

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: P691949

Luminaire Tested: **CRTK2-C01HO-D-U-T2-7050-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691949
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-C01HO-D-U-T2-7050-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K 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: 8691 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

Input Watts (W): 79
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

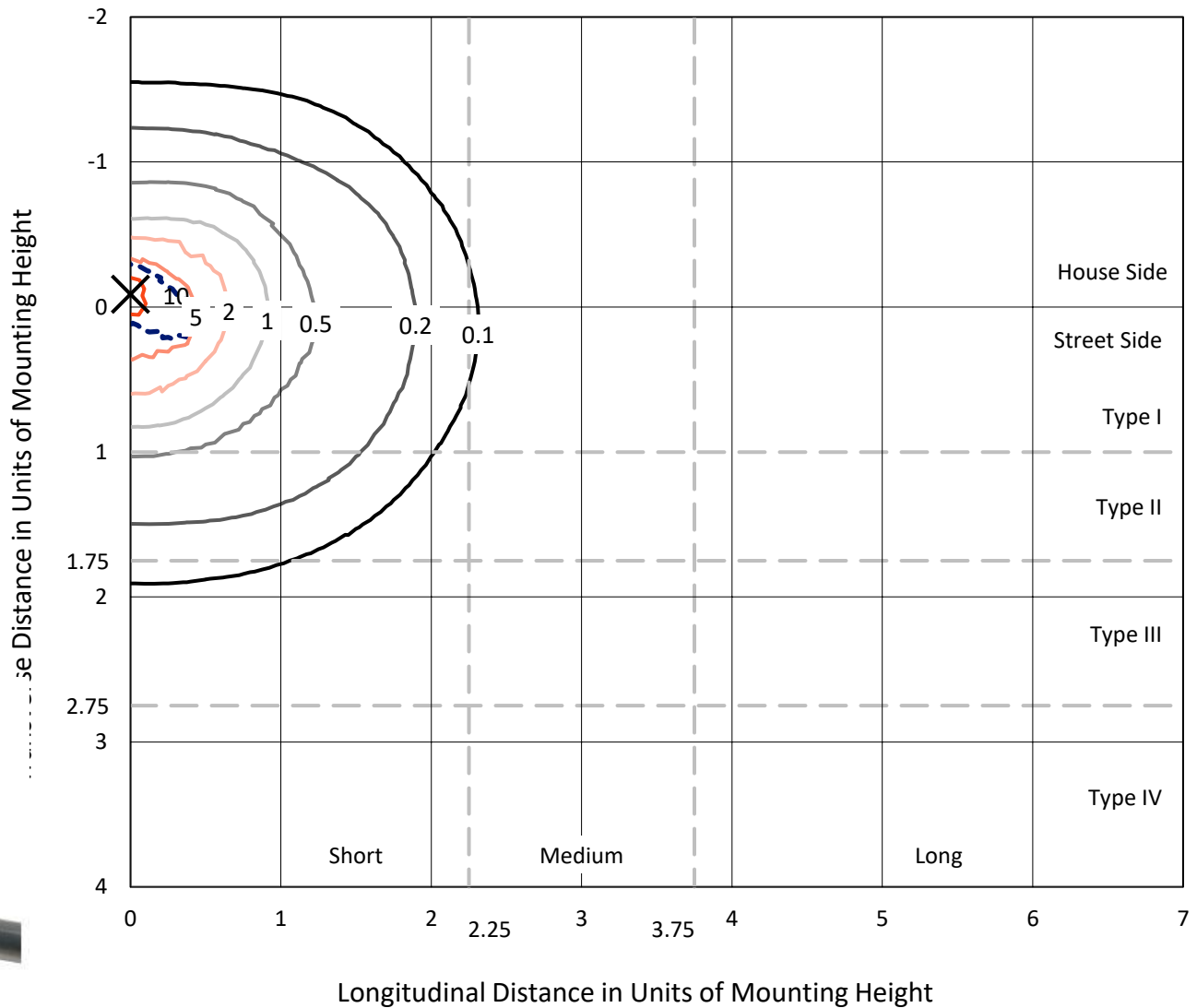


REPORT NUMBER: P691949

CATALOG NUMBER: CRTK2-C01HO-D-U-T2-7050-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

