

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: P691558

Luminaire Tested: **CRTK2-C016-D-U-T5R-8027-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-D-U-T5R-8027-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4570 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

Input Watts (W): 41.6
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



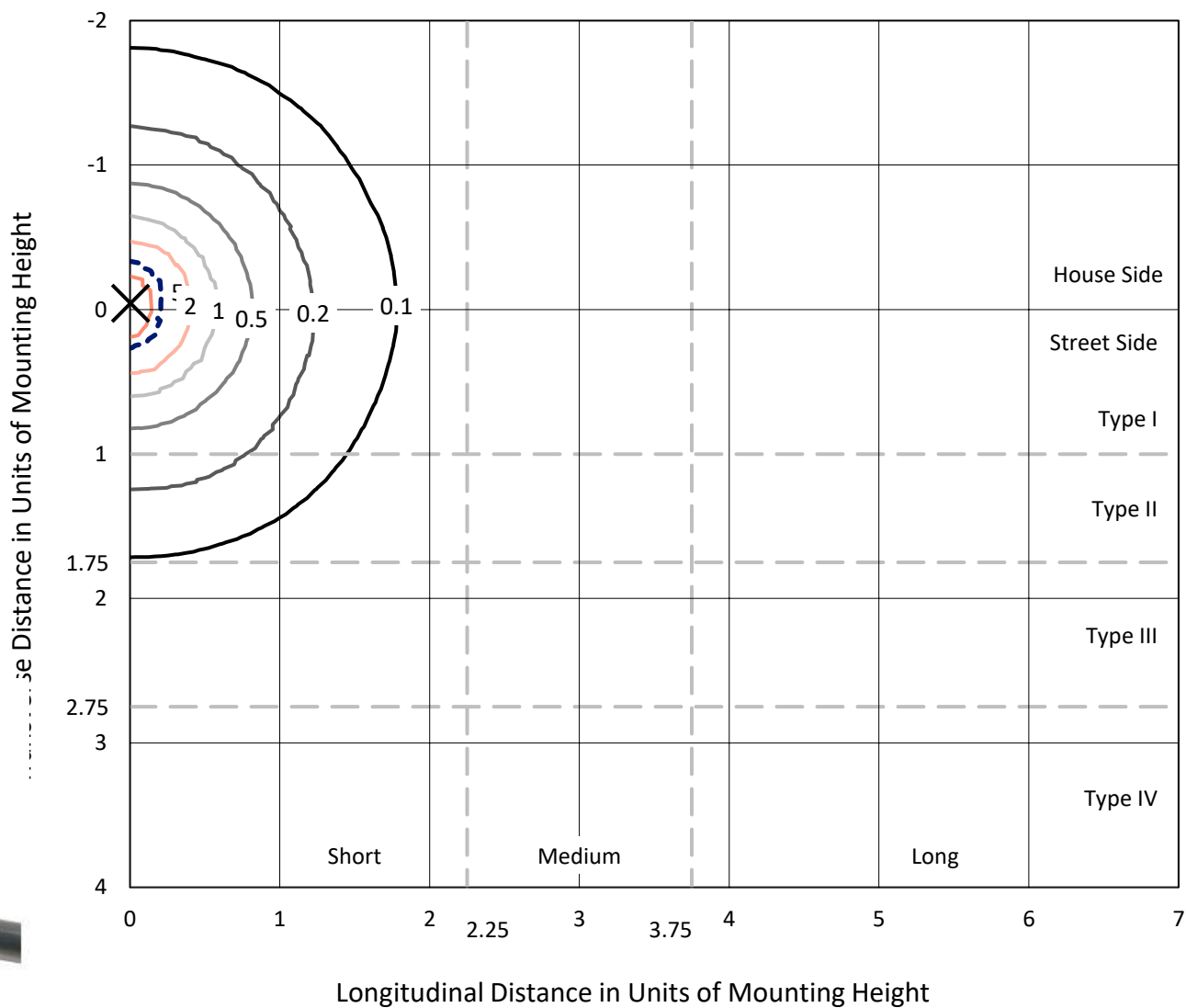
REPORT NUMBER: P691558

CATALOG NUMBER: CRTK2-C016-D-U-T5R-8027-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

