

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: P690853

Luminaire Tested: **CRTK2-C01-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P690853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C01-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K LED WITH TYPE II OPTIC AND NEMA REFRACTOR WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5682 lumens
Efficiency: N/A
Efficacy: 94.7 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



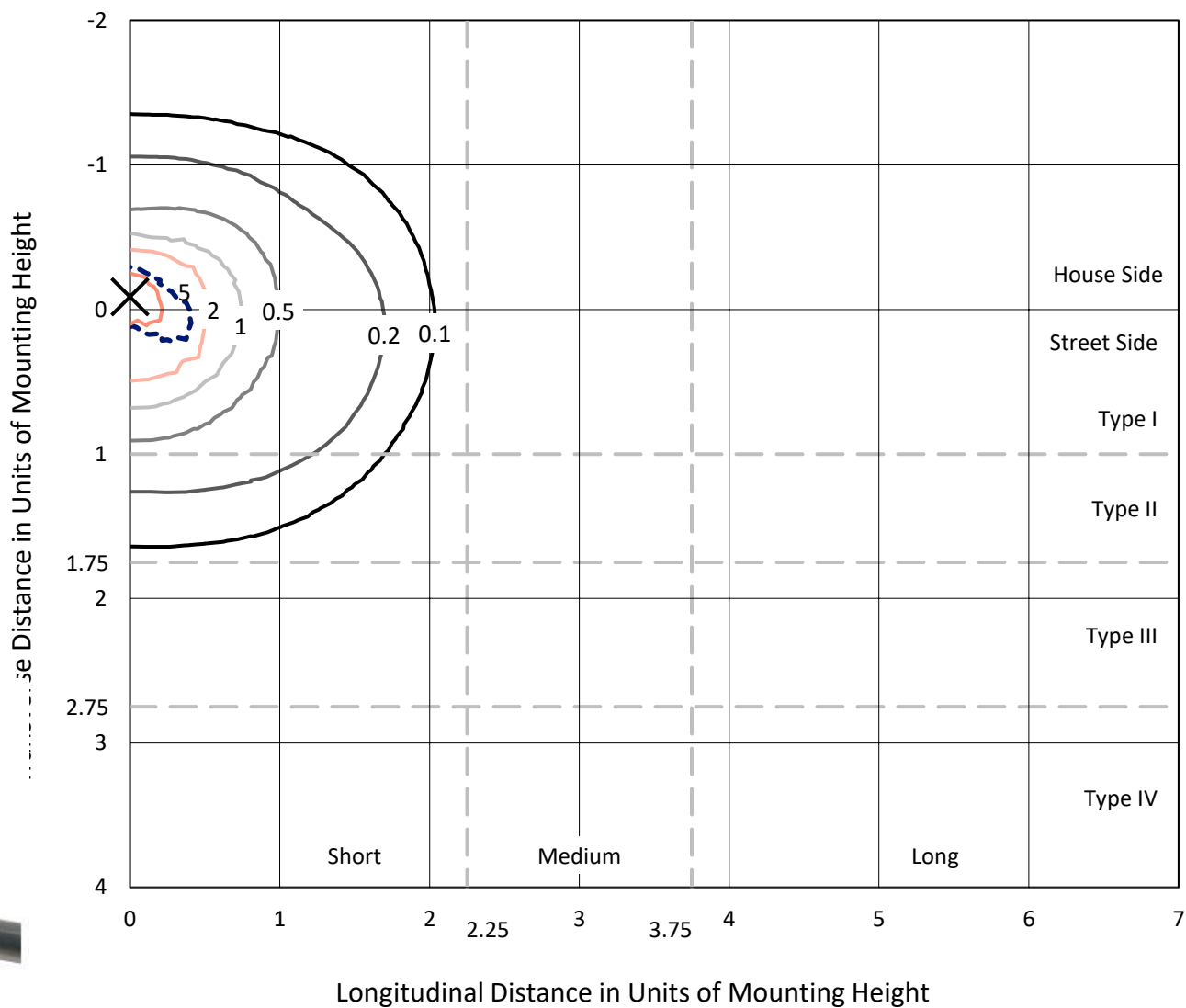
REPORT NUMBER: P690853

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



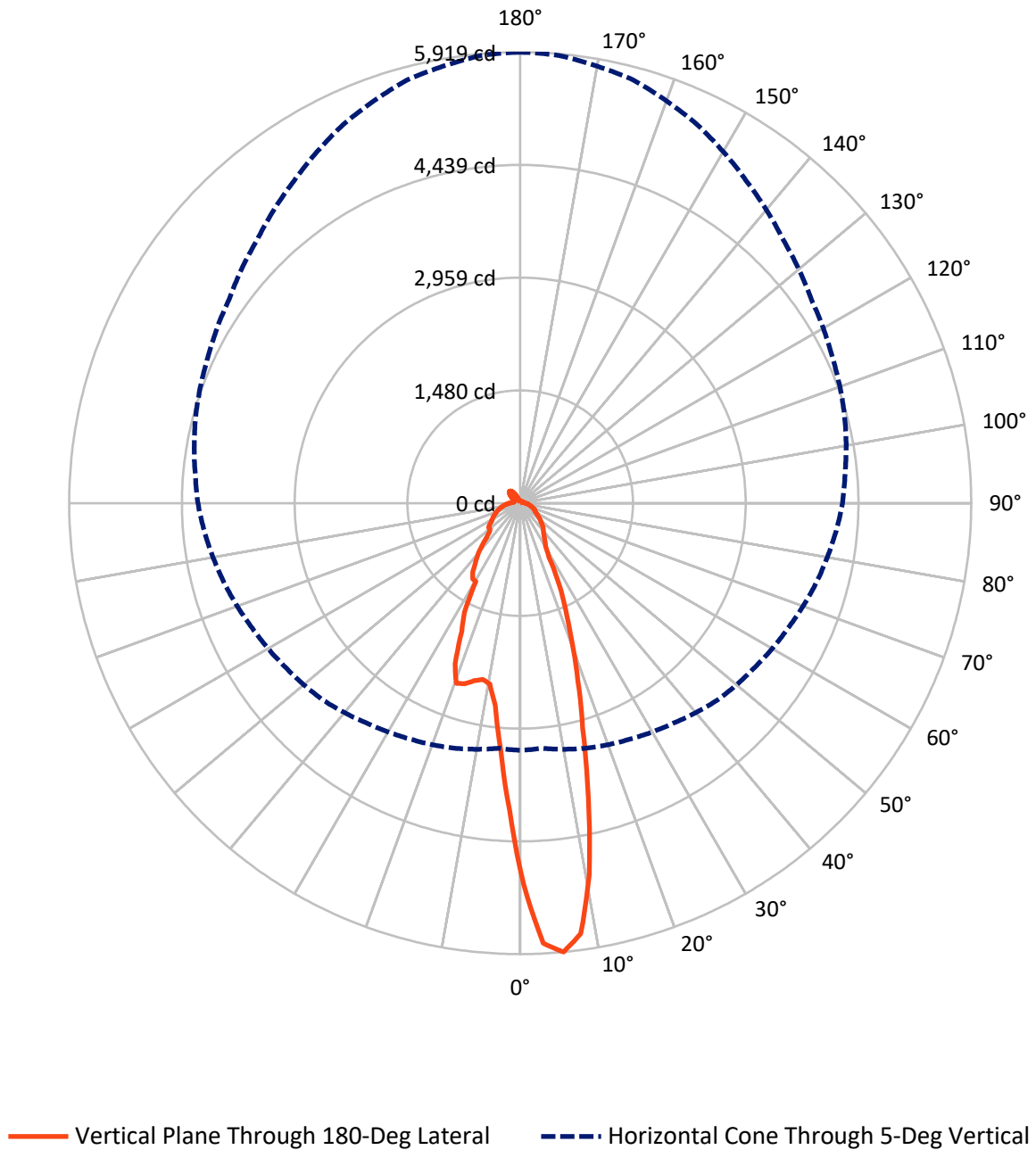
Based on 25 foot mounting height. Maximum calculated value = 9 fc

