

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: P690930

Luminaire Tested: **CRTK2-C01-D-U-T2-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690930
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-C01-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: 7190 lumens
Efficiency: N/A
Efficacy: 117.9 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): 61
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

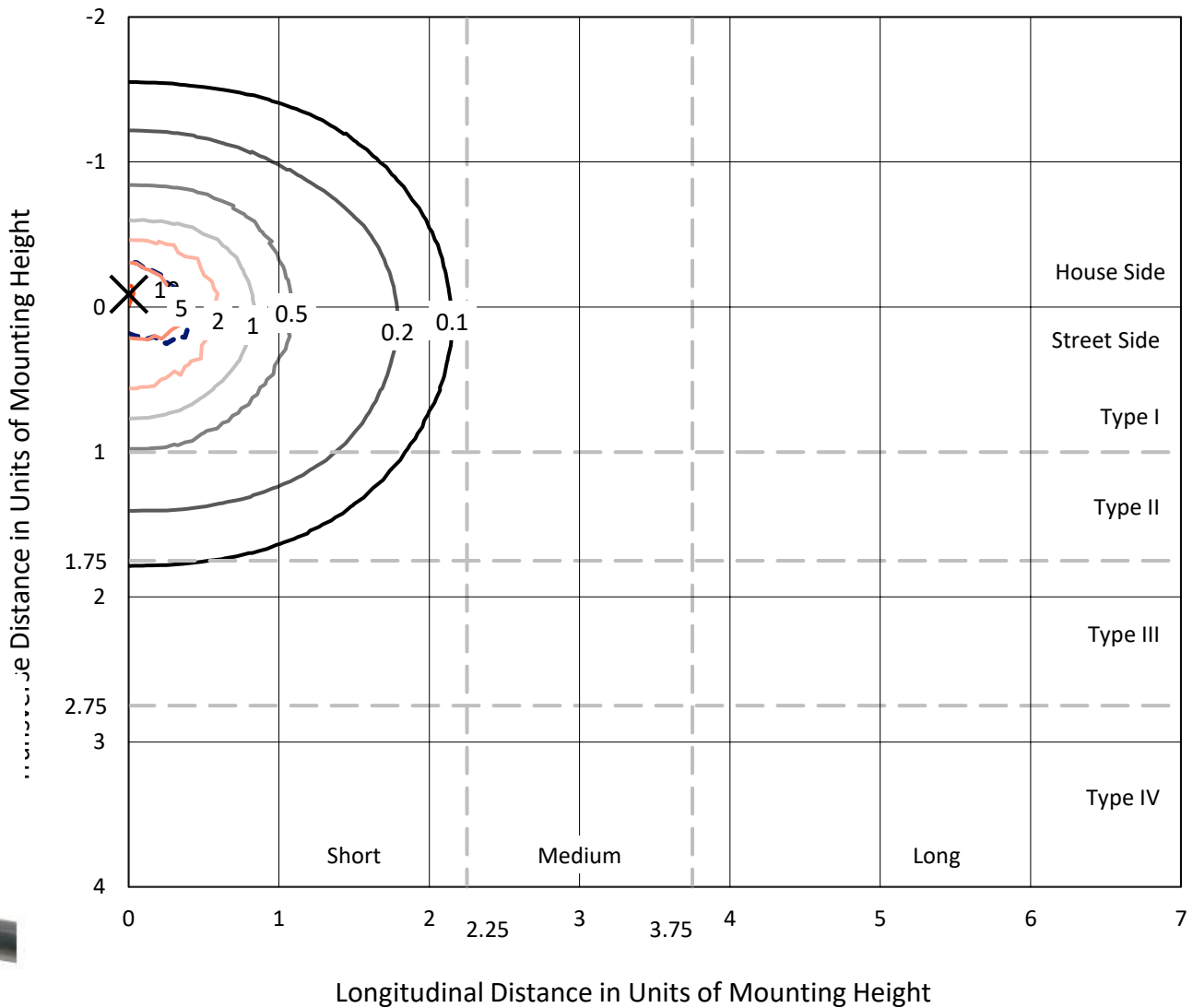


REPORT NUMBER: P690930

