

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: P691422

Luminaire Tested: **CRTK2-C016-5TLD-U-T3-7040-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-15)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T3-7040-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE III OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5179 lumens
Efficiency: N/A
Efficacy: 121.0 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): 42.8
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



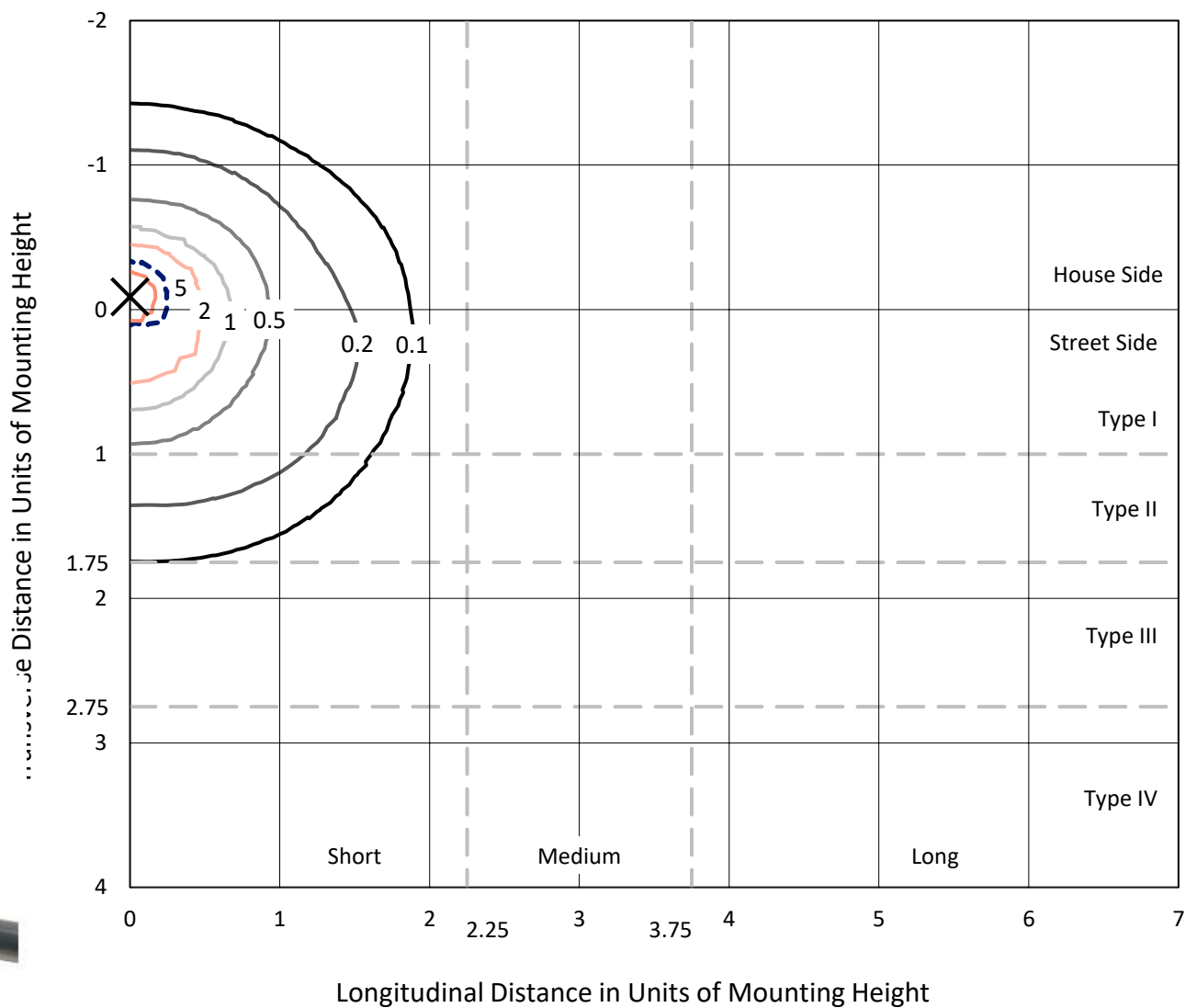
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



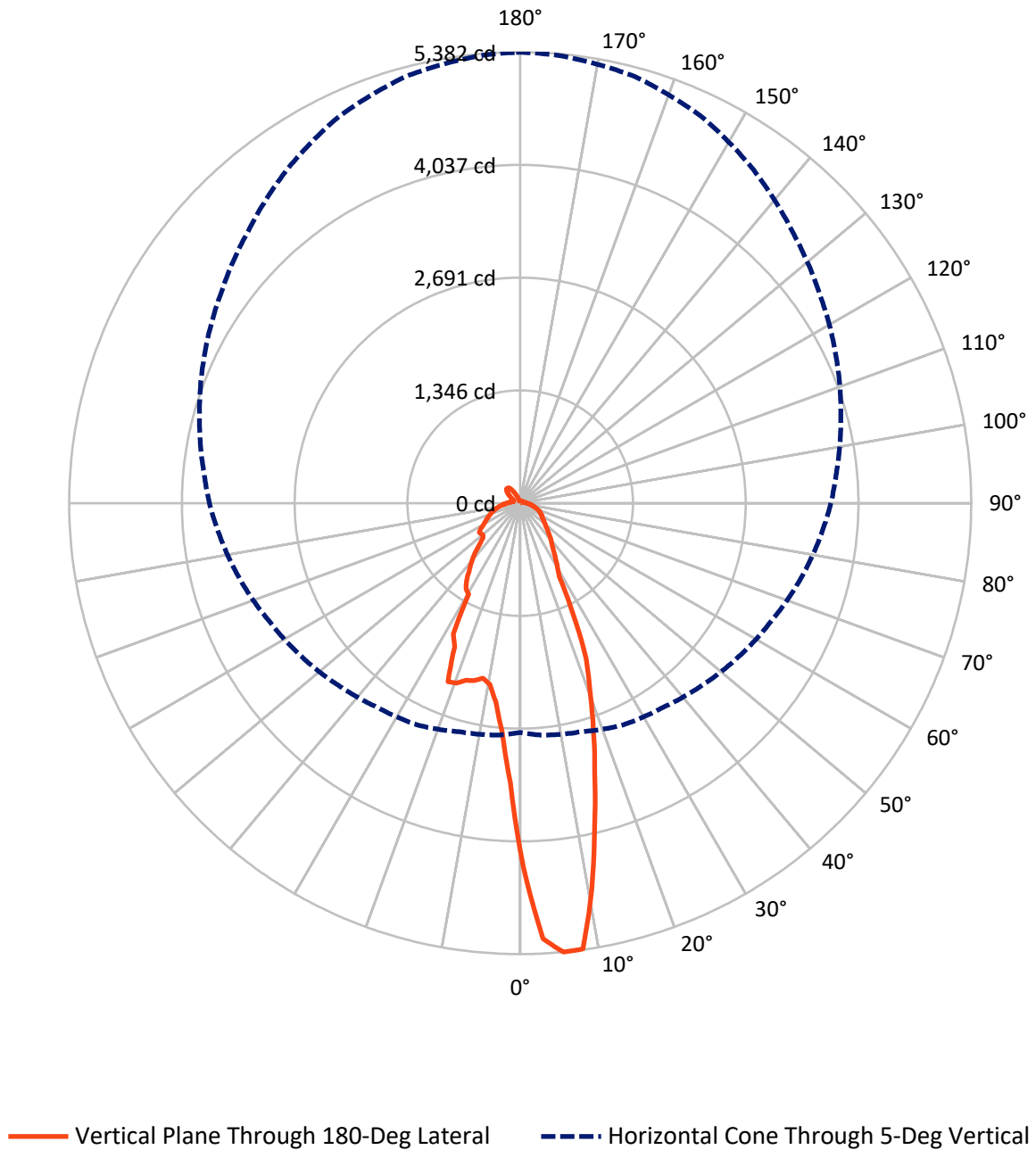
Based on 25 foot mounting height. Maximum calculated value = 8.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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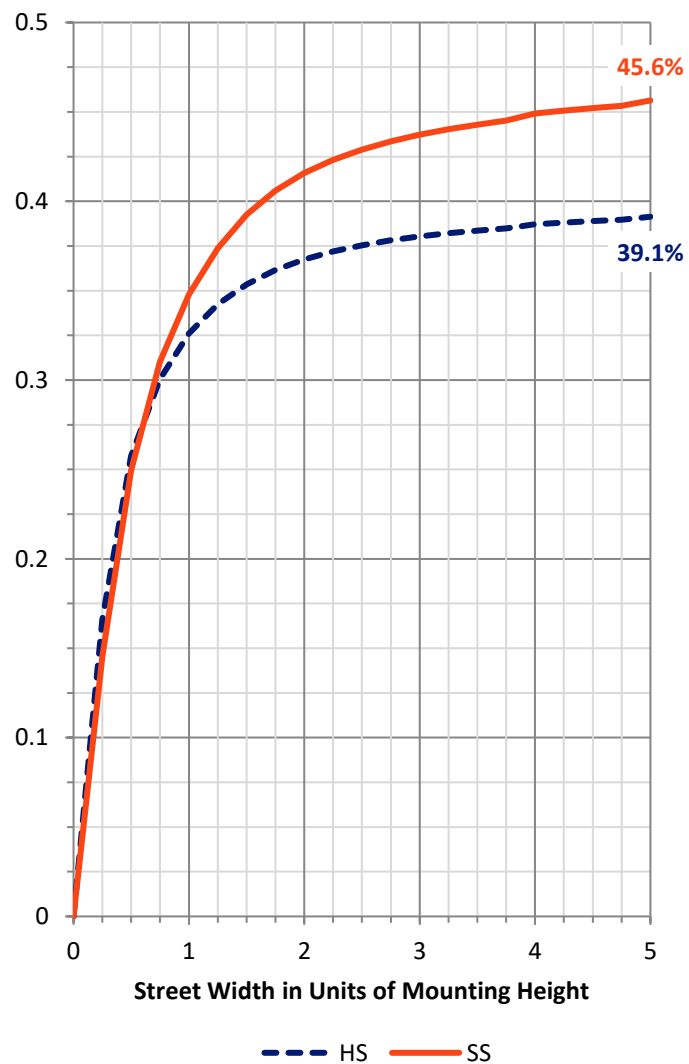
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2081.5	223.2	2304.7
	% Fixture	40.2	4.3	44.5
Street Side	Lumens	2429.1	445.2	2874.3
	% Fixture	46.9	8.6	55.5
Total	Lumens	4510.6	668.3	5179.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.1	6.7
10°-20°	746.6	14.4
20°-30°	822.1	15.9
30°-40°	604.1	11.7
40°-50°	506.1	9.8
50°-60°	507.8	9.8
60°-70°	434.9	8.4
70°-80°	324.0	6.3
80°-90°	216.8	4.2
90°-100°	128.8	2.5
100°-110°	74.8	1.4
110°-120°	69.5	1.3
120°-130°	100.9	1.9
130°-140°	135.7	2.6
140°-150°	109.9	2.1
150°-160°	43.4	0.8
160°-170°	5.3	0.1
170°-180°	0.0	0.0
0°-90°	4510.6	87.1
0°-180°	5179.0	100.0