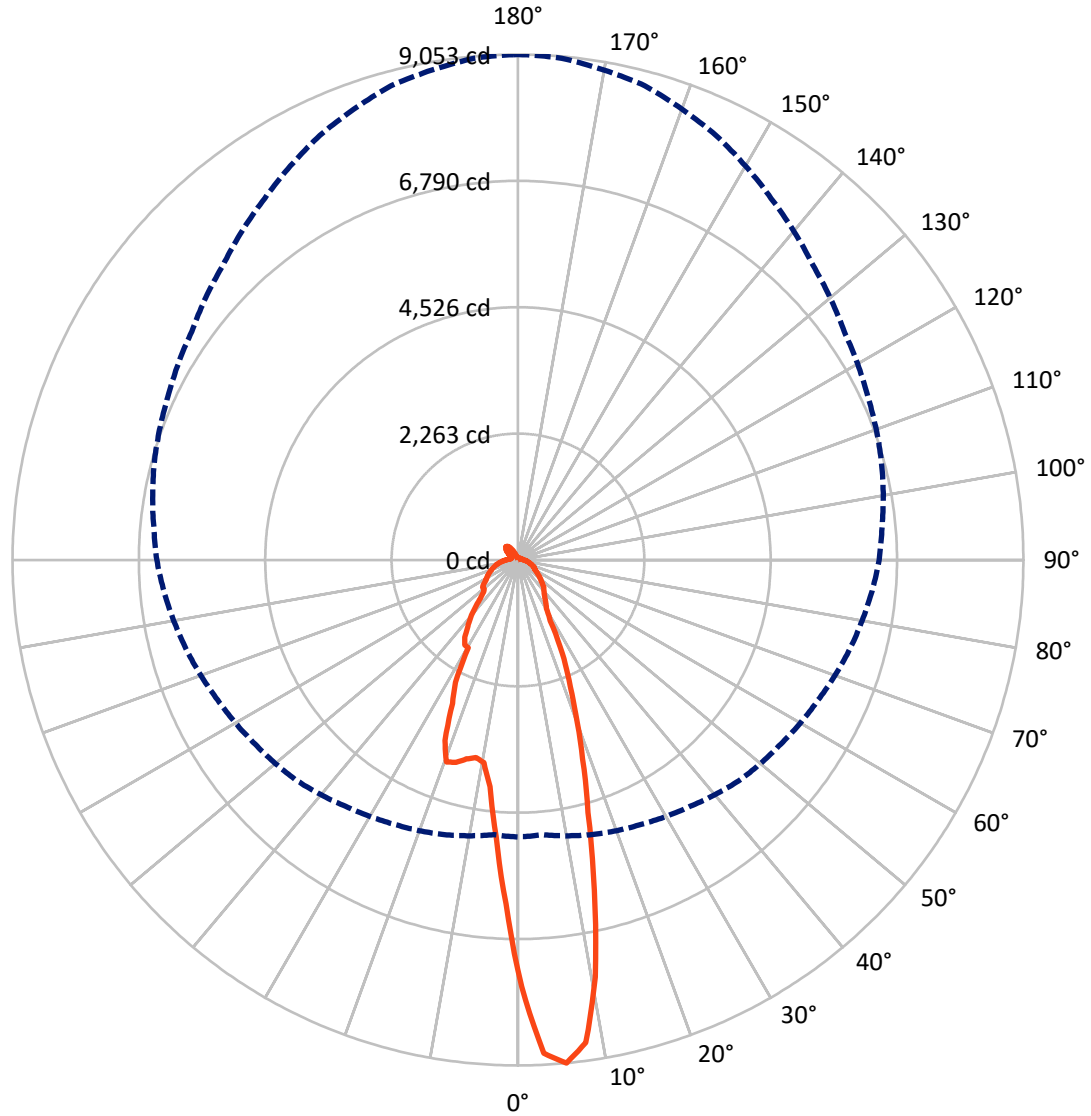
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type I - Short - N/A

