

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: P691621

Luminaire Tested: **CRTK2-C018-5TLD-U-T3-8027-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691621
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-T3-8027-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K 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: 5307 lumens
Efficiency: N/A
Efficacy: 98.8 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



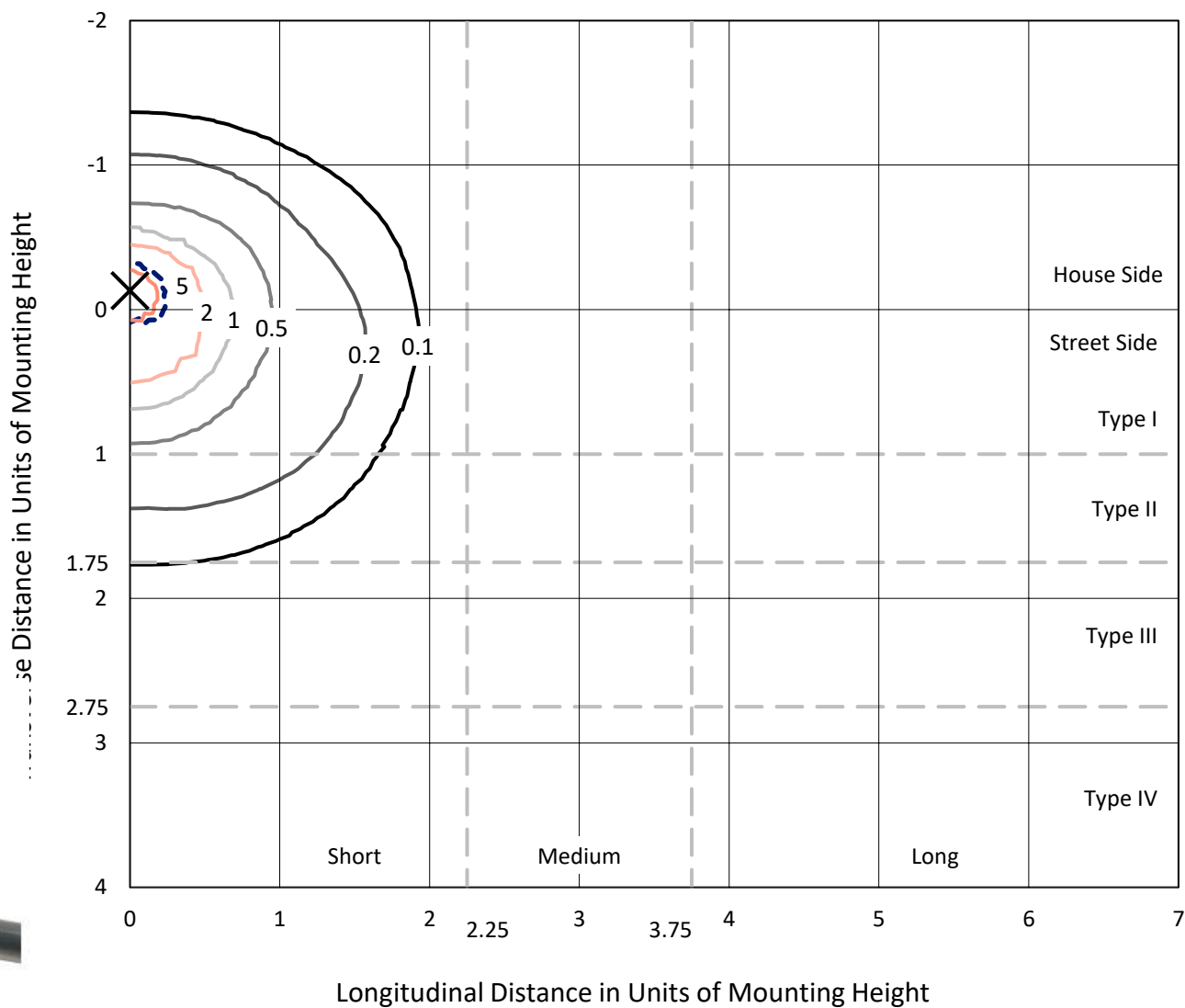
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



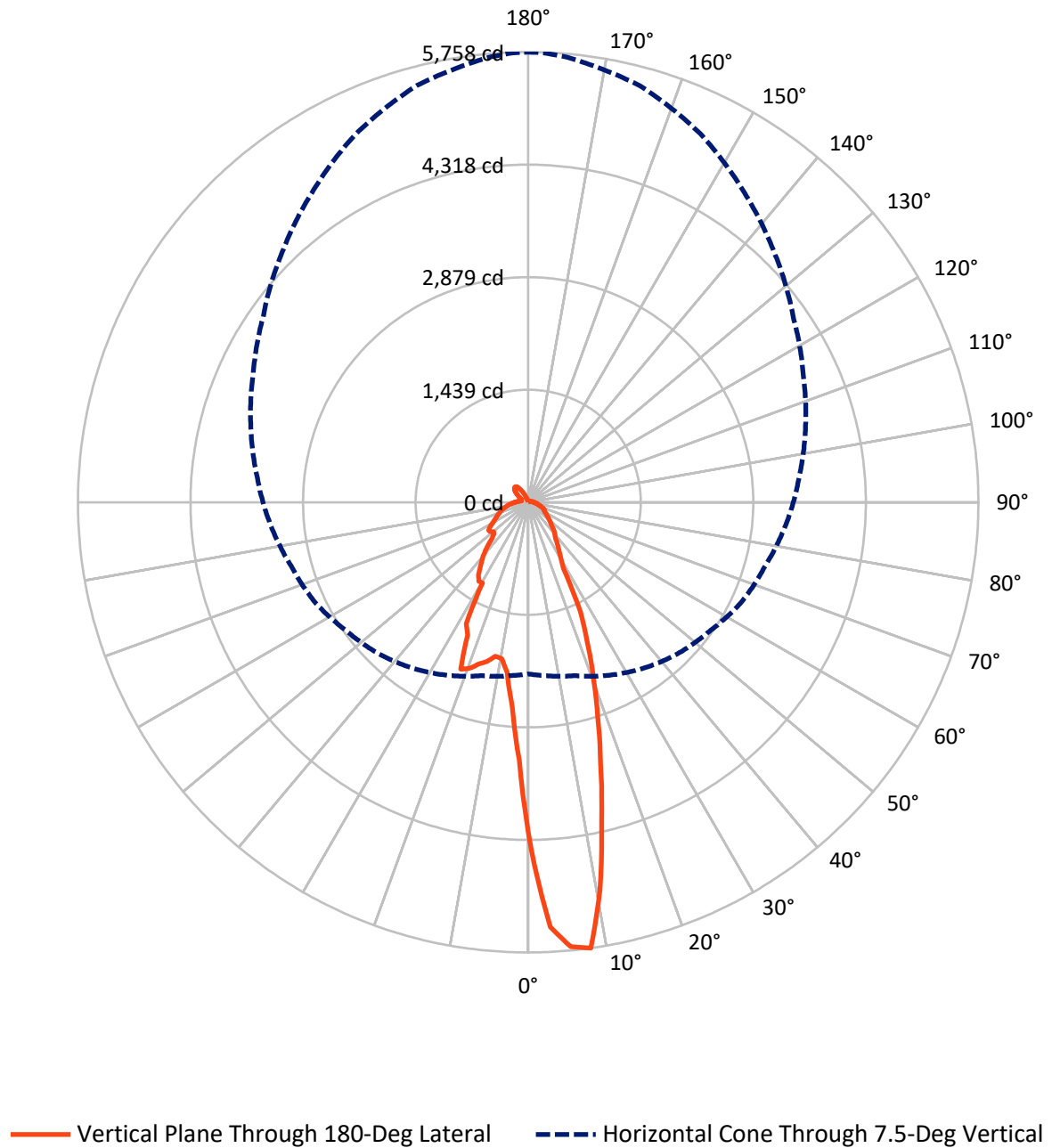
Based on 25 foot mounting height. Maximum calculated value = 9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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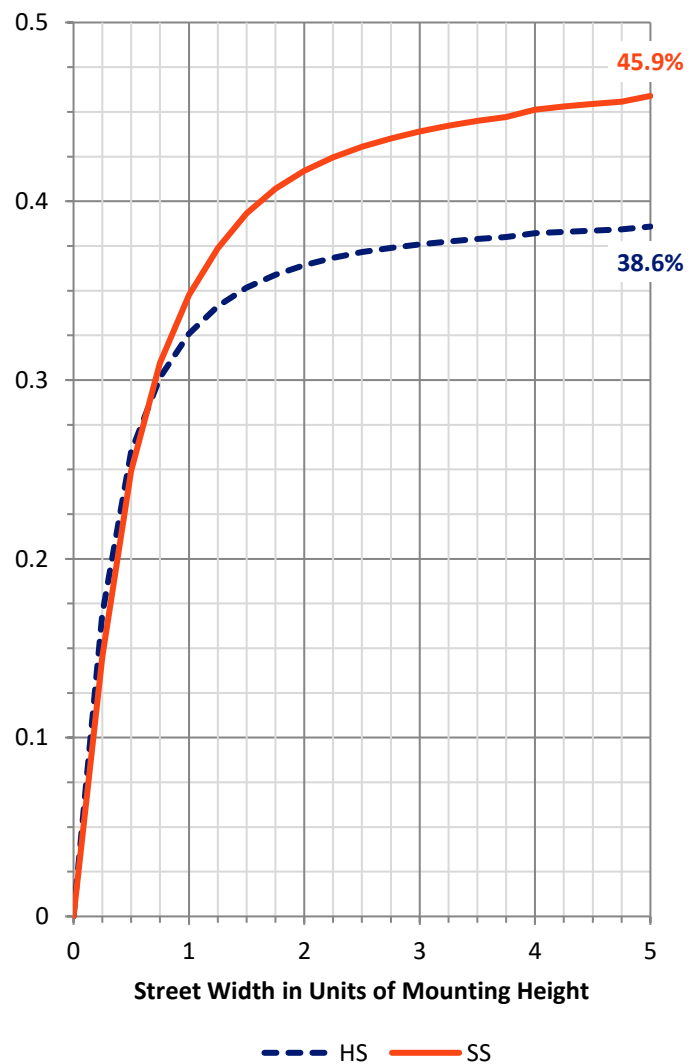
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2101.1	219.1	2320.2
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2505.6	481.2	2986.8
	% Fixture	47.2	9.1	56.3
Total	Lumens	4606.7	700.3	5307.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.5	6.7
10°-20°	760.7	14.3
20°-30°	840.0	15.8
30°-40°	609.2	11.5
40°-50°	513.2	9.7
50°-60°	524.0	9.9
60°-70°	446.5	8.4
70°-80°	332.9	6.3
80°-90°	224.7	4.2
90°-100°	134.3	2.5
100°-110°	77.3	1.5
110°-120°	72.2	1.4
120°-130°	105.2	2.0
130°-140°	142.9	2.7
140°-150°	116.3	2.2
150°-160°	46.4	0.9
160°-170°	5.6	0.1
170°-180°	0.0	0.0
0°-90°	4606.7	86.8
0°-180°	5307.0	100.0

Coefficient of Utilization



