

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: P691437

Luminaire Tested: **CRTK2-C016-5TLD-U-T3-8027-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691437
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-C016-5TLD-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: 4139 lumens
Efficiency: N/A
Efficacy: 96.7 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



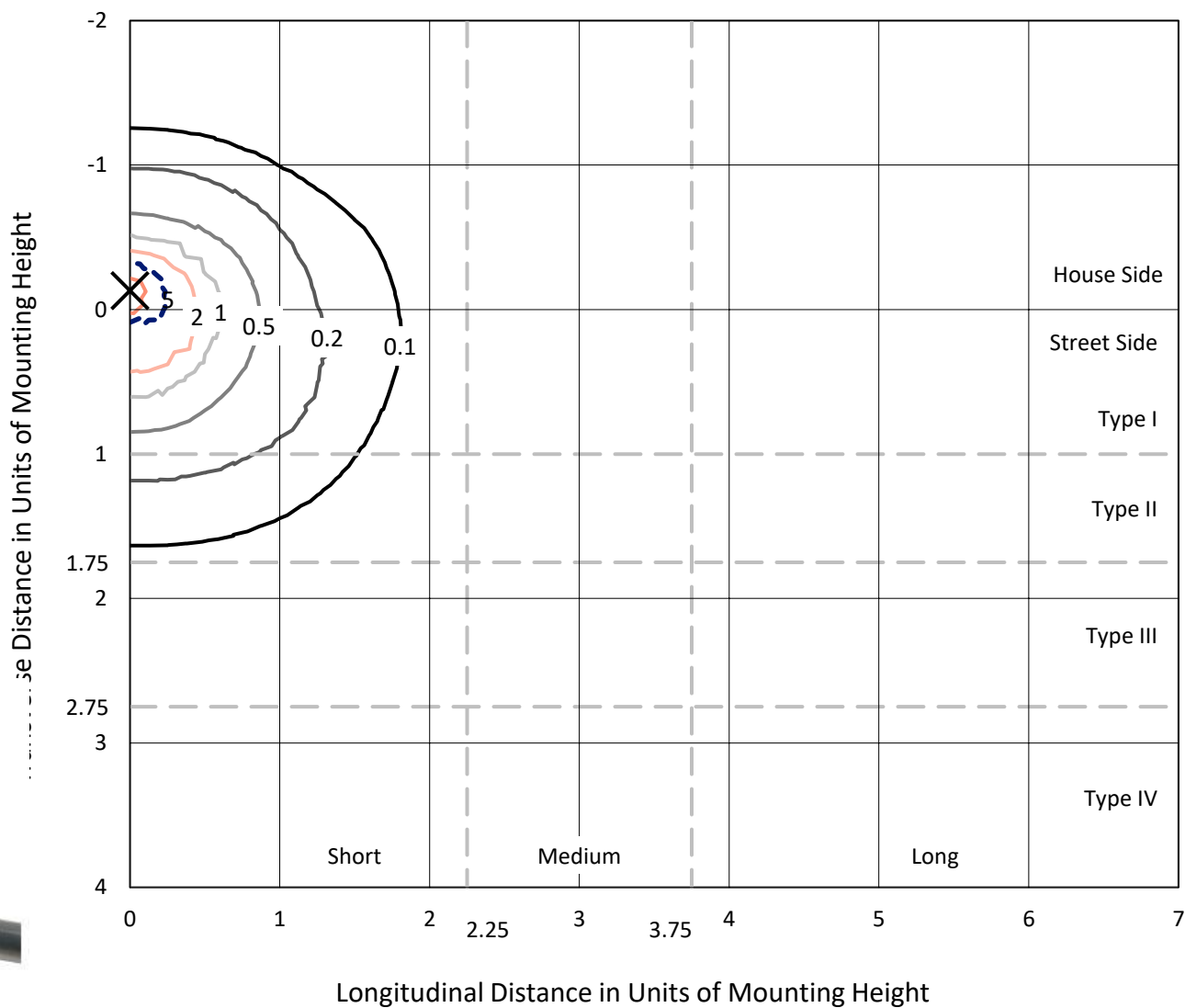
REPORT NUMBER: P691437

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



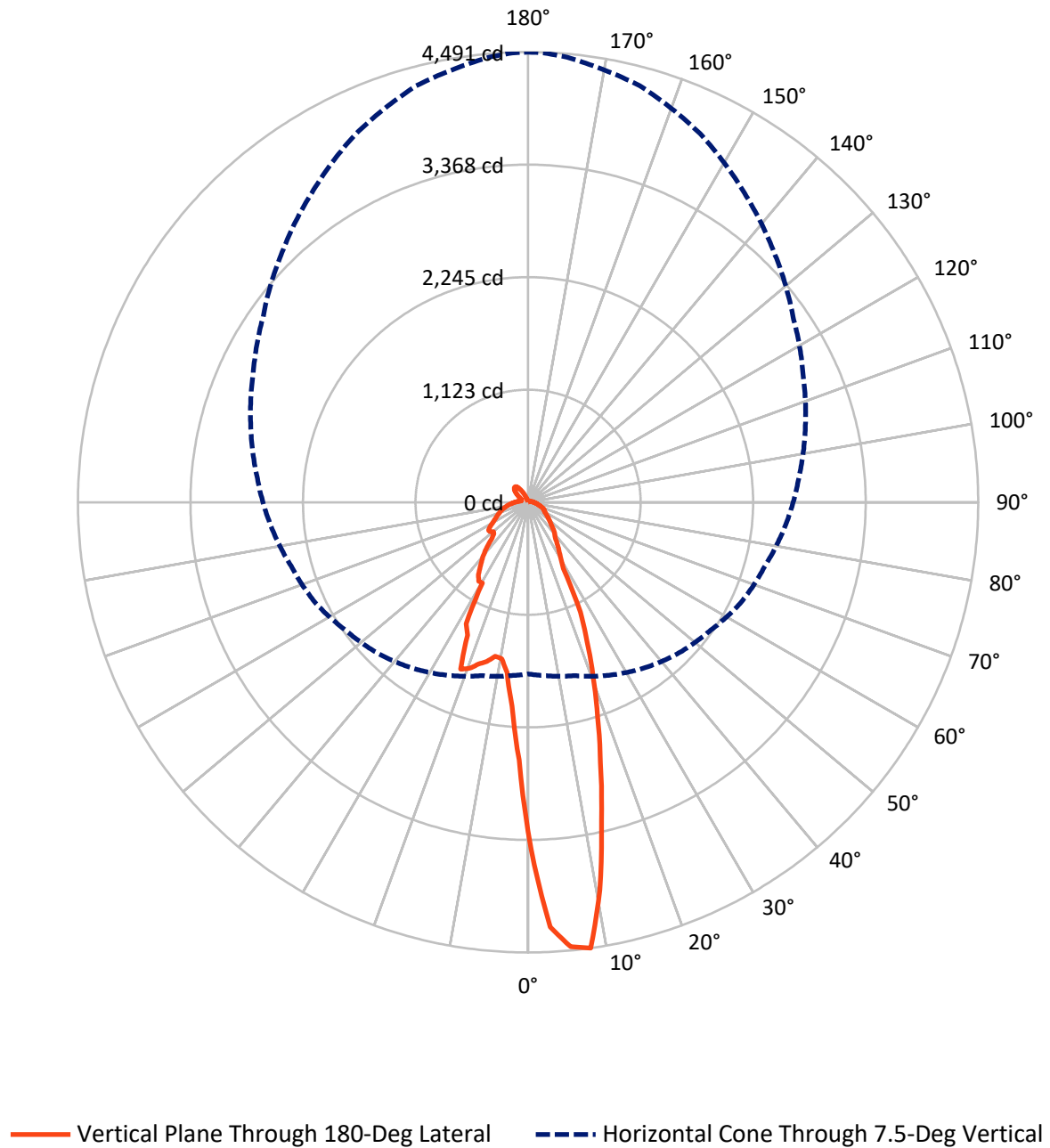
Based on 25 foot mounting height. Maximum calculated value = 7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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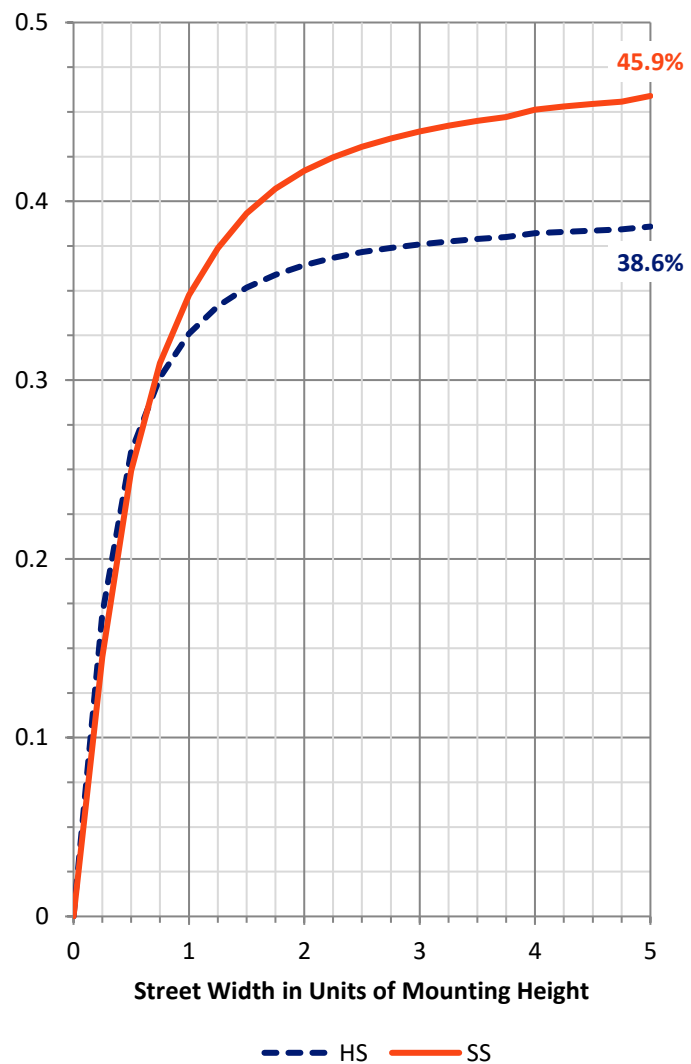
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1638.7	170.9	1809.6
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	1954.1	375.3	2329.4
	% Fixture	47.2	9.1	56.3
Total	Lumens	3592.8	546.2	4139.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.3	6.7
10°-20°	593.2	14.3
20°-30°	655.1	15.8
30°-40°	475.1	11.5
40°-50°	400.3	9.7
50°-60°	408.7	9.9
60°-70°	348.3	8.4
70°-80°	259.6	6.3
80°-90°	175.3	4.2
90°-100°	104.8	2.5
100°-110°	60.2	1.5
110°-120°	56.3	1.4
120°-130°	82.0	2.0
130°-140°	111.5	2.7
140°-150°	90.7	2.2
150°-160°	36.2	0.9
160°-170°	4.4	0.1
170°-180°	0.0	0.0
0°-90°	3592.8	86.8
0°-180°	4139.0	100.0

Coefficient of Utilization



