

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: P691513

Luminaire Tested: **CRTK2-C016-D-U-T3-7040-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691513
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-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: 4485 lumens
Efficiency: N/A
Efficacy: 107.8 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): 41.6
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

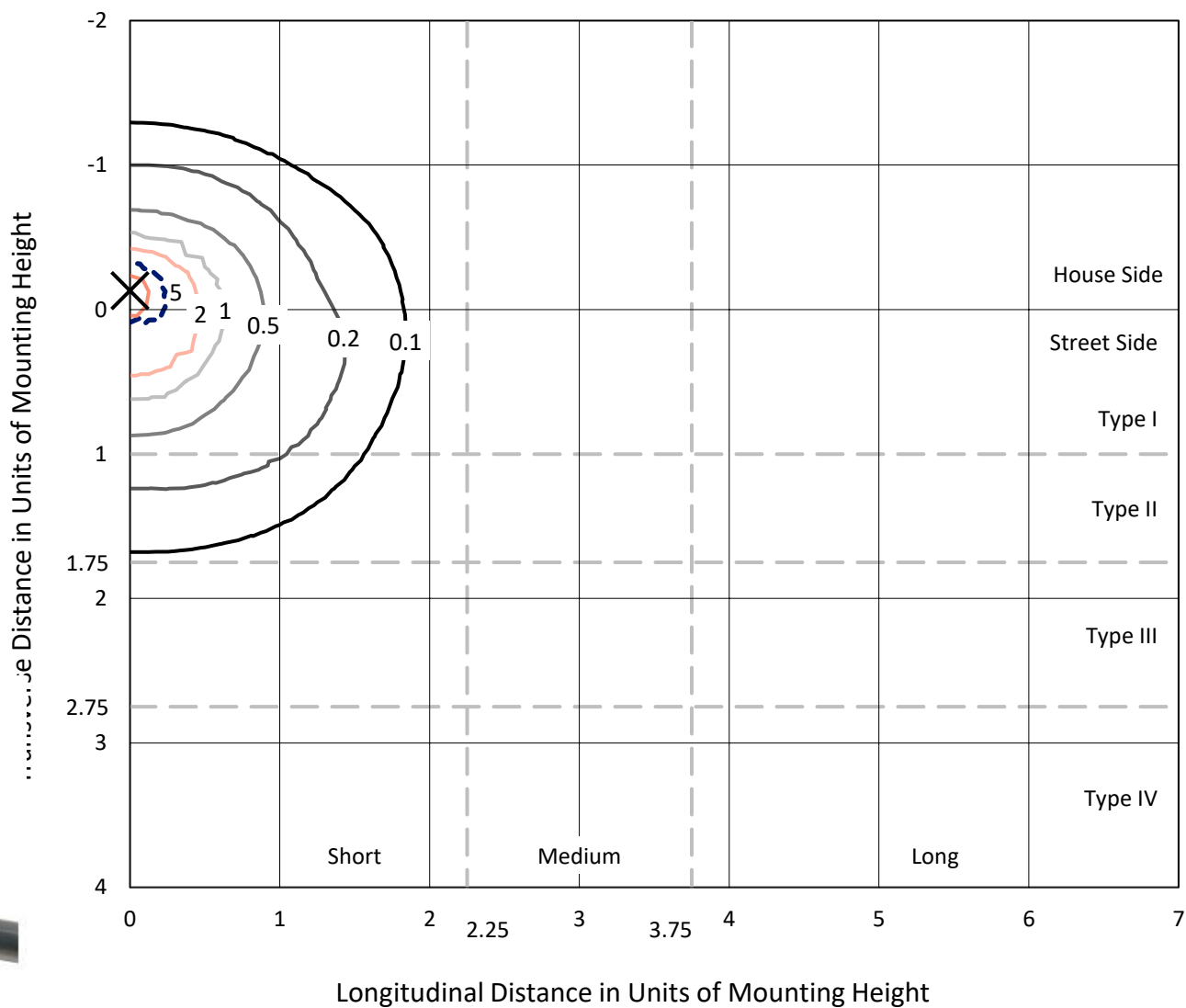


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

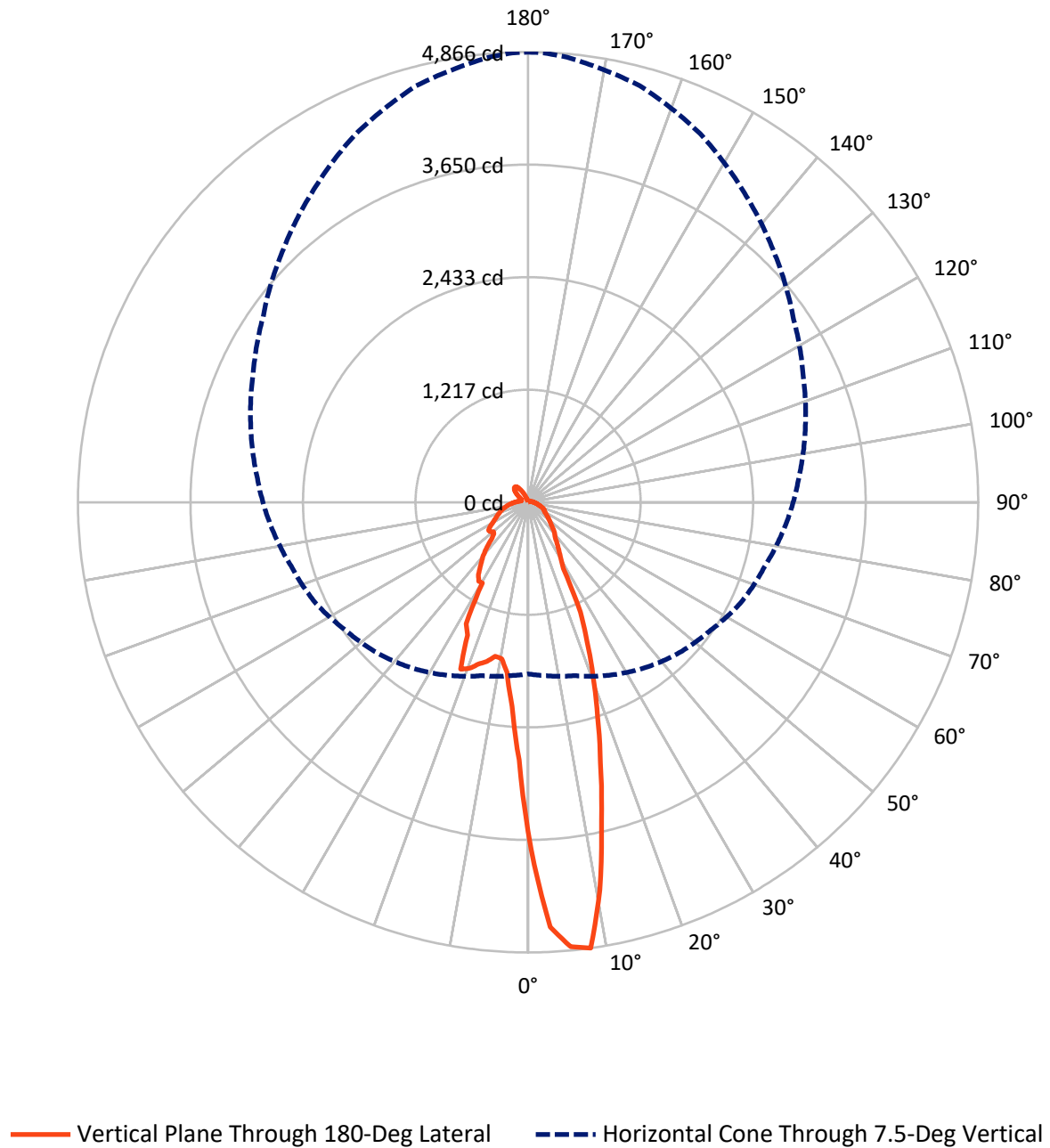


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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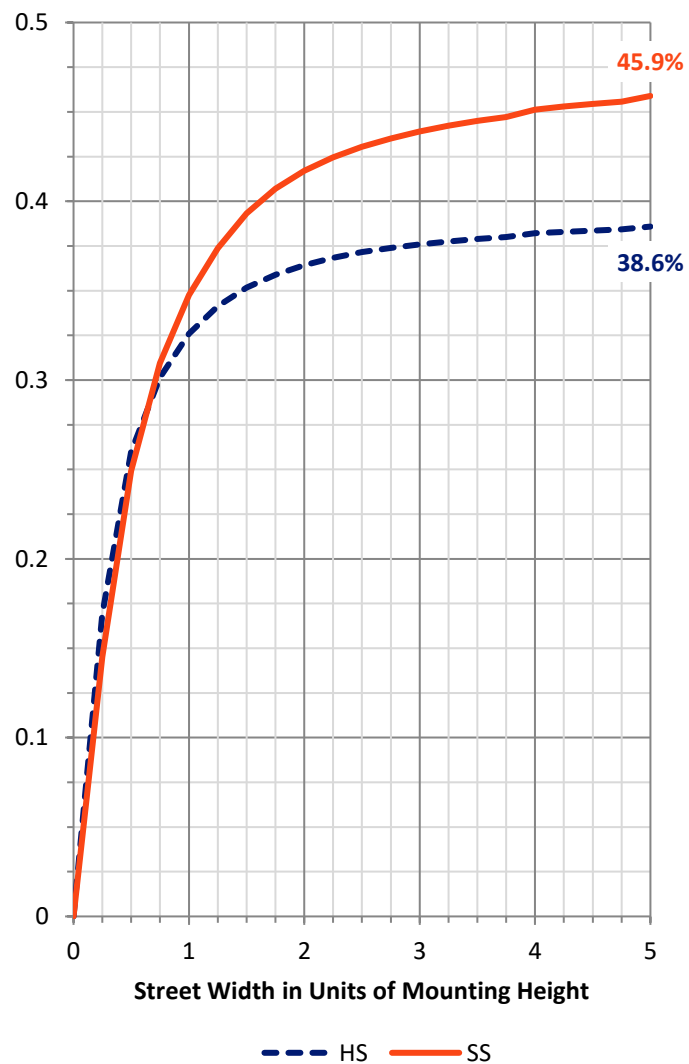
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.7	185.2	1960.9
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2117.5	406.7	2524.1
	% Fixture	47.2	9.1	56.3
Total	Lumens	3893.2	591.8	4485.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	6.7
10°-20°	642.8	14.3
20°-30°	709.9	15.8
30°-40°	514.8	11.5
40°-50°	433.7	9.7
50°-60°	442.8	9.9
60°-70°	377.4	8.4
70°-80°	281.3	6.3
80°-90°	189.9	4.2
90°-100°	113.5	2.5
100°-110°	65.3	1.5
110°-120°	61.0	1.4
120°-130°	88.9	2.0
130°-140°	120.8	2.7
140°-150°	98.3	2.2
150°-160°	39.2	0.9
160°-170°	4.8	0.1
170°-180°	0.0	0.0
0°-90°	3893.2	86.8
0°-180°	4485.0	100.0

Coefficient of Utilization



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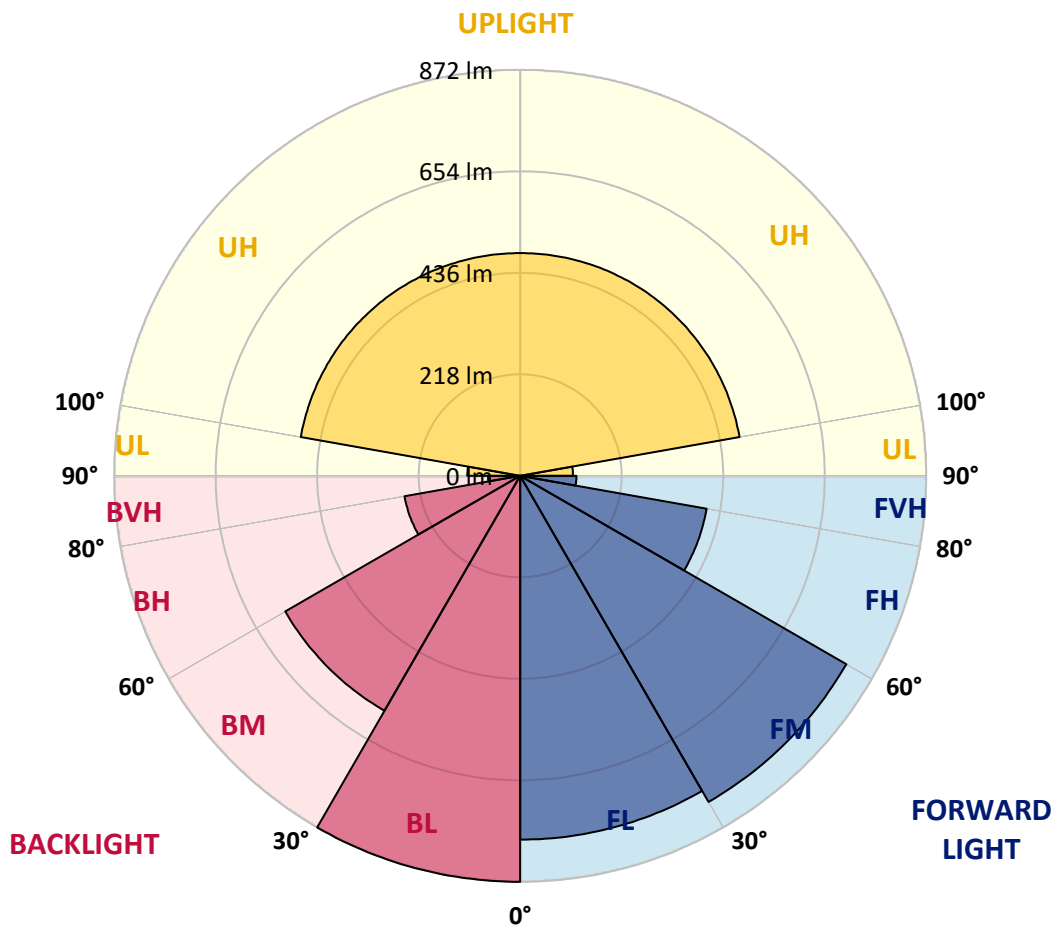
