

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: P691965

Luminaire Tested: **CRTK2-C01HO-D-U-T3-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691965
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-C01HO-D-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: 8548 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G3

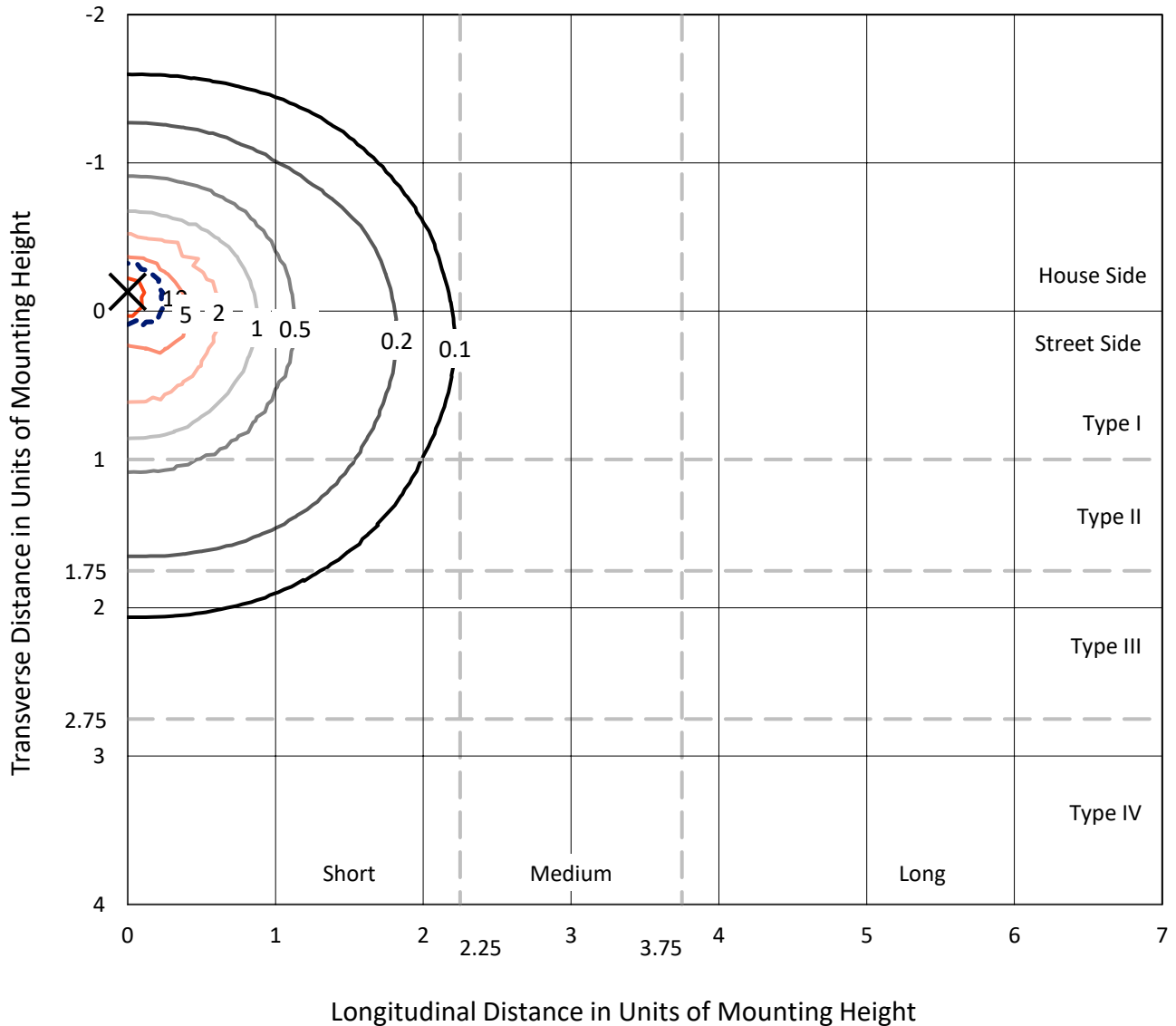
Input Watts (W): 79
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

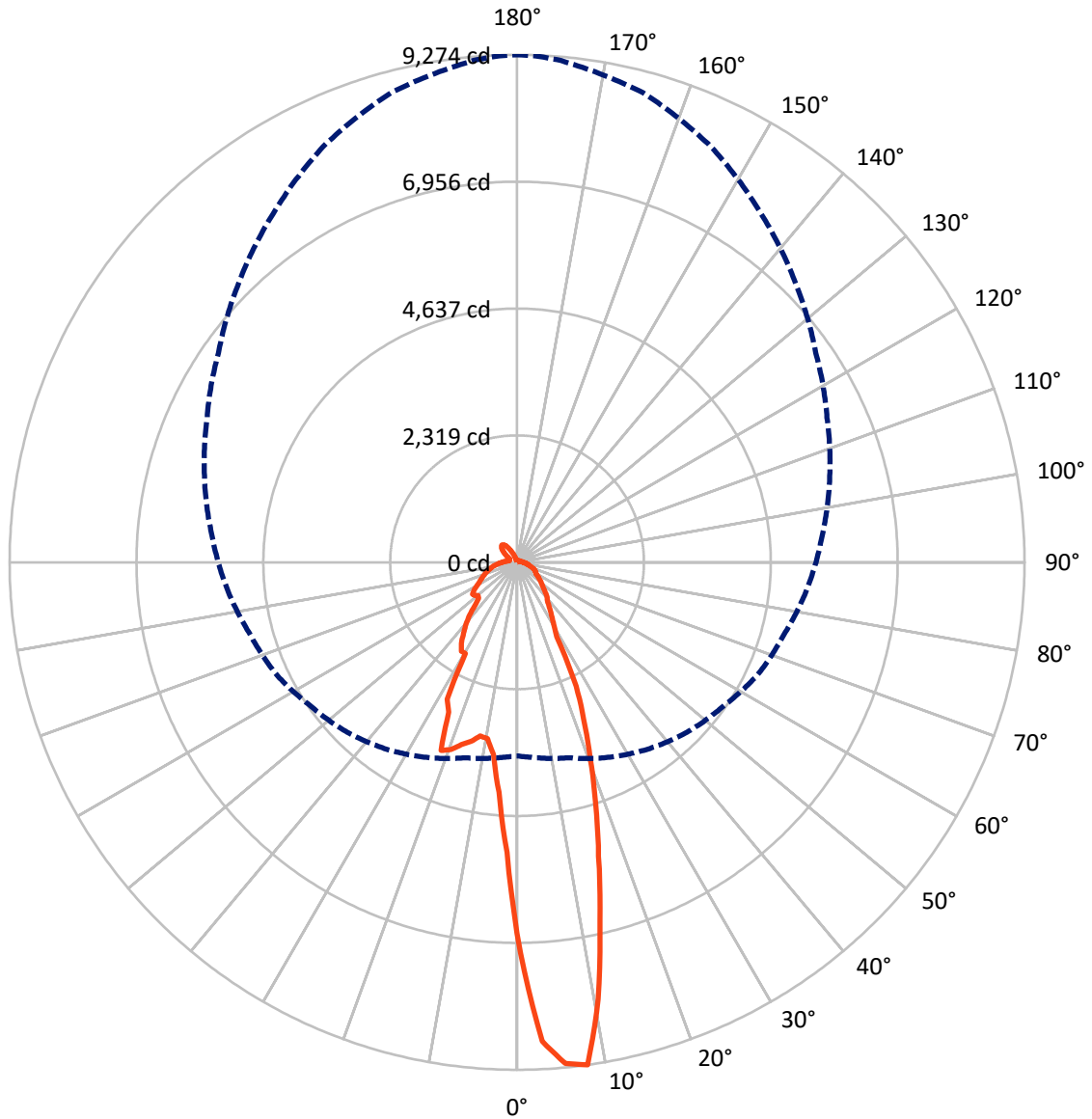
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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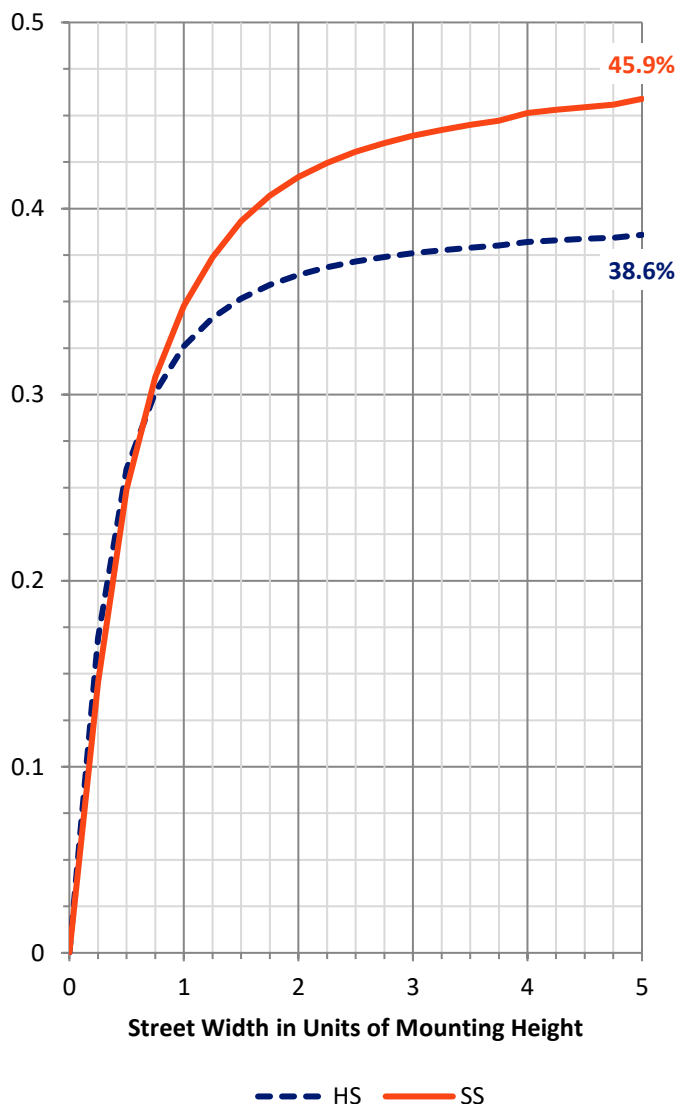
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3384.3	352.9	3737.2
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	4035.7	775.1	4810.8
	% Fixture	47.2	9.1	56.3
Total	Lumens	7420.0	1128.0	8548.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.7	6.7
10°-20°	1225.2	14.3
20°-30°	1352.9	15.8
30°-40°	981.2	11.5
40°-50°	826.7	9.7
50°-60°	843.9	9.9
60°-70°	719.3	8.4
70°-80°	536.2	6.3
80°-90°	361.9	4.2
90°-100°	216.3	2.5
100°-110°	124.4	1.5
110°-120°	116.3	1.4
120°-130°	169.4	2.0
130°-140°	230.2	2.7
140°-150°	187.4	2.2
150°-160°	74.7	0.9
160°-170°	9.1	0.1
170°-180°	0.0	0.0
0°-90°	7420.0	86.8
0°-180°	8548.0	100.0

Coefficient of Utilization



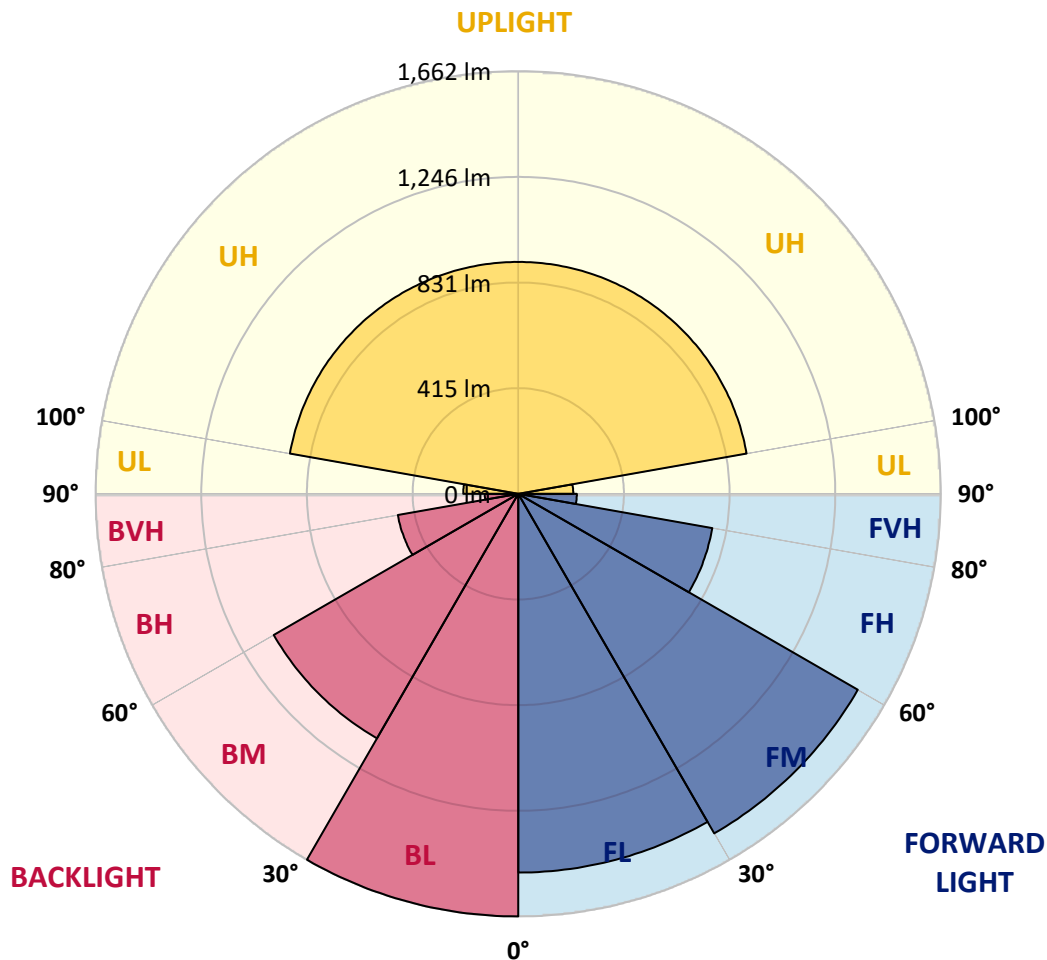
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.1	17.4			
FM (30°-60°)	1541.6	18.0			
FH (60°-80°)	774.8	9.1			G1/1800
