

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: P691414

Luminaire Tested: **CRTK2-C016-5TLD-U-T3-7030-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691414
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-C016-5TLD-U-T3-7030-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5030 lumens
Efficiency: N/A
Efficacy: 117.5 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



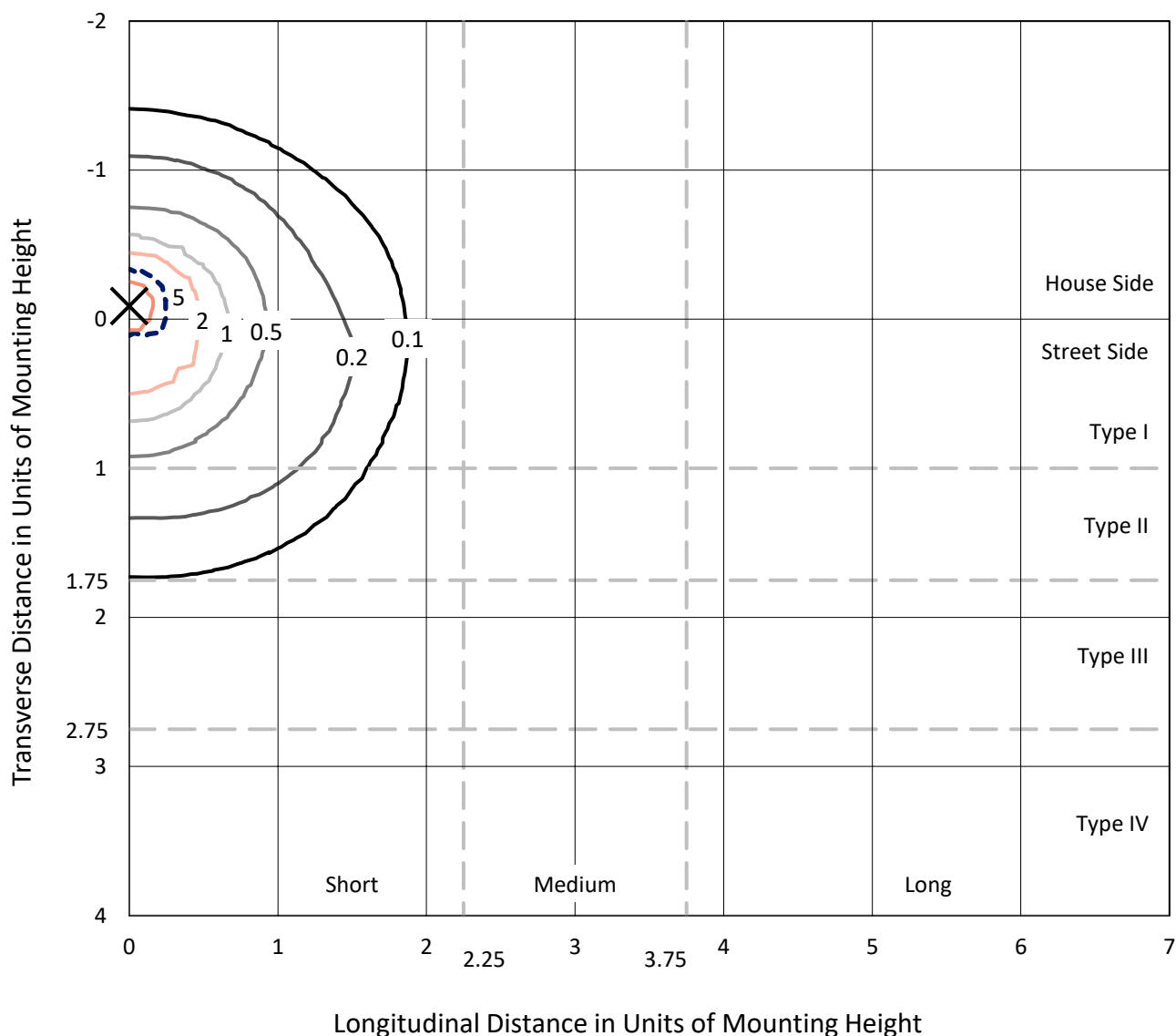
REPORT NUMBER: P691414

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7030-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

