

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: P691657

Luminaire Tested: **CRTK2-C018-D-U-T2-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691657
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-C018-D-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: 4982 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: B2 - 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



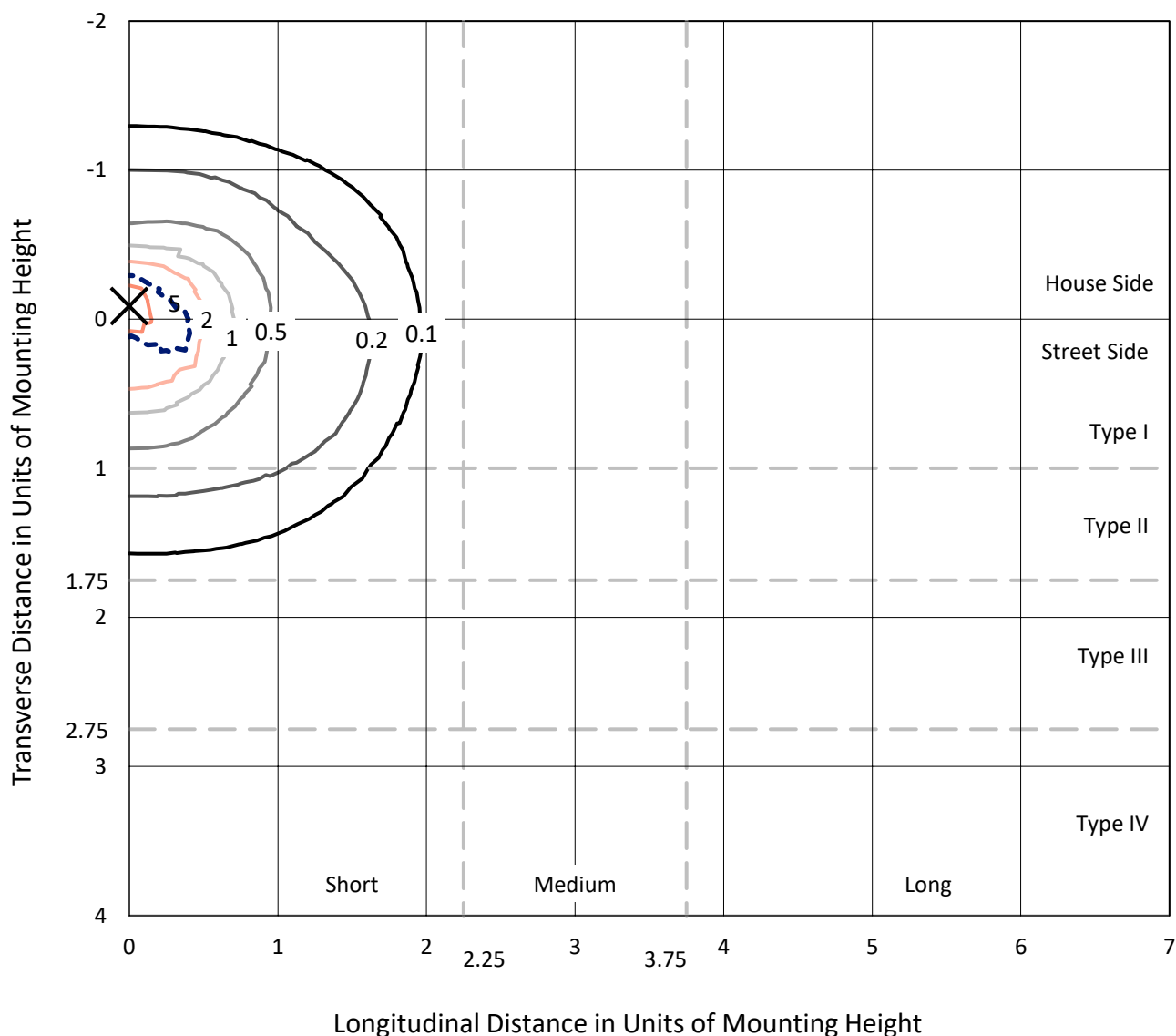
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

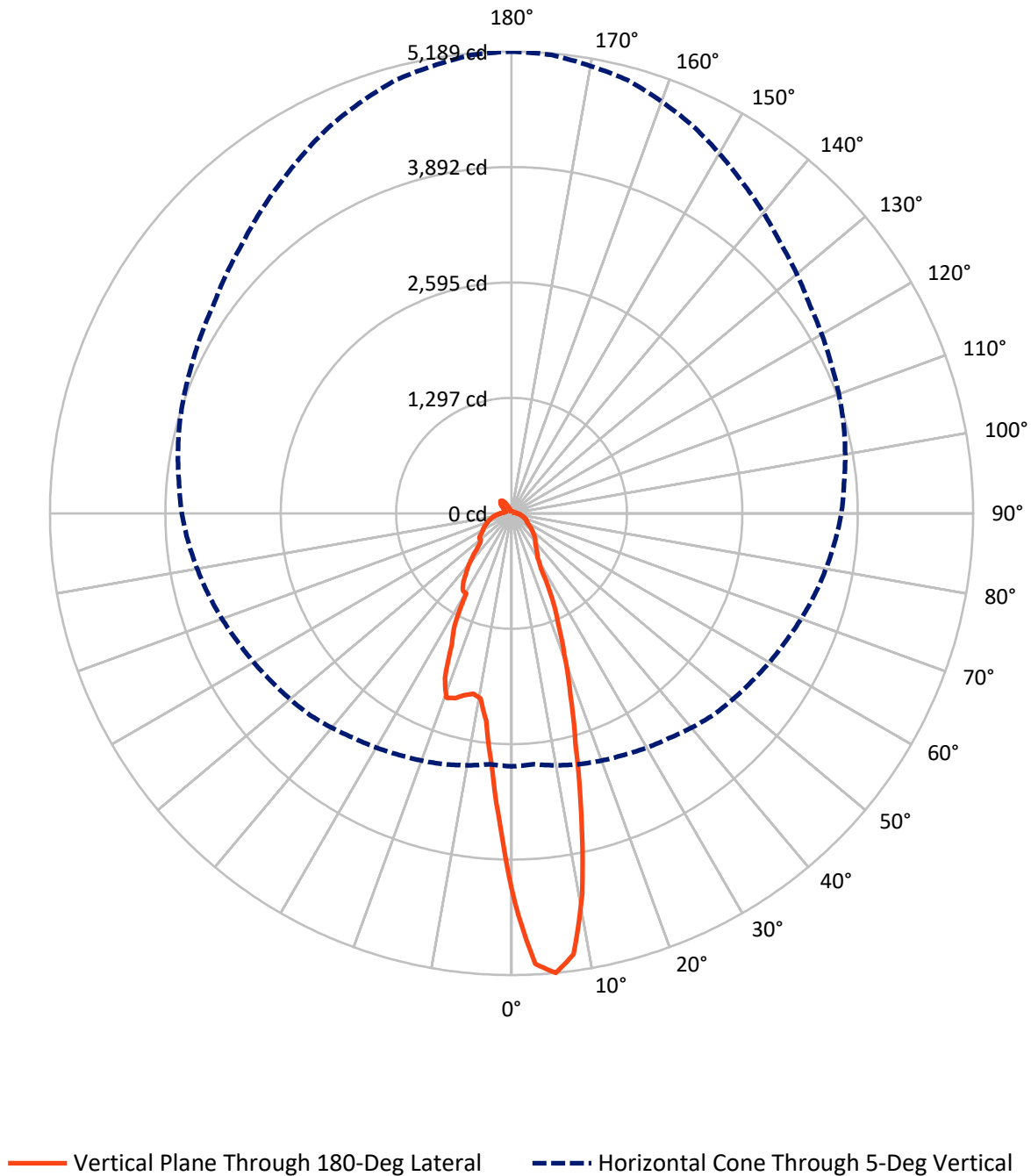


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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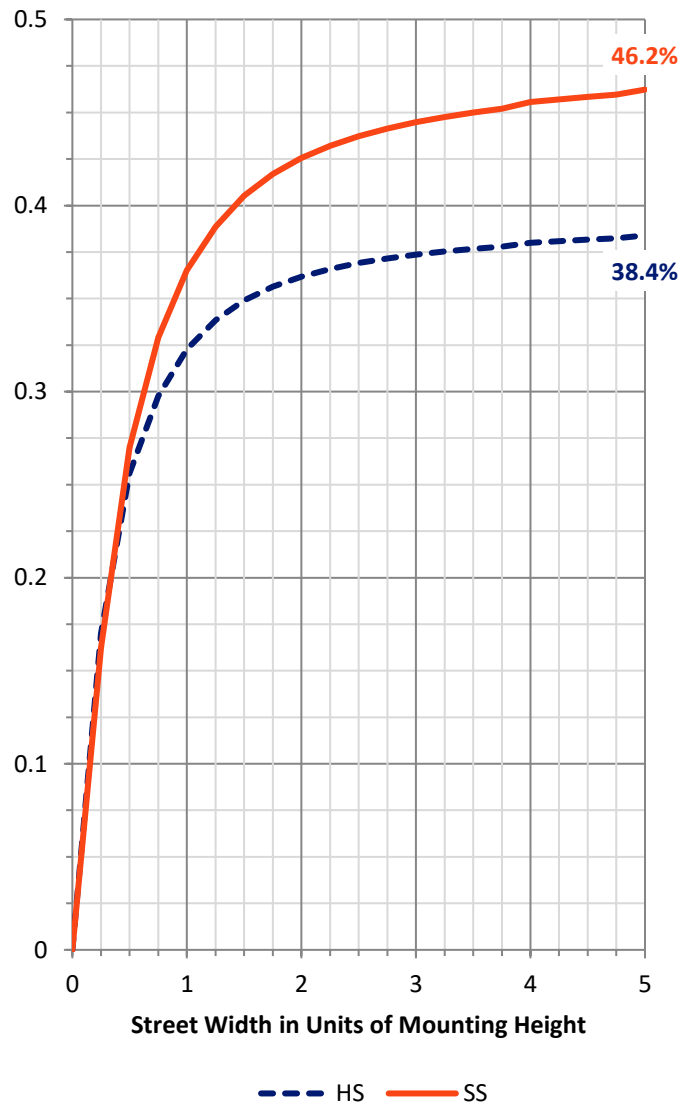
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1963.3	230.5	2193.9
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2359.6	428.5	2788.1
	% Fixture	47.4	8.6	56.0
Total	Lumens	4323.0	659.0	4982.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.0	6.8
10°-20°	719.4	14.4
20°-30°	782.9	15.7
30°-40°	573.1	11.5
40°-50°	481.8	9.7
50°-60°	489.3	9.8
60°-70°	415.9	8.3
70°-80°	310.4	6.2
80°-90°	211.2	4.2
90°-100°	126.9	2.5
100°-110°	72.7	1.5
110°-120°	67.0	1.3
120°-130°	97.3	2.0
130°-140°	133.8	2.7
140°-150°	110.7	2.2
150°-160°	45.1	0.9
160°-170°	5.6	0.1
170°-180°	0.0	0.0
0°-90°	4323.0	86.8
0°-180°	4982.0	100.0

Coefficient of Utilization



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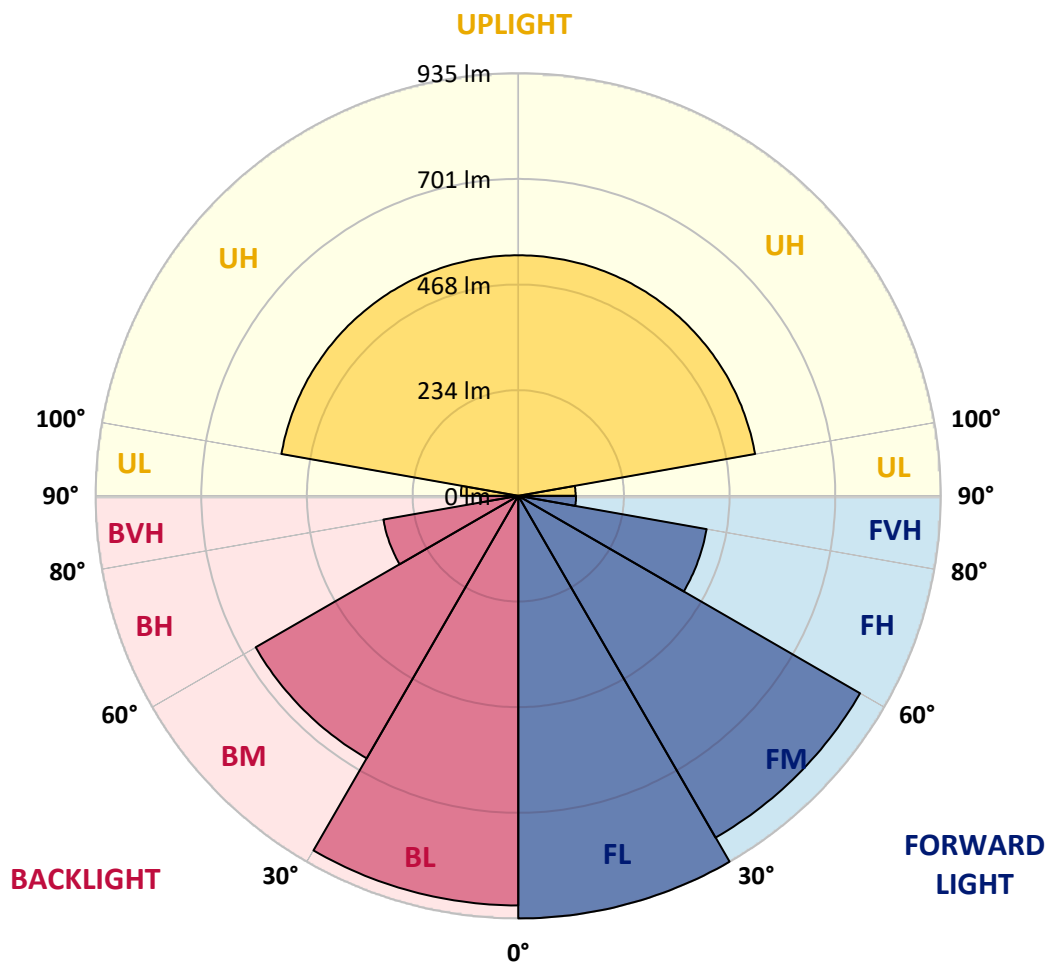
