

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: P853447

Luminaire Tested: **CRTK-N-50-727-U-T3-RMARROA5**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-111-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-N-50-727-U-T3-RMARROA5
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

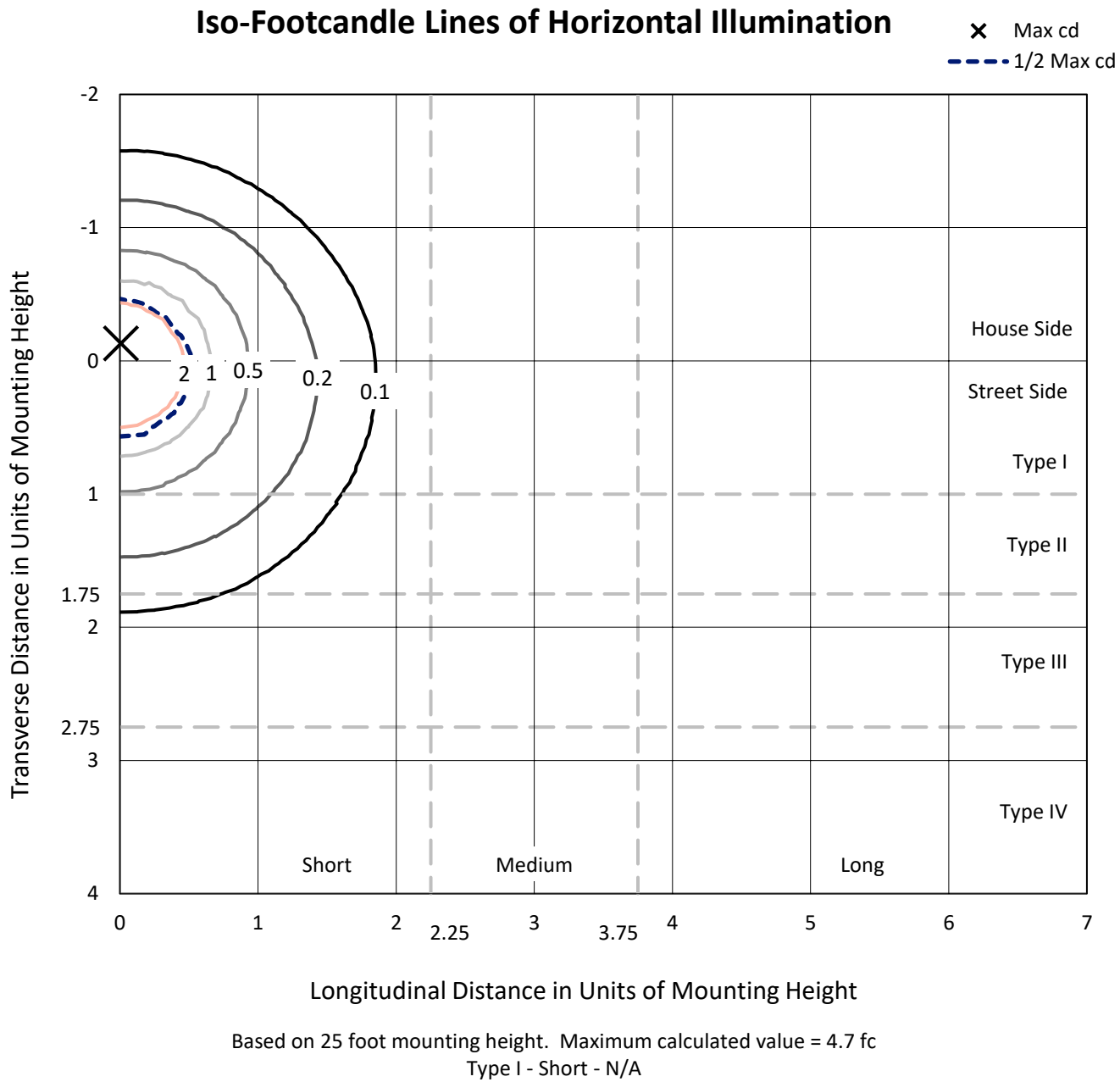
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5112 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 0.54')
IES Classification: Type I - Short
BUG Rating: B2 - U4 - G2

Input Watts (W): 47.7
Input Voltage (V): 120.0
Input Current (Ain): 0.398
Voltage Rise (V): NR
Power Factor: 0.9969
Total Harmonic Distortion (THDi): 6.56%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



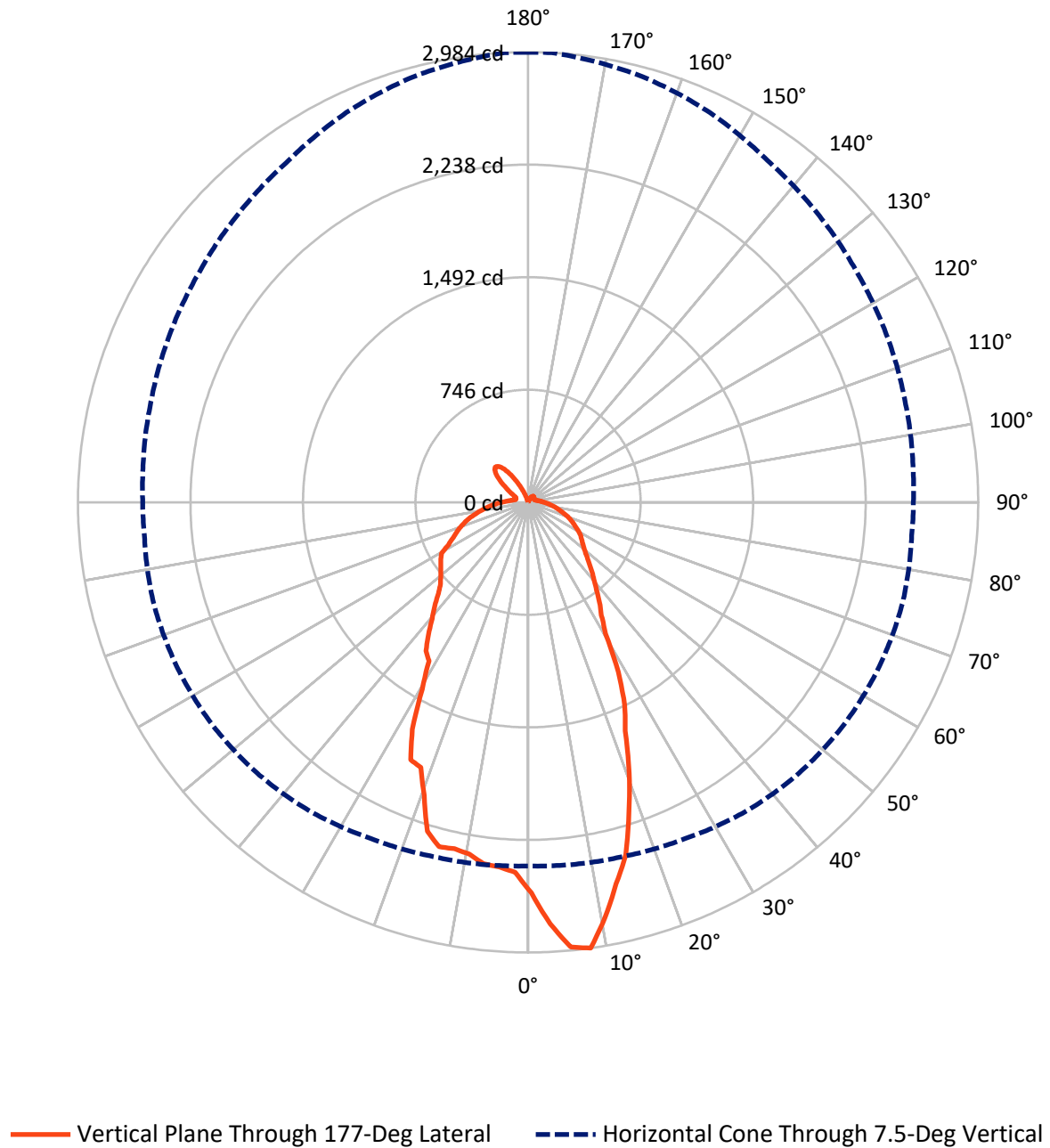
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Luminous Intensity Polar Plot



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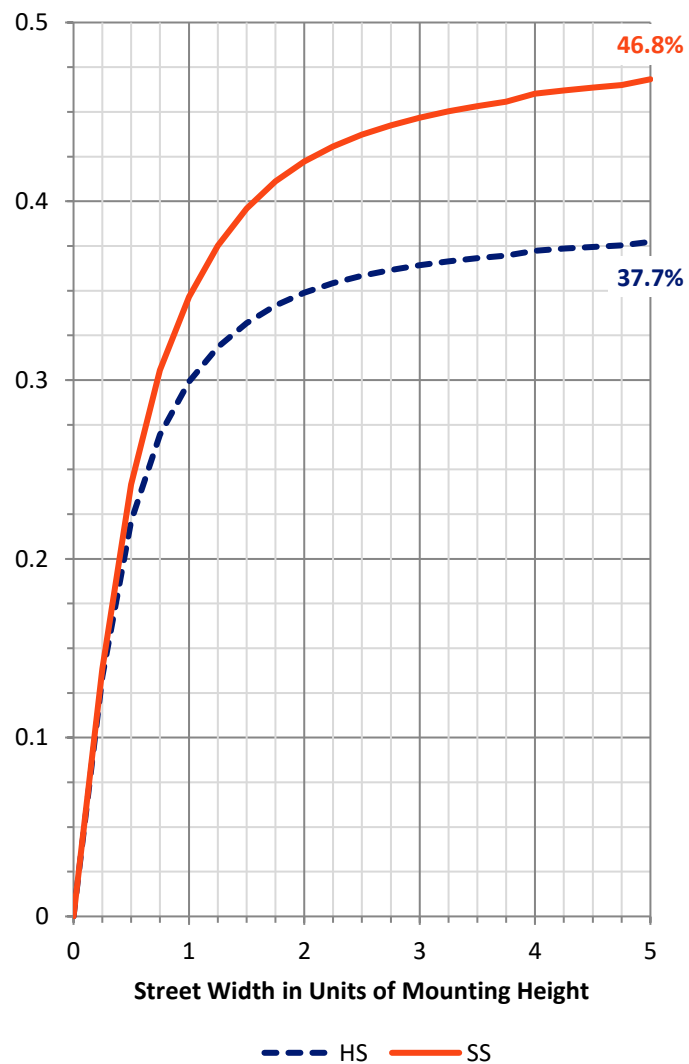
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1984.6	234.8	2219.4
	% Fixture	38.8	4.6	43.4
Street Side	Lumens	2459.5	433.2	2892.6
