

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: P691481

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

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691481
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-D-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: 4397 lumens
Efficiency: N/A
Efficacy: 105.7 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): 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

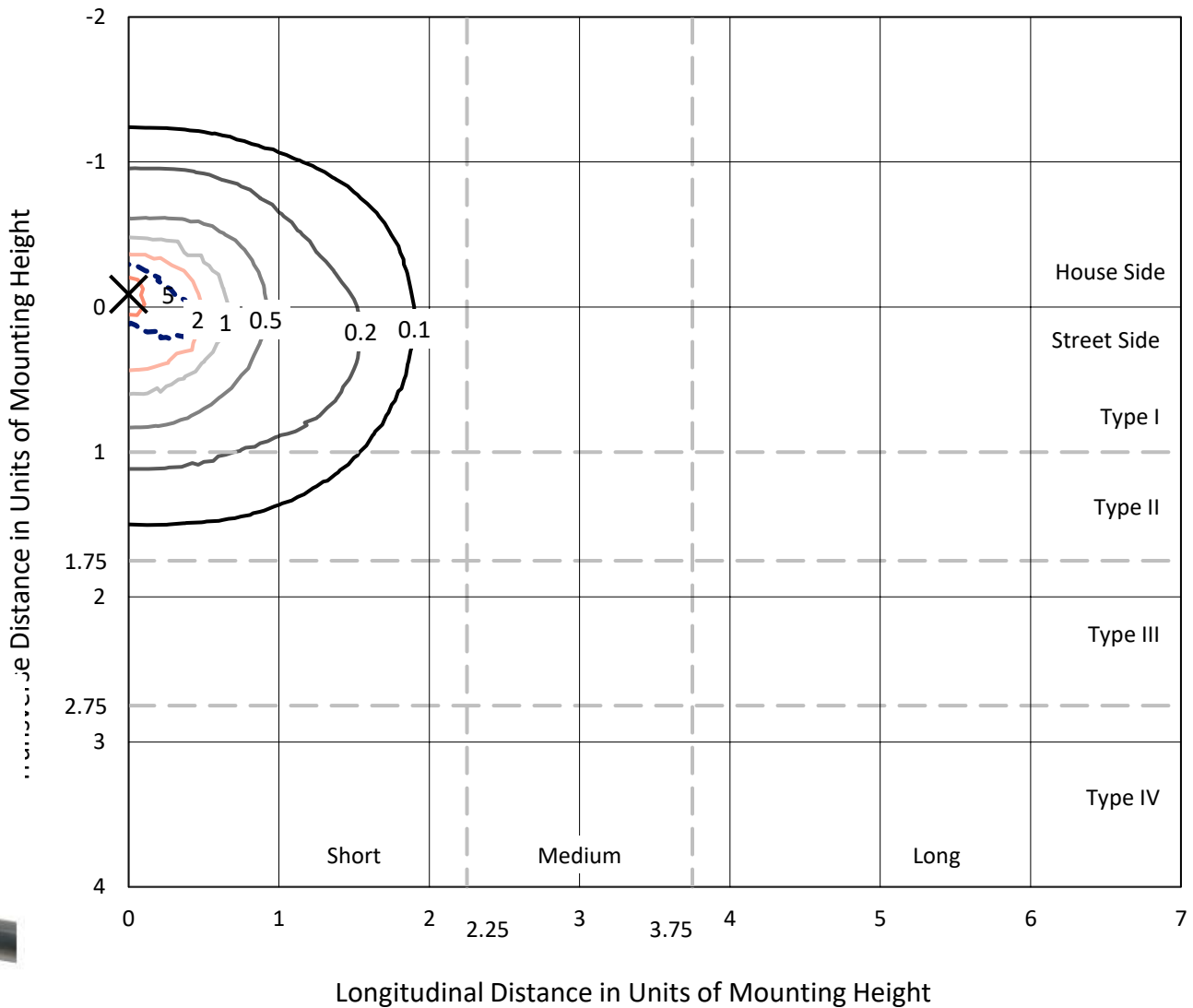


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

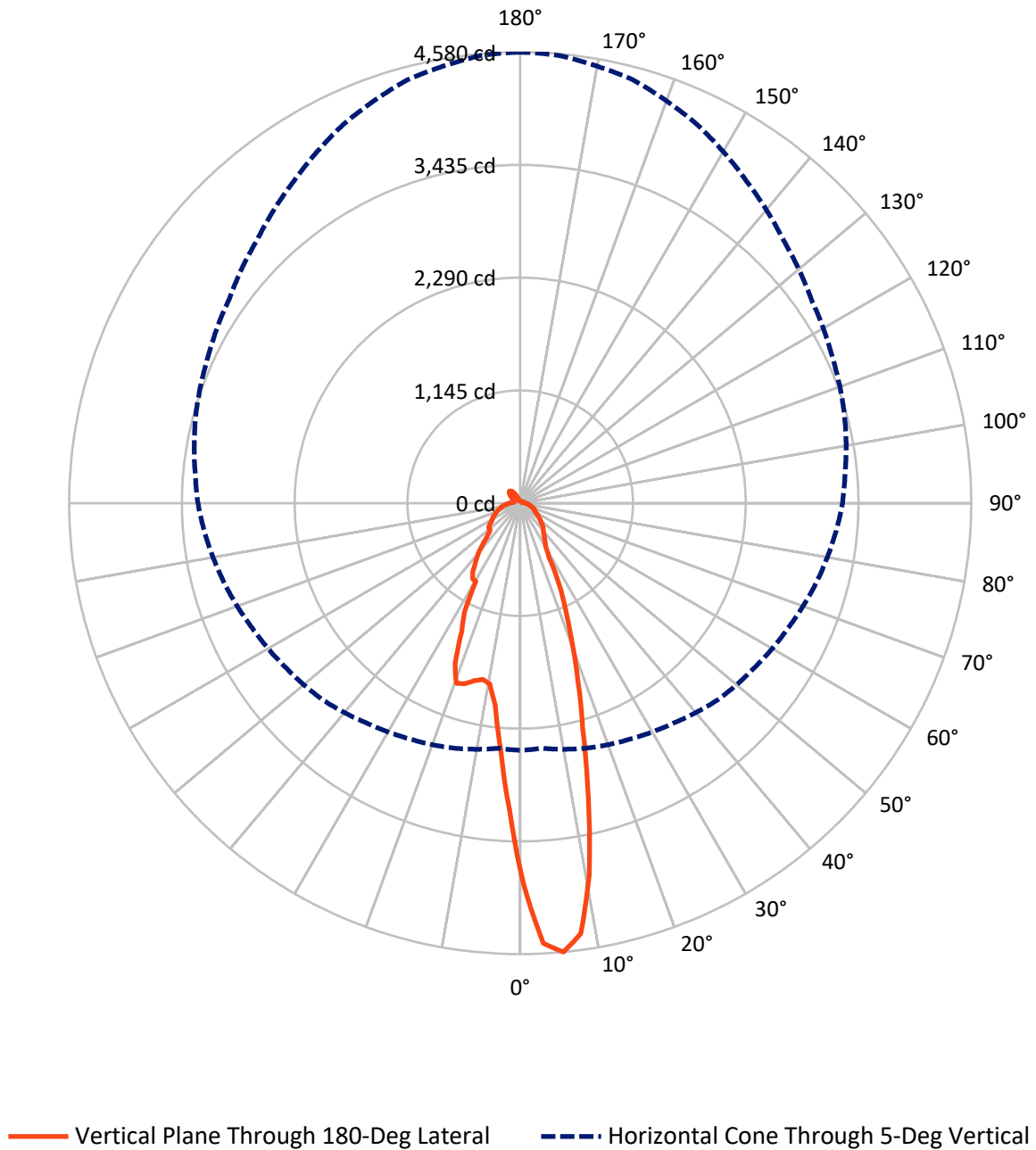


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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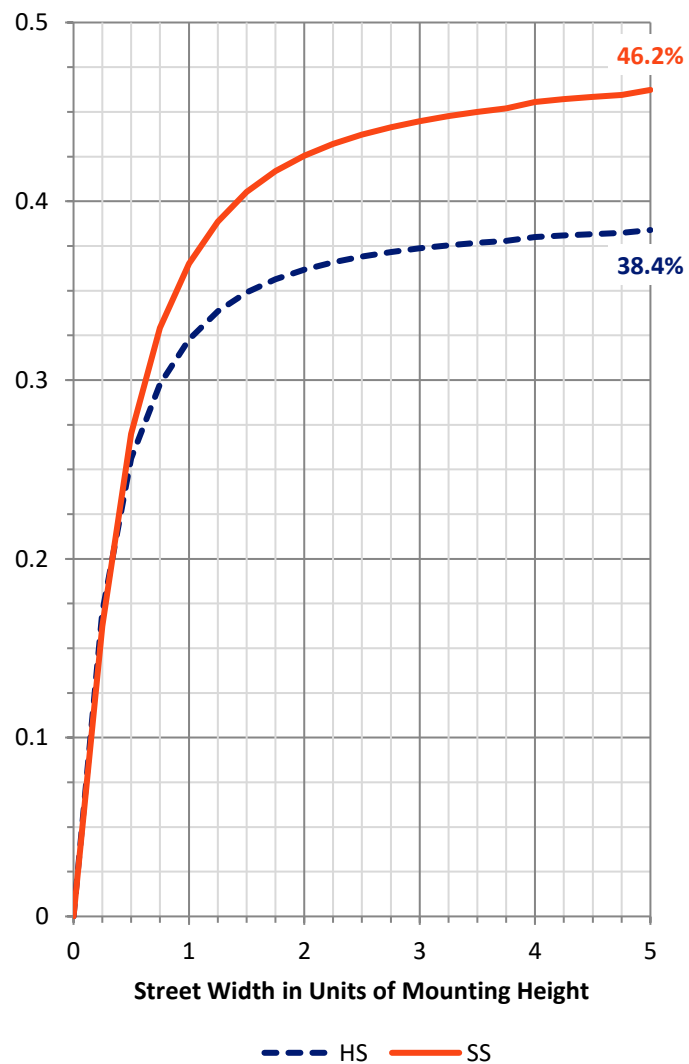
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1732.8	203.4	1936.3
	% Fixture	39.4	4.6	44.0
Street Side	Lumens	2082.6	378.2	2460.8
	% Fixture	47.4	8.6	56.0
Total	Lumens	3815.4	581.6	4397.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.2	6.8
10°-20°	634.9	14.4
20°-30°	691.0	15.7
30°-40°	505.8	11.5
40°-50°	425.2	9.7
50°-60°	431.8	9.8
60°-70°	367.1	8.3
70°-80°	273.9	6.2
80°-90°	186.4	4.2
90°-100°	112.0	2.5
100°-110°	64.2	1.5
110°-120°	59.1	1.3
120°-130°	85.9	2.0
130°-140°	118.1	2.7
140°-150°	97.7	2.2
150°-160°	39.8	0.9
160°-170°	4.9	0.1
170°-180°	0.0	0.0
0°-90°	3815.4	86.8
0°-180°	4397.0	100.0

Coefficient of Utilization



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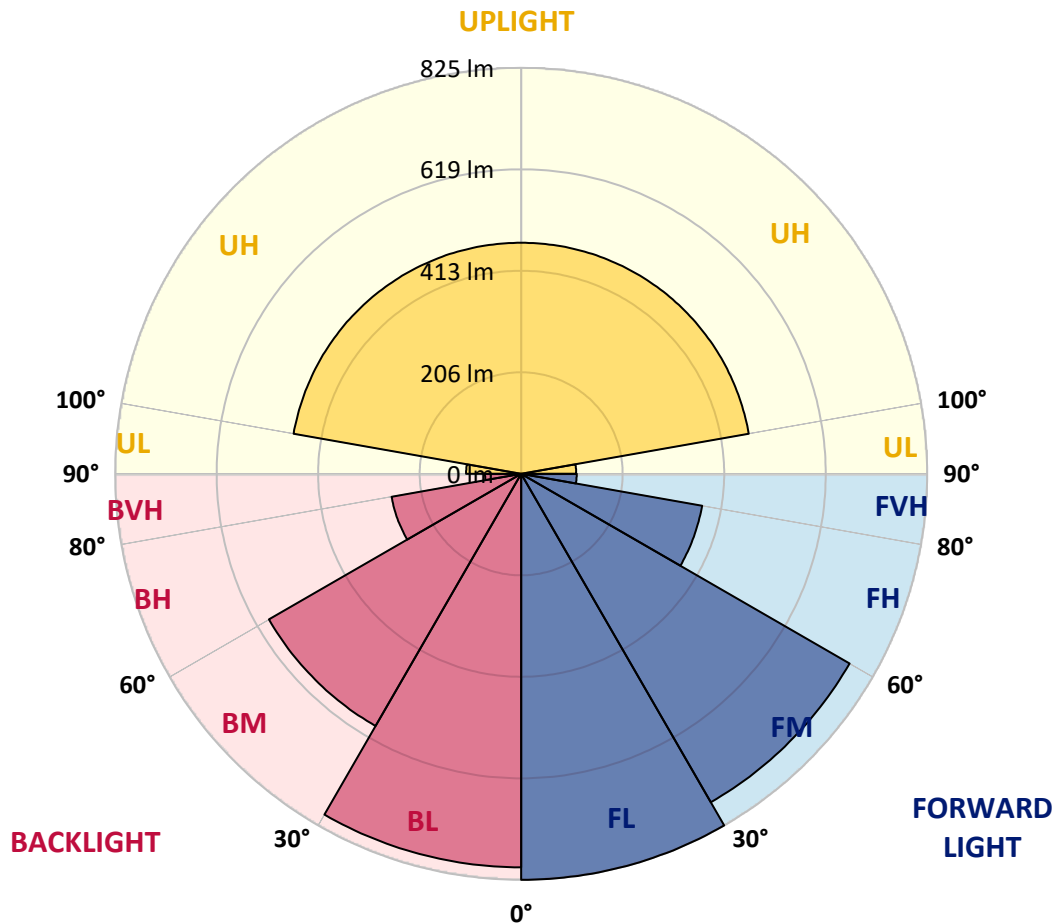
CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	825.3	18.8			
FM	(30°-60°)	770.9	17.5			
FH	(60°-80°)	373.5	8.5			G0/660
FVH	(80°-90°)	112.9	2.6			G2/225
BL	(0°-30°)	799.8	18.2	B2/1000		
BM	(30°-60°)	592.0	13.5	B1/1000		
BH	(60°-80°)	267.5	6.1	B1/500		G1/500
BVH	(80°-90°)	73.5	1.7			G1/100
UL	(90°-100°)	112.0	2.5		U3/500	
UH	(100°-180°)	469.7	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°	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3
2.5°	3117.3	3111.4	3154.5	3164.3	3168.2	3213.2	3273.9	3315.1	3389.5	3461.9	3491.3
5°	2510.3	2498.5	2576.9	2643.4	2723.7	2829.4	2907.8	3001.8	3113.4	3221.1	3272.0
7.5°	2069.7	2085.4	2197.0	2334.1	2463.3	2588.6	2684.6	2764.8	2829.4	2898.0	2911.7
10°	1862.1	1875.9	1985.5	2116.7	2236.1	2363.4	2445.7	2514.2	2555.3	2606.2	2623.8
12.5°	1828.9	1838.7	1913.1	2005.1	2095.2	2210.7	2314.5	2390.8	2437.8	2479.0	2482.9
15°	1862.1	1866.1	1911.1	1971.8	2050.1	2146.1	2265.5	2351.7	2404.5	2422.2	2418.2
17.5°	1917.0	1917.0	1938.5	1989.4	2063.8	2155.9	2269.4	2357.5	2412.4	2420.2	2404.5
20°	1940.5	1944.4	1958.1	2014.9	2081.5	2165.7	2279.2	2353.6	2396.7	2375.2	2347.8
22.5°	1764.2	1756.4	1793.6	1913.1	2061.9	2212.6	2320.3	2404.5	2428.0	2355.6	2296.8
25°	1427.5	1431.4	1454.9	1513.6	1629.1	1768.2	2007.0	2263.6	2441.7	2414.3	2326.2
27.5°	1245.3	1233.6	1239.5	1249.3	1233.6	1204.2	1231.6	1225.8	1221.9	1292.3	1300.2
30°	914.4	916.4	926.2	943.8	981.0	1035.8	1094.6	1127.9	1157.2	1212.1	1204.2