CATALOG NUMBER: CRTK2-C018-D-U-T2-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	935.1	18.8			
FM	(30°-60°)	873.4	17.5			
FH	(60°-80°)	423.2	8.5			G0/660
FVH	(80°-90°)	127.9	2.6			G2/225
BL	(0°-30°)	906.2	18.2	B2/1000		
BM	(30°-60°)	670.8	13.5	B1/1000		
BH	(60°-80°)	303.1	6.1	B1/500		G1/500
BVH	(80°-90°)	83.3	1.7			G1/100
UL	(90°-100°)	126.9	2.5		U3/500	
UH	(100°-180°)	532.1	10.7		U4/1000	

BUG Rating: B2-U4-G2

Type I Short



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CATALOG NUMBER: CRTK2-C018-D-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	3532.0	3525.4	3574.2	3585.3	3589.7	3640.7	3709.5	3756.1	3840.4	3922.5	3955.8
5°	2844.3	2830.9	2919.7	2995.1	3086.1	3205.9	3294.6	3401.1	3527.6	3649.6	3707.3
7.5°	2345.1	2362.8	2489.3	2644.6	2791.0	2933.0	3041.7	3132.7	3205.9	3283.5	3299.1
10°	2109.9	2125.4	2249.7	2398.3	2533.7	2677.9	2771.0	2848.7	2895.3	2953.0	2972.9
12.5°	2072.2	2083.3	2167.6	2271.9	2373.9	2504.8	2622.4	2708.9	2762.2	2808.8	2813.2
15°	2109.9	2114.3	2165.4	2234.1	2322.9	2431.6	2566.9	2664.6	2724.5	2744.4	2740.0
17.5°	2172.0	2172.0	2196.4	2254.1	2338.4	2442.7	2571.4	2671.2	2733.3	2742.2	2724.5
20°	2198.6	2203.1	2218.6	2283.0	2358.4	2453.8	2582.5	2666.8	2715.6	2691.2	2660.1
22.5°	1999.0	1990.1	2032.2	2167.6	2336.2	2507.0	2629.1	2724.5	2751.1	2669.0	2602.4
25°	1617.4	1621.8	1648.4	1715.0	1845.9	2003.4	2274.1	2564.7	2766.6	2735.5	2635.7
27.5°	1411.0	1397.7	1404.4	1415.5	1397.7	1364.4	1395.5	1388.9	1384.4	1464.3	1473.2
