

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: P691597

Luminaire Tested: **CRTK2-C018-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691597
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-C018-5TLD-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: 5870 lumens
Efficiency: N/A
Efficacy: 109.3 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): 53.7
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



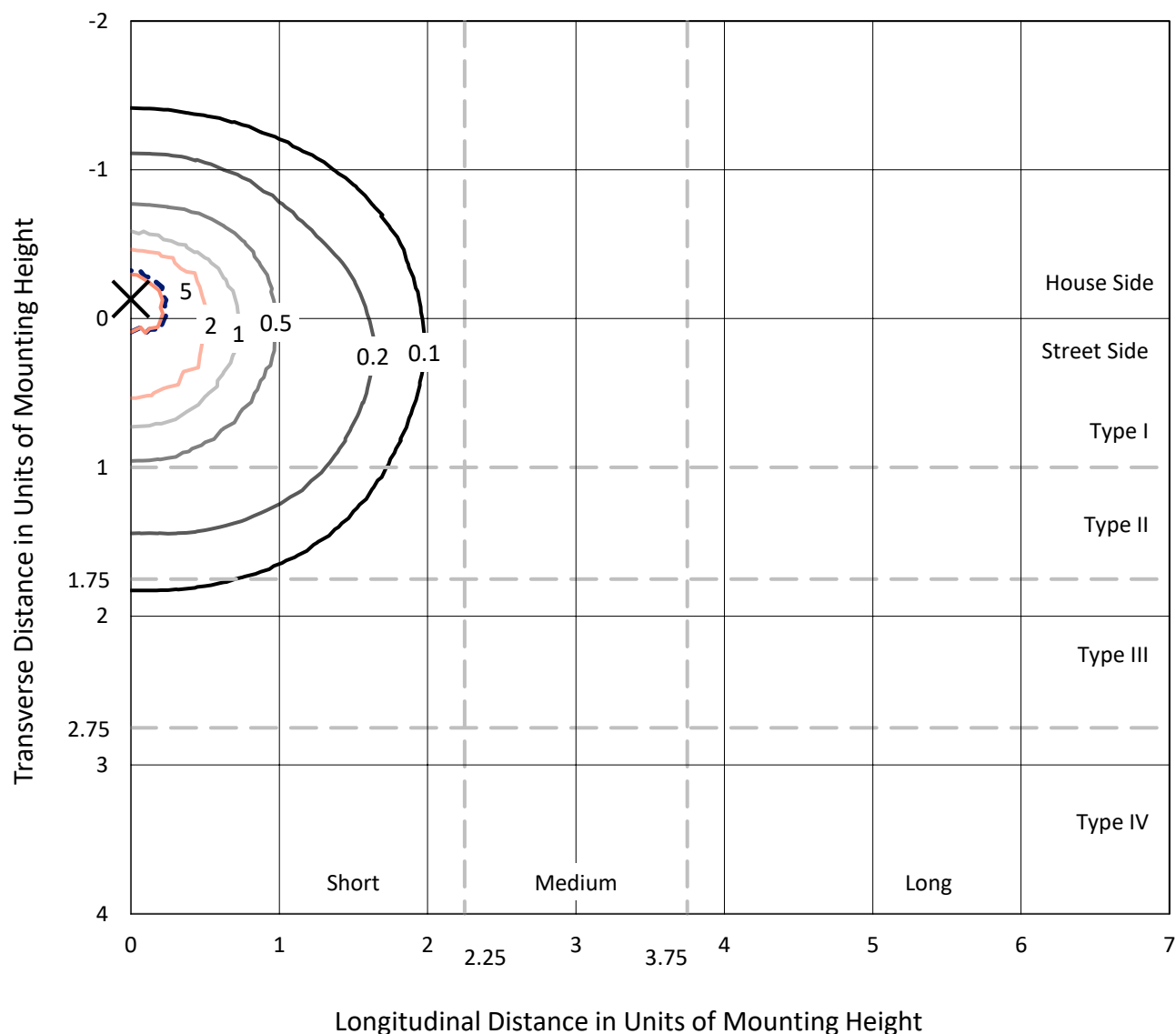
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



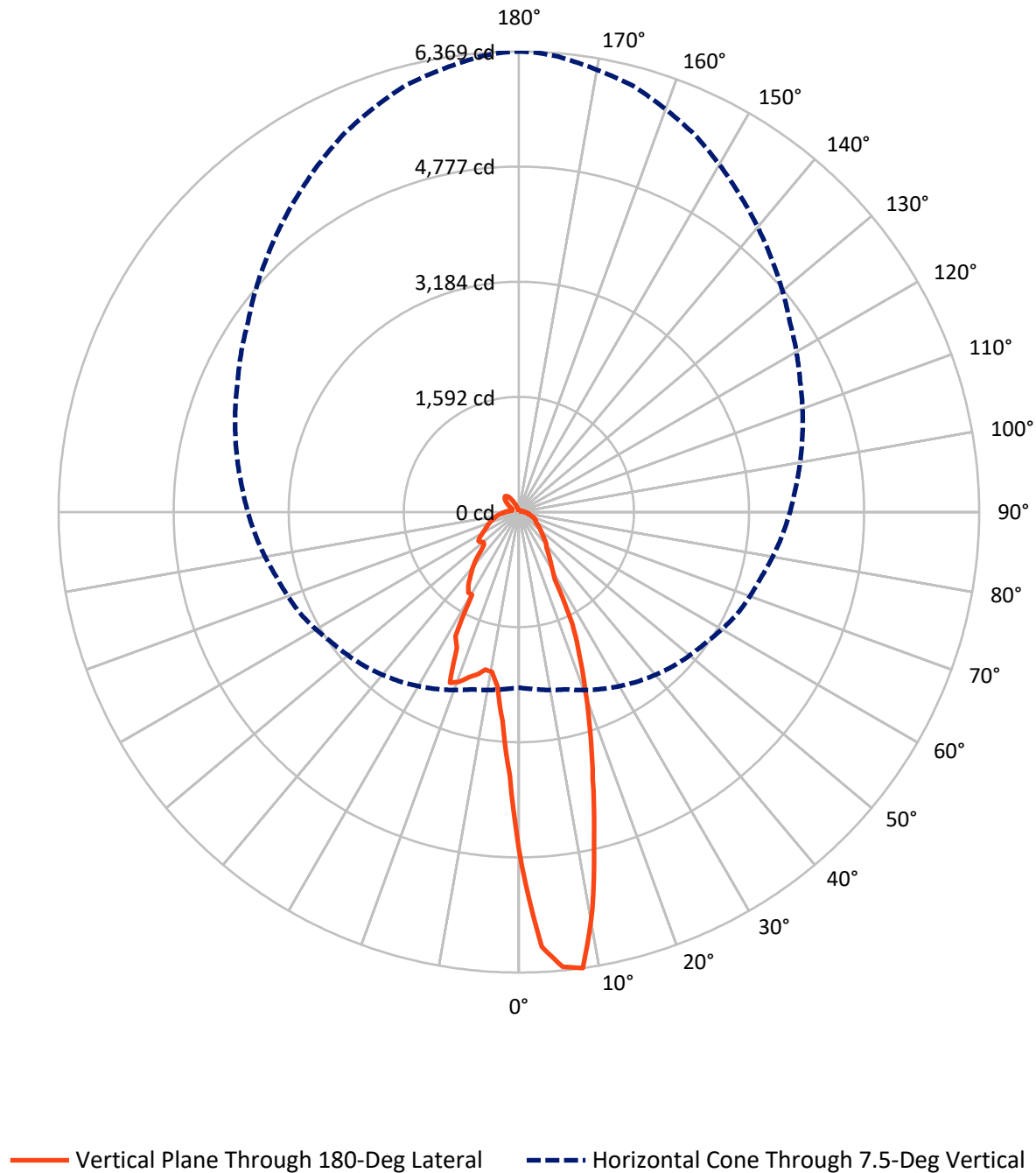
Based on 25 foot mounting height. Maximum calculated value = 9.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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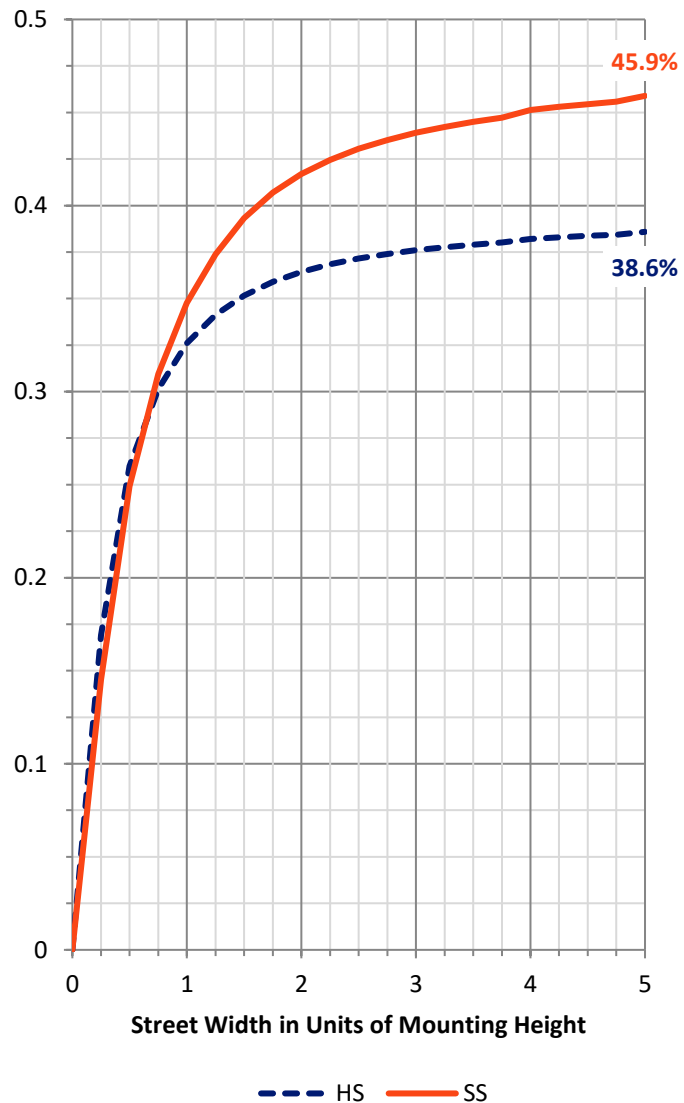
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2324.0	242.4	2566.4
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2771.4	532.2	3303.6
	% Fixture	47.2	9.1	56.3
Total	Lumens	5095.4	774.6	5870.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.3	6.7
10°-20°	841.3	14.3
20°-30°	929.1	15.8
30°-40°	673.8	11.5
40°-50°	567.7	9.7
50°-60°	579.6	9.9
60°-70°	493.9	8.4
70°-80°	368.2	6.3
80°-90°	248.5	4.2
90°-100°	148.6	2.5
100°-110°	85.4	1.5
110°-120°	79.9	1.4
120°-130°	116.4	2.0
130°-140°	158.1	2.7
140°-150°	128.7	2.2
150°-160°	51.3	0.9
160°-170°	6.2	0.1
170°-180°	0.0	0.0
0°-90°	5095.4	86.8
0°-180°	5870.0	100.0

Coefficient of Utilization



