3	623.5	4025.9
	% Fixture	46.9	8.6	55.5
Total	Lumens	6317.9	936.1	7254.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.6	6.7
10°-20°	1045.8	14.4
20°-30°	1151.5	15.9
30°-40°	846.1	11.7
40°-50°	708.9	9.8
50°-60°	711.3	9.8
60°-70°	609.1	8.4
70°-80°	453.9	6.3
80°-90°	303.7	4.2
90°-100°	180.4	2.5
100°-110°	104.7	1.4
110°-120°	97.4	1.3
120°-130°	141.3	1.9
130°-140°	190.1	2.6
140°-150°	154.0	2.1
150°-160°	60.8	0.8
160°-170°	7.4	0.1
170°-180°	0.0	0.0
0°-90°	6317.9	87.1
0°-180°	7254.0	100.0

Coefficient of Utilization



REPORT NUMBER: P690870

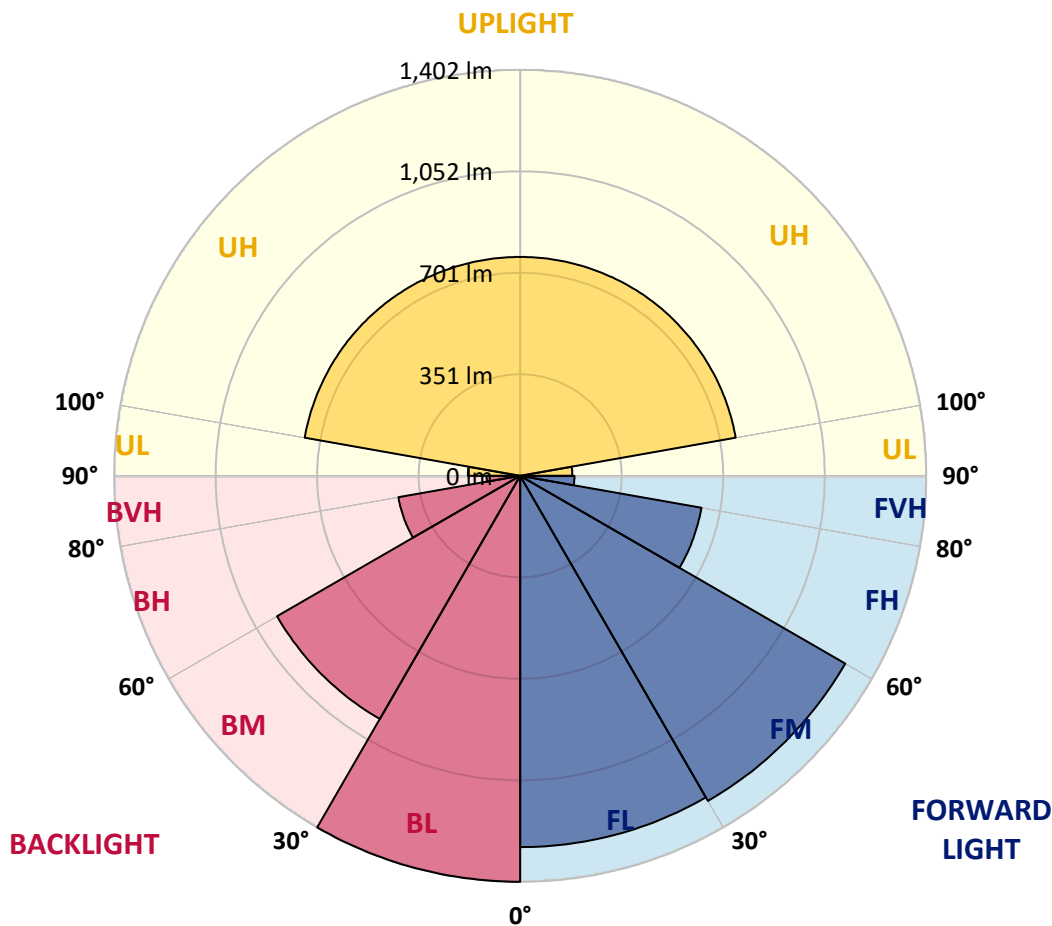
CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7040-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1282.6	17.7			
FM	(30°-60°)	1296.6	17.9			
FH	(60°-80°)	635.7	8.8			G0/660
FVH	(80°-90°)	187.5	2.6			G2/225
BL	(0°-30°)	1402.3	19.3	B3/2500		
BM	(30°-60°)	969.7	13.4	B1/1000		
BH	(60°-80°)	427.3	5.9	B1/500		G1/500
BVH	(80°-90°)	116.2	1.6			G2/225
UL	(90°-100°)	180.4	2.5		U3/500	
UH	(100°-180°)	755.8	10.4		U4/1000	