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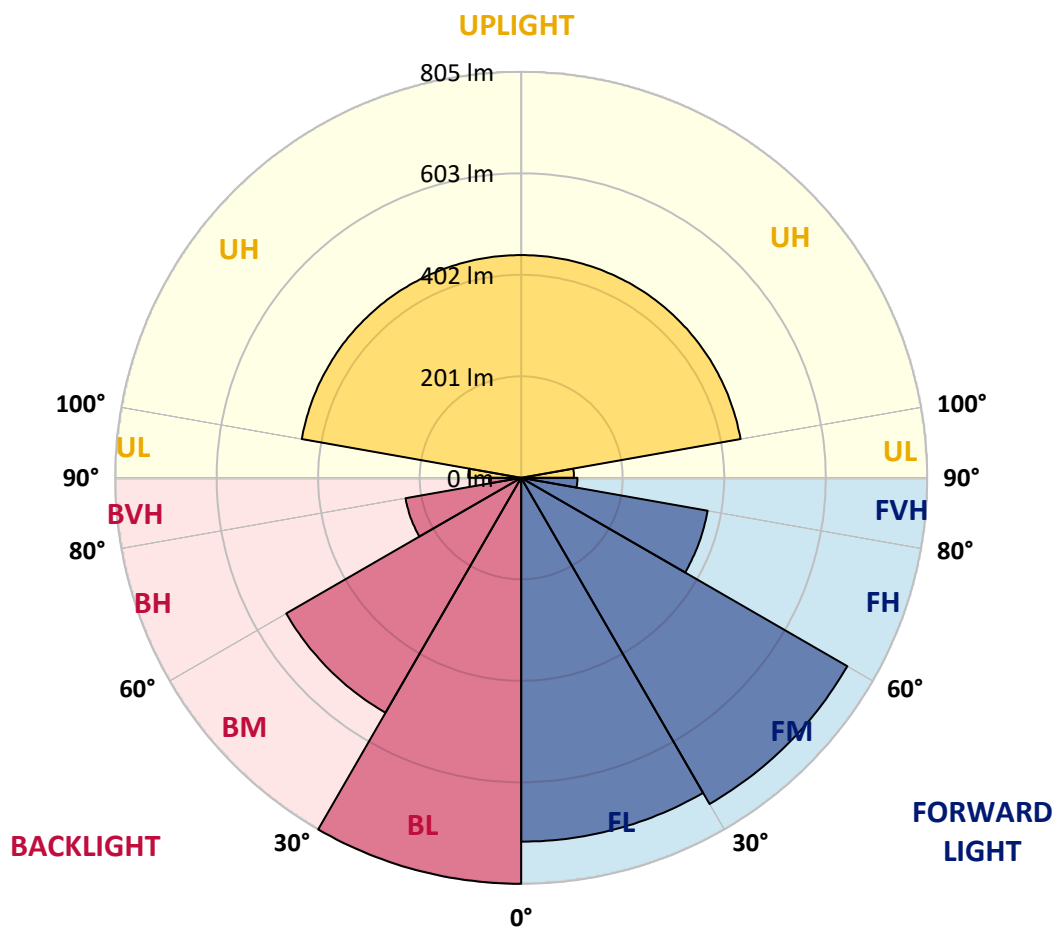
CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-8027-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	721.0	17.4			
FM	(30°-60°)	746.4	18.0			
FH	(60°-80°)	375.2	9.1			G0/660
FVH	(80°-90°)	111.5	2.7			G2/225
BL	(0°-30°)	804.6	19.4	B2/1000		
BM	(30°-60°)	537.6	13.0	B1/1000		
BH	(60°-80°)	232.7	5.6	B1/500		G1/500
BVH	(80°-90°)	63.8	1.5			G1/100
UL	(90°-100°)	104.8	2.5		U3/500	
UH	(100°-180°)	441.4	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°	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0
2.5°	2568.7	2628.3	2633.7	2698.7	2747.5	2792.6	2825.2	2919.1	3014.8	3105.1	3157.5
5°	2039.4	2068.3	2120.7	2191.1	2281.4	2351.9	2453.0	2584.9	2711.4	2870.3	2948.0
7.5°	1712.4	1734.1	1790.1	1903.9	2017.7	2126.1	2223.6	2350.1	2447.6	2579.5	2644.5
10°	1582.4	1595.0	1642.0	1721.5	1829.9	1920.2	2005.1	2100.8	2187.5	2308.5	2355.5
12.5°	1569.7	1575.2	1613.1	1669.1	1732.3	1806.4	1876.8	1958.1	2050.2	2146.0	2182.1
15°	1638.4	1634.8	1647.4	1679.9	1716.0	1773.9	1838.9	1912.9	2001.5	2071.9	2100.8
17.5°	1687.1	1685.3	1708.8	1723.3	1757.6	1791.9	1856.9	1914.7	2001.5	2057.5	2073.7
20°	1757.6	1761.2	1768.4	1795.5	1810.0	1833.5	1873.2	1907.5	1981.6	2014.1	2010.5
22.5°	1795.5	1793.7	1824.4	1887.7	1903.9	1916.6	1923.8	1938.2	1979.8	1978.0	1950.9
25°	1455.9	1459.5	1466.8	1521.0	1589.6	1701.6	1793.7	1938.2	2015.9	1987.0	1929.2
27.5°	1360.2	1349.4	1311.4	1280.7	1188.6	1127.2	1069.4	1044.1	1056.7	1078.4	1138.0
