

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: P691697

Luminaire Tested: **CRTK2-C018-D-U-T3-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691697
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-D-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: 5233 lumens
Efficiency: N/A
Efficacy: 103.8 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): 50.4
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



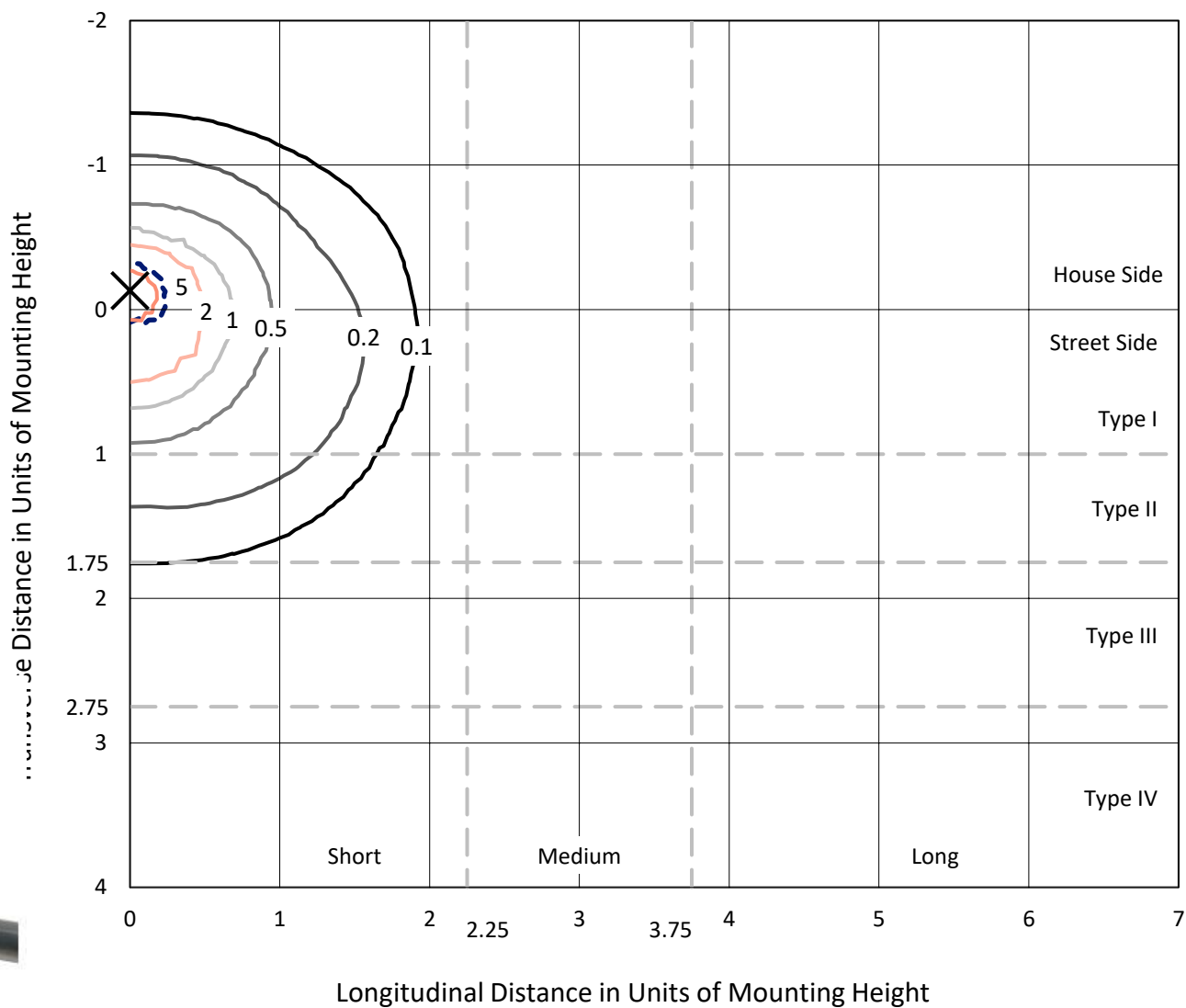
REPORT NUMBER: P691697

CATALOG NUMBER: CRTK2-C018-D-U-T3-7040-RMARROA5-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

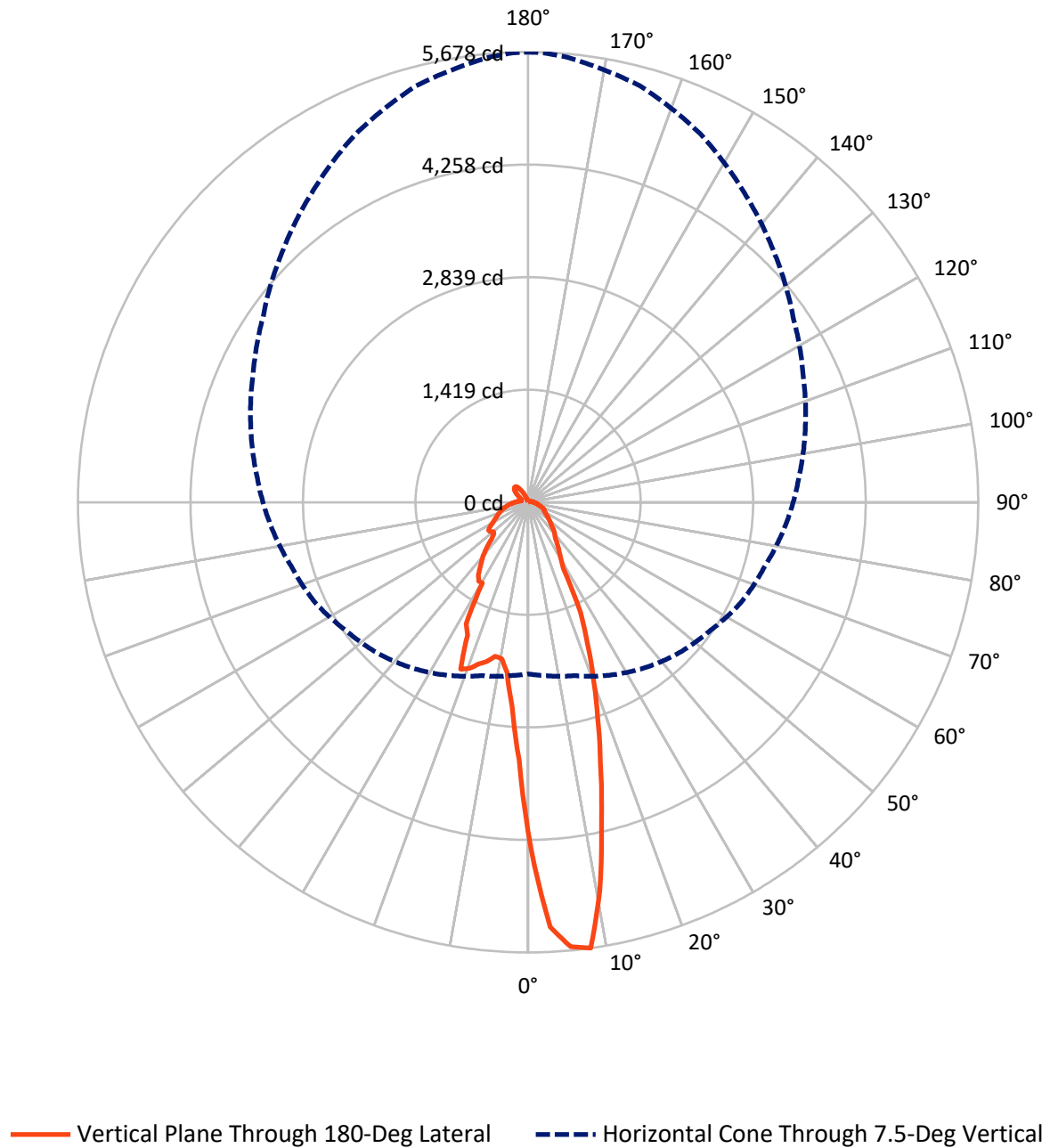


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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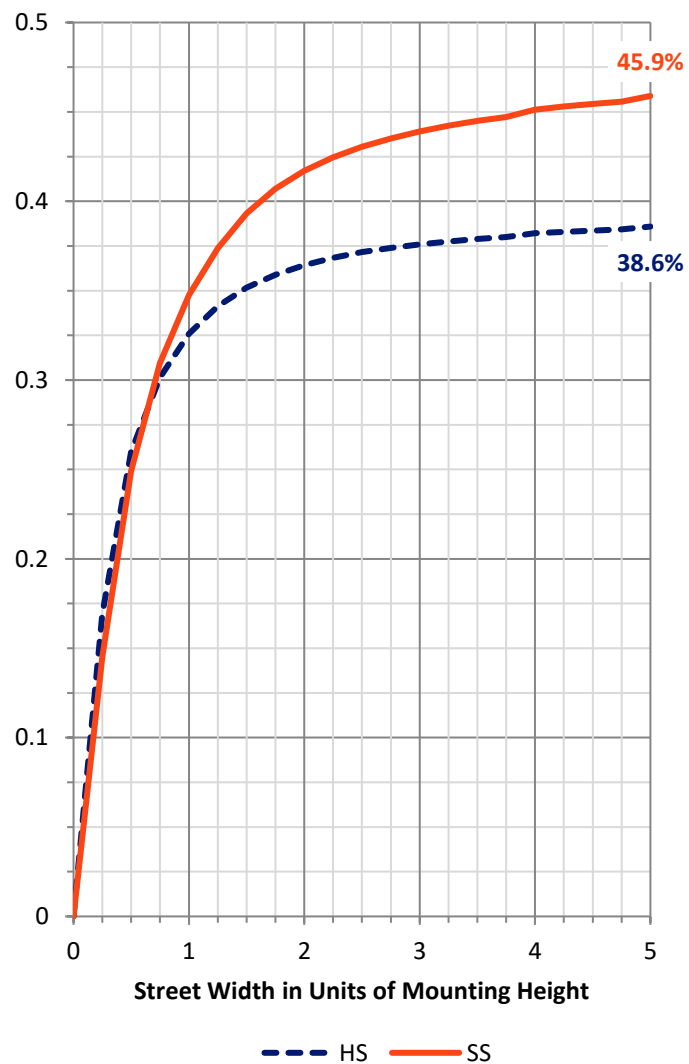
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2071.8	216.1	2287.9
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2470.6	474.5	2945.1
	% Fixture	47.2	9.1	56.3
Total	Lumens	4542.5	690.5	5233.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	6.7
10°-20°	750.0	14.3
20°-30°	828.2	15.8
30°-40°	600.7	11.5
40°-50°	506.1	9.7
50°-60°	516.7	9.9
60°-70°	440.3	8.4
70°-80°	328.3	6.3
80°-90°	221.6	4.2
90°-100°	132.4	2.5
100°-110°	76.2	1.5
110°-120°	71.2	1.4
120°-130°	103.7	2.0
130°-140°	140.9	2.7
140°-150°	114.7	2.2
150°-160°	45.8	0.9
160°-170°	5.6	0.1
170°-180°	0.0	0.0
0°-90°	4542.5	86.8
0°-180°	5233.0	100.0

Coefficient of Utilization