FVH (80°-90°)	230.2	2.7			G3/500
BL (0°-30°)	1661.7	19.4	B3/2500		
BM (30°-60°)	1110.3	13.0	B2/2500		
BH (60°-80°)	480.6	5.6	B1/500		G1/500
BVH (80°-90°)	131.7	1.5			G2/225
UL (90°-100°)	216.3	2.5		U3/500	
UH (100°-180°)	911.6	10.7		U4/1000	

BUG Rating: B3-U4-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8
2.5°	5304.9	5428.0	5439.2	5573.5	5674.2	5767.5	5834.6	6028.6	6226.3	6412.8	6521.0
5°	4211.8	4271.5	4379.7	4525.2	4711.7	4857.2	5066.1	5338.4	5599.6	5927.9	6088.3
7.5°	3536.6	3581.3	3697.0	3932.0	4167.0	4390.9	4592.3	4853.5	5054.9	5327.3	5461.6
10°	3268.0	3294.1	3391.1	3555.2	3779.1	3965.6	4140.9	4338.7	4517.7	4767.7	4864.7
12.5°	3241.9	3253.1	3331.4	3447.0	3577.6	3730.6	3876.1	4043.9	4234.2	4431.9	4506.5
15°	3383.6	3376.2	3402.3	3469.4	3544.0	3663.4	3797.7	3950.7	4133.5	4279.0	4338.7
17.5°	3484.4	3480.6	3529.1	3559.0	3629.8	3700.7	3835.0	3954.4	4133.5	4249.1	4282.7
20°	3629.8	3637.3	3652.2	3708.2	3738.0	3786.5	3868.6	3939.5	4092.4	4159.6	4152.1
22.5°	3708.2	3704.5	3767.9	3898.4	3932.0	3958.1	3973.1	4002.9	4088.7	4085.0	4029.0
25°	3006.8	3014.3	3029.2	3141.1	3282.9	3514.2	3704.5	4002.9	4163.3	4103.6	3984.2
27.5°	2809.1	2786.7	2708.4	2645.0	2454.7	2327.9	2208.5	2156.3	2182.4	2227.2	2350.3
30°	1913.8	1917.5	1925.0	1936.2	1954.8	2003.3	2036.9	2040.6	2066.7	2141.3	2115.2
32.5°	1917.5	1921.2	1910.1	1921.2	1913.8	1932.4	1928.7	1913.8	1936.2	2003.3	1977.2
35°	1801.9	1794.4	1801.9	1805.6	1764.6	1749.6	1745.9	1734.7	1749.6	1783.2	1760.8
