

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: P691505

Luminaire Tested: **CRTK2-C016-D-U-T3-7030-RMARROA5-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691505
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-T3-7030-RMARROA5-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 4355.9 lumens
Efficiency: N/A
Efficacy: 104.7 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



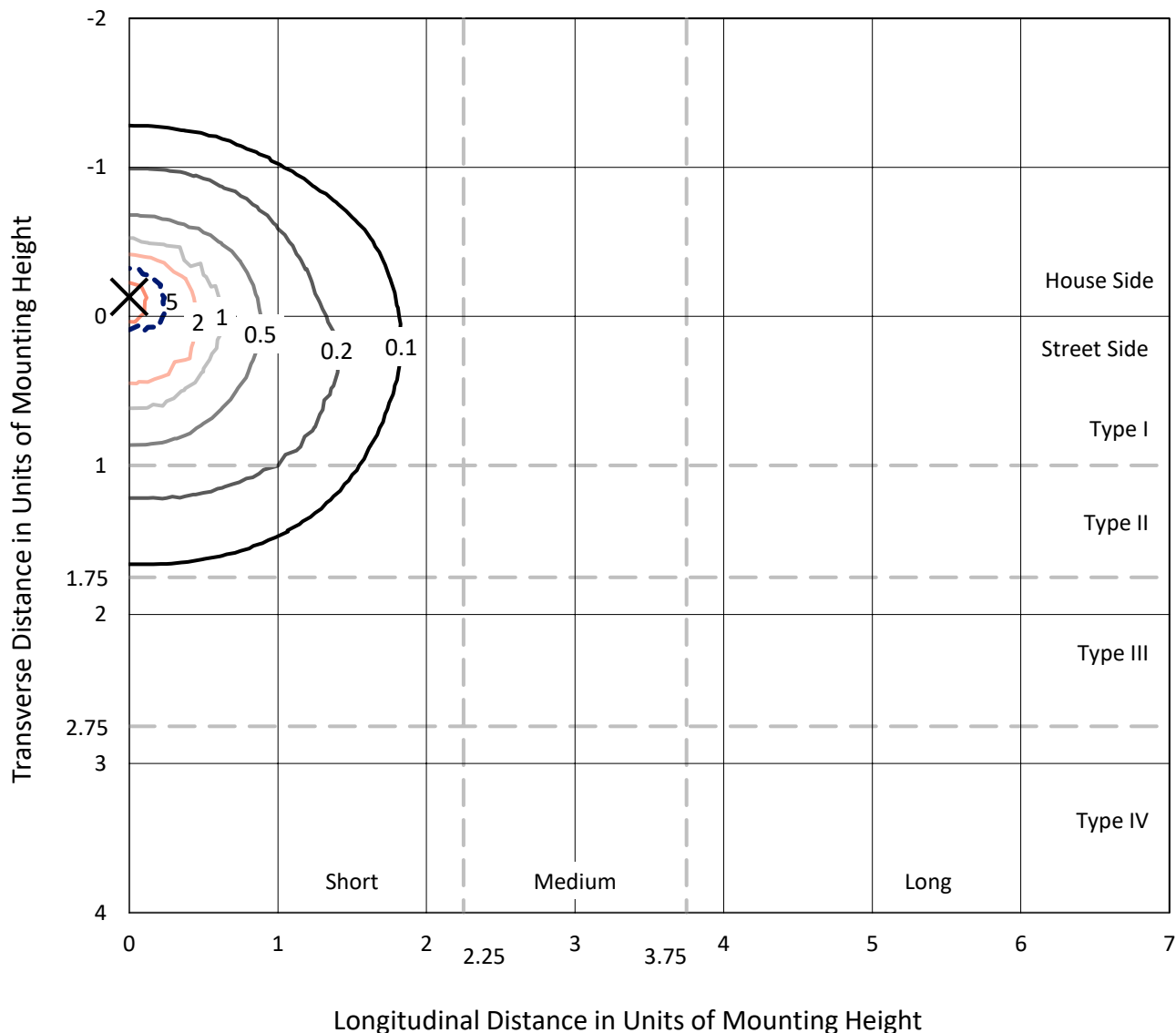
REPORT NUMBER: P691505

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

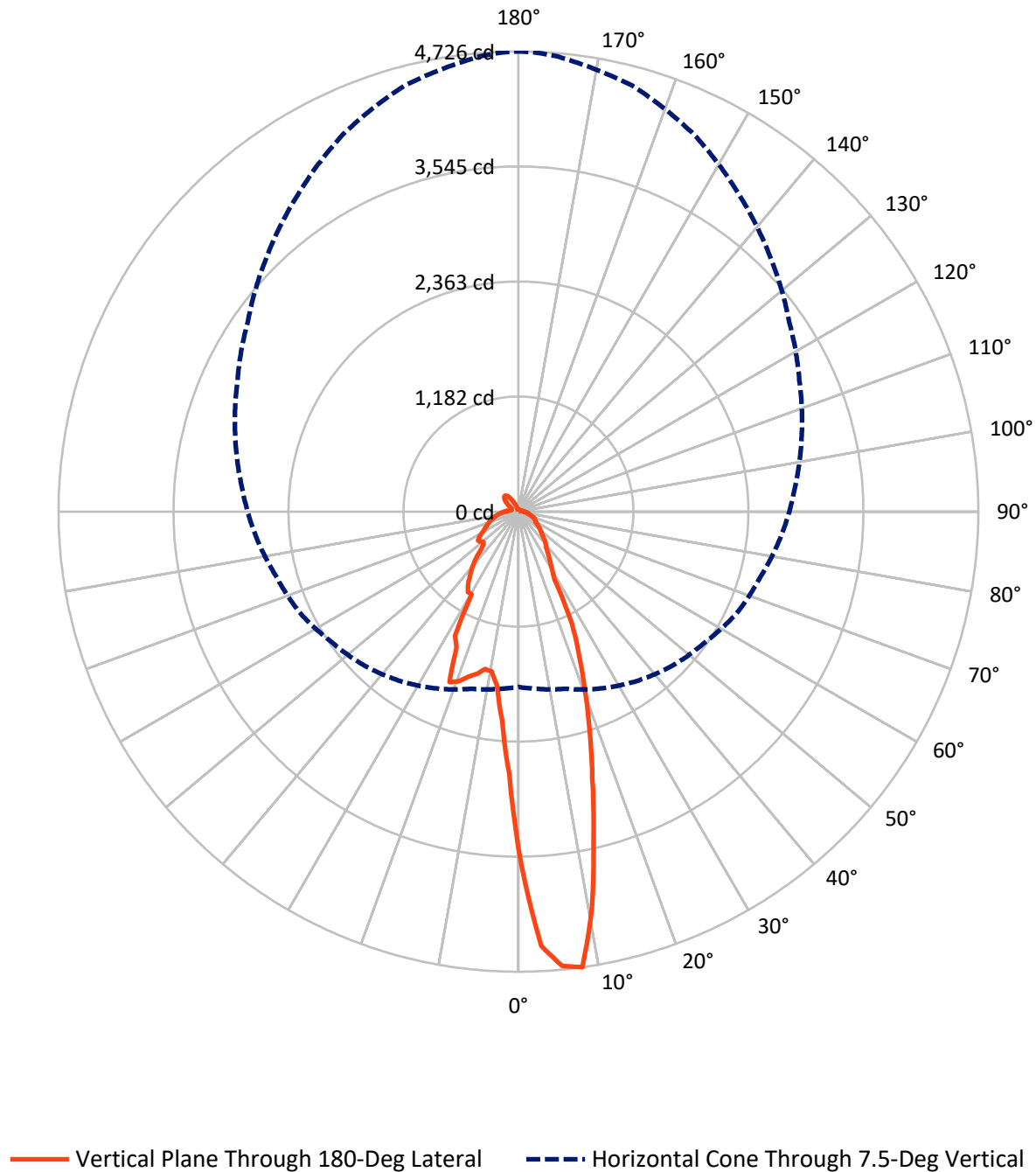


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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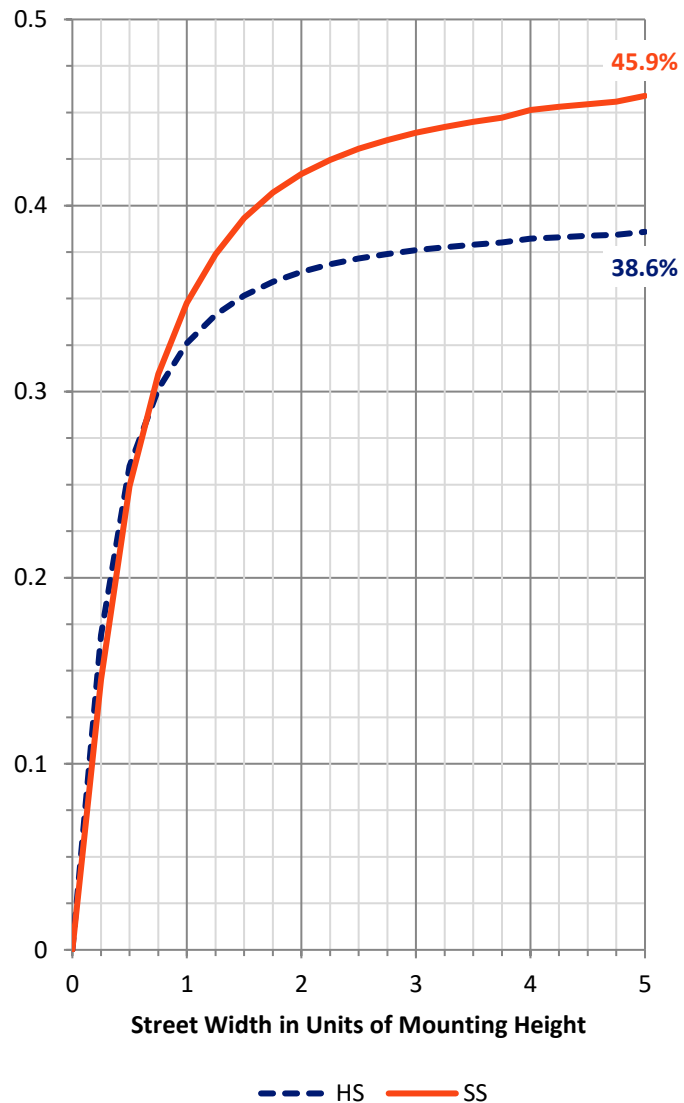
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1724.6	179.8	1904.4
	% Fixture	39.6	4.1	43.7
Street Side	Lumens	2056.6	394.9	2451.5
	% Fixture	47.2	9.1	56.3
Total	Lumens	3781.2	574.7	4355.9
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	6.7
10°-20°	624.3	14.3
20°-30°	689.4	15.8
30°-40°	500.0	11.5
40°-50°	421.3	9.7
50°-60°	430.1	9.9
60°-70°	366.5	8.4
70°-80°	273.3	6.3
80°-90°	184.4	4.2
90°-100°	110.3	2.5
100°-110°	63.4	1.5
110°-120°	59.2	1.4
120°-130°	86.3	2.0
130°-140°	117.3	2.7
140°-150°	95.5	2.2
150°-160°	38.1	0.9
160°-170°	4.6	0.1
170°-180°	0.0	0.0
0°-90°	3781.2	86.8
0°-180°	4355.9	100.0

Coefficient of Utilization



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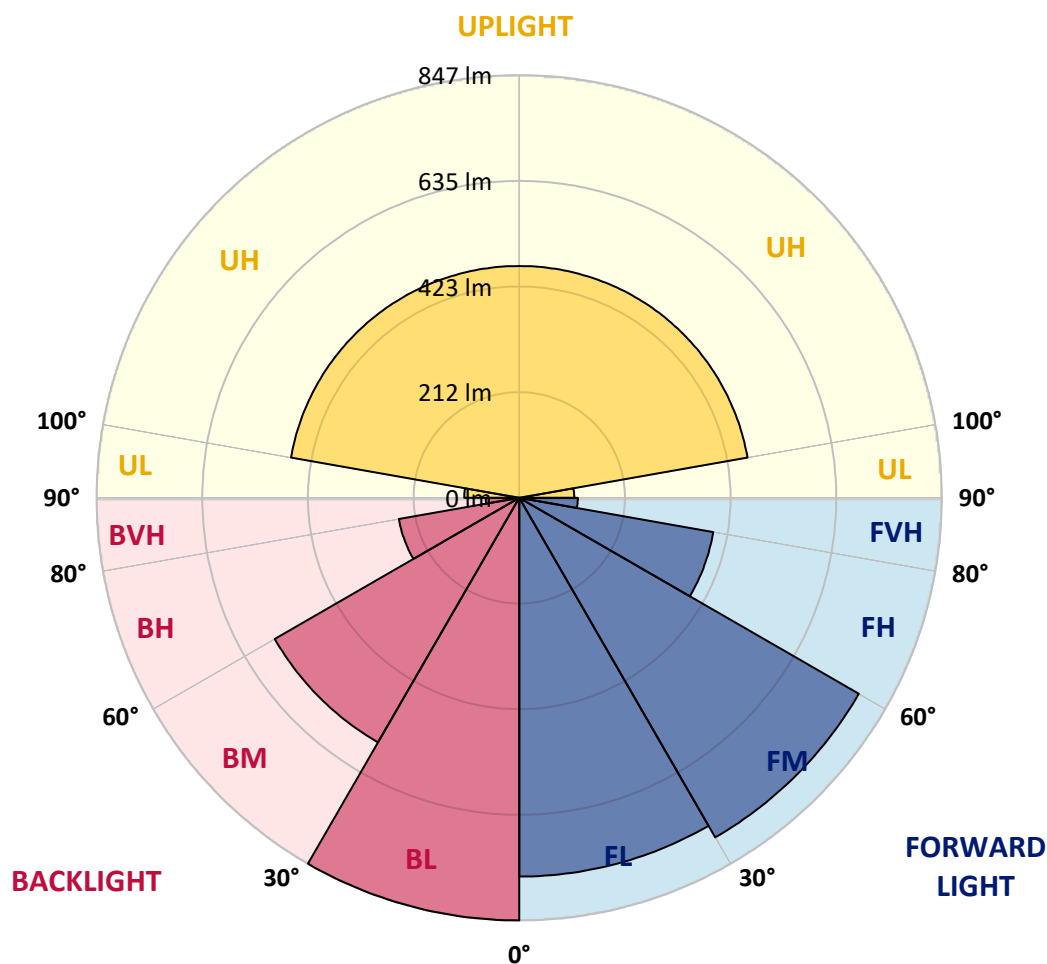