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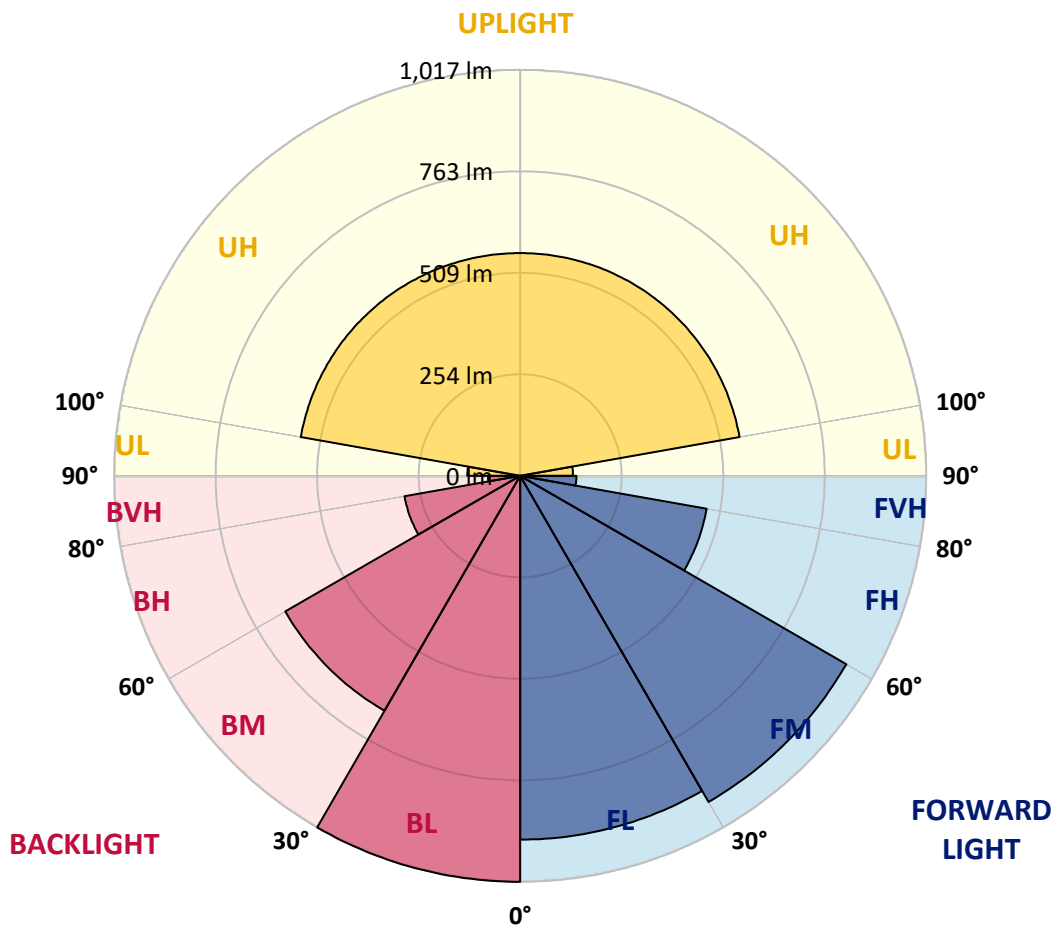
CATALOG NUMBER: CRTK2-C018-D-U-T3-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	911.6	17.4			
FM	(30°-60°)	943.7	18.0			
FH	(60°-80°)	474.3	9.1			G0/660
FVH	(80°-90°)	141.0	2.7			G2/225
BL	(0°-30°)	1017.3	19.4	B3/2500		
BM	(30°-60°)	679.7	13.0	B1/1000		
BH	(60°-80°)	294.2	5.6	B1/500		G1/500
BVH	(80°-90°)	80.6	1.5			G1/100
UL	(90°-100°)	132.4	2.5		U3/500	
UH	(100°-180°)	558.1	10.7		U4/1000	

BUG Rating: B3-U4-G2

Type I Short



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CATALOG NUMBER: CRTK2-C018-D-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8
2.5°	3247.6	3323.0	3329.8	3412.0	3473.7	3530.8	3571.9	3690.6	3811.7	3925.9	3992.1
5°	2578.4	2615.0	2681.2	2770.3	2884.5	2973.5	3101.4	3268.1	3428.0	3629.0	3727.2
7.5°	2165.1	2192.5	2263.3	2407.1	2551.0	2688.1	2811.4	2971.2	3094.6	3261.3	3343.5
10°	2000.6	2016.6	2076.0	2176.5	2313.5	2427.7	2535.0	2656.1	2765.7	2918.7	2978.1
12.5°	1984.6	1991.5	2039.4	2110.2	2190.2	2283.8	2372.9	2475.7	2592.1	2713.2	2758.9
15°	2071.4	2066.9	2082.8	2124.0	2169.6	2242.7	2324.9	2418.6	2530.5	2619.5	2656.1
17.5°	2133.1	2130.8	2160.5	2178.8	2222.2	2265.5	2347.8	2420.8	2530.5	2601.3	2621.8
20°	2222.2	2226.7	2235.9	2270.1	2288.4	2318.1	2368.3	2411.7	2505.3	2546.5	2541.9
22.5°	2270.1	2267.8	2306.7	2386.6	2407.1	2423.1	2432.3	2450.5	2503.1	2500.8	2466.5
25°	1840.8	1845.3	1854.5	1923.0	2009.8	2151.4	2267.8	2450.5	2548.7	2512.2	2439.1
