

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: P691781

Luminaire Tested: **CRTK2-C01H-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691781
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-T3-7030-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: 7440 lumens
Efficiency: N/A
Efficacy: 99.3 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



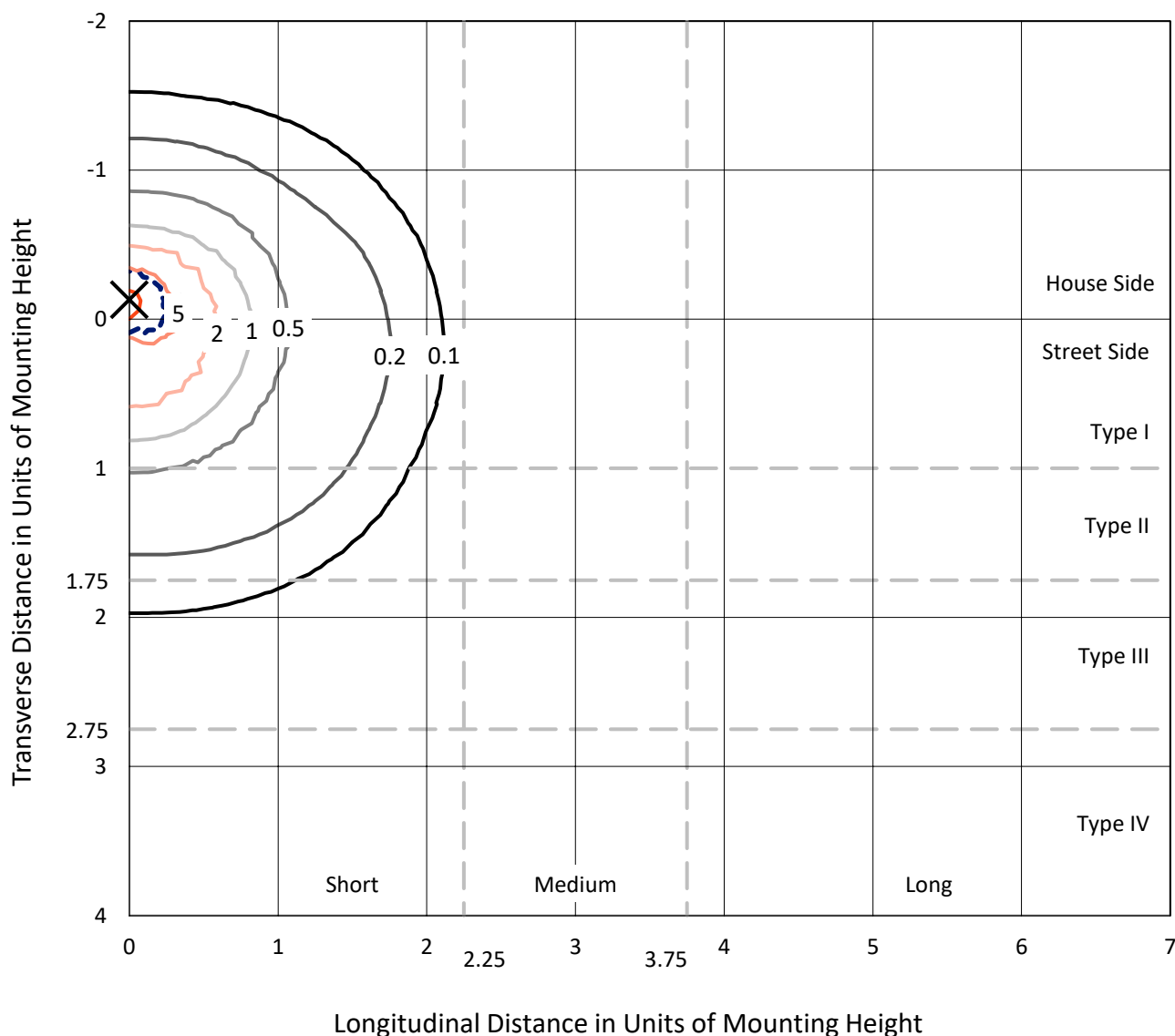
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



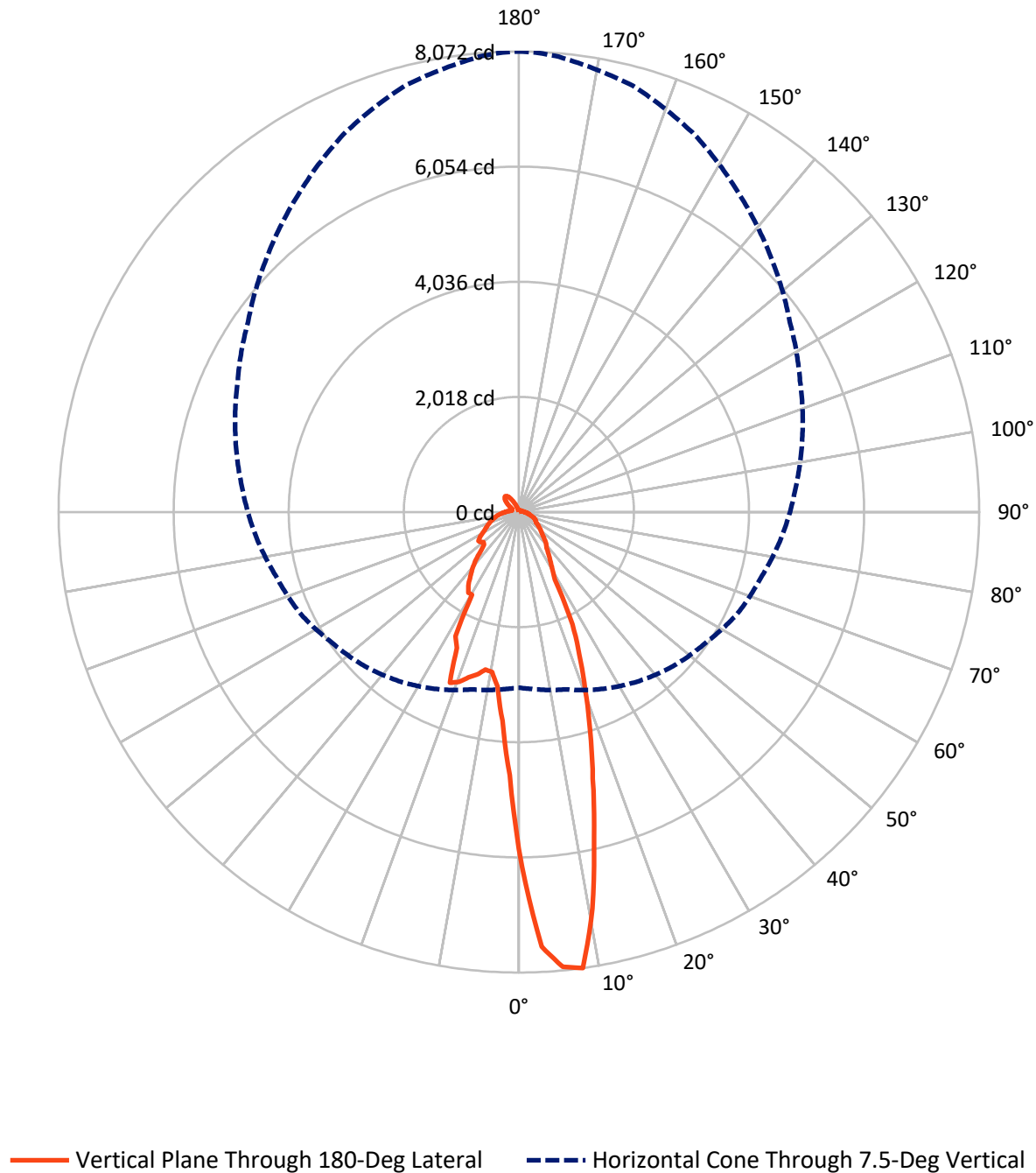
Based on 25 foot mounting height. Maximum calculated value = 12.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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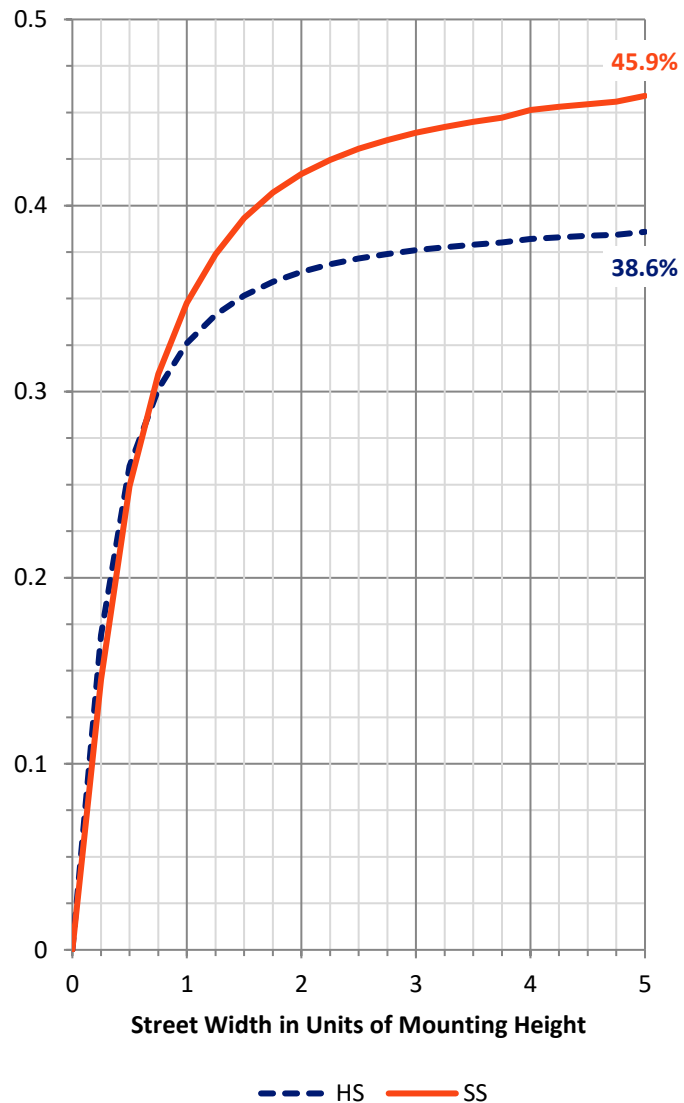
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2945.6	307.2	3252.8
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	3512.6	674.6	4187.2
	% Fixture	47.2	9.1	56.3
Total	Lumens	6458.2	981.7	7440.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.4	6.7
10°-20°	1066.4	14.3
20°-30°	1177.5	15.8
30°-40°	854.0	11.5
40°-50°	719.5	9.7
50°-60°	734.6	9.9
60°-70°	626.0	8.4
70°-80°	466.7	6.3
80°-90°	315.0	4.2
90°-100°	188.3	2.5
100°-110°	108.3	1.5
110°-120°	101.2	1.4
120°-130°	147.5	2.0
130°-140°	200.4	2.7
140°-150°	163.1	2.2
150°-160°	65.1	0.9
160°-170°	7.9	0.1
170°-180°	0.0	0.0
0°-90°	6458.2	86.8
0°-180°	7440.0	100.0

Coefficient of Utilization



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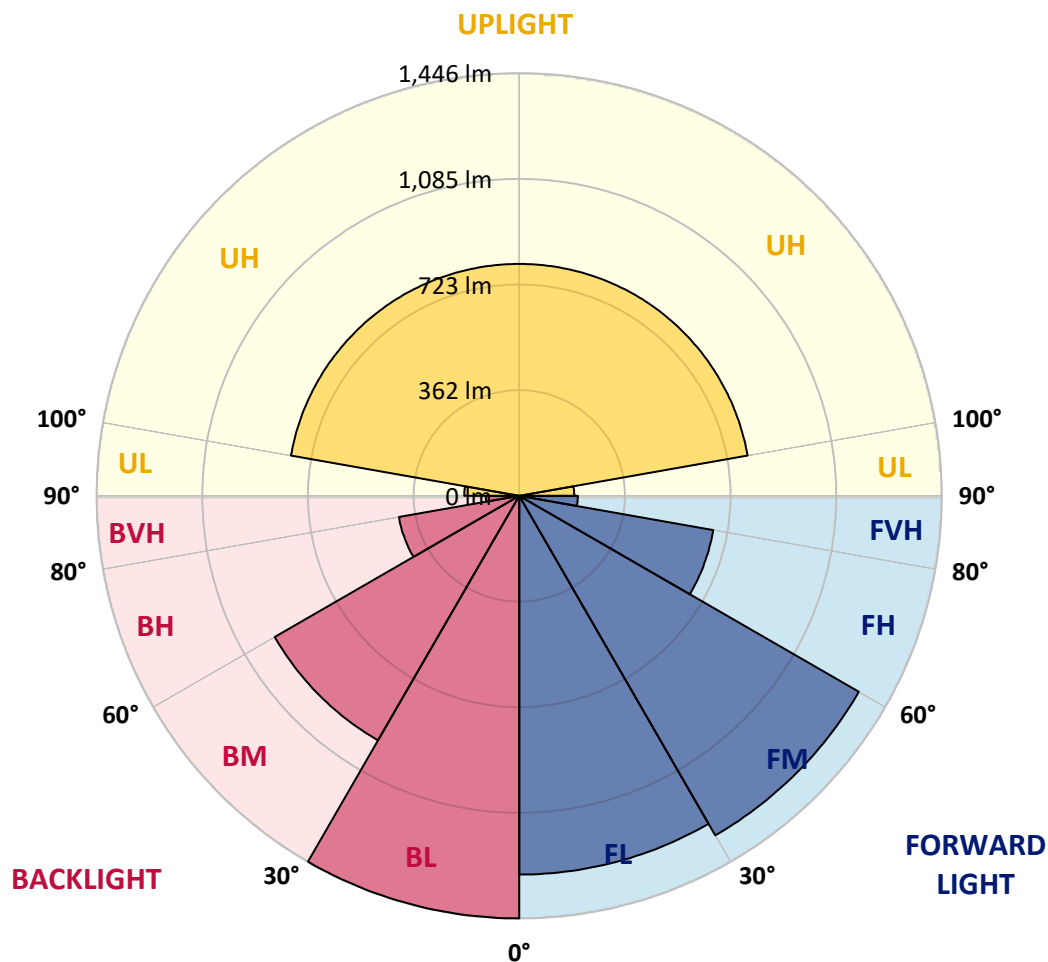
