

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: P691389

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691389
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-C016-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 4620 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U3 - 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



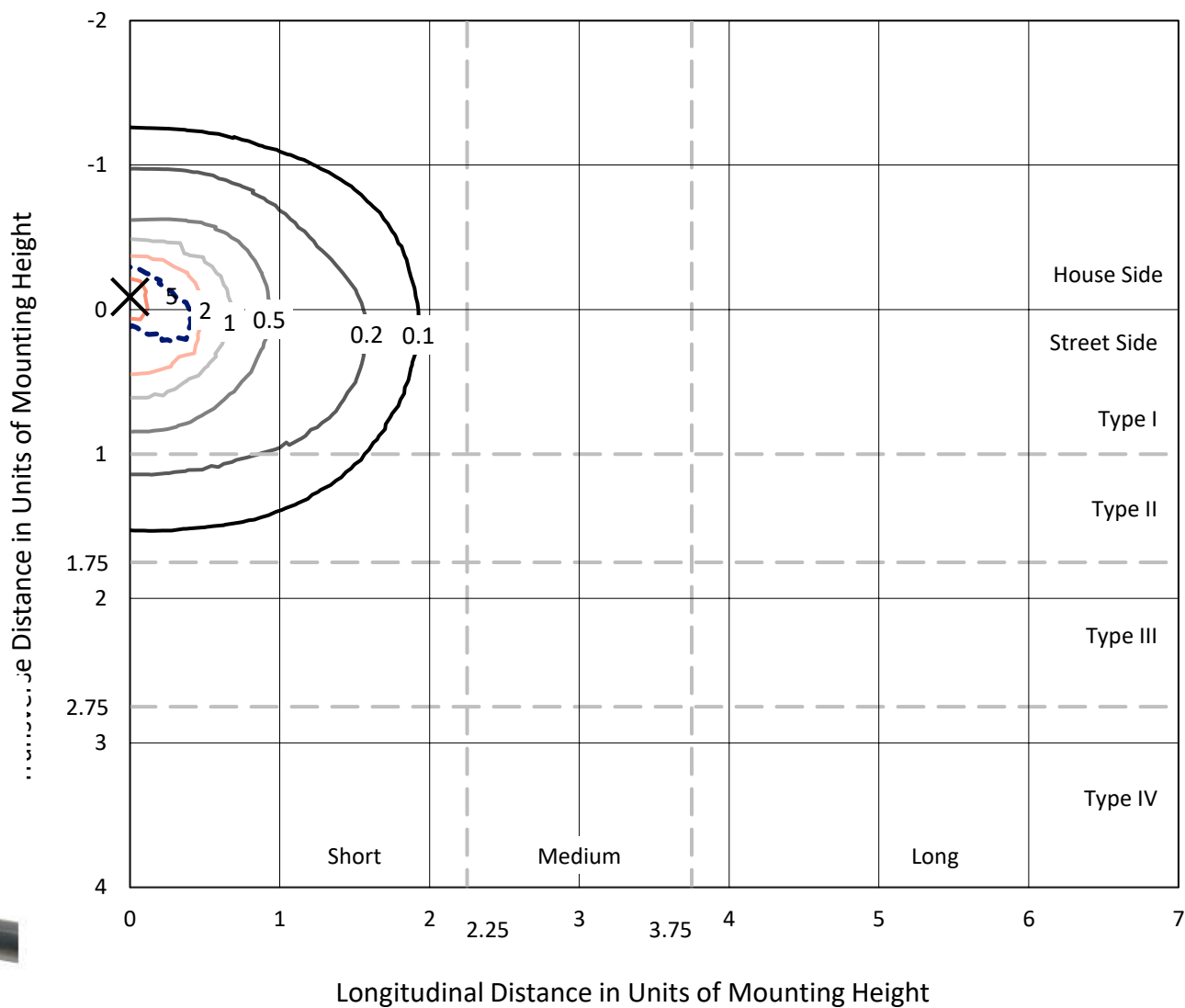
REPORT NUMBER: P691389

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



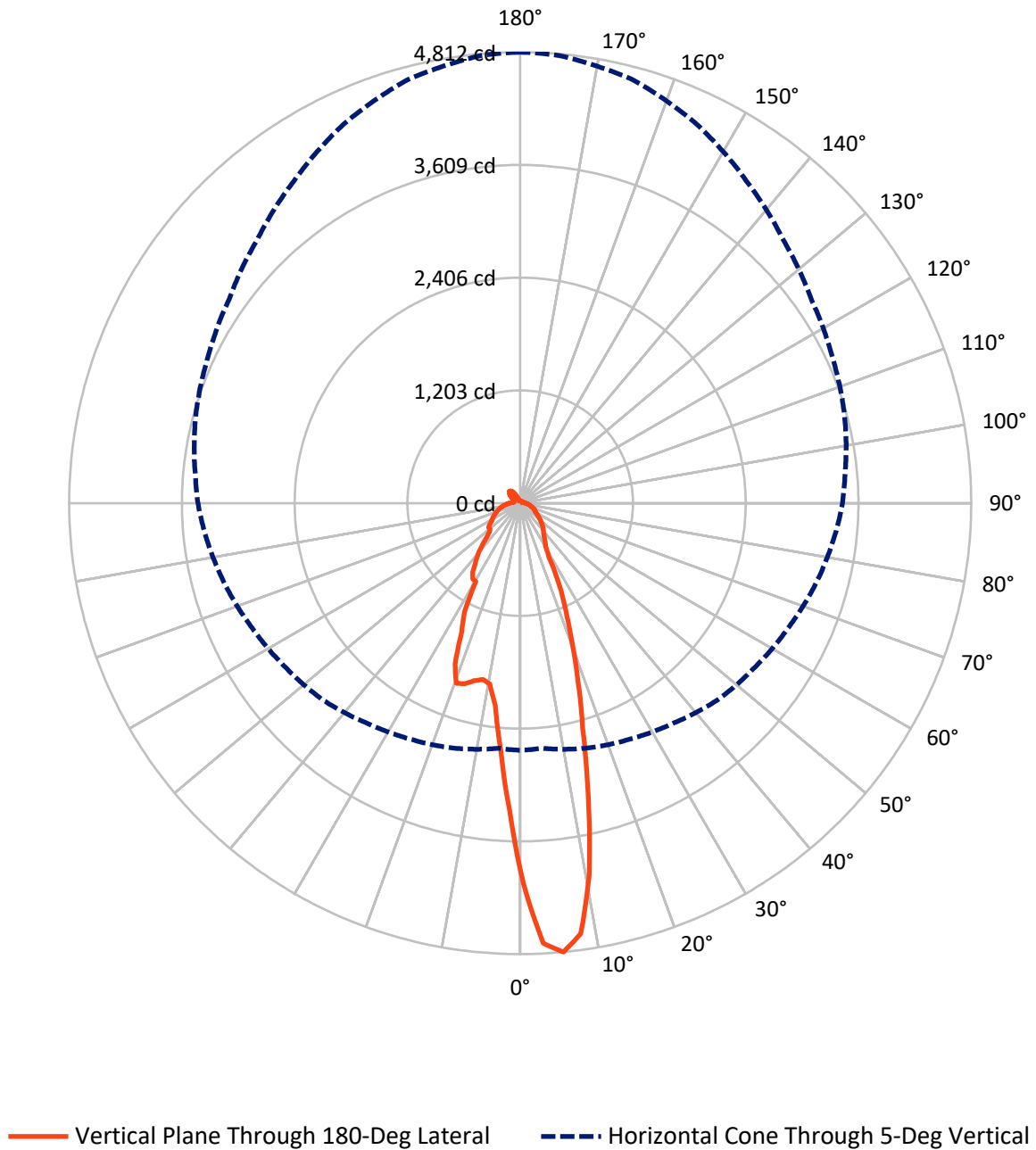
Based on 25 foot mounting height. Maximum calculated value = 7.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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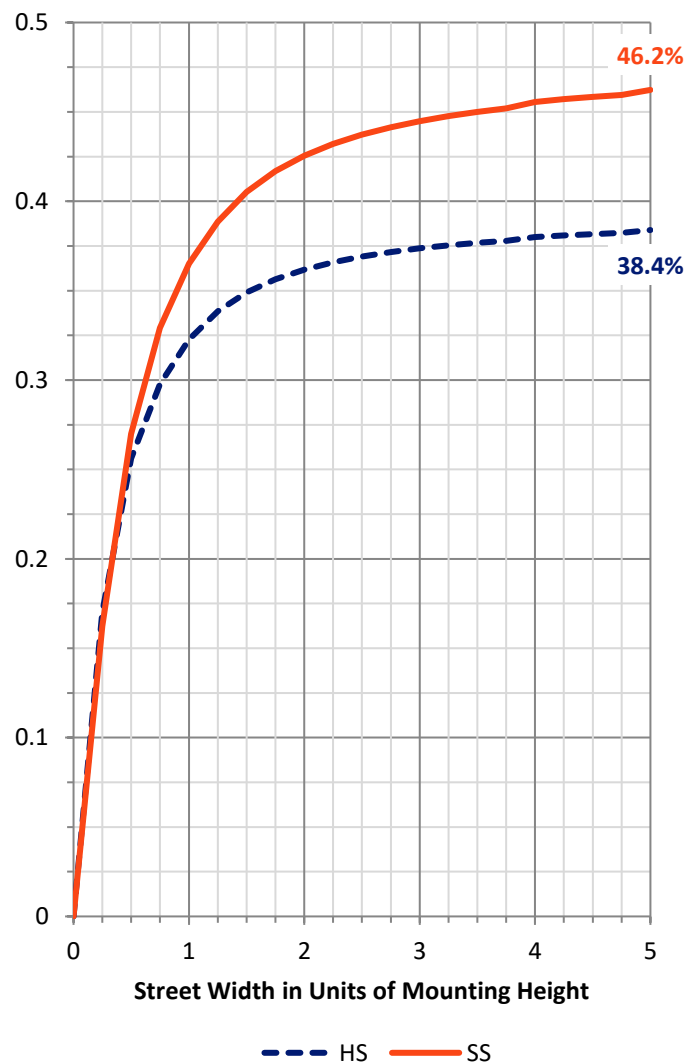
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1820.7	213.8	2034.4
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2188.2	397.4	2585.5
	% Fixture	47.4	8.6	56.0
Total	Lumens	4008.8	611.1	4620.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.4	6.8
10°-20°	667.1	14.4
20°-30°	726.0	15.7
30°-40°	531.4	11.5
40°-50°	446.8	9.7
50°-60°	453.7	9.8
60°-70°	385.7	8.3
70°-80°	287.8	6.2
80°-90°	195.9	4.2
90°-100°	117.6	2.5
100°-110°	67.4	1.5
110°-120°	62.1	1.3
120°-130°	90.2	2.0
130°-140°	124.1	2.7
140°-150°	102.7	2.2
150°-160°	41.8	0.9
160°-170°	5.2	0.1
170°-180°	0.0	0.0
0°-90°	4008.8	86.8
0°-180°	4620.0	100.0

Coefficient of Utilization



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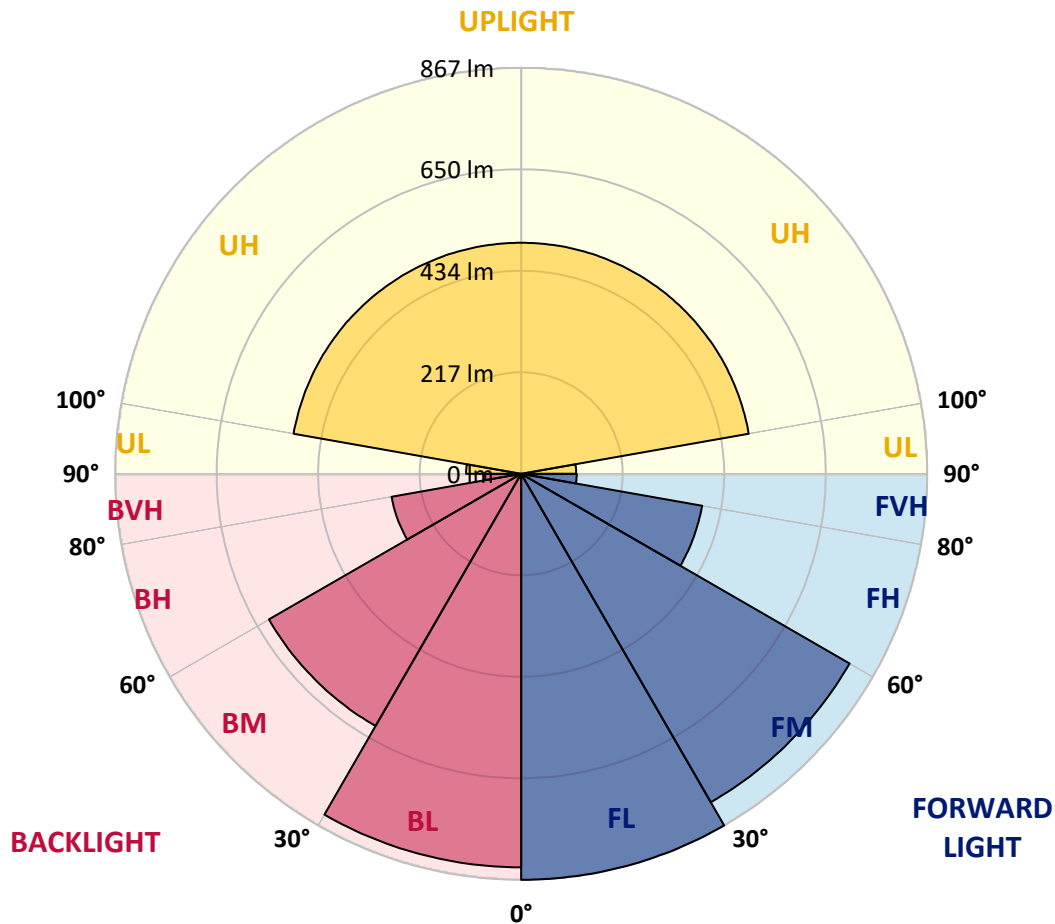
CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.1	18.8			
FM	(30°-60°)	810.0	17.5			
FH	(60°-80°)	392.5	8.5			G0/660
FVH	(80°-90°)	118.6	2.6			G2/225
BL	(0°-30°)	840.4	18.2	B2/1000		
BM	(30°-60°)	622.0	13.5	B1/1000		
BH	(60°-80°)	281.0	6.1	B1/500		G1/500
BVH	(80°-90°)	77.3	1.7			G1/100
UL	(90°-100°)	117.6	2.5		U3/500	
UH	(100°-180°)	493.5	10.7		U3/500	

BUG Rating: B2-U3-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3
2.5°	3275.4	3269.2	3314.5	3324.8	3328.9	3376.2	3440.0	3483.2	3561.4	3637.5	3668.4
5°	2637.6	2625.2	2707.5	2777.5	2861.8	2972.9	3055.2	3154.0	3271.3	3384.4	3437.9
7.5°	2174.7	2191.1	2308.4	2452.4	2588.2	2719.9	2820.7	2905.1	2972.9	3045.0	3059.4
10°	1956.6	1971.0	2086.2	2224.1	2349.6	2483.3	2569.7	2641.7	2684.9	2738.4	2756.9
12.5°	1921.6	1931.9	2010.1	2106.8	2201.4	2322.8	2431.9	2512.1	2561.5	2604.7	2608.8
15°	1956.6	1960.7	2008.0	2071.8	2154.1	2254.9	2380.4	2470.9	2526.5	2545.0	2540.9
17.5°	2014.2	2014.2	2036.8	2090.3	2168.5	2265.2	2384.5	2477.1	2534.7	2543.0	2526.5
20°	2038.9	2043.0	2057.4	2117.1	2187.0	2275.5	2394.8	2473.0	2518.3	2495.6	2466.8
22.5°	1853.7	1845.5	1884.6	2010.1	2166.4	2324.9	2438.0	2526.5	2551.2	2475.1	2413.3
25°	1499.8	1504.0	1528.7	1590.4	1711.8	1857.8	2108.8	2378.4	2565.6	2536.8	2444.2
27.5°	1308.5	1296.2	1302.3	1312.6	1296.2	1265.3	1294.1	1287.9	1283.8	1357.9	1366.1
30°	960.8	962.9	973.2	991.7	1030.8	1088.4	1150.1	1185.1	1215.9	1273.5	1265.3