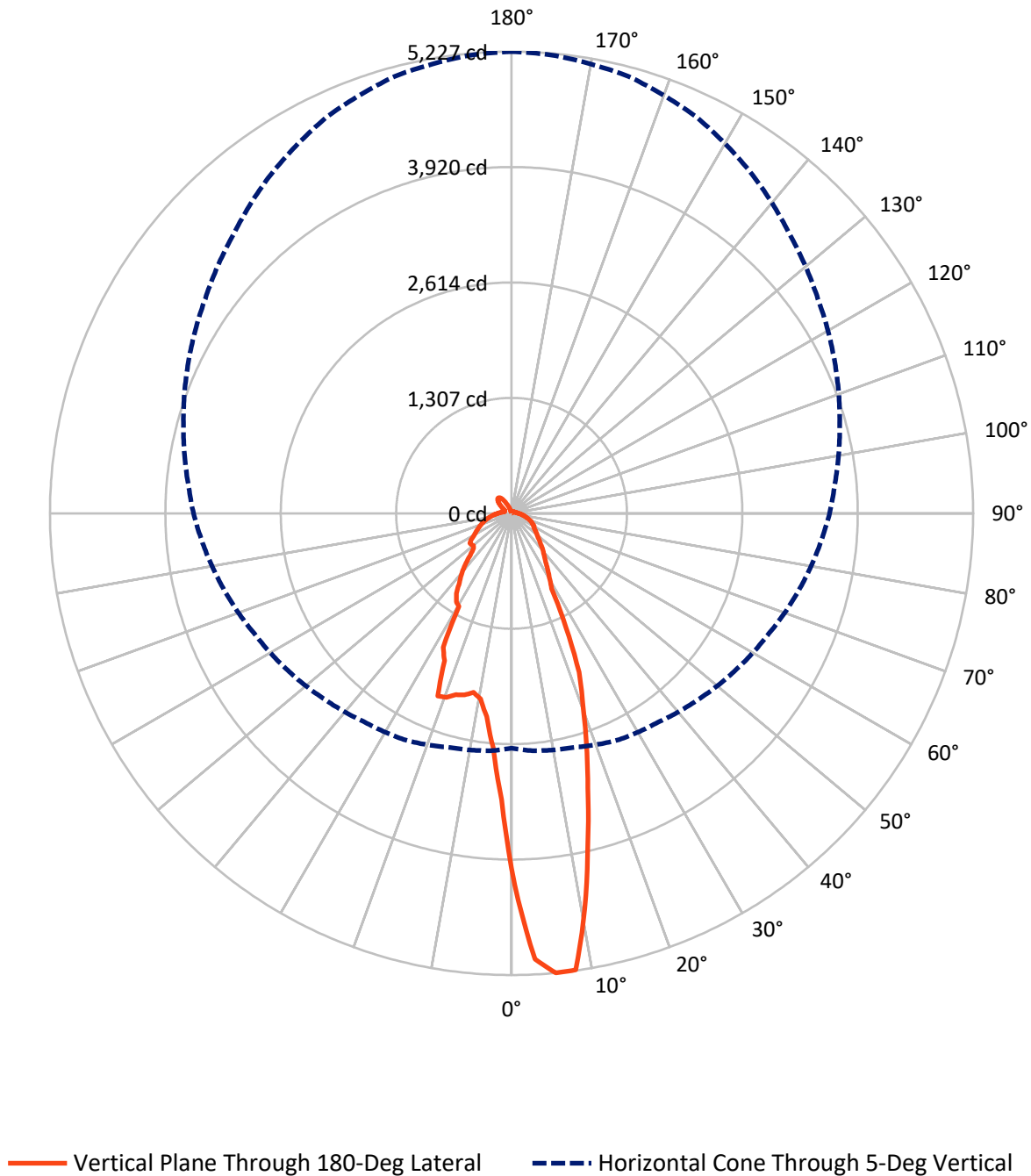


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc

Type I - Short - N/A

REPORT NUMBER: P691414
CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7030-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P691414