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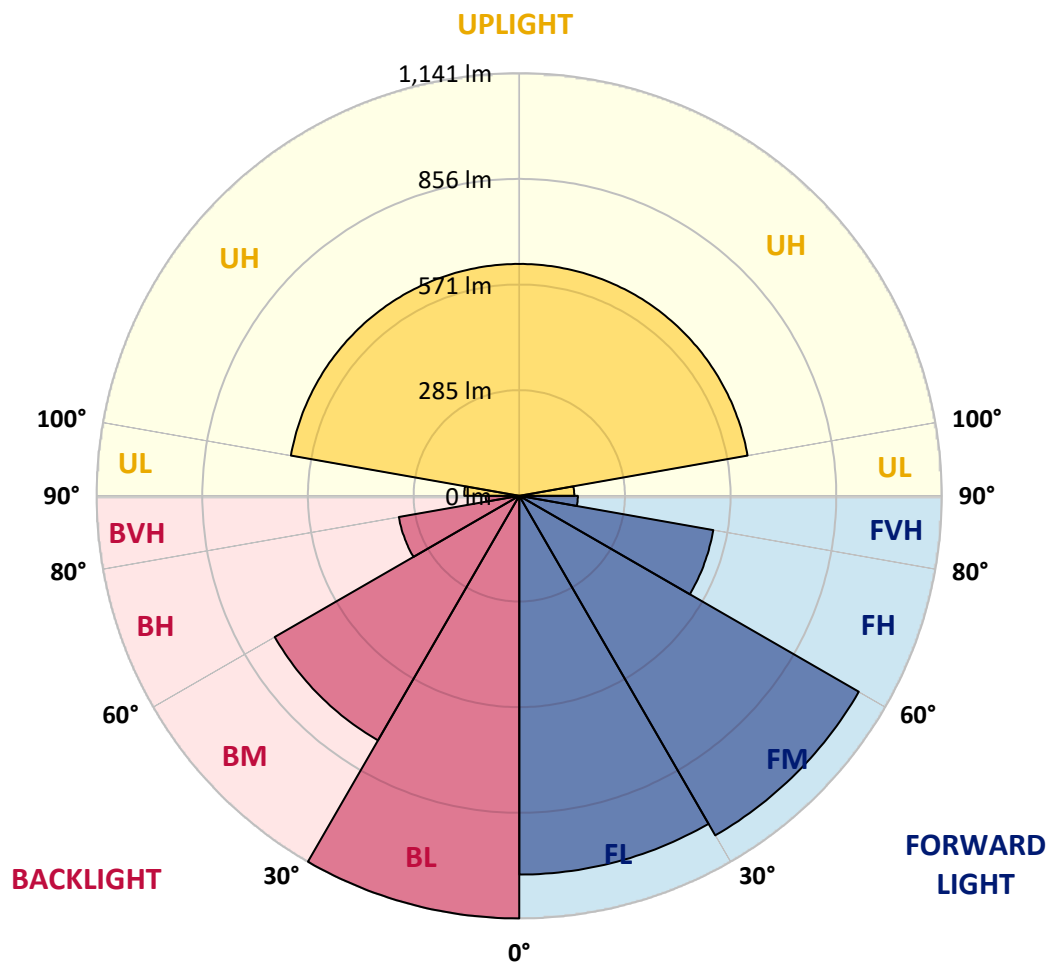
CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1022.6	17.4			
FM	(30°-60°)	1058.6	18.0			
FH	(60°-80°)	532.1	9.1			G0/660
FVH	(80°-90°)	158.1	2.7			G2/225
BL	(0°-30°)	1141.1	19.4	B3/2500		
BM	(30°-60°)	762.4	13.0	B1/1000		
BH	(60°-80°)	330.1	5.6	B1/500		G1/500
BVH	(80°-90°)	90.4	1.5			G1/100
UL	(90°-100°)	148.6	2.5		U3/500	
UH	(100°-180°)	626.0	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°	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4
2.5°	3642.9	3727.4	3735.1	3827.4	3896.5	3960.6	4006.7	4139.9	4275.7	4403.8	4478.1
5°	2892.3	2933.3	3007.6	3107.5	3235.6	3335.5	3479.0	3666.0	3845.3	4070.7	4180.9
7.5°	2428.6	2459.3	2538.8	2700.2	2861.6	3015.3	3153.6	3332.9	3471.3	3658.3	3750.5
10°	2244.2	2262.1	2328.7	2441.4	2595.1	2723.2	2843.6	2979.4	3102.4	3274.0	3340.6
12.5°	2226.2	2233.9	2287.7	2367.1	2456.8	2561.8	2661.7	2777.0	2907.7	3043.4	3094.7
15°	2323.6	2318.4	2336.4	2382.5	2433.7	2515.7	2607.9	2713.0	2838.5	2938.4	2979.4
17.5°	2392.7	2390.2	2423.5	2444.0	2492.7	2541.3	2633.6	2715.5	2838.5	2917.9	2941.0
20°	2492.7	2497.8	2508.0	2546.4	2566.9	2600.2	2656.6	2705.3	2810.3	2856.4	2851.3
22.5°	2546.4	2543.9	2587.4	2677.1	2700.2	2718.1	2728.3	2748.8	2807.8	2805.2	2766.8
25°	2064.8	2070.0	2080.2	2157.1	2254.4	2413.2	2543.9	2748.8	2859.0	2818.0	2736.0
27.5°	1929.1	1913.7	1859.9	1816.3	1685.7	1598.6	1516.6	1480.7	1498.7	1529.4	1613.9
30°	1314.2	1316.8	1321.9	1329.6	1342.4	1375.7	1398.8	1401.3	1419.2	1470.5	1452.6
