

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: P691857

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691857
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-C01H-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: 7340 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B3 - U4 - G2

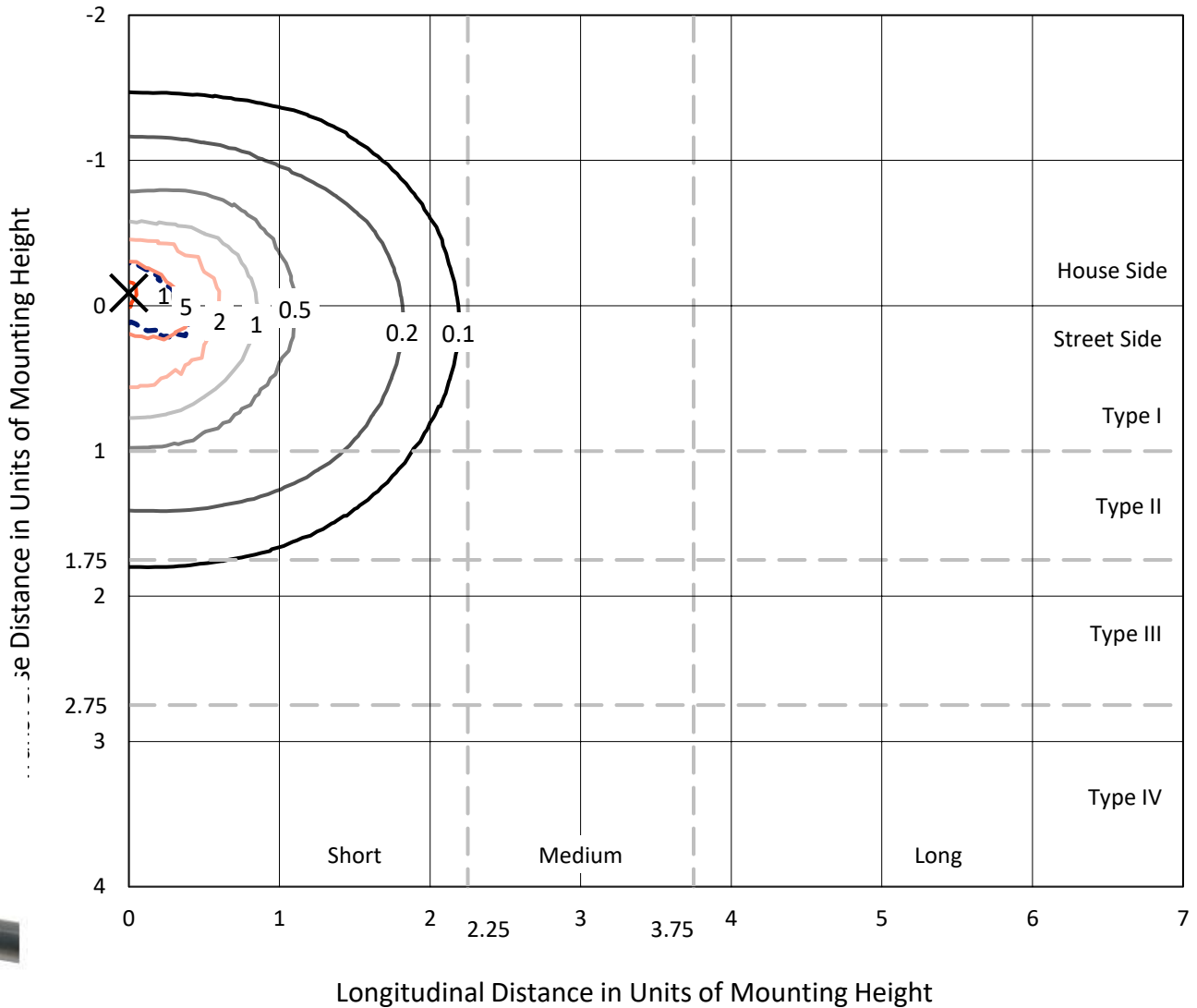
Input Watts (W): 70.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

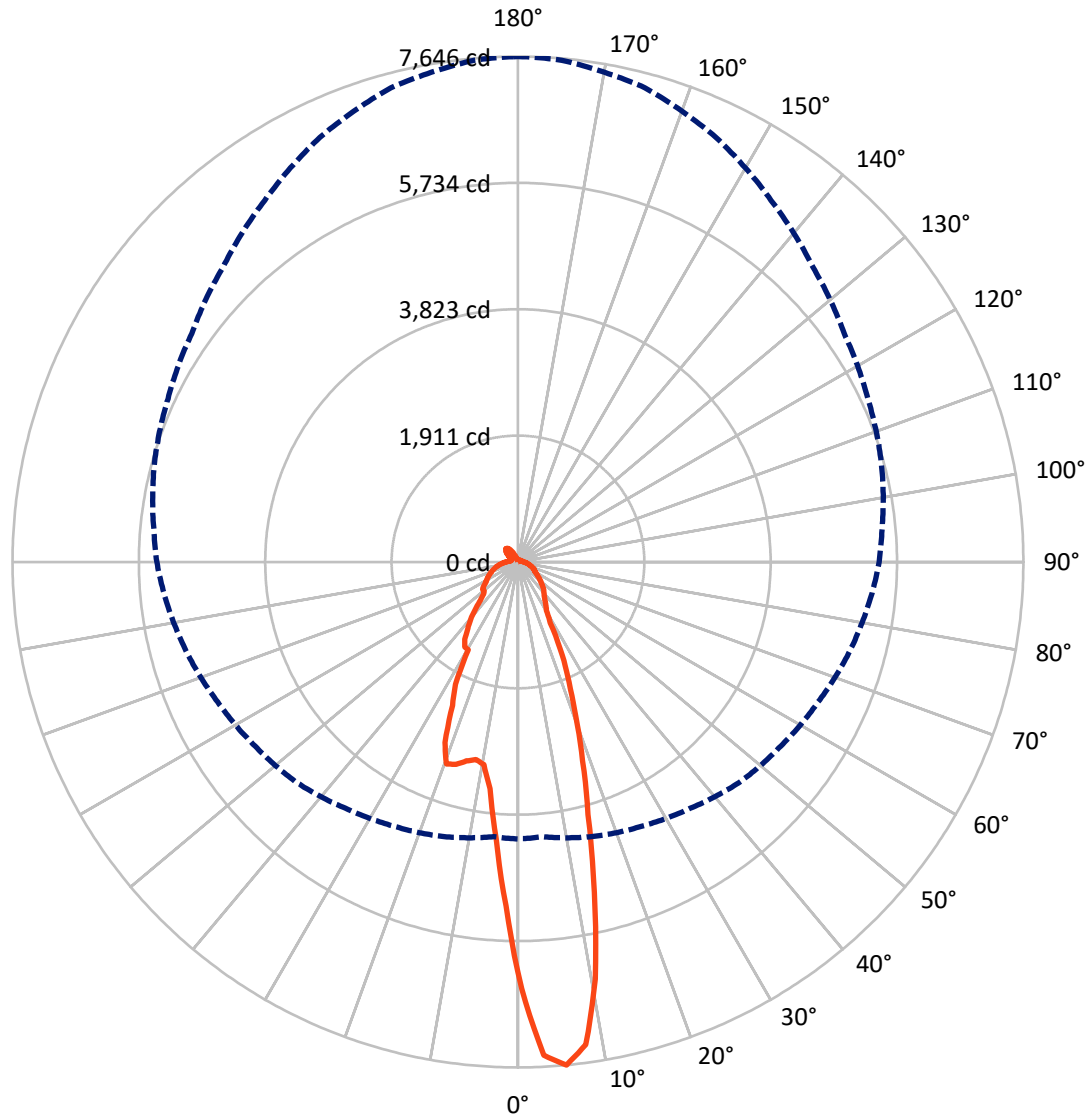
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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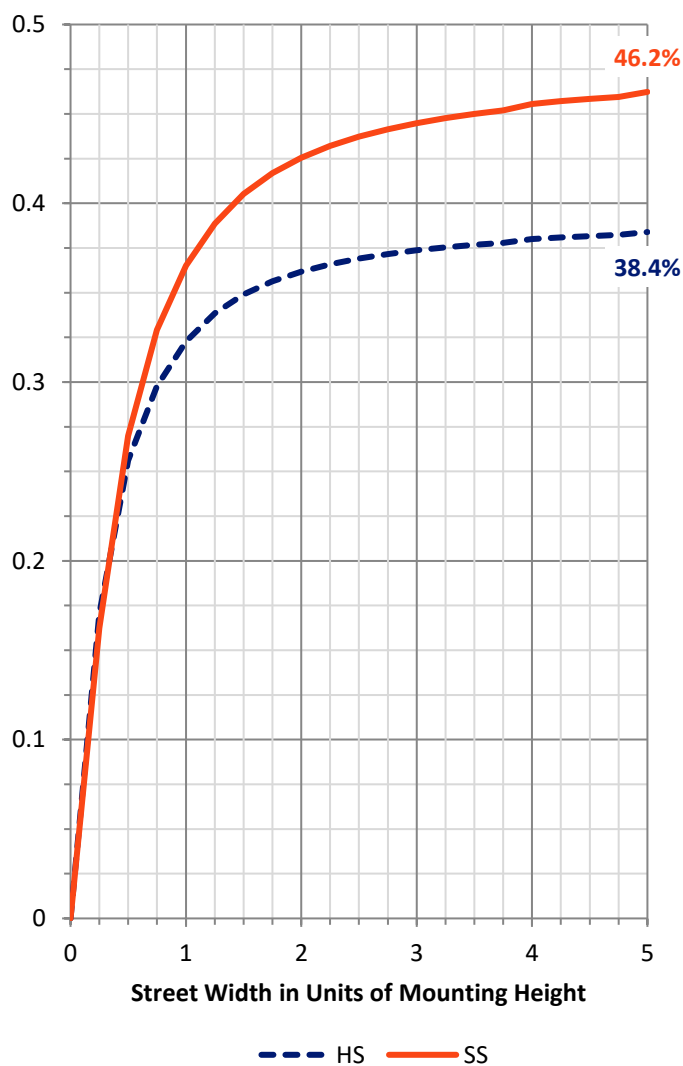
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2892.6	339.6	3232.2
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	3476.4	631.3	4107.8
	% Fixture	47.4	8.6	56.0
Total	Lumens	6369.0	970.9	7340.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.5	6.8
10°-20°	1059.9	14.4
20°-30°	1153.4	15.7
30°-40°	844.3	11.5
40°-50°	709.8	9.7
50°-60°	720.9	9.8
60°-70°	612.8	8.3
70°-80°	457.3	6.2
80°-90°	311.2	4.2
90°-100°	186.9	2.5
100°-110°	107.2	1.5
110°-120°	98.7	1.3
120°-130°	143.3	2.0
130°-140°	197.1	2.7
140°-150°	163.2	2.2
150°-160°	66.4	0.9
160°-170°	8.3	0.1
170°-180°	0.0	0.0
0°-90°	6369.0	86.8
0°-180°	7340.0	100.0

Coefficient of Utilization



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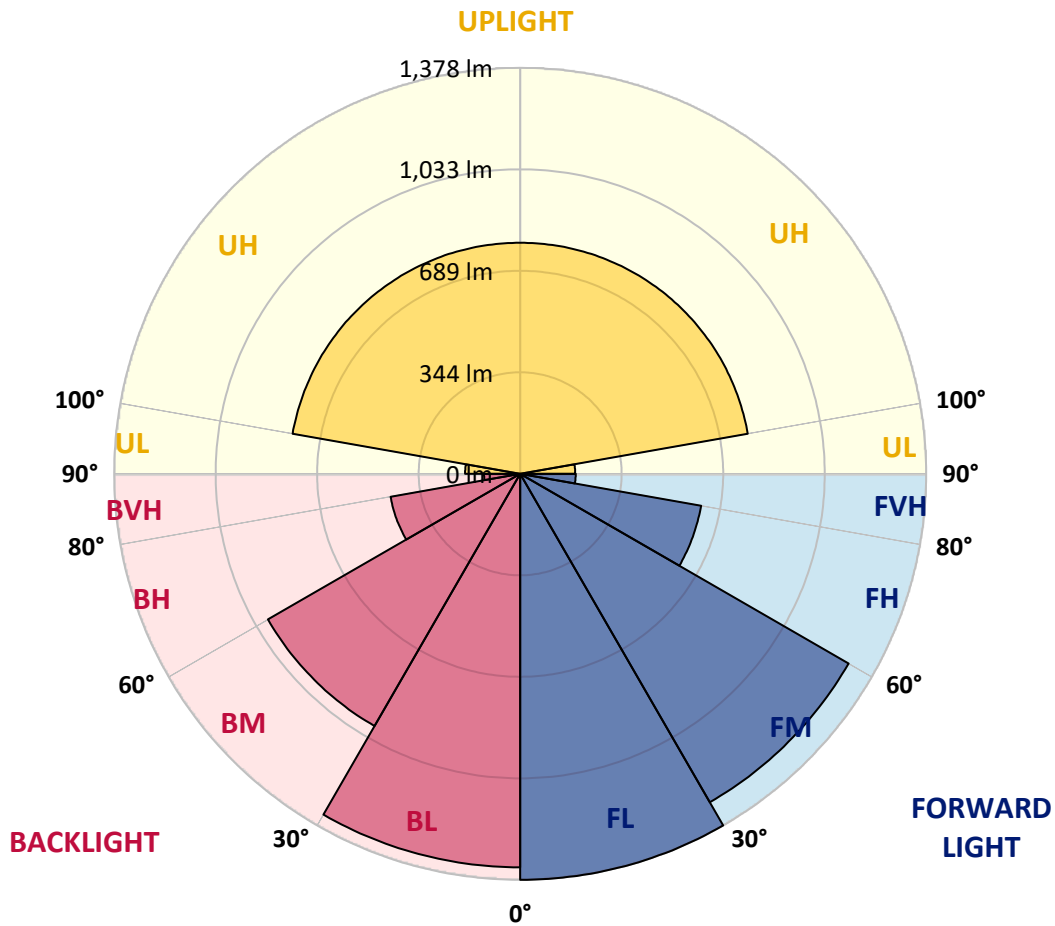
CATALOG NUMBER: CRTK2-C01H-D-U-T2-7050-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1377.6	18.8			