CATALOG NUMBER: CRTK2-C016-D-U-T3-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	781.3	17.4			
FM	(30°-60°)	808.8	18.0			
FH	(60°-80°)	406.5	9.1			G0/660
FVH	(80°-90°)	120.8	2.7			G2/225
BL	(0°-30°)	871.9	19.4	B2/1000		
BM	(30°-60°)	582.5	13.0	B1/1000		
BH	(60°-80°)	252.2	5.6	B1/500		G1/500
BVH	(80°-90°)	69.1	1.5			G1/100
UL	(90°-100°)	113.5	2.5		U3/500	
UH	(100°-180°)	478.3	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°	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3
2.5°	2783.4	2848.0	2853.8	2924.3	2977.2	3026.1	3061.3	3163.1	3266.9	3364.7	3421.5
5°	2209.9	2241.2	2298.0	2374.3	2472.2	2548.5	2658.1	2801.0	2938.0	3110.3	3194.4
7.5°	1855.6	1879.1	1939.8	2063.1	2186.4	2303.8	2409.5	2546.5	2652.2	2795.1	2865.6
10°	1714.7	1728.4	1779.2	1865.4	1982.8	2080.7	2172.7	2276.4	2370.4	2501.5	2552.4
12.5°	1701.0	1706.8	1747.9	1808.6	1877.1	1957.4	2033.7	2121.8	2221.6	2325.4	2364.5
15°	1775.3	1771.4	1785.1	1820.4	1859.5	1922.1	1992.6	2072.9	2168.8	2245.1	2276.4
17.5°	1828.2	1826.2	1851.7	1867.3	1904.5	1941.7	2012.2	2074.8	2168.8	2229.4	2247.1
20°	1904.5	1908.4	1916.3	1945.6	1961.3	1986.7	2029.8	2067.0	2147.2	2182.5	2178.6
22.5°	1945.6	1943.7	1976.9	2045.5	2063.1	2076.8	2084.6	2100.3	2145.3	2143.3	2114.0
25°	1577.6	1581.6	1589.4	1648.1	1722.5	1843.8	1943.7	2100.3	2184.4	2153.1	2090.5
27.5°	1473.9	1462.2	1421.1	1387.8	1287.9	1221.4	1158.8	1131.4	1145.1	1168.6	1233.1