37.5°	1622.8	1619.1	1652.6	1671.3	1637.7	1637.7	1630.3	1615.3	1626.5	1656.4	1626.5
40°	1466.1	1469.8	1518.3	1548.2	1537.0	1548.2	1559.4	1555.6	1581.8	1593.0	1555.6
42.5°	1294.5	1287.0	1335.5	1357.9	1335.5	1343.0	1339.3	1343.0	1395.2	1417.6	1391.5
45°	1081.9	1093.1	1115.4	1145.3	1141.6	1152.7	1149.0	1156.5	1190.1	1201.2	1182.6
47.5°	962.5	969.9	996.1	1029.6	1048.3	1066.9	1066.9	1070.7	1093.1	1096.8	1078.1
50°	936.4	943.8	977.4	1014.7	1044.6	1066.9	1078.1	1074.4	1085.6	1078.1	1052.0
52.5°	981.1	981.1	1033.4	1078.1	1115.4	1156.5	1171.4	1156.5	1156.5	1126.6	1085.6
55°	999.8	1003.5	1066.9	1145.3	1216.2	1290.8	1339.3	1335.5	1331.8	1283.3	1208.7
57.5°	940.1	951.3	1014.7	1104.2	1201.2	1320.6	1391.5	1402.7	1402.7	1339.3	1257.2
60°	854.3	861.8	910.3	984.9	1081.9	1171.4	1246.0	1253.5	1275.9	1242.3	1167.7
62.5°	783.4	790.9	831.9	887.9	958.8	1014.7	1037.1	1037.1	1048.3	1037.1	984.9
65°	731.2	734.9	768.5	817.0	865.5	910.3	932.6	925.2	940.1	925.2	884.1
67.5°	682.7	682.7	712.5	749.8	794.6	846.8	861.8	869.2	884.1	865.5	828.2
70°	634.2	637.9	667.8	697.6	738.7	776.0	790.9	794.6	813.3	790.9	764.8
72.5°	593.2	593.2	619.3	649.1	679.0	716.3	727.5	734.9	746.1	723.7	701.3
75°	544.7	548.4	570.8	596.9	623.0	660.3	671.5	675.2	686.4	660.3	637.9
77.5°	499.9	503.6	522.3	544.7	570.8	600.6	611.8	619.3	623.0	600.6	578.2
80°	455.1	458.9	473.8	496.2	518.5	548.4	555.9	559.6	567.0	540.9	526.0
82.5°	414.1	414.1	425.3	443.9	466.3	492.4	503.6	507.4	511.1	488.7	473.8
85°	365.6	365.6	376.8	395.4	414.1	440.2	451.4	455.1	455.1	436.5	421.6