	% Fixture	48.1	8.5	56.6
Total	Lumens	4444.0	668.0	5112.0
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	4.9
10°-20°	651.9	12.8
20°-30°	745.2	14.6
30°-40°	635.5	12.4
40°-50°	565.0	11.1
50°-60°	545.1	10.7
60°-70°	473.7	9.3
70°-80°	355.7	7.0
80°-90°	223.2	4.4
90°-100°	121.2	2.4
100°-110°	74.9	1.5
110°-120°	76.0	1.5
120°-130°	109.8	2.1
130°-140°	141.0	2.8
140°-150°	105.3	2.1
150°-160°	36.0	0.7
160°-170°	3.8	0.1
170°-180°	0.0	0.0
0°-90°	4444.0	86.9
0°-180°	5112.0	100.0

Coefficient of Utilization



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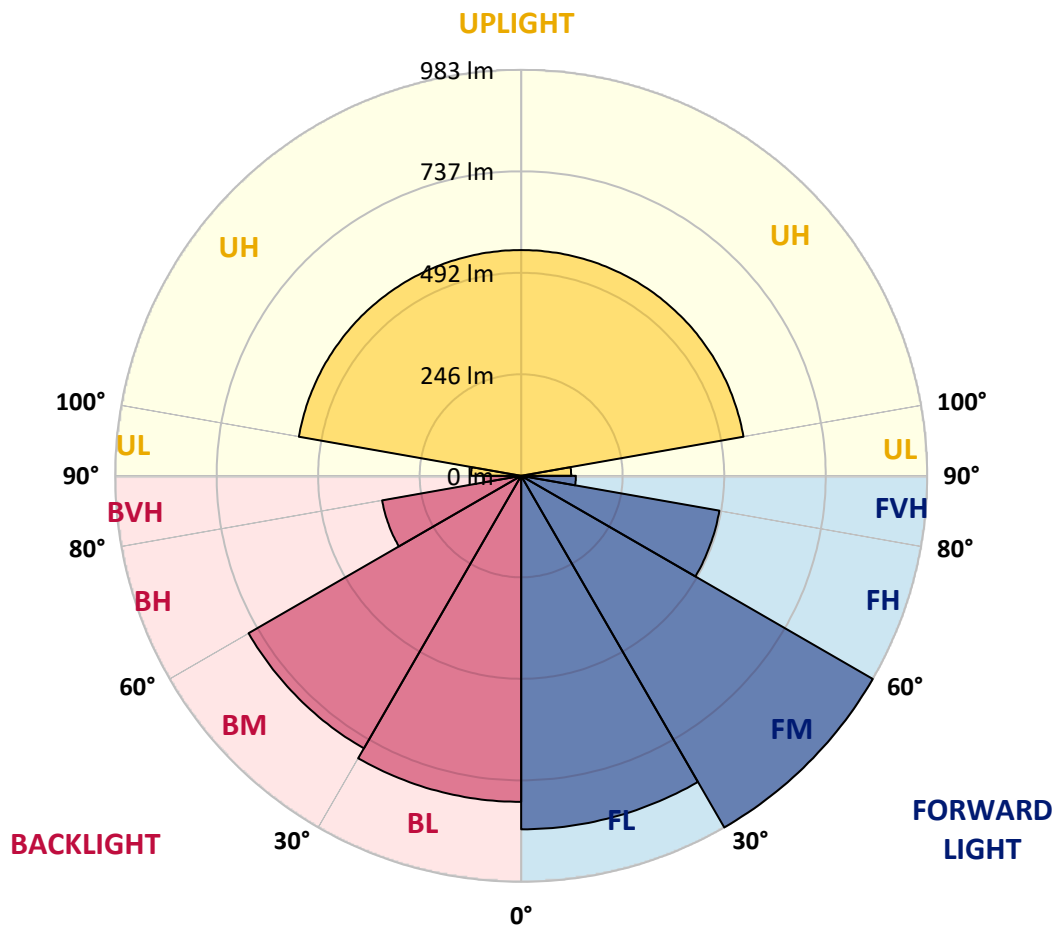
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.1	16.7			
FM	(30°-60°)	983.3	19.2			
FH	(60°-80°)	487.5	9.5			G0/660
FVH	(80°-90°)	132.6	2.6			G2/225
BL	(0°-30°)	789.7	15.4	B2/1000		
BM	(30°-60°)	762.3	14.9	B1/1000		
BH	(60°-80°)	342.0	6.7	B1/500		G1/500
BVH	(80°-90°)	90.7	1.8			G1/100
UL	(90°-100°)	121.2	2.4		U3/500	
UH	(100°-180°)	546.8	10.7		U4/1000	

BUG Rating: B2-U4-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5
2.5°	2453.4	2453.4	2466.4	2477.8	2492.5	2503.9	2520.1	2542.9	2560.8	2568.9	2582.0