Coefficient of Utilization



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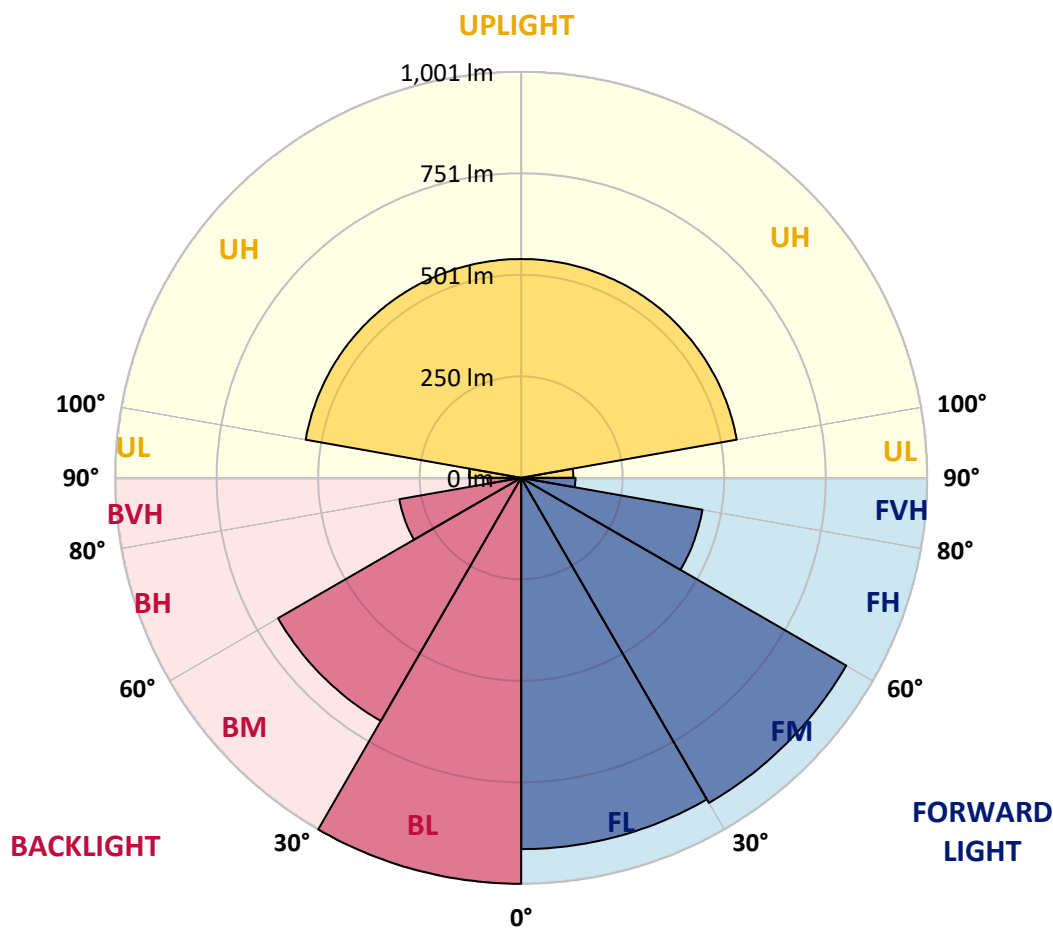
CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	915.7	17.7			
FM	(30°-60°)	925.7	17.9			
FH	(60°-80°)	453.9	8.8			G0/660
FVH	(80°-90°)	133.8	2.6			G2/225
BL	(0°-30°)	1001.2	19.3	B3/2500		
BM	(30°-60°)	692.3	13.4	B1/1000		
BH	(60°-80°)	305.1	5.9	B1/500		G1/500
BVH	(80°-90°)	83.0	1.6			G1/100
UL	(90°-100°)	128.8	2.5		U3/500	
UH	(100°-180°)	539.6	10.4		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°	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	3339.9	3389.3	3414.0	3488.0	3512.7	3560.0	3632.0	3703.9	3825.3	3915.8	3985.7
5°	2737.3	2778.5	2823.7	2918.3	2973.8	3072.6	3187.7	3311.1	3467.4	3625.8	3708.1
7.5°	2385.7	2395.9	2461.8	2576.9	2677.7	2782.6	2908.0	3015.0	3121.9	3251.5	3333.8
10°	2192.3	2206.7	2249.9	2338.4	2424.7	2511.1	2609.8	2692.1	2801.1	2910.1	2959.5
12.5°	2134.8	2140.9	2177.9	2229.4	2284.9	2340.4	2416.5	2490.5	2587.2	2681.8	2714.7
15°	2186.2	2186.2	2192.3	2212.9	2241.7	2284.9	2342.5	2406.2	2494.7	2564.6	2599.5
17.5°	2210.8	2212.9	2229.4	2233.5	2260.2	2278.7	2330.1	2379.5	2463.8	2521.4	2539.9
20°	2276.7	2276.7	2278.7	2289.0	2293.1	2303.4	2326.0	2352.8	2422.7	2453.5	2449.4
22.5°	2297.2	2289.0	2321.9	2381.5	2379.5	2381.5	2361.0	2367.2	2406.2	2393.9	2365.1
25°	1885.9	1875.6	1912.6	1949.7	2003.1	2071.0	2239.6	2371.3	2420.6	2381.5	2317.8
27.5°	1754.3	1709.0	1698.8	1610.3	1530.1	1398.5	1386.2	1303.9	1295.7	1347.1	1394.4