30°	1036.1	1038.3	1049.4	1069.4	1111.5	1173.6	1240.2	1277.9	1311.2	1373.3	1364.4
32.5°	1029.4	1031.7	1038.3	1056.1	1078.2	1120.4	1162.6	1178.1	1213.6	1264.6	1249.1
35°	962.9	956.2	974.0	989.5	996.2	1013.9	1047.2	1069.4	1091.6	1127.1	1118.2
37.5°	854.2	856.4	891.9	916.3	922.9	947.3	978.4	996.2	1020.6	1051.6	1036.1
40°	761.0	763.2	805.4	832.0	847.5	880.8	927.4	949.6	989.5	1013.9	996.2
42.5°	654.5	663.4	692.2	723.3	732.1	752.1	783.2	812.0	863.0	896.3	885.2
45°	545.8	550.2	570.2	601.2	614.6	636.7	665.6	692.2	732.1	758.8	756.5
47.5°	481.4	485.9	503.6	530.2	556.9	585.7	616.8	643.4	681.1	703.3	694.4
50°	454.8	459.3	481.4	512.5	545.8	583.5	621.2	650.1	685.6	698.9	687.8
52.5°	459.3	459.3	490.3	530.2	576.8	627.9	674.5	710.0	738.8	747.7	723.3
55°	434.8	441.5	474.8	530.2	601.2	681.1	761.0	836.4	878.6	869.7	823.1
57.5°	397.1	403.8	428.2	488.1	563.5	658.9	772.1	865.3	916.3	922.9	876.4
60°	374.9	379.4	401.6	448.2	514.7	592.4	694.4	769.9	827.5	845.3	812.0
62.5°	355.0	359.4	377.2	412.7	461.5	521.4	579.1	627.9	674.5	692.2	678.9
65°	332.8	335.0	352.8	383.8	423.8	474.8	523.6	559.1	596.8	607.9	592.4
67.5°	310.6	312.8	328.4	357.2	394.9	441.5	479.2	519.2	556.9	565.7	554.7
70°	290.6	292.9	306.2	332.8	366.1	410.4	445.9	472.6	510.3	519.2	505.8
72.5°	270.7	272.9	286.2	310.6	341.7	381.6	412.7	439.3	470.3	472.6	461.5
75°	250.7	252.9	264.0	286.2	312.8	352.8	381.6	403.8	430.4	430.4	417.1
77.5°	228.5	233.0	241.8	261.8	286.2	323.9	350.5	372.7	394.9	392.7	379.4
