

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: P691405

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691405
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-C016-5TLD-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: 4057 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - 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



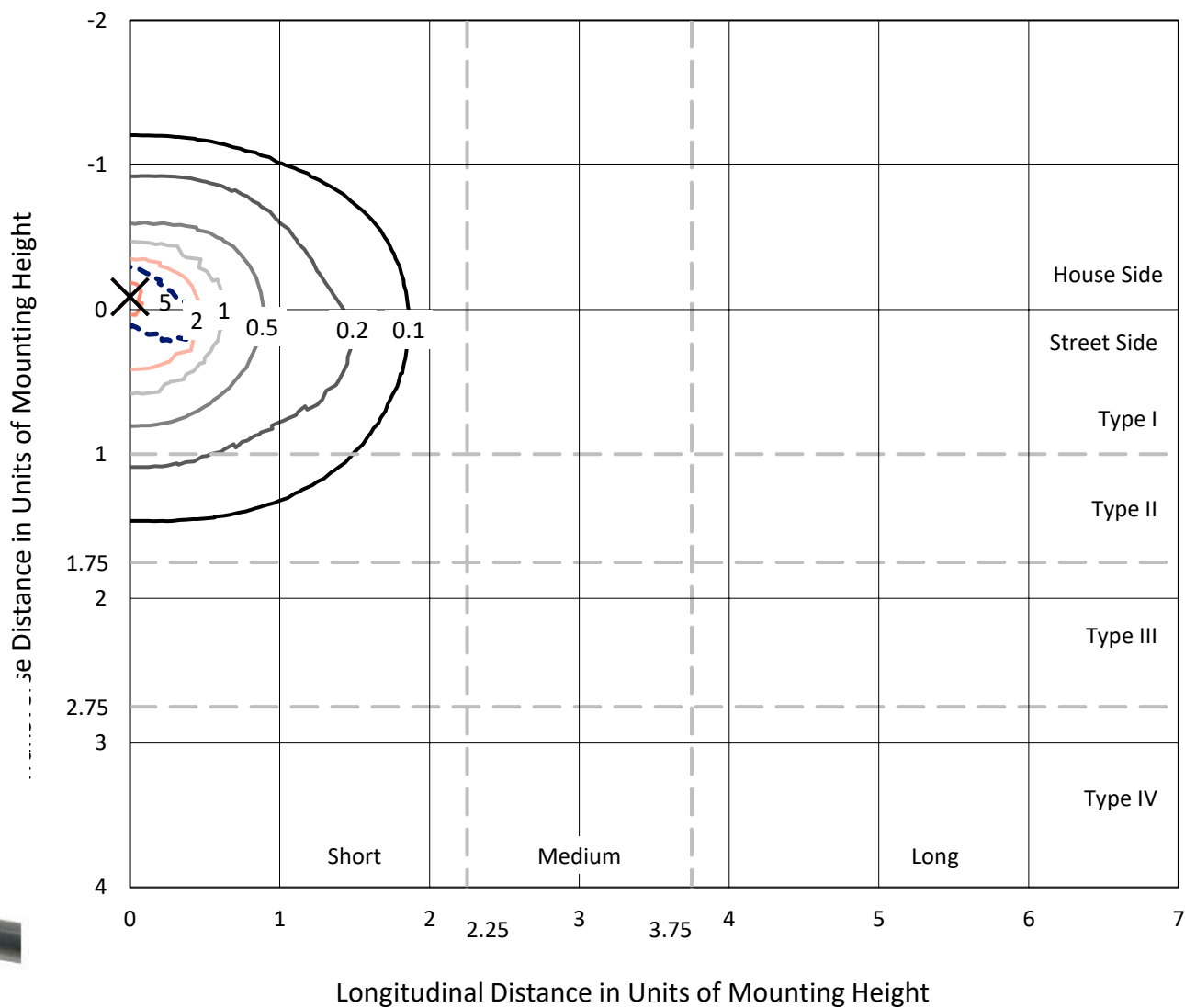