32.5°	1316.8	1319.3	1311.7	1319.3	1314.2	1327.0	1324.5	1314.2	1329.6	1375.7	1357.8
35°	1237.4	1232.2	1237.4	1239.9	1211.7	1201.5	1198.9	1191.2	1201.5	1224.6	1209.2
37.5°	1114.4	1111.8	1134.9	1147.7	1124.6	1124.6	1119.5	1109.3	1117.0	1137.4	1117.0
40°	1006.8	1009.4	1042.7	1063.2	1055.5	1063.2	1070.8	1068.3	1086.2	1093.9	1068.3
42.5°	889.0	883.8	917.1	932.5	917.1	922.3	919.7	922.3	958.1	973.5	955.6
45°	742.9	750.6	766.0	786.5	783.9	791.6	789.0	794.2	817.2	824.9	812.1
47.5°	660.9	666.1	684.0	707.1	719.9	732.7	732.7	735.2	750.6	753.2	740.4
50°	643.0	648.1	671.2	696.8	717.3	732.7	740.4	737.8	745.5	740.4	722.4
52.5°	673.8	673.8	709.6	740.4	766.0	794.2	804.4	794.2	794.2	773.7	745.5
55°	686.6	689.1	732.7	786.5	835.2	886.4	919.7	917.1	914.6	881.3	830.0
57.5°	645.6	653.3	696.8	758.3	824.9	906.9	955.6	963.2	963.2	919.7	863.3
60°	586.7	591.8	625.1	676.3	742.9	804.4	855.6	860.8	876.1	853.1	801.8
62.5°	538.0	543.1	571.3	609.7	658.4	696.8	712.2	712.2	719.9	712.2	676.3
65°	502.1	504.7	527.7	561.0	594.3	625.1	640.5	635.3	645.6	635.3	607.2
67.5°	468.8	468.8	489.3	514.9	545.7	581.5	591.8	596.9	607.2	594.3	568.7
70°	435.5	438.1	458.6	479.1	507.2	532.9	543.1	545.7	558.5	543.1	525.2
72.5°	407.3	407.3	425.3	445.8	466.3	491.9	499.6	504.7	512.4	497.0	481.6
75°	374.0	376.6	392.0	409.9	427.8	453.4	461.1	463.7	471.4	453.4	438.1
77.5°	343.3	345.8	358.7	374.0	392.0	412.5	420.1	425.3	427.8	412.5	397.1
80°	312.5	315.1	325.4	340.7	356.1	376.6	381.7	384.3	389.4	371.5	361.2
