

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: P691749

Luminaire Tested: **CRTK2-C01H-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691749
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-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 7294 lumens
Efficiency: N/A
Efficacy: 97.4 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



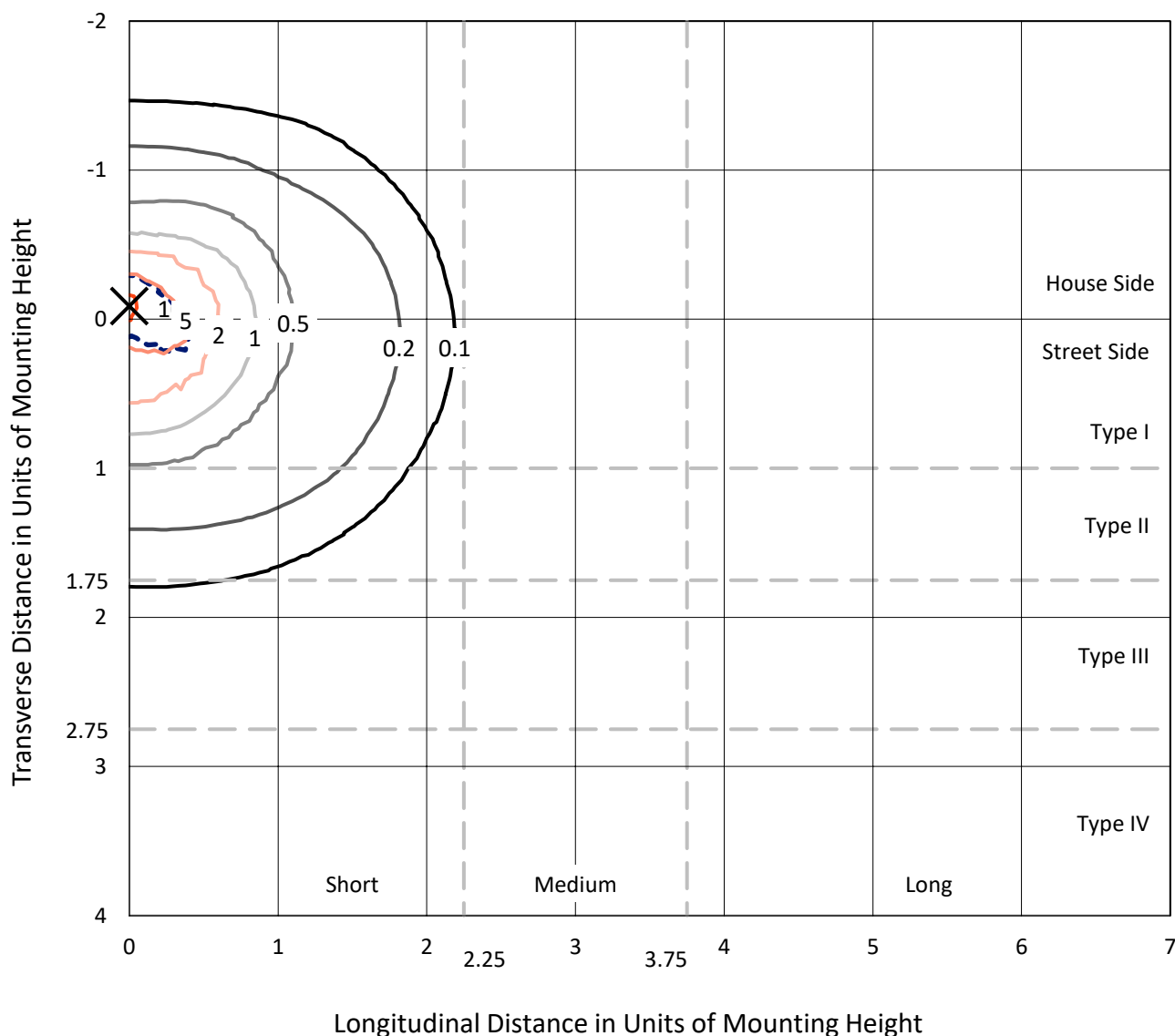
REPORT NUMBER: P691749

CATALOG NUMBER: CRTK2-C01H-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



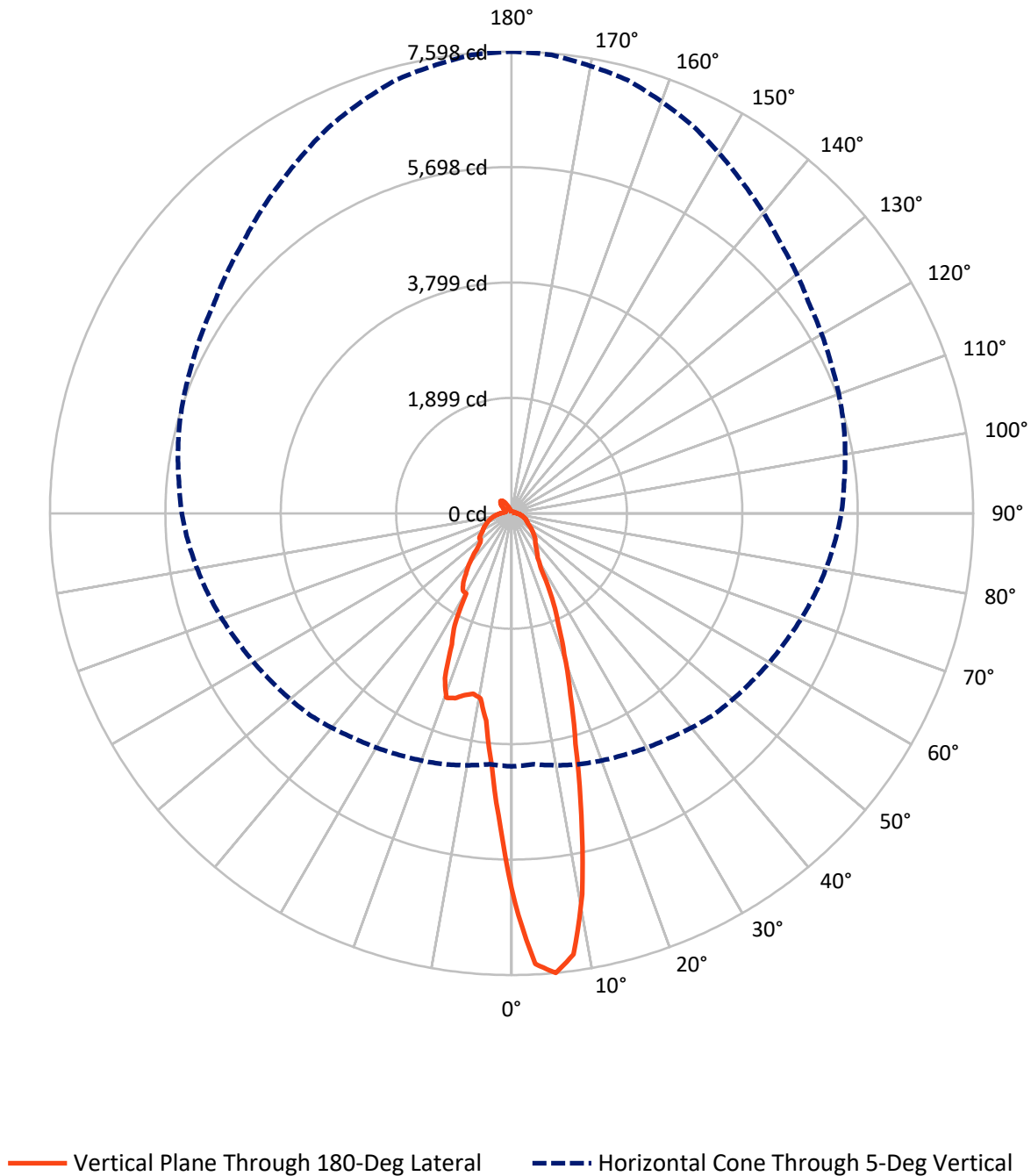
Based on 25 foot mounting height. Maximum calculated value = 11.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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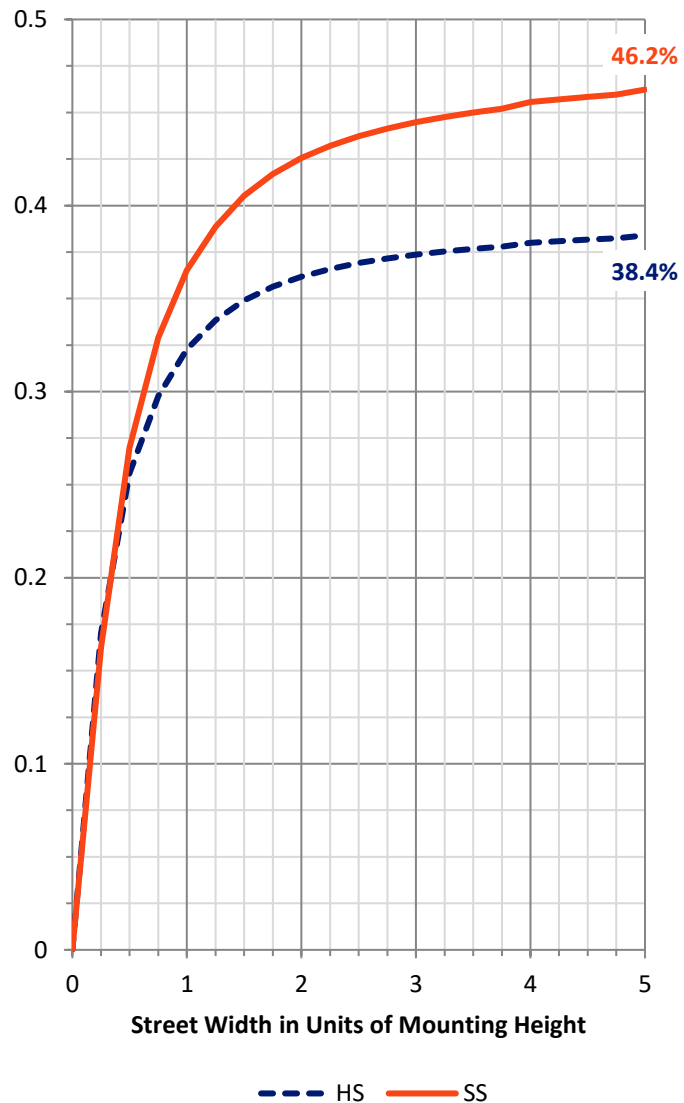
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2874.5	337.5	3211.9
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	3454.7	627.4	4082.0
	% Fixture	47.4	8.6	56.0
Total	Lumens	6329.1	964.8	7294.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.4	6.8
10°-20°	1053.2	14.4
20°-30°	1146.2	15.7
30°-40°	839.0	11.5
40°-50°	705.4	9.7
50°-60°	716.3	9.8
60°-70°	608.9	8.3
70°-80°	454.4	6.2
80°-90°	309.3	4.2
90°-100°	185.7	2.5
100°-110°	106.5	1.5
110°-120°	98.0	1.3
120°-130°	142.4	2.0
130°-140°	195.9	2.7
140°-150°	162.1	2.2
150°-160°	66.0	0.9
160°-170°	8.2	0.1
170°-180°	0.0	0.0
0°-90°	6329.1	86.8
0°-180°	7294.0	100.0

Coefficient of Utilization



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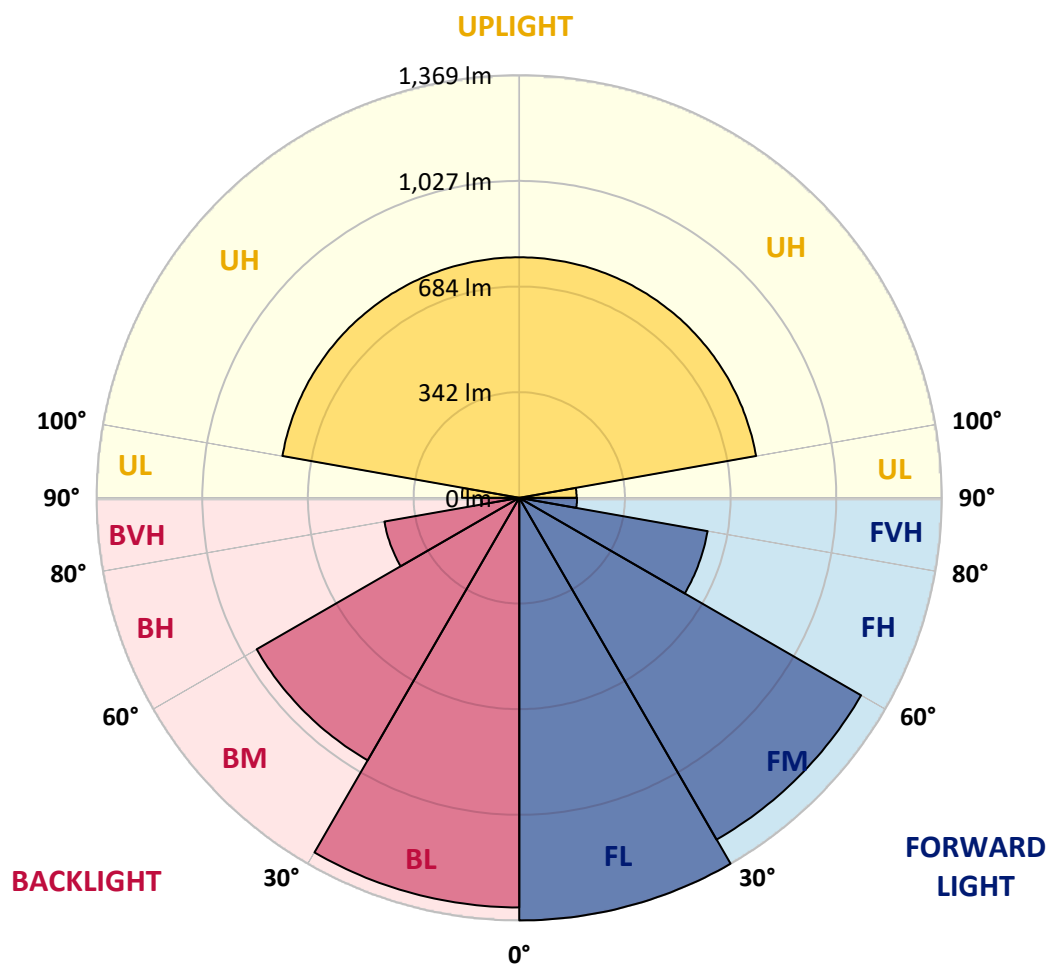