32.5°	908.6	910.5	916.4	932.1	951.6	988.8	1026.0	1039.7	1071.1	1116.1	1102.4
35°	849.8	843.9	859.6	873.3	879.2	894.9	924.2	943.8	963.4	994.7	986.9
37.5°	753.9	755.8	787.2	808.7	814.6	836.1	863.5	879.2	900.7	928.1	914.4
40°	671.6	673.6	710.8	734.3	748.0	777.4	818.5	838.1	873.3	894.9	879.2
42.5°	577.6	585.5	610.9	638.3	646.2	663.8	691.2	716.7	761.7	791.1	781.3
45°	481.7	485.6	503.2	530.6	542.4	562.0	587.4	610.9	646.2	669.7	667.7
47.5°	424.9	428.8	444.5	468.0	491.5	516.9	544.4	567.8	601.1	620.7	612.9
50°	401.4	405.3	424.9	452.3	481.7	515.0	548.3	573.7	605.1	616.8	607.0
52.5°	405.3	405.3	432.7	468.0	509.1	554.1	595.3	626.6	652.0	659.9	638.3
55°	383.8	389.7	419.0	468.0	530.6	601.1	671.6	738.2	775.4	767.6	726.5
57.5°	350.5	356.4	377.9	430.8	497.4	581.6	681.4	763.7	808.7	814.6	773.4
60°	330.9	334.8	354.4	395.5	454.3	522.8	612.9	679.5	730.4	746.0	716.7
62.5°	313.3	317.2	332.9	364.2	407.3	460.2	511.1	554.1	595.3	610.9	599.2
65°	293.7	295.7	311.3	338.8	374.0	419.0	462.1	493.4	526.7	536.5	522.8
67.5°	274.1	276.1	289.8	315.3	348.5	389.7	422.9	458.2	491.5	499.3	489.5
70°	256.5	258.5	270.2	293.7	323.1	362.2	393.6	417.1	450.4	458.2	446.4
72.5°	238.9	240.8	252.6	274.1	301.5	336.8	364.2	387.7	415.1	417.1	407.3
75°	221.3	223.2	233.0	252.6	276.1	311.3	336.8	356.4	379.9	379.9	368.1
77.5°	201.7	205.6	213.4	231.1	252.6	285.9	309.4	329.0	348.5	346.6	334.8
80°	184.1	186.0	193.9	209.5	229.1	260.4	283.9	299.6	317.2	315.3	305.5