REPORT NUMBER: P691949
CATALOG NUMBER: CRTK2-C01HO-D-U-T2-7050-RMARROA5-HSS-CRTK2

Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

REPORT NUMBER: P691949

CATALOG NUMBER: CRTK2-C01HO-D-U-T2-7050-RMARROA5-HSS-CRTK2

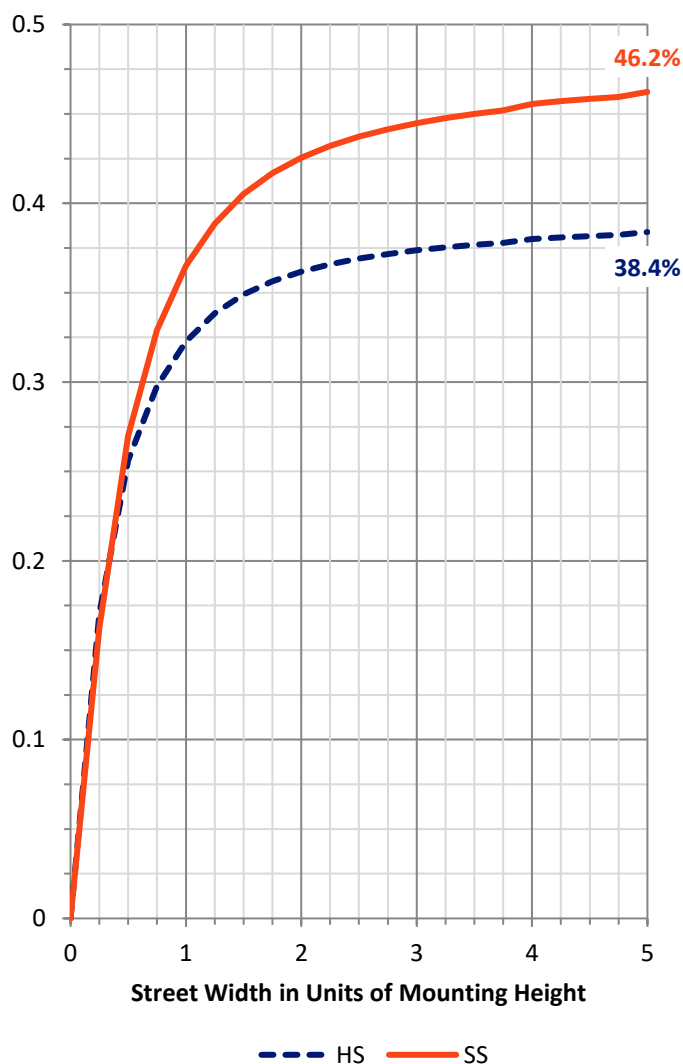
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3425.0	402.1	3827.2
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	4116.3	747.5	4863.9
	% Fixture	47.4	8.6	56.0
Total	Lumens	7541.3	1149.7	8691.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.4	6.8
10°-20°	1254.9	14.4
20°-30°	1365.7	15.7
30°-40°	999.7	11.5
40°-50°	840.5	9.7
50°-60°	853.6	9.8
60°-70°	725.6	8.3
70°-80°	541.4	6.2
80°-90°	368.5	4.2
90°-100°	221.3	2.5
100°-110°	126.9	1.5
110°-120°	116.8	1.3
120°-130°	169.7	2.0
130°-140°	233.4	2.7
140°-150°	193.2	2.2
150°-160°	78.6	0.9
160°-170°	9.8	0.1
170°-180°	0.0	0.0
0°-90°	7541.3	86.8
0°-180°	8691.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691949

