

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: P691413

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-16)
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-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR WITH HOUSE
SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4577 lumens
Efficiency: N/A
Efficacy: 106.9 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



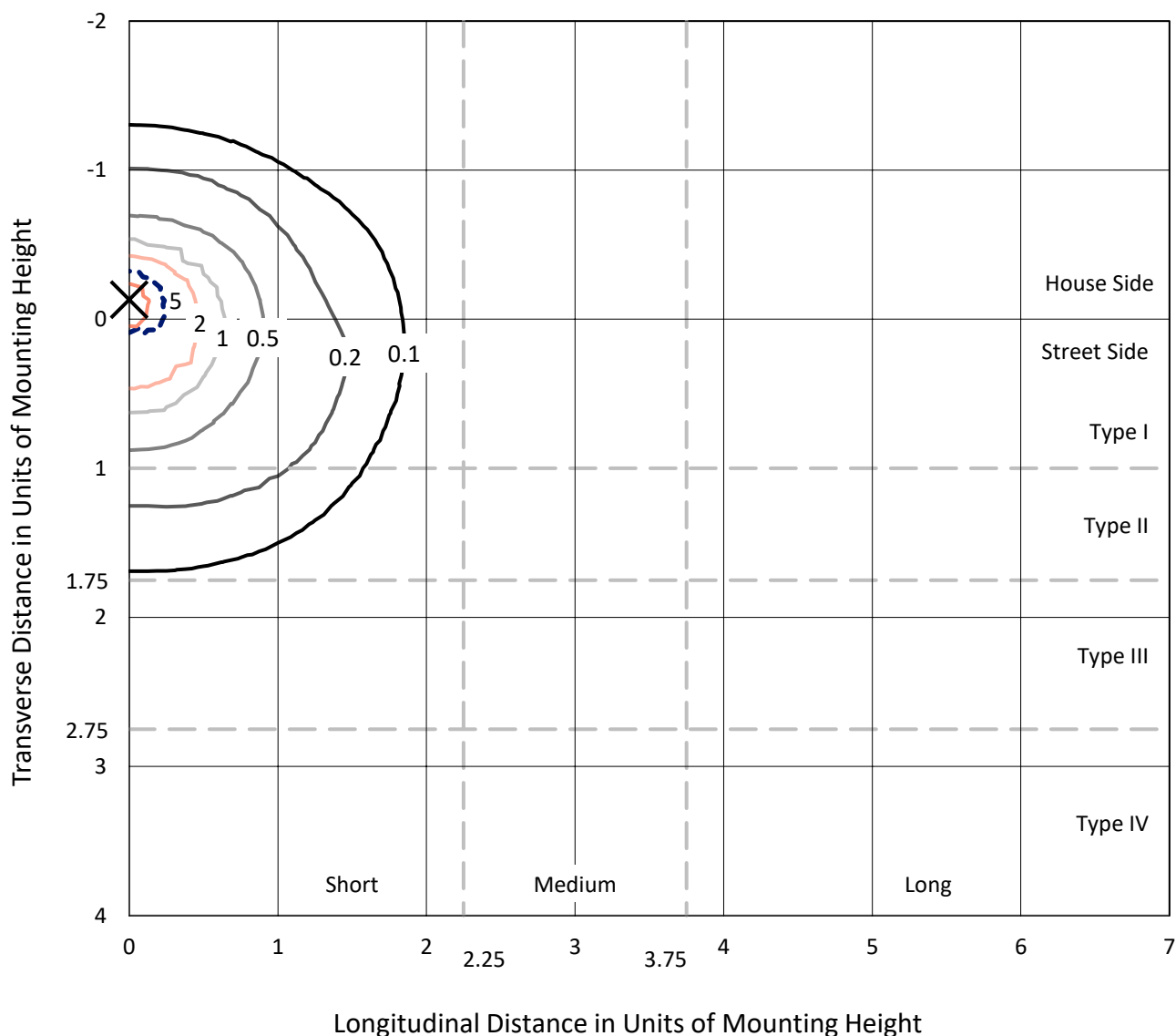
REPORT NUMBER: P691413

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



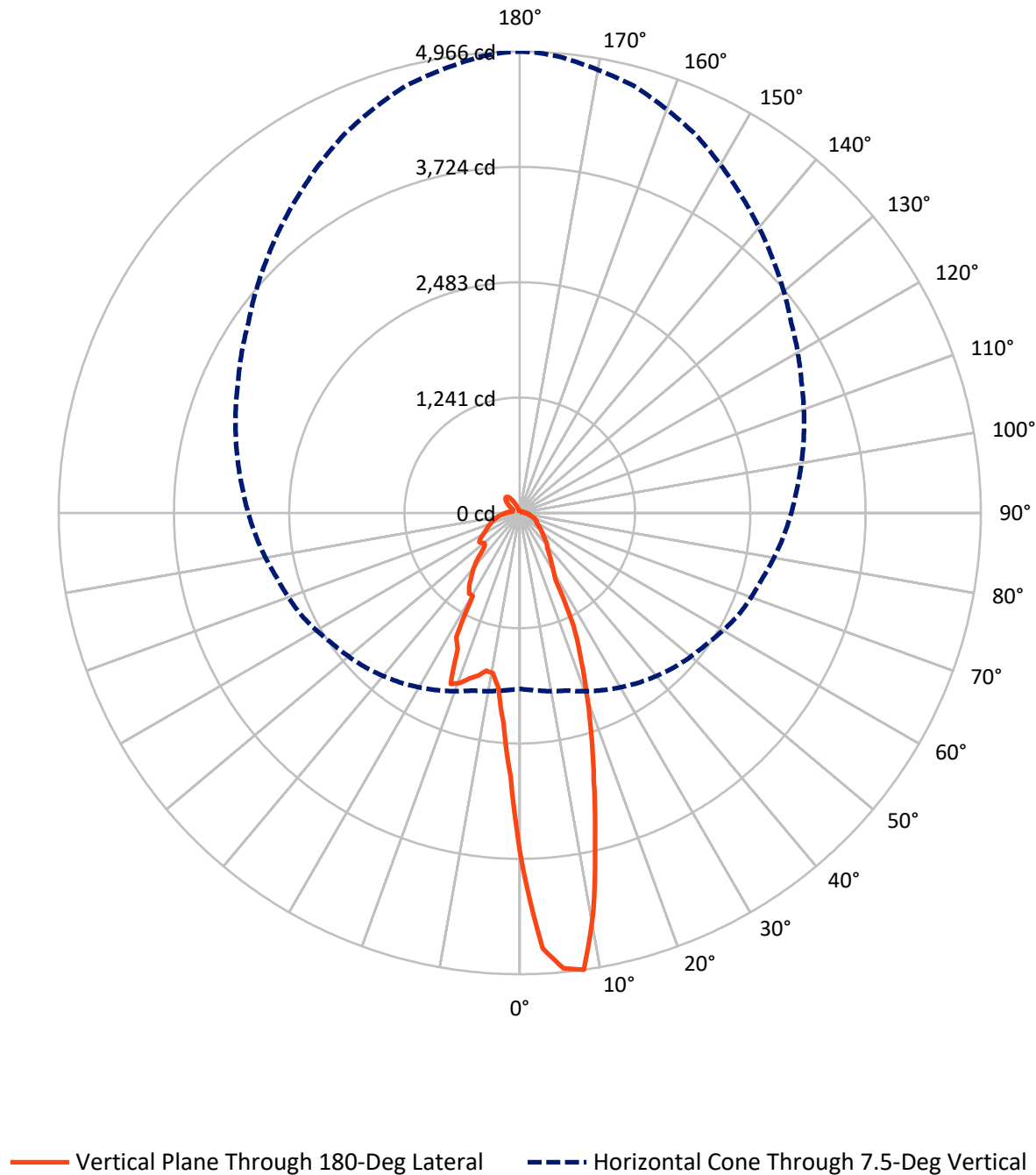
Based on 25 foot mounting height. Maximum calculated value = 7.8 fc