82.5°	284.4	284.4	292.0	304.9	320.2	338.2	345.8	348.4	351.0	335.6	325.4
85°	251.1	251.1	258.7	271.6	284.4	302.3	310.0	312.5	312.5	299.7	289.5
87.5°	222.9	222.9	228.0	238.2	248.5	266.4	274.1	279.2	276.7	266.4	256.2
90°	194.7	194.7	199.8	207.5	217.8	233.1	240.8	243.4	243.4	230.6	222.9
92.5°	169.1	169.1	174.2	181.9	189.6	202.4	210.1	215.2	215.2	204.9	197.3
95°	146.0	146.0	148.6	156.3	164.0	174.2	179.3	184.5	184.5	179.3	171.6
97.5°	125.5	125.5	128.1	133.2	138.3	146.0	151.1	156.3	156.3	153.7	148.6
100°	110.2	110.2	110.2	112.7	117.8	120.4	125.5	130.7	130.7	128.1	125.5
102.5°	99.9	99.9	99.9	99.9	99.9	102.5	102.5	105.0	105.0	105.0	102.5
105°	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	92.2	89.7	87.1
107.5°	94.8	92.2	92.2	92.2	92.2	89.7	89.7	89.7	87.1	84.5	82.0
110°	94.8	94.8	94.8	94.8	92.2	89.7	89.7	87.1	84.5	82.0	79.4



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CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	99.9	99.9	99.9	97.3	94.8	94.8	92.2	89.7	87.1	82.0	79.4
115°	107.6	107.6	107.6	107.6	105.0	99.9	97.3	94.8	89.7	87.1	84.5
117.5°	120.4	120.4	120.4	120.4	115.3	112.7	107.6	105.0	99.9	94.8	92.2
120°	135.8	135.8	138.3	138.3	135.8	130.7	123.0	120.4	115.3	107.6	102.5
122.5°	158.8	156.3	161.4	161.4	161.4	156.3	146.0	140.9	135.8	125.5	120.4
125°	181.9	181.9	187.0	192.1	194.7	187.0	176.8	169.1	161.4	148.6	140.9
127.5°	207.5	207.5	217.8	228.0	233.1	225.4	212.6	204.9	194.7	176.8	166.5