Type I - Short - N/A

REPORT NUMBER: P690853

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P690853

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

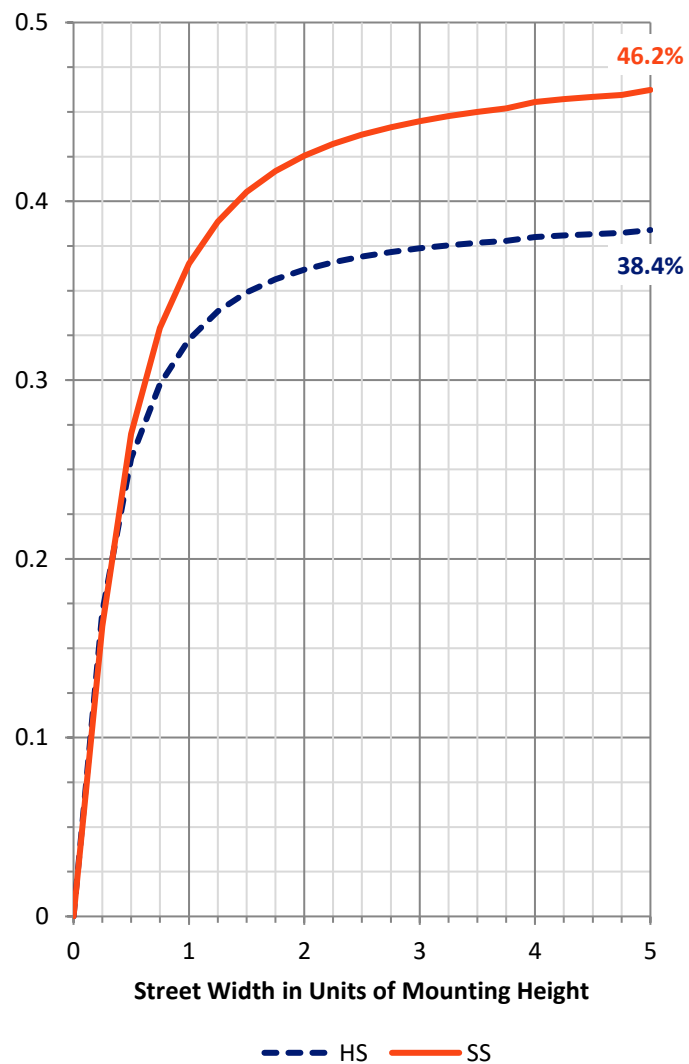
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2239.2	262.9	2502.1
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2691.2	488.7	3179.9
	% Fixture	47.4	8.6	56.0
Total	Lumens	4930.4	751.6	5682.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.7	6.8
10°-20°	820.5	14.4
20°-30°	892.9	15.7
30°-40°	653.6	11.5
40°-50°	549.5	9.7
50°-60°	558.0	9.8
60°-70°	474.4	8.3
70°-80°	354.0	6.2
80°-90°	240.9	4.2
90°-100°	144.7	2.5
100°-110°	82.9	1.5
110°-120°	76.4	1.3
120°-130°	110.9	2.0
130°-140°	152.6	2.7
140°-150°	126.3	2.2
150°-160°	51.4	0.9
160°-170°	6.4	0.1
170°-180°	0.0	0.0
0°-90°	4930.4	86.8
0°-180°	5682.0	100.0