CATALOG NUMBER: CRTK2-C01H-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1369.0	18.8			
FM	(30°-60°)	1278.7	17.5			
FH	(60°-80°)	619.6	8.5			G0/660
FVH	(80°-90°)	187.3	2.6			G2/225
BL	(0°-30°)	1326.8	18.2	B3/2500		
BM	(30°-60°)	982.0	13.5	B1/1000		
BH	(60°-80°)	443.7	6.1	B1/500		G1/500
BVH	(80°-90°)	122.0	1.7			G2/225
UL	(90°-100°)	185.7	2.5		U3/500	
UH	(100°-180°)	779.1	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°	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0
2.5°	5171.1	5161.4	5232.9	5249.1	5255.6	5330.3	5431.0	5499.2	5622.6	5742.8	5791.5
5°	4164.2	4144.7	4274.6	4385.1	4518.3	4693.7	4823.6	4979.5	5164.6	5343.3	5427.8
7.5°	3433.4	3459.3	3644.5	3871.9	4086.2	4294.1	4453.3	4586.5	4693.7	4807.3	4830.1
10°	3089.0	3111.8	3293.7	3511.3	3709.4	3920.6	4057.0	4170.7	4238.9	4323.4	4352.6
12.5°	3033.8	3050.1	3173.5	3326.2	3475.6	3667.2	3839.4	3966.1	4044.0	4112.2	4118.7
15°	3089.0	3095.5	3170.2	3270.9	3400.9	3560.0	3758.2	3901.1	3988.8	4018.0	4011.5
17.5°	3180.0	3180.0	3215.7	3300.2	3423.6	3576.3	3764.7	3910.8	4001.8	4014.8	3988.8
20°	3219.0	3225.5	3248.2	3342.4	3452.8	3592.5	3780.9	3904.3	3975.8	3940.1	3894.6
22.5°	2926.6	2913.6	2975.4	3173.5	3420.4	3670.5	3849.1	3988.8	4027.8	3907.6	3810.1
25°	2367.9	2374.4	2413.4	2510.9	2702.5	2933.1	3329.4	3754.9	4050.5	4005.0	3858.9
27.5°	2065.9	2046.4	2056.1	2072.4	2046.4	1997.6	2043.1	2033.4	2026.9	2143.8	2156.8
30°	1516.9	1520.2	1536.4	1565.6	1627.4	1718.3	1815.7	1871.0	1919.7	2010.6	1997.6