30°	1246.3	1248.4	1246.3	1238.1	1231.9	1238.1	1244.2	1229.8	1234.0	1266.9	1252.5
32.5°	1215.5	1215.5	1207.2	1203.1	1184.6	1178.4	1168.2	1141.4	1145.5	1170.2	1164.0
35°	1133.2	1129.1	1131.1	1120.8	1087.9	1061.2	1057.1	1034.5	1034.5	1048.9	1042.7
37.5°	1009.8	1003.6	1028.3	1026.2	999.5	989.2	978.9	964.5	964.5	976.9	964.5
40°	913.1	909.0	935.8	944.0	927.5	931.6	933.7	921.4	933.7	935.8	919.3
42.5°	810.3	808.2	830.9	828.8	814.4	812.4	810.3	802.1	822.6	839.1	826.8
45°	689.0	682.8	699.2	705.4	701.3	695.1	693.1	693.1	705.4	713.6	701.3
47.5°	608.8	610.8	623.2	637.5	641.7	645.8	643.7	639.6	647.8	649.9	639.6
50°	582.0	584.1	602.6	619.0	631.4	639.6	639.6	633.4	639.6	633.4	619.0
52.5°	594.4	594.4	619.0	643.7	664.3	678.7	680.7	672.5	672.5	656.1	633.4
55°	598.5	602.6	635.5	676.6	713.6	752.7	771.2	765.1	771.2	736.3	699.2
57.5°	559.4	569.7	602.6	651.9	701.3	763.0	802.1	806.2	804.1	773.3	728.0
60°	508.0	516.2	538.8	582.0	629.3	678.7	717.8	726.0	734.2	719.8	678.7
62.5°	473.0	477.1	495.6	526.5	559.4	586.1	600.5	598.5	606.7	602.6	571.7
65°	442.2	444.2	464.8	489.5	510.0	536.8	540.9	540.9	547.1	538.8	514.2
67.5°	409.3	409.3	425.7	448.3	473.0	495.6	501.8	503.9	512.1	503.9	485.4
70°	380.5	380.5	394.9	413.4	431.9	454.5	460.7	462.7	473.0	462.7	444.2
72.5°	353.7	353.7	366.1	382.5	399.0	417.5	423.7	425.7	433.9	423.7	409.3
75°	324.9	327.0	337.3	351.7	366.1	382.5	390.8	390.8	396.9	384.6	372.2
77.5°	296.2	298.2	308.5	320.8	333.2	349.6	353.7	355.8	362.0	349.6	337.3