CATALOG NUMBER: CRTK2-C01H-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1296.1	17.4			
FM	(30°-60°)	1341.8	18.0			
FH	(60°-80°)	674.4	9.1			G1/1800
FVH	(80°-90°)	200.4	2.7			G2/225
BL	(0°-30°)	1446.3	19.4	B3/2500		
BM	(30°-60°)	966.4	13.0	B1/1000		
BH	(60°-80°)	418.3	5.6	B1/500		G1/500
BVH	(80°-90°)	114.6	1.5			G2/225
UL	(90°-100°)	188.3	2.5		U3/500	
UH	(100°-180°)	793.4	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°	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3
2.5°	4617.2	4724.4	4734.1	4851.0	4938.7	5019.9	5078.3	5247.2	5419.3	5581.6	5675.8
5°	3665.9	3717.8	3812.0	3938.6	4101.0	4227.6	4409.4	4646.5	4873.8	5159.5	5299.1
7.5°	3078.2	3117.1	3217.8	3422.3	3626.9	3821.7	3997.1	4224.4	4399.7	4636.7	4753.6
10°	2844.4	2867.1	2951.5	3094.4	3289.2	3451.6	3604.2	3776.3	3932.1	4149.7	4234.1
12.5°	2821.7	2831.4	2899.6	3000.2	3113.9	3247.0	3373.6	3519.8	3685.4	3857.4	3922.4
15°	2945.0	2938.5	2961.3	3019.7	3084.7	3188.6	3305.5	3438.6	3597.7	3724.3	3776.3
17.5°	3032.7	3029.5	3071.7	3097.6	3159.3	3221.0	3337.9	3441.8	3597.7	3698.3	3727.6
20°	3159.3	3165.8	3178.8	3227.5	3253.5	3295.7	3367.1	3428.8	3562.0	3620.4	3613.9
22.5°	3227.5	3224.3	3279.5	3393.1	3422.3	3445.1	3458.1	3484.0	3558.7	3555.5	3506.8
25°	2617.1	2623.6	2636.6	2734.0	2857.4	3058.7	3224.3	3484.0	3623.7	3571.7	3467.8
27.5°	2445.0	2425.5	2357.3	2302.1	2136.5	2026.1	1922.2	1876.8	1899.5	1938.5	2045.6
30°	1665.7	1669.0	1675.5	1685.2	1701.4	1743.6	1772.9	1776.1	1798.8	1863.8	1841.1
