

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: P691789

Luminaire Tested: **CRTK2-C01H-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691789
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-C01H-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 7661 lumens
Efficiency: N/A
Efficacy: 102.3 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): 74.9
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

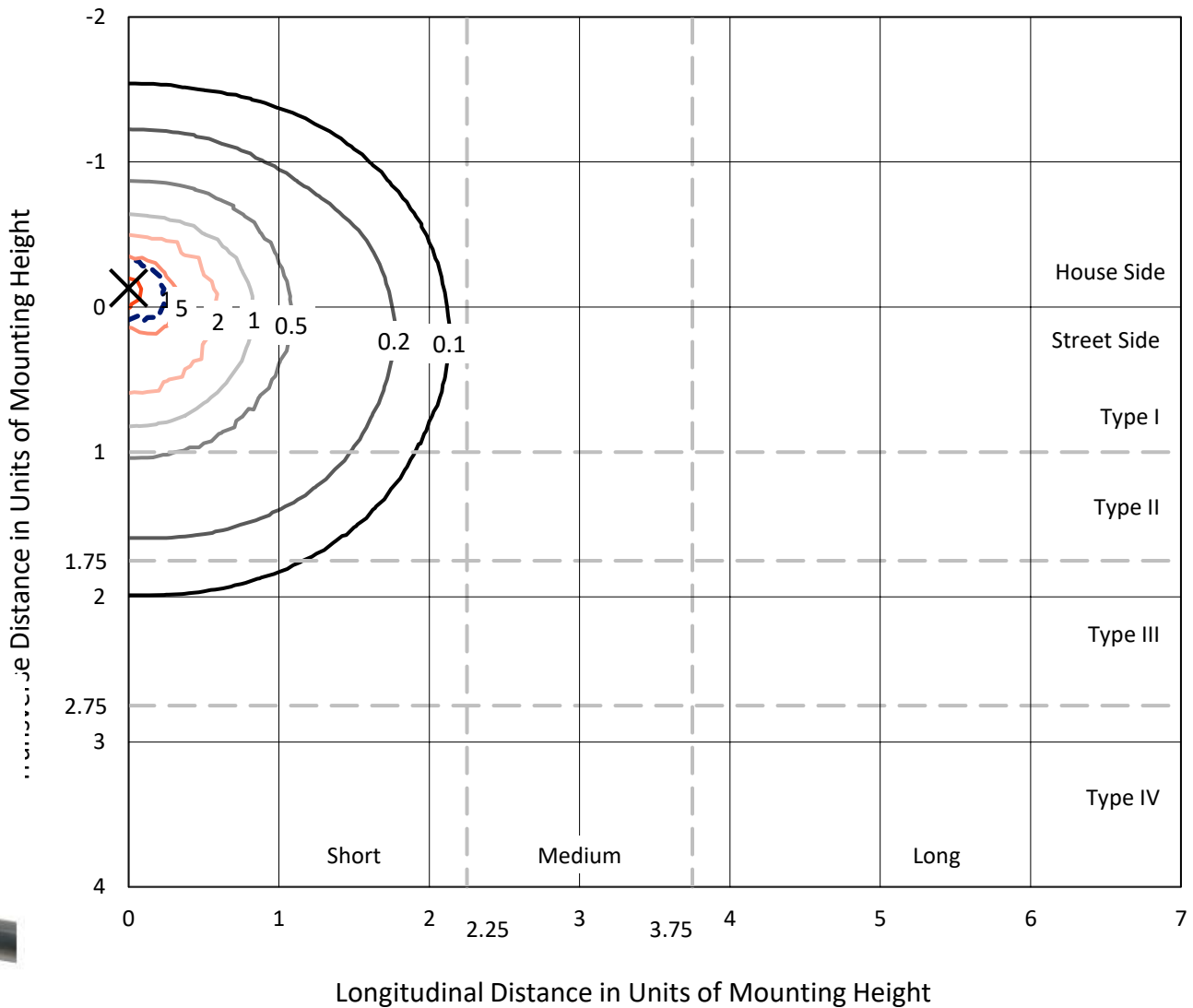


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

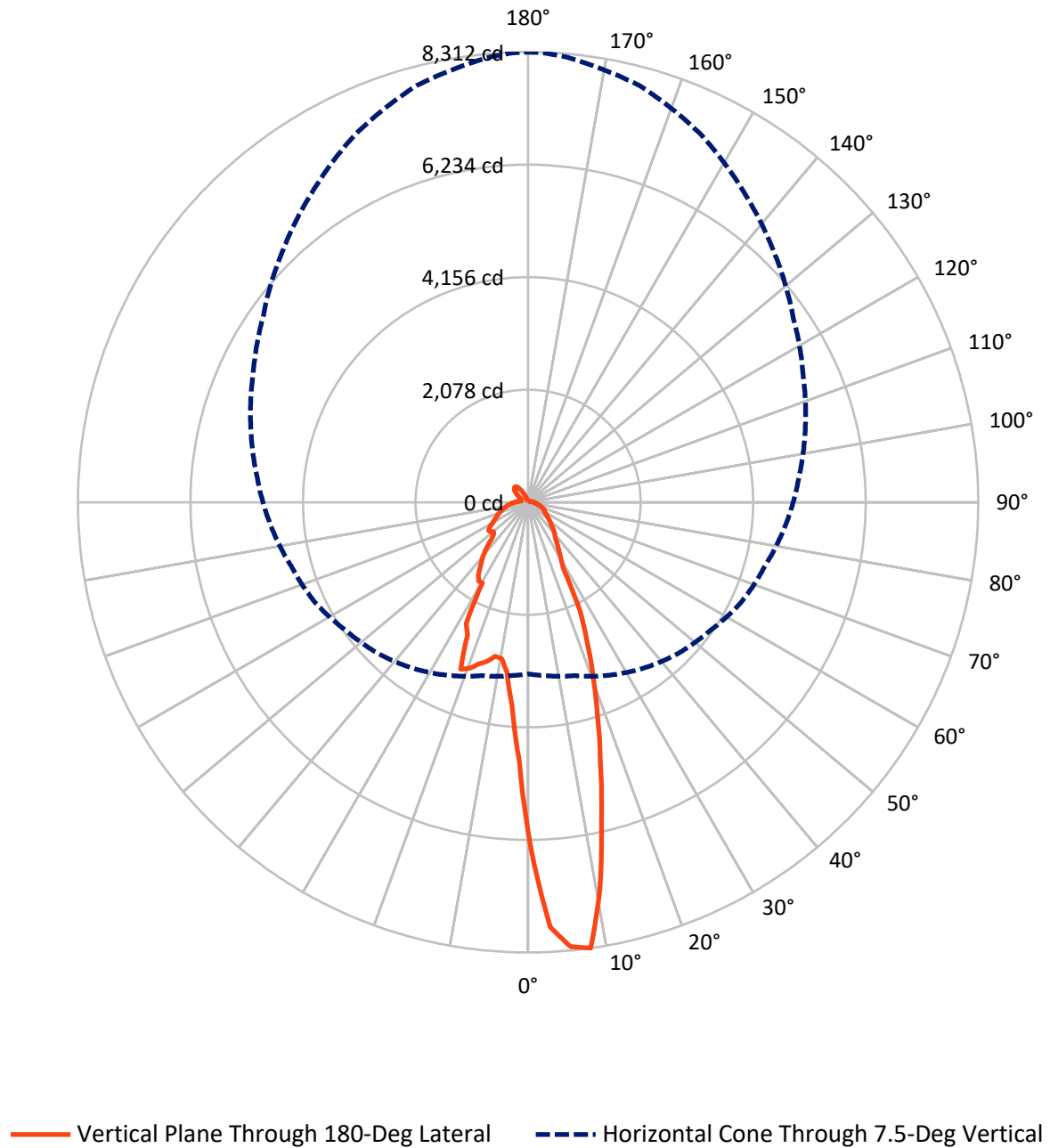


Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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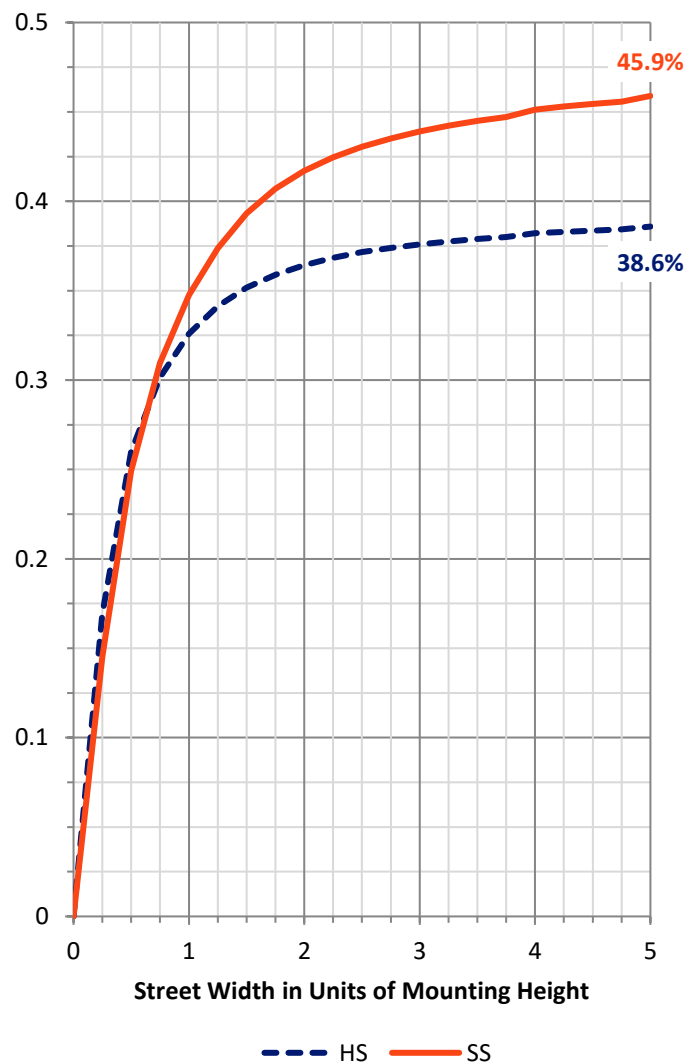
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3033.1	316.3	3349.4
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	3616.9	694.6	4311.6
	% Fixture	47.2	9.1	56.3
Total	Lumens	6650.1	1010.9	7661.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.3	6.7
10°-20°	1098.0	14.3
20°-30°	1212.5	15.8
30°-40°	879.4	11.5
40°-50°	740.9	9.7
50°-60°	756.4	9.9
60°-70°	644.6	8.4
70°-80°	480.6	6.3
80°-90°	324.4	4.2
90°-100°	193.9	2.5
100°-110°	111.5	1.5
110°-120°	104.2	1.4
120°-130°	151.9	2.0
130°-140°	206.3	2.7
140°-150°	167.9	2.2
150°-160°	67.0	0.9
160°-170°	8.1	0.1
170°-180°	0.0	0.0
0°-90°	6650.1	86.8
0°-180°	7661.0	100.0

Coefficient of Utilization



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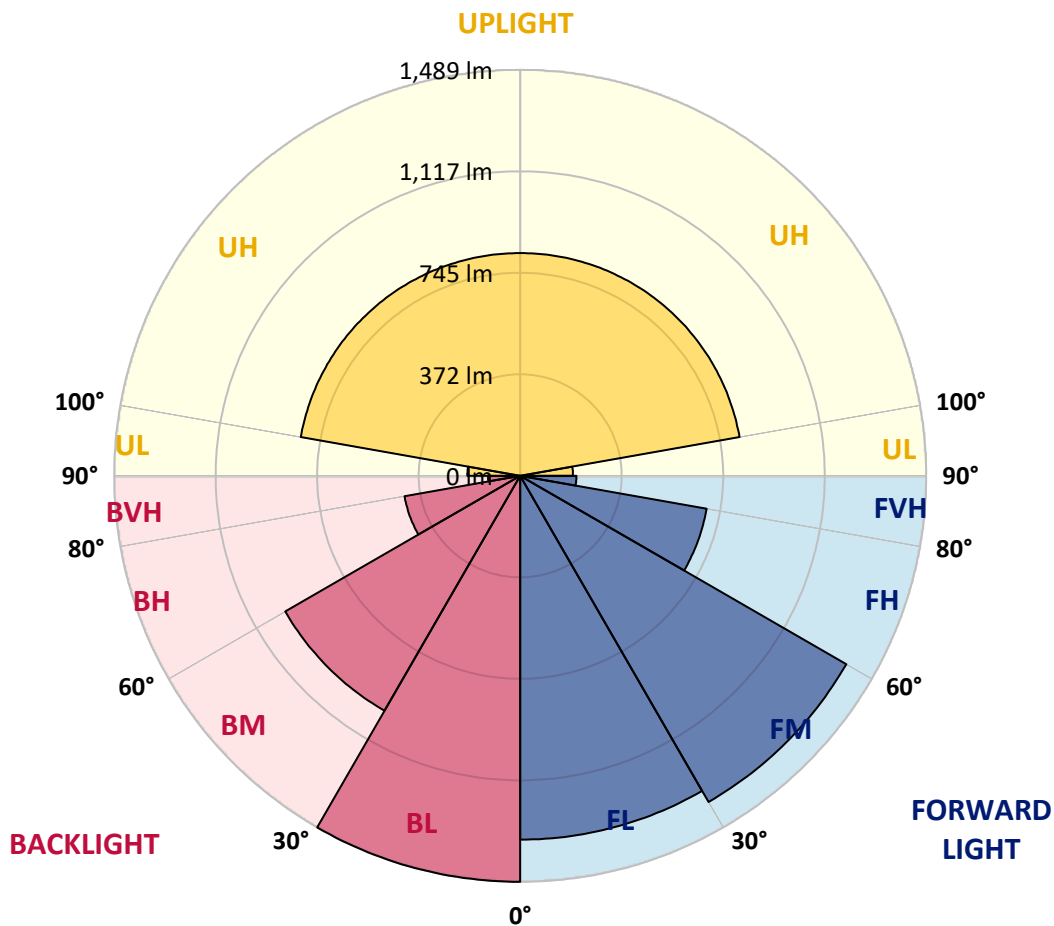