80°	267.4	271.5	279.7	290.0	302.3	314.7	322.9	322.9	327.0	314.7	306.4
82.5°	240.6	244.7	250.9	259.1	271.5	283.8	292.0	292.0	294.1	283.8	273.5
85°	213.9	218.0	224.2	230.3	240.6	253.0	261.2	261.2	263.2	253.0	244.7
87.5°	189.2	193.3	197.4	203.6	211.8	224.2	232.4	232.4	232.4	224.2	215.9
90°	164.5	166.6	170.7	176.9	185.1	195.4	201.5	203.6	203.6	193.3	189.2
92.5°	146.0	146.0	150.1	154.2	162.5	170.7	176.9	178.9	178.9	172.8	166.6
95°	125.5	127.5	129.6	133.7	139.8	146.0	154.2	154.2	154.2	150.1	146.0
97.5°	111.1	109.0	111.1	113.1	119.3	123.4	129.6	131.6	131.6	127.5	125.5
100°	94.6	96.7	96.7	98.7	100.8	102.8	106.9	109.0	109.0	106.9	106.9
102.5°	88.4	86.4	86.4	86.4	86.4	86.4	88.4	88.4	90.5	88.4	86.4
105°	82.3	82.3	82.3	82.3	80.2	80.2	80.2	80.2	78.2	76.1	76.1
107.5°	80.2	80.2	80.2	80.2	78.2	78.2	76.1	76.1	74.0	72.0	69.9
110°	80.2	80.2	80.2	80.2	78.2	76.1	76.1	74.0	72.0	69.9	67.9

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CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-7040-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	84.3	84.3	84.3	84.3	80.2	78.2	76.1	76.1	72.0	69.9	67.9
115°	92.5	92.5	90.5	90.5	88.4	84.3	82.3	80.2	78.2	74.0	72.0
117.5°	100.8	100.8	100.8	100.8	98.7	94.6	90.5	88.4	86.4	80.2	78.2
120°	115.2	115.2	115.2	117.2	113.1	109.0	104.9	100.8	98.7	92.5	88.4
122.5°	133.7	131.6	135.7	137.8	135.7	129.6	123.4	119.3	115.2	106.9	102.8
125°	152.2	152.2	156.3	162.5	162.5	156.3	148.1	141.9	137.8	125.5	119.3
127.5°	174.8	174.8	181.0	191.3	193.3	187.2	178.9	170.7	164.5	148.1	141.9