FM (30°-60°)	1286.8	17.5			
FH (60°-80°)	623.5	8.5			G0/660
FVH (80°-90°)	188.5	2.6			G2/225
BL (0°-30°)	1335.1	18.2	B3/2500		
BM (30°-60°)	988.2	13.5	B1/1000		
BH (60°-80°)	446.5	6.1	B1/500		G1/500
BVH (80°-90°)	122.7	1.7			G2/225
UL (90°-100°)	186.9	2.5		U3/500	
UH (100°-180°)	784.0	10.7		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°	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4
2.5°	5203.8	5193.9	5265.9	5282.2	5288.7	5363.9	5465.2	5533.9	5658.1	5779.0	5828.1
5°	4190.5	4170.8	4301.6	4412.7	4546.7	4723.3	4854.0	5010.9	5197.2	5377.0	5462.0
7.5°	3455.0	3481.2	3667.5	3896.3	4112.0	4321.2	4481.4	4615.4	4723.3	4837.7	4860.5
10°	3108.5	3131.4	3314.5	3533.5	3732.8	3945.3	4082.6	4197.0	4265.6	4350.6	4380.0
12.5°	3053.0	3069.3	3193.5	3347.1	3497.5	3690.4	3863.6	3991.1	4069.5	4138.2	4144.7
15°	3108.5	3115.1	3190.2	3291.6	3422.3	3582.5	3781.9	3925.7	4014.0	4043.4	4036.8
17.5°	3200.0	3200.0	3236.0	3321.0	3445.2	3598.8	3788.4	3935.5	4027.0	4040.1	4014.0
20°	3239.3	3245.8	3268.7	3363.5	3474.6	3615.2	3804.8	3929.0	4000.9	3964.9	3919.2
22.5°	2945.1	2932.0	2994.1	3193.5	3441.9	3693.6	3873.4	4014.0	4053.2	3932.2	3834.2
25°	2382.9	2389.4	2428.6	2526.7	2719.5	2951.6	3350.4	3778.6	4076.1	4030.3	3883.2
27.5°	2078.9	2059.3	2069.1	2085.4	2059.3	2010.2	2056.0	2046.2	2039.7	2157.3	2170.4
30°	1526.5	1529.7	1546.1	1575.5	1637.6	1729.1	1827.2	1882.8	1931.8	2023.3	2010.2
32.5°	1516.7	1519.9	1529.7	1555.9	1588.6	1650.7	1712.8	1735.7	1788.0	1863.2	1840.3