30°	926.7	928.5	932.1	937.5	946.5	970.0	986.3	988.1	1000.7	1036.9	1024.2
32.5°	928.5	930.3	924.9	930.3	926.7	935.7	933.9	926.7	937.5	970.0	957.4
35°	872.5	868.9	872.5	874.3	854.4	847.2	845.4	840.0	847.2	863.4	852.6
37.5°	785.8	784.0	800.2	809.3	793.0	793.0	789.4	782.2	787.6	802.0	787.6
40°	709.9	711.7	735.2	749.6	744.2	749.6	755.1	753.3	765.9	771.3	753.3
42.5°	626.8	623.2	646.7	657.5	646.7	650.3	648.5	650.3	675.6	686.4	673.8
45°	523.8	529.3	540.1	554.6	552.7	558.2	556.4	560.0	576.2	581.7	572.6
47.5°	466.0	469.7	482.3	498.6	507.6	516.6	516.6	518.4	529.3	531.1	522.0
50°	453.4	457.0	473.3	491.3	505.8	516.6	522.0	520.2	525.7	522.0	509.4
52.5°	475.1	475.1	500.4	522.0	540.1	560.0	567.2	560.0	560.0	545.5	525.7
55°	484.1	485.9	516.6	554.6	588.9	625.0	648.5	646.7	644.9	621.4	585.3
57.5°	455.2	460.6	491.3	534.7	581.7	639.5	673.8	679.2	679.2	648.5	608.7
60°	413.7	417.3	440.8	476.9	523.8	567.2	603.3	606.9	617.8	601.5	565.4
62.5°	379.3	382.9	402.8	429.9	464.2	491.3	502.2	502.2	507.6	502.2	476.9
65°	354.0	355.9	372.1	395.6	419.1	440.8	451.6	448.0	455.2	448.0	428.1
67.5°	330.6	330.6	345.0	363.1	384.8	410.0	417.3	420.9	428.1	419.1	401.0
70°	307.1	308.9	323.3	337.8	357.7	375.7	382.9	384.8	393.8	382.9	370.3
72.5°	287.2	287.2	299.9	314.3	328.8	346.8	352.2	355.9	361.3	350.4	339.6
75°	263.7	265.5	276.4	289.0	301.7	319.7	325.1	327.0	332.4	319.7	308.9
77.5°	242.1	243.9	252.9	263.7	276.4	290.8	296.2	299.9	301.7	290.8	280.0