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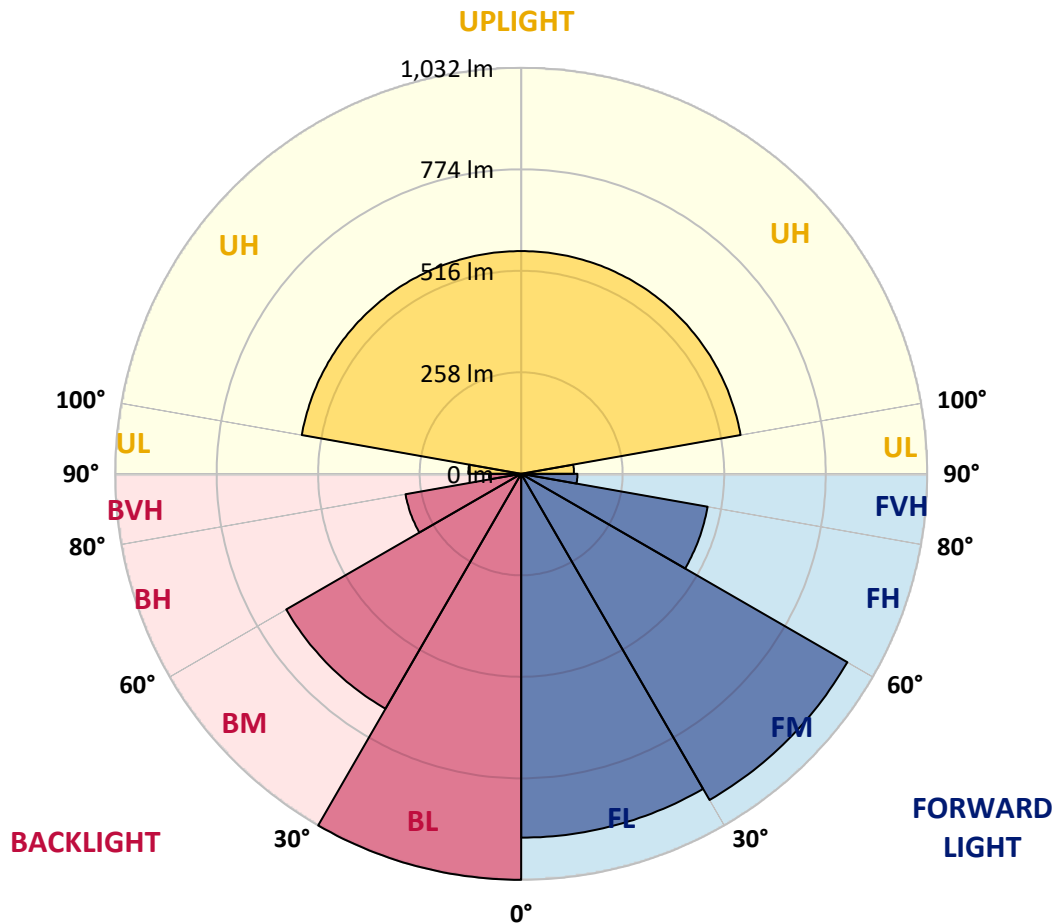
CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-8027-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.5	17.4			
FM	(30°-60°)	957.1	18.0			
FH	(60°-80°)	481.1	9.1			G0/660
FVH	(80°-90°)	142.9	2.7			G2/225
BL	(0°-30°)	1031.7	19.4	B3/2500		
BM	(30°-60°)	689.3	13.0	B1/1000		
BH	(60°-80°)	298.4	5.6	B1/500		G1/500
BVH	(80°-90°)	81.8	1.5			G1/100
UL	(90°-100°)	134.3	2.5		U3/500	
UH	(100°-180°)	566.0	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°	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7
2.5°	3293.5	3369.9	3376.9	3460.3	3522.8	3580.7	3622.4	3742.8	3865.6	3981.4	4048.6
5°	2614.9	2651.9	2719.1	2809.4	2925.3	3015.6	3145.3	3314.4	3476.5	3680.3	3779.9
7.5°	2195.7	2223.5	2295.3	2441.2	2587.1	2726.1	2851.1	3013.3	3138.3	3307.4	3390.8
10°	2028.9	2045.1	2105.3	2207.3	2346.2	2462.0	2570.9	2693.6	2804.8	2960.0	3020.2
12.5°	2012.7	2019.7	2068.3	2140.1	2221.2	2316.1	2406.4	2510.7	2628.8	2751.5	2797.9
15°	2100.7	2096.1	2112.3	2154.0	2200.3	2274.4	2357.8	2452.8	2566.3	2656.6	2693.6
17.5°	2163.2	2160.9	2191.0	2209.6	2253.6	2297.6	2381.0	2455.1	2566.3	2638.1	2658.9
20°	2253.6	2258.2	2267.5	2302.2	2320.7	2350.9	2401.8	2445.8	2540.8	2582.5	2577.8
22.5°	2302.2	2299.9	2339.3	2420.3	2441.2	2457.4	2466.7	2485.2	2538.5	2536.1	2501.4
25°	1866.8	1871.4	1880.7	1950.2	2038.2	2181.8	2299.9	2485.2	2584.8	2547.7	2473.6
27.5°	1744.0	1730.1	1681.5	1642.1	1524.0	1445.3	1371.1	1338.7	1354.9	1382.7	1459.2