27.5°	1719.7	1706.0	1658.1	1619.2	1502.8	1425.1	1352.0	1320.0	1336.0	1363.4	1438.8
30°	1171.6	1173.9	1178.4	1185.3	1196.7	1226.4	1247.0	1249.2	1265.2	1310.9	1294.9
32.5°	1173.9	1176.2	1169.3	1176.2	1171.6	1183.0	1180.7	1171.6	1185.3	1226.4	1210.4
35°	1103.1	1098.5	1103.1	1105.4	1080.2	1071.1	1068.8	1062.0	1071.1	1091.7	1078.0
37.5°	993.5	991.2	1011.7	1023.2	1002.6	1002.6	998.0	988.9	995.7	1014.0	995.7
40°	897.5	899.8	929.5	947.8	940.9	947.8	954.6	952.4	968.3	975.2	952.4
42.5°	792.5	787.9	817.6	831.3	817.6	822.2	819.9	822.2	854.1	867.9	851.9
45°	662.3	669.2	682.9	701.1	698.8	705.7	703.4	708.0	728.5	735.4	724.0
47.5°	589.2	593.8	609.8	630.3	641.8	653.2	653.2	655.5	669.2	671.4	660.0
50°	573.2	577.8	598.4	621.2	639.5	653.2	660.0	657.7	664.6	660.0	644.0
52.5°	600.6	600.6	632.6	660.0	682.9	708.0	717.1	708.0	708.0	689.7	664.6
55°	612.1	614.3	653.2	701.1	744.5	790.2	819.9	817.6	815.3	785.6	740.0
57.5°	575.5	582.4	621.2	676.0	735.4	808.5	851.9	858.7	858.7	819.9	769.6
60°	523.0	527.6	557.3	602.9	662.3	717.1	762.8	767.4	781.1	760.5	714.8
62.5°	479.6	484.2	509.3	543.5	586.9	621.2	634.9	634.9	641.8	634.9	602.9
65°	447.6	449.9	470.5	500.2	529.8	557.3	571.0	566.4	575.5	566.4	541.3
67.5°	417.9	417.9	436.2	459.0	486.5	518.4	527.6	532.1	541.3	529.8	507.0
70°	388.2	390.5	408.8	427.1	452.2	475.0	484.2	486.5	497.9	484.2	468.2
72.5°	363.1	363.1	379.1	397.4	415.7	438.5	445.3	449.9	456.8	443.1	429.4
75°	333.4	335.7	349.4	365.4	381.4	404.2	411.1	413.4	420.2	404.2	390.5