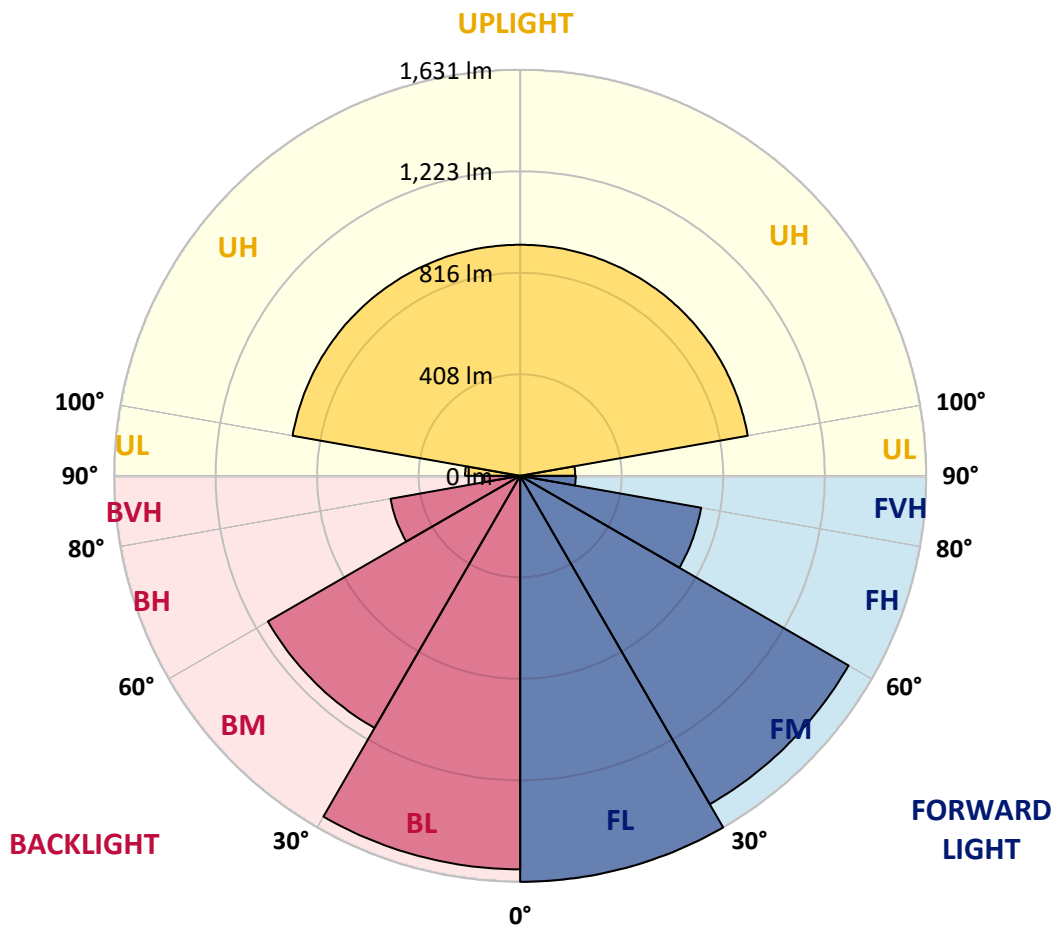
CATALOG NUMBER: CRTK2-C01HO-D-U-T2-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1631.2	18.8			
FM (30°-60°)	1523.7	17.5			
FH (60°-80°)	738.3	8.5			G1/1800
FVH (80°-90°)	223.2	2.6			G2/225
BL (0°-30°)	1580.9	18.2	B3/2500		
BM (30°-60°)	1170.1	13.5	B2/2500		
BH (60°-80°)	528.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	145.3	1.7			G2/225
UL (90°-100°)	221.3	2.5		U3/500	
UH (100°-180°)	928.3	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short