32.5°	954.6	956.7	962.9	979.3	999.9	1039.0	1078.1	1092.5	1125.4	1172.7	1158.3
35°	892.9	886.7	903.2	917.6	923.8	940.2	971.1	991.7	1012.2	1045.2	1036.9
37.5°	792.1	794.2	827.1	849.7	855.9	878.5	907.3	923.8	946.4	975.2	960.8
40°	705.7	707.7	746.8	771.5	785.9	816.8	860.0	880.6	917.6	940.2	923.8
42.5°	606.9	615.2	641.9	670.7	678.9	697.5	726.3	753.0	800.3	831.2	820.9
45°	506.1	510.2	528.8	557.6	569.9	590.5	617.2	641.9	678.9	703.6	701.6
47.5°	446.5	450.6	467.0	491.7	516.4	543.2	572.0	596.6	631.6	652.2	644.0
50°	421.8	425.9	446.5	475.3	506.1	541.1	576.1	602.8	635.7	648.1	637.8
52.5°	425.9	425.9	454.7	491.7	534.9	582.2	625.5	658.4	685.1	693.3	670.7
55°	403.3	409.4	440.3	491.7	557.6	631.6	705.7	775.6	814.7	806.5	763.3
57.5°	368.3	374.4	397.1	452.6	522.6	611.0	716.0	802.4	849.7	855.9	812.7
60°	347.7	351.8	372.4	415.6	477.3	549.3	644.0	713.9	767.4	783.9	753.0
62.5°	329.2	333.3	349.8	382.7	427.9	483.5	537.0	582.2	625.5	641.9	629.6
65°	308.6	310.7	327.1	355.9	393.0	440.3	485.5	518.5	553.4	563.7	549.3
67.5°	288.0	290.1	304.5	331.2	366.2	409.4	444.4	481.4	516.4	524.6	514.4
70°	269.5	271.6	283.9	308.6	339.5	380.6	413.5	438.2	473.2	481.4	469.1
72.5°	251.0	253.1	265.4	288.0	316.8	353.9	382.7	407.4	436.2	438.2	427.9
75°	232.5	234.5	244.8	265.4	290.1	327.1	353.9	374.4	399.1	399.1	386.8
77.5°	211.9	216.0	224.3	242.8	265.4	300.4	325.1	345.6	366.2	364.2	351.8
80°	193.4	195.5	203.7	220.1	240.7	273.6	298.3	314.8	333.3	331.2	321.0