77.5°	306.0	308.3	319.7	333.4	349.4	367.7	374.5	379.1	381.4	367.7	354.0
80°	278.6	280.9	290.0	303.7	317.5	335.7	340.3	342.6	347.1	331.2	322.0
82.5°	253.5	253.5	260.4	271.8	285.5	301.5	308.3	310.6	312.9	299.2	290.0
85°	223.8	223.8	230.7	242.1	253.5	269.5	276.3	278.6	278.6	267.2	258.1
87.5°	198.7	198.7	203.3	212.4	221.5	237.5	244.4	248.9	246.7	237.5	228.4
90°	173.6	173.6	178.1	185.0	194.1	207.8	214.7	217.0	217.0	205.5	198.7
92.5°	150.7	150.7	155.3	162.2	169.0	180.4	187.3	191.8	191.8	182.7	175.9
95°	130.2	130.2	132.5	139.3	146.2	155.3	159.9	164.4	164.4	159.9	153.0
97.5°	111.9	111.9	114.2	118.8	123.3	130.2	134.7	139.3	139.3	137.0	132.5
100°	98.2	98.2	98.2	100.5	105.1	107.3	111.9	116.5	116.5	114.2	111.9
102.5°	89.1	89.1	89.1	89.1	89.1	91.4	91.4	93.6	93.6	93.6	91.4
105°	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	82.2	79.9	77.6
107.5°	84.5	82.2	82.2	82.2	82.2	79.9	79.9	79.9	77.6	75.4	73.1
110°	84.5	84.5	84.5	84.5	82.2	79.9	79.9	77.6	75.4	73.1	70.8

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CATALOG NUMBER: CRTK2-C018-D-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89.1	89.1	89.1	86.8	84.5	84.5	82.2	79.9	77.6	73.1	70.8
115°	95.9	95.9	95.9	95.9	93.6	89.1	86.8	84.5	79.9	77.6	75.4
117.5°	107.3	107.3	107.3	107.3	102.8	100.5	95.9	93.6	89.1	84.5	82.2
120°	121.0	121.0	123.3	123.3	121.0	116.5	109.6	107.3	102.8	95.9	91.4
122.5°	141.6	139.3	143.9	143.9	143.9	139.3	130.2	125.6	121.0	111.9	107.3