30°	1188.2	1190.5	1195.1	1202.1	1213.6	1243.8	1264.6	1266.9	1283.1	1329.4	1313.2
32.5°	1190.5	1192.8	1185.8	1192.8	1188.2	1199.7	1197.4	1188.2	1202.1	1243.8	1227.5
35°	1118.7	1114.1	1118.7	1121.0	1095.5	1086.3	1083.9	1077.0	1086.3	1107.1	1093.2
37.5°	1007.5	1005.2	1026.0	1037.6	1016.8	1016.8	1012.1	1002.9	1009.8	1028.4	1009.8
40°	910.2	912.5	942.7	961.2	954.2	961.2	968.1	965.8	982.0	989.0	965.8
42.5°	803.7	799.1	829.2	843.1	829.2	833.8	831.5	833.8	866.2	880.1	863.9
45°	671.7	678.6	692.5	711.0	708.7	715.7	713.4	718.0	738.8	745.8	734.2
47.5°	597.6	602.2	618.4	639.2	650.8	662.4	662.4	664.7	678.6	680.9	669.4
50°	581.3	586.0	606.8	630.0	648.5	662.4	669.4	667.0	674.0	669.4	653.1
52.5°	609.1	609.1	641.6	669.4	692.5	718.0	727.3	718.0	718.0	699.5	674.0
55°	620.7	623.0	662.4	711.0	755.1	801.4	831.5	829.2	826.9	796.7	750.4
57.5°	583.7	590.6	630.0	685.6	745.8	819.9	863.9	870.9	870.9	831.5	780.5
60°	530.4	535.0	565.1	611.5	671.7	727.3	773.6	778.2	792.1	771.3	724.9
62.5°	486.4	491.0	516.5	551.2	595.2	630.0	643.9	643.9	650.8	643.9	611.5
65°	454.0	456.3	477.1	507.2	537.3	565.1	579.0	574.4	583.7	574.4	548.9
67.5°	423.8	423.8	442.4	465.5	493.3	525.8	535.0	539.7	548.9	537.3	514.2
70°	393.7	396.1	414.6	433.1	458.6	481.8	491.0	493.3	504.9	491.0	474.8
72.5°	368.3	368.3	384.5	403.0	421.5	444.7	451.6	456.3	463.2	449.3	435.4
75°	338.2	340.5	354.4	370.6	386.8	410.0	416.9	419.2	426.2	410.0	396.1
77.5°	310.4	312.7	324.3	338.2	354.4	372.9	379.8	384.5	386.8	372.9	359.0