CATALOG NUMBER: CRTK2-C016-D-U-T3-7030-RMARROA5-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	758.8	17.4			
FM	(30°-60°)	785.6	18.0			
FH	(60°-80°)	394.9	9.1			G0/660
FVH	(80°-90°)	117.3	2.7			G2/225
BL	(0°-30°)	846.8	19.4	B2/1000		
BM	(30°-60°)	565.8	13.0	B1/1000		
BH	(60°-80°)	244.9	5.6	B1/500		G1/500
BVH	(80°-90°)	67.1	1.5			G1/100
UL	(90°-100°)	110.3	2.5		U3/500	
UH	(100°-180°)	464.5	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°	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5
2.5°	2703.3	2766.1	2771.8	2840.2	2891.5	2939.1	2973.3	3072.1	3172.9	3267.9	3323.1
5°	2146.3	2176.7	2231.9	2306.0	2401.1	2475.2	2581.7	2720.4	2853.5	3020.8	3102.5
7.5°	1802.2	1825.0	1884.0	2003.7	2123.5	2237.6	2340.2	2473.3	2576.0	2714.7	2783.2
10°	1665.3	1678.6	1728.1	1811.7	1925.8	2020.8	2110.2	2210.9	2302.2	2429.6	2479.0
12.5°	1652.0	1657.7	1697.7	1756.6	1823.1	1901.1	1975.2	2060.8	2157.7	2258.5	2296.5
15°	1724.3	1720.5	1733.8	1768.0	1806.0	1866.9	1935.3	2013.2	2106.4	2180.5	2210.9
17.5°	1775.6	1773.7	1798.4	1813.6	1849.7	1885.9	1954.3	2015.1	2106.4	2165.3	2182.4
20°	1849.7	1853.5	1861.1	1889.7	1904.9	1929.6	1971.4	2007.5	2085.5	2119.7	2115.9
22.5°	1889.7	1887.8	1920.1	1986.6	2003.7	2017.0	2024.6	2039.8	2083.6	2081.7	2053.2
25°	1532.3	1536.1	1543.7	1600.7	1672.9	1790.8	1887.8	2039.8	2121.6	2091.2	2030.3
27.5°	1431.5	1420.1	1380.2	1347.9	1250.9	1186.3	1125.4	1098.8	1112.1	1134.9	1197.7