125°	162.2	162.2	166.7	171.3	173.6	166.7	157.6	150.7	143.9	132.5	125.6
127.5°	185.0	185.0	194.1	203.3	207.8	201.0	189.6	182.7	173.6	157.6	148.4
130°	207.8	207.8	221.5	235.2	242.1	237.5	226.1	217.0	205.5	185.0	173.6
132.5°	228.4	228.4	244.4	262.6	271.8	269.5	258.1	248.9	239.8	214.7	198.7
135°	244.4	246.7	267.2	287.8	299.2	301.5	290.0	278.6	267.2	239.8	221.5
137.5°	253.5	258.1	278.6	303.7	315.2	322.0	315.2	303.7	290.0	260.4	239.8
140°	255.8	258.1	280.9	306.0	317.5	326.6	326.6	312.9	301.5	271.8	248.9
142.5°	248.9	251.2	274.1	296.9	308.3	319.7	322.0	310.6	299.2	271.8	248.9
145°	232.9	237.5	258.1	276.3	292.3	303.7	308.3	301.5	287.8	262.6	242.1
147.5°	212.4	214.7	232.9	248.9	264.9	278.6	285.5	278.6	267.2	244.4	226.1
150°	180.4	182.7	196.4	210.1	228.4	242.1	251.2	246.7	237.5	219.2	201.0
152.5°	146.2	146.2	157.6	169.0	185.0	198.7	207.8	205.5	198.7	182.7	169.0
155°	111.9	111.9	118.8	127.9	141.6	150.7	159.9	159.9	155.3	143.9	132.5
157.5°	79.9	79.9	86.8	93.6	102.8	111.9	118.8	118.8	116.5	107.3	100.5
160°	52.5	52.5	57.1	61.7	70.8	75.4	82.2	82.2	79.9	75.4	70.8
162.5°	27.4	27.4	32.0	34.3	41.1	45.7	50.2	52.5	52.5	48.0	45.7
165°	9.1	9.1	9.1	11.4	16.0	20.6	22.8	25.1	25.1	22.8	22.8
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°	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8	4375.8
2.5°	4062.9	4270.7	4448.9	4636.1	4844.0	5019.8	5198.0	5296.2	5380.7	5364.7	5364.7
5°	3823.1	4030.9	4247.9	4476.3	4757.2	5045.0	5319.0	5515.4	5618.2	5634.2	5631.9
