

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: P691473

Luminaire Tested: **CRTK2-C016-D-U-T2-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691473
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-D-U-T2-7030-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 4271 lumens
Efficiency: N/A
Efficacy: 102.7 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): 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



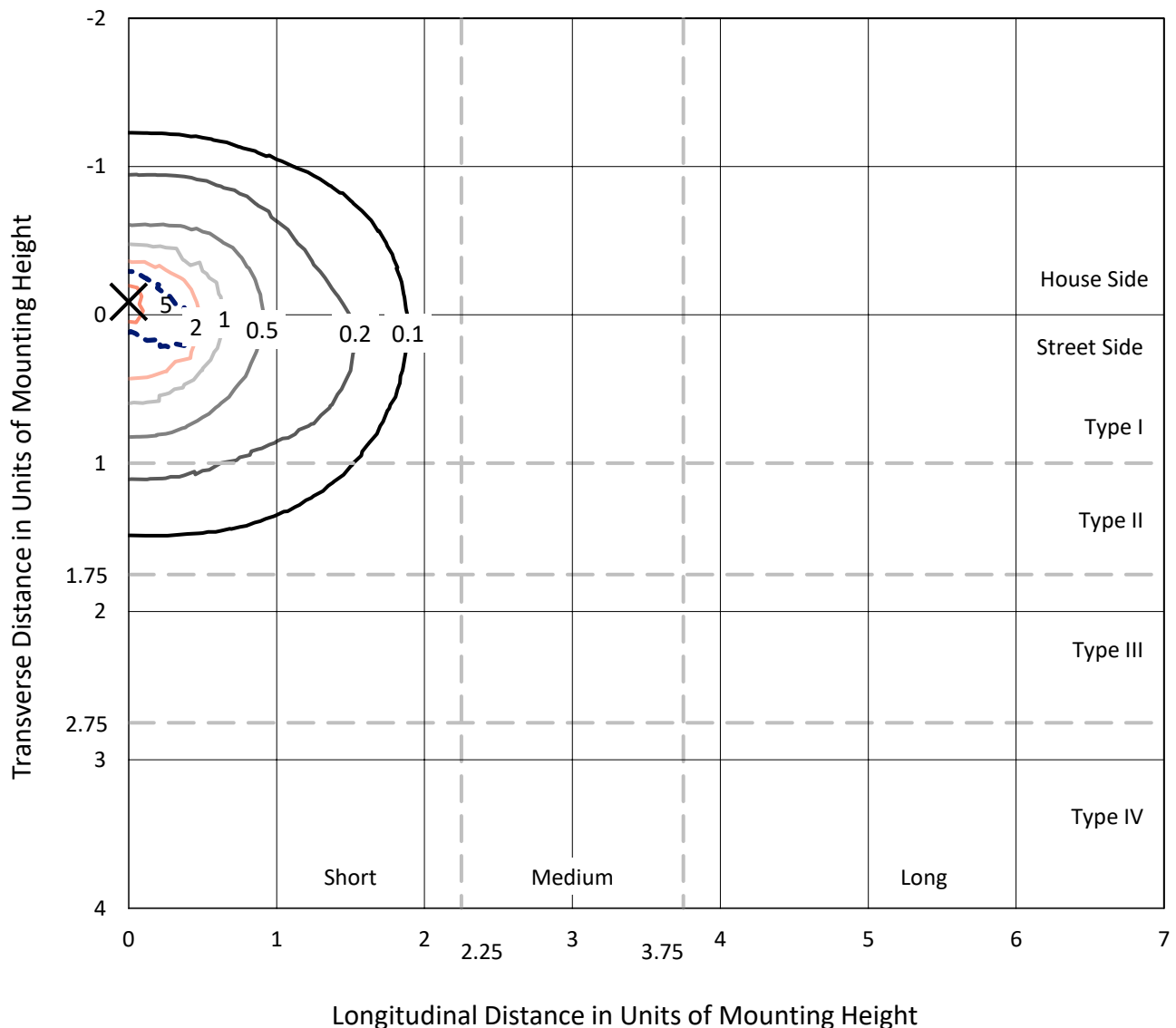
REPORT NUMBER: P691473

CATALOG NUMBER: CRTK2-C016-D-U-T2-7030-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