REPORT NUMBER: P691949

CATALOG NUMBER: CRTK2-C01HO-D-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0
2.5°	6161.6	6149.9	6235.1	6254.4	6262.2	6351.2	6471.2	6552.5	6699.5	6842.7	6900.8
5°	4961.8	4938.5	5093.3	5224.9	5383.6	5592.6	5747.4	5933.2	6153.8	6366.7	6467.3
7.5°	4090.9	4121.9	4342.5	4613.4	4868.9	5116.6	5306.2	5464.9	5592.6	5728.1	5755.2
10°	3680.7	3707.8	3924.5	4183.8	4419.9	4671.5	4834.0	4969.5	5050.8	5151.4	5186.2
12.5°	3614.9	3634.2	3781.3	3963.2	4141.2	4369.6	4574.7	4725.7	4818.6	4899.8	4907.6
15°	3680.7	3688.4	3777.4	3897.4	4052.2	4241.9	4478.0	4648.3	4752.8	4787.6	4779.9
17.5°	3789.0	3789.0	3831.6	3932.2	4079.3	4261.2	4485.7	4659.9	4768.2	4783.7	4752.8
20°	3835.5	3843.2	3870.3	3982.6	4114.2	4280.6	4505.1	4652.1	4737.3	4694.7	4640.5
22.5°	3487.2	3471.7	3545.2	3781.3	4075.5	4373.5	4586.3	4752.8	4799.2	4656.0	4539.9
25°	2821.5	2829.2	2875.7	2991.8	3220.1	3494.9	3967.1	4474.1	4826.3	4772.1	4597.9
27.5°	2461.5	2438.3	2449.9	2469.3	2438.3	2380.2	2434.4	2422.8	2415.1	2554.4	2569.9
30°	1807.4	1811.3	1830.7	1865.5	1939.0	2047.4	2163.5	2229.3	2287.4	2395.7	2380.2
32.5°	1795.8	1799.7	1811.3	1842.3	1881.0	1954.5	2028.1	2055.1	2117.1	2206.1	2179.0
35°	1679.7	1668.1	1699.1	1726.2	1737.8	1768.7	1826.8	1865.5	1904.2	1966.1	1950.6
37.5°	1490.1	1493.9	1555.9	1598.4	1610.1	1652.6	1706.8	1737.8	1780.3	1834.5	1807.4
40°	1327.5	1331.4	1404.9	1451.4	1478.5	1536.5	1617.8	1656.5	1726.2	1768.7	1737.8
42.5°	1141.7	1157.2	1207.5	1261.7	1277.2	1312.0	1366.2	1416.5	1505.6	1563.6	1544.3
45°	952.1	959.8	994.7	1048.9	1072.1	1110.8	1161.1	1207.5	1277.2	1323.7	1319.8
47.5°	839.9	847.6	878.6	925.0	971.5	1021.8	1076.0	1122.4	1188.2	1226.9	1211.4
50°	793.4	801.2	839.9	894.0	952.1	1017.9	1083.7	1134.0	1195.9	1219.2	1199.8
52.5°	801.2	801.2	855.3	925.0	1006.3	1095.3	1176.6	1238.5	1288.8	1304.3	1261.7
55°	758.6	770.2	828.2	925.0	1048.9	1188.2	1327.5	1459.1	1532.6	1517.2	1435.9
57.5°	692.8	704.4	747.0	851.5	983.1	1149.5	1346.9	1509.4	1598.4	1610.1	1528.8
60°	654.1	661.8	700.5	781.8	897.9	1033.4	1211.4	1343.0	1443.6	1474.6	1416.5
62.5°	619.3	627.0	658.0	719.9	805.0	909.5	1010.2	1095.3	1176.6	1207.5	1184.3
65°	580.5	584.4	615.4	669.6	739.2	828.2	913.4	975.3	1041.1	1060.5	1033.4
67.5°	541.8	545.7	572.8	623.1	688.9	770.2	836.0	905.7	971.5	986.9	967.6
70°	507.0	510.9	534.1	580.5	638.6	716.0	777.9	824.4	890.2	905.7	882.4
72.5°	472.2	476.0	499.3	541.8	596.0	665.7	719.9	766.3	820.5	824.4	805.0
75°	437.3	441.2	460.6	499.3	545.7	615.4	665.7	704.4	750.8	750.8	727.6
77.5°	398.6	406.4	421.9	456.7	499.3	565.1	611.5	650.2	688.9	685.0	661.8
80°	363.8	367.7	383.2	414.1	452.8	514.8	561.2	592.2	627.0	623.1	603.8
82.5°	325.1	329.0	340.6	371.6	406.4	464.4	510.9	541.8	572.8	565.1	545.7
85°	286.4	290.3	305.8	329.0	363.8	418.0	460.6	491.5	514.8	507.0	491.5
87.5°	255.4	255.4	267.1	290.3	321.2	371.6	410.3	441.2	460.6	456.7	441.2
90°	220.6	224.5	232.2	251.6	278.7	321.2	359.9	387.0	406.4	398.6	383.2
92.5°	193.5	193.5	201.3	220.6	243.8	282.5	317.4	340.6	356.1	352.2	340.6
95°	166.4	170.3	174.2	189.6	209.0	240.0	270.9	294.1	309.6	305.8	298.0
97.5°	147.1	150.9	154.8	162.6	181.9	201.3	228.3	247.7	263.2	259.3	251.6
100°	135.5	135.5	135.5	143.2	154.8	170.3	189.6	205.1	212.9	216.7	209.0
102.5°	123.9	123.9	127.7	127.7	135.5	143.2	154.8	166.4	170.3	170.3	170.3
105°	120.0	120.0	123.9	123.9	127.7	131.6	139.3	143.2	147.1	147.1	143.2
107.5°	120.0	120.0	120.0	120.0	123.9	127.7	131.6	135.5	135.5	135.5	131.6
110°	123.9	123.9	123.9	123.9	123.9	127.7	127.7	131.6	131.6	127.7	127.7