30°	975.2	977.2	981.0	986.7	996.2	1020.9	1038.0	1039.9	1053.2	1091.2	1077.9
32.5°	977.2	979.1	973.3	979.1	975.2	984.8	982.9	975.2	986.7	1020.9	1007.6
35°	918.2	914.4	918.2	920.1	899.2	891.6	889.7	884.0	891.6	908.7	897.3
37.5°	827.0	825.1	842.2	851.7	834.6	834.6	830.8	823.2	828.9	844.1	828.9
40°	747.1	749.0	773.7	788.9	783.2	788.9	794.6	792.7	806.1	811.8	792.7
42.5°	659.7	655.9	680.6	692.0	680.6	684.4	682.5	684.4	711.0	722.4	709.1
45°	551.3	557.0	568.4	583.6	581.7	587.4	585.5	589.3	606.4	612.1	602.6
47.5°	490.5	494.3	507.6	524.7	534.2	543.7	543.7	545.6	557.0	558.9	549.4
50°	477.2	481.0	498.1	517.1	532.3	543.7	549.4	547.5	553.2	549.4	536.1
52.5°	500.0	500.0	526.6	549.4	568.4	589.3	596.9	589.3	589.3	574.1	553.2
55°	509.5	511.4	543.7	583.6	619.7	657.8	682.5	680.6	678.7	654.0	615.9
57.5°	479.1	484.8	517.1	562.7	612.1	673.0	709.1	714.8	714.8	682.5	640.7
60°	435.3	439.1	463.9	501.9	551.3	596.9	635.0	638.8	650.2	633.1	595.0
62.5°	399.2	403.0	423.9	452.5	488.6	517.1	528.5	528.5	534.2	528.5	501.9
65°	372.6	374.5	391.6	416.3	441.0	463.9	475.3	471.5	479.1	471.5	450.6
67.5°	347.9	347.9	363.1	382.1	404.9	431.5	439.1	442.9	450.6	441.0	422.0
70°	323.2	325.1	340.3	355.5	376.4	395.4	403.0	404.9	414.4	403.0	389.7
72.5°	302.3	302.3	315.6	330.8	346.0	365.0	370.7	374.5	380.2	368.8	357.4
75°	277.6	279.5	290.9	304.2	317.5	336.5	342.2	344.1	349.8	336.5	325.1
77.5°	254.7	256.6	266.2	277.6	290.9	306.1	311.8	315.6	317.5	306.1	294.7
80°	231.9	233.8	241.4	252.8	264.2	279.5	283.3	285.2	289.0	275.7	268.1