BUG Rating: B3-U4-G2

Type I Short



REPORT NUMBER: P690870

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7040-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3
2.5°	4678.1	4747.2	4781.8	4885.5	4920.1	4986.3	5087.1	5188.0	5357.9	5484.7	5582.6
5°	3834.1	3891.7	3955.1	4087.6	4165.3	4303.6	4464.9	4637.8	4856.7	5078.5	5193.7
7.5°	3341.5	3355.9	3448.1	3609.4	3750.5	3897.4	4073.2	4223.0	4372.7	4554.2	4669.4
10°	3070.7	3090.9	3151.4	3275.2	3396.2	3517.2	3655.5	3770.7	3923.4	4076.0	4145.2
12.5°	2990.1	2998.7	3050.6	3122.6	3200.3	3278.1	3384.7	3488.4	3623.8	3756.3	3802.4
15°	3062.1	3062.1	3070.7	3099.5	3139.8	3200.3	3281.0	3370.3	3494.2	3592.1	3641.1
17.5°	3096.6	3099.5	3122.6	3128.3	3165.8	3191.7	3263.7	3332.8	3451.0	3531.6	3557.5
20°	3188.8	3188.8	3191.7	3206.1	3211.9	3226.3	3258.0	3295.4	3393.3	3436.5	3430.8
22.5°	3217.6	3206.1	3252.2	3335.7	3332.8	3335.7	3306.9	3315.6	3370.3	3353.0	3312.7
25°	2641.5	2627.1	2679.0	2730.8	2805.7	2900.8	3137.0	3321.3	3390.5	3335.7	3246.4
27.5°	2457.1	2393.8	2379.4	2255.5	2143.2	1958.8	1941.5	1826.3	1814.8	1886.8	1953.0
30°	1745.6	1748.5	1745.6	1734.1	1725.5	1734.1	1742.8	1722.6	1728.4	1774.4	1754.3
32.5°	1702.4	1702.4	1690.9	1685.1	1659.2	1650.6	1636.2	1598.7	1604.5	1639.1	1630.4
35°	1587.2	1581.4	1584.3	1569.9	1523.8	1486.4	1480.6	1448.9	1448.9	1469.1	1460.5
37.5°	1414.4	1405.7	1440.3	1437.4	1400.0	1385.6	1371.2	1351.0	1351.0	1368.3	1351.0
40°	1279.0	1273.2	1310.7	1322.2	1299.1	1304.9	1307.8	1290.5	1307.8	1310.7	1287.6
42.5°	1135.0	1132.1	1163.8	1160.9	1140.7	1137.8	1135.0	1123.4	1152.2	1175.3	1158.0
45°	965.0	956.4	979.4	988.0	982.3	973.6	970.8	970.8	988.0	999.6	982.3
47.5°	852.7	855.5	872.8	893.0	898.7	904.5	901.6	895.9	907.4	910.3	895.9
50°	815.2	818.1	844.0	867.1	884.3	895.9	895.9	887.2	895.9	887.2	867.1
52.5°	832.5	832.5	867.1	901.6	930.4	950.6	953.5	942.0	942.0	918.9	887.2
55°	838.3	844.0	890.1	947.7	999.6	1054.3	1080.2	1071.6	1080.2	1031.3	979.4
57.5°	783.5	797.9	844.0	913.1	982.3	1068.7	1123.4	1129.2	1126.3	1083.1	1019.7
60°	711.5	723.0	754.7	815.2	881.5	950.6	1005.3	1016.9	1028.4	1008.2	950.6
62.5°	662.5	668.3	694.2	737.4	783.5	821.0	841.1	838.3	849.8	844.0	800.8
65°	619.3	622.2	651.0	685.6	714.4	751.8	757.6	757.6	766.2	754.7	720.1
67.5°	573.2	573.2	596.3	628.0	662.5	694.2	702.9	705.7	717.3	705.7	679.8
70°	532.9	532.9	553.1	579.0	604.9	636.6	645.3	648.1	662.5	648.1	622.2
72.5°	495.5	495.5	512.7	535.8	558.8	584.8	593.4	596.3	607.8	593.4	573.2
75°	455.1	458.0	472.4	492.6	512.7	535.8	547.3	547.3	556.0	538.7	521.4
77.5°	414.8	417.7	432.1	449.4	466.7	489.7	495.5	498.3	507.0	489.7	472.4
80°	374.5	380.2	391.8	406.2	423.4	440.7	452.3	452.3	458.0	440.7	429.2
82.5°	337.0	342.8	351.4	363.0	380.2	397.5	409.0	409.0	411.9	397.5	383.1
85°	299.6	305.3	314.0	322.6	337.0	354.3	365.8	365.8	368.7	354.3	342.8
87.5°	265.0	270.8	276.5	285.2	296.7	314.0	325.5	325.5	325.5	314.0	302.5
90°	230.4	233.3	239.1	247.7	259.3	273.7	282.3	285.2	285.2	270.8	265.0
92.5°	204.5	204.5	210.3	216.0	227.6	239.1	247.7	250.6	250.6	242.0	233.3
95°	175.7	178.6	181.5	187.2	195.9	204.5	216.0	216.0	216.0	210.3	204.5
97.5°	155.6	152.7	155.6	158.4	167.1	172.8	181.5	184.4	184.4	178.6	175.7
100°	132.5	135.4	135.4	138.3	141.1	144.0	149.8	152.7	152.7	149.8	149.8
102.5°	123.9	121.0	121.0	121.0	121.0	121.0	123.9	123.9	126.7	123.9	121.0
105°	115.2	115.2	115.2	115.2	112.3	112.3	112.3	112.3	109.5	106.6	106.6
107.5°	112.3	112.3	112.3	112.3	109.5	109.5	106.6	106.6	103.7	100.8	97.9
110°	112.3	112.3	112.3	112.3	109.5	106.6	106.6	103.7	100.8	97.9	95.1