CATALOG NUMBER: CRTK2-C01H-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1334.6	17.4			
FM	(30°-60°)	1381.6	18.0			
FH	(60°-80°)	694.4	9.1			G1/1800
FVH	(80°-90°)	206.3	2.7			G2/225
BL	(0°-30°)	1489.3	19.4	B3/2500		
BM	(30°-60°)	995.1	13.0	B1/1000		
BH	(60°-80°)	430.8	5.6	B1/500		G1/500
BVH	(80°-90°)	118.0	1.5			G2/225
UL	(90°-100°)	193.9	2.5		U3/500	
UH	(100°-180°)	817.0	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°	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1
2.5°	4754.4	4864.7	4874.8	4995.1	5085.4	5169.0	5229.2	5403.0	5580.2	5747.4	5844.4
5°	3774.8	3828.3	3925.2	4055.6	4222.8	4353.2	4540.4	4784.5	5018.5	5312.8	5456.5
7.5°	3169.6	3209.7	3313.4	3524.0	3734.6	3935.3	4115.8	4349.8	4530.4	4774.5	4894.8
10°	2928.9	2952.3	3039.2	3186.3	3386.9	3554.1	3711.2	3888.4	4048.9	4272.9	4359.9
12.5°	2905.5	2915.5	2985.7	3089.4	3206.4	3343.5	3473.9	3624.3	3794.8	3972.0	4038.9
15°	3032.5	3025.8	3049.2	3109.4	3176.3	3283.3	3403.6	3540.7	3704.6	3834.9	3888.4
17.5°	3122.8	3119.4	3162.9	3189.7	3253.2	3316.7	3437.1	3544.1	3704.6	3808.2	3838.3
20°	3253.2	3259.9	3273.2	3323.4	3350.1	3393.6	3467.2	3530.7	3667.8	3728.0	3721.3
22.5°	3323.4	3320.1	3376.9	3493.9	3524.0	3547.4	3560.8	3587.5	3664.4	3661.1	3610.9
25°	2694.8	2701.5	2714.9	2815.2	2942.2	3149.5	3320.1	3587.5	3731.3	3677.8	3570.8
27.5°	2517.6	2497.6	2427.4	2370.5	2200.0	2086.3	1979.3	1932.5	1955.9	1996.0	2106.4
30°	1715.2	1718.5	1725.2	1735.3	1752.0	1795.4	1825.5	1828.9	1852.3	1919.1	1895.7
32.5°	1718.5	1721.9	1711.9	1721.9	1715.2	1731.9	1728.6	1715.2	1735.3	1795.4	1772.0