Type I - Short - N/A

REPORT NUMBER: P691413

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

Luminous Intensity Polar Plot



REPORT NUMBER: P691413

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

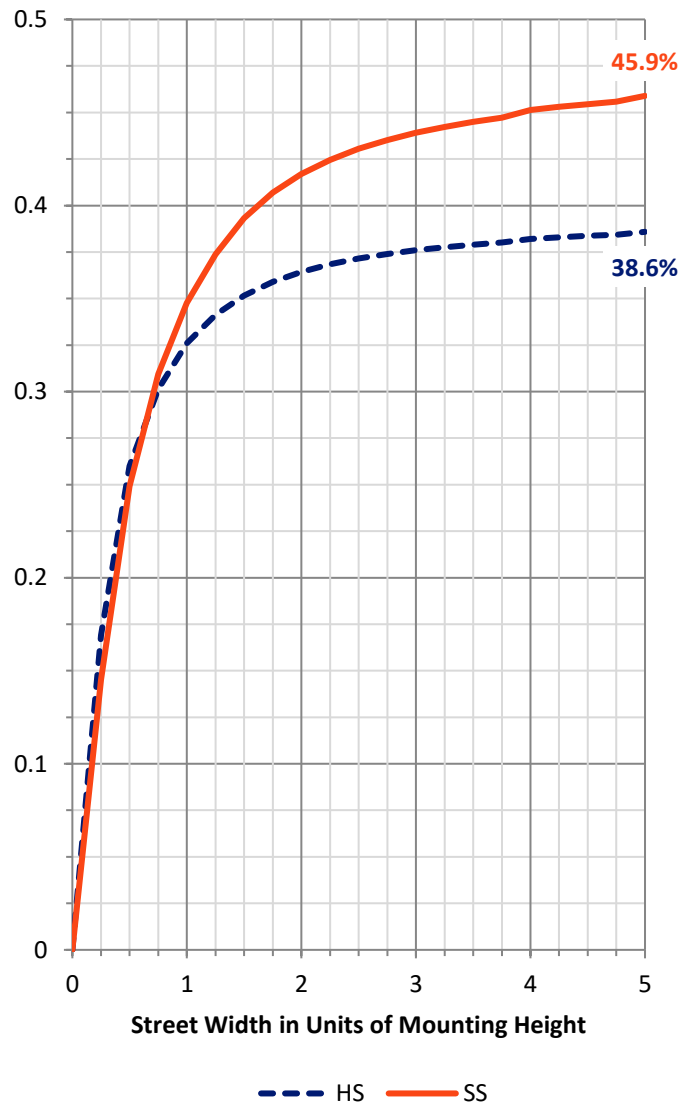
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.1	189.0	2001.1
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2160.9	415.0	2575.9
	% Fixture	47.2	9.1	56.3
Total	Lumens	3973.0	604.0	4577.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.6	6.7
10°-20°	656.0	14.3
20°-30°	724.4	15.8
30°-40°	525.4	11.5
40°-50°	442.6	9.7
50°-60°	451.9	9.9
60°-70°	385.1	8.4
70°-80°	287.1	6.3
80°-90°	193.8	4.2
90°-100°	115.8	2.5
100°-110°	66.6	1.5
110°-120°	62.3	1.4
120°-130°	90.7	2.0
130°-140°	123.3	2.7
140°-150°	100.3	2.2
150°-160°	40.0	0.9
160°-170°	4.9	0.1
170°-180°	0.0	0.0
0°-90°	3973.0	86.8
0°-180°	4577.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691413

