

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: P691858

Luminaire Tested: **CRTK2-C01H-D-U-T2-7050-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C01H-D-U-T2-7050-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8150 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

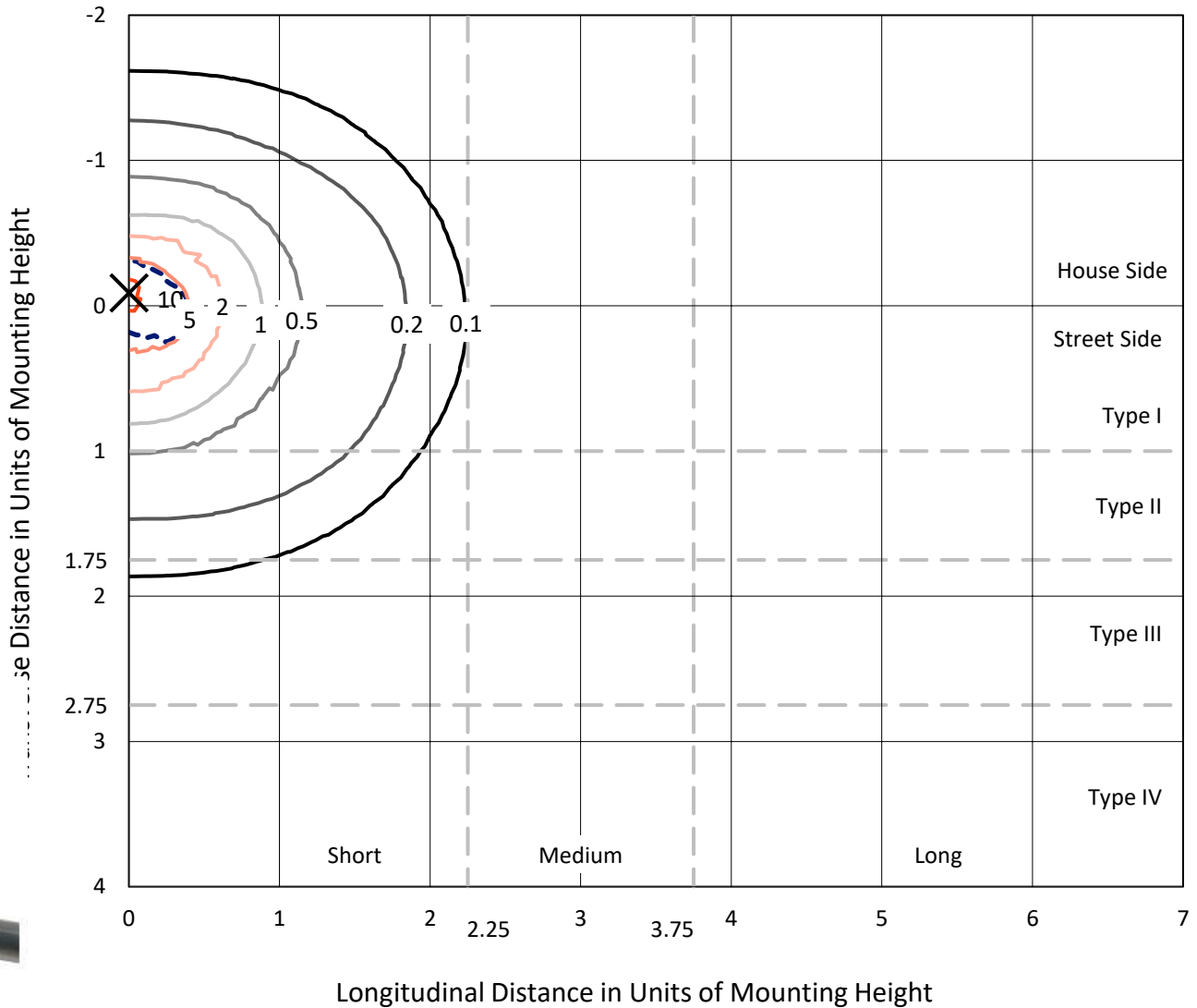
Input Watts (W): 70.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

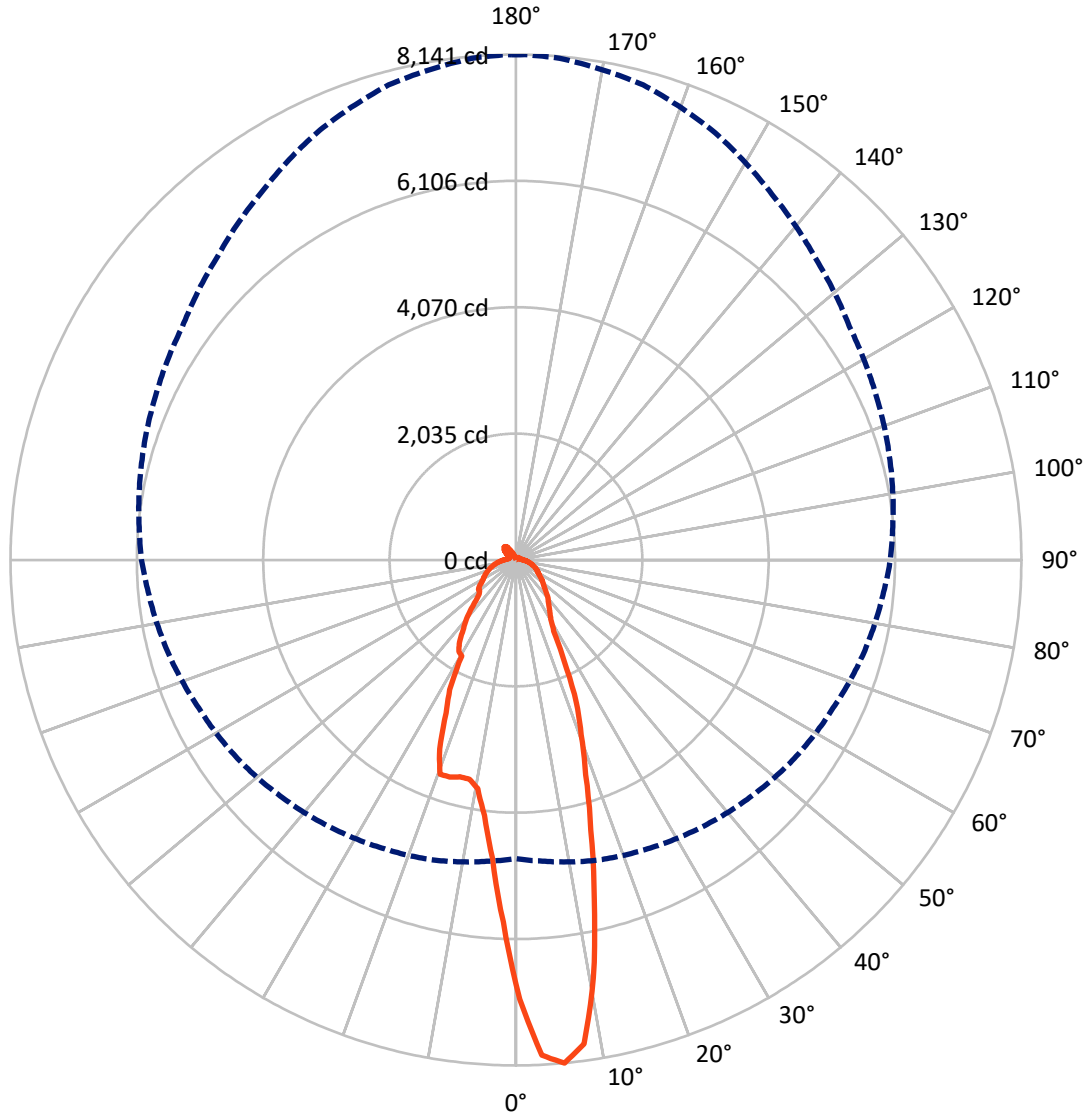
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 179-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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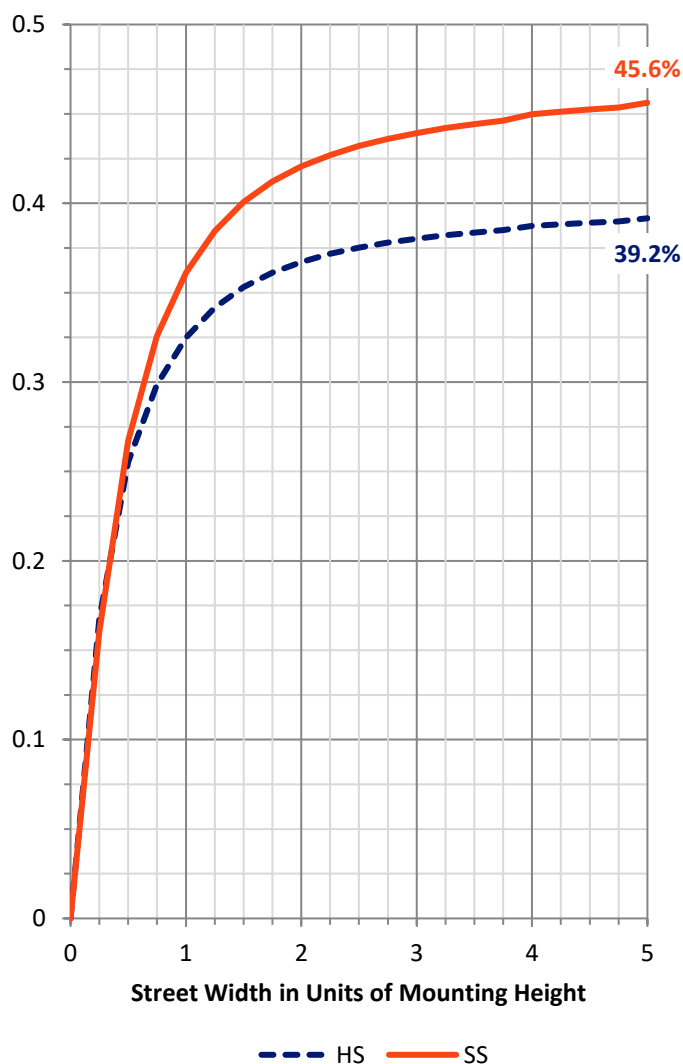
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3279.7	398.8	3678.4
	% Fixture	40.2	4.9	45.1
Street Side	Lumens	3806.7	664.9	4471.6
	% Fixture	46.7	8.2	54.9
Total	Lumens	7086.3	1063.7	8150.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.9	6.8
10°-20°	1179.6	14.5
20°-30°	1281.5	15.7
30°-40°	948.5	11.6
40°-50°	794.4	9.7
50°-60°	798.6	9.8
60°-70°	679.9	8.3
70°-80°	507.9	6.2
80°-90°	342.9	4.2
90°-100°	204.9	2.5
100°-110°	118.4	1.5
110°-120°	109.0	1.3
120°-130°	157.6	1.9
130°-140°	215.7	2.6
140°-150°	177.7	2.2
150°-160°	71.6	0.9
160°-170°	8.8	0.1
170°-180°	0.0	0.0
0°-90°	7086.3	86.9
0°-180°	8150.0	100.0

Coefficient of Utilization



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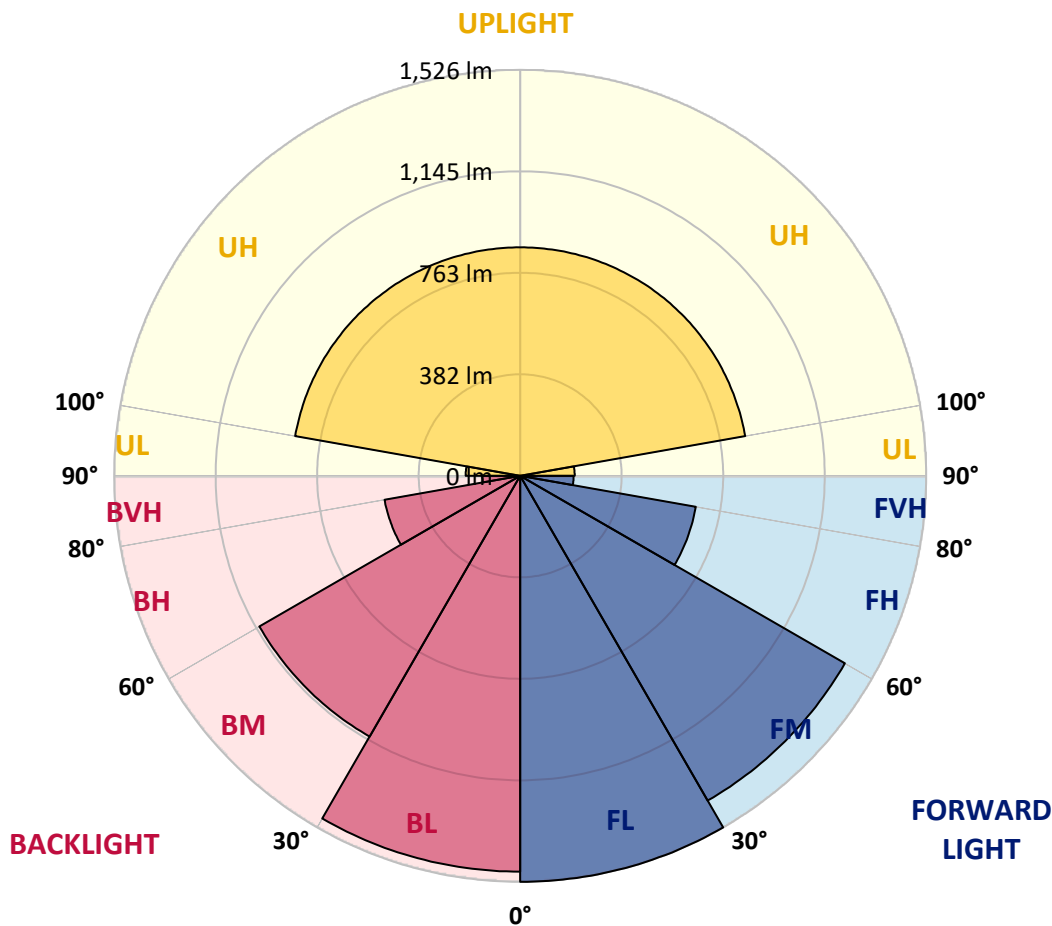
CATALOG NUMBER: CRTK2-C01H-D-U-T2-7050-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1526.1	18.7			