30°	1004.1	1006.1	1010.0	1015.9	1025.7	1051.1	1068.7	1070.7	1084.4	1123.5	1109.8
32.5°	1006.1	1008.0	1002.2	1008.0	1004.1	1013.9	1012.0	1004.1	1015.9	1051.1	1037.4
35°	945.4	941.5	945.4	947.4	925.8	918.0	916.0	910.2	918.0	935.6	923.9
37.5°	851.5	849.5	867.1	876.9	859.3	859.3	855.4	847.5	853.4	869.1	853.4
40°	769.2	771.2	796.6	812.3	806.4	812.3	818.2	816.2	829.9	835.8	816.2
42.5°	679.2	675.3	700.7	712.5	700.7	704.7	702.7	704.7	732.1	743.8	730.1
45°	567.6	573.5	585.3	600.9	599.0	604.8	602.9	606.8	624.4	630.3	620.5
47.5°	505.0	508.9	522.6	540.2	550.0	559.8	559.8	561.8	573.5	575.5	565.7
50°	491.3	495.2	512.8	532.4	548.1	559.8	565.7	563.7	569.6	565.7	552.0
52.5°	514.8	514.8	542.2	565.7	585.3	606.8	614.6	606.8	606.8	591.1	569.6
55°	524.6	526.5	559.8	600.9	638.1	677.3	702.7	700.7	698.8	673.3	634.2
57.5°	493.3	499.1	532.4	579.4	630.3	692.9	730.1	736.0	736.0	702.7	659.6
60°	448.2	452.2	477.6	516.7	567.6	614.6	653.8	657.7	669.4	651.8	612.7
62.5°	411.0	415.0	436.5	465.9	503.0	532.4	544.1	544.1	550.0	544.1	516.7
65°	383.6	385.6	403.2	428.7	454.1	477.6	489.3	485.4	493.3	485.4	463.9
67.5°	358.2	358.2	373.9	393.4	416.9	444.3	452.2	456.1	463.9	454.1	434.5
70°	332.8	334.7	350.4	366.0	387.6	407.1	415.0	416.9	426.7	415.0	401.3
72.5°	311.2	311.2	324.9	340.6	356.2	375.8	381.7	385.6	391.5	379.7	368.0
75°	285.8	287.7	299.5	313.2	326.9	346.5	352.3	354.3	360.2	346.5	334.7
77.5°	262.3	264.2	274.0	285.8	299.5	315.1	321.0	324.9	326.9	315.1	303.4
80°	238.8	240.8	248.6	260.3	272.1	287.7	291.6	293.6	297.5	283.8	276.0