87.5°	324.6	324.6	332.0	346.9	361.9	388.0	399.2	406.6	402.9	388.0	373.1
90°	283.5	283.5	291.0	302.2	317.1	339.5	350.7	354.4	354.4	335.8	324.6
92.5°	246.2	246.2	253.7	264.9	276.1	294.7	305.9	313.4	313.4	298.4	287.3
95°	212.6	212.6	216.4	227.6	238.8	253.7	261.1	268.6	268.6	261.1	249.9
97.5°	182.8	182.8	186.5	194.0	201.5	212.6	220.1	227.6	227.6	223.8	216.4
100°	160.4	160.4	160.4	164.1	171.6	175.3	182.8	190.3	190.3	186.5	182.8
102.5°	145.5	145.5	145.5	145.5	145.5	149.2	149.2	153.0	153.0	153.0	149.2
105°	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0	134.3	130.6	126.8
107.5°	138.0	134.3	134.3	134.3	134.3	130.6	130.6	130.6	126.8	123.1	119.4
110°	138.0	138.0	138.0	138.0	134.3	130.6	130.6	126.8	123.1	119.4	115.6



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CATALOG NUMBER: CRTK2-C01HO-D-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	145.5	145.5	145.5	141.8	138.0	138.0	134.3	130.6	126.8	119.4	115.6
115°	156.7	156.7	156.7	156.7	153.0	145.5	141.8	138.0	130.6	126.8	123.1
117.5°	175.3	175.3	175.3	175.3	167.9	164.1	156.7	153.0	145.5	138.0	134.3
120°	197.7	197.7	201.5	201.5	197.7	190.3	179.1	175.3	167.9	156.7	149.2
122.5°	231.3	227.6	235.0	235.0	235.0	227.6	212.6	205.2	197.7	182.8	175.3
125°	264.9	264.9	272.3	279.8	283.5	272.3	257.4	246.2	235.0	216.4	205.2
127.5°	302.2	302.2	317.1	332.0	339.5	328.3	309.6	298.4	283.5	257.4	242.5
130°	339.5	339.5	361.9	384.2	395.4	388.0	369.3	354.4	335.8	302.2	283.5