7.5°	3425.7	3619.9	3825.4	4078.9	4407.8	4759.5	5131.7	5440.1	5634.2	5670.7	5677.6
10°	3032.9	3179.1	3352.6	3526.2	3820.8	4142.8	4476.3	4722.9	4912.5	4939.9	4971.9
12.5°	2797.7	2877.6	2989.5	3110.6	3302.4	3537.6	3811.7	3953.3	4074.3	4088.0	4117.7
15°	2676.6	2715.5	2742.9	2786.3	2900.4	3046.6	3172.2	3311.5	3361.8	3396.0	3412.0
17.5°	2628.7	2624.1	2596.7	2596.7	2605.8	2660.6	2740.6	2788.5	2820.5	2836.5	2841.1
20°	2530.5	2489.4	2434.5	2361.5	2322.6	2304.4	2324.9	2336.3	2327.2	2315.8	2336.3
22.5°	2427.7	2340.9	2242.7	2158.2	2057.7	1996.1	1936.7	1916.1	1891.0	1907.0	1907.0
25°	2395.7	2242.7	2085.1	1943.5	1792.8	1690.0	1580.4	1541.6	1502.8	1534.7	1534.7
27.5°	1416.0	1416.0	1326.9	1208.1	1078.0	1023.2	979.8	954.6	938.6	945.5	945.5
30°	1267.5	1208.1	1153.3	1078.0	977.5	911.2	854.1	819.9	803.9	799.3	803.9
32.5°	1176.2	1130.5	1064.3	988.9	899.8	826.7	762.8	728.5	703.4	708.0	710.3
35°	1052.8	1004.9	947.8	877.0	801.6	733.1	676.0	641.8	618.9	618.9	621.2
37.5°	975.2	927.2	872.4	808.5	735.4	669.2	616.6	575.5	555.0	552.7	552.7
40°	927.2	879.3	829.0	765.1	696.6	628.0	575.5	539.0	513.9	513.9	516.1
42.5°	840.4	794.8	751.4	694.3	632.6	573.2	523.0	491.0	465.9	461.3	465.9
45°	708.0	682.9	648.6	609.8	557.3	509.3	463.6	436.2	415.7	415.7	413.4
47.5°	648.6	623.5	586.9	548.1	504.7	456.8	420.2	395.1	376.8	376.8	376.8
50°	625.8	598.4	552.7	509.3	459.0	417.9	386.0	360.8	347.1	347.1	344.9
52.5°	637.2	593.8	534.4	472.8	424.8	383.7	351.7	326.6	315.2	315.2	312.9