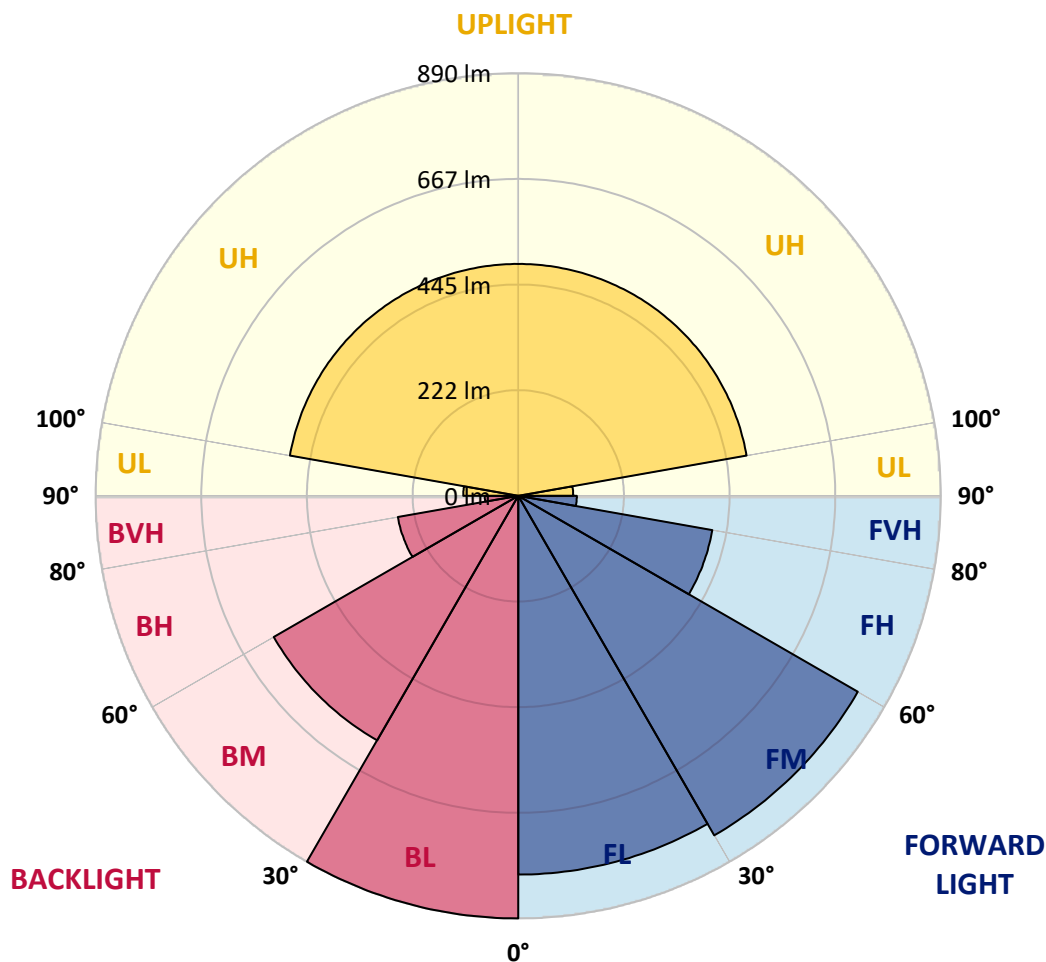
CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	797.3	17.4			
FM	(30°-60°)	825.4	18.0			
FH	(60°-80°)	414.9	9.1			G0/660
FVH	(80°-90°)	123.3	2.7			G2/225
BL	(0°-30°)	889.8	19.4	B2/1000		
BM	(30°-60°)	594.5	13.0	B1/1000		
BH	(60°-80°)	257.4	5.6	B1/500		G1/500
BVH	(80°-90°)	70.5	1.5			G1/100
UL	(90°-100°)	115.8	2.5		U3/500	
UH	(100°-180°)	488.1	10.7		U3/500	