80°	282.6	284.9	294.1	308.0	321.9	340.5	345.1	347.4	352.0	335.8	326.6
82.5°	257.1	257.1	264.0	275.6	289.5	305.7	312.7	315.0	317.3	303.4	294.1
85°	227.0	227.0	233.9	245.5	257.1	273.3	280.2	282.6	282.6	271.0	261.7
87.5°	201.5	201.5	206.1	215.4	224.7	240.9	247.8	252.5	250.1	240.9	231.6
90°	176.0	176.0	180.7	187.6	196.9	210.8	217.7	220.0	220.0	208.5	201.5
92.5°	152.9	152.9	157.5	164.4	171.4	183.0	189.9	194.6	194.6	185.3	178.3
95°	132.0	132.0	134.3	141.3	148.2	157.5	162.1	166.8	166.8	162.1	155.2
97.5°	113.5	113.5	115.8	120.4	125.1	132.0	136.7	141.3	141.3	139.0	134.3
100°	99.6	99.6	99.6	101.9	106.5	108.9	113.5	118.1	118.1	115.8	113.5
102.5°	90.3	90.3	90.3	90.3	90.3	92.6	92.6	95.0	95.0	95.0	92.6
105°	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	83.4	81.1	78.7
107.5°	85.7	83.4	83.4	83.4	83.4	81.1	81.1	81.1	78.7	76.4	74.1
110°	85.7	85.7	85.7	85.7	83.4	81.1	81.1	78.7	76.4	74.1	71.8

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CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.3	90.3	90.3	88.0	85.7	85.7	83.4	81.1	78.7	74.1	71.8
115°	97.3	97.3	97.3	97.3	95.0	90.3	88.0	85.7	81.1	78.7	76.4
117.5°	108.9	108.9	108.9	108.9	104.2	101.9	97.3	95.0	90.3	85.7	83.4
120°	122.8	122.8	125.1	125.1	122.8	118.1	111.2	108.9	104.2	97.3	92.6
122.5°	143.6	141.3	145.9	145.9	145.9	141.3	132.0	127.4	122.8	113.5	108.9
125°	164.4	164.4	169.1	173.7	176.0	169.1	159.8	152.9	145.9	134.3	127.4
127.5°	187.6	187.6	196.9	206.1	210.8	203.8	192.2	185.3	176.0	159.8	150.5