80°	220.4	222.2	229.4	240.2	251.1	265.5	269.1	271.0	274.6	261.9	254.7
82.5°	200.5	200.5	205.9	215.0	225.8	238.4	243.9	245.7	247.5	236.6	229.4
85°	177.0	177.0	182.4	191.5	200.5	213.2	218.6	220.4	220.4	211.3	204.1
87.5°	157.2	157.2	160.8	168.0	175.2	187.9	193.3	196.9	195.1	187.9	180.6
90°	137.3	137.3	140.9	146.3	153.5	164.4	169.8	171.6	171.6	162.6	157.2
92.5°	119.2	119.2	122.8	128.3	133.7	142.7	148.1	151.7	151.7	144.5	139.1
95°	103.0	103.0	104.8	110.2	115.6	122.8	126.4	130.1	130.1	126.4	121.0
97.5°	88.5	88.5	90.3	93.9	97.5	103.0	106.6	110.2	110.2	108.4	104.8
100°	77.7	77.7	77.7	79.5	83.1	84.9	88.5	92.1	92.1	90.3	88.5
102.5°	70.4	70.4	70.4	70.4	70.4	72.3	72.3	74.1	74.1	74.1	72.3
105°	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	65.0	63.2	61.4
107.5°	66.8	65.0	65.0	65.0	65.0	63.2	63.2	63.2	61.4	59.6	57.8
110°	66.8	66.8	66.8	66.8	65.0	63.2	63.2	61.4	59.6	57.8	56.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	70.4	70.4	70.4	68.6	66.8	66.8	65.0	63.2	61.4	57.8	56.0
115°	75.9	75.9	75.9	75.9	74.1	70.4	68.6	66.8	63.2	61.4	59.6
117.5°	84.9	84.9	84.9	84.9	81.3	79.5	75.9	74.1	70.4	66.8	65.0
120°	95.7	95.7	97.5	97.5	95.7	92.1	86.7	84.9	81.3	75.9	72.3
122.5°	112.0	110.2	113.8	113.8	113.8	110.2	103.0	99.4	95.7	88.5	84.9
125°	128.3	128.3	131.9	135.5	137.3	131.9	124.6	119.2	113.8	104.8	99.4
127.5°	146.3	146.3	153.5	160.8	164.4	159.0	149.9	144.5	137.3	124.6	117.4
130°	164.4	164.4	175.2	186.1	191.5	187.9	178.8	171.6	162.6	146.3	137.3