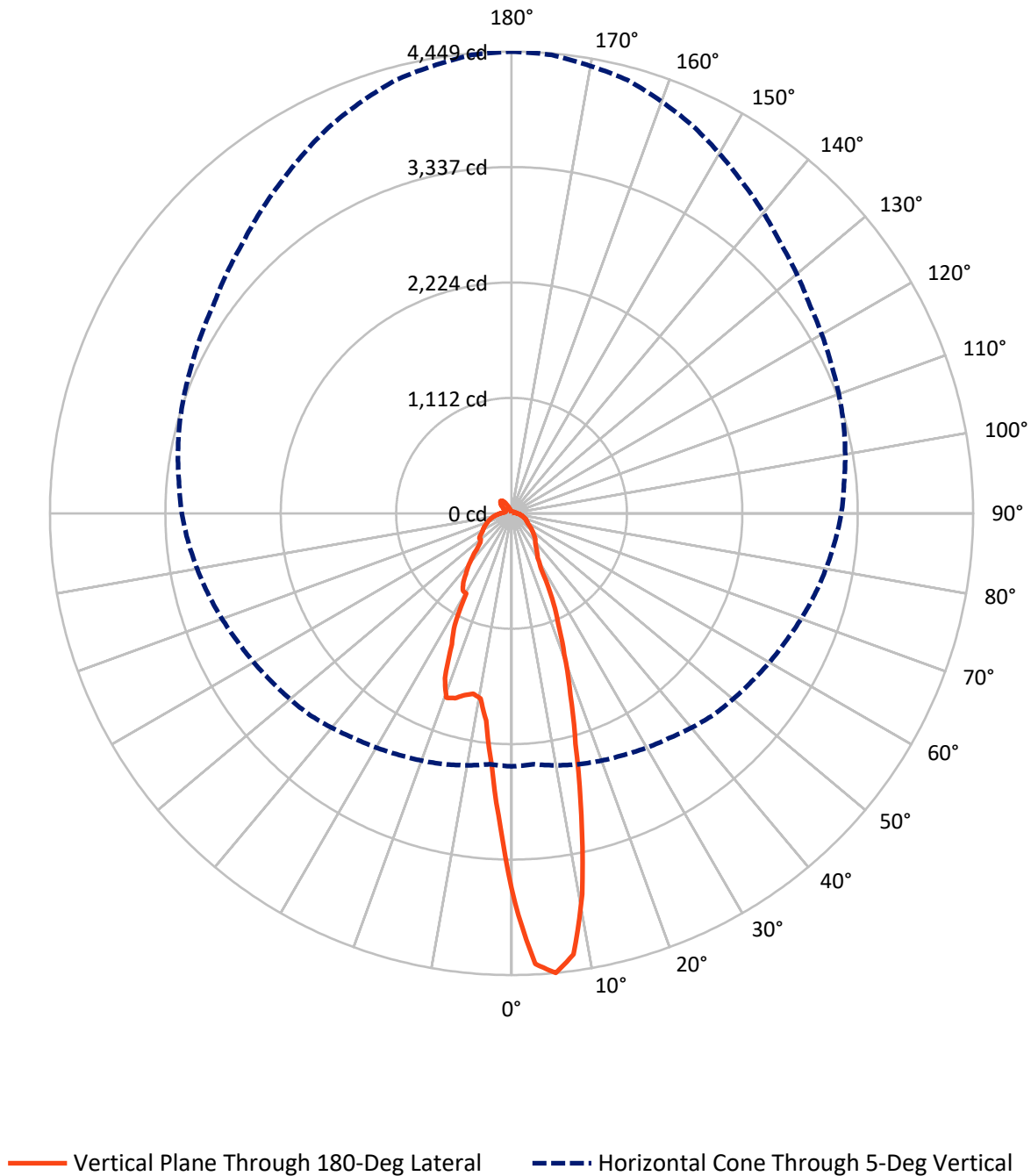
Based on 25 foot mounting height. Maximum calculated value = 6.7 fc