82.5°	164.5	166.4	172.3	188.0	205.6	235.0	258.5	274.1	289.8	285.9	276.1
85°	144.9	146.9	154.7	166.4	184.1	211.5	233.0	248.7	260.4	256.5	248.7
87.5°	129.2	129.2	135.1	146.9	162.5	188.0	207.6	223.2	233.0	231.1	223.2
90°	111.6	113.6	117.5	127.3	141.0	162.5	182.1	195.8	205.6	201.7	193.9
92.5°	97.9	97.9	101.8	111.6	123.4	142.9	160.6	172.3	180.1	178.2	172.3
95°	84.2	86.2	88.1	95.9	105.7	121.4	137.1	148.8	156.6	154.7	150.8
97.5°	74.4	76.4	78.3	82.2	92.0	101.8	115.5	125.3	133.2	131.2	127.3
100°	68.5	68.5	68.5	72.4	78.3	86.2	95.9	103.8	107.7	109.7	105.7
102.5°	62.7	62.7	64.6	64.6	68.5	72.4	78.3	84.2	86.2	86.2	86.2
105°	60.7	60.7	62.7	62.7	64.6	66.6	70.5	72.4	74.4	74.4	72.4
107.5°	60.7	60.7	60.7	60.7	62.7	64.6	66.6	68.5	68.5	68.5	66.6
110°	62.7	62.7	62.7	62.7	62.7	64.6	64.6	66.6	66.6	64.6	64.6

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CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	64.6	64.6	64.6	64.6	64.6	66.6	66.6	66.6	66.6	64.6	64.6
115°	68.5	68.5	68.5	70.5	70.5	70.5	70.5	70.5	70.5	68.5	66.6
117.5°	76.4	76.4	76.4	76.4	78.3	78.3	78.3	78.3	78.3	74.4	74.4
120°	86.2	84.2	86.2	88.1	90.1	90.1	90.1	90.1	90.1	86.2	84.2
122.5°	95.9	95.9	97.9	101.8	105.7	107.7	105.7	105.7	105.7	99.9	97.9
125°	107.7	107.7	113.6	121.4	127.3	129.2	127.3	127.3	127.3	121.4	117.5
127.5°	121.4	121.4	129.2	141.0	150.8	156.6	154.7	154.7	154.7	144.9	139.0
130°	135.1	135.1	146.9	162.5	178.2	182.1	184.1	186.0	186.0	174.3	166.4