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

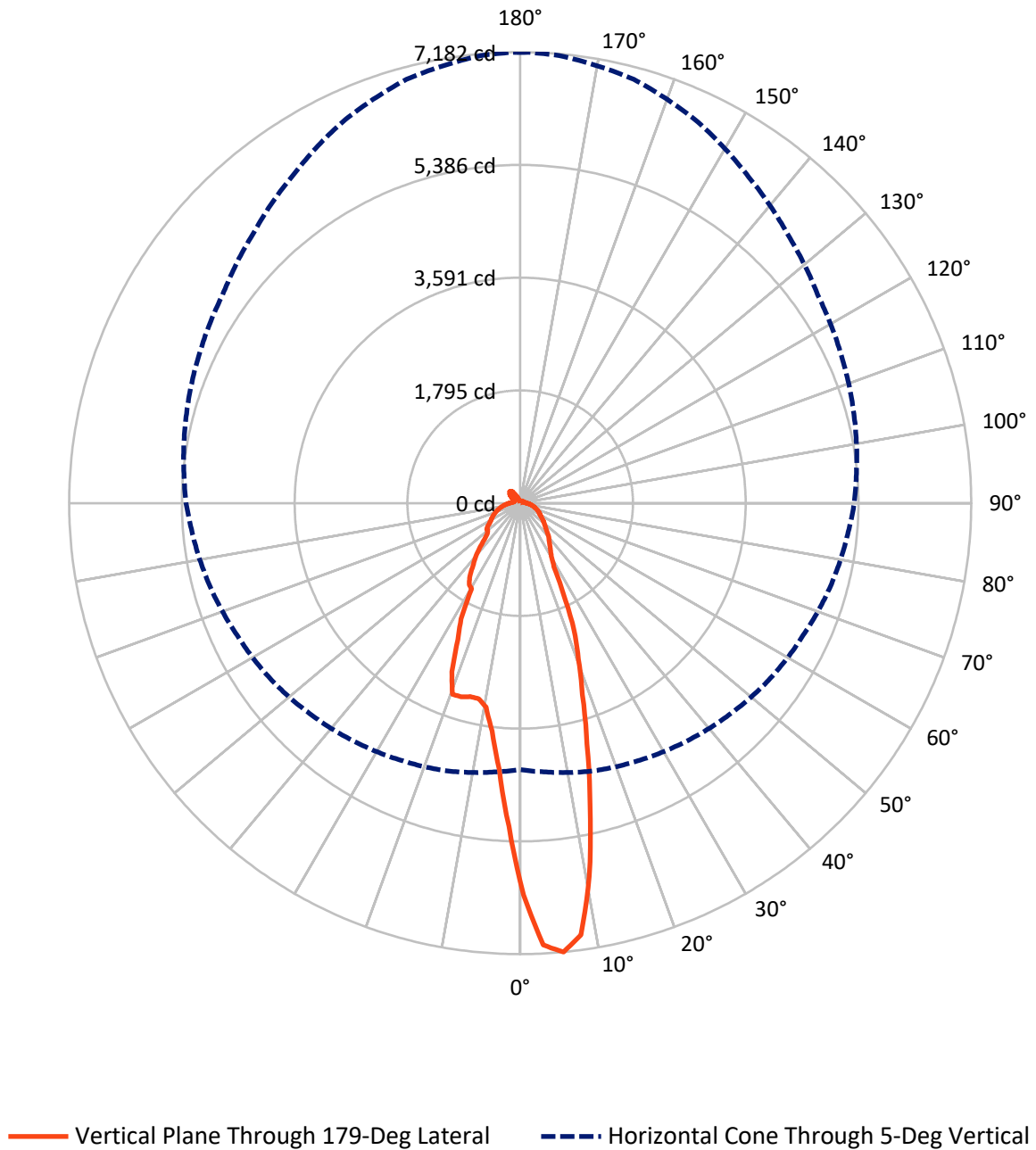


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type I - Short - N/A

REPORT NUMBER: P690930

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P690930

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5

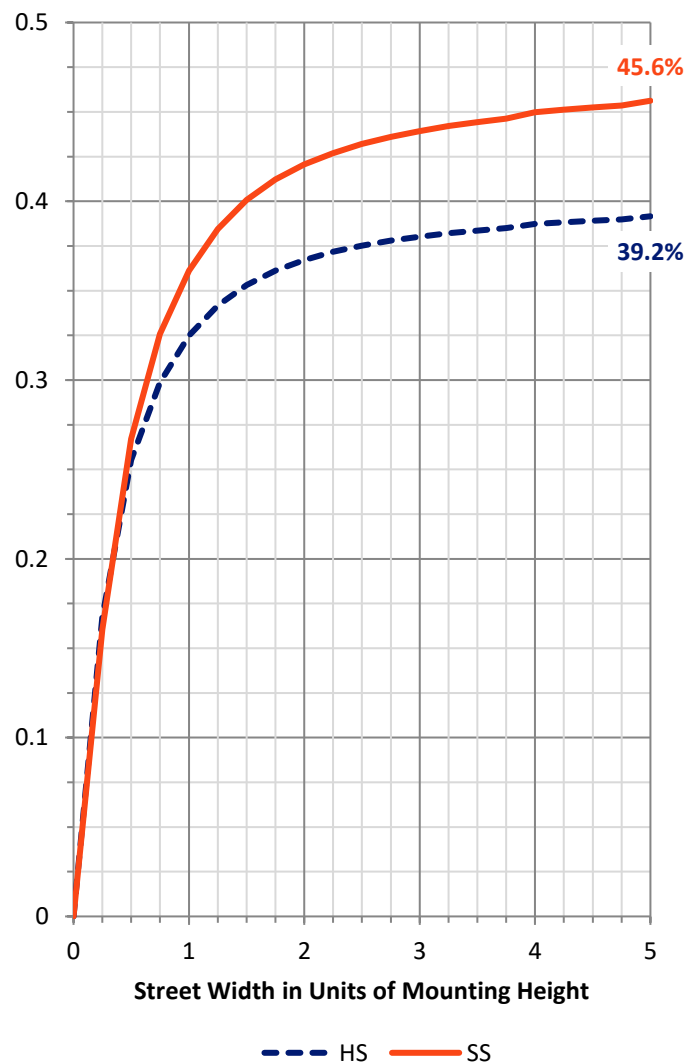
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2893.3	351.8	3245.1
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	3358.3	586.6	3944.9
	% Fixture	46.7	8.2	54.9
Total	Lumens	6251.6	938.4	7190.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.8	6.8
10°-20°	1040.7	14.5
20°-30°	1130.6	15.7
30°-40°	836.8	11.6
40°-50°	700.8	9.7
50°-60°	704.6	9.8
60°-70°	599.8	8.3
70°-80°	448.1	6.2
80°-90°	302.5	4.2
90°-100°	180.8	2.5
100°-110°	104.4	1.5
110°-120°	96.1	1.3
120°-130°	139.0	1.9
130°-140°	190.3	2.6
140°-150°	156.8	2.2
150°-160°	63.1	0.9
160°-170°	7.8	0.1
170°-180°	0.0	0.0
0°-90°	6251.6	86.9
0°-180°	7190.0	100.0