35°	1614.9	1608.2	1614.9	1618.2	1581.5	1568.1	1564.7	1554.7	1568.1	1598.2	1578.1
37.5°	1454.4	1451.1	1481.2	1497.9	1467.8	1467.8	1461.1	1447.7	1457.7	1484.5	1457.7
40°	1314.0	1317.3	1360.8	1387.5	1377.5	1387.5	1397.6	1394.2	1417.6	1427.7	1394.2
42.5°	1160.2	1153.5	1197.0	1217.0	1197.0	1203.6	1200.3	1203.6	1250.5	1270.5	1247.1
45°	969.6	979.6	999.7	1026.4	1023.1	1033.1	1029.8	1036.5	1066.6	1076.6	1059.9
47.5°	862.6	869.3	892.7	922.8	939.5	956.2	956.2	959.6	979.6	983.0	966.3
50°	839.2	845.9	876.0	909.4	936.2	956.2	966.3	962.9	972.9	966.3	942.9
52.5°	879.3	879.3	926.1	966.3	999.7	1036.5	1049.8	1036.5	1036.5	1009.7	972.9
55°	896.0	899.4	956.2	1026.4	1090.0	1156.8	1200.3	1197.0	1193.6	1150.2	1083.3
57.5°	842.6	852.6	909.4	989.7	1076.6	1183.6	1247.1	1257.1	1257.1	1200.3	1126.7
60°	765.7	772.3	815.8	882.7	969.6	1049.8	1116.7	1123.4	1143.5	1113.4	1046.5
62.5°	702.1	708.8	745.6	795.7	859.3	909.4	929.5	929.5	939.5	929.5	882.7
65°	655.3	658.7	688.8	732.2	775.7	815.8	835.9	829.2	842.6	829.2	792.4
67.5°	611.9	611.9	638.6	672.0	712.2	759.0	772.3	779.0	792.4	775.7	742.2
70°	568.4	571.7	598.5	625.2	662.0	695.4	708.8	712.2	728.9	708.8	685.4
72.5°	531.6	531.6	555.0	581.8	608.5	641.9	652.0	658.7	668.7	648.6	628.6
75°	488.1	491.5	511.5	535.0	558.4	591.8	601.8	605.2	615.2	591.8	571.7
77.5°	448.0	451.4	468.1	488.1	511.5	538.3	548.3	555.0	558.4	538.3	518.2
80°	407.9	411.2	424.6	444.7	464.7	491.5	498.2	501.5	508.2	484.8	471.4
82.5°	371.1	371.1	381.2	397.9	417.9	441.3	451.4	454.7	458.1	438.0	424.6