55°	698.8	621.2	534.4	459.0	402.0	356.3	324.3	296.9	285.5	285.5	285.5
57.5°	724.0	637.2	529.8	445.3	381.4	333.4	294.6	269.5	258.1	258.1	255.8
60°	678.3	605.2	507.0	427.1	365.4	317.5	280.9	255.8	242.1	242.1	239.8
62.5°	577.8	525.3	449.9	390.5	342.6	299.2	267.2	242.1	230.7	230.7	230.7
65°	518.4	472.8	413.4	360.8	317.5	280.9	251.2	230.7	219.2	219.2	219.2
67.5°	484.2	445.3	386.0	335.7	292.3	258.1	230.7	212.4	203.3	201.0	203.3
70°	447.6	406.5	351.7	303.7	264.9	232.9	207.8	189.6	180.4	180.4	180.4
72.5°	408.8	370.0	317.5	274.1	235.2	210.1	185.0	169.0	159.9	159.9	157.6
75°	372.3	333.4	283.2	242.1	210.1	185.0	164.4	150.7	141.6	141.6	141.6
77.5°	338.0	301.5	253.5	217.0	187.3	166.7	146.2	134.7	127.9	127.9	125.6
80°	306.0	271.8	226.1	194.1	166.7	148.4	130.2	121.0	114.2	114.2	114.2
82.5°	274.1	242.1	201.0	171.3	148.4	130.2	116.5	107.3	102.8	100.5	102.8
85°	244.4	214.7	178.1	150.7	130.2	114.2	102.8	93.6	89.1	89.1	89.1
87.5°	217.0	189.6	157.6	132.5	114.2	100.5	89.1	82.2	79.9	77.6	77.6
90°	187.3	162.2	134.7	114.2	98.2	86.8	75.4	70.8	66.2	66.2	66.2
92.5°	166.7	146.2	121.0	102.8	89.1	79.9	70.8	66.2	61.7	61.7	61.7
95°	146.2	127.9	107.3	93.6	82.2	73.1	66.2	61.7	59.4	59.4	59.4
97.5°	125.6	111.9	95.9	84.5	75.4	68.5	61.7	57.1	54.8	54.8	54.8
100°	105.1	95.9	84.5	75.4	68.5	61.7	54.8	52.5	50.2	50.2	50.2
102.5°	86.8	79.9	70.8	63.9	57.1	52.5	48.0	45.7	43.4	43.4	43.4
105°	75.4	70.8	63.9	57.1	52.5	48.0	43.4	38.8	38.8	38.8	38.8
107.5°	70.8	63.9	59.4	54.8	50.2	43.4	41.1	36.5	34.3	34.3	34.3