REPORT NUMBER: P691949

CATALOG NUMBER: CRTK2-C01HO-D-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	127.7	127.7	127.7	127.7	127.7	131.6	131.6	131.6	131.6	127.7	127.7
115°	135.5	135.5	135.5	139.3	139.3	139.3	139.3	139.3	139.3	135.5	131.6
117.5°	150.9	150.9	150.9	150.9	154.8	154.8	154.8	154.8	154.8	147.1	147.1
120°	170.3	166.4	170.3	174.2	178.0	178.0	178.0	178.0	178.0	170.3	166.4
122.5°	189.6	189.6	193.5	201.3	209.0	212.9	209.0	209.0	209.0	197.4	193.5
125°	212.9	212.9	224.5	240.0	251.6	255.4	251.6	251.6	251.6	240.0	232.2
127.5°	240.0	240.0	255.4	278.7	298.0	309.6	305.8	305.8	305.8	286.4	274.8
130°	267.1	267.1	290.3	321.2	352.2	359.9	363.8	367.7	367.7	344.5	329.0
132.5°	286.4	290.3	317.4	359.9	398.6	410.3	421.9	425.7	425.7	398.6	375.4
135°	305.8	309.6	344.5	394.8	437.3	464.4	476.0	479.9	483.8	452.8	425.7
137.5°	317.4	321.2	359.9	418.0	460.6	495.4	522.5	530.2	530.2	495.4	460.6
140°	317.4	321.2	363.8	418.0	464.4	507.0	538.0	553.5	553.5	518.6	487.7
142.5°	309.6	317.4	356.1	410.3	456.7	499.3	534.1	549.6	549.6	518.6	487.7
145°	294.1	298.0	336.7	383.2	429.6	479.9	518.6	534.1	534.1	503.1	472.2
147.5°	267.1	270.9	301.9	344.5	390.9	441.2	479.9	499.3	495.4	468.3	441.2
150°	232.2	232.2	259.3	294.1	340.6	387.0	425.7	445.1	445.1	418.0	394.8
152.5°	189.6	189.6	209.0	236.1	274.8	321.2	352.2	371.6	371.6	352.2	332.8
155°	147.1	147.1	162.6	181.9	212.9	247.7	270.9	290.3	290.3	274.8	259.3
157.5°	104.5	104.5	120.0	135.5	158.7	185.8	205.1	216.7	220.6	205.1	197.4
160°	69.7	69.7	77.4	89.0	108.4	127.7	139.3	150.9	154.8	143.2	139.3
162.5°	38.7	38.7	42.6	54.2	65.8	77.4	89.0	96.8	96.8	92.9	89.0
165°	11.6	11.6	15.5	19.4	27.1	34.8	38.7	42.6	46.4	46.4	42.6
167.5°	0.0	0.0	3.9	3.9	3.9	3.9	7.7	7.7	11.6	11.6	11.6
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: P691949