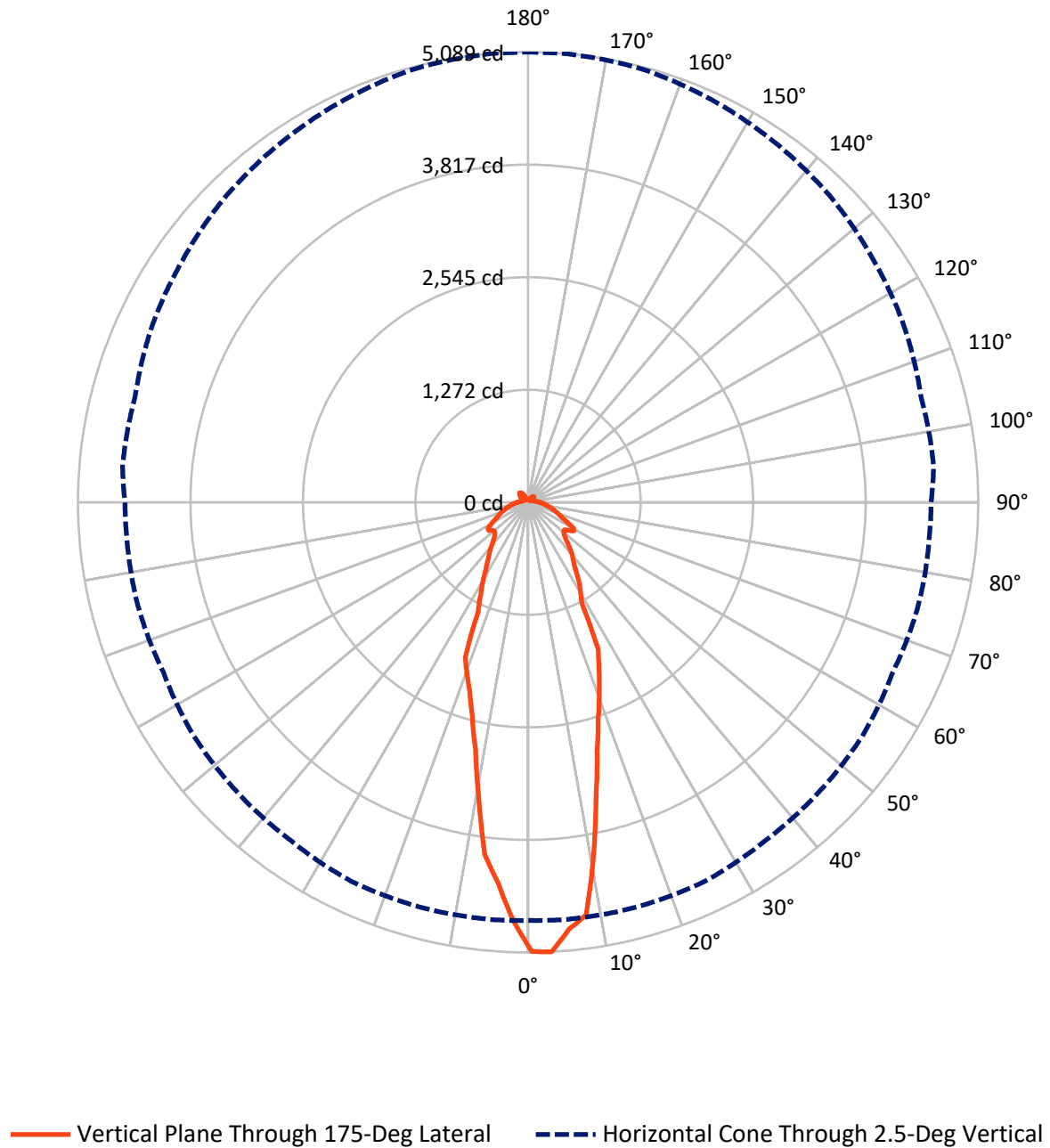


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

REPORT NUMBER: P691558

CATALOG NUMBER: CRTK2-C016-D-U-T5R-8027-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P691558