REPORT NUMBER: P690870

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	118.1	118.1	118.1	118.1	112.3	109.5	106.6	106.6	100.8	97.9	95.1
115°	129.6	129.6	126.7	126.7	123.9	118.1	115.2	112.3	109.5	103.7	100.8
117.5°	141.1	141.1	141.1	141.1	138.3	132.5	126.7	123.9	121.0	112.3	109.5
120°	161.3	161.3	161.3	164.2	158.4	152.7	146.9	141.1	138.3	129.6	123.9
122.5°	187.2	184.4	190.1	193.0	190.1	181.5	172.8	167.1	161.3	149.8	144.0
125°	213.2	213.2	218.9	227.6	227.6	218.9	207.4	198.8	193.0	175.7	167.1
127.5°	244.9	244.9	253.5	267.9	270.8	262.1	250.6	239.1	230.4	207.4	198.8
130°	273.7	273.7	290.9	308.2	316.9	308.2	296.7	282.3	270.8	244.9	230.4
132.5°	296.7	299.6	319.7	342.8	354.3	351.4	337.0	325.5	314.0	282.3	265.0
135°	319.7	322.6	345.7	374.5	388.9	388.9	377.4	363.0	348.6	314.0	293.8
137.5°	331.3	334.1	363.0	391.8	409.0	414.8	409.0	394.6	380.2	342.8	316.9
140°	331.3	337.0	365.8	394.6	411.9	420.6	420.6	406.2	391.8	357.2	331.3
142.5°	322.6	328.4	354.3	383.1	400.4	411.9	414.8	403.3	388.9	354.3	328.4
145°	305.3	308.2	334.1	360.1	377.4	391.8	397.5	388.9	371.6	342.8	316.9
147.5°	276.5	276.5	299.6	319.7	342.8	357.2	365.8	360.1	345.7	319.7	296.7
150°	236.2	236.2	253.5	273.7	293.8	311.1	319.7	319.7	305.3	285.2	262.1
152.5°	187.2	190.1	201.6	218.9	239.1	253.5	265.0	265.0	256.4	239.1	218.9
155°	144.0	144.0	152.7	164.2	181.5	195.9	204.5	204.5	198.8	184.4	172.8
157.5°	103.7	103.7	109.5	121.0	132.5	144.0	152.7	152.7	146.9	138.3	129.6
160°	69.1	69.1	72.0	80.7	89.3	97.9	103.7	106.6	103.7	97.9	89.3
162.5°	37.4	37.4	40.3	46.1	51.9	60.5	63.4	66.3	66.3	60.5	57.6
165°	11.5	11.5	11.5	17.3	20.2	25.9	28.8	31.7	31.7	31.7	28.8
167.5°	2.9	2.9	2.9	2.9	2.9	2.9	5.8	8.6	8.6	8.6	8.6
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	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: P690870