Coefficient of Utilization



REPORT NUMBER: P690930

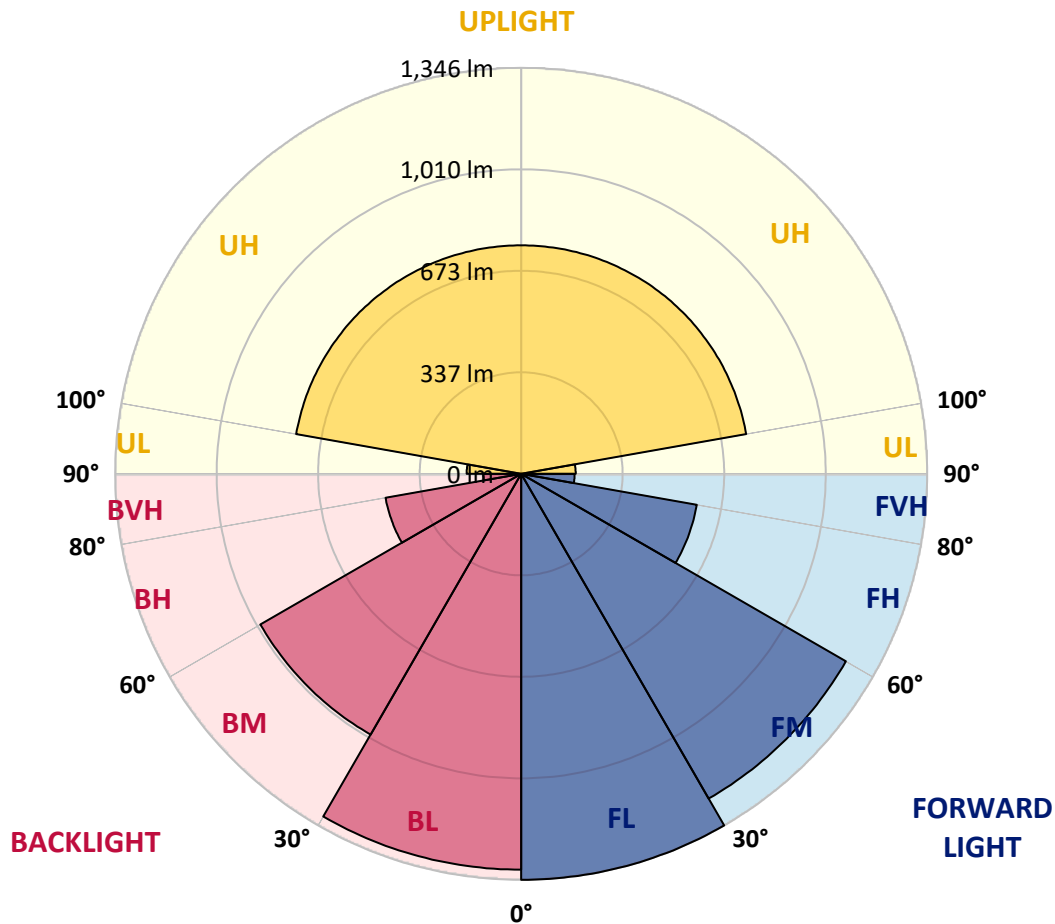
CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1346.4	18.7			
FM	(30°-60°)	1243.4	17.3			
FH	(60°-80°)	591.4	8.2			G0/660
FVH	(80°-90°)	177.1	2.5			G2/225
BL	(0°-30°)	1312.7	18.3	B3/2500		
BM	(30°-60°)	998.8	13.9	B1/1000		
BH	(60°-80°)	456.5	6.3	B1/500		G1/500
BVH	(80°-90°)	125.4	1.7			G2/225
UL	(90°-100°)	180.8	2.5		U3/500	
UH	(100°-180°)	757.6	10.5		U4/1000	