35°	1418.6	1408.8	1435.0	1457.8	1467.6	1493.8	1542.8	1575.5	1608.2	1660.5	1647.4
37.5°	1258.4	1261.7	1314.0	1350.0	1359.8	1395.7	1441.5	1467.6	1503.6	1549.4	1526.5
40°	1121.2	1124.4	1186.5	1225.8	1248.6	1297.7	1366.3	1399.0	1457.8	1493.8	1467.6
42.5°	964.3	977.3	1019.8	1065.6	1078.7	1108.1	1153.8	1196.3	1271.5	1320.6	1304.2
45°	804.1	810.6	840.1	885.8	905.4	938.1	980.6	1019.8	1078.7	1117.9	1114.6
47.5°	709.3	715.8	742.0	781.2	820.4	862.9	908.7	947.9	1003.5	1036.2	1023.1
50°	670.1	676.6	709.3	755.1	804.1	859.7	915.2	957.7	1010.0	1029.6	1013.3
52.5°	676.6	676.6	722.4	781.2	849.9	925.0	993.7	1046.0	1088.5	1101.5	1065.6
55°	640.7	650.5	699.5	781.2	885.8	1003.5	1121.2	1232.3	1294.4	1281.3	1212.7
57.5°	585.1	594.9	630.9	719.1	830.2	970.8	1137.5	1274.8	1350.0	1359.8	1291.1
60°	552.4	558.9	591.6	660.3	758.3	872.7	1023.1	1134.2	1219.2	1245.4	1196.3
62.5°	523.0	529.5	555.7	608.0	679.9	768.1	853.1	925.0	993.7	1019.8	1000.2
65°	490.3	493.6	519.7	565.5	624.3	699.5	771.4	823.7	879.3	895.6	872.7
67.5°	457.6	460.9	483.8	526.3	581.8	650.5	706.0	764.9	820.4	833.5	817.2
70°	428.2	431.5	451.1	490.3	539.3	604.7	657.0	696.2	751.8	764.9	745.3
72.5°	398.8	402.0	421.7	457.6	503.4	562.2	608.0	647.2	693.0	696.2	679.9
75°	369.4	372.6	389.0	421.7	460.9	519.7	562.2	594.9	634.1	634.1	614.5
77.5°	336.7	343.2	356.3	385.7	421.7	477.2	516.5	549.1	581.8	578.6	558.9
80°	307.3	310.5	323.6	349.7	382.4	434.7	474.0	500.1	529.5	526.3	509.9
82.5°	274.6	277.8	287.6	313.8	343.2	392.2	431.5	457.6	483.8	477.2	460.9