REPORT NUMBER: P691405

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

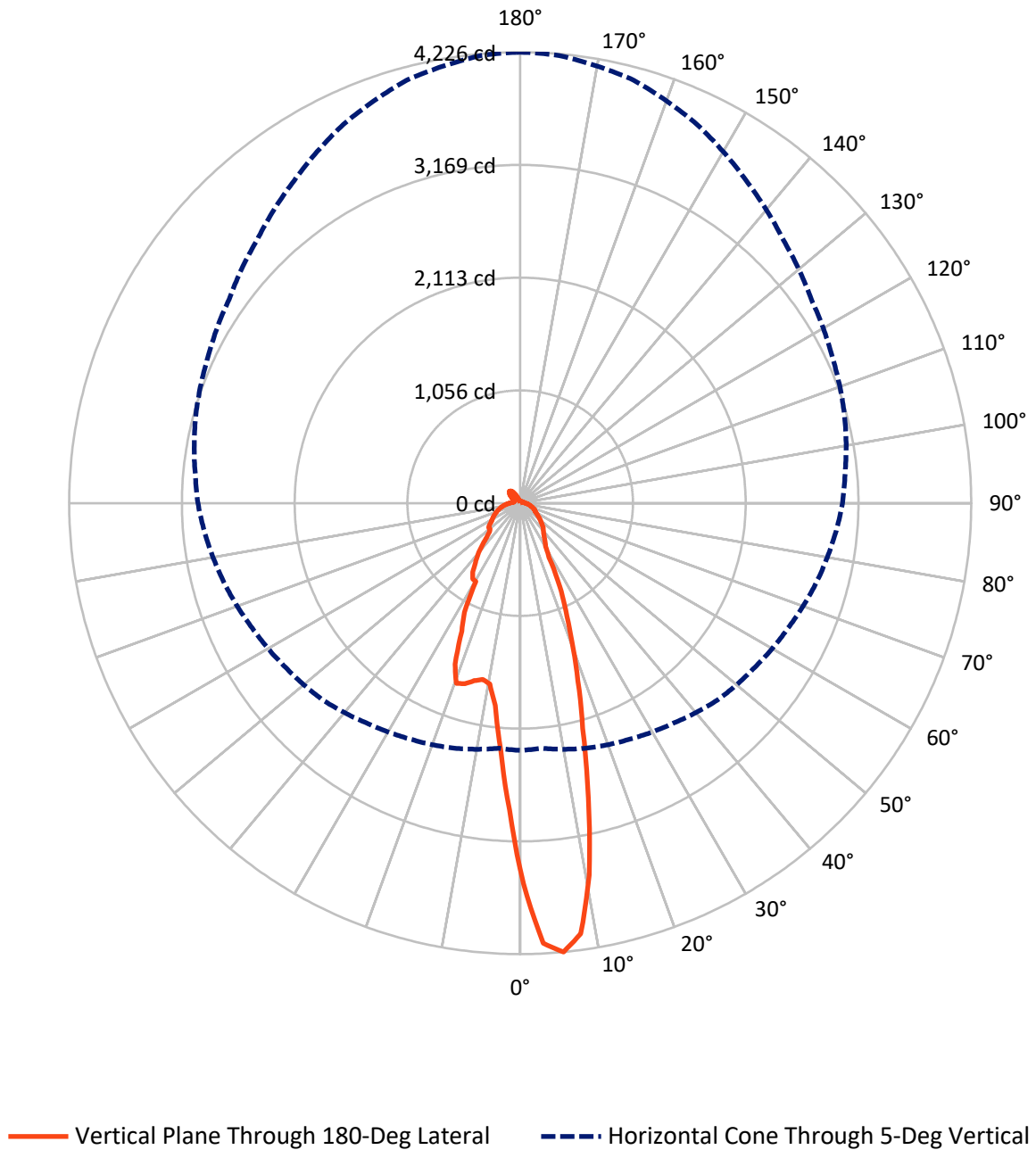


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type I - Short - N/A

REPORT NUMBER: P691405

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



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CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