32.5°	1669.0	1672.2	1662.5	1672.2	1665.7	1682.0	1678.7	1665.7	1685.2	1743.6	1720.9
35°	1568.3	1561.8	1568.3	1571.6	1535.8	1522.8	1519.6	1509.9	1522.8	1552.1	1532.6
37.5°	1412.4	1409.2	1438.4	1454.7	1425.4	1425.4	1418.9	1406.0	1415.7	1441.7	1415.7
40°	1276.1	1279.3	1321.5	1347.5	1337.8	1347.5	1357.2	1354.0	1376.7	1386.5	1354.0
42.5°	1126.7	1120.2	1162.4	1181.9	1162.4	1168.9	1165.7	1168.9	1214.4	1233.9	1211.1
45°	941.6	951.4	970.9	996.8	993.6	1003.3	1000.1	1006.6	1035.8	1045.5	1029.3
47.5°	837.7	844.2	867.0	896.2	912.4	928.6	928.6	931.9	951.4	954.6	938.4
50°	815.0	821.5	850.7	883.2	909.2	928.6	938.4	935.1	944.9	938.4	915.7
52.5°	854.0	854.0	899.4	938.4	970.9	1006.6	1019.6	1006.6	1006.6	980.6	944.9
55°	870.2	873.4	928.6	996.8	1058.5	1123.5	1165.7	1162.4	1159.2	1117.0	1052.0
57.5°	818.2	828.0	883.2	961.1	1045.5	1149.4	1211.1	1220.9	1220.9	1165.7	1094.2
60°	743.6	750.1	792.3	857.2	941.6	1019.6	1084.5	1091.0	1110.5	1081.3	1016.3
62.5°	681.9	688.4	724.1	772.8	834.5	883.2	902.7	902.7	912.4	902.7	857.2
65°	636.4	639.7	668.9	711.1	753.3	792.3	811.8	805.3	818.2	805.3	769.5
67.5°	594.2	594.2	620.2	652.6	691.6	737.1	750.1	756.6	769.5	753.3	720.8
70°	552.0	555.2	581.2	607.2	642.9	675.4	688.4	691.6	707.8	688.4	665.6
72.5°	516.3	516.3	539.0	565.0	591.0	623.4	633.2	639.7	649.4	629.9	610.4
75°	474.1	477.3	496.8	519.5	542.3	574.7	584.5	587.7	597.4	574.7	555.2
77.5°	435.1	438.3	454.6	474.1	496.8	522.8	532.5	539.0	542.3	522.8	503.3
80°	396.1	399.4	412.4	431.9	451.3	477.3	483.8	487.1	493.5	470.8	457.8