80°	208.5	210.8	219.6	237.4	259.6	295.1	321.7	339.4	359.4	357.2	346.1
82.5°	186.4	188.6	195.2	213.0	233.0	266.2	292.9	310.6	328.4	323.9	312.8
85°	164.2	166.4	175.3	188.6	208.5	239.6	264.0	281.8	295.1	290.6	281.8
87.5°	146.4	146.4	153.1	166.4	184.1	213.0	235.2	252.9	264.0	261.8	252.9
90°	126.5	128.7	133.1	144.2	159.7	184.1	206.3	221.9	233.0	228.5	219.6
92.5°	110.9	110.9	115.4	126.5	139.8	162.0	181.9	195.2	204.1	201.9	195.2
95°	95.4	97.6	99.8	108.7	119.8	137.6	155.3	168.6	177.5	175.3	170.8
97.5°	84.3	86.5	88.7	93.2	104.3	115.4	130.9	142.0	150.9	148.6	144.2
100°	77.7	77.7	77.7	82.1	88.7	97.6	108.7	117.6	122.0	124.2	119.8
102.5°	71.0	71.0	73.2	73.2	77.7	82.1	88.7	95.4	97.6	97.6	97.6
105°	68.8	68.8	71.0	71.0	73.2	75.4	79.9	82.1	84.3	84.3	82.1
107.5°	68.8	68.8	68.8	68.8	71.0	73.2	75.4	77.7	77.7	77.7	75.4
110°	71.0	71.0	71.0	71.0	71.0	73.2	73.2	75.4	75.4	73.2	73.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	73.2	73.2	73.2	73.2	73.2	75.4	75.4	75.4	75.4	73.2	73.2
115°	77.7	77.7	77.7	79.9	79.9	79.9	79.9	79.9	79.9	77.7	75.4
117.5°	86.5	86.5	86.5	86.5	88.7	88.7	88.7	88.7	88.7	84.3	84.3
120°	97.6	95.4	97.6	99.8	102.1	102.1	102.1	102.1	102.1	97.6	95.4
122.5°	108.7	108.7	110.9	115.4	119.8	122.0	119.8	119.8	119.8	113.1	110.9
125°	122.0	122.0	128.7	137.6	144.2	146.4	144.2	144.2	144.2	137.6	133.1
127.5°	137.6	137.6	146.4	159.7	170.8	177.5	175.3	175.3	175.3	164.2	157.5
130°	153.1	153.1	166.4	184.1	201.9	206.3	208.5	210.8	210.8	197.5	188.6