82.5°	211.0	211.0	216.7	226.2	237.6	250.9	256.6	258.5	260.4	249.0	241.4
85°	186.3	186.3	192.0	201.5	211.0	224.3	230.0	231.9	231.9	222.4	214.8
87.5°	165.4	165.4	169.2	176.8	184.4	197.7	203.4	207.2	205.3	197.7	190.1
90°	144.5	144.5	148.3	154.0	161.6	173.0	178.7	180.6	180.6	171.1	165.4
92.5°	125.5	125.5	129.3	135.0	140.7	150.2	155.9	159.7	159.7	152.1	146.4
95°	108.4	108.4	110.3	116.0	121.7	129.3	133.1	136.9	136.9	133.1	127.4
97.5°	93.2	93.2	95.1	98.9	102.7	108.4	112.2	116.0	116.0	114.1	110.3
100°	81.7	81.7	81.7	83.6	87.4	89.4	93.2	97.0	97.0	95.1	93.2
102.5°	74.1	74.1	74.1	74.1	74.1	76.0	76.0	77.9	77.9	77.9	76.0
105°	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	68.4	66.5	64.6
107.5°	70.3	68.4	68.4	68.4	68.4	66.5	66.5	66.5	64.6	62.7	60.8
110°	70.3	70.3	70.3	70.3	68.4	66.5	66.5	64.6	62.7	60.8	58.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	74.1	74.1	74.1	72.2	70.3	70.3	68.4	66.5	64.6	60.8	58.9
115°	79.8	79.8	79.8	79.8	77.9	74.1	72.2	70.3	66.5	64.6	62.7
117.5°	89.4	89.4	89.4	89.4	85.5	83.6	79.8	77.9	74.1	70.3	68.4
120°	100.8	100.8	102.7	102.7	100.8	97.0	91.3	89.4	85.5	79.8	76.0
122.5°	117.9	116.0	119.8	119.8	119.8	116.0	108.4	104.6	100.8	93.2	89.4
125°	135.0	135.0	138.8	142.6	144.5	138.8	131.2	125.5	119.8	110.3	104.6
127.5°	154.0	154.0	161.6	169.2	173.0	167.3	157.8	152.1	144.5	131.2	123.6
130°	173.0	173.0	184.4	195.8	201.5	197.7	188.2	180.6	171.1	154.0	144.5
132.5°	190.1	190.1	203.4	218.6	226.2	224.3	214.8	207.2	199.6	178.7	165.4