BUG Rating: B3-U4-G2

Type I Short



REPORT NUMBER: P690930

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1
2.5°	5143.5	5172.4	5235.8	5267.5	5299.2	5339.6	5400.1	5446.3	5553.0	5651.0	5691.3
5°	4244.0	4295.9	4417.0	4515.0	4624.6	4739.9	4863.9	4973.4	5114.7	5244.5	5319.4
7.5°	3647.2	3690.4	3834.6	4024.9	4218.1	4379.5	4506.4	4590.0	4653.4	4705.3	4760.1
10°	3283.9	3321.4	3465.6	3635.7	3800.0	3949.9	4056.6	4137.3	4160.4	4212.3	4238.2
12.5°	3180.1	3197.4	3298.3	3416.5	3517.4	3664.5	3791.3	3877.8	3915.3	3961.5	3975.9
15°	3183.0	3183.0	3240.7	3315.6	3407.9	3520.3	3661.6	3765.4	3820.2	3846.1	3843.2
17.5°	3226.2	3223.4	3249.3	3309.9	3387.7	3500.1	3644.3	3751.0	3814.4	3823.1	3814.4
20°	3226.2	3229.1	3237.8	3307.0	3381.9	3482.8	3629.9	3719.3	3768.3	3742.3	3713.5
22.5°	2897.6	2894.7	2969.6	3116.7	3318.5	3529.0	3661.6	3771.2	3782.7	3687.6	3609.7
25°	2393.0	2372.8	2416.1	2482.4	2617.9	2863.0	3139.8	3554.9	3802.9	3748.1	3629.9
27.5°	2075.9	2049.9	2087.4	2058.6	2044.2	2026.9	2009.6	1960.5	1992.3	2021.1	2147.9
30°	1565.6	1571.3	1580.0	1597.3	1631.9	1701.1	1773.1	1816.4	1853.9	1928.8	1920.2
32.5°	1531.0	1528.1	1531.0	1548.3	1565.6	1608.8	1652.0	1675.1	1703.9	1776.0	1758.7
35°	1415.6	1409.9	1430.0	1438.7	1435.8	1447.3	1490.6	1516.5	1542.5	1588.6	1571.3
37.5°	1245.5	1251.3	1294.5	1317.6	1326.3	1352.2	1386.8	1409.9	1441.6	1476.2	1467.5
40°	1118.7	1115.8	1161.9	1193.6	1213.8	1254.2	1306.1	1340.7	1392.6	1421.4	1401.2
42.5°	963.0	974.5	1009.1	1040.8	1046.6	1066.8	1112.9	1153.3	1216.7	1259.9	1248.4
45°	810.2	818.8	847.6	873.6	893.8	919.7	954.3	988.9	1040.8	1075.4	1072.5
47.5°	715.0	723.7	746.7	778.5	807.3	844.8	879.4	914.0	963.0	988.9	980.3
50°	677.5	683.3	709.3	743.9	787.1	833.2	879.4	916.8	963.0	980.3	965.9
52.5°	674.7	674.7	706.4	758.3	818.8	882.2	942.8	994.7	1037.9	1037.9	1009.1
55°	634.3	640.1	680.4	749.6	841.9	945.7	1052.4	1150.4	1208.0	1196.5	1141.7
57.5°	576.6	579.5	622.8	689.1	787.1	914.0	1058.1	1182.1	1251.3	1265.7	1208.0
60°	542.0	544.9	573.7	637.2	720.8	821.7	954.3	1052.4	1121.5	1164.8	1118.7
62.5°	513.2	513.2	542.0	585.3	654.5	729.4	804.4	870.7	925.5	957.2	931.3
65°	481.5	481.5	501.7	542.0	596.8	668.9	726.6	775.6	824.6	847.6	824.6
67.5°	449.8	449.8	470.0	507.4	556.4	617.0	674.7	720.8	769.8	787.1	769.8
70°	418.1	418.1	438.2	470.0	516.1	573.7	617.0	666.0	712.1	723.7	709.3
72.5°	386.3	386.3	406.5	435.4	475.7	530.5	570.9	608.3	651.6	660.2	645.8
75°	357.5	357.5	371.9	400.8	438.2	487.3	527.6	562.2	596.8	596.8	585.3
77.5°	325.8	328.7	340.2	366.2	400.8	446.9	484.4	516.1	544.9	544.9	530.5
80°	294.1	297.0	308.5	331.6	363.3	406.5	441.1	470.0	495.9	495.9	481.5
82.5°	262.4	265.3	276.8	297.0	325.8	366.2	400.8	429.6	452.7	449.8	435.4
85°	233.5	236.4	245.1	262.4	288.3	328.7	360.4	386.3	406.5	403.6	392.1
87.5°	204.7	207.6	216.2	230.7	253.7	291.2	322.9	346.0	363.3	360.4	348.9
90°	178.8	178.8	187.4	201.8	222.0	253.7	282.5	302.7	320.0	314.3	302.7
92.5°	155.7	158.6	164.3	175.9	193.2	222.0	248.0	265.3	282.5	279.7	268.1
95°	138.4	138.4	144.2	152.8	167.2	190.3	216.2	230.7	242.2	242.2	233.5
97.5°	121.1	124.0	126.9	132.6	144.2	161.5	181.6	196.1	204.7	204.7	198.9
100°	109.6	112.4	112.4	118.2	124.0	135.5	149.9	161.5	170.1	170.1	167.2
102.5°	103.8	103.8	103.8	106.7	109.6	115.3	124.0	129.7	135.5	138.4	135.5
105°	98.0	98.0	98.0	100.9	100.9	106.7	109.6	115.3	118.2	118.2	115.3
107.5°	95.1	95.1	98.0	98.0	98.0	100.9	106.7	106.7	109.6	106.7	106.7
110°	98.0	98.0	98.0	98.0	98.0	100.9	103.8	103.8	103.8	103.8	100.9