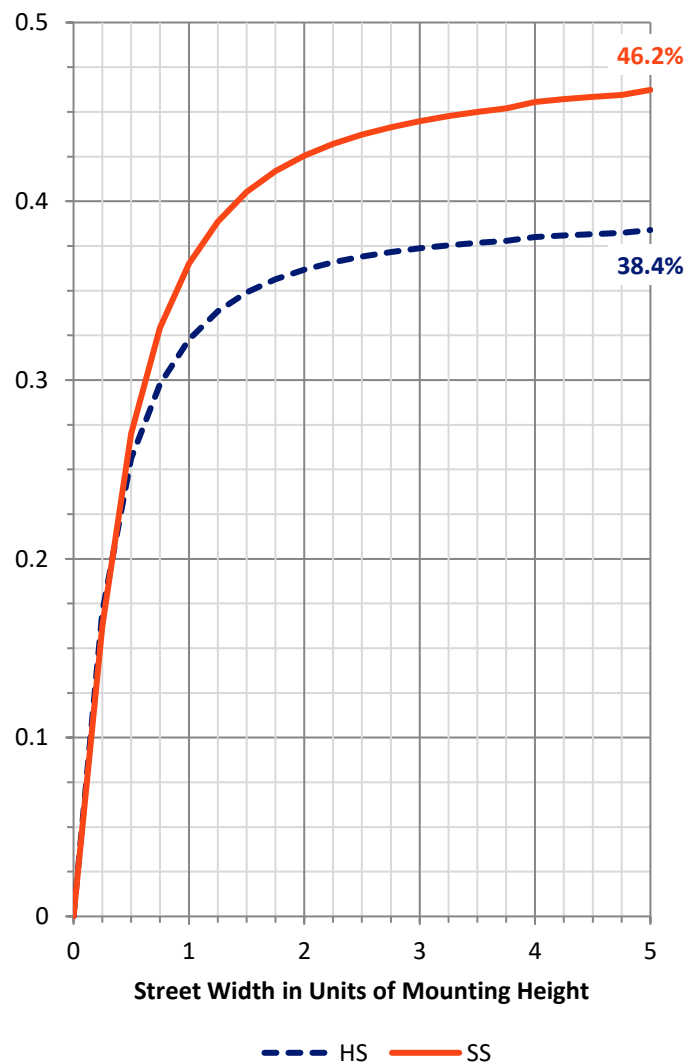
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1598.8	187.7	1786.5
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	1921.5	348.9	2270.5
	% Fixture	47.4	8.6	56.0
Total	Lumens	3520.3	536.6	4057.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.1	6.8
10°-20°	585.8	14.4
20°-30°	637.5	15.7
30°-40°	466.7	11.5
40°-50°	392.4	9.7
50°-60°	398.4	9.8
60°-70°	338.7	8.3
70°-80°	252.7	6.2
80°-90°	172.0	4.2
90°-100°	103.3	2.5
100°-110°	59.2	1.5
110°-120°	54.5	1.3
120°-130°	79.2	2.0
130°-140°	108.9	2.7
140°-150°	90.2	2.2
150°-160°	36.7	0.9
160°-170°	4.6	0.1
170°-180°	0.0	0.0
0°-90°	3520.3	86.8
0°-180°	4057.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691405