5°	2422.5	2425.8	2443.7	2471.3	2499.0	2521.8	2549.4	2577.1	2595.0	2601.5	2614.5
7.5°	2411.1	2416.0	2430.6	2459.9	2505.5	2539.7	2560.8	2570.6	2570.6	2552.7	2554.3
10°	2359.1	2367.2	2385.1	2424.1	2469.7	2494.1	2492.5	2489.2	2472.9	2437.2	2429.0
12.5°	2347.7	2347.7	2375.3	2412.8	2446.9	2456.7	2443.7	2432.3	2398.1	2350.9	2336.3
15°	2347.7	2363.9	2386.7	2411.1	2432.3	2438.8	2437.2	2422.5	2390.0	2329.8	2305.4
17.5°	2271.2	2287.5	2282.6	2305.4	2328.2	2339.5	2336.3	2360.7	2390.0	2328.2	2295.6
20°	2058.1	2063.0	2074.3	2108.5	2253.3	2238.7	2225.7	2228.9	2196.4	2059.7	2020.7
22.5°	1879.1	1906.8	1962.1	1960.5	1978.4	1940.9	1988.1	1897.0	1944.2	1890.5	1856.3
25°	1872.6	1877.5	1796.1	1768.5	1807.5	1750.6	1735.9	1799.4	1809.2	1670.9	1628.6
27.5°	1677.4	1695.3	1698.5	1633.4	1604.2	1594.4	1493.5	1570.0	1558.6	1602.5	1561.9
30°	1394.3	1443.1	1417.1	1378.0	1358.5	1343.9	1324.3	1337.3	1299.9	1168.1	1147.0
32.5°	1239.7	1238.1	1234.8	1236.5	1217.0	1192.5	1174.7	1163.3	1143.7	1117.7	1101.4
35°	1195.8	1192.5	1181.2	1156.8	1143.7	1130.7	1119.3	1111.2	1090.0	1060.8	1049.4