82.5°	360.4	360.4	370.2	386.4	405.9	428.6	438.3	441.6	444.8	425.4	412.4
85°	318.2	318.2	327.9	344.2	360.4	383.1	392.9	396.1	396.1	379.9	366.9
87.5°	282.5	282.5	289.0	302.0	315.0	337.7	347.4	353.9	350.7	337.7	324.7
90°	246.8	246.8	253.3	263.0	276.0	295.5	305.2	308.5	308.5	292.2	282.5
92.5°	214.3	214.3	220.8	230.5	240.3	256.5	266.3	272.7	272.7	259.8	250.0
95°	185.1	185.1	188.3	198.1	207.8	220.8	227.3	233.8	233.8	227.3	217.5
97.5°	159.1	159.1	162.4	168.8	175.3	185.1	191.6	198.1	198.1	194.8	188.3
100°	139.6	139.6	139.6	142.9	149.4	152.6	159.1	165.6	165.6	162.4	159.1
102.5°	126.6	126.6	126.6	126.6	126.6	129.9	129.9	133.1	133.1	133.1	129.9
105°	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	116.9	113.6	110.4
107.5°	120.1	116.9	116.9	116.9	116.9	113.6	113.6	113.6	110.4	107.2	103.9
110°	120.1	120.1	120.1	120.1	116.9	113.6	113.6	110.4	107.2	103.9	100.7



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CATALOG NUMBER: CRTK2-C01H-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	126.6	126.6	126.6	123.4	120.1	120.1	116.9	113.6	110.4	103.9	100.7
115°	136.4	136.4	136.4	136.4	133.1	126.6	123.4	120.1	113.6	110.4	107.2
117.5°	152.6	152.6	152.6	152.6	146.1	142.9	136.4	133.1	126.6	120.1	116.9
120°	172.1	172.1	175.3	175.3	172.1	165.6	155.9	152.6	146.1	136.4	129.9
122.5°	201.3	198.1	204.6	204.6	204.6	198.1	185.1	178.6	172.1	159.1	152.6
125°	230.5	230.5	237.0	243.5	246.8	237.0	224.0	214.3	204.6	188.3	178.6
127.5°	263.0	263.0	276.0	289.0	295.5	285.7	269.5	259.8	246.8	224.0	211.1