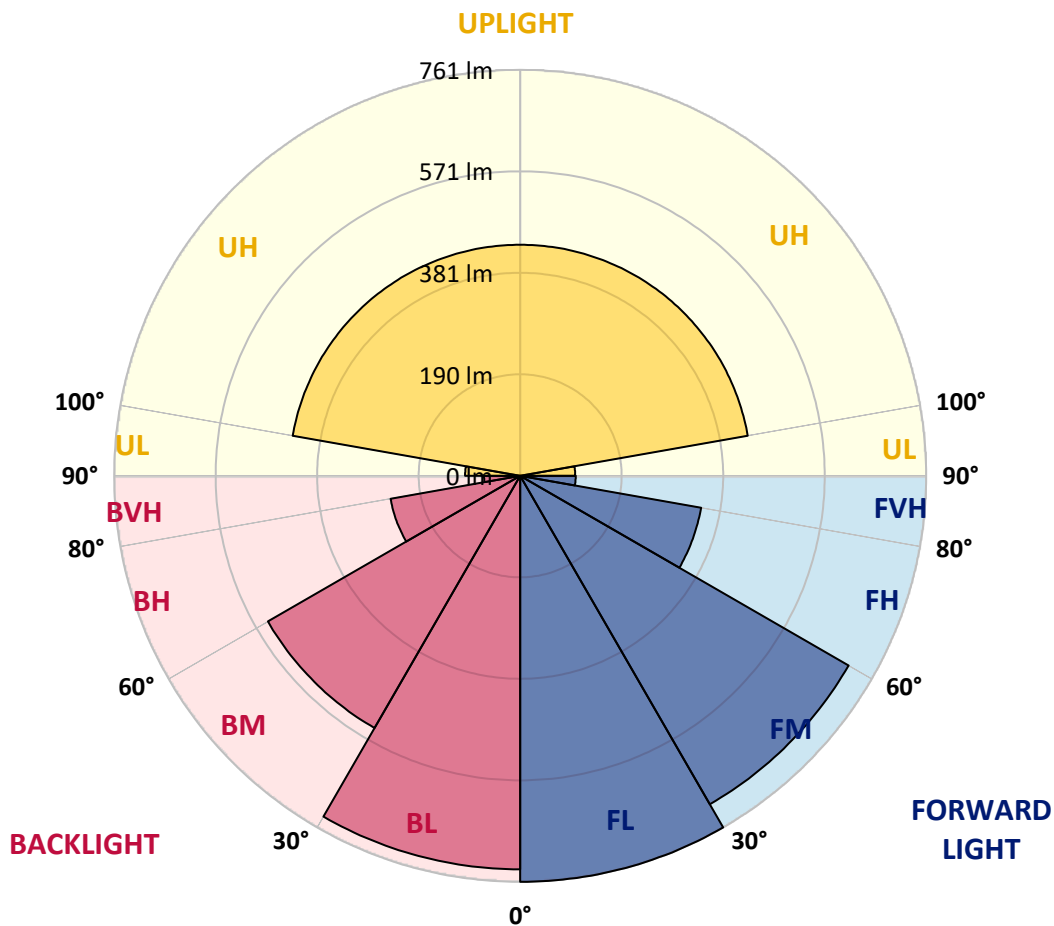
CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	761.4	18.8			
FM	(30°-60°)	711.3	17.5			
FH	(60°-80°)	344.6	8.5			G0/660
FVH	(80°-90°)	104.2	2.6			G2/225
BL	(0°-30°)	738.0	18.2	B2/1000		
BM	(30°-60°)	546.2	13.5	B1/1000		
BH	(60°-80°)	246.8	6.1	B1/500		G1/500
BVH	(80°-90°)	67.8	1.7			G1/100
UL	(90°-100°)	103.3	2.5		U3/500	
UH	(100°-180°)	433.3	10.7		U3/500	