130°	210.8	210.8	224.7	238.6	245.5	240.9	229.3	220.0	208.5	187.6	176.0
132.5°	231.6	231.6	247.8	266.4	275.6	273.3	261.7	252.5	243.2	217.7	201.5
135°	247.8	250.1	271.0	291.8	303.4	305.7	294.1	282.6	271.0	243.2	224.7
137.5°	257.1	261.7	282.6	308.0	319.6	326.6	319.6	308.0	294.1	264.0	243.2
140°	259.4	261.7	284.9	310.4	321.9	331.2	331.2	317.3	305.7	275.6	252.5
142.5°	252.5	254.8	277.9	301.1	312.7	324.3	326.6	315.0	303.4	275.6	252.5
145°	236.2	240.9	261.7	280.2	296.5	308.0	312.7	305.7	291.8	266.4	245.5
147.5°	215.4	217.7	236.2	252.5	268.7	282.6	289.5	282.6	271.0	247.8	229.3
150°	183.0	185.3	199.2	213.1	231.6	245.5	254.8	250.1	240.9	222.3	203.8
152.5°	148.2	148.2	159.8	171.4	187.6	201.5	210.8	208.5	201.5	185.3	171.4
155°	113.5	113.5	120.4	129.7	143.6	152.9	162.1	162.1	157.5	145.9	134.3
157.5°	81.1	81.1	88.0	95.0	104.2	113.5	120.4	120.4	118.1	108.9	101.9
160°	53.3	53.3	57.9	62.5	71.8	76.4	83.4	83.4	81.1	76.4	71.8
162.5°	27.8	27.8	32.4	34.7	41.7	46.3	51.0	53.3	53.3	48.6	46.3
165°	9.3	9.3	9.3	11.6	16.2	20.8	23.2	25.5	25.5	23.2	23.2
167.5°	2.3	2.3	2.3	2.3	2.3	2.3	4.6	6.9	6.9	6.9	6.9
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°	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7
2.5°	4120.4	4331.1	4511.8	4701.7	4912.5	5090.8	5271.5	5371.1	5456.8	5440.5	5440.5
5°	3877.2	4087.9	4308.0	4539.6	4824.5	5116.3	5394.2	5593.4	5697.6	5713.9	5711.5
7.5°	3474.2	3671.0	3879.5	4136.6	4470.1	4826.8	5204.3	5517.0	5713.9	5750.9	5757.9