FM (30°-60°)	1409.4	17.3			
FH (60°-80°)	670.3	8.2			G1/1800
FVH (80°-90°)	200.8	2.5			G2/225
BL (0°-30°)	1487.9	18.3	B3/2500		
BM (30°-60°)	1132.1	13.9	B2/2500		
BH (60°-80°)	517.5	6.3	B2/1000		G2/1000
BVH (80°-90°)	142.1	1.7			G2/225
UL (90°-100°)	204.9	2.5		U3/500	
UH (100°-180°)	858.8	10.5		U4/1000	

BUG Rating: B3-U4-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2
2.5°	5830.3	5863.0	5934.9	5970.8	6006.8	6052.5	6121.2	6173.5	6294.4	6405.5	6451.2
5°	4810.7	4869.5	5006.7	5117.9	5242.0	5372.8	5513.3	5637.5	5797.6	5944.7	6029.7
7.5°	4134.2	4183.2	4346.6	4562.3	4781.2	4964.3	5108.1	5202.8	5274.7	5333.6	5395.6
10°	3722.4	3764.9	3928.3	4121.1	4307.4	4477.3	4598.2	4689.7	4715.9	4774.7	4804.1
12.5°	3604.7	3624.3	3738.7	3872.7	3987.1	4153.8	4297.6	4395.6	4438.1	4490.4	4506.7
15°	3608.0	3608.0	3673.4	3758.3	3862.9	3990.4	4150.5	4268.2	4330.2	4359.7	4356.4
17.5°	3657.0	3653.7	3683.2	3751.8	3840.0	3967.5	4130.9	4251.8	4323.7	4333.5	4323.7
20°	3657.0	3660.3	3670.1	3748.5	3833.5	3947.9	4114.5	4215.9	4271.4	4242.0	4209.3
22.5°	3284.4	3281.2	3366.2	3532.8	3761.6	4000.2	4150.5	4274.7	4287.8	4179.9	4091.7
25°	2712.5	2689.7	2738.7	2813.8	2967.4	3245.2	3559.0	4029.6	4310.6	4248.5	4114.5
27.5°	2353.0	2323.6	2366.1	2333.4	2317.1	2297.5	2277.9	2222.3	2258.3	2290.9	2434.7
30°	1774.6	1781.1	1790.9	1810.5	1849.7	1928.2	2009.9	2058.9	2101.4	2186.4	2176.6
32.5°	1735.4	1732.1	1735.4	1755.0	1774.6	1823.6	1872.6	1898.8	1931.5	2013.2	1993.5
35°	1604.6	1598.1	1621.0	1630.8	1627.5	1640.6	1689.6	1719.0	1748.4	1800.7	1781.1