32.5°	1507.2	1510.4	1520.2	1546.1	1578.6	1640.3	1702.1	1724.8	1776.8	1851.5	1828.7
35°	1409.7	1400.0	1426.0	1448.7	1458.4	1484.4	1533.2	1565.6	1598.1	1650.1	1637.1
37.5°	1250.6	1253.8	1305.8	1341.5	1351.3	1387.0	1432.5	1458.4	1494.2	1539.6	1516.9
40°	1114.1	1117.4	1179.1	1218.1	1240.8	1289.5	1357.7	1390.2	1448.7	1484.4	1458.4
42.5°	958.2	971.2	1013.4	1058.9	1071.9	1101.1	1146.6	1188.8	1263.6	1312.3	1296.0
45°	799.1	805.6	834.8	880.3	899.8	932.2	974.5	1013.4	1071.9	1110.9	1107.6
47.5°	704.9	711.4	737.3	776.3	815.3	857.5	903.0	942.0	997.2	1029.7	1016.7
50°	665.9	672.4	704.9	750.3	799.1	854.3	909.5	951.7	1003.7	1023.2	1006.9
52.5°	672.4	672.4	717.9	776.3	844.5	919.2	987.5	1039.4	1081.7	1094.6	1058.9
55°	636.6	646.4	695.1	776.3	880.3	997.2	1114.1	1224.6	1286.3	1273.3	1205.1
57.5°	581.4	591.2	626.9	714.6	825.0	964.7	1130.4	1266.8	1341.5	1351.3	1283.0
60°	548.9	555.4	587.9	656.1	753.6	867.3	1016.7	1127.1	1211.6	1237.6	1188.8
62.5°	519.7	526.2	552.2	604.2	675.6	763.3	847.8	919.2	987.5	1013.4	994.0
65°	487.2	490.5	516.5	561.9	620.4	695.1	766.6	818.5	873.8	890.0	867.3
67.5°	454.7	458.0	480.7	523.0	578.2	646.4	701.6	760.1	815.3	828.3	812.1
70°	425.5	428.8	448.3	487.2	536.0	600.9	652.9	691.9	747.1	760.1	740.6
72.5°	396.3	399.5	419.0	454.7	500.2	558.7	604.2	643.1	688.6	691.9	675.6
75°	367.0	370.3	386.5	419.0	458.0	516.5	558.7	591.2	630.2	630.2	610.7
77.5°	334.6	341.1	354.1	383.3	419.0	474.2	513.2	545.7	578.2	574.9	555.4
80°	305.3	308.6	321.6	347.6	380.0	432.0	471.0	497.0	526.2	523.0	506.7