130°	233.1	233.1	248.5	263.9	271.6	266.4	253.6	243.4	230.6	207.5	194.7
132.5°	256.2	256.2	274.1	294.6	304.9	302.3	289.5	279.2	269.0	240.8	222.9
135°	274.1	276.7	299.7	322.8	335.6	338.2	325.4	312.5	299.7	269.0	248.5
137.5°	284.4	289.5	312.5	340.7	353.5	361.2	353.5	340.7	325.4	292.0	269.0
140°	286.9	289.5	315.1	343.3	356.1	366.3	366.3	351.0	338.2	304.9	279.2
142.5°	279.2	281.8	307.4	333.0	345.8	358.7	361.2	348.4	335.6	304.9	279.2
145°	261.3	266.4	289.5	310.0	327.9	340.7	345.8	338.2	322.8	294.6	271.6
147.5°	238.2	240.8	261.3	279.2	297.2	312.5	320.2	312.5	299.7	274.1	253.6
150°	202.4	204.9	220.3	235.7	256.2	271.6	281.8	276.7	266.4	245.9	225.4
152.5°	164.0	164.0	176.8	189.6	207.5	222.9	233.1	230.6	222.9	204.9	189.6
155°	125.5	125.5	133.2	143.5	158.8	169.1	179.3	179.3	174.2	161.4	148.6
157.5°	89.7	89.7	97.3	105.0	115.3	125.5	133.2	133.2	130.7	120.4	112.7
160°	58.9	58.9	64.0	69.2	79.4	84.5	92.2	92.2	89.7	84.5	79.4
162.5°	30.7	30.7	35.9	38.4	46.1	51.2	56.4	58.9	58.9	53.8	51.2
165°	10.2	10.2	10.2	12.8	17.9	23.1	25.6	28.2	28.2	25.6	25.6
167.5°	2.6	2.6	2.6	2.6	2.6	2.6	5.1	7.7	7.7	7.7	7.7
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°	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4
2.5°	4557.5	4790.6	4990.4	5200.5	5433.6	5630.9	5830.7	5940.9	6035.6	6017.7	6017.7
5°	4288.5	4521.6	4765.0	5021.2	5336.3	5659.1	5966.5	6186.8	6302.1	6320.0	6317.4
7.5°	3842.7	4060.5	4291.0	4575.4	4944.3	5338.8	5756.4	6102.3	6320.0	6361.0	6368.7
10°	3402.1	3566.1	3760.8	3955.5	4285.9	4647.1	5021.2	5297.8	5510.5	5541.2	5577.1