85°	241.9	245.2	258.2	277.8	307.3	353.0	389.0	415.1	434.7	428.2	415.1
87.5°	215.7	215.7	225.5	245.2	271.3	313.8	346.5	372.6	389.0	385.7	372.6
90°	186.3	189.6	196.1	212.5	235.3	271.3	304.0	326.9	343.2	336.7	323.6
92.5°	163.4	163.4	170.0	186.3	205.9	238.6	268.0	287.6	300.7	297.5	287.6
95°	140.6	143.8	147.1	160.2	176.5	202.7	228.8	248.4	261.5	258.2	251.7
97.5°	124.2	127.5	130.7	137.3	153.6	170.0	192.9	209.2	222.3	219.0	212.5
100°	114.4	114.4	114.4	120.9	130.7	143.8	160.2	173.2	179.8	183.0	176.5
102.5°	104.6	104.6	107.9	107.9	114.4	120.9	130.7	140.6	143.8	143.8	143.8
105°	101.3	101.3	104.6	104.6	107.9	111.1	117.7	120.9	124.2	124.2	120.9
107.5°	101.3	101.3	101.3	101.3	104.6	107.9	111.1	114.4	114.4	114.4	111.1
110°	104.6	104.6	104.6	104.6	104.6	107.9	107.9	111.1	111.1	107.9	107.9



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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	107.9	107.9	107.9	107.9	107.9	111.1	111.1	111.1	111.1	107.9	107.9
115°	114.4	114.4	114.4	117.7	117.7	117.7	117.7	117.7	117.7	114.4	111.1
117.5°	127.5	127.5	127.5	127.5	130.7	130.7	130.7	130.7	130.7	124.2	124.2
120°	143.8	140.6	143.8	147.1	150.4	150.4	150.4	150.4	150.4	143.8	140.6
122.5°	160.2	160.2	163.4	170.0	176.5	179.8	176.5	176.5	176.5	166.7	163.4
125°	179.8	179.8	189.6	202.7	212.5	215.7	212.5	212.5	212.5	202.7	196.1
127.5°	202.7	202.7	215.7	235.3	251.7	261.5	258.2	258.2	258.2	241.9	232.1
130°	225.5	225.5	245.2	271.3	297.5	304.0	307.3	310.5	310.5	290.9	277.8