37.5°	1411.8	1418.4	1467.4	1493.5	1503.3	1532.7	1572.0	1598.1	1634.1	1673.3	1663.5
40°	1268.0	1264.8	1317.0	1353.0	1375.9	1421.6	1480.5	1519.7	1578.5	1611.2	1588.3
42.5°	1091.5	1104.6	1143.8	1179.8	1186.3	1209.2	1261.5	1307.2	1379.1	1428.2	1415.1
45°	918.3	928.1	960.8	990.2	1013.1	1042.5	1081.7	1121.0	1179.8	1219.0	1215.7
47.5°	810.5	820.3	846.4	882.4	915.1	957.6	996.8	1036.0	1091.5	1121.0	1111.2
50°	768.0	774.5	804.0	843.2	892.2	944.5	996.8	1039.3	1091.5	1111.2	1094.8
52.5°	764.7	764.7	800.7	859.5	928.1	1000.0	1068.7	1127.5	1176.5	1176.5	1143.8
55°	719.0	725.5	771.3	849.7	954.3	1071.9	1192.9	1304.0	1369.3	1356.3	1294.2
57.5°	653.6	656.9	705.9	781.1	892.2	1036.0	1199.4	1339.9	1418.4	1434.7	1369.3
60°	614.4	617.7	650.4	722.3	817.0	931.4	1081.7	1192.9	1271.3	1320.3	1268.0
62.5°	581.7	581.7	614.4	663.4	741.9	826.8	911.8	987.0	1049.1	1085.0	1055.6
65°	545.8	545.8	568.7	614.4	676.5	758.2	823.6	879.1	934.7	960.8	934.7
67.5°	509.8	509.8	532.7	575.2	630.7	699.4	764.7	817.0	872.6	892.2	872.6
70°	473.9	473.9	496.8	532.7	585.0	650.4	699.4	754.9	807.2	820.3	804.0
72.5°	437.9	437.9	460.8	493.5	539.2	601.3	647.1	689.6	738.6	748.4	732.1
75°	405.2	405.2	421.6	454.3	496.8	552.3	598.1	637.3	676.5	676.5	663.4
77.5°	369.3	372.6	385.6	415.0	454.3	506.6	549.0	585.0	617.7	617.7	601.3
80°	333.3	336.6	349.7	375.8	411.8	460.8	500.0	532.7	562.1	562.1	545.8
82.5°	297.4	300.7	313.7	336.6	369.3	415.0	454.3	486.9	513.1	509.8	493.5
85°	264.7	268.0	277.8	297.4	326.8	372.6	408.5	437.9	460.8	457.5	444.5