CATALOG NUMBER: CRTK2-C016-D-U-T5R-8027-RMARROA5

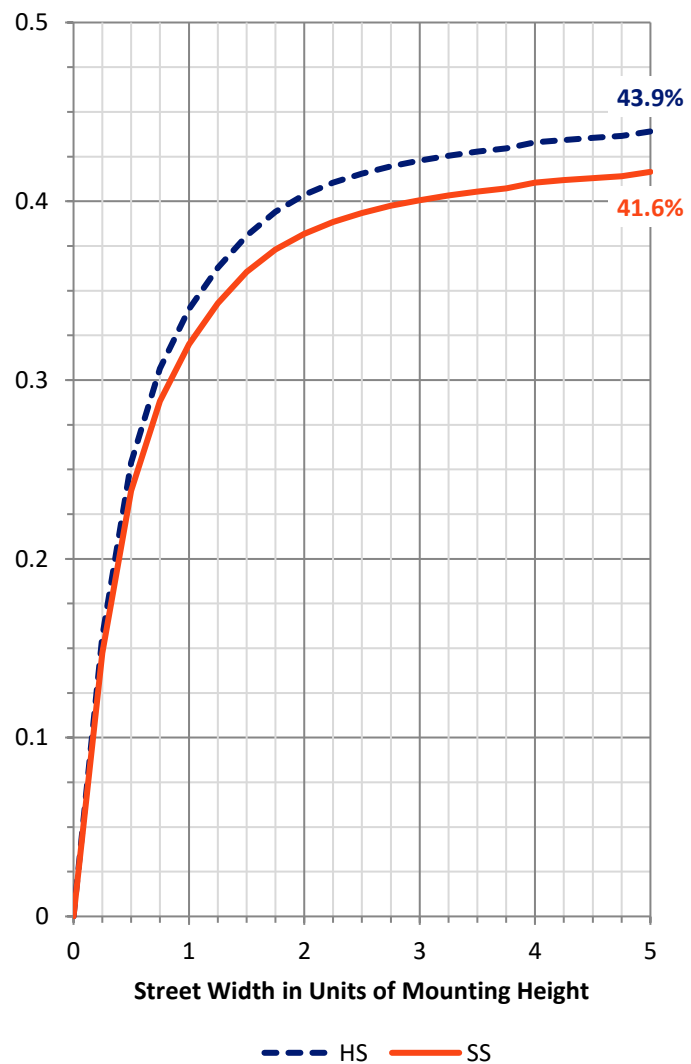
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2068.3	273.2	2341.5
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	1948.0	280.4	2228.5
	% Fixture	42.6	6.1	48.8
Total	Lumens	4016.3	553.7	4570.0
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.1	8.3
10°-20°	663.6	14.5
20°-30°	658.0	14.4
30°-40°	507.3	11.1
40°-50°	434.9	9.5
50°-60°	486.4	10.6
60°-70°	416.7	9.1
70°-80°	286.8	6.3
80°-90°	184.6	4.0
90°-100°	110.6	2.4
100°-110°	65.8	1.4
110°-120°	60.9	1.3
120°-130°	86.9	1.9
130°-140°	112.3	2.5
140°-150°	83.1	1.8
150°-160°	30.4	0.7
160°-170°	3.5	0.1
170°-180°	0.0	0.0
0°-90°	4016.3	87.9
0°-180°	4570.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691558