132.5°	164.2	166.4	181.9	206.3	228.5	235.2	241.8	244.0	244.0	228.5	215.2
135°	175.3	177.5	197.5	226.3	250.7	266.2	272.9	275.1	277.3	259.6	244.0
137.5°	181.9	184.1	206.3	239.6	264.0	284.0	299.5	303.9	303.9	284.0	264.0
140°	181.9	184.1	208.5	239.6	266.2	290.6	308.4	317.3	317.3	297.3	279.5
142.5°	177.5	181.9	204.1	235.2	261.8	286.2	306.2	315.0	315.0	297.3	279.5
145°	168.6	170.8	193.0	219.6	246.3	275.1	297.3	306.2	306.2	288.4	270.7
147.5°	153.1	155.3	173.1	197.5	224.1	252.9	275.1	286.2	284.0	268.5	252.9
150°	133.1	133.1	148.6	168.6	195.2	221.9	244.0	255.1	255.1	239.6	226.3
152.5°	108.7	108.7	119.8	135.3	157.5	184.1	201.9	213.0	213.0	201.9	190.8
155°	84.3	84.3	93.2	104.3	122.0	142.0	155.3	166.4	166.4	157.5	148.6
157.5°	59.9	59.9	68.8	77.7	91.0	106.5	117.6	124.2	126.5	117.6	113.1
160°	39.9	39.9	44.4	51.0	62.1	73.2	79.9	86.5	88.7	82.1	79.9
162.5°	22.2	22.2	24.4	31.1	37.7	44.4	51.0	55.5	55.5	53.2	51.0
165°	6.7	6.7	8.9	11.1	15.5	20.0	22.2	24.4	26.6	26.6	24.4
167.5°	0.0	0.0	2.2	2.2	2.2	2.2	4.4	4.4	6.7	6.7	6.7
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°	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5	4379.5
2.5°	4024.6	4148.8	4284.1	4415.0	4574.8	4741.2	4894.3	4998.5	5054.0	5071.7	5071.7
5°	3751.7	3864.8	3964.7	4088.9	4281.9	4532.6	4810.0	5040.7	5171.6	5187.1	5189.3
7.5°	3325.7	3418.9	3523.2	3634.1	3804.9	4029.0	4395.1	4767.8	4980.8	5020.7	5005.2
10°	2977.4	3035.1	3097.2	3139.3	3259.1	3425.5	3674.0	4040.1	4301.9	4332.9	4355.1