CATALOG NUMBER: CRTK2-C01HO-D-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
0°	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0	7640.0
2.5°	7020.8	7237.5	7473.6	7701.9	7980.6	8270.9	8537.9	8719.8	8816.6	8847.6	8847.6
5°	6544.7	6742.1	6916.3	7133.0	7469.7	7907.1	8390.9	8793.4	9021.7	9048.8	9052.7
7.5°	5801.6	5964.2	6146.1	6339.6	6637.6	7028.5	7667.1	8317.3	8688.9	8758.5	8731.5
10°	5194.0	5294.6	5403.0	5476.5	5685.5	5975.8	6409.3	7047.9	7504.6	7558.7	7597.4
12.5°	4911.4	4926.9	4896.0	4911.4	4981.1	5116.6	5329.4	5697.1	5995.1	6045.4	6072.5
15°	4768.2	4690.8	4567.0	4450.9	4388.9	4400.6	4447.0	4597.9	4648.3	4733.4	4694.7
17.5°	4702.4	4528.3	4334.8	4110.3	3971.0	3827.8	3750.3	3723.3	3703.9	3707.8	3742.6
20°	4536.0	4338.6	4029.0	3734.9	3510.4	3313.0	3146.6	3026.6	2960.8	2929.8	2953.1
22.5°	4361.9	4056.1	3692.3	3374.9	3053.7	2802.1	2612.5	2438.3	2341.5	2368.6	2337.7
25°	4365.7	3909.0	3475.6	3057.6	2755.7	2422.8	2120.9	1939.0	1780.3	1811.3	1853.9
27.5°	2751.8	2631.8	2322.2	2078.4	1776.5	1610.1	1459.1	1331.4	1242.4	1246.2	1234.6
30°	2333.8	2210.0	2055.1	1861.6	1633.3	1439.8	1265.6	1118.5	1033.4	1010.2	1006.3
32.5°	2155.8	2051.3	1908.1	1718.4	1509.4	1315.9	1141.7	1006.3	921.1	917.3	917.3
35°	1919.7	1822.9	1702.9	1540.4	1362.4	1184.3	1021.8	905.7	836.0	836.0	832.1
37.5°	1772.6	1687.5	1571.4	1420.4	1261.7	1083.7	940.5	836.0	762.5	758.6	762.5
40°	1695.2	1606.2	1493.9	1350.7	1192.1	1021.8	886.3	777.9	723.8	719.9	716.0
42.5°	1540.4	1470.7	1374.0	1242.4	1103.0	952.1	824.4	727.6	681.2	677.3	681.2
45°	1308.2	1257.9	1192.1	1095.3	979.2	851.5	739.2	665.7	619.3	619.3	619.3
47.5°	1199.8	1153.4	1079.8	983.1	882.4	762.5	669.6	607.6	565.1	565.1	565.1
50°	1172.7	1114.7	1017.9	909.5	801.2	696.7	611.5	549.6	518.6	514.8	518.6
52.5°	1211.4	1122.4	990.8	863.1	743.1	642.5	561.2	503.1	472.2	472.2	472.2
55°	1350.7	1188.2	1014.0	851.5	708.3	596.0	514.8	456.7	425.7	421.9	425.7
57.5°	1443.6	1238.5	1021.8	839.9	685.0	565.1	476.0	414.1	383.2	379.3	383.2
60°	1362.4	1195.9	986.9	808.9	665.7	541.8	449.0	387.0	356.1	352.2	352.2
62.5°	1130.1	1033.4	882.4	731.5	615.4	507.0	421.9	363.8	332.8	329.0	332.8
65°	1002.4	917.3	785.7	665.7	565.1	472.2	398.6	348.3	317.4	317.4	317.4
67.5°	932.7	855.3	731.5	615.4	522.5	437.3	367.7	321.2	294.1	294.1	294.1
70°	851.5	774.1	661.8	557.3	472.2	398.6	336.7	290.3	267.1	263.2	267.1
72.5°	781.8	704.4	599.9	503.1	425.7	359.9	305.8	263.2	243.8	240.0	243.8
75°	704.4	630.9	530.2	445.1	379.3	321.2	274.8	236.1	220.6	216.7	216.7
77.5°	638.6	568.9	476.0	398.6	340.6	286.4	243.8	216.7	201.3	197.4	197.4
80°	580.5	514.8	425.7	356.1	301.9	255.4	220.6	193.5	178.0	178.0	178.0
82.5°	518.6	460.6	379.3	313.5	267.1	228.3	193.5	170.3	158.7	158.7	158.7
85°	468.3	410.3	332.8	278.7	232.2	197.4	170.3	150.9	139.3	139.3	139.3
87.5°	414.1	363.8	294.1	243.8	205.1	174.2	147.1	127.7	123.9	120.0	120.0
90°	359.9	313.5	251.6	209.0	174.2	147.1	123.9	108.4	104.5	100.6	100.6
92.5°	321.2	278.7	228.3	189.6	158.7	131.6	116.1	100.6	96.8	96.8	92.9
95°	278.7	243.8	201.3	170.3	143.2	123.9	108.4	96.8	92.9	92.9	89.0
97.5°	240.0	209.0	178.0	154.8	131.6	116.1	100.6	92.9	85.1	85.1	85.1
100°	201.3	178.0	154.8	131.6	120.0	104.5	92.9	85.1	81.3	77.4	77.4
102.5°	162.6	147.1	127.7	116.1	100.6	89.0	81.3	73.5	69.7	69.7	69.7
105°	139.3	127.7	116.1	104.5	92.9	81.3	73.5	65.8	61.9	61.9	61.9
107.5°	127.7	120.0	108.4	96.8	89.0	77.4	69.7	58.1	54.2	58.1	58.1
110°	123.9	116.1	104.5	96.8	85.1	77.4	69.7	54.2	50.3	54.2	54.2