37.5°	1094.9	1096.6	1083.5	1064.0	1052.6	1038.0	1021.7	1008.7	985.9	958.3	951.8
40°	998.9	998.9	989.2	964.8	950.1	933.9	920.8	909.5	891.6	870.4	865.5
42.5°	924.1	924.1	916.0	891.6	878.5	862.3	847.6	837.9	824.9	808.6	803.7
45°	846.0	847.6	841.1	824.9	815.1	802.1	785.8	774.4	759.8	745.1	741.9
47.5°	793.9	792.3	795.6	780.9	772.8	759.8	748.4	738.6	733.7	727.2	717.5
50°	759.8	761.4	764.7	761.4	767.9	754.9	743.5	738.6	724.0	702.8	688.2
52.5°	728.9	735.4	738.6	740.3	743.5	740.3	733.7	719.1	693.1	675.2	660.5
55°	709.3	712.6	714.2	722.4	724.0	717.5	711.0	702.8	683.3	665.4	654.0
57.5°	686.6	691.4	699.6	709.3	711.0	706.1	707.7	702.8	686.6	675.2	655.7
60°	662.2	667.0	663.8	671.9	675.2	676.8	670.3	675.2	660.5	634.5	616.6
62.5°	593.8	597.1	598.7	611.7	615.0	611.7	603.6	593.8	580.8	564.5	554.8
65°	551.5	553.2	554.8	562.9	561.3	559.7	553.2	546.7	540.1	528.8	520.6
67.5°	514.1	517.4	517.4	525.5	522.2	520.6	514.1	509.2	504.4	494.6	486.5
70°	479.9	484.8	481.6	489.7	486.5	483.2	476.7	471.8	466.9	457.2	450.7
72.5°	442.5	447.4	445.8	452.3	449.0	445.8	440.9	436.0	427.9	419.8	413.2