BUG Rating: B2-U3-G2

Type I Short





REPORT NUMBER: P691413

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3
2.5°	2840.5	2906.4	2912.4	2984.3	3038.2	3088.2	3124.1	3228.0	3333.9	3433.7	3491.7
5°	2255.2	2287.2	2345.1	2423.0	2522.9	2600.8	2712.6	2858.5	2998.3	3174.1	3260.0
7.5°	1893.7	1917.6	1979.5	2105.4	2231.2	2351.1	2458.9	2598.8	2706.6	2852.5	2924.4
10°	1749.8	1763.8	1815.7	1903.6	2023.5	2123.4	2217.2	2323.1	2419.0	2552.8	2604.8
12.5°	1735.8	1741.8	1783.8	1845.7	1915.6	1997.5	2075.4	2165.3	2267.2	2373.1	2413.0
15°	1811.8	1807.8	1821.7	1857.7	1897.6	1961.6	2033.5	2115.4	2213.3	2291.2	2323.1
17.5°	1865.7	1863.7	1889.7	1905.6	1943.6	1981.5	2053.5	2117.4	2213.3	2275.2	2293.2
20°	1943.6	1947.6	1955.6	1985.5	2001.5	2027.5	2071.4	2109.4	2191.3	2227.2	2223.2
22.5°	1985.5	1983.5	2017.5	2087.4	2105.4	2119.4	2127.4	2143.3	2189.3	2187.3	2157.3
25°	1610.0	1614.0	1622.0	1681.9	1757.8	1881.7	1983.5	2143.3	2229.2	2197.3	2133.4
27.5°	1504.1	1492.1	1450.2	1416.2	1314.4	1246.5	1182.5	1154.6	1168.6	1192.5	1258.4
30°	1024.7	1026.7	1030.7	1036.7	1046.7	1072.7	1090.6	1092.6	1106.6	1146.6	1132.6
32.5°	1026.7	1028.7	1022.7	1028.7	1024.7	1034.7	1032.7	1024.7	1036.7	1072.7	1058.7
35°	964.8	960.8	964.8	966.8	944.8	936.8	934.8	928.8	936.8	954.8	942.8
37.5°	868.9	866.9	884.9	894.9	876.9	876.9	872.9	864.9	870.9	886.9	870.9
40°	785.0	787.0	813.0	829.0	823.0	829.0	835.0	833.0	846.9	852.9	833.0
42.5°	693.1	689.1	715.1	727.1	715.1	719.1	717.1	719.1	747.1	759.1	745.1
45°	579.3	585.3	597.3	613.2	611.2	617.2	615.2	619.2	637.2	643.2	633.2
47.5°	515.4	519.4	533.3	551.3	561.3	571.3	571.3	573.3	585.3	587.3	577.3
50°	501.4	505.4	523.4	543.3	559.3	571.3	577.3	575.3	581.3	577.3	563.3
52.5°	525.3	525.3	553.3	577.3	597.3	619.2	627.2	619.2	619.2	603.3	581.3
55°	535.3	537.3	571.3	613.2	651.2	691.1	717.1	715.1	713.1	687.1	647.2
57.5°	503.4	509.4	543.3	591.3	643.2	707.1	745.1	751.1	751.1	717.1	673.2
60°	457.4	461.4	487.4	527.3	579.3	627.2	667.2	671.2	683.2	665.2	625.2
62.5°	419.5	423.5	445.4	475.4	513.4	543.3	555.3	555.3	561.3	555.3	527.3
65°	391.5	393.5	411.5	437.5	463.4	487.4	499.4	495.4	503.4	495.4	473.4
67.5°	365.5	365.5	381.5	401.5	425.5	453.4	461.4	465.4	473.4	463.4	443.4
70°	339.6	341.6	357.6	373.5	395.5	415.5	423.5	425.5	435.5	423.5	409.5
72.5°	317.6	317.6	331.6	347.6	363.5	383.5	389.5	393.5	399.5	387.5	375.5
75°	291.6	293.6	305.6	319.6	333.6	353.6	359.6	361.6	367.5	353.6	341.6
77.5°	267.7	269.7	279.7	291.6	305.6	321.6	327.6	331.6	333.6	321.6	309.6
80°	243.7	245.7	253.7	265.7	277.7	293.6	297.6	299.6	303.6	289.6	281.7
82.5°	221.7	221.7	227.7	237.7	249.7	263.7	269.7	271.7	273.7	261.7	253.7
85°	195.8	195.8	201.7	211.7	221.7	235.7	241.7	243.7	243.7	233.7	225.7
87.5°	173.8	173.8	177.8	185.8	193.8	207.7	213.7	217.7	215.7	207.7	199.8
90°	151.8	151.8	155.8	161.8	169.8	181.8	187.8	189.8	189.8	179.8	173.8
92.5°	131.8	131.8	135.8	141.8	147.8	157.8	163.8	167.8	167.8	159.8	153.8
95°	113.9	113.9	115.9	121.8	127.8	135.8	139.8	143.8	143.8	139.8	133.8
97.5°	97.9	97.9	99.9	103.9	107.9	113.9	117.9	121.8	121.8	119.9	115.9
100°	85.9	85.9	85.9	87.9	91.9	93.9	97.9	101.9	101.9	99.9	97.9
102.5°	77.9	77.9	77.9	77.9	77.9	79.9	79.9	81.9	81.9	81.9	79.9
105°	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	71.9	69.9	67.9
107.5°	73.9	71.9	71.9	71.9	71.9	69.9	69.9	69.9	67.9	65.9	63.9
110°	73.9	73.9	73.9	73.9	71.9	69.9	69.9	67.9	65.9	63.9	61.9