82.5°	172.8	174.9	181.1	197.5	216.0	246.9	271.6	288.0	304.5	300.4	290.1
85°	152.2	154.3	162.5	174.9	193.4	222.2	244.8	261.3	273.6	269.5	261.3
87.5°	135.8	135.8	142.0	154.3	170.8	197.5	218.1	234.5	244.8	242.8	234.5
90°	117.3	119.3	123.4	133.7	148.1	170.8	191.3	205.7	216.0	211.9	203.7
92.5°	102.9	102.9	107.0	117.3	129.6	150.2	168.7	181.1	189.3	187.2	181.1
95°	88.5	90.5	92.6	100.8	111.1	127.6	144.0	156.4	164.6	162.5	158.4
97.5°	78.2	80.2	82.3	86.4	96.7	107.0	121.4	131.7	139.9	137.8	133.7
100°	72.0	72.0	72.0	76.1	82.3	90.5	100.8	109.0	113.2	115.2	111.1
102.5°	65.8	65.8	67.9	67.9	72.0	76.1	82.3	88.5	90.5	90.5	90.5
105°	63.8	63.8	65.8	65.8	67.9	70.0	74.1	76.1	78.2	78.2	76.1
107.5°	63.8	63.8	63.8	63.8	65.8	67.9	70.0	72.0	72.0	72.0	70.0
110°	65.8	65.8	65.8	65.8	65.8	67.9	67.9	70.0	70.0	67.9	67.9

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CATALOG NUMBER: CRTK2-C016-5TLD-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	67.9	67.9	67.9	67.9	67.9	70.0	70.0	70.0	70.0	67.9	67.9
115°	72.0	72.0	72.0	74.1	74.1	74.1	74.1	74.1	74.1	72.0	70.0
117.5°	80.2	80.2	80.2	80.2	82.3	82.3	82.3	82.3	82.3	78.2	78.2
120°	90.5	88.5	90.5	92.6	94.6	94.6	94.6	94.6	94.6	90.5	88.5
122.5°	100.8	100.8	102.9	107.0	111.1	113.2	111.1	111.1	111.1	104.9	102.9
125°	113.2	113.2	119.3	127.6	133.7	135.8	133.7	133.7	133.7	127.6	123.4
127.5°	127.6	127.6	135.8	148.1	158.4	164.6	162.5	162.5	162.5	152.2	146.1
130°	142.0	142.0	154.3	170.8	187.2	191.3	193.4	195.5	195.5	183.1	174.9