REPORT NUMBER: P691949
 CATALOG NUMBER: CRTK2-C01HO-D-U-T2-7050-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	123.9	116.1	108.4	96.8	89.0	77.4	69.7	54.2	50.3	50.3	50.3
115°	127.7	123.9	112.2	104.5	92.9	81.3	69.7	54.2	50.3	50.3	50.3
117.5°	143.2	135.5	123.9	112.2	100.6	85.1	73.5	54.2	50.3	50.3	50.3
120°	158.7	150.9	139.3	123.9	108.4	92.9	77.4	54.2	46.4	50.3	50.3
122.5°	185.8	174.2	158.7	139.3	120.0	100.6	77.4	58.1	42.6	50.3	50.3
125°	220.6	205.1	181.9	154.8	131.6	108.4	81.3	58.1	46.4	50.3	50.3
127.5°	259.3	240.0	209.0	174.2	143.2	112.2	85.1	58.1	46.4	46.4	50.3
130°	309.6	278.7	236.1	193.5	154.8	120.0	85.1	58.1	46.4	46.4	46.4
132.5°	352.2	313.5	259.3	209.0	162.6	123.9	85.1	58.1	42.6	42.6	42.6
135°	394.8	344.5	278.7	220.6	170.3	123.9	85.1	54.2	42.6	42.6	42.6
137.5°	429.6	363.8	294.1	224.5	170.3	120.0	81.3	50.3	38.7	38.7	38.7
140°	449.0	375.4	298.0	224.5	162.6	116.1	73.5	46.4	34.8	34.8	34.8
142.5°	449.0	371.6	294.1	216.7	154.8	108.4	65.8	38.7	31.0	31.0	31.0
145°	433.5	356.1	278.7	205.1	143.2	96.8	58.1	34.8	23.2	23.2	27.1
147.5°	406.4	329.0	255.4	185.8	127.7	81.3	50.3	27.1	19.4	19.4	19.4
150°	359.9	290.3	220.6	162.6	108.4	69.7	42.6	23.2	15.5	15.5	15.5
152.5°	301.9	240.0	185.8	135.5	89.0	54.2	31.0	19.4	11.6	11.6	11.6
155°	240.0	189.6	147.1	104.5	65.8	42.6	23.2	15.5	11.6	11.6	11.6
157.5°	178.0	143.2	108.4	77.4	50.3	31.0	19.4	11.6	7.7	7.7	7.7
160°	123.9	100.6	73.5	50.3	31.0	19.4	11.6	7.7	3.9	3.9	3.9
162.5°	81.3	61.9	46.4	31.0	19.4	11.6	7.7	3.9	3.9	3.9	3.9
165°	38.7	31.0	23.2	15.5	7.7	7.7	3.9	3.9	0.0	0.0	0.0
167.5°	11.6	7.7	3.9	3.9	3.9	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)