10°	3075.8	3224.0	3400.1	3576.1	3874.9	4201.4	4539.6	4789.7	4982.0	5009.8	5042.2
12.5°	2837.2	2918.3	3031.8	3154.5	3349.1	3587.7	3865.6	4009.2	4131.9	4145.8	4176.0
15°	2714.5	2753.9	2781.7	2825.7	2941.5	3089.7	3217.1	3358.4	3409.3	3444.1	3460.3
17.5°	2665.8	2661.2	2633.4	2633.4	2642.7	2698.3	2779.3	2828.0	2860.4	2876.6	2881.2
20°	2566.3	2524.6	2469.0	2394.9	2355.5	2337.0	2357.8	2369.4	2360.1	2348.5	2369.4
22.5°	2462.0	2374.0	2274.4	2188.7	2086.8	2024.3	1964.1	1943.2	1917.7	1934.0	1934.0
25°	2429.6	2274.4	2114.6	1971.0	1818.1	1713.9	1602.8	1563.4	1524.0	1556.4	1556.4
27.5°	1436.0	1436.0	1345.7	1225.2	1093.2	1037.6	993.6	968.1	951.9	958.9	958.9
30°	1285.4	1225.2	1169.6	1093.2	991.3	924.1	866.2	831.5	815.3	810.6	815.3
32.5°	1192.8	1146.5	1079.3	1002.9	912.5	838.4	773.6	738.8	713.4	718.0	720.3
35°	1067.7	1019.1	961.2	889.4	813.0	743.5	685.6	650.8	627.7	627.7	630.0
37.5°	989.0	940.3	884.8	819.9	745.8	678.6	625.4	583.7	562.8	560.5	560.5
40°	940.3	891.7	840.7	775.9	706.4	636.9	583.7	546.6	521.1	521.1	523.4
42.5°	852.3	806.0	762.0	704.1	641.6	581.3	530.4	498.0	472.5	467.9	472.5
45°	718.0	692.5	657.8	618.4	565.1	516.5	470.2	442.4	421.5	421.5	419.2
47.5°	657.8	632.3	595.2	555.9	511.9	463.2	426.2	400.7	382.2	382.2	382.2
50°	634.6	606.8	560.5	516.5	465.5	423.8	391.4	365.9	352.0	352.0	349.7
52.5°	646.2	602.2	542.0	479.4	430.8	389.1	356.7	331.2	319.6	319.6	317.3
55°	708.7	630.0	542.0	465.5	407.6	361.3	328.9	301.1	289.5	289.5	289.5
57.5°	734.2	646.2	537.3	451.6	386.8	338.2	298.8	273.3	261.7	261.7	259.4