Coefficient of Utilization



REPORT NUMBER: P690853

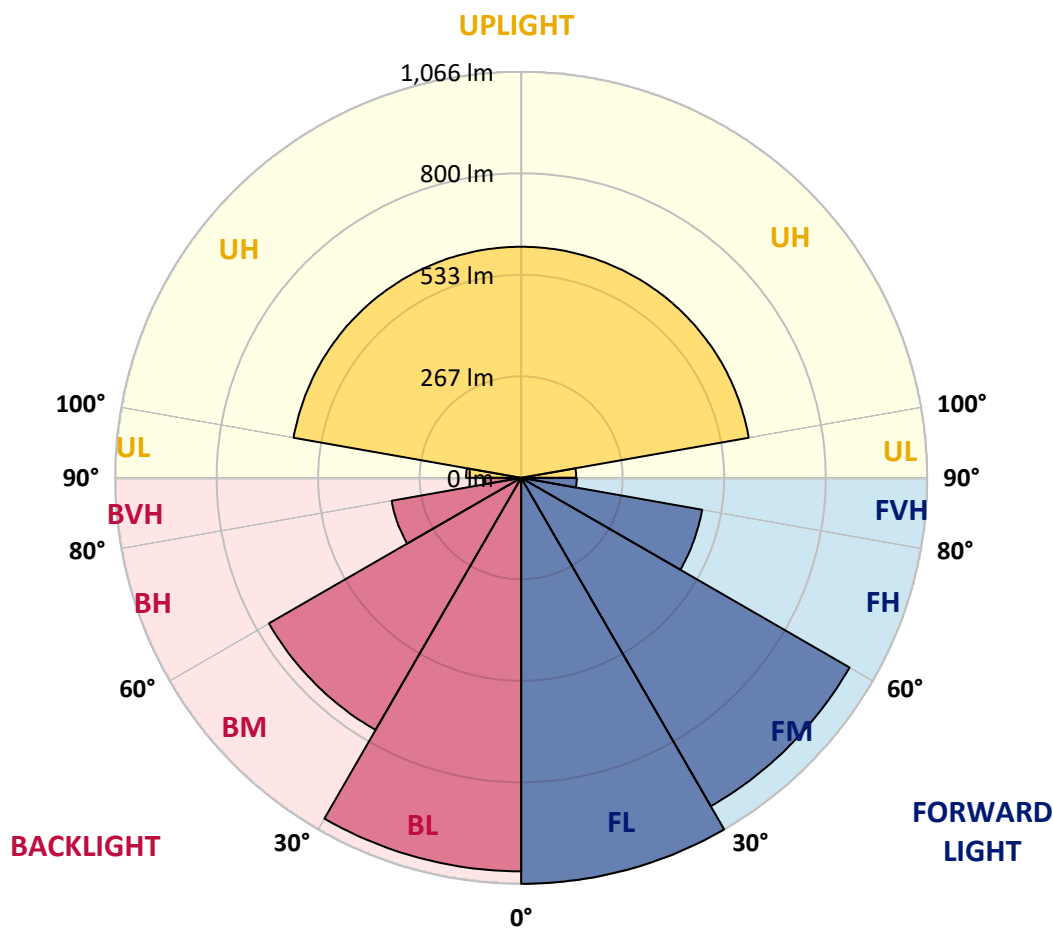
CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1066.4	18.8			
FM	(30°-60°)	996.1	17.5			
FH	(60°-80°)	482.7	8.5			G0/660
FVH	(80°-90°)	145.9	2.6			G2/225
BL	(0°-30°)	1033.6	18.2	B3/2500		
BM	(30°-60°)	765.0	13.5	B1/1000		
BH	(60°-80°)	345.6	6.1	B1/500		G1/500
BVH	(80°-90°)	95.0	1.7			G1/100
UL	(90°-100°)	144.7	2.5		U3/500	
UH	(100°-180°)	606.9	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short