85°	327.7	327.7	337.7	354.4	371.1	394.5	404.6	407.9	407.9	391.2	377.8
87.5°	290.9	290.9	297.6	310.9	324.3	347.7	357.8	364.4	361.1	347.7	334.3
90°	254.1	254.1	260.8	270.8	284.2	304.3	314.3	317.6	317.6	300.9	290.9
92.5°	220.7	220.7	227.4	237.4	247.4	264.1	274.2	280.9	280.9	267.5	257.4
95°	190.6	190.6	193.9	204.0	214.0	227.4	234.0	240.7	240.7	234.0	224.0
97.5°	163.8	163.8	167.2	173.9	180.5	190.6	197.3	204.0	204.0	200.6	193.9
100°	143.8	143.8	143.8	147.1	153.8	157.1	163.8	170.5	170.5	167.2	163.8
102.5°	130.4	130.4	130.4	130.4	130.4	133.7	133.7	137.1	137.1	137.1	133.7
105°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	120.4	117.0	113.7
107.5°	123.7	120.4	120.4	120.4	120.4	117.0	117.0	117.0	113.7	110.3	107.0
110°	123.7	123.7	123.7	123.7	120.4	117.0	117.0	113.7	110.3	107.0	103.6

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CATALOG NUMBER: CRTK2-C01H-5TLD-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	130.4	130.4	130.4	127.1	123.7	123.7	120.4	117.0	113.7	107.0	103.6
115°	140.4	140.4	140.4	140.4	137.1	130.4	127.1	123.7	117.0	113.7	110.3
117.5°	157.1	157.1	157.1	157.1	150.5	147.1	140.4	137.1	130.4	123.7	120.4
120°	177.2	177.2	180.5	180.5	177.2	170.5	160.5	157.1	150.5	140.4	133.7
122.5°	207.3	204.0	210.6	210.6	210.6	204.0	190.6	183.9	177.2	163.8	157.1
125°	237.4	237.4	244.1	250.8	254.1	244.1	230.7	220.7	210.6	193.9	183.9
127.5°	270.8	270.8	284.2	297.6	304.3	294.2	277.5	267.5	254.1	230.7	217.3