82.5°	217.3	217.3	223.1	232.9	244.7	258.4	264.2	266.2	268.2	256.4	248.6
85°	191.8	191.8	197.7	207.5	217.3	231.0	236.8	238.8	238.8	229.0	221.2
87.5°	170.3	170.3	174.2	182.0	189.9	203.6	209.4	213.4	211.4	203.6	195.7
90°	148.8	148.8	152.7	158.5	166.4	178.1	184.0	186.0	186.0	176.2	170.3
92.5°	129.2	129.2	133.1	139.0	144.8	154.6	160.5	164.4	164.4	156.6	150.7
95°	111.6	111.6	113.5	119.4	125.3	133.1	137.0	140.9	140.9	137.0	131.1
97.5°	95.9	95.9	97.9	101.8	105.7	111.6	115.5	119.4	119.4	117.4	113.5
100°	84.2	84.2	84.2	86.1	90.0	92.0	95.9	99.8	99.8	97.9	95.9
102.5°	76.3	76.3	76.3	76.3	76.3	78.3	78.3	80.3	80.3	80.3	78.3
105°	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	70.5	68.5	66.6
107.5°	72.4	70.5	70.5	70.5	70.5	68.5	68.5	68.5	66.6	64.6	62.6
110°	72.4	72.4	72.4	72.4	70.5	68.5	68.5	66.6	64.6	62.6	60.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	76.3	76.3	76.3	74.4	72.4	72.4	70.5	68.5	66.6	62.6	60.7
115°	82.2	82.2	82.2	82.2	80.3	76.3	74.4	72.4	68.5	66.6	64.6
117.5°	92.0	92.0	92.0	92.0	88.1	86.1	82.2	80.3	76.3	72.4	70.5
120°	103.7	103.7	105.7	105.7	103.7	99.8	94.0	92.0	88.1	82.2	78.3
122.5°	121.4	119.4	123.3	123.3	123.3	119.4	111.6	107.7	103.7	95.9	92.0
125°	139.0	139.0	142.9	146.8	148.8	142.9	135.1	129.2	123.3	113.5	107.7
127.5°	158.5	158.5	166.4	174.2	178.1	172.2	162.5	156.6	148.8	135.1	127.2
130°	178.1	178.1	189.9	201.6	207.5	203.6	193.8	186.0	176.2	158.5	148.8