REPORT NUMBER: P691413

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	77.9	77.9	77.9	75.9	73.9	73.9	71.9	69.9	67.9	63.9	61.9
115°	83.9	83.9	83.9	83.9	81.9	77.9	75.9	73.9	69.9	67.9	65.9
117.5°	93.9	93.9	93.9	93.9	89.9	87.9	83.9	81.9	77.9	73.9	71.9
120°	105.9	105.9	107.9	107.9	105.9	101.9	95.9	93.9	89.9	83.9	79.9
122.5°	123.8	121.8	125.8	125.8	125.8	121.8	113.9	109.9	105.9	97.9	93.9
125°	141.8	141.8	145.8	149.8	151.8	145.8	137.8	131.8	125.8	115.9	109.9
127.5°	161.8	161.8	169.8	177.8	181.8	175.8	165.8	159.8	151.8	137.8	129.8
130°	181.8	181.8	193.8	205.7	211.7	207.7	197.8	189.8	179.8	161.8	151.8
132.5°	199.8	199.8	213.7	229.7	237.7	235.7	225.7	217.7	209.7	187.8	173.8
135°	213.7	215.7	233.7	251.7	261.7	263.7	253.7	243.7	233.7	209.7	193.8
137.5°	221.7	225.7	243.7	265.7	275.7	281.7	275.7	265.7	253.7	227.7	209.7
140°	223.7	225.7	245.7	267.7	277.7	285.6	285.6	273.7	263.7	237.7	217.7
142.5°	217.7	219.7	239.7	259.7	269.7	279.7	281.7	271.7	261.7	237.7	217.7
145°	203.7	207.7	225.7	241.7	255.7	265.7	269.7	263.7	251.7	229.7	211.7
147.5°	185.8	187.8	203.7	217.7	231.7	243.7	249.7	243.7	233.7	213.7	197.8
150°	157.8	159.8	171.8	183.8	199.8	211.7	219.7	215.7	207.7	191.8	175.8
152.5°	127.8	127.8	137.8	147.8	161.8	173.8	181.8	179.8	173.8	159.8	147.8
155°	97.9	97.9	103.9	111.9	123.8	131.8	139.8	139.8	135.8	125.8	115.9
157.5°	69.9	69.9	75.9	81.9	89.9	97.9	103.9	103.9	101.9	93.9	87.9
160°	45.9	45.9	49.9	53.9	61.9	65.9	71.9	71.9	69.9	65.9	61.9
162.5°	24.0	24.0	28.0	30.0	36.0	40.0	43.9	45.9	45.9	41.9	40.0
165°	8.0	8.0	8.0	10.0	14.0	18.0	20.0	22.0	22.0	20.0	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	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: P691413