132.5°	373.1	373.1	399.2	429.0	443.9	440.2	421.6	406.6	391.7	350.7	324.6
135°	399.2	402.9	436.5	470.1	488.7	492.4	473.8	455.1	436.5	391.7	361.9
137.5°	414.1	421.6	455.1	496.2	514.8	526.0	514.8	496.2	473.8	425.3	391.7
140°	417.8	421.6	458.9	499.9	518.5	533.5	533.5	511.1	492.4	443.9	406.6
142.5°	406.6	410.4	447.7	485.0	503.6	522.3	526.0	507.4	488.7	443.9	406.6
145°	380.5	388.0	421.6	451.4	477.5	496.2	503.6	492.4	470.1	429.0	395.4
147.5°	346.9	350.7	380.5	406.6	432.7	455.1	466.3	455.1	436.5	399.2	369.3
150°	294.7	298.4	320.8	343.2	373.1	395.4	410.4	402.9	388.0	358.1	328.3
152.5°	238.8	238.8	257.4	276.1	302.2	324.6	339.5	335.8	324.6	298.4	276.1
155°	182.8	182.8	194.0	208.9	231.3	246.2	261.1	261.1	253.7	235.0	216.4
157.5°	130.6	130.6	141.8	153.0	167.9	182.8	194.0	194.0	190.3	175.3	164.1
160°	85.8	85.8	93.3	100.7	115.6	123.1	134.3	134.3	130.6	123.1	115.6
162.5°	44.8	44.8	52.2	56.0	67.2	74.6	82.1	85.8	85.8	78.3	74.6
165°	14.9	14.9	14.9	18.7	26.1	33.6	37.3	41.0	41.0	37.3	37.3
167.5°	3.7	3.7	3.7	3.7	3.7	3.7	7.5	11.2	11.2	11.2	11.2
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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8	7147.8
2.5°	6636.7	6976.2	7267.1	7573.1	7912.5	8199.8	8490.8	8651.2	8789.2	8763.1	8763.1
5°	6245.0	6584.5	6938.9	7311.9	7770.8	8240.8	8688.5	9009.3	9177.2	9203.3	9199.6
7.5°	5595.9	5913.0	6248.7	6662.8	7200.0	7774.5	8382.6	8886.2	9203.3	9263.0	9274.2
10°	4954.2	5193.0	5476.5	5760.0	6241.2	6767.3	7311.9	7714.8	8024.5	8069.2	8121.4