BUG Rating: B2-U3-G2

Type I Short



REPORT NUMBER: P691405

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4
2.5°	2876.2	2870.8	2910.6	2919.6	2923.2	2964.8	3020.8	3058.7	3127.4	3194.2	3221.3
5°	2316.2	2305.3	2377.6	2439.0	2513.1	2610.7	2682.9	2769.6	2872.6	2972.0	3019.0
7.5°	1909.7	1924.1	2027.1	2153.6	2272.8	2388.4	2477.0	2551.0	2610.7	2673.9	2686.5
10°	1718.2	1730.8	1832.0	1953.0	2063.2	2180.7	2256.6	2319.8	2357.7	2404.7	2421.0
12.5°	1687.4	1696.5	1765.1	1850.0	1933.2	2039.7	2135.5	2206.0	2249.3	2287.3	2290.9
15°	1718.2	1721.8	1763.3	1819.3	1891.6	1980.1	2090.3	2169.8	2218.6	2234.9	2231.3
17.5°	1768.7	1768.7	1788.6	1835.6	1904.2	1989.2	2093.9	2175.2	2225.8	2233.1	2218.6
20°	1790.4	1794.0	1806.7	1859.1	1920.5	1998.2	2103.0	2171.6	2211.4	2191.5	2166.2
22.5°	1627.8	1620.6	1654.9	1765.1	1902.4	2041.6	2140.9	2218.6	2240.3	2173.4	2119.2
25°	1317.1	1320.7	1342.4	1396.6	1503.2	1631.4	1851.9	2088.5	2252.9	2227.6	2146.3
27.5°	1149.1	1138.2	1143.6	1152.7	1138.2	1111.1	1136.4	1131.0	1127.4	1192.4	1199.6
30°	843.7	845.5	854.6	870.8	905.1	955.7	1009.9	1040.7	1067.8	1118.3	1111.1
32.5°	838.3	840.1	845.5	860.0	878.0	912.4	946.7	959.4	988.3	1029.8	1017.2
35°	784.1	778.7	793.1	805.8	811.2	825.7	852.8	870.8	888.9	917.8	910.6
37.5°	695.6	697.4	726.3	746.2	751.6	771.5	796.7	811.2	831.1	856.4	843.7
40°	619.7	621.5	655.8	677.5	690.2	717.3	755.2	773.3	805.8	825.7	811.2
42.5°	533.0	540.2	563.7	589.0	596.2	612.5	637.8	661.2	702.8	729.9	720.9
45°	444.4	448.1	464.3	489.6	500.5	518.5	542.0	563.7	596.2	617.9	616.1
47.5°	392.1	395.7	410.1	431.8	453.5	477.0	502.3	523.9	554.7	572.7	565.5
50°	370.4	374.0	392.1	417.3	444.4	475.2	505.9	529.4	558.3	569.1	560.1
52.5°	374.0	374.0	399.3	431.8	469.7	511.3	549.2	578.1	601.6	608.9	589.0
55°	354.1	359.5	386.6	431.8	489.6	554.7	619.7	681.1	715.4	708.2	670.3
57.5°	323.4	328.8	348.7	397.5	458.9	536.6	628.7	704.6	746.2	751.6	713.6
60°	305.3	308.9	327.0	365.0	419.2	482.4	565.5	626.9	673.9	688.3	661.2
62.5°	289.1	292.7	307.1	336.0	375.8	424.6	471.5	511.3	549.2	563.7	552.8
65°	271.0	272.8	287.3	312.6	345.1	386.6	426.4	455.3	486.0	495.0	482.4
67.5°	252.9	254.7	267.4	290.9	321.6	359.5	390.2	422.8	453.5	460.7	451.7
70°	236.7	238.5	249.3	271.0	298.1	334.2	363.1	384.8	415.5	422.8	411.9
72.5°	220.4	222.2	233.1	252.9	278.2	310.7	336.0	357.7	383.0	384.8	375.8
75°	204.2	206.0	215.0	233.1	254.7	287.3	310.7	328.8	350.5	350.5	339.7
77.5°	186.1	189.7	196.9	213.2	233.1	263.8	285.5	303.5	321.6	319.8	308.9
80°	169.8	171.6	178.9	193.3	211.4	240.3	262.0	276.4	292.7	290.9	281.8
82.5°	151.8	153.6	159.0	173.4	189.7	216.8	238.5	252.9	267.4	263.8	254.7
85°	133.7	135.5	142.7	153.6	169.8	195.1	215.0	229.4	240.3	236.7	229.4
87.5°	119.2	119.2	124.7	135.5	150.0	173.4	191.5	206.0	215.0	213.2	206.0
90°	103.0	104.8	108.4	117.4	130.1	150.0	168.0	180.7	189.7	186.1	178.9
92.5°	90.3	90.3	93.9	103.0	113.8	131.9	148.1	159.0	166.2	164.4	159.0
95°	77.7	79.5	81.3	88.5	97.6	112.0	126.5	137.3	144.5	142.7	139.1
97.5°	68.7	70.5	72.3	75.9	84.9	93.9	106.6	115.6	122.9	121.0	117.4
100°	63.2	63.2	63.2	66.8	72.3	79.5	88.5	95.8	99.4	101.2	97.6
102.5°	57.8	57.8	59.6	59.6	63.2	66.8	72.3	77.7	79.5	79.5	79.5
105°	56.0	56.0	57.8	57.8	59.6	61.4	65.0	66.8	68.7	68.7	66.8
107.5°	56.0	56.0	56.0	56.0	57.8	59.6	61.4	63.2	63.2	63.2	61.4
110°	57.8	57.8	57.8	57.8	57.8	59.6	59.6	61.4	61.4	59.6	59.6