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3
2.5°	3553.6	3735.4	3891.2	4055.0	4236.7	4390.6	4546.4	4632.3	4706.2	4692.2	4692.2
5°	3343.9	3525.6	3715.4	3915.1	4160.8	4412.5	4652.2	4824.0	4913.9	4927.9	4925.9
7.5°	2996.3	3166.1	3345.8	3567.6	3855.2	4162.8	4488.4	4758.1	4927.9	4959.8	4965.8
10°	2652.7	2780.6	2932.4	3084.2	3341.9	3623.5	3915.1	4130.9	4296.7	4320.6	4348.6
12.5°	2447.0	2516.9	2614.8	2720.6	2888.4	3094.2	3333.9	3457.7	3563.6	3575.6	3601.5
15°	2341.1	2375.1	2399.0	2437.0	2536.9	2664.7	2774.6	2896.4	2940.4	2970.3	2984.3
17.5°	2299.1	2295.2	2271.2	2271.2	2279.2	2327.1	2397.0	2439.0	2466.9	2480.9	2484.9
20°	2213.3	2177.3	2129.4	2065.4	2031.5	2015.5	2033.5	2043.5	2035.5	2025.5	2043.5
22.5°	2123.4	2047.5	1961.6	1887.7	1799.8	1745.8	1693.9	1675.9	1653.9	1667.9	1667.9
25°	2095.4	1961.6	1823.7	1699.9	1568.1	1478.2	1382.3	1348.3	1314.4	1342.3	1342.3
27.5°	1238.5	1238.5	1160.6	1056.7	942.8	894.9	856.9	835.0	821.0	827.0	827.0
30°	1108.6	1056.7	1008.7	942.8	854.9	797.0	747.1	717.1	703.1	699.1	703.1
32.5°	1028.7	988.8	930.8	864.9	787.0	723.1	667.2	637.2	615.2	619.2	621.2
35°	920.9	878.9	829.0	767.0	701.1	641.2	591.3	561.3	541.3	541.3	543.3
37.5°	852.9	811.0	763.1	707.1	643.2	585.3	539.3	503.4	485.4	483.4	483.4
40°	811.0	769.0	725.1	669.2	609.2	549.3	503.4	471.4	449.4	449.4	451.4
42.5°	735.1	695.1	657.2	607.2	553.3	501.4	457.4	429.5	407.5	403.5	407.5
45°	619.2	597.3	567.3	533.3	487.4	445.4	405.5	381.5	363.5	363.5	361.6
47.5°	567.3	545.3	513.4	479.4	441.5	399.5	367.5	345.6	329.6	329.6	329.6
50°	547.3	523.4	483.4	445.4	401.5	365.5	337.6	315.6	303.6	303.6	301.6
52.5°	557.3	519.4	467.4	413.5	371.5	335.6	307.6	285.6	275.7	275.7	273.7
55°	611.2	543.3	467.4	401.5	351.6	311.6	283.6	259.7	249.7	249.7	249.7
57.5°	633.2	557.3	463.4	389.5	333.6	291.6	257.7	235.7	225.7	225.7	223.7
60°	593.3	529.3	443.4	373.5	319.6	277.7	245.7	223.7	211.7	211.7	209.7
62.5°	505.4	459.4	393.5	341.6	299.6	261.7	233.7	211.7	201.7	201.7	201.7
65°	453.4	413.5	361.6	315.6	277.7	245.7	219.7	201.7	191.8	191.8	191.8
67.5°	423.5	389.5	337.6	293.6	255.7	225.7	201.7	185.8	177.8	175.8	177.8
70°	391.5	355.6	307.6	265.7	231.7	203.7	181.8	165.8	157.8	157.8	157.8
72.5°	357.6	323.6	277.7	239.7	205.7	183.8	161.8	147.8	139.8	139.8	137.8
75°	325.6	291.6	247.7	211.7	183.8	161.8	143.8	131.8	123.8	123.8	123.8
77.5°	295.6	263.7	221.7	189.8	163.8	145.8	127.8	117.9	111.9	111.9	109.9
80°	267.7	237.7	197.8	169.8	145.8	129.8	113.9	105.9	99.9	99.9	99.9
82.5°	239.7	211.7	175.8	149.8	129.8	113.9	101.9	93.9	89.9	87.9	89.9
85°	213.7	187.8	155.8	131.8	113.9	99.9	89.9	81.9	77.9	77.9	77.9
87.5°	189.8	165.8	137.8	115.9	99.9	87.9	77.9	71.9	69.9	67.9	67.9
90°	163.8	141.8	117.9	99.9	85.9	75.9	65.9	61.9	57.9	57.9	57.9
92.5°	145.8	127.8	105.9	89.9	77.9	69.9	61.9	57.9	53.9	53.9	53.9
95°	127.8	111.9	93.9	81.9	71.9	63.9	57.9	53.9	51.9	51.9	51.9
97.5°	109.9	97.9	83.9	73.9	65.9	59.9	53.9	49.9	47.9	47.9	47.9
100°	91.9	83.9	73.9	65.9	59.9	53.9	47.9	45.9	43.9	43.9	43.9
102.5°	75.9	69.9	61.9	55.9	49.9	45.9	41.9	40.0	38.0	38.0	38.0
105°	65.9	61.9	55.9	49.9	45.9	41.9	38.0	34.0	34.0	34.0	34.0
107.5°	61.9	55.9	51.9	47.9	43.9	38.0	36.0	32.0	30.0	30.0	30.0
110°	59.9	55.9	51.9	45.9	41.9	38.0	34.0	30.0	28.0	28.0	28.0