82.5°	272.8	276.1	285.8	311.8	341.1	389.8	428.8	454.7	480.7	474.2	458.0
85°	240.4	243.6	256.6	276.1	305.3	350.8	386.5	412.5	432.0	425.5	412.5
87.5°	214.4	214.4	224.1	243.6	269.6	311.8	344.3	370.3	386.5	383.3	370.3
90°	185.1	188.4	194.9	211.1	233.9	269.6	302.1	324.8	341.1	334.6	321.6
92.5°	162.4	162.4	168.9	185.1	204.6	237.1	266.4	285.8	298.8	295.6	285.8
95°	139.7	142.9	146.2	159.2	175.4	201.4	227.4	246.9	259.9	256.6	250.1
97.5°	123.4	126.7	129.9	136.4	152.7	168.9	191.6	207.9	220.9	217.6	211.1
100°	113.7	113.7	113.7	120.2	129.9	142.9	159.2	172.2	178.7	181.9	175.4
102.5°	103.9	103.9	107.2	107.2	113.7	120.2	129.9	139.7	142.9	142.9	142.9
105°	100.7	100.7	103.9	103.9	107.2	110.4	116.9	120.2	123.4	123.4	120.2
107.5°	100.7	100.7	100.7	100.7	103.9	107.2	110.4	113.7	113.7	113.7	110.4
110°	103.9	103.9	103.9	103.9	103.9	107.2	107.2	110.4	110.4	107.2	107.2



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CATALOG NUMBER: CRTK2-C01H-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	107.2	107.2	107.2	107.2	107.2	110.4	110.4	110.4	110.4	107.2	107.2
115°	113.7	113.7	113.7	116.9	116.9	116.9	116.9	116.9	116.9	113.7	110.4
117.5°	126.7	126.7	126.7	126.7	129.9	129.9	129.9	129.9	129.9	123.4	123.4
120°	142.9	139.7	142.9	146.2	149.4	149.4	149.4	149.4	149.4	142.9	139.7
122.5°	159.2	159.2	162.4	168.9	175.4	178.7	175.4	175.4	175.4	165.7	162.4
125°	178.7	178.7	188.4	201.4	211.1	214.4	211.1	211.1	211.1	201.4	194.9
127.5°	201.4	201.4	214.4	233.9	250.1	259.9	256.6	256.6	256.6	240.4	230.6