87.5°	232.0	235.3	245.1	261.4	287.6	330.1	366.0	392.2	411.8	408.5	395.4
90°	202.6	202.6	212.4	228.8	251.6	287.6	320.3	343.2	362.8	356.2	343.2
92.5°	176.5	179.7	186.3	199.4	219.0	251.6	281.1	300.7	320.3	317.0	303.9
95°	156.9	156.9	163.4	173.2	189.6	215.7	245.1	261.4	274.5	274.5	264.7
97.5°	137.3	140.5	143.8	150.3	163.4	183.0	205.9	222.2	232.0	232.0	225.5
100°	124.2	127.5	127.5	134.0	140.5	153.6	169.9	183.0	192.8	192.8	189.6
102.5°	117.7	117.7	117.7	120.9	124.2	130.7	140.5	147.1	153.6	156.9	153.6
105°	111.1	111.1	111.1	114.4	114.4	120.9	124.2	130.7	134.0	134.0	130.7
107.5°	107.8	107.8	111.1	111.1	111.1	114.4	120.9	120.9	124.2	120.9	120.9
110°	111.1	111.1	111.1	111.1	111.1	114.4	117.7	117.7	117.7	117.7	114.4



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CATALOG NUMBER: CRTK2-C01H-D-U-T2-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	114.4	114.4	114.4	114.4	117.7	117.7	117.7	120.9	120.9	117.7	117.7
115°	124.2	124.2	124.2	124.2	124.2	127.5	127.5	127.5	127.5	124.2	120.9
117.5°	134.0	134.0	134.0	137.3	137.3	140.5	137.3	140.5	137.3	134.0	134.0
120°	150.3	150.3	153.6	156.9	160.1	160.1	156.9	160.1	160.1	153.6	150.3
122.5°	169.9	169.9	173.2	183.0	186.3	189.6	186.3	186.3	186.3	179.7	176.5
125°	189.6	192.8	199.4	212.4	222.2	228.8	222.2	225.5	225.5	215.7	212.4
127.5°	212.4	215.7	228.8	248.4	264.7	271.3	268.0	271.3	274.5	258.2	251.6
130°	235.3	235.3	254.9	284.3	307.2	317.0	320.3	323.5	326.8	310.5	297.4
132.5°	254.9	254.9	281.1	317.0	346.4	362.8	369.3	375.8	382.4	359.5	343.2