130°	304.3	304.3	324.3	344.4	354.4	347.7	331.0	317.6	300.9	270.8	254.1
132.5°	334.3	334.3	357.8	384.5	397.9	394.5	377.8	364.4	351.1	314.3	290.9
135°	357.8	361.1	391.2	421.3	438.0	441.3	424.6	407.9	391.2	351.1	324.3
137.5°	371.1	377.8	407.9	444.7	461.4	471.4	461.4	444.7	424.6	381.2	351.1
140°	374.5	377.8	411.2	448.0	464.7	478.1	478.1	458.1	441.3	397.9	364.4
142.5°	364.4	367.8	401.2	434.6	451.4	468.1	471.4	454.7	438.0	397.9	364.4
145°	341.0	347.7	377.8	404.6	428.0	444.7	451.4	441.3	421.3	384.5	354.4
147.5°	310.9	314.3	341.0	364.4	387.8	407.9	417.9	407.9	391.2	357.8	331.0
150°	264.1	267.5	287.5	307.6	334.3	354.4	367.8	361.1	347.7	321.0	294.2
152.5°	214.0	214.0	230.7	247.4	270.8	290.9	304.3	300.9	290.9	267.5	247.4
155°	163.8	163.8	173.9	187.2	207.3	220.7	234.0	234.0	227.4	210.6	193.9
157.5°	117.0	117.0	127.1	137.1	150.5	163.8	173.9	173.9	170.5	157.1	147.1
160°	76.9	76.9	83.6	90.3	103.6	110.3	120.4	120.4	117.0	110.3	103.6
162.5°	40.1	40.1	46.8	50.2	60.2	66.9	73.6	76.9	76.9	70.2	66.9
165°	13.4	13.4	13.4	16.7	23.4	30.1	33.4	36.8	36.8	33.4	33.4
167.5°	3.3	3.3	3.3	3.3	3.3	3.3	6.7	10.0	10.0	10.0	10.0
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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
0°	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1	6406.1
2.5°	5948.0	6252.3	6513.1	6787.2	7091.5	7348.9	7609.7	7753.5	7877.2	7853.8	7853.8
5°	5597.0	5901.2	6218.8	6553.2	6964.4	7385.7	7786.9	8074.5	8224.9	8248.3	8245.0
7.5°	5015.2	5299.4	5600.3	5971.4	6452.9	6967.8	7512.8	7964.1	8248.3	8301.8	8311.8