REPORT NUMBER: P690930

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	100.9	100.9	100.9	100.9	103.8	103.8	103.8	106.7	106.7	103.8	103.8
115°	109.6	109.6	109.6	109.6	109.6	112.4	112.4	112.4	112.4	109.6	106.7
117.5°	118.2	118.2	118.2	121.1	121.1	124.0	121.1	124.0	121.1	118.2	118.2
120°	132.6	132.6	135.5	138.4	141.3	141.3	138.4	141.3	141.3	135.5	132.6
122.5°	149.9	149.9	152.8	161.5	164.3	167.2	164.3	164.3	164.3	158.6	155.7
125°	167.2	170.1	175.9	187.4	196.1	201.8	196.1	198.9	198.9	190.3	187.4
127.5°	187.4	190.3	201.8	219.1	233.5	239.3	236.4	239.3	242.2	227.8	222.0
130°	207.6	207.6	224.9	250.8	271.0	279.7	282.5	285.4	288.3	273.9	262.4
132.5°	224.9	224.9	248.0	279.7	305.6	320.0	325.8	331.6	337.3	317.1	302.7
135°	236.4	239.3	268.1	305.6	337.3	357.5	366.2	371.9	380.6	357.5	340.2
137.5°	245.1	250.8	279.7	320.0	354.6	383.5	400.8	409.4	415.2	392.1	369.0
140°	248.0	250.8	282.5	322.9	357.5	389.2	415.2	429.6	432.5	409.4	386.3
142.5°	239.3	245.1	273.9	314.3	348.9	383.5	412.3	426.7	429.6	409.4	386.3
145°	227.8	230.7	256.6	294.1	328.7	366.2	397.9	412.3	412.3	395.0	371.9
147.5°	207.6	210.5	233.5	265.3	299.8	337.3	369.0	383.5	386.3	369.0	348.9
150°	178.8	181.6	198.9	224.9	259.5	297.0	325.8	343.1	343.1	325.8	311.4
152.5°	144.2	147.0	161.5	181.6	210.5	245.1	271.0	288.3	288.3	276.8	259.5
155°	112.4	112.4	124.0	141.3	161.5	187.4	207.6	222.0	224.9	213.4	201.8
157.5°	80.7	80.7	89.4	103.8	121.1	141.3	155.7	167.2	167.2	158.6	152.8
160°	54.8	54.8	60.5	69.2	80.7	95.1	106.7	118.2	118.2	112.4	106.7
162.5°	28.8	28.8	34.6	40.4	49.0	60.5	66.3	75.0	75.0	72.1	69.2
165°	8.6	8.6	11.5	14.4	20.2	25.9	28.8	34.6	37.5	34.6	31.7
167.5°	0.0	0.0	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	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: P690930