135°	268.0	271.3	303.9	346.4	382.4	405.2	415.0	421.6	431.4	405.2	385.6
137.5°	277.8	284.3	317.0	362.8	402.0	434.7	454.3	464.1	470.6	444.5	418.3
140°	281.1	284.3	320.3	366.0	405.2	441.2	470.6	486.9	490.2	464.1	437.9
142.5°	271.3	277.8	310.5	356.2	395.4	434.7	467.3	483.7	486.9	464.1	437.9
145°	258.2	261.4	290.9	333.3	372.6	415.0	451.0	467.3	467.3	447.7	421.6
147.5°	235.3	238.6	264.7	300.7	339.9	382.4	418.3	434.7	437.9	418.3	395.4
150°	202.6	205.9	225.5	254.9	294.1	336.6	369.3	388.9	388.9	369.3	353.0
152.5°	163.4	166.7	183.0	205.9	238.6	277.8	307.2	326.8	326.8	313.7	294.1
155°	127.5	127.5	140.5	160.1	183.0	212.4	235.3	251.6	254.9	241.8	228.8
157.5°	91.5	91.5	101.3	117.7	137.3	160.1	176.5	189.6	189.6	179.7	173.2
160°	62.1	62.1	68.6	78.4	91.5	107.8	120.9	134.0	134.0	127.5	120.9
162.5°	32.7	32.7	39.2	45.8	55.6	68.6	75.2	85.0	85.0	81.7	78.4
165°	9.8	9.8	13.1	16.3	22.9	29.4	32.7	39.2	42.5	39.2	35.9
167.5°	0.0	0.0	3.3	3.3	3.3	3.3	6.5	9.8	9.8	9.8	9.8
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°	179°	180°
0°	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2	7072.2
2.5°	6500.3	6706.2	6892.4	7085.3	7323.8	7533.0	7758.5	7918.6	7987.3	7987.3	8013.4
5°	6091.8	6235.6	6385.9	6555.8	6840.2	7189.8	7591.8	7921.9	8111.4	8140.9	8137.6
7.5°	5415.3	5513.3	5666.9	5856.5	6117.9	6431.6	6948.0	7464.4	7807.5	7869.6	7846.7
10°	4820.5	4912.0	5003.5	5075.4	5261.7	5510.0	5889.1	6392.4	6787.9	6850.0	6800.9
12.5°	4516.5	4545.9	4542.7	4585.2	4660.3	4784.5	4977.3	5268.2	5539.4	5598.3	5555.8