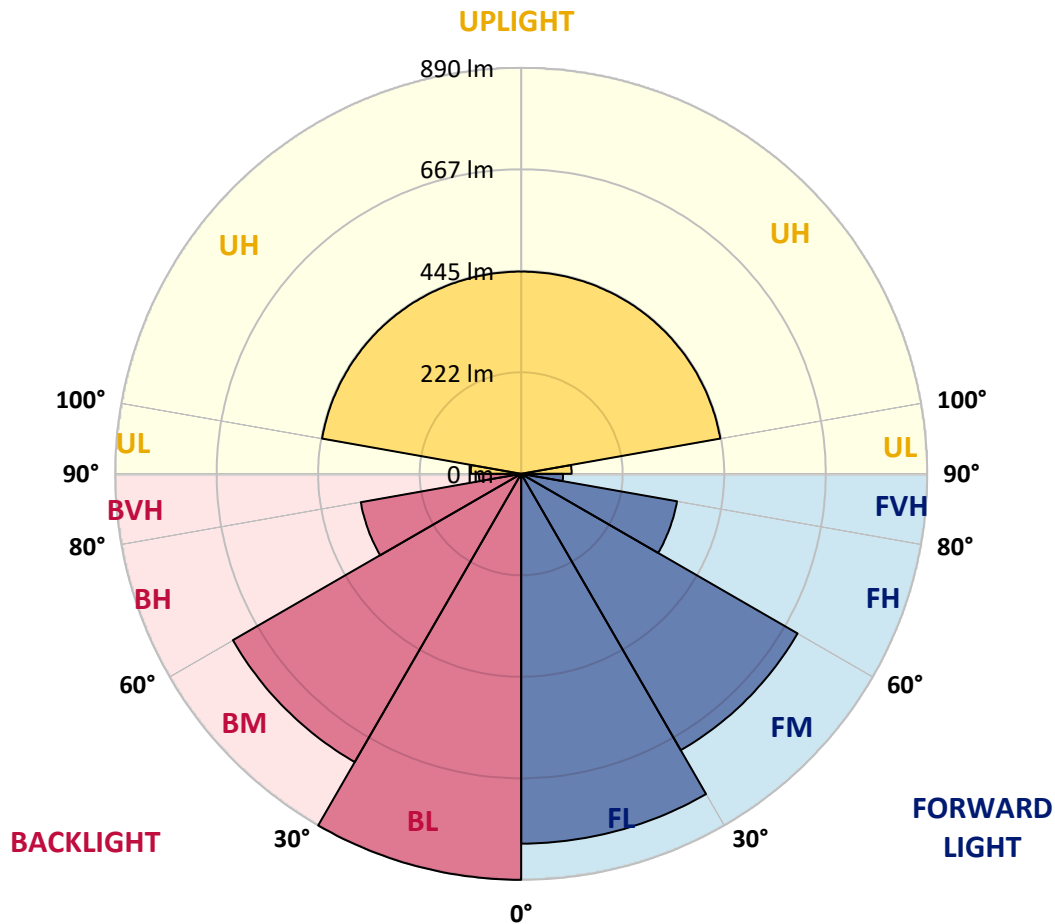
CATALOG NUMBER: CRTK2-C016-D-U-T5R-8027-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	810.2	17.7			
FM	(30°-60°)	699.2	15.3			
FH	(60°-80°)	346.6	7.6			G0/660
FVH	(80°-90°)	92.0	2.0			G1/100
BL	(0°-30°)	889.6	19.5	B2/1000		
BM	(30°-60°)	729.3	16.0	B1/1000		
BH	(60°-80°)	356.8	7.8	B1/500		G0/660
BVH	(80°-90°)	92.6	2.0			G1/100
UL	(90°-100°)	110.6	2.4		U3/500	
UH	(100°-180°)	443.0	9.7		U3/500	