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7030-RMARROA5

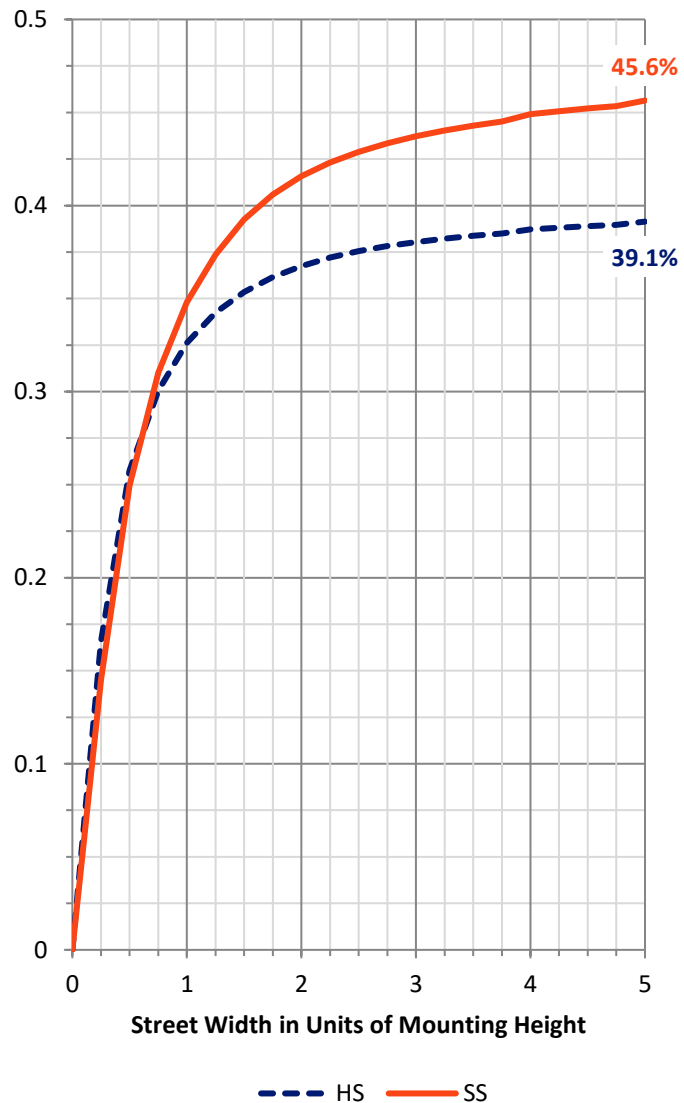
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.7	216.8	2238.4
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	2359.2	432.4	2791.6
	% Fixture	46.9	8.6	55.5
Total	Lumens	4380.9	649.1	5030.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	6.7
10°-20°	725.1	14.4
20°-30°	798.4	15.9
30°-40°	586.7	11.7
40°-50°	491.6	9.8
50°-60°	493.2	9.8
60°-70°	422.4	8.4
70°-80°	314.7	6.3
80°-90°	210.6	4.2
90°-100°	125.1	2.5
100°-110°	72.6	1.4
110°-120°	67.5	1.3
120°-130°	98.0	1.9
130°-140°	131.8	2.6
140°-150°	106.8	2.1
150°-160°	42.2	0.8
160°-170°	5.1	0.1
170°-180°	0.0	0.0
0°-90°	4380.9	87.1
0°-180°	5030.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691414