75°	405.1	408.4	406.7	413.2	410.0	406.7	398.6	395.3	388.8	380.7	370.9
77.5°	361.2	366.1	366.1	370.9	364.4	362.8	356.3	354.7	349.8	341.7	333.5
80°	322.1	327.0	327.0	328.6	323.8	322.1	315.6	315.6	309.1	302.6	296.1
82.5°	283.1	288.0	286.3	288.0	283.1	281.5	275.0	276.6	271.7	265.2	260.3
85°	245.7	250.5	247.3	248.9	244.0	240.8	237.5	239.2	235.9	229.4	224.5
87.5°	213.1	213.1	211.5	213.1	208.2	205.0	203.4	205.0	200.1	195.2	192.0
90°	179.0	180.6	179.0	180.6	175.7	174.1	172.5	172.5	169.2	164.3	161.1
92.5°	151.3	151.3	149.7	151.3	148.1	148.1	146.4	146.4	144.8	139.9	138.3
95°	126.9	126.9	126.9	126.9	125.3	125.3	125.3	123.6	123.6	118.8	117.1
97.5°	109.0	109.0	107.4	109.0	107.4	107.4	107.4	105.8	105.8	100.9	100.9
100°	94.4	94.4	92.7	92.7	92.7	92.7	92.7	91.1	89.5	86.2	86.2
102.5°	86.2	86.2	86.2	86.2	84.6	84.6	83.0	81.3	79.7	76.5	76.5
105°	83.0	83.0	83.0	81.3	81.3	81.3	79.7	76.5	74.8	71.6	70.0
107.5°	83.0	83.0	83.0	81.3	81.3	79.7	78.1	74.8	73.2	70.0	68.3
110°	86.2	86.2	84.6	84.6	83.0	81.3	79.7	76.5	73.2	70.0	68.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	91.1	91.1	91.1	89.5	87.9	86.2	83.0	79.7	74.8	73.2	71.6