130°	224.1	224.1	243.6	269.6	295.6	302.1	305.3	308.6	308.6	289.1	276.1
132.5°	240.4	243.6	266.4	302.1	334.6	344.3	354.1	357.3	357.3	334.6	315.1
135°	256.6	259.9	289.1	331.3	367.0	389.8	399.5	402.8	406.0	380.0	357.3
137.5°	266.4	269.6	302.1	350.8	386.5	415.8	438.5	445.0	445.0	415.8	386.5
140°	266.4	269.6	305.3	350.8	389.8	425.5	451.5	464.5	464.5	435.3	409.3
142.5°	259.9	266.4	298.8	344.3	383.3	419.0	448.3	461.2	461.2	435.3	409.3
145°	246.9	250.1	282.6	321.6	360.6	402.8	435.3	448.3	448.3	422.3	396.3
147.5°	224.1	227.4	253.4	289.1	328.1	370.3	402.8	419.0	415.8	393.0	370.3
150°	194.9	194.9	217.6	246.9	285.8	324.8	357.3	373.5	373.5	350.8	331.3
152.5°	159.2	159.2	175.4	198.1	230.6	269.6	295.6	311.8	311.8	295.6	279.3
155°	123.4	123.4	136.4	152.7	178.7	207.9	227.4	243.6	243.6	230.6	217.6
157.5°	87.7	87.7	100.7	113.7	133.2	155.9	172.2	181.9	185.1	172.2	165.7
160°	58.5	58.5	65.0	74.7	90.9	107.2	116.9	126.7	129.9	120.2	116.9
162.5°	32.5	32.5	35.7	45.5	55.2	65.0	74.7	81.2	81.2	78.0	74.7
165°	9.7	9.7	13.0	16.2	22.7	29.2	32.5	35.7	39.0	39.0	35.7
167.5°	0.0	0.0	3.2	3.2	3.2	3.2	6.5	6.5	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°	179°	180°
0°	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0	6412.0
2.5°	5892.2	6074.1	6272.3	6463.9	6697.8	6941.4	7165.5	7318.2	7399.4	7425.4	7425.4
5°	5492.7	5658.4	5804.5	5986.4	6269.0	6636.1	7042.1	7379.9	7571.6	7594.3	7597.6
7.5°	4869.1	5005.5	5158.1	5320.6	5570.7	5898.7	6434.7	6980.4	7292.2	7350.7	7328.0
10°	4359.1	4443.5	4534.5	4596.2	4771.6	5015.2	5379.0	5915.0	6298.3	6343.7	6376.2