132.5°	152.2	154.3	168.7	191.3	211.9	218.1	224.3	226.3	226.3	211.9	199.6
135°	162.5	164.6	183.1	209.9	232.5	246.9	253.1	255.1	257.2	240.7	226.3
137.5°	168.7	170.8	191.3	222.2	244.8	263.3	277.7	281.9	281.9	263.3	244.8
140°	168.7	170.8	193.4	222.2	246.9	269.5	286.0	294.2	294.2	275.7	259.2
142.5°	164.6	168.7	189.3	218.1	242.8	265.4	283.9	292.2	292.2	275.7	259.2
145°	156.4	158.4	179.0	203.7	228.4	255.1	275.7	283.9	283.9	267.5	251.0
147.5°	142.0	144.0	160.5	183.1	207.8	234.5	255.1	265.4	263.3	248.9	234.5
150°	123.4	123.4	137.8	156.4	181.1	205.7	226.3	236.6	236.6	222.2	209.9
152.5°	100.8	100.8	111.1	125.5	146.1	170.8	187.2	197.5	197.5	187.2	176.9
155°	78.2	78.2	86.4	96.7	113.2	131.7	144.0	154.3	154.3	146.1	137.8
157.5°	55.5	55.5	63.8	72.0	84.4	98.8	109.0	115.2	117.3	109.0	104.9
160°	37.0	37.0	41.1	47.3	57.6	67.9	74.1	80.2	82.3	76.1	74.1
162.5°	20.6	20.6	22.6	28.8	35.0	41.1	47.3	51.4	51.4	49.4	47.3
165°	6.2	6.2	8.2	10.3	14.4	18.5	20.6	22.6	24.7	24.7	22.6
167.5°	0.0	0.0	2.1	2.1	2.1	2.1	4.1	4.1	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	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°	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3	4061.3
2.5°	3732.1	3847.3	3972.8	4094.2	4242.4	4396.7	4538.6	4635.3	4686.8	4703.2	4703.2
5°	3479.1	3584.0	3676.6	3791.8	3970.8	4203.3	4460.5	4674.4	4795.8	4810.2	4812.3
7.5°	3084.0	3170.5	3267.2	3370.0	3528.4	3736.2	4075.7	4421.4	4618.9	4655.9	4641.5