12.5°	2815.4	2824.3	2806.5	2815.4	2855.4	2933.0	3055.0	3265.8	3436.6	3465.5	3481.0
15°	2733.3	2689.0	2618.0	2551.4	2515.9	2522.6	2549.2	2635.7	2664.6	2713.4	2691.2
17.5°	2695.6	2595.8	2484.8	2356.2	2276.3	2194.2	2149.8	2134.3	2123.2	2125.4	2145.4
20°	2600.2	2487.1	2309.6	2141.0	2012.3	1899.1	1803.7	1735.0	1697.2	1679.5	1692.8
22.5°	2500.4	2325.1	2116.6	1934.6	1750.5	1606.3	1497.6	1397.7	1342.3	1357.8	1340.0
25°	2502.6	2240.8	1992.3	1752.7	1579.7	1388.9	1215.8	1111.5	1020.6	1038.3	1062.7
27.5°	1577.4	1508.7	1331.2	1191.4	1018.3	922.9	836.4	763.2	712.2	714.4	707.7
30°	1337.8	1266.8	1178.1	1067.2	936.3	825.3	725.5	641.2	592.4	579.1	576.8
32.5°	1235.8	1175.9	1093.8	985.1	865.3	754.3	654.5	576.8	528.0	525.8	525.8
35°	1100.4	1045.0	976.2	883.0	781.0	678.9	585.7	519.2	479.2	479.2	477.0
37.5°	1016.1	967.3	900.8	814.2	723.3	621.2	539.1	479.2	437.1	434.8	437.1
40°	971.8	920.7	856.4	774.3	683.3	585.7	508.1	445.9	414.9	412.7	410.4
42.5°	883.0	843.1	787.6	712.2	632.3	545.8	472.6	417.1	390.5	388.3	390.5
45°	749.9	721.0	683.3	627.9	561.3	488.1	423.8	381.6	355.0	355.0	355.0
47.5°	687.8	661.1	619.0	563.5	505.8	437.1	383.8	348.3	323.9	323.9	323.9
50°	672.2	639.0	583.5	521.4	459.3	399.4	350.5	315.0	297.3	295.1	297.3
52.5°	694.4	643.4	568.0	494.8	426.0	368.3	321.7	288.4	270.7	270.7	270.7
55°	774.3	681.1	581.3	488.1	406.0	341.7	295.1	261.8	244.0	241.8	244.0
57.5°	827.5	710.0	585.7	481.4	392.7	323.9	272.9	237.4	219.6	217.4	219.6
60°	781.0	685.6	565.7	463.7	381.6	310.6	257.4	221.9	204.1	201.9	201.9