Type I - Short - N/A

REPORT NUMBER: P691473

CATALOG NUMBER: CRTK2-C016-D-U-T2-7030-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691473

CATALOG NUMBER: CRTK2-C016-D-U-T2-7030-RMARROA5-HSS-CRTK2

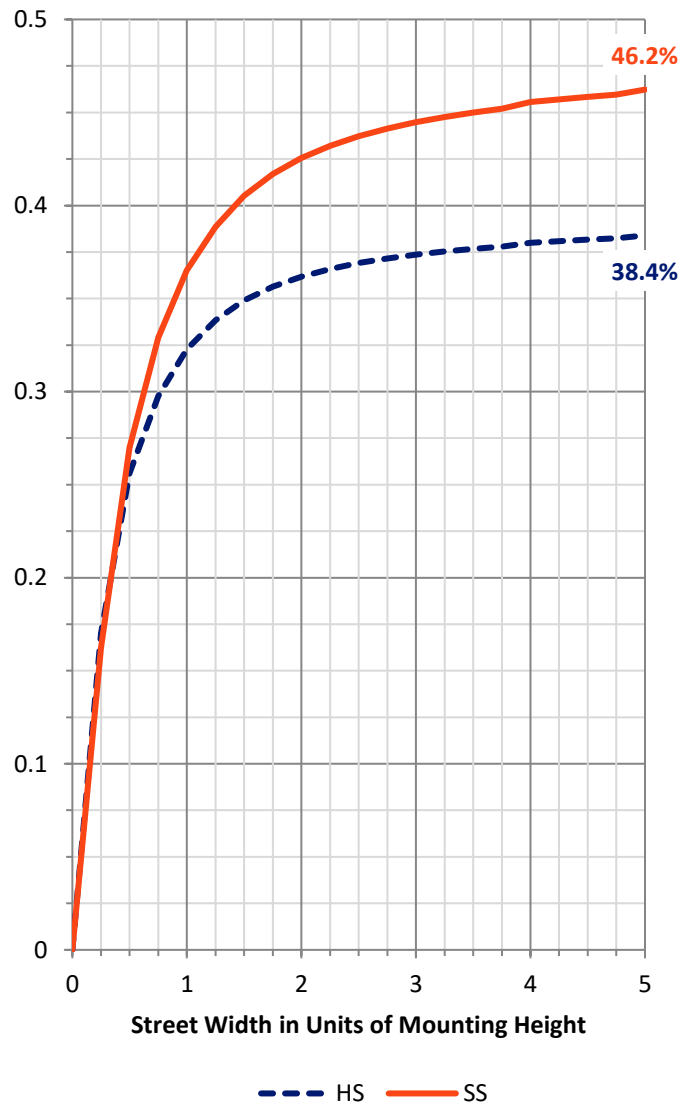
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1683.1	197.6	1880.8
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2022.9	367.4	2390.3
	% Fixture	47.4	8.6	56.0
Total	Lumens	3706.0	565.0	4271.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	6.8
10°-20°	616.7	14.4
20°-30°	671.2	15.7
30°-40°	491.3	11.5
40°-50°	413.0	9.7
50°-60°	419.5	9.8
60°-70°	356.6	8.3
70°-80°	266.1	6.2
80°-90°	181.1	4.2
90°-100°	108.8	2.5
100°-110°	62.4	1.5
110°-120°	57.4	1.3
120°-130°	83.4	2.0
130°-140°	114.7	2.7
140°-150°	94.9	2.2
150°-160°	38.6	0.9
160°-170°	4.8	0.1
170°-180°	0.0	0.0
0°-90°	3706.0	86.8
0°-180°	4271.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691473