12.5°	3138.2	3227.9	3353.4	3489.2	3704.4	3968.3	4275.7	4434.5	4570.3	4585.7	4619.0
15°	3002.5	3046.0	3076.7	3125.4	3253.5	3417.5	3558.4	3714.6	3771.0	3809.4	3827.4
17.5°	2948.7	2943.5	2912.8	2912.8	2923.0	2984.5	3074.2	3128.0	3163.8	3181.8	3186.9
20°	2838.5	2792.4	2730.9	2648.9	2605.4	2584.9	2607.9	2620.7	2610.5	2597.7	2620.7
22.5°	2723.2	2625.9	2515.7	2420.9	2308.2	2239.0	2172.4	2149.4	2121.2	2139.1	2139.1
25°	2687.3	2515.7	2338.9	2180.1	2011.0	1895.7	1772.8	1729.2	1685.7	1721.5	1721.5
27.5°	1588.3	1588.3	1488.4	1355.2	1209.2	1147.7	1099.0	1070.8	1052.9	1060.6	1060.6
30°	1421.8	1355.2	1293.7	1209.2	1096.5	1022.2	958.1	919.7	901.8	896.6	901.8
32.5°	1319.3	1268.1	1193.8	1109.3	1009.4	927.4	855.6	817.2	789.0	794.2	796.7
35°	1181.0	1127.2	1063.2	983.7	899.2	822.3	758.3	719.9	694.3	694.3	696.8
37.5°	1093.9	1040.1	978.6	906.9	824.9	750.6	691.7	645.6	622.5	620.0	620.0
40°	1040.1	986.3	929.9	858.2	781.4	704.5	645.6	604.6	576.4	576.4	579.0
42.5°	942.8	891.5	842.8	778.8	709.6	643.0	586.7	550.8	522.6	517.5	522.6
45°	794.2	766.0	727.6	684.0	625.1	571.3	520.0	489.3	466.3	466.3	463.7
47.5°	727.6	699.4	658.4	614.8	566.2	512.4	471.4	443.2	422.7	422.7	422.7
50°	701.9	671.2	620.0	571.3	514.9	468.8	432.9	404.8	389.4	389.4	386.8
52.5°	714.7	666.1	599.5	530.3	476.5	430.4	394.5	366.3	353.5	353.5	351.0
55°	783.9	696.8	599.5	514.9	450.9	399.6	363.8	333.0	320.2	320.2	320.2
57.5°	812.1	714.7	594.3	499.6	427.8	374.0	330.5	302.3	289.5	289.5	286.9