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1	6239.1
2.5°	5734.6	5916.2	6080.6	6250.7	6461.1	6645.7	6844.6	6985.9	7046.4	7046.4	7069.5
5°	5374.2	5501.1	5633.7	5783.6	6034.4	6342.9	6697.6	6988.8	7156.0	7181.9	7179.1
7.5°	4777.4	4863.9	4999.4	5166.6	5397.3	5674.0	6129.6	6585.1	6887.9	6942.6	6922.5
10°	4252.7	4333.4	4414.1	4477.5	4641.9	4861.0	5195.4	5639.4	5988.3	6043.1	5999.8
12.5°	3984.5	4010.5	4007.6	4045.1	4111.4	4220.9	4391.0	4647.6	4886.9	4938.8	4901.4
15°	3843.2	3805.8	3748.1	3681.8	3676.0	3693.3	3736.6	3840.4	3941.3	3984.5	3955.7
17.5°	3785.6	3696.2	3578.0	3448.3	3361.8	3281.0	3226.2	3191.7	3206.1	3209.0	3185.9
20°	3650.1	3543.4	3353.1	3168.6	3030.2	2888.9	2767.8	2678.4	2664.0	2649.6	2632.3
22.5°	3497.3	3315.6	3087.9	2863.0	2658.3	2470.9	2335.4	2228.7	2188.3	2202.7	2194.1
25°	3465.6	3162.8	2886.0	2522.8	2263.3	2052.8	1799.1	1626.1	1548.3	1591.5	1562.7
27.5°	2078.8	2087.4	1931.7	1712.6	1525.2	1401.2	1288.8	1196.5	1144.6	1144.6	1150.4
30°	1882.7	1799.1	1695.3	1559.8	1395.4	1271.5	1147.5	1046.6	991.8	977.4	983.2
32.5°	1721.2	1663.6	1565.6	1435.8	1285.9	1159.0	1029.3	937.0	885.1	882.2	879.4
35°	1548.3	1487.7	1407.0	1294.5	1164.8	1046.6	934.1	853.4	807.3	810.2	810.2
37.5°	1430.0	1375.3	1303.2	1196.5	1078.3	960.1	859.2	784.2	746.7	746.7	743.9
40°	1369.5	1306.1	1228.2	1130.2	1020.6	896.7	801.5	729.4	697.7	697.7	694.8
42.5°	1236.9	1182.1	1130.2	1029.3	919.7	818.8	729.4	666.0	634.3	634.3	634.3
45°	1049.5	1017.8	977.4	908.2	818.8	735.2	660.2	599.7	573.7	570.9	570.9
47.5°	968.7	934.1	885.1	821.7	749.6	671.8	599.7	556.4	530.5	530.5	530.5
50°	945.7	905.3	839.0	764.0	689.1	619.9	556.4	516.1	493.0	493.0	495.9
52.5°	977.4	911.1	821.7	729.4	651.6	573.7	519.0	478.6	461.3	461.3	458.4
55°	1086.9	963.0	833.2	720.8	622.8	539.1	481.5	438.2	418.1	418.1	418.1
57.5°	1147.5	1000.5	841.9	709.3	596.8	513.2	452.7	406.5	386.3	386.3	386.3
60°	1078.3	957.2	807.3	686.2	576.6	490.1	426.7	383.5	363.3	360.4	357.5
62.5°	902.4	827.5	720.8	619.9	533.4	458.4	406.5	363.3	343.1	343.1	340.2
65°	804.4	741.0	648.7	562.2	490.1	426.7	377.7	343.1	322.9	320.0	320.0
67.5°	749.6	692.0	599.7	519.0	452.7	395.0	348.9	317.1	302.7	297.0	297.0
70°	689.1	625.6	544.9	472.8	412.3	360.4	322.9	291.2	276.8	273.9	271.0
72.5°	628.5	570.9	495.9	426.7	371.9	328.7	294.1	265.3	250.8	248.0	248.0
75°	565.1	510.3	438.2	380.6	334.4	294.1	262.4	239.3	227.8	224.9	222.0
77.5°	513.2	464.2	395.0	340.2	297.0	265.3	236.4	216.2	204.7	204.7	201.8
80°	464.2	418.1	351.7	302.7	265.3	233.5	210.5	193.2	184.5	181.6	181.6
82.5°	418.1	371.9	311.4	268.1	233.5	207.6	184.5	170.1	161.5	161.5	161.5
85°	374.8	331.6	276.8	236.4	204.7	181.6	161.5	147.0	141.3	138.4	141.3
87.5°	331.6	291.2	245.1	207.6	178.8	155.7	138.4	126.9	121.1	121.1	121.1
90°	291.2	253.7	210.5	175.9	152.8	132.6	118.2	106.7	103.8	100.9	100.9
92.5°	256.6	224.9	187.4	158.6	135.5	121.1	106.7	98.0	92.3	92.3	92.3
95°	224.9	196.1	167.2	141.3	124.0	109.6	98.0	89.4	86.5	86.5	86.5
97.5°	193.2	170.1	147.0	126.9	112.4	100.9	89.4	83.6	80.7	77.8	80.7
100°	161.5	144.2	126.9	112.4	100.9	89.4	80.7	75.0	72.1	72.1	72.1
102.5°	129.7	121.1	106.7	95.1	86.5	80.7	72.1	66.3	63.4	63.4	63.4
105°	112.4	103.8	95.1	86.5	80.7	72.1	66.3	60.5	57.7	57.7	57.7
107.5°	103.8	98.0	89.4	83.6	75.0	69.2	63.4	54.8	51.9	51.9	51.9
110°	100.9	95.1	89.4	80.7	75.0	69.2	63.4	51.9	49.0	49.0	49.0