135°	203.4	205.3	222.4	239.5	249.0	250.9	241.4	231.9	222.4	199.6	184.4
137.5°	211.0	214.8	231.9	252.8	262.3	268.1	262.3	252.8	241.4	216.7	199.6
140°	212.9	214.8	233.8	254.7	264.2	271.9	271.9	260.4	250.9	226.2	207.2
142.5°	207.2	209.1	228.1	247.1	256.6	266.2	268.1	258.5	249.0	226.2	207.2
145°	193.9	197.7	214.8	230.0	243.3	252.8	256.6	250.9	239.5	218.6	201.5
147.5°	176.8	178.7	193.9	207.2	220.5	231.9	237.6	231.9	222.4	203.4	188.2
150°	150.2	152.1	163.5	174.9	190.1	201.5	209.1	205.3	197.7	182.5	167.3
152.5°	121.7	121.7	131.2	140.7	154.0	165.4	173.0	171.1	165.4	152.1	140.7
155°	93.2	93.2	98.9	106.5	117.9	125.5	133.1	133.1	129.3	119.8	110.3
157.5°	66.5	66.5	72.2	77.9	85.5	93.2	98.9	98.9	97.0	89.4	83.6
160°	43.7	43.7	47.5	51.3	58.9	62.7	68.4	68.4	66.5	62.7	58.9
162.5°	22.8	22.8	26.6	28.5	34.2	38.0	41.8	43.7	43.7	39.9	38.0
165°	7.6	7.6	7.6	9.5	13.3	17.1	19.0	20.9	20.9	19.0	19.0
167.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.7	5.7	5.7	5.7
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°	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5	3642.5
2.5°	3382.0	3555.0	3703.3	3859.2	4032.2	4178.6	4326.8	4408.6	4478.9	4465.6	4465.6
5°	3182.4	3355.4	3536.0	3726.1	3959.9	4199.5	4427.6	4591.1	4676.6	4689.9	4688.0
7.5°	2851.6	3013.2	3184.3	3395.3	3669.1	3961.8	4271.7	4528.4	4689.9	4720.4	4726.1
10°	2524.6	2646.3	2790.8	2935.3	3180.5	3448.5	3726.1	3931.4	4089.2	4112.0	4138.6