130°	195.4	195.4	207.7	220.1	226.2	220.1	211.8	201.5	193.3	174.8	164.5
132.5°	211.8	213.9	228.3	244.7	253.0	250.9	240.6	232.4	224.2	201.5	189.2
135°	228.3	230.3	246.8	267.4	277.6	277.6	269.4	259.1	248.8	224.2	209.8
137.5°	236.5	238.6	259.1	279.7	292.0	296.2	292.0	281.8	271.5	244.7	226.2
140°	236.5	240.6	261.2	281.8	294.1	300.3	300.3	290.0	279.7	255.0	236.5
142.5°	230.3	234.5	253.0	273.5	285.9	294.1	296.2	287.9	277.6	253.0	234.5
145°	218.0	220.1	238.6	257.1	269.4	279.7	283.8	277.6	265.3	244.7	226.2
147.5°	197.4	197.4	213.9	228.3	244.7	255.0	261.2	257.1	246.8	228.3	211.8
150°	168.6	168.6	181.0	195.4	209.8	222.1	228.3	228.3	218.0	203.6	187.2
152.5°	133.7	135.7	144.0	156.3	170.7	181.0	189.2	189.2	183.0	170.7	156.3
155°	102.8	102.8	109.0	117.2	129.6	139.8	146.0	146.0	141.9	131.6	123.4
157.5°	74.0	74.0	78.2	86.4	94.6	102.8	109.0	109.0	104.9	98.7	92.5
160°	49.4	49.4	51.4	57.6	63.8	69.9	74.0	76.1	74.0	69.9	63.8
162.5°	26.7	26.7	28.8	32.9	37.0	43.2	45.2	47.3	47.3	43.2	41.1
165°	8.2	8.2	8.2	12.3	14.4	18.5	20.6	22.6	22.6	22.6	20.6
167.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.1	6.2	6.2	6.2	6.2
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	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°	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	4051.5	4203.7	4372.3	4545.1	4722.0	4888.5	5028.4	5139.5	5199.1	5213.5	5205.3
5°	3782.1	3961.0	4158.5	4360.0	4590.3	4855.6	5098.3	5273.1	5363.6	5378.0	5382.1
7.5°	3397.5	3553.8	3747.1	3979.5	4269.5	4553.3	4927.6	5188.8	5334.8	5373.9	5373.9