BUG Rating: B2-U3-G1

Type V Short



REPORT NUMBER: P691558

CATALOG NUMBER: CRTK2-C016-D-U-T5R-8027-RMARROA5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6
2.5°	4727.9	4734.8	4736.5	4727.9	4671.2	4642.0	4611.0	4549.1	4562.9	4554.3	4556.0
5°	4287.8	4315.3	4272.3	4260.3	4174.3	4110.7	4048.8	3981.8	3966.3	3938.8	3949.1
7.5°	3995.5	4011.0	3940.5	3868.3	3730.8	3632.8	3529.6	3426.4	3349.1	3319.9	3331.9
10°	3326.7	3378.3	3307.8	3233.9	3103.2	2986.3	2878.0	2776.6	2706.1	2683.7	2687.2
12.5°	2828.2	2857.4	2797.2	2747.3	2601.2	2489.5	2389.7	2295.2	2238.5	2214.4	2214.4
15°	2498.1	2510.1	2463.7	2367.4	2257.4	2155.9	2071.7	2002.9	1956.5	1947.9	1951.3
17.5°	2248.8	2248.8	2202.3	2126.7	2042.5	1953.1	1894.6	1843.0	1822.4	1829.3	1831.0
20°	2061.4	2063.1	2021.8	1947.9	1875.7	1794.9	1746.8	1710.6	1698.6	1710.6	1712.4
22.5°	1884.3	1892.9	1848.2	1793.2	1714.1	1650.5	1610.9	1571.4	1564.5	1569.7	1569.7
25°	1363.4	1363.4	1347.9	1304.9	1322.1	1329.0	1375.4	1475.1	1454.5	1473.4	1471.7
27.5°	1176.0	1182.8	1151.9	1114.1	1074.5	1028.1	1019.5	1010.9	1002.3	1041.9	1055.6
30°	1038.4	1041.9	1016.1	990.3	957.6	931.8	925.0	925.0	916.4	947.3	945.6
32.5°	907.8	902.6	895.7	871.7	851.0	828.7	833.8	830.4	830.4	857.9	859.6
35°	804.6	802.9	797.7	780.5	759.9	742.7	747.9	751.3	749.6	766.8	766.8
37.5°	729.0	730.7	727.2	720.4	699.7	686.0	689.4	686.0	691.1	703.2	703.2
40°	655.0	655.0	656.8	655.0	641.3	636.1	646.4	641.3	653.3	661.9	658.5
42.5°	584.5	586.3	589.7	586.3	577.7	572.5	577.7	579.4	596.6	608.6	606.9
45°	539.8	539.8	541.6	539.8	533.0	527.8	527.8	522.6	534.7	541.6	539.8
47.5°	510.6	510.6	514.1	512.3	508.9	503.7	500.3	493.4	498.6	503.7	498.6
50°	500.3	500.3	507.2	507.2	505.5	500.3	495.1	486.5	488.3	491.7	484.8
52.5°	515.8	515.8	527.8	533.0	533.0	524.4	517.5	505.5	505.5	508.9	498.6
55°	548.4	548.4	567.3	577.7	579.4	579.4	570.8	558.8	560.5	567.3	557.0
57.5°	536.4	538.1	553.6	567.3	575.9	581.1	581.1	574.2	579.4	596.6	591.4
60°	479.7	483.1	493.4	505.5	520.9	526.1	526.1	524.4	533.0	553.6	553.6
62.5°	426.4	428.1	433.2	443.6	452.2	455.6	455.6	448.7	459.0	469.4	465.9
65°	385.1	383.4	393.7	402.3	407.5	412.6	407.5	400.6	405.7	412.6	410.9
67.5°	350.7	350.7	359.3	366.2	369.6	374.8	371.4	367.9	374.8	378.2	374.8
70°	318.1	319.8	326.7	331.8	335.3	340.4	335.3	333.5	340.4	343.8	342.1
72.5°	285.4	287.1	292.3	299.1	302.6	304.3	302.6	300.9	306.0	309.5	309.5
75°	256.2	257.9	261.3	268.2	268.2	271.6	269.9	268.2	273.4	276.8	276.8
77.5°	228.7	232.1	233.8	239.0	240.7	242.4	240.7	240.7	244.1	247.6	249.3
80°	204.6	206.3	208.0	213.2	213.2	214.9	213.2	213.2	216.6	221.8	221.8
82.5°	182.2	184.0	185.7	189.1	187.4	189.1	189.1	189.1	192.6	197.7	197.7
85°	159.9	163.3	163.3	166.8	166.8	166.8	166.8	168.5	170.2	175.4	175.4
87.5°	141.0	142.7	144.4	146.1	146.1	147.9	147.9	149.6	151.3	154.7	156.5
90°	122.1	123.8	125.5	125.5	125.5	127.2	127.2	128.9	130.7	134.1	135.8
92.5°	108.3	110.0	110.0	111.8	111.8	111.8	113.5	115.2	116.9	120.3	120.3
95°	96.3	98.0	98.0	98.0	98.0	99.7	99.7	101.4	103.2	106.6	106.6
97.5°	86.0	86.0	86.0	86.0	86.0	87.7	87.7	89.4	91.1	92.8	92.8
100°	75.6	75.6	75.6	75.6	75.6	75.6	75.6	77.4	77.4	80.8	80.8
102.5°	67.1	67.1	65.3	65.3	65.3	63.6	63.6	65.3	65.3	67.1	67.1
105°	60.2	60.2	60.2	60.2	58.5	58.5	58.5	58.5	58.5	60.2	60.2
107.5°	58.5	58.5	56.7	56.7	56.7	55.0	55.0	55.0	55.0	56.7	56.7
110°	56.7	56.7	56.7	56.7	55.0	55.0	53.3	53.3	53.3	55.0	55.0