REPORT NUMBER: P691413

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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	59.9	55.9	51.9	47.9	43.9	38.0	36.0	28.0	26.0	26.0	26.0
115°	63.9	59.9	53.9	49.9	43.9	40.0	36.0	28.0	26.0	26.0	26.0
117.5°	67.9	63.9	57.9	53.9	47.9	41.9	36.0	28.0	26.0	26.0	26.0
120°	77.9	71.9	63.9	57.9	51.9	43.9	38.0	28.0	24.0	26.0	26.0
122.5°	87.9	81.9	71.9	63.9	55.9	47.9	38.0	28.0	24.0	26.0	26.0
125°	103.9	93.9	81.9	71.9	59.9	49.9	40.0	28.0	22.0	24.0	26.0
127.5°	121.8	109.9	93.9	79.9	65.9	51.9	40.0	28.0	22.0	24.0	24.0
130°	141.8	125.8	105.9	85.9	69.9	53.9	40.0	28.0	22.0	24.0	24.0
132.5°	161.8	139.8	115.9	93.9	73.9	55.9	40.0	26.0	22.0	22.0	22.0
135°	177.8	151.8	123.8	97.9	75.9	55.9	38.0	26.0	20.0	20.0	20.0
137.5°	191.8	161.8	129.8	99.9	75.9	53.9	36.0	24.0	18.0	18.0	18.0
140°	199.8	165.8	131.8	97.9	71.9	51.9	34.0	22.0	16.0	16.0	16.0
142.5°	199.8	163.8	127.8	95.9	67.9	47.9	30.0	18.0	14.0	14.0	14.0
145°	191.8	155.8	121.8	89.9	61.9	41.9	26.0	16.0	12.0	12.0	12.0
147.5°	179.8	143.8	111.9	81.9	55.9	36.0	22.0	14.0	10.0	10.0	10.0
150°	159.8	127.8	97.9	69.9	47.9	30.0	18.0	12.0	8.0	8.0	8.0
152.5°	133.8	105.9	81.9	57.9	40.0	24.0	16.0	8.0	6.0	6.0	6.0
155°	105.9	83.9	63.9	45.9	30.0	18.0	12.0	8.0	4.0	4.0	4.0
157.5°	79.9	61.9	47.9	34.0	22.0	14.0	8.0	6.0	4.0	4.0	4.0
160°	55.9	43.9	32.0	22.0	14.0	10.0	6.0	4.0	2.0	2.0	2.0
162.5°	36.0	28.0	20.0	14.0	8.0	6.0	4.0	2.0	2.0	2.0	0.0
165°	18.0	14.0	10.0	6.0	4.0	2.0	2.0	2.0	0.0	0.0	0.0
167.5°	4.0	4.0	4.0	2.0	2.0	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)