REPORT NUMBER: P691405

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	59.6	59.6	59.6	59.6	59.6	61.4	61.4	61.4	61.4	59.6	59.6
115°	63.2	63.2	63.2	65.0	65.0	65.0	65.0	65.0	65.0	63.2	61.4
117.5°	70.5	70.5	70.5	70.5	72.3	72.3	72.3	72.3	72.3	68.7	68.7
120°	79.5	77.7	79.5	81.3	83.1	83.1	83.1	83.1	83.1	79.5	77.7
122.5°	88.5	88.5	90.3	93.9	97.6	99.4	97.6	97.6	97.6	92.1	90.3
125°	99.4	99.4	104.8	112.0	117.4	119.2	117.4	117.4	117.4	112.0	108.4
127.5°	112.0	112.0	119.2	130.1	139.1	144.5	142.7	142.7	142.7	133.7	128.3
130°	124.7	124.7	135.5	150.0	164.4	168.0	169.8	171.6	171.6	160.8	153.6
132.5°	133.7	135.5	148.1	168.0	186.1	191.5	196.9	198.7	198.7	186.1	175.2
135°	142.7	144.5	160.8	184.3	204.2	216.8	222.2	224.0	225.8	211.4	198.7
137.5°	148.1	150.0	168.0	195.1	215.0	231.3	243.9	247.5	247.5	231.3	215.0
140°	148.1	150.0	169.8	195.1	216.8	236.7	251.1	258.4	258.4	242.1	227.6
142.5°	144.5	148.1	166.2	191.5	213.2	233.1	249.3	256.5	256.5	242.1	227.6
145°	137.3	139.1	157.2	178.9	200.5	224.0	242.1	249.3	249.3	234.9	220.4
147.5°	124.7	126.5	140.9	160.8	182.5	206.0	224.0	233.1	231.3	218.6	206.0
150°	108.4	108.4	121.0	137.3	159.0	180.7	198.7	207.8	207.8	195.1	184.3
152.5°	88.5	88.5	97.6	110.2	128.3	150.0	164.4	173.4	173.4	164.4	155.4
155°	68.7	68.7	75.9	84.9	99.4	115.6	126.5	135.5	135.5	128.3	121.0
157.5°	48.8	48.8	56.0	63.2	74.1	86.7	95.8	101.2	103.0	95.8	92.1
160°	32.5	32.5	36.1	41.6	50.6	59.6	65.0	70.5	72.3	66.8	65.0
162.5°	18.1	18.1	19.9	25.3	30.7	36.1	41.6	45.2	45.2	43.4	41.6
165°	5.4	5.4	7.2	9.0	12.6	16.3	18.1	19.9	21.7	21.7	19.9
167.5°	0.0	0.0	1.8	1.8	1.8	1.8	3.6	3.6	5.4	5.4	5.4
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: P691405