132.5°	241.9	245.2	268.0	304.0	336.7	346.5	356.3	359.6	359.6	336.7	317.1
135°	258.2	261.5	290.9	333.4	369.4	392.2	402.0	405.3	408.6	382.4	359.6
137.5°	268.0	271.3	304.0	353.0	389.0	418.4	441.3	447.8	447.8	418.4	389.0
140°	268.0	271.3	307.3	353.0	392.2	428.2	454.3	467.4	467.4	438.0	411.9
142.5°	261.5	268.0	300.7	346.5	385.7	421.7	451.1	464.2	464.2	438.0	411.9
145°	248.4	251.7	284.4	323.6	362.8	405.3	438.0	451.1	451.1	424.9	398.8
147.5°	225.5	228.8	255.0	290.9	330.1	372.6	405.3	421.7	418.4	395.5	372.6
150°	196.1	196.1	219.0	248.4	287.6	326.9	359.6	375.9	375.9	353.0	333.4
152.5°	160.2	160.2	176.5	199.4	232.1	271.3	297.5	313.8	313.8	297.5	281.1
155°	124.2	124.2	137.3	153.6	179.8	209.2	228.8	245.2	245.2	232.1	219.0
157.5°	88.3	88.3	101.3	114.4	134.0	156.9	173.2	183.0	186.3	173.2	166.7
160°	58.8	58.8	65.4	75.2	91.5	107.9	117.7	127.5	130.7	120.9	117.7
162.5°	32.7	32.7	36.0	45.8	55.6	65.4	75.2	81.7	81.7	78.4	75.2
165°	9.8	9.8	13.1	16.3	22.9	29.4	32.7	36.0	39.2	39.2	36.0
167.5°	0.0	0.0	3.3	3.3	3.3	3.3	6.5	6.5	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°	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4	6452.4
2.5°	5929.4	6112.4	6311.8	6504.7	6740.0	6985.2	7210.7	7364.4	7446.1	7472.2	7472.2
5°	5527.4	5694.1	5841.1	6024.2	6308.6	6677.9	7086.5	7426.5	7619.3	7642.2	7645.5
7.5°	4899.8	5037.1	5190.7	5354.1	5605.8	5935.9	6475.3	7024.4	7338.2	7397.0	7374.2
10°	4386.6	4471.6	4563.1	4625.2	4801.7	5046.9	5413.0	5952.3	6338.0	6383.8	6416.4