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3
2.5°	5674.8	5887.9	6124.1	6366.1	6613.8	6847.2	7043.1	7198.6	7282.1	7302.3	7290.8
5°	5297.4	5548.0	5824.6	6106.9	6429.5	6801.1	7141.0	7385.8	7512.6	7532.8	7538.5
7.5°	4758.7	4977.7	5248.4	5574.0	5980.1	6377.6	6901.9	7267.7	7472.3	7527.0	7527.0
10°	4191.3	4384.3	4554.2	4839.4	5193.7	5565.3	6011.8	6348.8	6556.2	6622.5	6564.9
12.5°	3871.5	3955.1	4070.3	4280.6	4502.4	4784.7	5170.7	5389.6	5525.0	5565.3	5530.7
15°	3667.0	3710.2	3759.2	3848.5	4004.0	4179.7	4407.3	4542.7	4626.2	4675.2	4657.9
17.5°	3569.1	3569.1	3560.4	3580.6	3620.9	3701.6	3857.1	3906.1	3943.5	3963.7	3952.2
20°	3419.3	3373.2	3335.7	3278.1	3255.1	3252.2	3289.6	3341.5	3338.6	3341.5	3318.4
22.5°	3269.5	3174.4	3082.2	2995.8	2897.9	2848.9	2814.3	2831.6	2817.2	2831.6	2817.2
25°	3197.5	3004.5	2820.1	2609.8	2434.1	2298.7	2209.4	2154.7	2062.5	2097.1	2065.4
27.5°	1984.7	1904.1	1826.3	1670.7	1523.8	1472.0	1428.8	1405.7	1388.4	1397.1	1391.3
30°	1719.7	1653.5	1593.0	1512.3	1400.0	1330.8	1279.0	1232.9	1218.5	1221.4	1218.5
32.5°	1595.8	1544.0	1469.1	1385.6	1284.7	1198.3	1137.8	1094.6	1071.6	1086.0	1074.5
35°	1428.8	1376.9	1313.6	1235.8	1149.4	1071.6	1014.0	973.6	947.7	953.5	950.6
37.5°	1319.3	1270.3	1215.6	1132.1	1057.2	982.3	924.7	884.3	858.4	864.2	858.4
40°	1255.9	1201.2	1143.6	1068.7	993.8	916.0	861.3	815.2	789.3	789.3	789.3
42.5°	1126.3	1083.1	1034.1	956.4	890.1	823.9	769.1	734.6	705.7	708.6	702.9
45°	962.1	930.4	893.0	841.1	786.4	734.6	688.5	662.5	639.5	642.4	639.5
47.5°	878.6	849.8	806.6	766.2	717.3	671.2	630.9	599.2	581.9	584.8	579.0
50°	846.9	812.3	763.4	708.6	662.5	616.4	576.1	553.1	535.8	538.7	535.8
52.5°	858.4	803.7	734.6	668.3	613.6	567.5	535.8	509.9	498.3	501.2	495.5
55°	933.3	838.3	734.6	651.0	581.9	530.0	498.3	469.5	458.0	458.0	458.0
57.5°	959.2	855.5	725.9	630.9	556.0	504.1	466.7	437.9	426.3	426.3	426.3
60°	898.7	809.4	691.3	602.0	532.9	483.9	452.3	432.1	423.4	423.4	423.4
62.5°	769.1	711.5	622.2	550.2	498.3	455.1	423.4	397.5	388.9	386.0	386.0
65°	697.1	642.4	567.5	507.0	460.9	426.3	397.5	377.4	365.8	365.8	365.8
67.5°	651.0	599.2	530.0	472.4	429.2	391.8	365.8	345.7	339.9	337.0	337.0
70°	599.2	550.2	481.1	429.2	388.9	357.2	331.3	314.0	308.2	308.2	305.3
72.5°	547.3	501.2	435.0	386.0	348.6	319.7	296.7	282.3	276.5	273.7	273.7
75°	498.3	452.3	391.8	345.7	311.1	285.2	265.0	250.6	244.9	244.9	244.9
77.5°	452.3	409.0	351.4	308.2	279.4	253.5	236.2	224.7	218.9	218.9	218.9
80°	409.0	365.8	314.0	273.7	244.9	224.7	210.3	198.8	193.0	195.9	193.0
82.5°	363.0	328.4	279.4	242.0	218.9	198.8	184.4	175.7	170.0	172.8	170.0
85°	325.5	290.9	244.9	213.2	190.1	172.8	161.3	152.7	146.9	149.8	146.9
87.5°	288.1	256.4	216.0	187.2	167.1	152.7	138.3	132.5	129.6	129.6	126.7
90°	247.7	218.9	184.4	161.3	141.1	129.6	118.1	112.3	109.5	106.6	106.6
92.5°	218.9	195.9	164.2	144.0	126.7	118.1	106.6	100.8	97.9	97.9	97.9
95°	193.0	172.8	146.9	129.6	118.1	106.6	97.9	95.1	92.2	92.2	89.3
97.5°	167.1	149.8	132.5	118.1	106.6	97.9	89.3	86.4	83.5	83.5	83.5
100°	141.1	129.6	115.2	103.7	95.1	89.3	80.7	77.8	74.9	74.9	74.9
102.5°	118.1	109.5	97.9	89.3	83.5	77.8	72.0	69.1	66.3	66.3	66.3
105°	103.7	95.1	89.3	80.7	74.9	69.1	66.3	60.5	57.6	57.6	57.6
107.5°	95.1	89.3	83.5	77.8	72.0	66.3	60.5	54.7	51.9	51.9	51.9
110°	92.2	86.4	80.7	74.9	69.1	63.4	60.5	51.9	49.0	49.0	49.0