60°	687.9	613.8	514.2	433.1	370.6	321.9	284.9	259.4	245.5	245.5	243.2
62.5°	586.0	532.7	456.3	396.1	347.4	303.4	271.0	245.5	233.9	233.9	233.9
65°	525.8	479.4	419.2	365.9	321.9	284.9	254.8	233.9	222.3	222.3	222.3
67.5°	491.0	451.6	391.4	340.5	296.5	261.7	233.9	215.4	206.1	203.8	206.1
70°	454.0	412.3	356.7	308.0	268.7	236.2	210.8	192.2	183.0	183.0	183.0
72.5°	414.6	375.2	321.9	277.9	238.6	213.1	187.6	171.4	162.1	162.1	159.8
75°	377.5	338.2	287.2	245.5	213.1	187.6	166.8	152.9	143.6	143.6	143.6
77.5°	342.8	305.7	257.1	220.0	189.9	169.1	148.2	136.7	129.7	129.7	127.4
80°	310.4	275.6	229.3	196.9	169.1	150.5	132.0	122.8	115.8	115.8	115.8
82.5°	277.9	245.5	203.8	173.7	150.5	132.0	118.1	108.9	104.2	101.9	104.2
85°	247.8	217.7	180.7	152.9	132.0	115.8	104.2	95.0	90.3	90.3	90.3
87.5°	220.0	192.2	159.8	134.3	115.8	101.9	90.3	83.4	81.1	78.7	78.7
90°	189.9	164.4	136.7	115.8	99.6	88.0	76.4	71.8	67.2	67.2	67.2
92.5°	169.1	148.2	122.8	104.2	90.3	81.1	71.8	67.2	62.5	62.5	62.5
95°	148.2	129.7	108.9	95.0	83.4	74.1	67.2	62.5	60.2	60.2	60.2
97.5°	127.4	113.5	97.3	85.7	76.4	69.5	62.5	57.9	55.6	55.6	55.6
100°	106.5	97.3	85.7	76.4	69.5	62.5	55.6	53.3	51.0	51.0	51.0
102.5°	88.0	81.1	71.8	64.9	57.9	53.3	48.6	46.3	44.0	44.0	44.0
105°	76.4	71.8	64.9	57.9	53.3	48.6	44.0	39.4	39.4	39.4	39.4
107.5°	71.8	64.9	60.2	55.6	51.0	44.0	41.7	37.1	34.7	34.7	34.7
110°	69.5	64.9	60.2	53.3	48.6	44.0	39.4	34.7	32.4	32.4	32.4