10°	2761.0	2814.5	2872.1	2911.2	3022.3	3176.6	3407.1	3746.5	3989.3	4018.1	4038.7
12.5°	2610.8	2619.1	2602.6	2610.8	2647.9	2719.9	2833.0	3028.5	3186.9	3213.7	3228.1
15°	2534.7	2493.6	2427.7	2366.0	2333.1	2339.3	2364.0	2444.2	2470.9	2516.2	2495.6
17.5°	2499.7	2407.2	2304.3	2185.0	2110.9	2034.8	1993.6	1979.2	1968.9	1971.0	1989.5
20°	2411.3	2306.4	2141.8	1985.4	1866.1	1761.1	1672.7	1608.9	1573.9	1557.5	1569.8
22.5°	2318.7	2156.2	1962.8	1794.1	1623.3	1489.6	1388.7	1296.2	1244.7	1259.1	1242.7
25°	2320.8	2078.0	1847.5	1625.3	1464.9	1287.9	1127.5	1030.8	946.4	962.9	985.5
27.5°	1462.8	1399.0	1234.4	1104.8	944.3	855.9	775.6	707.7	660.4	662.5	656.3
30°	1240.6	1174.8	1092.5	989.6	868.2	765.4	672.8	594.6	549.3	537.0	534.9
32.5°	1146.0	1090.4	1014.3	913.5	802.4	699.5	606.9	534.9	489.7	487.6	487.6
35°	1020.5	969.0	905.3	818.8	724.2	629.6	543.2	481.4	444.4	444.4	442.3
37.5°	942.3	897.0	835.3	755.1	670.7	576.1	499.9	444.4	405.3	403.3	405.3
40°	901.1	853.8	794.2	718.0	633.7	543.2	471.1	413.5	384.7	382.7	380.6
42.5°	818.8	781.8	730.4	660.4	586.4	506.1	438.2	386.8	362.1	360.0	362.1
45°	695.4	668.7	633.7	582.2	520.5	452.6	393.0	353.9	329.2	329.2	329.2
47.5°	637.8	613.1	574.0	522.6	469.1	405.3	355.9	323.0	300.4	300.4	300.4
50°	623.4	592.5	541.1	483.5	425.9	370.3	325.1	292.2	275.7	273.6	275.7
52.5°	644.0	596.6	526.7	458.8	395.0	341.5	298.3	267.5	251.0	251.0	251.0
55°	718.0	631.6	539.0	452.6	376.5	316.8	273.6	242.8	226.3	224.3	226.3
57.5°	767.4	658.4	543.2	446.5	364.2	300.4	253.1	220.1	203.7	201.6	203.7