10°	4440.1	4654.1	4908.2	5162.3	5593.6	6065.0	6553.2	6914.3	7191.8	7231.9	7278.7
12.5°	4095.7	4212.8	4376.6	4553.8	4834.6	5179.0	5580.2	5787.5	5964.7	5984.8	6028.3
15°	3918.5	3975.4	4015.5	4079.0	4246.2	4460.2	4644.1	4848.0	4921.6	4971.7	4995.1
17.5°	3848.3	3841.6	3801.5	3801.5	3814.9	3895.1	4012.2	4082.4	4129.2	4152.6	4159.3
20°	3704.6	3644.4	3564.1	3457.1	3400.3	3373.6	3403.6	3420.4	3407.0	3390.3	3420.4
22.5°	3554.1	3427.0	3283.3	3159.6	3012.5	2922.2	2835.3	2805.2	2768.4	2791.8	2791.8
25°	3507.3	3283.3	3052.6	2845.3	2624.6	2474.2	2313.7	2256.8	2200.0	2246.8	2246.8
27.5°	2072.9	2072.9	1942.6	1768.7	1578.1	1497.9	1434.3	1397.6	1374.2	1384.2	1384.2
30°	1855.6	1768.7	1688.4	1578.1	1431.0	1334.0	1250.5	1200.3	1176.9	1170.2	1176.9
32.5°	1721.9	1655.0	1558.1	1447.7	1317.3	1210.3	1116.7	1066.6	1029.8	1036.5	1039.8
35°	1541.3	1471.1	1387.5	1283.9	1173.6	1073.3	989.7	939.5	906.1	906.1	909.4
37.5°	1427.7	1357.4	1277.2	1183.6	1076.6	979.6	902.7	842.6	812.5	809.1	809.1
40°	1357.4	1287.2	1213.7	1120.1	1019.8	919.5	842.6	789.1	752.3	752.3	755.6
42.5°	1230.4	1163.5	1100.0	1016.4	926.1	839.2	765.7	718.8	682.1	675.4	682.1
45°	1036.5	999.7	949.5	892.7	815.8	745.6	678.7	638.6	608.5	608.5	605.2
47.5°	949.5	912.8	859.3	802.4	738.9	668.7	615.2	578.4	551.7	551.7	551.7
50°	916.1	876.0	809.1	745.6	672.0	611.9	565.0	528.3	508.2	508.2	504.9
52.5°	932.8	869.3	782.4	692.1	621.9	561.7	514.9	478.1	461.4	461.4	458.1
55°	1023.1	909.4	782.4	672.0	588.4	521.6	474.8	434.6	417.9	417.9	417.9