62.5°	647.8	592.4	505.8	419.3	352.8	290.6	241.8	208.5	190.8	188.6	190.8
65°	574.6	525.8	450.4	381.6	323.9	270.7	228.5	199.7	181.9	181.9	181.9
67.5°	534.7	490.3	419.3	352.8	299.5	250.7	210.8	184.1	168.6	168.6	168.6
70°	488.1	443.7	379.4	319.5	270.7	228.5	193.0	166.4	153.1	150.9	153.1
72.5°	448.2	403.8	343.9	288.4	244.0	206.3	175.3	150.9	139.8	137.6	139.8
75°	403.8	361.6	303.9	255.1	217.4	184.1	157.5	135.3	126.5	124.2	124.2
77.5°	366.1	326.1	272.9	228.5	195.2	164.2	139.8	124.2	115.4	113.1	113.1
80°	332.8	295.1	244.0	204.1	173.1	146.4	126.5	110.9	102.1	102.1	102.1
82.5°	297.3	264.0	217.4	179.7	153.1	130.9	110.9	97.6	91.0	91.0	91.0
85°	268.5	235.2	190.8	159.7	133.1	113.1	97.6	86.5	79.9	79.9	79.9
87.5°	237.4	208.5	168.6	139.8	117.6	99.8	84.3	73.2	71.0	68.8	68.8
90°	206.3	179.7	144.2	119.8	99.8	84.3	71.0	62.1	59.9	57.7	57.7
92.5°	184.1	159.7	130.9	108.7	91.0	75.4	66.6	57.7	55.5	55.5	53.2
95°	159.7	139.8	115.4	97.6	82.1	71.0	62.1	55.5	53.2	53.2	51.0
97.5°	137.6	119.8	102.1	88.7	75.4	66.6	57.7	53.2	48.8	48.8	48.8
100°	115.4	102.1	88.7	75.4	68.8	59.9	53.2	48.8	46.6	44.4	44.4
102.5°	93.2	84.3	73.2	66.6	57.7	51.0	46.6	42.2	39.9	39.9	39.9
105°	79.9	73.2	66.6	59.9	53.2	46.6	42.2	37.7	35.5	35.5	35.5
107.5°	73.2	68.8	62.1	55.5	51.0	44.4	39.9	33.3	31.1	33.3	33.3
110°	71.0	66.6	59.9	55.5	48.8	44.4	39.9	31.1	28.8	31.1	31.1



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CATALOG NUMBER: CRTK2-C018-D-U-T2-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	71.0	66.6	62.1	55.5	51.0	44.4	39.9	31.1	28.8	28.8	28.8