12.5°	4148.0	4161.0	4134.9	4148.0	4206.8	4321.2	4501.0	4811.5	5063.2	5105.7	5128.6
15°	4027.0	3961.7	3857.1	3759.0	3706.7	3716.5	3755.7	3883.2	3925.7	3997.6	3964.9
17.5°	3971.5	3824.4	3660.9	3471.3	3353.7	3232.7	3167.4	3144.5	3128.1	3131.4	3160.8
20°	3830.9	3664.2	3402.7	3154.3	2964.7	2798.0	2657.4	2556.1	2500.5	2474.4	2494.0
22.5°	3683.8	3425.6	3118.3	2850.3	2579.0	2366.5	2206.4	2059.3	1977.6	2000.4	1974.3
25°	3687.1	3301.4	2935.3	2582.3	2327.3	2046.2	1791.2	1637.6	1503.6	1529.7	1565.7
27.5°	2324.0	2222.7	1961.2	1755.3	1500.3	1359.8	1232.3	1124.4	1049.2	1052.5	1042.7
30°	1971.0	1866.4	1735.7	1572.2	1379.4	1216.0	1068.9	944.7	872.7	853.1	849.9
32.5°	1820.7	1732.4	1611.5	1451.3	1274.8	1111.4	964.3	849.9	777.9	774.7	774.7
35°	1621.3	1539.6	1438.2	1300.9	1150.6	1000.2	862.9	764.9	706.0	706.0	702.8
37.5°	1497.1	1425.1	1327.1	1199.6	1065.6	915.2	794.3	706.0	643.9	640.7	643.9
40°	1431.7	1356.5	1261.7	1140.8	1006.8	862.9	748.5	657.0	611.2	608.0	604.7
42.5°	1300.9	1242.1	1160.4	1049.2	931.6	804.1	696.2	614.5	575.3	572.0	575.3
45°	1104.8	1062.3	1006.8	925.0	827.0	719.1	624.3	562.2	523.0	523.0	523.0
47.5°	1013.3	974.1	912.0	830.2	745.3	643.9	565.5	513.2	477.2	477.2	477.2
50°	990.4	941.4	859.7	768.1	676.6	588.4	516.5	464.2	438.0	434.7	438.0
52.5°	1023.1	947.9	836.8	728.9	627.6	542.6	474.0	424.9	398.8	398.8	398.8
55°	1140.8	1003.5	856.4	719.1	598.2	503.4	434.7	385.7	359.6	356.3	359.6
57.5°	1219.2	1046.0	862.9	709.3	578.6	477.2	402.0	349.7	323.6	320.3	323.6
60°	1150.6	1010.0	833.5	683.2	562.2	457.6	379.2	326.9	300.7	297.5	297.5