132.5°	144.9	146.9	160.6	182.1	201.7	207.6	213.4	215.4	215.4	201.7	189.9
135°	154.7	156.6	174.3	199.7	221.3	235.0	240.8	242.8	244.8	229.1	215.4
137.5°	160.6	162.5	182.1	211.5	233.0	250.6	264.3	268.3	268.3	250.6	233.0
140°	160.6	162.5	184.1	211.5	235.0	256.5	272.2	280.0	280.0	262.4	246.7
142.5°	156.6	160.6	180.1	207.6	231.1	252.6	270.2	278.0	278.0	262.4	246.7
145°	148.8	150.8	170.4	193.9	217.3	242.8	262.4	270.2	270.2	254.6	238.9
147.5°	135.1	137.1	152.7	174.3	197.8	223.2	242.8	252.6	250.6	236.9	223.2
150°	117.5	117.5	131.2	148.8	172.3	195.8	215.4	225.2	225.2	211.5	199.7
152.5°	95.9	95.9	105.7	119.4	139.0	162.5	178.2	188.0	188.0	178.2	168.4
155°	74.4	74.4	82.2	92.0	107.7	125.3	137.1	146.9	146.9	139.0	131.2
157.5°	52.9	52.9	60.7	68.5	80.3	94.0	103.8	109.7	111.6	103.8	99.9
160°	35.2	35.2	39.2	45.0	54.8	64.6	70.5	76.4	78.3	72.4	70.5
162.5°	19.6	19.6	21.5	27.4	33.3	39.2	45.0	49.0	49.0	47.0	45.0
165°	5.9	5.9	7.8	9.8	13.7	17.6	19.6	21.5	23.5	23.5	21.5
167.5°	0.0	0.0	2.0	2.0	2.0	2.0	3.9	3.9	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°	179°	180°
0°	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3
2.5°	3552.0	3661.6	3781.1	3896.6	4037.6	4184.5	4319.6	4411.6	4460.5	4476.2	4476.2
5°	3311.1	3411.0	3499.1	3608.8	3779.1	4000.4	4245.2	4448.8	4564.3	4578.0	4580.0
7.5°	2935.2	3017.4	3109.5	3207.4	3358.1	3555.9	3879.0	4207.9	4395.9	4431.2	4417.5
10°	2627.8	2678.7	2733.5	2770.7	2876.4	3023.3	3242.6	3565.7	3796.7	3824.2	3843.7