REPORT NUMBER: P690853

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9
2.5°	4028.3	4020.7	4076.4	4089.0	4094.1	4152.3	4230.7	4283.9	4380.0	4473.6	4511.6
5°	3243.9	3228.7	3329.9	3416.0	3519.7	3656.3	3757.6	3879.0	4023.2	4162.4	4228.2
7.5°	2674.6	2694.8	2839.0	3016.2	3183.2	3345.1	3469.1	3572.8	3656.3	3744.9	3762.6
10°	2406.4	2424.1	2565.8	2735.3	2889.6	3054.1	3160.4	3249.0	3302.1	3367.9	3390.7
12.5°	2363.3	2376.0	2472.1	2591.1	2707.5	2856.8	2990.9	3089.5	3150.3	3203.4	3208.5
15°	2406.4	2411.4	2469.6	2548.1	2649.3	2773.3	2927.6	3038.9	3107.3	3130.0	3125.0
17.5°	2477.2	2477.2	2505.0	2570.8	2667.0	2785.9	2932.7	3046.5	3117.4	3127.5	3107.3
20°	2507.6	2512.6	2530.3	2603.7	2689.8	2798.6	2945.3	3041.5	3097.1	3069.3	3033.9
22.5°	2279.8	2269.7	2317.8	2472.1	2664.4	2859.3	2998.5	3107.3	3137.6	3044.0	2968.1
25°	1844.6	1849.7	1880.0	1956.0	2105.2	2284.9	2593.6	2925.1	3155.3	3119.9	3006.0
27.5°	1609.3	1594.1	1601.7	1614.4	1594.1	1556.2	1591.6	1584.0	1578.9	1670.0	1680.1
30°	1181.7	1184.2	1196.9	1219.6	1267.7	1338.5	1414.5	1457.5	1495.4	1566.3	1556.2
32.5°	1174.1	1176.6	1184.2	1204.4	1229.7	1277.8	1325.9	1343.6	1384.1	1442.3	1424.6
35°	1098.2	1090.6	1110.8	1128.5	1136.1	1156.4	1194.3	1219.6	1244.9	1285.4	1275.3
37.5°	974.2	976.7	1017.2	1045.0	1052.6	1080.5	1115.9	1136.1	1164.0	1199.4	1181.7
40°	867.9	870.4	918.5	948.9	966.6	1004.5	1057.7	1083.0	1128.5	1156.4	1136.1
42.5°	746.5	756.6	789.5	824.9	835.0	857.8	893.2	926.1	984.3	1022.3	1009.6
45°	622.5	627.5	650.3	685.7	700.9	726.2	759.1	789.5	835.0	865.4	862.8
47.5°	549.1	554.1	574.4	604.8	635.1	668.0	703.4	733.8	776.8	802.1	792.0
50°	518.7	523.8	549.1	584.5	622.5	665.5	708.5	741.4	781.9	797.1	784.4
52.5°	523.8	523.8	559.2	604.8	657.9	716.1	769.2	809.7	842.6	852.7	824.9
55°	495.9	503.5	541.5	604.8	685.7	776.8	867.9	953.9	1002.0	991.9	938.8
57.5°	452.9	460.5	488.4	556.7	642.7	751.5	880.6	986.8	1045.0	1052.6	999.5
60°	427.6	432.7	458.0	511.1	587.0	675.6	792.0	878.0	943.8	964.1	926.1
62.5°	404.9	409.9	430.2	470.6	526.3	594.6	660.4	716.1	769.2	789.5	774.3
65°	379.6	382.1	402.3	437.7	483.3	541.5	597.2	637.6	680.7	693.3	675.6
67.5°	354.2	356.8	374.5	407.4	450.4	503.5	546.6	592.1	635.1	645.2	632.6
70°	331.5	334.0	349.2	379.6	417.5	468.1	508.6	539.0	582.0	592.1	576.9
72.5°	308.7	311.2	326.4	354.2	389.7	435.2	470.6	501.0	536.4	539.0	526.3
75°	285.9	288.5	301.1	326.4	356.8	402.3	435.2	460.5	490.9	490.9	475.7
77.5°	260.6	265.7	275.8	298.6	326.4	369.4	399.8	425.1	450.4	447.9	432.7
80°	237.9	240.4	250.5	270.7	296.0	336.5	366.9	387.1	409.9	407.4	394.7
82.5°	212.5	215.1	222.7	242.9	265.7	303.6	334.0	354.2	374.5	369.4	356.8
85°	187.2	189.8	199.9	215.1	237.9	273.3	301.1	321.4	336.5	331.5	321.4
87.5°	167.0	167.0	174.6	189.8	210.0	242.9	268.2	288.5	301.1	298.6	288.5
90°	144.2	146.8	151.8	164.5	182.2	210.0	235.3	253.0	265.7	260.6	250.5
92.5°	126.5	126.5	131.6	144.2	159.4	184.7	207.5	222.7	232.8	230.3	222.7
95°	108.8	111.3	113.9	124.0	136.6	156.9	177.1	192.3	202.4	199.9	194.8
97.5°	96.2	98.7	101.2	106.3	118.9	131.6	149.3	161.9	172.1	169.5	164.5
100°	88.6	88.6	88.6	93.6	101.2	111.3	124.0	134.1	139.2	141.7	136.6
102.5°	81.0	81.0	83.5	83.5	88.6	93.6	101.2	108.8	111.3	111.3	111.3
105°	78.4	78.4	81.0	81.0	83.5	86.0	91.1	93.6	96.2	96.2	93.6
107.5°	78.4	78.4	78.4	78.4	81.0	83.5	86.0	88.6	88.6	88.6	86.0
110°	81.0	81.0	81.0	81.0	81.0	83.5	83.5	86.0	86.0	83.5	83.5