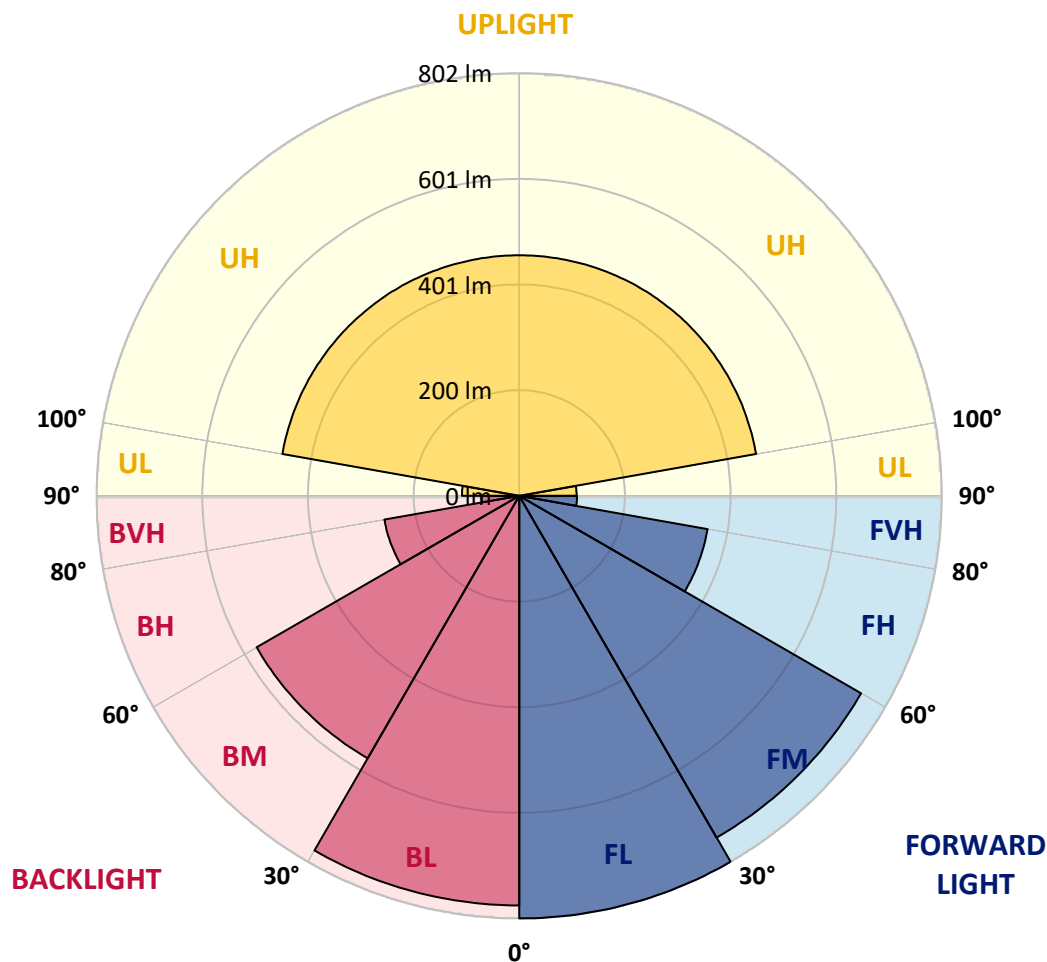
CATALOG NUMBER: CRTK2-C016-D-U-T2-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	801.6	18.8			
FM	(30°-60°)	748.8	17.5			
FH	(60°-80°)	362.8	8.5			G0/660
FVH	(80°-90°)	109.7	2.6			G2/225
BL	(0°-30°)	776.9	18.2	B2/1000		
BM	(30°-60°)	575.0	13.5	B1/1000		
BH	(60°-80°)	259.8	6.1	B1/500		G1/500
BVH	(80°-90°)	71.4	1.7			G1/100
UL	(90°-100°)	108.8	2.5		U3/500	
UH	(100°-180°)	456.2	10.7		U3/500	