12.5°	2484.8	2492.7	2477.0	2484.8	2520.1	2588.6	2696.3	2882.3	3033.1	3058.5	3072.3
15°	2412.4	2373.2	2310.6	2251.8	2220.5	2226.4	2249.9	2326.2	2351.7	2394.8	2375.2
17.5°	2379.1	2291.0	2193.1	2079.5	2009.0	1936.6	1897.4	1883.7	1873.9	1875.9	1893.5
20°	2294.9	2195.0	2038.4	1889.6	1776.0	1676.1	1591.9	1531.2	1497.9	1482.3	1494.0
22.5°	2206.8	2052.1	1868.0	1707.5	1544.9	1417.7	1321.7	1233.6	1184.6	1198.4	1182.7
25°	2208.7	1977.7	1758.4	1546.9	1394.2	1225.8	1073.0	981.0	900.7	916.4	937.9
27.5°	1392.2	1331.5	1174.9	1051.5	898.8	814.6	738.2	673.6	628.5	630.5	624.6
30°	1180.7	1118.1	1039.7	941.8	826.3	728.4	640.3	565.9	522.8	511.1	509.1
32.5°	1090.7	1037.8	965.3	869.4	763.7	665.8	577.6	509.1	466.0	464.1	464.1
35°	971.2	922.3	861.6	779.3	689.3	599.2	516.9	458.2	422.9	422.9	421.0
37.5°	896.8	853.7	795.0	718.6	638.3	548.3	475.8	422.9	385.7	383.8	385.7
40°	857.6	812.6	755.8	683.4	603.1	516.9	448.4	393.6	366.2	364.2	362.2
42.5°	779.3	744.1	695.1	628.5	558.1	481.7	417.1	368.1	344.6	342.7	344.6
45°	661.8	636.4	603.1	554.1	495.4	430.8	374.0	336.8	313.3	313.3	313.3
47.5°	607.0	583.5	546.3	497.4	446.4	385.7	338.8	307.4	285.9	285.9	285.9
50°	593.3	563.9	515.0	460.2	405.3	352.5	309.4	278.0	262.4	260.4	262.4
52.5°	612.9	567.8	501.3	436.7	376.0	325.0	283.9	254.6	238.9	238.9	238.9
55°	683.4	601.1	513.0	430.8	358.3	301.5	260.4	231.1	215.4	213.4	215.4
57.5°	730.4	626.6	516.9	424.9	346.6	285.9	240.8	209.5	193.9	191.9	193.9
60°	689.3	605.1	499.3	409.2	336.8	274.1	227.1	195.8	180.1	178.2	178.2