12.5°	4122.0	4135.0	4109.0	4122.0	4180.4	4294.1	4472.8	4781.4	5031.5	5073.7	5096.4
15°	4001.8	3936.8	3832.9	3735.4	3683.5	3693.2	3732.2	3858.9	3901.1	3972.6	3940.1
17.5°	3946.6	3800.4	3638.0	3449.6	3332.7	3212.5	3147.5	3124.8	3108.5	3111.8	3141.0
20°	3806.9	3641.2	3381.4	3134.5	2946.1	2780.5	2640.8	2540.1	2484.9	2458.9	2478.4
22.5°	3660.7	3404.1	3098.8	2832.4	2562.8	2351.7	2192.5	2046.4	1965.2	1987.9	1961.9
25°	3664.0	3280.7	2916.9	2566.1	2312.7	2033.4	1780.0	1627.4	1494.2	1520.2	1555.9
27.5°	2309.5	2208.8	1948.9	1744.3	1490.9	1351.3	1224.6	1117.4	1042.7	1045.9	1036.2
30°	1958.7	1854.7	1724.8	1562.4	1370.7	1208.3	1062.2	938.7	867.3	847.8	844.5
32.5°	1809.3	1721.5	1601.4	1442.2	1266.8	1104.4	958.2	844.5	773.1	769.8	769.8
35°	1611.1	1529.9	1429.2	1292.8	1143.4	994.0	857.5	760.1	701.6	701.6	698.4
37.5°	1487.7	1416.2	1318.8	1192.1	1058.9	909.5	789.3	701.6	639.9	636.6	639.9
40°	1422.7	1348.0	1253.8	1133.6	1000.4	857.5	743.8	652.9	607.4	604.2	600.9
42.5°	1292.8	1234.3	1153.1	1042.7	925.7	799.1	691.9	610.7	571.7	568.4	571.7
45°	1097.9	1055.7	1000.4	919.2	821.8	714.6	620.4	558.7	519.7	519.7	519.7
47.5°	1006.9	968.0	906.2	825.0	740.6	639.9	561.9	510.0	474.2	474.2	474.2
50°	984.2	935.5	854.3	763.3	672.4	584.7	513.2	461.2	435.3	432.0	435.3
52.5°	1016.7	942.0	831.5	724.3	623.7	539.2	471.0	422.3	396.3	396.3	396.3
55°	1133.6	997.2	851.0	714.6	594.4	500.2	432.0	383.3	357.3	354.1	357.3
57.5°	1211.6	1039.4	857.5	704.9	574.9	474.2	399.5	347.6	321.6	318.3	321.6