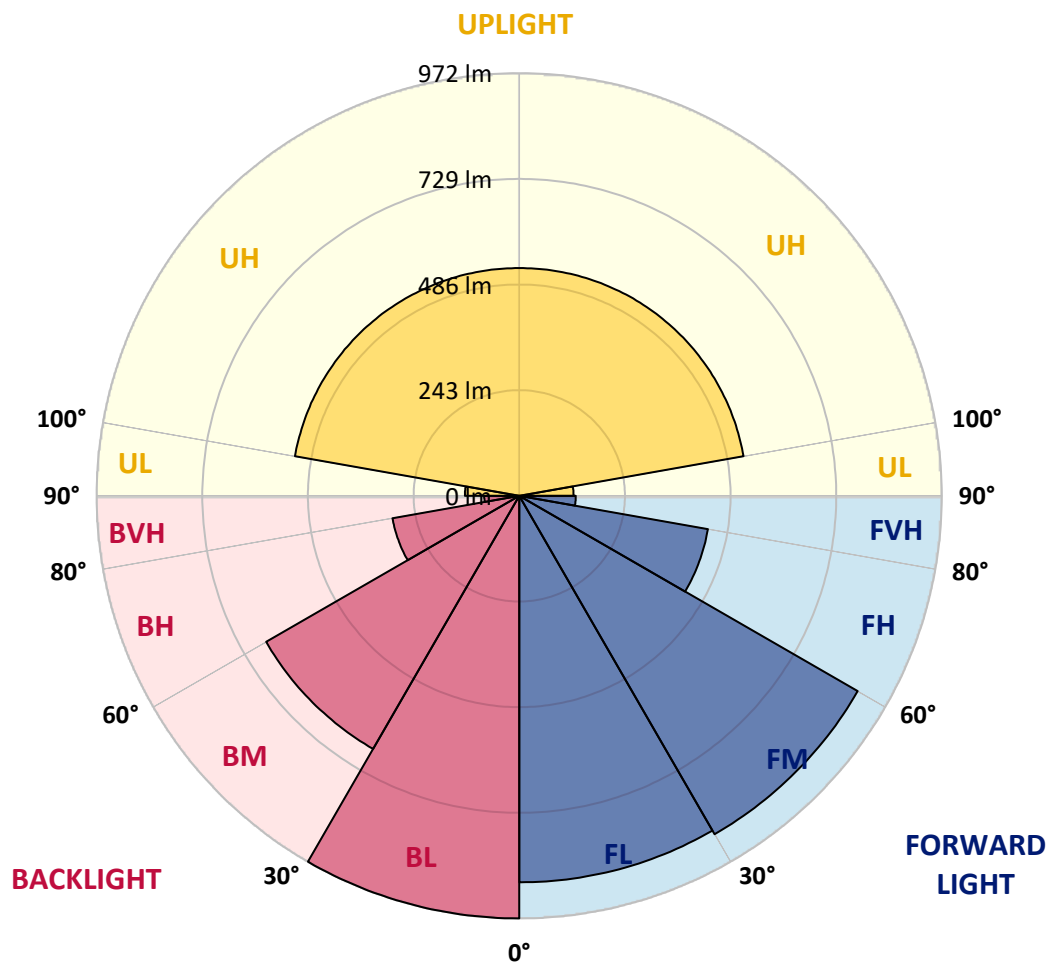
CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7030-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	889.3	17.7			
FM	(30°-60°)	899.1	17.9			
FH	(60°-80°)	440.8	8.8			G0/660
FVH	(80°-90°)	130.0	2.6			G2/225
BL	(0°-30°)	972.4	19.3	B2/1000		
BM	(30°-60°)	672.4	13.4	B1/1000		
BH	(60°-80°)	296.3	5.9	B1/500		G1/500
BVH	(80°-90°)	80.6	1.6			G1/100
UL	(90°-100°)	125.1	2.5		U3/500	
UH	(100°-180°)	524.1	10.4		U4/1000	