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CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	69.5	64.9	60.2	55.6	51.0	44.0	41.7	32.4	30.1	30.1	30.1
115°	74.1	69.5	62.5	57.9	51.0	46.3	41.7	32.4	30.1	30.1	30.1
117.5°	78.7	74.1	67.2	62.5	55.6	48.6	41.7	32.4	30.1	30.1	30.1
120°	90.3	83.4	74.1	67.2	60.2	51.0	44.0	32.4	27.8	30.1	30.1
122.5°	101.9	95.0	83.4	74.1	64.9	55.6	44.0	32.4	27.8	30.1	30.1
125°	120.4	108.9	95.0	83.4	69.5	57.9	46.3	32.4	25.5	27.8	30.1
127.5°	141.3	127.4	108.9	92.6	76.4	60.2	46.3	32.4	25.5	27.8	27.8
130°	164.4	145.9	122.8	99.6	81.1	62.5	46.3	32.4	25.5	27.8	27.8
132.5°	187.6	162.1	134.3	108.9	85.7	64.9	46.3	30.1	25.5	25.5	25.5
135°	206.1	176.0	143.6	113.5	88.0	64.9	44.0	30.1	23.2	23.2	23.2
137.5°	222.3	187.6	150.5	115.8	88.0	62.5	41.7	27.8	20.8	20.8	20.8
140°	231.6	192.2	152.9	113.5	83.4	60.2	39.4	25.5	18.5	18.5	18.5
142.5°	231.6	189.9	148.2	111.2	78.7	55.6	34.7	20.8	16.2	16.2	16.2
145°	222.3	180.7	141.3	104.2	71.8	48.6	30.1	18.5	13.9	13.9	13.9
147.5°	208.5	166.8	129.7	95.0	64.9	41.7	25.5	16.2	11.6	11.6	11.6
150°	185.3	148.2	113.5	81.1	55.6	34.7	20.8	13.9	9.3	9.3	9.3
152.5°	155.2	122.8	95.0	67.2	46.3	27.8	18.5	9.3	6.9	6.9	6.9
155°	122.8	97.3	74.1	53.3	34.7	20.8	13.9	9.3	4.6	4.6	4.6
157.5°	92.6	71.8	55.6	39.4	25.5	16.2	9.3	6.9	4.6	4.6	4.6
160°	64.9	51.0	37.1	25.5	16.2	11.6	6.9	4.6	2.3	2.3	2.3
162.5°	41.7	32.4	23.2	16.2	9.3	6.9	4.6	2.3	2.3	2.3	0.0
165°	20.8	16.2	11.6	6.9	4.6	2.3	2.3	2.3	0.0	0.0	0.0
167.5°	4.6	4.6	4.6	2.3	2.3	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)