60°	760.9	678.9	568.7	479.1	409.9	356.1	315.1	286.9	271.6	271.6	269.0
62.5°	648.1	589.2	504.7	438.1	384.3	335.6	299.7	271.6	258.7	258.7	258.7
65°	581.5	530.3	463.7	404.8	356.1	315.1	281.8	258.7	245.9	245.9	245.9
67.5°	543.1	499.6	432.9	376.6	327.9	289.5	258.7	238.2	228.0	225.4	228.0
70°	502.1	456.0	394.5	340.7	297.2	261.3	233.1	212.6	202.4	202.4	202.4
72.5°	458.6	415.0	356.1	307.4	263.9	235.7	207.5	189.6	179.3	179.3	176.8
75°	417.6	374.0	317.7	271.6	235.7	207.5	184.5	169.1	158.8	158.8	158.8
77.5°	379.1	338.2	284.4	243.4	210.1	187.0	164.0	151.1	143.5	143.5	140.9
80°	343.3	304.9	253.6	217.8	187.0	166.5	146.0	135.8	128.1	128.1	128.1
82.5°	307.4	271.6	225.4	192.1	166.5	146.0	130.7	120.4	115.3	112.7	115.3
85°	274.1	240.8	199.8	169.1	146.0	128.1	115.3	105.0	99.9	99.9	99.9
87.5°	243.4	212.6	176.8	148.6	128.1	112.7	99.9	92.2	89.7	87.1	87.1
90°	210.1	181.9	151.1	128.1	110.2	97.3	84.5	79.4	74.3	74.3	74.3
92.5°	187.0	164.0	135.8	115.3	99.9	89.7	79.4	74.3	69.2	69.2	69.2
95°	164.0	143.5	120.4	105.0	92.2	82.0	74.3	69.2	66.6	66.6	66.6
97.5°	140.9	125.5	107.6	94.8	84.5	76.9	69.2	64.0	61.5	61.5	61.5
100°	117.8	107.6	94.8	84.5	76.9	69.2	61.5	58.9	56.4	56.4	56.4
102.5°	97.3	89.7	79.4	71.7	64.0	58.9	53.8	51.2	48.7	48.7	48.7
105°	84.5	79.4	71.7	64.0	58.9	53.8	48.7	43.6	43.6	43.6	43.6
107.5°	79.4	71.7	66.6	61.5	56.4	48.7	46.1	41.0	38.4	38.4	38.4
110°	76.9	71.7	66.6	58.9	53.8	48.7	43.6	38.4	35.9	35.9	35.9