BUG Rating: B2-U3-G2

Type I Short





REPORT NUMBER: P691473

CATALOG NUMBER: CRTK2-C016-D-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5
2.5°	3028.0	3022.3	3064.1	3073.6	3077.4	3121.2	3180.1	3220.1	3292.3	3362.7	3391.2
5°	2438.3	2426.9	2503.0	2567.7	2645.7	2748.4	2824.4	2915.7	3024.2	3128.8	3178.2
7.5°	2010.4	2025.6	2134.0	2267.2	2392.7	2514.4	2607.6	2685.6	2748.4	2814.9	2828.3
10°	1808.8	1822.1	1928.6	2056.0	2172.1	2295.7	2375.6	2442.1	2482.1	2531.5	2548.7
12.5°	1776.5	1786.0	1858.2	1947.6	2035.1	2147.3	2248.1	2322.3	2368.0	2407.9	2411.7
15°	1808.8	1812.6	1856.3	1915.3	1991.4	2084.6	2200.6	2284.3	2335.6	2352.8	2349.0
17.5°	1862.0	1862.0	1883.0	1932.4	2004.7	2094.1	2204.4	2290.0	2343.2	2350.9	2335.6
20°	1884.9	1888.7	1902.0	1957.1	2021.8	2103.6	2213.9	2286.2	2328.0	2307.1	2280.5
22.5°	1713.7	1706.1	1742.2	1858.2	2002.8	2149.2	2253.9	2335.6	2358.5	2288.1	2231.0
25°	1386.5	1390.4	1413.2	1470.2	1582.5	1717.5	1949.5	2198.7	2371.8	2345.1	2259.6
27.5°	1209.7	1198.3	1204.0	1213.5	1198.3	1169.7	1196.3	1190.6	1186.8	1255.3	1262.9
30°	888.2	890.1	899.6	916.8	952.9	1006.2	1063.2	1095.5	1124.1	1177.3	1169.7
32.5°	882.5	884.4	890.1	905.3	924.4	960.5	996.6	1010.0	1040.4	1084.1	1070.8
35°	825.5	819.8	835.0	848.3	854.0	869.2	897.7	916.8	935.8	966.2	958.6
37.5°	732.3	734.2	764.6	785.5	791.2	812.1	838.8	854.0	874.9	901.5	888.2
40°	652.4	654.3	690.4	713.2	726.6	755.1	795.0	814.0	848.3	869.2	854.0
42.5°	561.1	568.7	593.4	620.0	627.7	644.8	671.4	696.1	739.9	768.4	758.9
45°	467.9	471.7	488.8	515.4	526.9	545.9	570.6	593.4	627.7	650.5	648.6
47.5°	412.7	416.5	431.8	454.6	477.4	502.1	528.8	551.6	583.9	602.9	595.3
50°	389.9	393.7	412.7	439.4	467.9	500.2	532.6	557.3	587.7	599.1	589.6
52.5°	393.7	393.7	420.3	454.6	494.5	538.3	578.2	608.6	633.4	641.0	620.0
55°	372.8	378.5	407.0	454.6	515.4	583.9	652.4	717.0	753.2	745.6	705.6
57.5°	340.5	346.2	367.1	418.4	483.1	564.9	661.9	741.8	785.5	791.2	751.3
60°	321.4	325.2	344.3	384.2	441.3	507.8	595.3	660.0	709.4	724.7	696.1
62.5°	304.3	308.1	323.3	353.8	395.6	447.0	496.4	538.3	578.2	593.4	582.0
65°	285.3	287.2	302.4	329.0	363.3	407.0	448.9	479.3	511.6	521.1	507.8
67.5°	266.3	268.2	281.5	306.2	338.6	378.5	410.8	445.1	477.4	485.0	475.5
70°	249.2	251.1	262.5	285.3	313.8	351.9	382.3	405.1	437.5	445.1	433.7
72.5°	232.0	233.9	245.4	266.3	292.9	327.1	353.8	376.6	403.2	405.1	395.6
75°	214.9	216.8	226.3	245.4	268.2	302.4	327.1	346.2	369.0	369.0	357.6
77.5°	195.9	199.7	207.3	224.4	245.4	277.7	300.5	319.5	338.6	336.7	325.2
80°	178.8	180.7	188.3	203.5	222.5	253.0	275.8	291.0	308.1	306.2	296.7
82.5°	159.8	161.7	167.4	182.6	199.7	228.2	251.1	266.3	281.5	277.7	268.2
85°	140.7	142.6	150.3	161.7	178.8	205.4	226.3	241.6	253.0	249.2	241.6
87.5°	125.5	125.5	131.2	142.6	157.9	182.6	201.6	216.8	226.3	224.4	216.8
90°	108.4	110.3	114.1	123.6	136.9	157.9	176.9	190.2	199.7	195.9	188.3
92.5°	95.1	95.1	98.9	108.4	119.8	138.8	156.0	167.4	175.0	173.1	167.4
95°	81.8	83.7	85.6	93.2	102.7	117.9	133.1	144.6	152.2	150.3	146.5
97.5°	72.3	74.2	76.1	79.9	89.4	98.9	112.2	121.7	129.3	127.4	123.6
100°	66.6	66.6	66.6	70.4	76.1	83.7	93.2	100.8	104.6	106.5	102.7
102.5°	60.9	60.9	62.8	62.8	66.6	70.4	76.1	81.8	83.7	83.7	83.7
105°	59.0	59.0	60.9	60.9	62.8	64.7	68.5	70.4	72.3	72.3	70.4
107.5°	59.0	59.0	59.0	59.0	60.9	62.8	64.7	66.6	66.6	66.6	64.7
110°	60.9	60.9	60.9	60.9	60.9	62.8	62.8	64.7	64.7	62.8	62.8