57.5°	1059.9	932.8	775.7	652.0	558.4	488.1	431.3	394.5	377.8	377.8	374.5
60°	993.0	886.0	742.2	625.2	535.0	464.7	411.2	374.5	354.4	354.4	351.1
62.5°	845.9	769.0	658.7	571.7	501.5	438.0	391.2	354.4	337.7	337.7	337.7
65°	759.0	692.1	605.2	528.3	464.7	411.2	367.8	337.7	321.0	321.0	321.0
67.5°	708.8	652.0	565.0	491.5	428.0	377.8	337.7	310.9	297.6	294.2	297.6
70°	655.3	595.1	514.9	444.7	387.8	341.0	304.3	277.5	264.1	264.1	264.1
72.5°	598.5	541.6	464.7	401.2	344.4	307.6	270.8	247.4	234.0	234.0	230.7
75°	545.0	488.1	414.6	354.4	307.6	270.8	240.7	220.7	207.3	207.3	207.3
77.5°	494.8	441.3	371.1	317.6	274.2	244.1	214.0	197.3	187.2	187.2	183.9
80°	448.0	397.9	331.0	284.2	244.1	217.3	190.6	177.2	167.2	167.2	167.2
82.5°	401.2	354.4	294.2	250.8	217.3	190.6	170.5	157.1	150.5	147.1	150.5
85°	357.8	314.3	260.8	220.7	190.6	167.2	150.5	137.1	130.4	130.4	130.4
87.5°	317.6	277.5	230.7	193.9	167.2	147.1	130.4	120.4	117.0	113.7	113.7
90°	274.2	237.4	197.3	167.2	143.8	127.1	110.3	103.6	97.0	97.0	97.0
92.5°	244.1	214.0	177.2	150.5	130.4	117.0	103.6	97.0	90.3	90.3	90.3
95°	214.0	187.2	157.1	137.1	120.4	107.0	97.0	90.3	86.9	86.9	86.9
97.5°	183.9	163.8	140.4	123.7	110.3	100.3	90.3	83.6	80.2	80.2	80.2
100°	153.8	140.4	123.7	110.3	100.3	90.3	80.2	76.9	73.6	73.6	73.6
102.5°	127.1	117.0	103.6	93.6	83.6	76.9	70.2	66.9	63.5	63.5	63.5
105°	110.3	103.6	93.6	83.6	76.9	70.2	63.5	56.8	56.8	56.8	56.8
107.5°	103.6	93.6	86.9	80.2	73.6	63.5	60.2	53.5	50.2	50.2	50.2