REPORT NUMBER: P690870

CATALOG NUMBER: CRTK2-C01-5TLD-U-T3-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	92.2	89.3	83.5	77.8	72.0	66.3	60.5	49.0	46.1	46.1	46.1
115°	97.9	92.2	86.4	80.7	74.9	69.1	63.4	49.0	46.1	46.1	46.1
117.5°	106.6	100.8	92.2	86.4	80.7	72.0	63.4	51.9	46.1	46.1	46.1
120°	121.0	112.3	103.7	95.1	86.4	77.8	66.3	51.9	43.2	46.1	46.1
122.5°	138.3	129.6	115.2	103.7	95.1	83.5	69.1	54.7	43.2	46.1	46.1
125°	161.3	149.8	132.5	118.1	103.7	89.3	72.0	54.7	43.2	46.1	49.0
127.5°	187.2	170.0	149.8	129.6	112.3	95.1	77.8	57.6	43.2	49.0	49.0
130°	216.0	195.9	170.0	144.0	123.9	100.8	80.7	57.6	46.1	46.1	46.1
132.5°	247.7	218.9	184.4	155.6	129.6	103.7	80.7	57.6	46.1	46.1	46.1
135°	270.8	236.2	198.8	164.2	135.4	106.6	83.5	57.6	43.2	43.2	43.2
137.5°	290.9	250.6	210.3	170.0	138.3	106.6	80.7	54.7	43.2	40.3	40.3
140°	302.5	256.4	210.3	170.0	135.4	103.7	74.9	51.9	37.4	37.4	37.4
142.5°	302.5	253.5	207.4	164.2	126.7	97.9	72.0	46.1	34.6	34.6	34.6
145°	290.9	242.0	195.9	155.6	118.1	89.3	63.4	43.2	31.7	31.7	31.7
147.5°	270.8	221.8	178.6	141.1	103.7	77.8	54.7	34.6	25.9	25.9	25.9
150°	242.0	195.9	155.6	121.0	89.3	63.4	46.1	28.8	20.2	20.2	20.2
152.5°	201.6	164.2	126.7	100.8	72.0	51.9	34.6	23.0	17.3	17.3	17.3
155°	158.4	129.6	100.8	77.8	54.7	37.4	25.9	17.3	11.5	11.5	11.5
157.5°	121.0	97.9	74.9	57.6	40.3	28.8	20.2	11.5	8.6	8.6	8.6
160°	83.5	66.3	51.9	40.3	25.9	20.2	14.4	8.6	5.8	5.8	5.8
162.5°	54.7	43.2	31.7	23.0	17.3	11.5	8.6	5.8	2.9	2.9	2.9
165°	25.9	20.2	17.3	11.5	8.6	5.8	2.9	2.9	0.0	0.0	0.0
167.5°	8.6	5.8	5.8	2.9	2.9	2.9	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)