60°	724.2	635.7	524.6	430.0	353.9	288.0	238.7	205.7	189.3	187.2	187.2
62.5°	600.8	549.3	469.1	388.8	327.1	269.5	224.3	193.4	176.9	174.9	176.9
65°	532.9	487.6	417.7	353.9	300.4	251.0	211.9	185.2	168.7	168.7	168.7
67.5°	495.8	454.7	388.8	327.1	277.7	232.5	195.5	170.8	156.4	156.4	156.4
70°	452.6	411.5	351.8	296.3	251.0	211.9	179.0	154.3	142.0	139.9	142.0
72.5°	415.6	374.4	318.9	267.5	226.3	191.3	162.5	139.9	129.6	127.6	129.6
75°	374.4	335.4	281.9	236.6	201.6	170.8	146.1	125.5	117.3	115.2	115.2
77.5°	339.5	302.4	253.1	211.9	181.1	152.2	129.6	115.2	107.0	104.9	104.9
80°	308.6	273.6	226.3	189.3	160.5	135.8	117.3	102.9	94.6	94.6	94.6
82.5°	275.7	244.8	201.6	166.6	142.0	121.4	102.9	90.5	84.4	84.4	84.4
85°	248.9	218.1	176.9	148.1	123.4	104.9	90.5	80.2	74.1	74.1	74.1
87.5°	220.1	193.4	156.4	129.6	109.0	92.6	78.2	67.9	65.8	63.8	63.8
90°	191.3	166.6	133.7	111.1	92.6	78.2	65.8	57.6	55.5	53.5	53.5
92.5°	170.8	148.1	121.4	100.8	84.4	70.0	61.7	53.5	51.4	51.4	49.4
95°	148.1	129.6	107.0	90.5	76.1	65.8	57.6	51.4	49.4	49.4	47.3
97.5°	127.6	111.1	94.6	82.3	70.0	61.7	53.5	49.4	45.3	45.3	45.3
100°	107.0	94.6	82.3	70.0	63.8	55.5	49.4	45.3	43.2	41.1	41.1
102.5°	86.4	78.2	67.9	61.7	53.5	47.3	43.2	39.1	37.0	37.0	37.0
105°	74.1	67.9	61.7	55.5	49.4	43.2	39.1	35.0	32.9	32.9	32.9
107.5°	67.9	63.8	57.6	51.4	47.3	41.1	37.0	30.9	28.8	30.9	30.9
110°	65.8	61.7	55.5	51.4	45.3	41.1	37.0	28.8	26.7	28.8	28.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	65.8	61.7	57.6	51.4	47.3	41.1	37.0	28.8	26.7	26.7	26.7