62.5°	571.8	522.8	446.4	370.1	311.3	256.5	213.4	184.1	168.4	166.4	168.4
65°	507.1	464.1	397.5	336.8	285.9	238.9	201.7	176.2	160.6	160.6	160.6
67.5°	471.9	432.7	370.1	311.3	264.3	221.3	186.0	162.5	148.8	148.8	148.8
70°	430.8	391.6	334.8	282.0	238.9	201.7	170.4	146.9	135.1	133.2	135.1
72.5°	395.5	356.4	303.5	254.6	215.4	182.1	154.7	133.2	123.4	121.4	123.4
75°	356.4	319.2	268.3	225.2	191.9	162.5	139.0	119.4	111.6	109.7	109.7
77.5°	323.1	287.8	240.8	201.7	172.3	144.9	123.4	109.7	101.8	99.9	99.9
80°	293.7	260.4	215.4	180.1	152.7	129.2	111.6	97.9	90.1	90.1	90.1
82.5°	262.4	233.0	191.9	158.6	135.1	115.5	97.9	86.2	80.3	80.3	80.3
85°	236.9	207.6	168.4	141.0	117.5	99.9	86.2	76.4	70.5	70.5	70.5
87.5°	209.5	184.1	148.8	123.4	103.8	88.1	74.4	64.6	62.7	60.7	60.7
90°	182.1	158.6	127.3	105.7	88.1	74.4	62.7	54.8	52.9	50.9	50.9
92.5°	162.5	141.0	115.5	95.9	80.3	66.6	58.7	50.9	49.0	49.0	47.0
95°	141.0	123.4	101.8	86.2	72.4	62.7	54.8	49.0	47.0	47.0	45.0
97.5°	121.4	105.7	90.1	78.3	66.6	58.7	50.9	47.0	43.1	43.1	43.1
100°	101.8	90.1	78.3	66.6	60.7	52.9	47.0	43.1	41.1	39.2	39.2
102.5°	82.2	74.4	64.6	58.7	50.9	45.0	41.1	37.2	35.2	35.2	35.2
105°	70.5	64.6	58.7	52.9	47.0	41.1	37.2	33.3	31.3	31.3	31.3
107.5°	64.6	60.7	54.8	49.0	45.0	39.2	35.2	29.4	27.4	29.4	29.4
110°	62.7	58.7	52.9	49.0	43.1	39.2	35.2	27.4	25.5	27.4	27.4

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CATALOG NUMBER: CRTK2-C016-D-U-T2-7040-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	179°	180°