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CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	76.9	71.7	66.6	61.5	56.4	48.7	46.1	35.9	33.3	33.3	33.3
115°	82.0	76.9	69.2	64.0	56.4	51.2	46.1	35.9	33.3	33.3	33.3
117.5°	87.1	82.0	74.3	69.2	61.5	53.8	46.1	35.9	33.3	33.3	33.3
120°	99.9	92.2	82.0	74.3	66.6	56.4	48.7	35.9	30.7	33.3	33.3
122.5°	112.7	105.0	92.2	82.0	71.7	61.5	48.7	35.9	30.7	33.3	33.3
125°	133.2	120.4	105.0	92.2	76.9	64.0	51.2	35.9	28.2	30.7	33.3
127.5°	156.3	140.9	120.4	102.5	84.5	66.6	51.2	35.9	28.2	30.7	30.7
130°	181.9	161.4	135.8	110.2	89.7	69.2	51.2	35.9	28.2	30.7	30.7
132.5°	207.5	179.3	148.6	120.4	94.8	71.7	51.2	33.3	28.2	28.2	28.2
135°	228.0	194.7	158.8	125.5	97.3	71.7	48.7	33.3	25.6	25.6	25.6
137.5°	245.9	207.5	166.5	128.1	97.3	69.2	46.1	30.7	23.1	23.1	23.1
140°	256.2	212.6	169.1	125.5	92.2	66.6	43.6	28.2	20.5	20.5	20.5
142.5°	256.2	210.1	164.0	123.0	87.1	61.5	38.4	23.1	17.9	17.9	17.9
145°	245.9	199.8	156.3	115.3	79.4	53.8	33.3	20.5	15.4	15.4	15.4
147.5°	230.6	184.5	143.5	105.0	71.7	46.1	28.2	17.9	12.8	12.8	12.8
150°	204.9	164.0	125.5	89.7	61.5	38.4	23.1	15.4	10.2	10.2	10.2
152.5°	171.6	135.8	105.0	74.3	51.2	30.7	20.5	10.2	7.7	7.7	7.7
155°	135.8	107.6	82.0	58.9	38.4	23.1	15.4	10.2	5.1	5.1	5.1
157.5°	102.5	79.4	61.5	43.6	28.2	17.9	10.2	7.7	5.1	5.1	5.1
160°	71.7	56.4	41.0	28.2	17.9	12.8	7.7	5.1	2.6	2.6	2.6
162.5°	46.1	35.9	25.6	17.9	10.2	7.7	5.1	2.6	2.6	2.6	0.0
165°	23.1	17.9	12.8	7.7	5.1	2.6	2.6	2.6	0.0	0.0	0.0
167.5°	5.1	5.1	5.1	2.6	2.6	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)