BUG Rating: B2-U4-G2

Type I Short





REPORT NUMBER: P691414

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7030-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6
2.5°	3243.8	3291.8	3315.7	3387.6	3411.6	3457.6	3527.5	3597.4	3715.2	3803.1	3871.0
5°	2658.6	2698.5	2742.5	2834.4	2888.3	2984.2	3096.0	3215.9	3367.7	3521.5	3601.4
7.5°	2317.0	2327.0	2390.9	2502.8	2600.7	2702.5	2824.4	2928.2	3032.1	3157.9	3237.8
10°	2129.3	2143.2	2185.2	2271.1	2355.0	2438.9	2534.7	2614.6	2720.5	2826.4	2874.3
12.5°	2073.3	2079.3	2115.3	2165.2	2219.2	2273.1	2347.0	2418.9	2512.8	2604.7	2636.6
15°	2123.3	2123.3	2129.3	2149.2	2177.2	2219.2	2275.1	2337.0	2422.9	2490.8	2524.8
17.5°	2147.2	2149.2	2165.2	2169.2	2195.2	2213.2	2263.1	2311.0	2392.9	2448.9	2466.8
20°	2211.2	2211.2	2213.2	2223.1	2227.1	2237.1	2259.1	2285.1	2353.0	2382.9	2378.9
22.5°	2231.1	2223.1	2255.1	2313.0	2311.0	2313.0	2293.1	2299.0	2337.0	2325.0	2297.1
25°	1831.6	1821.7	1857.6	1893.6	1945.5	2011.4	2175.2	2303.0	2351.0	2313.0	2251.1
27.5°	1703.8	1659.9	1649.9	1564.0	1486.1	1358.3	1346.3	1266.4	1258.4	1308.3	1354.3
30°	1210.4	1212.4	1210.4	1202.5	1196.5	1202.5	1208.4	1194.5	1198.5	1230.4	1216.4
32.5°	1180.5	1180.5	1172.5	1168.5	1150.5	1144.5	1134.5	1108.6	1112.6	1136.5	1130.5
35°	1100.6	1096.6	1098.6	1088.6	1056.6	1030.7	1026.7	1004.7	1004.7	1018.7	1012.7
37.5°	980.7	974.7	998.7	996.7	970.8	960.8	950.8	936.8	936.8	948.8	936.8
40°	886.9	882.9	908.8	916.8	900.8	904.8	906.8	894.9	906.8	908.8	892.9
42.5°	787.0	785.0	807.0	805.0	791.0	789.0	787.0	779.0	799.0	815.0	803.0
45°	669.1	663.1	679.1	685.1	681.1	675.1	673.1	673.1	685.1	693.1	681.1
47.5°	591.2	593.2	605.2	619.2	623.2	627.2	625.2	621.2	629.2	631.2	621.2
50°	565.3	567.3	585.2	601.2	613.2	621.2	621.2	615.2	621.2	615.2	601.2
52.5°	577.3	577.3	601.2	625.2	645.2	659.2	661.2	653.2	653.2	637.2	615.2
55°	581.3	585.2	617.2	657.2	693.1	731.1	749.0	743.0	749.0	715.1	679.1
57.5°	543.3	553.3	585.2	633.2	681.1	741.0	779.0	783.0	781.0	751.0	707.1
60°	493.4	501.4	523.3	565.3	611.2	659.2	697.1	705.1	713.1	699.1	659.2
62.5°	459.4	463.4	481.4	511.3	543.3	569.3	583.3	581.3	589.2	585.2	555.3
65°	429.4	431.4	451.4	475.4	495.4	521.3	525.3	525.3	531.3	523.3	499.4
67.5°	397.5	397.5	413.5	435.4	459.4	481.4	487.4	489.4	497.4	489.4	471.4
70°	369.5	369.5	383.5	401.5	419.5	441.4	447.4	449.4	459.4	449.4	431.4
72.5°	343.6	343.6	355.5	371.5	387.5	405.5	411.5	413.5	421.5	411.5	397.5
75°	315.6	317.6	327.6	341.6	355.5	371.5	379.5	379.5	385.5	373.5	361.5
77.5°	287.6	289.6	299.6	311.6	323.6	339.6	343.6	345.6	351.5	339.6	327.6
80°	259.7	263.7	271.7	281.6	293.6	305.6	313.6	313.6	317.6	305.6	297.6
82.5°	233.7	237.7	243.7	251.7	263.7	275.6	283.6	283.6	285.6	275.6	265.7
85°	207.7	211.7	217.7	223.7	233.7	245.7	253.7	253.7	255.7	245.7	237.7
87.5°	183.8	187.8	191.8	197.7	205.7	217.7	225.7	225.7	225.7	217.7	209.7
90°	159.8	161.8	165.8	171.8	179.8	189.8	195.7	197.7	197.7	187.8	183.8
92.5°	141.8	141.8	145.8	149.8	157.8	165.8	171.8	173.8	173.8	167.8	161.8
95°	121.8	123.8	125.8	129.8	135.8	141.8	149.8	149.8	149.8	145.8	141.8
97.5°	107.9	105.9	107.9	109.9	115.9	119.8	125.8	127.8	127.8	123.8	121.8
100°	91.9	93.9	93.9	95.9	97.9	99.9	103.9	105.9	105.9	103.9	103.9
102.5°	85.9	83.9	83.9	83.9	83.9	83.9	85.9	85.9	87.9	85.9	83.9
105°	79.9	79.9	79.9	79.9	77.9	77.9	77.9	77.9	75.9	73.9	73.9
107.5°	77.9	77.9	77.9	77.9	75.9	75.9	73.9	73.9	71.9	69.9	67.9
110°	77.9	77.9	77.9	77.9	75.9	73.9	73.9	71.9	69.9	67.9	65.9