REPORT NUMBER: P690853

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	83.5	83.5	83.5	83.5	83.5	86.0	86.0	86.0	86.0	83.5	83.5
115°	88.6	88.6	88.6	91.1	91.1	91.1	91.1	91.1	91.1	88.6	86.0
117.5°	98.7	98.7	98.7	98.7	101.2	101.2	101.2	101.2	101.2	96.2	96.2
120°	111.3	108.8	111.3	113.9	116.4	116.4	116.4	116.4	116.4	111.3	108.8
122.5°	124.0	124.0	126.5	131.6	136.6	139.2	136.6	136.6	136.6	129.0	126.5
125°	139.2	139.2	146.8	156.9	164.5	167.0	164.5	164.5	164.5	156.9	151.8
127.5°	156.9	156.9	167.0	182.2	194.8	202.4	199.9	199.9	199.9	187.2	179.7
130°	174.6	174.6	189.8	210.0	230.3	235.3	237.9	240.4	240.4	225.2	215.1
132.5°	187.2	189.8	207.5	235.3	260.6	268.2	275.8	278.3	278.3	260.6	245.4
135°	199.9	202.4	225.2	258.1	285.9	303.6	311.2	313.8	316.3	296.0	278.3
137.5°	207.5	210.0	235.3	273.3	301.1	323.9	341.6	346.7	346.7	323.9	301.1
140°	207.5	210.0	237.9	273.3	303.6	331.5	351.7	361.8	361.8	339.1	318.8
142.5°	202.4	207.5	232.8	268.2	298.6	326.4	349.2	359.3	359.3	339.1	318.8
145°	192.3	194.8	220.1	250.5	280.9	313.8	339.1	349.2	349.2	328.9	308.7
147.5°	174.6	177.1	197.4	225.2	255.6	288.5	313.8	326.4	323.9	306.2	288.5
150°	151.8	151.8	169.5	192.3	222.7	253.0	278.3	291.0	291.0	273.3	258.1
152.5°	124.0	124.0	136.6	154.4	179.7	210.0	230.3	242.9	242.9	230.3	217.6
155°	96.2	96.2	106.3	118.9	139.2	161.9	177.1	189.8	189.8	179.7	169.5
157.5°	68.3	68.3	78.4	88.6	103.7	121.5	134.1	141.7	144.2	134.1	129.0
160°	45.5	45.5	50.6	58.2	70.8	83.5	91.1	98.7	101.2	93.6	91.1
162.5°	25.3	25.3	27.8	35.4	43.0	50.6	58.2	63.3	63.3	60.7	58.2
165°	7.6	7.6	10.1	12.7	17.7	22.8	25.3	27.8	30.4	30.4	27.8
167.5°	0.0	0.0	2.5	2.5	2.5	2.5	5.1	5.1	7.6	7.6	7.6
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: P690853