10°	2992.4	3130.2	3251.5	3455.1	3708.1	3973.4	4292.1	4532.8	4680.8	4728.1	4687.0
12.5°	2764.1	2823.7	2906.0	3056.1	3214.5	3416.0	3691.6	3847.9	3944.6	3973.4	3948.7
15°	2618.1	2648.9	2683.9	2747.6	2858.7	2984.1	3146.6	3243.3	3302.9	3337.9	3325.5
17.5°	2548.1	2548.1	2542.0	2556.4	2585.2	2642.7	2753.8	2788.8	2815.5	2829.9	2821.7
20°	2441.2	2408.3	2381.5	2340.4	2324.0	2321.9	2348.6	2385.7	2383.6	2385.7	2369.2
22.5°	2334.2	2266.4	2200.6	2138.9	2068.9	2034.0	2009.3	2021.6	2011.4	2021.6	2011.4
25°	2282.8	2145.0	2013.4	1863.3	1737.8	1641.2	1577.4	1538.3	1472.5	1497.2	1474.6
27.5°	1417.0	1359.4	1303.9	1192.8	1087.9	1050.9	1020.1	1003.6	991.3	997.5	993.3
30°	1227.8	1180.5	1137.3	1079.7	999.5	950.2	913.1	880.2	869.9	872.0	869.9
32.5°	1139.4	1102.3	1048.9	989.2	917.2	855.5	812.4	781.5	765.1	775.3	767.1
35°	1020.1	983.1	937.8	882.3	820.6	765.1	723.9	695.1	676.6	680.7	678.7
37.5°	941.9	907.0	867.9	808.2	754.8	701.3	660.2	631.4	612.9	617.0	612.9
40°	896.7	857.6	816.5	763.0	709.5	654.0	614.9	582.0	563.5	563.5	563.5
42.5°	804.1	773.3	738.3	682.8	635.5	588.2	549.1	524.4	503.9	505.9	501.8
45°	686.9	664.3	637.5	600.5	561.5	524.4	491.5	473.0	456.6	458.6	456.6
47.5°	627.3	606.7	575.8	547.1	512.1	479.2	450.4	427.8	415.4	417.5	413.4
50°	604.6	580.0	545.0	505.9	473.0	440.1	411.3	394.9	382.5	384.6	382.5
52.5°	612.9	573.8	524.4	477.1	438.1	405.2	382.5	364.0	355.8	357.8	353.7
55°	666.3	598.5	524.4	464.8	415.4	378.4	355.8	335.2	327.0	327.0	327.0