132.5°	180.6	180.6	193.3	207.7	215.0	213.2	204.1	196.9	189.7	169.8	157.2
135°	193.3	195.1	211.3	227.6	236.6	238.4	229.4	220.4	211.3	189.7	175.2
137.5°	200.5	204.1	220.4	240.2	249.3	254.7	249.3	240.2	229.4	205.9	189.7
140°	202.3	204.1	222.2	242.1	251.1	258.3	258.3	247.5	238.4	215.0	196.9
142.5°	196.9	198.7	216.8	234.8	243.9	252.9	254.7	245.7	236.6	215.0	196.9
145°	184.2	187.9	204.1	218.6	231.2	240.2	243.9	238.4	227.6	207.7	191.5
147.5°	168.0	169.8	184.2	196.9	209.5	220.4	225.8	220.4	211.3	193.3	178.8
150°	142.7	144.5	155.3	166.2	180.6	191.5	198.7	195.1	187.9	173.4	159.0
152.5°	115.6	115.6	124.6	133.7	146.3	157.2	164.4	162.6	157.2	144.5	133.7
155°	88.5	88.5	93.9	101.2	112.0	119.2	126.4	126.4	122.8	113.8	104.8
157.5°	63.2	63.2	68.6	74.1	81.3	88.5	93.9	93.9	92.1	84.9	79.5
160°	41.5	41.5	45.2	48.8	56.0	59.6	65.0	65.0	63.2	59.6	56.0
162.5°	21.7	21.7	25.3	27.1	32.5	36.1	39.7	41.5	41.5	37.9	36.1
165°	7.2	7.2	7.2	9.0	12.6	16.3	18.1	19.9	19.9	18.1	18.1
167.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.4	5.4	5.4	5.4
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°	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0	3461.0
2.5°	3213.5	3377.9	3518.8	3666.9	3831.3	3970.4	4111.3	4189.0	4255.8	4243.2	4243.2
5°	3023.9	3188.2	3359.8	3540.5	3762.7	3990.3	4207.0	4362.4	4443.7	4456.3	4454.5
7.5°	2709.6	2863.1	3025.7	3226.2	3486.3	3764.5	4058.9	4302.8	4456.3	4485.2	4490.6
10°	2398.9	2514.5	2651.7	2789.0	3022.1	3276.8	3540.5	3735.6	3885.5	3907.2	3932.5