REPORT NUMBER: P691414

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	81.9	81.9	81.9	81.9	77.9	75.9	73.9	73.9	69.9	67.9	65.9
115°	89.9	89.9	87.9	87.9	85.9	81.9	79.9	77.9	75.9	71.9	69.9
117.5°	97.9	97.9	97.9	97.9	95.9	91.9	87.9	85.9	83.9	77.9	75.9
120°	111.9	111.9	111.9	113.9	109.9	105.9	101.9	97.9	95.9	89.9	85.9
122.5°	129.8	127.8	131.8	133.8	131.8	125.8	119.8	115.9	111.9	103.9	99.9
125°	147.8	147.8	151.8	157.8	157.8	151.8	143.8	137.8	133.8	121.8	115.9
127.5°	169.8	169.8	175.8	185.8	187.8	181.8	173.8	165.8	159.8	143.8	137.8
130°	189.8	189.8	201.7	213.7	219.7	213.7	205.7	195.7	187.8	169.8	159.8
132.5°	205.7	207.7	221.7	237.7	245.7	243.7	233.7	225.7	217.7	195.7	183.8
135°	221.7	223.7	239.7	259.7	269.7	269.7	261.7	251.7	241.7	217.7	203.7
137.5°	229.7	231.7	251.7	271.7	283.6	287.6	283.6	273.6	263.7	237.7	219.7
140°	229.7	233.7	253.7	273.6	285.6	291.6	291.6	281.6	271.7	247.7	229.7
142.5°	223.7	227.7	245.7	265.7	277.6	285.6	287.6	279.6	269.7	245.7	227.7
145°	211.7	213.7	231.7	249.7	261.7	271.7	275.6	269.7	257.7	237.7	219.7
147.5°	191.8	191.8	207.7	221.7	237.7	247.7	253.7	249.7	239.7	221.7	205.7
150°	163.8	163.8	175.8	189.8	203.7	215.7	221.7	221.7	211.7	197.7	181.8
152.5°	129.8	131.8	139.8	151.8	165.8	175.8	183.8	183.8	177.8	165.8	151.8
155°	99.9	99.9	105.9	113.9	125.8	135.8	141.8	141.8	137.8	127.8	119.8
157.5°	71.9	71.9	75.9	83.9	91.9	99.9	105.9	105.9	101.9	95.9	89.9
160°	47.9	47.9	49.9	55.9	61.9	67.9	71.9	73.9	71.9	67.9	61.9
162.5°	26.0	26.0	28.0	32.0	36.0	41.9	43.9	45.9	45.9	41.9	39.9
165°	8.0	8.0	8.0	12.0	14.0	18.0	20.0	22.0	22.0	22.0	20.0
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	6.0	6.0	6.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	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: P691414