110°	100.3	93.6	86.9	76.9	70.2	63.5	56.8	50.2	46.8	46.8	46.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	100.3	93.6	86.9	80.2	73.6	63.5	60.2	46.8	43.5	43.5	43.5
115°	107.0	100.3	90.3	83.6	73.6	66.9	60.2	46.8	43.5	43.5	43.5
117.5°	113.7	107.0	97.0	90.3	80.2	70.2	60.2	46.8	43.5	43.5	43.5
120°	130.4	120.4	107.0	97.0	86.9	73.6	63.5	46.8	40.1	43.5	43.5
122.5°	147.1	137.1	120.4	107.0	93.6	80.2	63.5	46.8	40.1	43.5	43.5
125°	173.9	157.1	137.1	120.4	100.3	83.6	66.9	46.8	36.8	40.1	43.5
127.5°	204.0	183.9	157.1	133.7	110.3	86.9	66.9	46.8	36.8	40.1	40.1
130°	237.4	210.6	177.2	143.8	117.0	90.3	66.9	46.8	36.8	40.1	40.1
132.5°	270.8	234.0	193.9	157.1	123.7	93.6	66.9	43.5	36.8	36.8	36.8
135°	297.6	254.1	207.3	163.8	127.1	93.6	63.5	43.5	33.4	33.4	33.4
137.5°	321.0	270.8	217.3	167.2	127.1	90.3	60.2	40.1	30.1	30.1	30.1
140°	334.3	277.5	220.7	163.8	120.4	86.9	56.8	36.8	26.7	26.7	26.7
142.5°	334.3	274.2	214.0	160.5	113.7	80.2	50.2	30.1	23.4	23.4	23.4
145°	321.0	260.8	204.0	150.5	103.6	70.2	43.5	26.7	20.1	20.1	20.1
147.5°	300.9	240.7	187.2	137.1	93.6	60.2	36.8	23.4	16.7	16.7	16.7
150°	267.5	214.0	163.8	117.0	80.2	50.2	30.1	20.1	13.4	13.4	13.4
152.5°	224.0	177.2	137.1	97.0	66.9	40.1	26.7	13.4	10.0	10.0	10.0
155°	177.2	140.4	107.0	76.9	50.2	30.1	20.1	13.4	6.7	6.7	6.7
157.5°	133.7	103.6	80.2	56.8	36.8	23.4	13.4	10.0	6.7	6.7	6.7
160°	93.6	73.6	53.5	36.8	23.4	16.7	10.0	6.7	3.3	3.3	3.3
162.5°	60.2	46.8	33.4	23.4	13.4	10.0	6.7	3.3	3.3	3.3	0.0
165°	30.1	23.4	16.7	10.0	6.7	3.3	3.3	3.3	0.0	0.0	0.0
167.5°	6.7	6.7	6.7	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)