115°	67.9	65.8	59.7	55.5	49.4	43.2	37.0	28.8	26.7	26.7	26.7
117.5°	76.1	72.0	65.8	59.7	53.5	45.3	39.1	28.8	26.7	26.7	26.7
120°	84.4	80.2	74.1	65.8	57.6	49.4	41.1	28.8	24.7	26.7	26.7
122.5°	98.8	92.6	84.4	74.1	63.8	53.5	41.1	30.9	22.6	26.7	26.7
125°	117.3	109.0	96.7	82.3	70.0	57.6	43.2	30.9	24.7	26.7	26.7
127.5°	137.8	127.6	111.1	92.6	76.1	59.7	45.3	30.9	24.7	24.7	26.7
130°	164.6	148.1	125.5	102.9	82.3	63.8	45.3	30.9	24.7	24.7	24.7
132.5°	187.2	166.6	137.8	111.1	86.4	65.8	45.3	30.9	22.6	22.6	22.6
135°	209.9	183.1	148.1	117.3	90.5	65.8	45.3	28.8	22.6	22.6	22.6
137.5°	228.4	193.4	156.4	119.3	90.5	63.8	43.2	26.7	20.6	20.6	20.6
140°	238.7	199.6	158.4	119.3	86.4	61.7	39.1	24.7	18.5	18.5	18.5
142.5°	238.7	197.5	156.4	115.2	82.3	57.6	35.0	20.6	16.5	16.5	16.5
145°	230.4	189.3	148.1	109.0	76.1	51.4	30.9	18.5	12.3	12.3	14.4
147.5°	216.0	174.9	135.8	98.8	67.9	43.2	26.7	14.4	10.3	10.3	10.3
150°	191.3	154.3	117.3	86.4	57.6	37.0	22.6	12.3	8.2	8.2	8.2
152.5°	160.5	127.6	98.8	72.0	47.3	28.8	16.5	10.3	6.2	6.2	6.2
155°	127.6	100.8	78.2	55.5	35.0	22.6	12.3	8.2	6.2	6.2	6.2
157.5°	94.6	76.1	57.6	41.1	26.7	16.5	10.3	6.2	4.1	4.1	4.1
160°	65.8	53.5	39.1	26.7	16.5	10.3	6.2	4.1	2.1	2.1	2.1
162.5°	43.2	32.9	24.7	16.5	10.3	6.2	4.1	2.1	2.1	2.1	2.1
165°	20.6	16.5	12.3	8.2	4.1	4.1	2.1	2.1	0.0	0.0	0.0
167.5°	6.2	4.1	2.1	2.1	2.1	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)