57.5°	684.8	610.8	518.3	450.4	396.9	359.9	333.2	312.6	304.4	304.4	304.4
60°	641.7	577.9	493.6	429.8	380.5	345.5	322.9	308.5	302.3	302.3	302.3
62.5°	549.1	508.0	444.2	392.8	355.8	324.9	302.3	283.8	277.6	275.6	275.6
65°	497.7	458.6	405.2	362.0	329.1	304.4	283.8	269.4	261.2	261.2	261.2
67.5°	464.8	427.8	378.4	337.3	306.4	279.7	261.2	246.8	242.7	240.6	240.6
70°	427.8	392.8	343.5	306.4	277.6	255.0	236.5	224.2	220.1	220.1	218.0
72.5°	390.8	357.8	310.5	275.6	248.8	228.3	211.8	201.5	197.4	195.4	195.4
75°	355.8	322.9	279.7	246.8	222.1	203.6	189.2	178.9	174.8	174.8	174.8
77.5°	322.9	292.0	250.9	220.1	199.5	181.0	168.6	160.4	156.3	156.3	156.3
80°	292.0	261.2	224.2	195.4	174.8	160.4	150.1	141.9	137.8	139.8	137.8
82.5°	259.1	234.5	199.5	172.8	156.3	141.9	131.6	125.5	121.3	123.4	121.3
85°	232.4	207.7	174.8	152.2	135.7	123.4	115.2	109.0	104.9	106.9	104.9
87.5°	205.7	183.0	154.2	133.7	119.3	109.0	98.7	94.6	92.5	92.5	90.5
90°	176.9	156.3	131.6	115.2	100.8	92.5	84.3	80.2	78.2	76.1	76.1
92.5°	156.3	139.8	117.2	102.8	90.5	84.3	76.1	72.0	69.9	69.9	69.9
95°	137.8	123.4	104.9	92.5	84.3	76.1	69.9	67.9	65.8	65.8	63.8
97.5°	119.3	106.9	94.6	84.3	76.1	69.9	63.8	61.7	59.6	59.6	59.6
100°	100.8	92.5	82.3	74.0	67.9	63.8	57.6	55.5	53.5	53.5	53.5
102.5°	84.3	78.2	69.9	63.8	59.6	55.5	51.4	49.4	47.3	47.3	47.3
105°	74.0	67.9	63.8	57.6	53.5	49.4	47.3	43.2	41.1	41.1	41.1
107.5°	67.9	63.8	59.6	55.5	51.4	47.3	43.2	39.1	37.0	37.0	37.0