12.5°	4569.9	4700.5	4883.3	5081.0	5394.4	5778.7	6226.3	6457.6	6655.3	6677.7	6726.2
15°	4372.2	4435.6	4480.4	4551.3	4737.8	4976.6	5181.8	5409.3	5491.4	5547.4	5573.5
17.5°	4293.9	4286.4	4241.7	4241.7	4256.6	4346.1	4476.7	4555.0	4607.3	4633.4	4640.8
20°	4133.5	4066.3	3976.8	3857.4	3794.0	3764.1	3797.7	3816.4	3801.5	3782.8	3816.4
22.5°	3965.6	3823.8	3663.4	3525.4	3361.2	3260.5	3163.5	3129.9	3088.9	3115.0	3115.0
25°	3913.4	3663.4	3406.0	3174.7	2928.5	2760.6	2581.6	2518.1	2454.7	2506.9	2506.9
27.5°	2313.0	2313.0	2167.5	1973.5	1760.8	1671.3	1600.4	1559.4	1533.3	1544.5	1544.5
30°	2070.5	1973.5	1883.9	1760.8	1596.7	1488.5	1395.2	1339.3	1313.2	1305.7	1313.2
32.5°	1921.2	1846.6	1738.4	1615.3	1469.8	1350.5	1246.0	1190.1	1149.0	1156.5	1160.2
35°	1719.8	1641.5	1548.2	1432.5	1309.4	1197.5	1104.2	1048.3	1011.0	1011.0	1014.7
37.5°	1593.0	1514.6	1425.1	1320.6	1201.2	1093.1	1007.3	940.1	906.5	902.8	902.8
40°	1514.6	1436.3	1354.2	1249.7	1137.8	1025.9	940.1	880.4	839.4	839.4	843.1
42.5°	1372.8	1298.2	1227.4	1134.1	1033.4	936.4	854.3	802.1	761.0	753.6	761.0
45°	1156.5	1115.4	1059.5	996.1	910.3	831.9	757.3	712.5	679.0	679.0	675.2
47.5°	1059.5	1018.4	958.8	895.3	824.5	746.1	686.4	645.4	615.5	615.5	615.5
50°	1022.2	977.4	902.8	831.9	749.8	682.7	630.5	589.4	567.0	567.0	563.3
52.5°	1040.8	969.9	873.0	772.2	693.9	626.7	574.5	533.5	514.8	514.8	511.1
55°	1141.6	1014.7	873.0	749.8	656.6	582.0	529.7	485.0	466.3	466.3	466.3
57.5°	1182.6	1040.8	865.5	727.5	623.0	544.7	481.2	440.2	421.6	421.6	417.8