REPORT NUMBER: P691558

CATALOG NUMBER: CRTK2-C016-D-U-T5R-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	58.5	58.5	58.5	56.7	56.7	55.0	55.0	55.0	55.0	55.0	56.7
115°	61.9	60.2	60.2	60.2	60.2	58.5	56.7	56.7	58.5	58.5	58.5
117.5°	67.1	65.3	65.3	67.1	65.3	63.6	61.9	61.9	63.6	63.6	65.3
120°	73.9	72.2	73.9	73.9	73.9	72.2	70.5	68.8	70.5	72.2	72.2
122.5°	82.5	80.8	82.5	84.2	84.2	82.5	79.1	79.1	80.8	82.5	84.2
125°	92.8	92.8	94.6	96.3	98.0	94.6	92.8	91.1	94.6	96.3	96.3
127.5°	104.9	103.2	106.6	111.8	113.5	110.0	106.6	104.9	108.3	111.8	111.8
130°	116.9	115.2	120.3	125.5	128.9	125.5	122.1	120.3	123.8	127.2	127.2
132.5°	127.2	125.5	132.4	139.3	142.7	141.0	137.5	134.1	139.3	142.7	141.0
135°	135.8	135.8	144.4	151.3	154.7	153.0	149.6	146.1	153.0	156.5	153.0
137.5°	141.0	141.0	151.3	158.2	161.6	161.6	159.9	156.5	163.3	165.0	159.9
140°	141.0	142.7	151.3	158.2	159.9	161.6	161.6	159.9	166.8	166.8	161.6
142.5°	135.8	137.5	146.1	153.0	154.7	156.5	158.2	156.5	161.6	161.6	158.2
145°	127.2	128.9	137.5	144.4	144.4	146.1	149.6	147.9	151.3	153.0	149.6
147.5°	115.2	116.9	123.8	127.2	128.9	132.4	135.8	135.8	137.5	139.3	137.5
150°	99.7	99.7	104.9	108.3	110.0	113.5	116.9	118.6	118.6	120.3	118.6
152.5°	79.1	79.1	82.5	86.0	87.7	92.8	94.6	96.3	98.0	99.7	98.0
155°	60.2	60.2	61.9	63.6	65.3	70.5	72.2	73.9	75.6	77.4	75.6
157.5°	43.0	43.0	44.7	46.4	48.1	51.6	53.3	55.0	55.0	56.7	56.7
160°	27.5	29.2	29.2	30.9	30.9	34.4	36.1	36.1	37.8	39.5	39.5
162.5°	13.8	15.5	15.5	17.2	18.9	20.6	22.4	22.4	24.1	24.1	24.1
165°	3.4	5.2	5.2	6.9	6.9	8.6	10.3	10.3	12.0	12.0	12.0
167.5°	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
170°	0.0	0.0	0.0	0.0	1.7	0.0	0.0	1.7	1.7	1.7	1.7
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: P691558