62.5°	954.5	872.7	745.3	617.8	519.7	428.2	356.3	307.3	281.1	277.8	281.1
65°	846.6	774.7	663.5	562.2	477.2	398.8	336.7	294.2	268.0	268.0	268.0
67.5°	787.8	722.4	617.8	519.7	441.3	369.4	310.5	271.3	248.4	248.4	248.4
70°	719.1	653.7	558.9	470.7	398.8	336.7	284.4	245.2	225.5	222.3	225.5
72.5°	660.3	594.9	506.6	424.9	359.6	304.0	258.2	222.3	205.9	202.7	205.9
75°	594.9	532.8	447.8	375.9	320.3	271.3	232.1	199.4	186.3	183.0	183.0
77.5°	539.3	480.5	402.0	336.7	287.6	241.9	205.9	183.0	170.0	166.7	166.7
80°	490.3	434.7	359.6	300.7	255.0	215.7	186.3	163.4	150.4	150.4	150.4
82.5°	438.0	389.0	320.3	264.8	225.5	192.9	163.4	143.8	134.0	134.0	134.0
85°	395.5	346.5	281.1	235.3	196.1	166.7	143.8	127.5	117.7	117.7	117.7
87.5°	349.7	307.3	248.4	205.9	173.2	147.1	124.2	107.9	104.6	101.3	101.3
90°	304.0	264.8	212.5	176.5	147.1	124.2	104.6	91.5	88.3	85.0	85.0
92.5°	271.3	235.3	192.9	160.2	134.0	111.1	98.1	85.0	81.7	81.7	78.4
95°	235.3	205.9	170.0	143.8	120.9	104.6	91.5	81.7	78.4	78.4	75.2
97.5°	202.7	176.5	150.4	130.7	111.1	98.1	85.0	78.4	71.9	71.9	71.9
100°	170.0	150.4	130.7	111.1	101.3	88.3	78.4	71.9	68.6	65.4	65.4
102.5°	137.3	124.2	107.9	98.1	85.0	75.2	68.6	62.1	58.8	58.8	58.8
105°	117.7	107.9	98.1	88.3	78.4	68.6	62.1	55.6	52.3	52.3	52.3
107.5°	107.9	101.3	91.5	81.7	75.2	65.4	58.8	49.0	45.8	49.0	49.0
110°	104.6	98.1	88.3	81.7	71.9	65.4	58.8	45.8	42.5	45.8	45.8



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