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9	4994.9
2.5°	4590.0	4731.7	4886.1	5035.4	5217.6	5407.3	5581.9	5700.9	5764.1	5784.4	5784.4
5°	4278.8	4407.9	4521.7	4663.4	4883.6	5169.5	5485.8	5748.9	5898.2	5915.9	5918.5
7.5°	3793.0	3899.3	4018.2	4144.7	4339.5	4595.1	5012.6	5437.7	5680.6	5726.2	5708.4
10°	3395.7	3461.5	3532.4	3580.4	3717.1	3906.8	4190.2	4607.7	4906.3	4941.8	4967.1
12.5°	3211.0	3221.1	3200.9	3211.0	3256.5	3345.1	3484.3	3724.7	3919.5	3952.4	3970.1
15°	3117.4	3066.8	2985.8	2909.9	2869.4	2877.0	2907.4	3006.0	3038.9	3094.6	3069.3
17.5°	3074.4	2960.5	2834.0	2687.2	2596.1	2502.5	2451.9	2434.2	2421.5	2424.1	2446.8
20°	2965.6	2836.5	2634.1	2441.8	2295.0	2166.0	2057.2	1978.7	1935.7	1915.5	1930.6
22.5°	2851.7	2651.8	2413.9	2206.5	1996.4	1832.0	1708.0	1594.1	1530.9	1548.6	1528.3
25°	2854.2	2555.6	2272.2	1999.0	1801.6	1584.0	1386.6	1267.7	1164.0	1184.2	1212.0
27.5°	1799.1	1720.6	1518.2	1358.8	1161.4	1052.6	953.9	870.4	812.2	814.8	807.2
30°	1525.8	1444.8	1343.6	1217.1	1067.8	941.3	827.4	731.3	675.6	660.4	657.9
32.5°	1409.4	1341.1	1247.5	1123.5	986.8	860.3	746.5	657.9	602.2	599.7	599.7
35°	1255.0	1191.8	1113.3	1007.1	890.7	774.3	668.0	592.1	546.6	546.6	544.0
37.5°	1158.9	1103.2	1027.3	928.6	824.9	708.5	614.9	546.6	498.5	495.9	498.5
40°	1108.3	1050.1	976.7	883.1	779.3	668.0	579.4	508.6	473.2	470.6	468.1
42.5°	1007.1	961.5	898.3	812.2	721.1	622.5	539.0	475.7	445.3	442.8	445.3
45°	855.3	822.4	779.3	716.1	640.2	556.7	483.3	435.2	404.9	404.9	404.9
47.5°	784.4	754.0	706.0	642.7	576.9	498.5	437.7	397.3	369.4	369.4	369.4
50°	766.7	728.7	665.5	594.6	523.8	455.5	399.8	359.3	339.1	336.5	339.1
52.5°	792.0	733.8	647.8	564.3	485.8	420.0	366.9	328.9	308.7	308.7	308.7
55°	883.1	776.8	662.9	556.7	463.1	389.7	336.5	298.6	278.3	275.8	278.3
57.5°	943.8	809.7	668.0	549.1	447.9	369.4	311.2	270.7	250.5	248.0	250.5
60°	890.7	781.9	645.2	528.8	435.2	354.2	293.5	253.0	232.8	230.3	230.3
62.5°	738.9	675.6	576.9	478.2	402.3	331.5	275.8	237.9	217.6	215.1	217.6
65°	655.4	599.7	513.7	435.2	369.4	308.7	260.6	227.7	207.5	207.5	207.5
67.5°	609.8	559.2	478.2	402.3	341.6	285.9	240.4	210.0	192.3	192.3	192.3
70°	556.7	506.1	432.7	364.4	308.7	260.6	220.1	189.8	174.6	172.1	174.6
72.5°	511.1	460.5	392.2	328.9	278.3	235.3	199.9	172.1	159.4	156.9	159.4
75°	460.5	412.4	346.7	291.0	248.0	210.0	179.7	154.4	144.2	141.7	141.7
77.5°	417.5	372.0	311.2	260.6	222.7	187.2	159.4	141.7	131.6	129.0	129.0
80°	379.6	336.5	278.3	232.8	197.4	167.0	144.2	126.5	116.4	116.4	116.4
82.5°	339.1	301.1	248.0	205.0	174.6	149.3	126.5	111.3	103.7	103.7	103.7
85°	306.2	268.2	217.6	182.2	151.8	129.0	111.3	98.7	91.1	91.1	91.1
87.5°	270.7	237.9	192.3	159.4	134.1	113.9	96.2	83.5	81.0	78.4	78.4
90°	235.3	205.0	164.5	136.6	113.9	96.2	81.0	70.8	68.3	65.8	65.8
92.5°	210.0	182.2	149.3	124.0	103.7	86.0	75.9	65.8	63.3	63.3	60.7
95°	182.2	159.4	131.6	111.3	93.6	81.0	70.8	63.3	60.7	60.7	58.2
97.5°	156.9	136.6	116.4	101.2	86.0	75.9	65.8	60.7	55.7	55.7	55.7
100°	131.6	116.4	101.2	86.0	78.4	68.3	60.7	55.7	53.1	50.6	50.6
102.5°	106.3	96.2	83.5	75.9	65.8	58.2	53.1	48.1	45.5	45.5	45.5
105°	91.1	83.5	75.9	68.3	60.7	53.1	48.1	43.0	40.5	40.5	40.5
107.5°	83.5	78.4	70.8	63.3	58.2	50.6	45.5	38.0	35.4	38.0	38.0
110°	81.0	75.9	68.3	63.3	55.7	50.6	45.5	35.4	32.9	35.4	35.4