60°	1108.0	988.6	828.2	697.6	596.9	518.5	458.9	417.8	395.4	395.4	391.7
62.5°	943.8	858.0	734.9	637.9	559.6	488.7	436.5	395.4	376.8	376.8	376.8
65°	846.8	772.2	675.2	589.4	518.5	458.9	410.4	376.8	358.1	358.1	358.1
67.5°	790.9	727.5	630.5	548.4	477.5	421.6	376.8	346.9	332.0	328.3	332.0
70°	731.2	664.0	574.5	496.2	432.7	380.5	339.5	309.6	294.7	294.7	294.7
72.5°	667.8	604.4	518.5	447.7	384.2	343.2	302.2	276.1	261.1	261.1	257.4
75°	608.1	544.7	462.6	395.4	343.2	302.2	268.6	246.2	231.3	231.3	231.3
77.5°	552.1	492.4	414.1	354.4	305.9	272.3	238.8	220.1	208.9	208.9	205.2
80°	499.9	443.9	369.3	317.1	272.3	242.5	212.6	197.7	186.5	186.5	186.5
82.5°	447.7	395.4	328.3	279.8	242.5	212.6	190.3	175.3	167.9	164.1	167.9
85°	399.2	350.7	291.0	246.2	212.6	186.5	167.9	153.0	145.5	145.5	145.5
87.5°	354.4	309.6	257.4	216.4	186.5	164.1	145.5	134.3	130.6	126.8	126.8
90°	305.9	264.9	220.1	186.5	160.4	141.8	123.1	115.6	108.2	108.2	108.2
92.5°	272.3	238.8	197.7	167.9	145.5	130.6	115.6	108.2	100.7	100.7	100.7
95°	238.8	208.9	175.3	153.0	134.3	119.4	108.2	100.7	97.0	97.0	97.0
97.5°	205.2	182.8	156.7	138.0	123.1	111.9	100.7	93.3	89.5	89.5	89.5
100°	171.6	156.7	138.0	123.1	111.9	100.7	89.5	85.8	82.1	82.1	82.1
102.5°	141.8	130.6	115.6	104.5	93.3	85.8	78.3	74.6	70.9	70.9	70.9
105°	123.1	115.6	104.5	93.3	85.8	78.3	70.9	63.4	63.4	63.4	63.4
107.5°	115.6	104.5	97.0	89.5	82.1	70.9	67.2	59.7	56.0	56.0	56.0
110°	111.9	104.5	97.0	85.8	78.3	70.9	63.4	56.0	52.2	52.2	52.2