132.5°	195.7	195.7	209.4	225.1	232.9	231.0	221.2	213.4	205.5	184.0	170.3
135°	209.4	211.4	229.0	246.6	256.4	258.4	248.6	238.8	229.0	205.5	189.9
137.5°	217.3	221.2	238.8	260.3	270.1	276.0	270.1	260.3	248.6	223.1	205.5
140°	219.2	221.2	240.8	262.3	272.1	279.9	279.9	268.2	258.4	232.9	213.4
142.5°	213.4	215.3	234.9	254.5	264.2	274.0	276.0	266.2	256.4	232.9	213.4
145°	199.7	203.6	221.2	236.8	250.5	260.3	264.2	258.4	246.6	225.1	207.5
147.5°	182.0	184.0	199.7	213.4	227.1	238.8	244.7	238.8	229.0	209.4	193.8
150°	154.6	156.6	168.3	180.1	195.7	207.5	215.3	211.4	203.6	187.9	172.2
152.5°	125.3	125.3	135.1	144.8	158.5	170.3	178.1	176.2	170.3	156.6	144.8
155°	95.9	95.9	101.8	109.6	121.4	129.2	137.0	137.0	133.1	123.3	113.5
157.5°	68.5	68.5	74.4	80.3	88.1	95.9	101.8	101.8	99.8	92.0	86.1
160°	45.0	45.0	48.9	52.8	60.7	64.6	70.5	70.5	68.5	64.6	60.7
162.5°	23.5	23.5	27.4	29.4	35.2	39.1	43.1	45.0	45.0	41.1	39.1
165°	7.8	7.8	7.8	9.8	13.7	17.6	19.6	21.5	21.5	19.6	19.6
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	3.9	5.9	5.9	5.9	5.9
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°	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3	3750.3
2.5°	3482.2	3660.3	3813.0	3973.5	4151.6	4302.3	4455.0	4539.1	4611.6	4597.9	4597.9
5°	3276.6	3454.8	3640.7	3836.4	4077.2	4323.8	4558.7	4727.1	4815.1	4828.8	4826.9
7.5°	2936.1	3102.4	3278.6	3495.9	3777.7	4079.2	4398.2	4662.5	4828.8	4860.2	4866.0
10°	2599.4	2724.7	2873.4	3022.2	3274.7	3550.7	3836.4	4047.8	4210.3	4233.8	4261.2