12.5°	2212.8	2276.0	2364.5	2460.3	2612.0	2798.1	3014.8	3126.8	3222.6	3233.4	3256.9
15°	2117.1	2147.8	2169.4	2203.8	2294.1	2409.7	2509.0	2619.2	2659.0	2686.1	2698.7
17.5°	2079.1	2075.5	2053.8	2053.8	2061.1	2104.4	2167.6	2205.6	2230.9	2243.5	2247.1
20°	2001.5	1968.9	1925.6	1867.8	1837.1	1822.6	1838.9	1847.9	1840.7	1831.7	1847.9
22.5°	1920.2	1851.5	1773.9	1707.0	1627.5	1578.8	1531.8	1515.5	1495.7	1508.3	1508.3
25°	1894.9	1773.9	1649.2	1537.2	1418.0	1336.7	1250.0	1219.3	1188.6	1213.9	1213.9
27.5°	1119.9	1119.9	1049.5	955.6	852.6	809.3	774.9	755.1	742.4	747.8	747.8
30°	1002.5	955.6	912.2	852.6	773.1	720.7	675.6	648.5	635.8	632.2	635.8
32.5°	930.3	894.2	841.8	782.2	711.7	653.9	603.3	576.2	556.4	560.0	561.8
35°	832.7	794.8	749.6	693.6	634.0	579.8	534.7	507.6	489.5	489.5	491.3
37.5°	771.3	733.4	690.0	639.5	581.7	529.3	487.7	455.2	438.9	437.1	437.1
40°	733.4	695.5	655.7	605.1	550.9	496.8	455.2	426.3	406.4	406.4	408.2
42.5°	664.7	628.6	594.3	549.1	500.4	453.4	413.7	388.4	368.5	364.9	368.5
45°	560.0	540.1	513.0	482.3	440.8	402.8	366.7	345.0	328.8	328.8	327.0
47.5°	513.0	493.1	464.2	433.5	399.2	361.3	332.4	312.5	298.1	298.1	298.1
50°	494.9	473.3	437.1	402.8	363.1	330.6	305.3	285.4	274.6	274.6	272.8
52.5°	504.0	469.7	422.7	373.9	336.0	303.5	278.2	258.3	249.3	249.3	247.5
55°	552.7	491.3	422.7	363.1	317.9	281.8	256.5	234.8	225.8	225.8	225.8
57.5°	572.6	504.0	419.1	352.2	301.7	263.7	233.0	213.2	204.1	204.1	202.3