15°	4356.4	4313.9	4248.5	4173.4	4166.8	4186.4	4235.5	4353.1	4467.5	4516.5	4483.8
17.5°	4291.0	4189.7	4055.7	3908.7	3810.6	3719.1	3657.0	3617.8	3634.1	3637.4	3611.3
20°	4137.4	4016.5	3800.8	3591.7	3434.8	3274.6	3137.4	3036.1	3019.7	3003.4	2983.8
22.5°	3964.2	3758.3	3500.1	3245.2	3013.2	2800.8	2647.2	2526.2	2480.5	2496.8	2487.0
25°	3928.3	3585.1	3271.4	2859.6	2565.5	2326.9	2039.3	1843.2	1755.0	1804.0	1771.3
27.5°	2356.3	2366.1	2189.6	1941.3	1728.8	1588.3	1460.8	1356.3	1297.4	1297.4	1304.0
30°	2134.1	2039.3	1921.6	1768.0	1581.8	1441.2	1300.7	1186.3	1124.2	1107.9	1114.4
32.5°	1951.1	1885.7	1774.6	1627.5	1457.6	1313.8	1166.7	1062.1	1003.3	1000.0	996.8
35°	1755.0	1686.3	1594.8	1467.4	1320.3	1186.3	1058.9	967.4	915.1	918.3	918.3
37.5°	1621.0	1558.9	1477.2	1356.3	1222.3	1088.3	973.9	888.9	846.4	846.4	843.2
40°	1552.4	1480.5	1392.2	1281.1	1156.9	1016.4	908.5	826.8	790.9	790.9	787.6
42.5°	1402.0	1339.9	1281.1	1166.7	1042.5	928.1	826.8	754.9	719.0	719.0	719.0
45°	1189.6	1153.6	1107.9	1029.5	928.1	833.4	748.4	679.8	650.4	647.1	647.1
47.5°	1098.1	1058.9	1003.3	931.4	849.7	761.5	679.8	630.7	601.3	601.3	601.3
50°	1071.9	1026.2	951.0	866.0	781.1	702.6	630.7	585.0	558.8	558.8	562.1
52.5°	1107.9	1032.7	931.4	826.8	738.6	650.4	588.3	542.5	522.9	522.9	519.6
55°	1232.1	1091.5	944.5	817.0	705.9	611.1	545.8	496.8	473.9	473.9	473.9
57.5°	1300.7	1134.0	954.3	804.0	676.5	581.7	513.1	460.8	437.9	437.9	437.9
60°	1222.3	1085.0	915.1	777.8	653.6	555.6	483.7	434.7	411.8	408.5	405.2