12.5°	2397.8	2466.3	2562.2	2665.9	2830.4	3032.0	3266.9	3388.2	3491.9	3503.7	3529.1
15°	2294.0	2327.3	2350.8	2388.0	2485.9	2611.1	2718.8	2838.2	2881.2	2910.6	2924.3
17.5°	2252.9	2249.0	2225.5	2225.5	2233.4	2280.3	2348.8	2389.9	2417.4	2431.1	2435.0
20°	2168.8	2133.5	2086.6	2023.9	1990.6	1975.0	1992.6	2002.4	1994.6	1984.8	2002.4
22.5°	2080.7	2006.3	1922.1	1849.7	1763.6	1710.7	1659.9	1642.2	1620.7	1634.4	1634.4
25°	2053.3	1922.1	1787.1	1665.7	1536.5	1448.5	1354.5	1321.2	1287.9	1315.4	1315.4
27.5°	1213.6	1213.6	1137.2	1035.4	923.9	876.9	839.7	818.2	804.5	810.4	810.4
30°	1086.3	1035.4	988.5	923.9	837.8	781.0	732.1	702.7	689.0	685.1	689.0
32.5°	1008.0	968.9	912.1	847.5	771.2	708.6	653.8	624.4	602.9	606.8	608.7
35°	902.3	861.2	812.3	751.6	687.0	628.3	579.4	550.0	530.4	530.4	532.4
37.5°	835.8	794.7	747.7	692.9	630.3	573.5	528.5	493.3	475.6	473.7	473.7
40°	794.7	753.6	710.5	655.7	597.0	538.3	493.3	461.9	440.4	440.4	442.4
42.5°	720.3	681.2	644.0	595.0	542.2	491.3	448.2	420.8	399.3	395.4	399.3
45°	606.8	585.3	555.9	522.6	477.6	436.5	397.3	373.9	356.2	356.2	354.3
47.5°	555.9	534.4	503.0	469.8	432.6	391.5	360.2	338.6	323.0	323.0	323.0
50°	536.3	512.8	473.7	436.5	393.4	358.2	330.8	309.3	297.5	297.5	295.6
52.5°	546.1	508.9	458.0	405.2	364.1	328.8	301.4	279.9	270.1	270.1	268.2
55°	599.0	532.4	458.0	393.4	344.5	305.3	277.9	254.5	244.7	244.7	244.7
57.5°	620.5	546.1	454.1	381.7	326.9	285.8	252.5	231.0	221.2	221.2	219.2