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6	4210.6
2.5°	3934.9	4082.8	4246.5	4414.3	4586.1	4747.9	4883.7	4991.6	5049.5	5063.5	5055.5
5°	3673.3	3847.1	4038.8	4234.6	4458.3	4715.9	4951.6	5121.4	5209.3	5223.3	5227.3
7.5°	3299.8	3451.6	3639.3	3865.0	4146.7	4422.3	4785.9	5039.5	5181.3	5219.3	5219.3
10°	2906.3	3040.1	3157.9	3355.7	3601.4	3859.0	4168.6	4402.3	4546.2	4592.1	4552.2
12.5°	2684.6	2742.5	2822.4	2968.2	3122.0	3317.7	3585.4	3737.2	3831.1	3859.0	3835.1
15°	2542.7	2572.7	2606.7	2668.6	2776.4	2898.3	3056.1	3150.0	3207.9	3241.8	3229.9
17.5°	2474.8	2474.8	2468.8	2482.8	2510.8	2566.7	2674.6	2708.5	2734.5	2748.5	2740.5
20°	2371.0	2339.0	2313.0	2273.1	2257.1	2255.1	2281.1	2317.0	2315.0	2317.0	2301.0
22.5°	2267.1	2201.2	2137.3	2077.3	2009.4	1975.5	1951.5	1963.5	1953.5	1963.5	1953.5
25°	2217.2	2083.3	1955.5	1809.7	1687.8	1594.0	1532.0	1494.1	1430.2	1454.1	1432.2
27.5°	1376.2	1320.3	1266.4	1158.5	1056.6	1020.7	990.7	974.7	962.8	968.8	964.8
30°	1192.5	1146.5	1104.6	1048.7	970.8	922.8	886.9	854.9	844.9	846.9	844.9
32.5°	1106.6	1070.6	1018.7	960.8	890.9	830.9	789.0	759.0	743.0	753.0	745.0
35°	990.7	954.8	910.8	856.9	797.0	743.0	703.1	675.1	657.2	661.2	659.2
37.5°	914.8	880.9	842.9	785.0	733.1	681.1	641.2	613.2	595.2	599.2	595.2
40°	870.9	832.9	793.0	741.0	689.1	635.2	597.2	565.3	547.3	547.3	547.3
42.5°	781.0	751.0	717.1	663.1	617.2	571.3	533.3	509.3	489.4	491.4	487.4
45°	667.1	645.2	619.2	583.3	545.3	509.3	477.4	459.4	443.4	445.4	443.4
47.5°	609.2	589.2	559.3	531.3	497.4	465.4	437.4	415.5	403.5	405.5	401.5
50°	587.2	563.3	529.3	491.4	459.4	427.5	399.5	383.5	371.5	373.5	371.5
52.5°	595.2	557.3	509.3	463.4	425.5	393.5	371.5	353.5	345.6	347.6	343.6
55°	647.2	581.3	509.3	451.4	403.5	367.5	345.6	325.6	317.6	317.6	317.6
57.5°	665.1	593.2	503.4	437.4	385.5	349.6	323.6	303.6	295.6	295.6	295.6
60°	623.2	561.3	479.4	417.5	369.5	335.6	313.6	299.6	293.6	293.6	293.6
62.5°	533.3	493.4	431.4	381.5	345.6	315.6	293.6	275.6	269.7	267.7	267.7
65°	483.4	445.4	393.5	351.5	319.6	295.6	275.6	261.7	253.7	253.7	253.7
67.5°	451.4	415.5	367.5	327.6	297.6	271.7	253.7	239.7	235.7	233.7	233.7
70°	415.5	381.5	333.6	297.6	269.7	247.7	229.7	217.7	213.7	213.7	211.7
72.5°	379.5	347.6	301.6	267.7	241.7	221.7	205.7	195.7	191.8	189.8	189.8
75°	345.6	313.6	271.7	239.7	215.7	197.7	183.8	173.8	169.8	169.8	169.8
77.5°	313.6	283.6	243.7	213.7	193.8	175.8	163.8	155.8	151.8	151.8	151.8
80°	283.6	253.7	217.7	189.8	169.8	155.8	145.8	137.8	133.8	135.8	133.8
82.5°	251.7	227.7	193.8	167.8	151.8	137.8	127.8	121.8	117.8	119.8	117.8
85°	225.7	201.7	169.8	147.8	131.8	119.8	111.9	105.9	101.9	103.9	101.9
87.5°	199.7	177.8	149.8	129.8	115.9	105.9	95.9	91.9	89.9	89.9	87.9
90°	171.8	151.8	127.8	111.9	97.9	89.9	81.9	77.9	75.9	73.9	73.9
92.5°	151.8	135.8	113.9	99.9	87.9	81.9	73.9	69.9	67.9	67.9	67.9
95°	133.8	119.8	101.9	89.9	81.9	73.9	67.9	65.9	63.9	63.9	61.9
97.5°	115.9	103.9	91.9	81.9	73.9	67.9	61.9	59.9	57.9	57.9	57.9
100°	97.9	89.9	79.9	71.9	65.9	61.9	55.9	53.9	51.9	51.9	51.9
102.5°	81.9	75.9	67.9	61.9	57.9	53.9	49.9	47.9	45.9	45.9	45.9
105°	71.9	65.9	61.9	55.9	51.9	47.9	45.9	41.9	39.9	39.9	39.9
107.5°	65.9	61.9	57.9	53.9	49.9	45.9	41.9	38.0	36.0	36.0	36.0
110°	63.9	59.9	55.9	51.9	47.9	43.9	41.9	36.0	34.0	34.0	34.0