REPORT NUMBER: P691473

CATALOG NUMBER: CRTK2-C016-D-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	62.8	62.8	62.8	62.8	62.8	64.7	64.7	64.7	64.7	62.8	62.8
115°	66.6	66.6	66.6	68.5	68.5	68.5	68.5	68.5	68.5	66.6	64.7
117.5°	74.2	74.2	74.2	74.2	76.1	76.1	76.1	76.1	76.1	72.3	72.3
120°	83.7	81.8	83.7	85.6	87.5	87.5	87.5	87.5	87.5	83.7	81.8
122.5°	93.2	93.2	95.1	98.9	102.7	104.6	102.7	102.7	102.7	97.0	95.1
125°	104.6	104.6	110.3	117.9	123.6	125.5	123.6	123.6	123.6	117.9	114.1
127.5°	117.9	117.9	125.5	136.9	146.5	152.2	150.3	150.3	150.3	140.7	135.0
130°	131.2	131.2	142.6	157.9	173.1	176.9	178.8	180.7	180.7	169.3	161.7
132.5°	140.7	142.6	156.0	176.9	195.9	201.6	207.3	209.2	209.2	195.9	184.5
135°	150.3	152.2	169.3	194.0	214.9	228.2	233.9	235.8	237.7	222.5	209.2
137.5°	156.0	157.9	176.9	205.4	226.3	243.5	256.8	260.6	260.6	243.5	226.3
140°	156.0	157.9	178.8	205.4	228.2	249.2	264.4	272.0	272.0	254.9	239.7
142.5°	152.2	156.0	175.0	201.6	224.4	245.4	262.5	270.1	270.1	254.9	239.7
145°	144.6	146.5	165.5	188.3	211.1	235.8	254.9	262.5	262.5	247.3	232.0
147.5°	131.2	133.1	148.4	169.3	192.1	216.8	235.8	245.4	243.5	230.1	216.8
150°	114.1	114.1	127.4	144.6	167.4	190.2	209.2	218.7	218.7	205.4	194.0
152.5°	93.2	93.2	102.7	116.0	135.0	157.9	173.1	182.6	182.6	173.1	163.6
155°	72.3	72.3	79.9	89.4	104.6	121.7	133.1	142.6	142.6	135.0	127.4
157.5°	51.4	51.4	59.0	66.6	78.0	91.3	100.8	106.5	108.4	100.8	97.0
160°	34.2	34.2	38.0	43.7	53.3	62.8	68.5	74.2	76.1	70.4	68.5
162.5°	19.0	19.0	20.9	26.6	32.3	38.0	43.7	47.5	47.5	45.6	43.7
165°	5.7	5.7	7.6	9.5	13.3	17.1	19.0	20.9	22.8	22.8	20.9
167.5°	0.0	0.0	1.9	1.9	1.9	1.9	3.8	3.8	5.7	5.7	5.7
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: P691473