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4	3566.4
2.5°	3277.3	3378.5	3488.7	3595.3	3725.4	3860.9	3985.5	4070.5	4115.6	4130.1	4130.1
5°	3055.1	3147.2	3228.5	3329.7	3486.9	3691.1	3916.9	4104.8	4211.4	4224.0	4225.8
7.5°	2708.2	2784.1	2869.0	2959.4	3098.5	3280.9	3579.0	3882.6	4056.0	4088.5	4075.9
10°	2424.6	2471.5	2522.1	2556.5	2654.0	2789.5	2991.9	3290.0	3503.2	3528.5	3546.5
12.5°	2292.7	2299.9	2285.5	2292.7	2325.2	2388.4	2487.8	2659.4	2798.6	2822.0	2834.7
15°	2225.8	2189.7	2131.9	2077.7	2048.8	2054.2	2075.9	2146.3	2169.8	2209.6	2191.5
17.5°	2195.1	2113.8	2023.5	1918.7	1853.7	1786.8	1750.7	1738.0	1729.0	1730.8	1747.1
20°	2117.4	2025.3	1880.8	1743.5	1638.7	1546.5	1468.8	1412.8	1382.1	1367.7	1378.5
22.5°	2036.1	1893.4	1723.6	1575.4	1425.5	1308.0	1219.5	1138.2	1093.0	1105.7	1091.2
25°	2037.9	1824.8	1622.4	1427.3	1286.4	1131.0	990.1	905.1	831.1	845.5	865.4
27.5°	1284.6	1228.5	1084.0	970.2	829.3	751.6	681.1	621.5	579.9	581.8	576.3
30°	1089.4	1031.6	959.4	869.0	762.4	672.1	590.8	522.1	482.4	471.5	469.7
32.5°	1006.3	957.5	890.7	802.2	704.6	614.3	533.0	469.7	430.0	428.2	428.2
35°	896.1	850.9	794.9	719.1	636.0	552.8	477.0	422.8	390.2	390.2	388.4
37.5°	827.5	787.7	733.5	663.1	589.0	505.9	439.0	390.2	355.9	354.1	355.9
40°	791.3	749.8	697.4	630.5	556.5	477.0	413.7	363.1	337.9	336.0	334.2
42.5°	719.1	686.5	641.4	579.9	514.9	444.4	384.8	339.7	318.0	316.2	318.0
45°	610.7	587.2	556.5	511.3	457.1	397.5	345.1	310.7	289.1	289.1	289.1
47.5°	560.1	538.4	504.1	458.9	411.9	355.9	312.6	283.6	263.8	263.8	263.8
50°	547.4	520.3	475.2	424.6	374.0	325.2	285.5	256.5	242.1	240.3	242.1
52.5°	565.5	523.9	462.5	402.9	346.9	299.9	262.0	234.9	220.4	220.4	220.4
55°	630.5	554.7	473.4	397.5	330.6	278.2	240.3	213.2	198.7	196.9	198.7
57.5°	673.9	578.1	477.0	392.1	319.8	263.8	222.2	193.3	178.9	177.1	178.9
60°	636.0	558.3	460.7	377.6	310.7	252.9	209.6	180.7	166.2	164.4	164.4
62.5°	527.6	482.4	411.9	341.5	287.3	236.7	196.9	169.8	155.4	153.6	155.4
65°	467.9	428.2	366.8	310.7	263.8	220.4	186.1	162.6	148.1	148.1	148.1
67.5°	435.4	399.3	341.5	287.3	243.9	204.2	171.6	150.0	137.3	137.3	137.3
70°	397.5	361.3	308.9	260.2	220.4	186.1	157.2	135.5	124.7	122.9	124.7
72.5°	365.0	328.8	280.0	234.9	198.7	168.0	142.7	122.9	113.8	112.0	113.8
75°	328.8	294.5	247.5	207.8	177.1	150.0	128.3	110.2	103.0	101.2	101.2
77.5°	298.1	265.6	222.2	186.1	159.0	133.7	113.8	101.2	93.9	92.1	92.1
80°	271.0	240.3	198.7	166.2	140.9	119.2	103.0	90.3	83.1	83.1	83.1
82.5°	242.1	215.0	177.1	146.3	124.7	106.6	90.3	79.5	74.1	74.1	74.1
85°	218.6	191.5	155.4	130.1	108.4	92.1	79.5	70.5	65.0	65.0	65.0
87.5°	193.3	169.8	137.3	113.8	95.8	81.3	68.7	59.6	57.8	56.0	56.0
90°	168.0	146.3	117.4	97.6	81.3	68.7	57.8	50.6	48.8	47.0	47.0
92.5°	150.0	130.1	106.6	88.5	74.1	61.4	54.2	47.0	45.2	45.2	43.4
95°	130.1	113.8	93.9	79.5	66.8	57.8	50.6	45.2	43.4	43.4	41.6
97.5°	112.0	97.6	83.1	72.3	61.4	54.2	47.0	43.4	39.7	39.7	39.7
100°	93.9	83.1	72.3	61.4	56.0	48.8	43.4	39.7	37.9	36.1	36.1
102.5°	75.9	68.7	59.6	54.2	47.0	41.6	37.9	34.3	32.5	32.5	32.5
105°	65.0	59.6	54.2	48.8	43.4	37.9	34.3	30.7	28.9	28.9	28.9
107.5°	59.6	56.0	50.6	45.2	41.6	36.1	32.5	27.1	25.3	27.1	27.1
110°	57.8	54.2	48.8	45.2	39.7	36.1	32.5	25.3	23.5	25.3	25.3