REPORT NUMBER: P691414

CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7030-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	63.9	61.9	57.9	53.9	49.9	45.9	41.9	34.0	32.0	32.0	32.0
115°	67.9	63.9	59.9	55.9	51.9	47.9	43.9	34.0	32.0	32.0	32.0
117.5°	73.9	69.9	63.9	59.9	55.9	49.9	43.9	36.0	32.0	32.0	32.0
120°	83.9	77.9	71.9	65.9	59.9	53.9	45.9	36.0	30.0	32.0	32.0
122.5°	95.9	89.9	79.9	71.9	65.9	57.9	47.9	38.0	30.0	32.0	32.0
125°	111.9	103.9	91.9	81.9	71.9	61.9	49.9	38.0	30.0	32.0	34.0
127.5°	129.8	117.8	103.9	89.9	77.9	65.9	53.9	39.9	30.0	34.0	34.0
130°	149.8	135.8	117.8	99.9	85.9	69.9	55.9	39.9	32.0	32.0	32.0
132.5°	171.8	151.8	127.8	107.9	89.9	71.9	55.9	39.9	32.0	32.0	32.0
135°	187.8	163.8	137.8	113.9	93.9	73.9	57.9	39.9	30.0	30.0	30.0
137.5°	201.7	173.8	145.8	117.8	95.9	73.9	55.9	38.0	30.0	28.0	28.0
140°	209.7	177.8	145.8	117.8	93.9	71.9	51.9	36.0	26.0	26.0	26.0
142.5°	209.7	175.8	143.8	113.9	87.9	67.9	49.9	32.0	24.0	24.0	24.0
145°	201.7	167.8	135.8	107.9	81.9	61.9	43.9	30.0	22.0	22.0	22.0
147.5°	187.8	153.8	123.8	97.9	71.9	53.9	38.0	24.0	18.0	18.0	18.0
150°	167.8	135.8	107.9	83.9	61.9	43.9	32.0	20.0	14.0	14.0	14.0
152.5°	139.8	113.9	87.9	69.9	49.9	36.0	24.0	16.0	12.0	12.0	12.0
155°	109.9	89.9	69.9	53.9	38.0	26.0	18.0	12.0	8.0	8.0	8.0
157.5°	83.9	67.9	51.9	39.9	28.0	20.0	14.0	8.0	6.0	6.0	6.0
160°	57.9	45.9	36.0	28.0	18.0	14.0	10.0	6.0	4.0	4.0	4.0
162.5°	38.0	30.0	22.0	16.0	12.0	8.0	6.0	4.0	2.0	2.0	2.0
165°	18.0	14.0	12.0	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
167.5°	6.0	4.0	4.0	2.0	2.0	2.0	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)