62.5°	1022.9	937.9	817.0	702.6	604.6	519.6	460.8	411.8	388.9	388.9	385.6
65°	911.8	839.9	735.3	637.3	555.6	483.7	428.1	388.9	366.0	362.8	362.8
67.5°	849.7	784.3	679.8	588.3	513.1	447.7	395.4	359.5	343.2	336.6	336.6
70°	781.1	709.2	617.7	536.0	467.3	408.5	366.0	330.1	313.7	310.5	307.2
72.5°	712.4	647.1	562.1	483.7	421.6	372.6	333.3	300.7	284.3	281.1	281.1
75°	640.5	578.5	496.8	431.4	379.1	333.3	297.4	271.3	258.2	254.9	251.6
77.5°	581.7	526.2	447.7	385.6	336.6	300.7	268.0	245.1	232.0	232.0	228.8
80°	526.2	473.9	398.7	343.2	300.7	264.7	238.6	219.0	209.2	205.9	205.9
82.5°	473.9	421.6	353.0	303.9	264.7	235.3	209.2	192.8	183.0	183.0	183.0
85°	424.9	375.8	313.7	268.0	232.0	205.9	183.0	166.7	160.1	156.9	160.1
87.5°	375.8	330.1	277.8	235.3	202.6	176.5	156.9	143.8	137.3	137.3	137.3
90°	330.1	287.6	238.6	199.4	173.2	150.3	134.0	120.9	117.7	114.4	114.4
92.5°	290.9	254.9	212.4	179.7	153.6	137.3	120.9	111.1	104.6	104.6	104.6
95°	254.9	222.2	189.6	160.1	140.5	124.2	111.1	101.3	98.0	98.0	98.0
97.5°	219.0	192.8	166.7	143.8	127.5	114.4	101.3	94.8	91.5	88.2	91.5
100°	183.0	163.4	143.8	127.5	114.4	101.3	91.5	85.0	81.7	81.7	81.7
102.5°	147.1	137.3	120.9	107.8	98.0	91.5	81.7	75.2	71.9	71.9	71.9
105°	127.5	117.7	107.8	98.0	91.5	81.7	75.2	68.6	65.4	65.4	65.4
107.5°	117.7	111.1	101.3	94.8	85.0	78.4	71.9	62.1	58.8	58.8	58.8
110°	114.4	107.8	101.3	91.5	85.0	78.4	71.9	58.8	55.6	55.6	55.6



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CATALOG NUMBER: CRTK2-C01H-D-U-T2-7050-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	114.4	107.8	101.3	94.8	88.2	78.4	71.9	58.8	52.3	52.3	52.3