130°	295.5	295.5	315.0	334.4	344.2	337.7	321.5	308.5	292.2	263.0	246.8
132.5°	324.7	324.7	347.4	373.4	386.4	383.1	366.9	353.9	340.9	305.2	282.5
135°	347.4	350.7	379.9	409.1	425.4	428.6	412.4	396.1	379.9	340.9	315.0
137.5°	360.4	366.9	396.1	431.9	448.1	457.8	448.1	431.9	412.4	370.2	340.9
140°	363.7	366.9	399.4	435.1	451.3	464.3	464.3	444.8	428.6	386.4	353.9
142.5°	353.9	357.2	389.6	422.1	438.3	454.6	457.8	441.6	425.4	386.4	353.9
145°	331.2	337.7	366.9	392.9	415.6	431.9	438.3	428.6	409.1	373.4	344.2
147.5°	302.0	305.2	331.2	353.9	376.7	396.1	405.9	396.1	379.9	347.4	321.5
150°	256.5	259.8	279.2	298.7	324.7	344.2	357.2	350.7	337.7	311.7	285.7
152.5°	207.8	207.8	224.0	240.3	263.0	282.5	295.5	292.2	282.5	259.8	240.3
155°	159.1	159.1	168.8	181.8	201.3	214.3	227.3	227.3	220.8	204.6	188.3
157.5°	113.6	113.6	123.4	133.1	146.1	159.1	168.8	168.8	165.6	152.6	142.9
160°	74.7	74.7	81.2	87.7	100.7	107.2	116.9	116.9	113.6	107.2	100.7
162.5°	39.0	39.0	45.5	48.7	58.4	64.9	71.4	74.7	74.7	68.2	64.9
165°	13.0	13.0	13.0	16.2	22.7	29.2	32.5	35.7	35.7	32.5	32.5
167.5°	3.2	3.2	3.2	3.2	3.2	3.2	6.5	9.7	9.7	9.7	9.7
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°	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3	6221.3
2.5°	5776.4	6071.9	6325.2	6591.4	6886.9	7136.9	7390.2	7529.8	7650.0	7627.2	7627.2
5°	5435.5	5731.0	6039.4	6364.1	6763.5	7172.6	7562.3	7841.5	7987.6	8010.4	8007.1
7.5°	4870.5	5146.5	5438.7	5799.2	6266.7	6766.8	7296.0	7734.4	8010.4	8062.3	8072.1