CATALOG NUMBER: CRTK2-C016-D-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5
2.5°	3450.2	3556.7	3672.7	3785.0	3921.9	4064.5	4195.8	4285.2	4332.7	4347.9	4347.9
5°	3216.3	3313.3	3398.8	3505.4	3670.8	3885.8	4123.5	4321.3	4433.5	4446.8	4448.7
7.5°	2851.1	2931.0	3020.4	3115.5	3261.9	3454.0	3767.8	4087.4	4270.0	4304.2	4290.9
10°	2552.5	2601.9	2655.2	2691.3	2794.0	2936.7	3149.7	3463.5	3688.0	3714.6	3733.6
12.5°	2413.6	2421.2	2406.0	2413.6	2447.9	2514.4	2619.0	2799.7	2946.2	2970.9	2984.2
15°	2343.2	2305.2	2244.3	2187.3	2156.9	2162.6	2185.4	2259.6	2284.3	2326.1	2307.1
17.5°	2310.9	2225.3	2130.2	2019.9	1951.4	1881.1	1843.0	1829.7	1820.2	1822.1	1839.2
20°	2229.1	2132.1	1980.0	1835.4	1725.1	1628.1	1546.3	1487.4	1455.0	1439.8	1451.2
22.5°	2143.5	1993.3	1814.5	1658.5	1500.7	1377.0	1283.8	1198.3	1150.7	1164.0	1148.8
25°	2145.4	1921.0	1708.0	1502.6	1354.2	1190.6	1042.3	952.9	874.9	890.1	911.1
27.5°	1352.3	1293.4	1141.2	1021.4	873.0	791.2	717.0	654.3	610.5	612.4	606.7
30°	1146.9	1086.0	1010.0	914.9	802.6	707.5	621.9	549.7	507.8	496.4	494.5
32.5°	1059.4	1008.1	937.7	844.5	741.8	646.7	561.1	494.5	452.7	450.8	450.8
35°	943.4	895.8	836.9	757.0	669.5	582.0	502.1	445.1	410.8	410.8	408.9
37.5°	871.1	829.3	772.2	698.0	620.0	532.6	462.2	410.8	374.7	372.8	374.7
40°	833.1	789.3	734.2	663.8	585.8	502.1	435.6	382.3	355.7	353.8	351.9
42.5°	757.0	722.8	675.2	610.5	542.1	467.9	405.1	357.6	334.7	332.8	334.7
45°	642.9	618.1	585.8	538.3	481.2	418.4	363.3	327.1	304.3	304.3	304.3
47.5°	589.6	566.8	530.7	483.1	433.7	374.7	329.0	298.6	277.7	277.7	277.7
50°	576.3	547.8	500.2	447.0	393.7	342.4	300.5	270.1	254.9	253.0	254.9
52.5°	595.3	551.6	486.9	424.1	365.2	315.7	275.8	247.3	232.0	232.0	232.0
55°	663.8	583.9	498.3	418.4	348.1	292.9	253.0	224.4	209.2	207.3	209.2
57.5°	709.4	608.6	502.1	412.7	336.7	277.7	233.9	203.5	188.3	186.4	188.3
60°	669.5	587.7	485.0	397.5	327.1	266.3	220.6	190.2	175.0	173.1	173.1
62.5°	555.4	507.8	433.7	359.5	302.4	249.2	207.3	178.8	163.6	161.7	163.6
65°	492.6	450.8	386.1	327.1	277.7	232.0	195.9	171.2	156.0	156.0	156.0
67.5°	458.4	420.3	359.5	302.4	256.8	214.9	180.7	157.9	144.6	144.6	144.6
70°	418.4	380.4	325.2	273.9	232.0	195.9	165.5	142.6	131.2	129.3	131.2
72.5°	384.2	346.2	294.8	247.3	209.2	176.9	150.3	129.3	119.8	117.9	119.8
75°	346.2	310.0	260.6	218.7	186.4	157.9	135.0	116.0	108.4	106.5	106.5
77.5°	313.8	279.6	233.9	195.9	167.4	140.7	119.8	106.5	98.9	97.0	97.0
80°	285.3	253.0	209.2	175.0	148.4	125.5	108.4	95.1	87.5	87.5	87.5
82.5°	254.9	226.3	186.4	154.1	131.2	112.2	95.1	83.7	78.0	78.0	78.0
85°	230.1	201.6	163.6	136.9	114.1	97.0	83.7	74.2	68.5	68.5	68.5
87.5°	203.5	178.8	144.6	119.8	100.8	85.6	72.3	62.8	60.9	59.0	59.0
90°	176.9	154.1	123.6	102.7	85.6	72.3	60.9	53.3	51.4	49.5	49.5
92.5°	157.9	136.9	112.2	93.2	78.0	64.7	57.1	49.5	47.5	47.5	45.6
95°	136.9	119.8	98.9	83.7	70.4	60.9	53.3	47.5	45.6	45.6	43.7
97.5°	117.9	102.7	87.5	76.1	64.7	57.1	49.5	45.6	41.8	41.8	41.8
100°	98.9	87.5	76.1	64.7	59.0	51.4	45.6	41.8	39.9	38.0	38.0
102.5°	79.9	72.3	62.8	57.1	49.5	43.7	39.9	36.1	34.2	34.2	34.2
105°	68.5	62.8	57.1	51.4	45.6	39.9	36.1	32.3	30.4	30.4	30.4
107.5°	62.8	59.0	53.3	47.5	43.7	38.0	34.2	28.5	26.6	28.5	28.5
110°	60.9	57.1	51.4	47.5	41.8	38.0	34.2	26.6	24.7	26.6	26.6