112.5°	62.7	58.7	54.8	49.0	45.0	39.2	35.2	27.4	25.5	25.5	25.5
115°	64.6	62.7	56.8	52.9	47.0	41.1	35.2	27.4	25.5	25.5	25.5
117.5°	72.4	68.5	62.7	56.8	50.9	43.1	37.2	27.4	25.5	25.5	25.5
120°	80.3	76.4	70.5	62.7	54.8	47.0	39.2	27.4	23.5	25.5	25.5
122.5°	94.0	88.1	80.3	70.5	60.7	50.9	39.2	29.4	21.5	25.5	25.5
125°	111.6	103.8	92.0	78.3	66.6	54.8	41.1	29.4	23.5	25.5	25.5
127.5°	131.2	121.4	105.7	88.1	72.4	56.8	43.1	29.4	23.5	23.5	25.5
130°	156.6	141.0	119.4	97.9	78.3	60.7	43.1	29.4	23.5	23.5	23.5
132.5°	178.2	158.6	131.2	105.7	82.2	62.7	43.1	29.4	21.5	21.5	21.5
135°	199.7	174.3	141.0	111.6	86.2	62.7	43.1	27.4	21.5	21.5	21.5
137.5°	217.3	184.1	148.8	113.6	86.2	60.7	41.1	25.5	19.6	19.6	19.6
140°	227.1	189.9	150.8	113.6	82.2	58.7	37.2	23.5	17.6	17.6	17.6
142.5°	227.1	188.0	148.8	109.7	78.3	54.8	33.3	19.6	15.7	15.7	15.7
145°	219.3	180.1	141.0	103.8	72.4	49.0	29.4	17.6	11.7	11.7	13.7
147.5°	205.6	166.4	129.2	94.0	64.6	41.1	25.5	13.7	9.8	9.8	9.8
150°	182.1	146.9	111.6	82.2	54.8	35.2	21.5	11.7	7.8	7.8	7.8
152.5°	152.7	121.4	94.0	68.5	45.0	27.4	15.7	9.8	5.9	5.9	5.9
155°	121.4	95.9	74.4	52.9	33.3	21.5	11.7	7.8	5.9	5.9	5.9
157.5°	90.1	72.4	54.8	39.2	25.5	15.7	9.8	5.9	3.9	3.9	3.9
160°	62.7	50.9	37.2	25.5	15.7	9.8	5.9	3.9	2.0	2.0	2.0
162.5°	41.1	31.3	23.5	15.7	9.8	5.9	3.9	2.0	2.0	2.0	2.0
165°	19.6	15.7	11.7	7.8	3.9	3.9	2.0	2.0	0.0	0.0	0.0
167.5°	5.9	3.9	2.0	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)