115°	120.9	114.4	107.8	101.3	91.5	81.7	75.2	58.8	52.3	52.3	52.3
117.5°	130.7	124.2	117.7	107.8	98.0	88.2	75.2	58.8	55.6	55.6	55.6
120°	147.1	140.5	130.7	120.9	107.8	94.8	81.7	62.1	52.3	55.6	55.6
122.5°	169.9	163.4	150.3	134.0	120.9	104.6	85.0	65.4	49.0	55.6	55.6
125°	202.6	192.8	173.2	153.6	134.0	114.4	91.5	68.6	52.3	58.8	58.8
127.5°	238.6	225.5	199.4	173.2	150.3	124.2	98.0	71.9	55.6	58.8	58.8
130°	281.1	258.2	225.5	192.8	163.4	134.0	104.6	75.2	58.8	58.8	58.8
132.5°	323.5	290.9	248.4	212.4	176.5	140.5	107.8	75.2	58.8	58.8	58.8
135°	359.5	320.3	271.3	225.5	183.0	143.8	111.1	75.2	58.8	58.8	58.8
137.5°	392.2	339.9	284.3	232.0	186.3	143.8	107.8	75.2	55.6	55.6	55.6
140°	408.5	349.7	290.9	232.0	183.0	140.5	101.3	68.6	52.3	52.3	52.3
142.5°	408.5	346.4	284.3	225.5	176.5	134.0	94.8	65.4	45.8	49.0	49.0
145°	395.4	333.3	271.3	212.4	163.4	120.9	85.0	55.6	42.5	42.5	42.5
147.5°	366.0	307.2	248.4	192.8	147.1	104.6	75.2	49.0	35.9	32.7	35.9
150°	326.8	271.3	215.7	166.7	124.2	88.2	62.1	39.2	29.4	29.4	29.4
152.5°	274.5	225.5	179.7	137.3	98.0	68.6	45.8	29.4	22.9	22.9	22.9
155°	215.7	176.5	140.5	104.6	75.2	52.3	35.9	22.9	16.3	16.3	16.3
157.5°	163.4	134.0	104.6	75.2	55.6	39.2	26.1	16.3	13.1	13.1	13.1
160°	114.4	91.5	71.9	52.3	35.9	26.1	16.3	9.8	6.5	6.5	6.5
162.5°	71.9	58.8	45.8	29.4	22.9	16.3	9.8	6.5	3.3	3.3	3.3
165°	32.7	29.4	19.6	13.1	9.8	6.5	3.3	3.3	0.0	0.0	0.0
167.5°	9.8	6.5	6.5	3.3	3.3	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)