110°	65.8	61.7	57.6	53.5	49.4	45.2	43.2	37.0	35.0	35.0	35.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	65.8	63.8	59.6	55.5	51.4	47.3	43.2	35.0	32.9	32.9	32.9
115°	69.9	65.8	61.7	57.6	53.5	49.4	45.2	35.0	32.9	32.9	32.9
117.5°	76.1	72.0	65.8	61.7	57.6	51.4	45.2	37.0	32.9	32.9	32.9
120°	86.4	80.2	74.0	67.9	61.7	55.5	47.3	37.0	30.8	32.9	32.9
122.5°	98.7	92.5	82.3	74.0	67.9	59.6	49.4	39.1	30.8	32.9	32.9
125°	115.2	106.9	94.6	84.3	74.0	63.8	51.4	39.1	30.8	32.9	35.0
127.5°	133.7	121.3	106.9	92.5	80.2	67.9	55.5	41.1	30.8	35.0	35.0
130°	154.2	139.8	121.3	102.8	88.4	72.0	57.6	41.1	32.9	32.9	32.9
132.5°	176.9	156.3	131.6	111.1	92.5	74.0	57.6	41.1	32.9	32.9	32.9
135°	193.3	168.6	141.9	117.2	96.7	76.1	59.6	41.1	30.8	30.8	30.8
137.5°	207.7	178.9	150.1	121.3	98.7	76.1	57.6	39.1	30.8	28.8	28.8
140°	215.9	183.0	150.1	121.3	96.7	74.0	53.5	37.0	26.7	26.7	26.7
142.5°	215.9	181.0	148.1	117.2	90.5	69.9	51.4	32.9	24.7	24.7	24.7
145°	207.7	172.8	139.8	111.1	84.3	63.8	45.2	30.8	22.6	22.6	22.6
147.5°	193.3	158.4	127.5	100.8	74.0	55.5	39.1	24.7	18.5	18.5	18.5
150°	172.8	139.8	111.1	86.4	63.8	45.2	32.9	20.6	14.4	14.4	14.4
152.5°	144.0	117.2	90.5	72.0	51.4	37.0	24.7	16.5	12.3	12.3	12.3
155°	113.1	92.5	72.0	55.5	39.1	26.7	18.5	12.3	8.2	8.2	8.2
157.5°	86.4	69.9	53.5	41.1	28.8	20.6	14.4	8.2	6.2	6.2	6.2
160°	59.6	47.3	37.0	28.8	18.5	14.4	10.3	6.2	4.1	4.1	4.1
162.5°	39.1	30.8	22.6	16.5	12.3	8.2	6.2	4.1	2.1	2.1	2.1
165°	18.5	14.4	12.3	8.2	6.2	4.1	2.1	2.1	0.0	0.0	0.0
167.5°	6.2	4.1	4.1	2.1	2.1	2.1	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)