CATALOG NUMBER: CRTK2-C016-D-U-T5R-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6	5078.6
2.5°	4602.4	4599.0	4693.5	4769.2	4858.6	4929.1	4997.8	5063.2	5089.0	5087.2	5089.0
5°	3995.5	4055.7	4179.5	4301.5	4446.0	4581.8	4709.0	4793.2	4846.5	4846.5	4851.7
7.5°	3386.9	3483.2	3636.2	3830.5	4047.1	4224.2	4439.1	4590.4	4710.7	4707.3	4729.6
10°	2735.3	2811.0	2964.0	3172.0	3411.0	3615.6	3803.0	3943.9	4060.8	4054.0	4083.2
12.5°	2247.0	2300.3	2432.7	2621.8	2840.2	3037.9	3221.9	3331.9	3414.4	3412.7	3428.2
15°	1959.9	2015.0	2100.9	2231.6	2412.1	2587.5	2771.4	2871.1	2917.6	2912.4	2938.2
17.5°	1843.0	1865.4	1918.7	2006.4	2137.0	2279.7	2425.9	2511.8	2565.1	2558.2	2577.1
20°	1717.5	1738.2	1774.3	1839.6	1932.4	2040.7	2164.5	2259.1	2298.6	2296.9	2308.9
22.5°	1573.1	1583.4	1623.0	1674.5	1741.6	1829.3	1923.8	2009.8	2049.3	2047.6	2059.7
25°	1473.4	1490.6	1514.7	1545.6	1592.0	1660.8	1739.9	1800.0	1836.2	1832.7	1848.2
27.5°	1076.2	1093.4	1105.5	1124.4	1126.1	1182.8	1210.3	1260.2	1292.9	1291.2	1301.5
30°	945.6	949.0	959.3	985.1	1000.6	1045.3	1100.3	1138.1	1165.6	1176.0	1182.8
32.5°	863.1	873.4	885.4	897.4	916.4	943.9	986.8	1021.2	1050.5	1055.6	1067.6
35°	768.5	775.4	784.0	796.0	808.0	830.4	863.1	890.6	912.9	921.5	928.4
37.5°	701.5	703.2	711.8	725.5	735.8	754.7	784.0	804.6	827.0	828.7	835.6
40°	656.8	658.5	667.1	679.1	691.1	703.2	729.0	747.9	763.3	765.1	770.2
42.5°	605.2	610.3	613.8	618.9	627.5	637.8	660.2	670.5	680.8	682.5	689.4
45°	534.7	536.4	539.8	545.0	555.3	565.6	581.1	593.1	600.0	600.0	598.3
47.5°	495.1	496.9	496.9	503.7	512.3	522.6	536.4	546.7	550.2	550.2	550.2
50°	481.4	481.4	477.9	483.1	491.7	498.6	512.3	520.9	522.6	524.4	526.1
52.5°	491.7	488.3	477.9	483.1	491.7	498.6	512.3	515.8	515.8	519.2	520.9
55°	548.4	543.3	522.6	526.1	536.4	545.0	555.3	557.0	560.5	565.6	563.9
57.5°	584.5	588.0	563.9	569.1	588.0	594.9	606.9	605.2	612.1	618.9	620.6
60°	550.2	560.5	541.6	548.4	570.8	574.2	586.3	579.4	589.7	589.7	589.7
62.5°	467.6	471.1	460.8	471.1	491.7	491.7	500.3	495.1	498.6	495.1	496.9
65°	409.2	407.5	395.4	409.2	416.1	419.5	426.4	428.1	428.1	424.7	424.7
67.5°	373.1	369.6	359.3	362.8	369.6	371.4	381.7	383.4	381.7	381.7	383.4
70°	340.4	335.3	324.9	326.7	331.8	333.5	342.1	345.6	343.8	342.1	343.8
72.5°	307.7	302.6	292.3	292.3	297.4	300.9	307.7	311.2	307.7	307.7	309.5
75°	276.8	271.6	261.3	261.3	264.8	266.5	275.1	276.8	275.1	273.4	275.1
77.5°	249.3	245.9	235.5	235.5	237.3	239.0	244.1	245.9	244.1	242.4	244.1
80°	223.5	218.3	211.5	209.7	211.5	211.5	216.6	218.3	214.9	214.9	216.6
82.5°	199.4	194.3	187.4	187.4	185.7	187.4	190.8	192.6	190.8	189.1	190.8
85°	177.1	173.6	166.8	165.0	165.0	165.0	168.5	168.5	166.8	166.8	166.8
87.5°	156.5	153.0	146.1	146.1	144.4	146.1	147.9	147.9	146.1	146.1	146.1
90°	135.8	132.4	127.2	127.2	125.5	127.2	128.9	128.9	127.2	127.2	127.2
92.5°	120.3	118.6	113.5	113.5	111.8	113.5	113.5	113.5	111.8	111.8	111.8
95°	106.6	104.9	101.4	99.7	99.7	99.7	99.7	99.7	98.0	98.0	98.0
97.5°	92.8	91.1	87.7	87.7	86.0	87.7	87.7	87.7	86.0	86.0	86.0
100°	80.8	79.1	77.4	77.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6
102.5°	67.1	67.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
105°	60.2	60.2	60.2	60.2	61.9	61.9	61.9	60.2	60.2	60.2	60.2
107.5°	56.7	56.7	56.7	58.5	58.5	58.5	60.2	56.7	55.0	55.0	55.0
110°	55.0	55.0	56.7	56.7	58.5	58.5	60.2	53.3	51.6	51.6	51.6