60°	581.3	518.7	434.5	366.0	313.2	272.1	240.8	219.2	207.5	207.5	205.5
62.5°	495.2	450.2	385.6	334.7	293.6	256.4	229.0	207.5	197.7	197.7	197.7
65°	444.3	405.2	354.3	309.3	272.1	240.8	215.3	197.7	187.9	187.9	187.9
67.5°	415.0	381.7	330.8	287.7	250.5	221.2	197.7	182.0	174.2	172.2	174.2
70°	383.6	348.4	301.4	260.3	227.1	199.7	178.1	162.5	154.6	154.6	154.6
72.5°	350.4	317.1	272.1	234.9	201.6	180.1	158.5	144.8	137.0	137.0	135.1
75°	319.1	285.8	242.7	207.5	180.1	158.5	140.9	129.2	121.4	121.4	121.4
77.5°	289.7	258.4	217.3	186.0	160.5	142.9	125.3	115.5	109.6	109.6	107.7
80°	262.3	232.9	193.8	166.4	142.9	127.2	111.6	103.7	97.9	97.9	97.9
82.5°	234.9	207.5	172.2	146.8	127.2	111.6	99.8	92.0	88.1	86.1	88.1
85°	209.4	184.0	152.7	129.2	111.6	97.9	88.1	80.3	76.3	76.3	76.3
87.5°	186.0	162.5	135.1	113.5	97.9	86.1	76.3	70.5	68.5	66.6	66.6
90°	160.5	139.0	115.5	97.9	84.2	74.4	64.6	60.7	56.8	56.8	56.8
92.5°	142.9	125.3	103.7	88.1	76.3	68.5	60.7	56.8	52.8	52.8	52.8
95°	125.3	109.6	92.0	80.3	70.5	62.6	56.8	52.8	50.9	50.9	50.9
97.5°	107.7	95.9	82.2	72.4	64.6	58.7	52.8	48.9	47.0	47.0	47.0
100°	90.0	82.2	72.4	64.6	58.7	52.8	47.0	45.0	43.1	43.1	43.1
102.5°	74.4	68.5	60.7	54.8	48.9	45.0	41.1	39.1	37.2	37.2	37.2
105°	64.6	60.7	54.8	48.9	45.0	41.1	37.2	33.3	33.3	33.3	33.3
107.5°	60.7	54.8	50.9	47.0	43.1	37.2	35.2	31.3	29.4	29.4	29.4
110°	58.7	54.8	50.9	45.0	41.1	37.2	33.3	29.4	27.4	27.4	27.4

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CATALOG NUMBER: CRTK2-C016-D-U-T3-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	58.7	54.8	50.9	47.0	43.1	37.2	35.2	27.4	25.4	25.4	25.4