REPORT NUMBER: P690930

CATALOG NUMBER: CRTK2-C01-D-U-T2-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	100.9	95.1	89.4	83.6	77.8	69.2	63.4	51.9	46.1	46.1	46.1
115°	106.7	100.9	95.1	89.4	80.7	72.1	66.3	51.9	46.1	46.1	46.1
117.5°	115.3	109.6	103.8	95.1	86.5	77.8	66.3	51.9	49.0	49.0	49.0
120°	129.7	124.0	115.3	106.7	95.1	83.6	72.1	54.8	46.1	49.0	49.0
122.5°	149.9	144.2	132.6	118.2	106.7	92.3	75.0	57.7	43.2	49.0	49.0
125°	178.8	170.1	152.8	135.5	118.2	100.9	80.7	60.5	46.1	51.9	51.9
127.5°	210.5	198.9	175.9	152.8	132.6	109.6	86.5	63.4	49.0	51.9	51.9
130°	248.0	227.8	198.9	170.1	144.2	118.2	92.3	66.3	51.9	51.9	51.9
132.5°	285.4	256.6	219.1	187.4	155.7	124.0	95.1	66.3	51.9	51.9	51.9
135°	317.1	282.5	239.3	198.9	161.5	126.9	98.0	66.3	51.9	51.9	51.9
137.5°	346.0	299.8	250.8	204.7	164.3	126.9	95.1	66.3	49.0	49.0	49.0
140°	360.4	308.5	256.6	204.7	161.5	124.0	89.4	60.5	46.1	46.1	46.1
142.5°	360.4	305.6	250.8	198.9	155.7	118.2	83.6	57.7	40.4	43.2	43.2
145°	348.9	294.1	239.3	187.4	144.2	106.7	75.0	49.0	37.5	37.5	37.5
147.5°	322.9	271.0	219.1	170.1	129.7	92.3	66.3	43.2	31.7	28.8	31.7
150°	288.3	239.3	190.3	147.0	109.6	77.8	54.8	34.6	25.9	25.9	25.9
152.5°	242.2	198.9	158.6	121.1	86.5	60.5	40.4	25.9	20.2	20.2	20.2
155°	190.3	155.7	124.0	92.3	66.3	46.1	31.7	20.2	14.4	14.4	14.4
157.5°	144.2	118.2	92.3	66.3	49.0	34.6	23.1	14.4	11.5	11.5	11.5
160°	100.9	80.7	63.4	46.1	31.7	23.1	14.4	8.6	5.8	5.8	5.8
162.5°	63.4	51.9	40.4	25.9	20.2	14.4	8.6	5.8	2.9	2.9	2.9
165°	28.8	25.9	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	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)