115°	73.2	71.0	64.3	59.9	53.2	46.6	39.9	31.1	28.8	28.8	28.8
117.5°	82.1	77.7	71.0	64.3	57.7	48.8	42.2	31.1	28.8	28.8	28.8
120°	91.0	86.5	79.9	71.0	62.1	53.2	44.4	31.1	26.6	28.8	28.8
122.5°	106.5	99.8	91.0	79.9	68.8	57.7	44.4	33.3	24.4	28.8	28.8
125°	126.5	117.6	104.3	88.7	75.4	62.1	46.6	33.3	26.6	28.8	28.8
127.5°	148.6	137.6	119.8	99.8	82.1	64.3	48.8	33.3	26.6	26.6	28.8
130°	177.5	159.7	135.3	110.9	88.7	68.8	48.8	33.3	26.6	26.6	26.6
132.5°	201.9	179.7	148.6	119.8	93.2	71.0	48.8	33.3	24.4	24.4	24.4
135°	226.3	197.5	159.7	126.5	97.6	71.0	48.8	31.1	24.4	24.4	24.4
137.5°	246.3	208.5	168.6	128.7	97.6	68.8	46.6	28.8	22.2	22.2	22.2
140°	257.4	215.2	170.8	128.7	93.2	66.6	42.2	26.6	20.0	20.0	20.0
142.5°	257.4	213.0	168.6	124.2	88.7	62.1	37.7	22.2	17.7	17.7	17.7
145°	248.5	204.1	159.7	117.6	82.1	55.5	33.3	20.0	13.3	13.3	15.5
147.5°	233.0	188.6	146.4	106.5	73.2	46.6	28.8	15.5	11.1	11.1	11.1
150°	206.3	166.4	126.5	93.2	62.1	39.9	24.4	13.3	8.9	8.9	8.9
152.5°	173.1	137.6	106.5	77.7	51.0	31.1	17.7	11.1	6.7	6.7	6.7
155°	137.6	108.7	84.3	59.9	37.7	24.4	13.3	8.9	6.7	6.7	6.7
157.5°	102.1	82.1	62.1	44.4	28.8	17.7	11.1	6.7	4.4	4.4	4.4
160°	71.0	57.7	42.2	28.8	17.7	11.1	6.7	4.4	2.2	2.2	2.2
162.5°	46.6	35.5	26.6	17.7	11.1	6.7	4.4	2.2	2.2	2.2	2.2
165°	22.2	17.7	13.3	8.9	4.4	4.4	2.2	2.2	0.0	0.0	0.0
167.5°	6.7	4.4	2.2	2.2	2.2	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)