60°	1143.4	1003.7	828.3	678.9	558.7	454.7	376.8	324.8	298.8	295.6	295.6
62.5°	948.5	867.3	740.6	613.9	516.5	425.5	354.1	305.3	279.3	276.1	279.3
65°	841.3	769.8	659.4	558.7	474.2	396.3	334.6	292.3	266.4	266.4	266.4
67.5°	782.8	717.9	613.9	516.5	438.5	367.0	308.6	269.6	246.9	246.9	246.9
70°	714.6	649.6	555.4	467.7	396.3	334.6	282.6	243.6	224.1	220.9	224.1
72.5°	656.1	591.2	503.5	422.3	357.3	302.1	256.6	220.9	204.6	201.4	204.6
75°	591.2	529.5	445.0	373.5	318.3	269.6	230.6	198.1	185.1	181.9	181.9
77.5°	536.0	477.5	399.5	334.6	285.8	240.4	204.6	181.9	168.9	165.7	165.7
80°	487.2	432.0	357.3	298.8	253.4	214.4	185.1	162.4	149.4	149.4	149.4
82.5°	435.3	386.5	318.3	263.1	224.1	191.6	162.4	142.9	133.2	133.2	133.2
85°	393.0	344.3	279.3	233.9	194.9	165.7	142.9	126.7	116.9	116.9	116.9
87.5°	347.6	305.3	246.9	204.6	172.2	146.2	123.4	107.2	103.9	100.7	100.7
90°	302.1	263.1	211.1	175.4	146.2	123.4	103.9	90.9	87.7	84.5	84.5
92.5°	269.6	233.9	191.6	159.2	133.2	110.4	97.4	84.5	81.2	81.2	78.0
95°	233.9	204.6	168.9	142.9	120.2	103.9	90.9	81.2	78.0	78.0	74.7
97.5°	201.4	175.4	149.4	129.9	110.4	97.4	84.5	78.0	71.5	71.5	71.5
100°	168.9	149.4	129.9	110.4	100.7	87.7	78.0	71.5	68.2	65.0	65.0
102.5°	136.4	123.4	107.2	97.4	84.5	74.7	68.2	61.7	58.5	58.5	58.5
105°	116.9	107.2	97.4	87.7	78.0	68.2	61.7	55.2	52.0	52.0	52.0
107.5°	107.2	100.7	90.9	81.2	74.7	65.0	58.5	48.7	45.5	48.7	48.7
110°	103.9	97.4	87.7	81.2	71.5	65.0	58.5	45.5	42.2	45.5	45.5



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CATALOG NUMBER: CRTK2-C01H-5TLD-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	103.9	97.4	90.9	81.2	74.7	65.0	58.5	45.5	42.2	42.2	42.2