REPORT NUMBER: P690853

CATALOG NUMBER: CRTK2-C01-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	81.0	75.9	70.8	63.3	58.2	50.6	45.5	35.4	32.9	32.9	32.9
115°	83.5	81.0	73.4	68.3	60.7	53.1	45.5	35.4	32.9	32.9	32.9
117.5°	93.6	88.6	81.0	73.4	65.8	55.7	48.1	35.4	32.9	32.9	32.9
120°	103.7	98.7	91.1	81.0	70.8	60.7	50.6	35.4	30.4	32.9	32.9
122.5°	121.5	113.9	103.7	91.1	78.4	65.8	50.6	38.0	27.8	32.9	32.9
125°	144.2	134.1	118.9	101.2	86.0	70.8	53.1	38.0	30.4	32.9	32.9
127.5°	169.5	156.9	136.6	113.9	93.6	73.4	55.7	38.0	30.4	30.4	32.9
130°	202.4	182.2	154.4	126.5	101.2	78.4	55.7	38.0	30.4	30.4	30.4
132.5°	230.3	205.0	169.5	136.6	106.3	81.0	55.7	38.0	27.8	27.8	27.8
135°	258.1	225.2	182.2	144.2	111.3	81.0	55.7	35.4	27.8	27.8	27.8
137.5°	280.9	237.9	192.3	146.8	111.3	78.4	53.1	32.9	25.3	25.3	25.3
140°	293.5	245.4	194.8	146.8	106.3	75.9	48.1	30.4	22.8	22.8	22.8
142.5°	293.5	242.9	192.3	141.7	101.2	70.8	43.0	25.3	20.2	20.2	20.2
145°	283.4	232.8	182.2	134.1	93.6	63.3	38.0	22.8	15.2	15.2	17.7
147.5°	265.7	215.1	167.0	121.5	83.5	53.1	32.9	17.7	12.7	12.7	12.7
150°	235.3	189.8	144.2	106.3	70.8	45.5	27.8	15.2	10.1	10.1	10.1
152.5°	197.4	156.9	121.5	88.6	58.2	35.4	20.2	12.7	7.6	7.6	7.6
155°	156.9	124.0	96.2	68.3	43.0	27.8	15.2	10.1	7.6	7.6	7.6
157.5°	116.4	93.6	70.8	50.6	32.9	20.2	12.7	7.6	5.1	5.1	5.1
160°	81.0	65.8	48.1	32.9	20.2	12.7	7.6	5.1	2.5	2.5	2.5
162.5°	53.1	40.5	30.4	20.2	12.7	7.6	5.1	2.5	2.5	2.5	2.5
165°	25.3	20.2	15.2	10.1	5.1	5.1	2.5	2.5	0.0	0.0	0.0
167.5°	7.6	5.1	2.5	2.5	2.5	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)