REPORT NUMBER: P691558

CATALOG NUMBER: CRTK2-C016-D-U-T5R-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	56.7	56.7	56.7	58.5	60.2	60.2	61.9	53.3	51.6	51.6	51.6
115°	60.2	60.2	60.2	61.9	63.6	65.3	65.3	56.7	53.3	53.3	55.0
117.5°	65.3	65.3	65.3	67.1	70.5	70.5	70.5	60.2	58.5	58.5	58.5
120°	72.2	73.9	73.9	75.6	79.1	80.8	77.4	68.8	58.5	63.6	63.6
122.5°	82.5	84.2	86.0	87.7	92.8	92.8	87.7	79.1	63.6	70.5	72.2
125°	96.3	98.0	99.7	103.2	108.3	108.3	101.4	89.4	72.2	79.1	80.8
127.5°	110.0	113.5	115.2	120.3	127.2	127.2	118.6	103.2	80.8	86.0	87.7
130°	125.5	128.9	132.4	139.3	147.9	144.4	137.5	116.9	87.7	91.1	91.1
132.5°	139.3	144.4	146.1	156.5	165.0	161.6	153.0	125.5	91.1	91.1	89.4
135°	149.6	153.0	154.7	165.0	173.6	168.5	158.2	128.9	89.4	86.0	86.0
137.5°	156.5	159.9	161.6	168.5	175.4	166.8	153.0	122.1	86.0	84.2	82.5
140°	159.9	159.9	159.9	165.0	168.5	158.2	141.0	110.0	77.4	80.8	80.8
142.5°	156.5	154.7	153.0	156.5	158.2	146.1	130.7	98.0	70.5	73.9	73.9
145°	147.9	144.4	142.7	144.4	144.4	130.7	113.5	84.2	61.9	63.6	63.6
147.5°	135.8	130.7	127.2	127.2	125.5	111.8	96.3	70.5	53.3	51.6	51.6
150°	116.9	111.8	108.3	108.3	103.2	91.1	77.4	55.0	43.0	43.0	43.0
152.5°	96.3	91.1	87.7	87.7	82.5	70.5	58.5	41.3	32.7	32.7	32.7
155°	75.6	70.5	67.1	65.3	61.9	53.3	43.0	30.9	24.1	24.1	24.1
157.5°	56.7	53.3	49.9	48.1	44.7	39.5	30.9	22.4	15.5	17.2	17.2
160°	39.5	36.1	34.4	32.7	30.9	25.8	20.6	13.8	8.6	8.6	8.6
162.5°	24.1	22.4	22.4	20.6	18.9	17.2	12.0	6.9	3.4	3.4	3.4
165°	12.0	12.0	10.3	10.3	8.6	6.9	5.2	1.7	0.0	0.0	0.0
167.5°	3.4	3.4	3.4	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
170°	1.7	1.7	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)