115°	107.2	103.9	94.2	87.7	78.0	68.2	58.5	45.5	42.2	42.2	42.2
117.5°	120.2	113.7	103.9	94.2	84.5	71.5	61.7	45.5	42.2	42.2	42.2
120°	133.2	126.7	116.9	103.9	90.9	78.0	65.0	45.5	39.0	42.2	42.2
122.5°	155.9	146.2	133.2	116.9	100.7	84.5	65.0	48.7	35.7	42.2	42.2
125°	185.1	172.2	152.7	129.9	110.4	90.9	68.2	48.7	39.0	42.2	42.2
127.5°	217.6	201.4	175.4	146.2	120.2	94.2	71.5	48.7	39.0	39.0	42.2
130°	259.9	233.9	198.1	162.4	129.9	100.7	71.5	48.7	39.0	39.0	39.0
132.5°	295.6	263.1	217.6	175.4	136.4	103.9	71.5	48.7	35.7	35.7	35.7
135°	331.3	289.1	233.9	185.1	142.9	103.9	71.5	45.5	35.7	35.7	35.7
137.5°	360.6	305.3	246.9	188.4	142.9	100.7	68.2	42.2	32.5	32.5	32.5
140°	376.8	315.1	250.1	188.4	136.4	97.4	61.7	39.0	29.2	29.2	29.2
142.5°	376.8	311.8	246.9	181.9	129.9	90.9	55.2	32.5	26.0	26.0	26.0
145°	363.8	298.8	233.9	172.2	120.2	81.2	48.7	29.2	19.5	19.5	22.7
147.5°	341.1	276.1	214.4	155.9	107.2	68.2	42.2	22.7	16.2	16.2	16.2
150°	302.1	243.6	185.1	136.4	90.9	58.5	35.7	19.5	13.0	13.0	13.0
152.5°	253.4	201.4	155.9	113.7	74.7	45.5	26.0	16.2	9.7	9.7	9.7
155°	201.4	159.2	123.4	87.7	55.2	35.7	19.5	13.0	9.7	9.7	9.7
157.5°	149.4	120.2	90.9	65.0	42.2	26.0	16.2	9.7	6.5	6.5	6.5
160°	103.9	84.5	61.7	42.2	26.0	16.2	9.7	6.5	3.2	3.2	3.2
162.5°	68.2	52.0	39.0	26.0	16.2	9.7	6.5	3.2	3.2	3.2	3.2
165°	32.5	26.0	19.5	13.0	6.5	6.5	3.2	3.2	0.0	0.0	0.0
167.5°	9.7	6.5	3.2	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)