12.5°	2328.8	2395.4	2488.5	2589.3	2748.9	2944.8	3172.9	3290.8	3391.5	3402.9	3427.6
15°	2228.1	2260.4	2283.2	2319.3	2414.4	2536.0	2640.6	2756.6	2798.4	2826.9	2840.2
17.5°	2188.1	2184.3	2161.5	2161.5	2169.1	2214.7	2281.3	2321.2	2347.8	2361.1	2364.9
20°	2106.4	2072.2	2026.5	1965.7	1933.4	1918.2	1935.3	1944.8	1937.2	1927.7	1944.8
22.5°	2020.8	1948.6	1866.9	1796.5	1712.9	1661.5	1612.1	1595.0	1574.1	1587.4	1587.4
25°	1994.2	1866.9	1735.7	1617.8	1492.3	1406.8	1315.5	1283.2	1250.9	1277.5	1277.5
27.5°	1178.7	1178.7	1104.5	1005.7	897.3	851.7	815.6	794.6	781.3	787.0	787.0
30°	1055.1	1005.7	960.0	897.3	813.7	758.5	711.0	682.5	669.2	665.4	669.2
32.5°	979.1	941.0	885.9	823.2	749.0	688.2	635.0	606.4	585.5	589.3	591.2
35°	876.4	836.5	788.9	730.0	667.3	610.2	562.7	534.2	515.2	515.2	517.1
37.5°	811.8	771.8	726.2	673.0	612.1	557.0	513.3	479.1	462.0	460.1	460.1
40°	771.8	731.9	690.1	636.9	579.8	522.8	479.1	448.7	427.7	427.7	429.6
42.5°	699.6	661.6	625.5	577.9	526.6	477.2	435.3	408.7	387.8	384.0	387.8
45°	589.3	568.4	539.9	507.6	463.9	423.9	385.9	363.1	346.0	346.0	344.1
47.5°	539.9	519.0	488.6	456.3	420.1	380.2	349.8	328.9	313.7	313.7	313.7
50°	520.9	498.1	460.1	423.9	382.1	347.9	321.3	300.4	289.0	289.0	287.1
52.5°	530.4	494.3	444.9	393.5	353.6	319.4	292.8	271.9	262.3	262.3	260.4
55°	581.7	517.1	444.9	382.1	334.6	296.6	270.0	247.1	237.6	237.6	237.6
57.5°	602.6	530.4	441.0	370.7	317.5	277.6	245.2	224.3	214.8	214.8	212.9
60°	564.6	503.8	422.0	355.5	304.2	264.2	233.8	212.9	201.5	201.5	199.6