115°	62.6	58.7	52.8	48.9	43.1	39.1	35.2	27.4	25.4	25.4	25.4
117.5°	66.6	62.6	56.8	52.8	47.0	41.1	35.2	27.4	25.4	25.4	25.4
120°	76.3	70.5	62.6	56.8	50.9	43.1	37.2	27.4	23.5	25.4	25.4
122.5°	86.1	80.3	70.5	62.6	54.8	47.0	37.2	27.4	23.5	25.4	25.4
125°	101.8	92.0	80.3	70.5	58.7	48.9	39.1	27.4	21.5	23.5	25.4
127.5°	119.4	107.7	92.0	78.3	64.6	50.9	39.1	27.4	21.5	23.5	23.5
130°	139.0	123.3	103.7	84.2	68.5	52.8	39.1	27.4	21.5	23.5	23.5
132.5°	158.5	137.0	113.5	92.0	72.4	54.8	39.1	25.4	21.5	21.5	21.5
135°	174.2	148.8	121.4	95.9	74.4	54.8	37.2	25.4	19.6	19.6	19.6
137.5°	187.9	158.5	127.2	97.9	74.4	52.8	35.2	23.5	17.6	17.6	17.6
140°	195.7	162.5	129.2	95.9	70.5	50.9	33.3	21.5	15.7	15.7	15.7
142.5°	195.7	160.5	125.3	94.0	66.6	47.0	29.4	17.6	13.7	13.7	13.7
145°	187.9	152.7	119.4	88.1	60.7	41.1	25.4	15.7	11.7	11.7	11.7
147.5°	176.2	140.9	109.6	80.3	54.8	35.2	21.5	13.7	9.8	9.8	9.8
150°	156.6	125.3	95.9	68.5	47.0	29.4	17.6	11.7	7.8	7.8	7.8
152.5°	131.1	103.7	80.3	56.8	39.1	23.5	15.7	7.8	5.9	5.9	5.9
155°	103.7	82.2	62.6	45.0	29.4	17.6	11.7	7.8	3.9	3.9	3.9
157.5°	78.3	60.7	47.0	33.3	21.5	13.7	7.8	5.9	3.9	3.9	3.9
160°	54.8	43.1	31.3	21.5	13.7	9.8	5.9	3.9	2.0	2.0	2.0
162.5°	35.2	27.4	19.6	13.7	7.8	5.9	3.9	2.0	2.0	2.0	0.0
165°	17.6	13.7	9.8	5.9	3.9	2.0	2.0	2.0	0.0	0.0	0.0
167.5°	3.9	3.9	3.9	2.0	2.0	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)