60°	536.5	478.7	401.0	337.8	289.0	251.1	222.2	202.3	191.5	191.5	189.7
62.5°	457.0	415.5	355.9	308.9	271.0	236.6	211.3	191.5	182.4	182.4	182.4
65°	410.0	373.9	327.0	285.4	251.1	222.2	198.7	182.4	173.4	173.4	173.4
67.5°	382.9	352.2	305.3	265.5	231.2	204.1	182.4	168.0	160.8	159.0	160.8
70°	354.0	321.5	278.2	240.2	209.5	184.2	164.4	149.9	142.7	142.7	142.7
72.5°	323.3	292.6	251.1	216.8	186.1	166.2	146.3	133.7	126.4	126.4	124.6
75°	294.4	263.7	224.0	191.5	166.2	146.3	130.1	119.2	112.0	112.0	112.0
77.5°	267.3	238.4	200.5	171.6	148.1	131.9	115.6	106.6	101.2	101.2	99.4
80°	242.1	215.0	178.8	153.5	131.9	117.4	103.0	95.7	90.3	90.3	90.3
82.5°	216.8	191.5	159.0	135.5	117.4	103.0	92.1	84.9	81.3	79.5	81.3
85°	193.3	169.8	140.9	119.2	103.0	90.3	81.3	74.1	70.4	70.4	70.4
87.5°	171.6	149.9	124.6	104.8	90.3	79.5	70.4	65.0	63.2	61.4	61.4
90°	148.1	128.3	106.6	90.3	77.7	68.6	59.6	56.0	52.4	52.4	52.4
92.5°	131.9	115.6	95.7	81.3	70.4	63.2	56.0	52.4	48.8	48.8	48.8
95°	115.6	101.2	84.9	74.1	65.0	57.8	52.4	48.8	47.0	47.0	47.0
97.5°	99.4	88.5	75.9	66.8	59.6	54.2	48.8	45.2	43.4	43.4	43.4
100°	83.1	75.9	66.8	59.6	54.2	48.8	43.4	41.5	39.7	39.7	39.7
102.5°	68.6	63.2	56.0	50.6	45.2	41.5	37.9	36.1	34.3	34.3	34.3
105°	59.6	56.0	50.6	45.2	41.5	37.9	34.3	30.7	30.7	30.7	30.7
107.5°	56.0	50.6	47.0	43.4	39.7	34.3	32.5	28.9	27.1	27.1	27.1
110°	54.2	50.6	47.0	41.5	37.9	34.3	30.7	27.1	25.3	25.3	25.3