10°	4312.0	4519.8	4766.6	5013.4	5432.2	5890.1	6364.1	6714.8	6984.3	7023.3	7068.7
12.5°	3977.6	4091.2	4250.3	4422.4	4695.2	5029.6	5419.3	5620.6	5792.7	5812.1	5854.4
15°	3805.5	3860.7	3899.7	3961.4	4123.7	4331.5	4510.1	4708.2	4779.6	4828.3	4851.0
17.5°	3737.3	3730.8	3691.8	3691.8	3704.8	3782.8	3896.4	3964.6	4010.1	4032.8	4039.3
20°	3597.7	3539.2	3461.3	3357.4	3302.2	3276.2	3305.5	3321.7	3308.7	3292.5	3321.7
22.5°	3451.6	3328.2	3188.6	3068.4	2925.6	2837.9	2753.5	2724.2	2688.5	2711.3	2711.3
25°	3406.1	3188.6	2964.5	2763.2	2548.9	2402.8	2246.9	2191.7	2136.5	2182.0	2182.0
27.5°	2013.1	2013.1	1886.5	1717.7	1532.6	1454.7	1393.0	1357.2	1334.5	1344.3	1344.3
30°	1802.1	1717.7	1639.7	1532.6	1389.7	1295.6	1214.4	1165.7	1142.9	1136.5	1142.9
32.5°	1672.2	1607.3	1513.1	1406.0	1279.3	1175.4	1084.5	1035.8	1000.1	1006.6	1009.8
35°	1496.9	1428.7	1347.5	1246.9	1139.7	1042.3	961.1	912.4	879.9	879.9	883.2
37.5°	1386.5	1318.3	1240.4	1149.4	1045.5	951.4	876.7	818.2	789.0	785.8	785.8
40°	1318.3	1250.1	1178.7	1087.7	990.3	892.9	818.2	766.3	730.6	730.6	733.8
42.5°	1194.9	1130.0	1068.3	987.1	899.4	815.0	743.6	698.1	662.4	655.9	662.4
45°	1006.6	970.9	922.2	867.0	792.3	724.1	659.1	620.2	591.0	591.0	587.7
47.5°	922.2	886.4	834.5	779.3	717.6	649.4	597.4	561.7	535.8	535.8	535.8
50°	889.7	850.7	785.8	724.1	652.6	594.2	548.7	513.0	493.5	493.5	490.3
52.5°	905.9	844.2	759.8	672.1	603.9	545.5	500.0	464.3	448.1	448.1	444.8
55°	993.6	883.2	759.8	652.6	571.5	506.5	461.1	422.1	405.9	405.9	405.9
57.5°	1029.3	905.9	753.3	633.2	542.3	474.1	418.9	383.1	366.9	366.9	363.7