62.5°	481.0	437.2	374.5	325.1	285.2	249.0	222.4	201.5	192.0	192.0	192.0
65°	431.5	393.5	344.1	300.4	264.2	233.8	209.1	192.0	182.5	182.5	182.5
67.5°	403.0	370.7	321.3	279.5	243.3	214.8	192.0	176.8	169.2	167.3	169.2
70°	372.6	338.4	292.8	252.8	220.5	193.9	173.0	157.8	150.2	150.2	150.2
72.5°	340.3	308.0	264.2	228.1	195.8	174.9	154.0	140.7	133.1	133.1	131.2
75°	309.9	277.6	235.7	201.5	174.9	154.0	136.9	125.5	117.9	117.9	117.9
77.5°	281.4	250.9	211.0	180.6	155.9	138.8	121.7	112.2	106.5	106.5	104.6
80°	254.7	226.2	188.2	161.6	138.8	123.6	108.4	100.8	95.1	95.1	95.1
82.5°	228.1	201.5	167.3	142.6	123.6	108.4	97.0	89.4	85.5	83.6	85.5
85°	203.4	178.7	148.3	125.5	108.4	95.1	85.5	77.9	74.1	74.1	74.1
87.5°	180.6	157.8	131.2	110.3	95.1	83.6	74.1	68.4	66.5	64.6	64.6
90°	155.9	135.0	112.2	95.1	81.7	72.2	62.7	58.9	55.1	55.1	55.1
92.5°	138.8	121.7	100.8	85.5	74.1	66.5	58.9	55.1	51.3	51.3	51.3
95°	121.7	106.5	89.4	77.9	68.4	60.8	55.1	51.3	49.4	49.4	49.4
97.5°	104.6	93.2	79.8	70.3	62.7	57.0	51.3	47.5	45.6	45.6	45.6
100°	87.4	79.8	70.3	62.7	57.0	51.3	45.6	43.7	41.8	41.8	41.8
102.5°	72.2	66.5	58.9	53.2	47.5	43.7	39.9	38.0	36.1	36.1	36.1
105°	62.7	58.9	53.2	47.5	43.7	39.9	36.1	32.3	32.3	32.3	32.3
107.5°	58.9	53.2	49.4	45.6	41.8	36.1	34.2	30.4	28.5	28.5	28.5
110°	57.0	53.2	49.4	43.7	39.9	36.1	32.3	28.5	26.6	26.6	26.6



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CATALOG NUMBER: CRTK2-C016-D-U-T3-7030-RMARROA5-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	57.0	53.2	49.4	45.6	41.8	36.1	34.2	26.6	24.7	24.7	24.7