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CATALOG NUMBER: CRTK2-C016-5TLD-U-T3-8027-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	54.2	50.6	47.0	43.4	39.7	34.3	32.5	25.3	23.5	23.5	23.5
115°	57.8	54.2	48.8	45.2	39.7	36.1	32.5	25.3	23.5	23.5	23.5
117.5°	61.4	57.8	52.4	48.8	43.4	37.9	32.5	25.3	23.5	23.5	23.5
120°	70.4	65.0	57.8	52.4	47.0	39.7	34.3	25.3	21.7	23.5	23.5
122.5°	79.5	74.1	65.0	57.8	50.6	43.4	34.3	25.3	21.7	23.5	23.5
125°	93.9	84.9	74.1	65.0	54.2	45.2	36.1	25.3	19.9	21.7	23.5
127.5°	110.2	99.4	84.9	72.3	59.6	47.0	36.1	25.3	19.9	21.7	21.7
130°	128.3	113.8	95.7	77.7	63.2	48.8	36.1	25.3	19.9	21.7	21.7
132.5°	146.3	126.4	104.8	84.9	66.8	50.6	36.1	23.5	19.9	19.9	19.9
135°	160.8	137.3	112.0	88.5	68.6	50.6	34.3	23.5	18.1	18.1	18.1
137.5°	173.4	146.3	117.4	90.3	68.6	48.8	32.5	21.7	16.3	16.3	16.3
140°	180.6	149.9	119.2	88.5	65.0	47.0	30.7	19.9	14.5	14.5	14.5
142.5°	180.6	148.1	115.6	86.7	61.4	43.4	27.1	16.3	12.6	12.6	12.6
145°	173.4	140.9	110.2	81.3	56.0	37.9	23.5	14.5	10.8	10.8	10.8
147.5°	162.6	130.1	101.2	74.1	50.6	32.5	19.9	12.6	9.0	9.0	9.0
150°	144.5	115.6	88.5	63.2	43.4	27.1	16.3	10.8	7.2	7.2	7.2
152.5°	121.0	95.7	74.1	52.4	36.1	21.7	14.5	7.2	5.4	5.4	5.4
155°	95.7	75.9	57.8	41.5	27.1	16.3	10.8	7.2	3.6	3.6	3.6
157.5°	72.3	56.0	43.4	30.7	19.9	12.6	7.2	5.4	3.6	3.6	3.6
160°	50.6	39.7	28.9	19.9	12.6	9.0	5.4	3.6	1.8	1.8	1.8
162.5°	32.5	25.3	18.1	12.6	7.2	5.4	3.6	1.8	1.8	1.8	0.0
165°	16.3	12.6	9.0	5.4	3.6	1.8	1.8	1.8	0.0	0.0	0.0
167.5°	3.6	3.6	3.6	1.8	1.8	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)