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	111.9	104.5	97.0	89.5	82.1	70.9	67.2	52.2	48.5	48.5	48.5
115°	119.4	111.9	100.7	93.3	82.1	74.6	67.2	52.2	48.5	48.5	48.5
117.5°	126.8	119.4	108.2	100.7	89.5	78.3	67.2	52.2	48.5	48.5	48.5
120°	145.5	134.3	119.4	108.2	97.0	82.1	70.9	52.2	44.8	48.5	48.5
122.5°	164.1	153.0	134.3	119.4	104.5	89.5	70.9	52.2	44.8	48.5	48.5
125°	194.0	175.3	153.0	134.3	111.9	93.3	74.6	52.2	41.0	44.8	48.5
127.5°	227.6	205.2	175.3	149.2	123.1	97.0	74.6	52.2	41.0	44.8	44.8
130°	264.9	235.0	197.7	160.4	130.6	100.7	74.6	52.2	41.0	44.8	44.8
132.5°	302.2	261.1	216.4	175.3	138.0	104.5	74.6	48.5	41.0	41.0	41.0
135°	332.0	283.5	231.3	182.8	141.8	104.5	70.9	48.5	37.3	37.3	37.3
137.5°	358.1	302.2	242.5	186.5	141.8	100.7	67.2	44.8	33.6	33.6	33.6
140°	373.1	309.6	246.2	182.8	134.3	97.0	63.4	41.0	29.8	29.8	29.8
142.5°	373.1	305.9	238.8	179.1	126.8	89.5	56.0	33.6	26.1	26.1	26.1
145°	358.1	291.0	227.6	167.9	115.6	78.3	48.5	29.8	22.4	22.4	22.4
147.5°	335.8	268.6	208.9	153.0	104.5	67.2	41.0	26.1	18.7	18.7	18.7
150°	298.4	238.8	182.8	130.6	89.5	56.0	33.6	22.4	14.9	14.9	14.9
152.5°	249.9	197.7	153.0	108.2	74.6	44.8	29.8	14.9	11.2	11.2	11.2
155°	197.7	156.7	119.4	85.8	56.0	33.6	22.4	14.9	7.5	7.5	7.5
157.5°	149.2	115.6	89.5	63.4	41.0	26.1	14.9	11.2	7.5	7.5	7.5
160°	104.5	82.1	59.7	41.0	26.1	18.7	11.2	7.5	3.7	3.7	3.7
162.5°	67.2	52.2	37.3	26.1	14.9	11.2	7.5	3.7	3.7	3.7	0.0
165°	33.6	26.1	18.7	11.2	7.5	3.7	3.7	3.7	0.0	0.0	0.0
167.5°	7.5	7.5	7.5	3.7	3.7	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)