REPORT NUMBER: P691405

CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	57.8	54.2	50.6	45.2	41.6	36.1	32.5	25.3	23.5	23.5	23.5
115°	59.6	57.8	52.4	48.8	43.4	37.9	32.5	25.3	23.5	23.5	23.5
117.5°	66.8	63.2	57.8	52.4	47.0	39.7	34.3	25.3	23.5	23.5	23.5
120°	74.1	70.5	65.0	57.8	50.6	43.4	36.1	25.3	21.7	23.5	23.5
122.5°	86.7	81.3	74.1	65.0	56.0	47.0	36.1	27.1	19.9	23.5	23.5
125°	103.0	95.8	84.9	72.3	61.4	50.6	37.9	27.1	21.7	23.5	23.5
127.5°	121.0	112.0	97.6	81.3	66.8	52.4	39.7	27.1	21.7	21.7	23.5
130°	144.5	130.1	110.2	90.3	72.3	56.0	39.7	27.1	21.7	21.7	21.7
132.5°	164.4	146.3	121.0	97.6	75.9	57.8	39.7	27.1	19.9	19.9	19.9
135°	184.3	160.8	130.1	103.0	79.5	57.8	39.7	25.3	19.9	19.9	19.9
137.5°	200.5	169.8	137.3	104.8	79.5	56.0	37.9	23.5	18.1	18.1	18.1
140°	209.6	175.2	139.1	104.8	75.9	54.2	34.3	21.7	16.3	16.3	16.3
142.5°	209.6	173.4	137.3	101.2	72.3	50.6	30.7	18.1	14.5	14.5	14.5
145°	202.3	166.2	130.1	95.8	66.8	45.2	27.1	16.3	10.8	10.8	12.6
147.5°	189.7	153.6	119.2	86.7	59.6	37.9	23.5	12.6	9.0	9.0	9.0
150°	168.0	135.5	103.0	75.9	50.6	32.5	19.9	10.8	7.2	7.2	7.2
152.5°	140.9	112.0	86.7	63.2	41.6	25.3	14.5	9.0	5.4	5.4	5.4
155°	112.0	88.5	68.7	48.8	30.7	19.9	10.8	7.2	5.4	5.4	5.4
157.5°	83.1	66.8	50.6	36.1	23.5	14.5	9.0	5.4	3.6	3.6	3.6
160°	57.8	47.0	34.3	23.5	14.5	9.0	5.4	3.6	1.8	1.8	1.8
162.5°	37.9	28.9	21.7	14.5	9.0	5.4	3.6	1.8	1.8	1.8	1.8
165°	18.1	14.5	10.8	7.2	3.6	3.6	1.8	1.8	0.0	0.0	0.0
167.5°	5.4	3.6	1.8	1.8	1.8	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)