REPORT NUMBER: P691473

CATALOG NUMBER: CRTK2-C016-D-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	60.9	57.1	53.3	47.5	43.7	38.0	34.2	26.6	24.7	24.7	24.7
115°	62.8	60.9	55.2	51.4	45.6	39.9	34.2	26.6	24.7	24.7	24.7
117.5°	70.4	66.6	60.9	55.2	49.5	41.8	36.1	26.6	24.7	24.7	24.7
120°	78.0	74.2	68.5	60.9	53.3	45.6	38.0	26.6	22.8	24.7	24.7
122.5°	91.3	85.6	78.0	68.5	59.0	49.5	38.0	28.5	20.9	24.7	24.7
125°	108.4	100.8	89.4	76.1	64.7	53.3	39.9	28.5	22.8	24.7	24.7
127.5°	127.4	117.9	102.7	85.6	70.4	55.2	41.8	28.5	22.8	22.8	24.7
130°	152.2	136.9	116.0	95.1	76.1	59.0	41.8	28.5	22.8	22.8	22.8
132.5°	173.1	154.1	127.4	102.7	79.9	60.9	41.8	28.5	20.9	20.9	20.9
135°	194.0	169.3	136.9	108.4	83.7	60.9	41.8	26.6	20.9	20.9	20.9
137.5°	211.1	178.8	144.6	110.3	83.7	59.0	39.9	24.7	19.0	19.0	19.0
140°	220.6	184.5	146.5	110.3	79.9	57.1	36.1	22.8	17.1	17.1	17.1
142.5°	220.6	182.6	144.6	106.5	76.1	53.3	32.3	19.0	15.2	15.2	15.2
145°	213.0	175.0	136.9	100.8	70.4	47.5	28.5	17.1	11.4	11.4	13.3
147.5°	199.7	161.7	125.5	91.3	62.8	39.9	24.7	13.3	9.5	9.5	9.5
150°	176.9	142.6	108.4	79.9	53.3	34.2	20.9	11.4	7.6	7.6	7.6
152.5°	148.4	117.9	91.3	66.6	43.7	26.6	15.2	9.5	5.7	5.7	5.7
155°	117.9	93.2	72.3	51.4	32.3	20.9	11.4	7.6	5.7	5.7	5.7
157.5°	87.5	70.4	53.3	38.0	24.7	15.2	9.5	5.7	3.8	3.8	3.8
160°	60.9	49.5	36.1	24.7	15.2	9.5	5.7	3.8	1.9	1.9	1.9
162.5°	39.9	30.4	22.8	15.2	9.5	5.7	3.8	1.9	1.9	1.9	1.9
165°	19.0	15.2	11.4	7.6	3.8	3.8	1.9	1.9	0.0	0.0	0.0
167.5°	5.7	3.8	1.9	1.9	1.9	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)