110°	68.5	63.9	59.4	52.5	48.0	43.4	38.8	34.3	32.0	32.0	32.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	68.5	63.9	59.4	54.8	50.2	43.4	41.1	32.0	29.7	29.7	29.7
115°	73.1	68.5	61.7	57.1	50.2	45.7	41.1	32.0	29.7	29.7	29.7
117.5°	77.6	73.1	66.2	61.7	54.8	48.0	41.1	32.0	29.7	29.7	29.7
120°	89.1	82.2	73.1	66.2	59.4	50.2	43.4	32.0	27.4	29.7	29.7
122.5°	100.5	93.6	82.2	73.1	63.9	54.8	43.4	32.0	27.4	29.7	29.7
125°	118.8	107.3	93.6	82.2	68.5	57.1	45.7	32.0	25.1	27.4	29.7
127.5°	139.3	125.6	107.3	91.4	75.4	59.4	45.7	32.0	25.1	27.4	27.4
130°	162.2	143.9	121.0	98.2	79.9	61.7	45.7	32.0	25.1	27.4	27.4
132.5°	185.0	159.9	132.5	107.3	84.5	63.9	45.7	29.7	25.1	25.1	25.1
135°	203.3	173.6	141.6	111.9	86.8	63.9	43.4	29.7	22.8	22.8	22.8
137.5°	219.2	185.0	148.4	114.2	86.8	61.7	41.1	27.4	20.6	20.6	20.6
140°	228.4	189.6	150.7	111.9	82.2	59.4	38.8	25.1	18.3	18.3	18.3
142.5°	228.4	187.3	146.2	109.6	77.6	54.8	34.3	20.6	16.0	16.0	16.0
145°	219.2	178.1	139.3	102.8	70.8	48.0	29.7	18.3	13.7	13.7	13.7
147.5°	205.5	164.4	127.9	93.6	63.9	41.1	25.1	16.0	11.4	11.4	11.4
150°	182.7	146.2	111.9	79.9	54.8	34.3	20.6	13.7	9.1	9.1	9.1
152.5°	153.0	121.0	93.6	66.2	45.7	27.4	18.3	9.1	6.9	6.9	6.9
155°	121.0	95.9	73.1	52.5	34.3	20.6	13.7	9.1	4.6	4.6	4.6
157.5°	91.4	70.8	54.8	38.8	25.1	16.0	9.1	6.9	4.6	4.6	4.6
160°	63.9	50.2	36.5	25.1	16.0	11.4	6.9	4.6	2.3	2.3	2.3
162.5°	41.1	32.0	22.8	16.0	9.1	6.9	4.6	2.3	2.3	2.3	0.0
165°	20.6	16.0	11.4	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)