60°	964.4	860.5	720.8	607.2	519.5	451.3	399.4	363.7	344.2	344.2	340.9
62.5°	821.5	746.8	639.7	555.2	487.1	425.4	379.9	344.2	327.9	327.9	327.9
65°	737.1	672.1	587.7	513.0	451.3	399.4	357.2	327.9	311.7	311.7	311.7
67.5°	688.4	633.2	548.7	477.3	415.6	366.9	327.9	302.0	289.0	285.7	289.0
70°	636.4	578.0	500.0	431.9	376.7	331.2	295.5	269.5	256.5	256.5	256.5
72.5°	581.2	526.0	451.3	389.6	334.4	298.7	263.0	240.3	227.3	227.3	224.0
75°	529.3	474.1	402.6	344.2	298.7	263.0	233.8	214.3	201.3	201.3	201.3
77.5°	480.6	428.6	360.4	308.5	266.3	237.0	207.8	191.6	181.8	181.8	178.6
80°	435.1	386.4	321.5	276.0	237.0	211.1	185.1	172.1	162.4	162.4	162.4
82.5°	389.6	344.2	285.7	243.5	211.1	185.1	165.6	152.6	146.1	142.9	146.1
85°	347.4	305.2	253.3	214.3	185.1	162.4	146.1	133.1	126.6	126.6	126.6
87.5°	308.5	269.5	224.0	188.3	162.4	142.9	126.6	116.9	113.6	110.4	110.4
90°	266.3	230.5	191.6	162.4	139.6	123.4	107.2	100.7	94.2	94.2	94.2
92.5°	237.0	207.8	172.1	146.1	126.6	113.6	100.7	94.2	87.7	87.7	87.7
95°	207.8	181.8	152.6	133.1	116.9	103.9	94.2	87.7	84.4	84.4	84.4
97.5°	178.6	159.1	136.4	120.1	107.2	97.4	87.7	81.2	77.9	77.9	77.9
100°	149.4	136.4	120.1	107.2	97.4	87.7	77.9	74.7	71.4	71.4	71.4
102.5°	123.4	113.6	100.7	90.9	81.2	74.7	68.2	64.9	61.7	61.7	61.7
105°	107.2	100.7	90.9	81.2	74.7	68.2	61.7	55.2	55.2	55.2	55.2
107.5°	100.7	90.9	84.4	77.9	71.4	61.7	58.4	52.0	48.7	48.7	48.7
110°	97.4	90.9	84.4	74.7	68.2	61.7	55.2	48.7	45.5	45.5	45.5