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	104.6	98.1	91.5	81.7	75.2	65.4	58.8	45.8	42.5	42.5	42.5
115°	107.9	104.6	94.8	88.3	78.4	68.6	58.8	45.8	42.5	42.5	42.5
117.5°	120.9	114.4	104.6	94.8	85.0	71.9	62.1	45.8	42.5	42.5	42.5
120°	134.0	127.5	117.7	104.6	91.5	78.4	65.4	45.8	39.2	42.5	42.5
122.5°	156.9	147.1	134.0	117.7	101.3	85.0	65.4	49.0	36.0	42.5	42.5
125°	186.3	173.2	153.6	130.7	111.1	91.5	68.6	49.0	39.2	42.5	42.5
127.5°	219.0	202.7	176.5	147.1	120.9	94.8	71.9	49.0	39.2	39.2	42.5
130°	261.5	235.3	199.4	163.4	130.7	101.3	71.9	49.0	39.2	39.2	39.2
132.5°	297.5	264.8	219.0	176.5	137.3	104.6	71.9	49.0	36.0	36.0	36.0
135°	333.4	290.9	235.3	186.3	143.8	104.6	71.9	45.8	36.0	36.0	36.0
137.5°	362.8	307.3	248.4	189.6	143.8	101.3	68.6	42.5	32.7	32.7	32.7
140°	379.2	317.1	251.7	189.6	137.3	98.1	62.1	39.2	29.4	29.4	29.4
142.5°	379.2	313.8	248.4	183.0	130.7	91.5	55.6	32.7	26.1	26.1	26.1
145°	366.1	300.7	235.3	173.2	120.9	81.7	49.0	29.4	19.6	19.6	22.9
147.5°	343.2	277.8	215.7	156.9	107.9	68.6	42.5	22.9	16.3	16.3	16.3
150°	304.0	245.2	186.3	137.3	91.5	58.8	36.0	19.6	13.1	13.1	13.1
152.5°	255.0	202.7	156.9	114.4	75.2	45.8	26.1	16.3	9.8	9.8	9.8
155°	202.7	160.2	124.2	88.3	55.6	36.0	19.6	13.1	9.8	9.8	9.8
157.5°	150.4	120.9	91.5	65.4	42.5	26.1	16.3	9.8	6.5	6.5	6.5
160°	104.6	85.0	62.1	42.5	26.1	16.3	9.8	6.5	3.3	3.3	3.3
162.5°	68.6	52.3	39.2	26.1	16.3	9.8	6.5	3.3	3.3	3.3	3.3
165°	32.7	26.1	19.6	13.1	6.5	6.5	3.3	3.3	0.0	0.0	0.0
167.5°	9.8	6.5	3.3	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)