115°	60.8	57.0	51.3	47.5	41.8	38.0	34.2	26.6	24.7	24.7	24.7
117.5°	64.6	60.8	55.1	51.3	45.6	39.9	34.2	26.6	24.7	24.7	24.7
120°	74.1	68.4	60.8	55.1	49.4	41.8	36.1	26.6	22.8	24.7	24.7
122.5°	83.6	77.9	68.4	60.8	53.2	45.6	36.1	26.6	22.8	24.7	24.7
125°	98.9	89.4	77.9	68.4	57.0	47.5	38.0	26.6	20.9	22.8	24.7
127.5°	116.0	104.6	89.4	76.0	62.7	49.4	38.0	26.6	20.9	22.8	22.8
130°	135.0	119.8	100.8	81.7	66.5	51.3	38.0	26.6	20.9	22.8	22.8
132.5°	154.0	133.1	110.3	89.4	70.3	53.2	38.0	24.7	20.9	20.9	20.9
135°	169.2	144.5	117.9	93.2	72.2	53.2	36.1	24.7	19.0	19.0	19.0
137.5°	182.5	154.0	123.6	95.1	72.2	51.3	34.2	22.8	17.1	17.1	17.1
140°	190.1	157.8	125.5	93.2	68.4	49.4	32.3	20.9	15.2	15.2	15.2
142.5°	190.1	155.9	121.7	91.3	64.6	45.6	28.5	17.1	13.3	13.3	13.3
145°	182.5	148.3	116.0	85.5	58.9	39.9	24.7	15.2	11.4	11.4	11.4
147.5°	171.1	136.9	106.5	77.9	53.2	34.2	20.9	13.3	9.5	9.5	9.5
150°	152.1	121.7	93.2	66.5	45.6	28.5	17.1	11.4	7.6	7.6	7.6
152.5°	127.4	100.8	77.9	55.1	38.0	22.8	15.2	7.6	5.7	5.7	5.7
155°	100.8	79.8	60.8	43.7	28.5	17.1	11.4	7.6	3.8	3.8	3.8
157.5°	76.0	58.9	45.6	32.3	20.9	13.3	7.6	5.7	3.8	3.8	3.8
160°	53.2	41.8	30.4	20.9	13.3	9.5	5.7	3.8	1.9	1.9	1.9
162.5°	34.2	26.6	19.0	13.3	7.6	5.7	3.8	1.9	1.9	1.9	0.0
165°	17.1	13.3	9.5	5.7	3.8	1.9	1.9	1.9	0.0	0.0	0.0
167.5°	3.8	3.8	3.8	1.9	1.9	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)