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	97.4	90.9	84.4	77.9	71.4	61.7	58.4	45.5	42.2	42.2	42.2
115°	103.9	97.4	87.7	81.2	71.4	64.9	58.4	45.5	42.2	42.2	42.2
117.5°	110.4	103.9	94.2	87.7	77.9	68.2	58.4	45.5	42.2	42.2	42.2
120°	126.6	116.9	103.9	94.2	84.4	71.4	61.7	45.5	39.0	42.2	42.2
122.5°	142.9	133.1	116.9	103.9	90.9	77.9	61.7	45.5	39.0	42.2	42.2
125°	168.8	152.6	133.1	116.9	97.4	81.2	64.9	45.5	35.7	39.0	42.2
127.5°	198.1	178.6	152.6	129.9	107.2	84.4	64.9	45.5	35.7	39.0	39.0
130°	230.5	204.6	172.1	139.6	113.6	87.7	64.9	45.5	35.7	39.0	39.0
132.5°	263.0	227.3	188.3	152.6	120.1	90.9	64.9	42.2	35.7	35.7	35.7
135°	289.0	246.8	201.3	159.1	123.4	90.9	61.7	42.2	32.5	32.5	32.5
137.5°	311.7	263.0	211.1	162.4	123.4	87.7	58.4	39.0	29.2	29.2	29.2
140°	324.7	269.5	214.3	159.1	116.9	84.4	55.2	35.7	26.0	26.0	26.0
142.5°	324.7	266.3	207.8	155.9	110.4	77.9	48.7	29.2	22.7	22.7	22.7
145°	311.7	253.3	198.1	146.1	100.7	68.2	42.2	26.0	19.5	19.5	19.5
147.5°	292.2	233.8	181.8	133.1	90.9	58.4	35.7	22.7	16.2	16.2	16.2
150°	259.8	207.8	159.1	113.6	77.9	48.7	29.2	19.5	13.0	13.0	13.0
152.5°	217.5	172.1	133.1	94.2	64.9	39.0	26.0	13.0	9.7	9.7	9.7
155°	172.1	136.4	103.9	74.7	48.7	29.2	19.5	13.0	6.5	6.5	6.5
157.5°	129.9	100.7	77.9	55.2	35.7	22.7	13.0	9.7	6.5	6.5	6.5
160°	90.9	71.4	52.0	35.7	22.7	16.2	9.7	6.5	3.2	3.2	3.2
162.5°	58.4	45.5	32.5	22.7	13.0	9.7	6.5	3.2	3.2	3.2	0.0
165°	29.2	22.7	16.2	9.7	6.5	3.2	3.2	3.2	0.0	0.0	0.0
167.5°	6.5	6.5	6.5	3.2	3.2	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)