115°	100.9	100.9	100.9	97.6	96.0	92.7	87.9	84.6	81.3	78.1	76.5
117.5°	115.5	115.5	113.9	110.6	107.4	104.1	97.6	94.4	89.5	86.2	83.0
120°	135.0	135.0	133.4	128.5	125.3	118.8	112.3	105.8	100.9	97.6	94.4
122.5°	159.4	159.4	159.4	151.3	146.4	138.3	130.2	123.6	115.5	112.3	107.4
125°	190.4	188.7	188.7	177.3	174.1	164.3	152.9	144.8	135.0	128.5	123.6
127.5°	226.1	224.5	221.3	209.9	203.4	192.0	179.0	169.2	156.2	148.1	141.5
130°	258.7	258.7	255.4	244.0	235.9	224.5	206.6	195.2	177.3	165.9	159.4
132.5°	288.0	288.0	284.7	275.0	265.2	250.5	232.7	216.4	195.2	182.2	175.7
135°	310.7	309.1	305.9	297.7	288.0	271.7	252.2	234.3	211.5	195.2	188.7
137.5°	318.9	318.9	314.0	307.5	297.7	281.5	263.6	244.0	222.9	205.0	198.5
140°	312.4	312.4	309.1	305.9	296.1	281.5	265.2	245.7	226.1	208.2	198.5
142.5°	297.7	297.7	294.5	294.5	284.7	271.7	257.1	239.2	221.3	201.7	193.6
145°	266.8	268.4	265.2	268.4	260.3	250.5	239.2	222.9	208.2	190.4	180.6
147.5°	229.4	229.4	227.8	234.3	226.1	219.6	211.5	196.9	187.1	169.2	161.1
150°	185.5	187.1	185.5	190.4	183.8	179.0	175.7	165.9	157.8	143.2	136.7
152.5°	143.2	143.2	141.5	146.4	139.9	138.3	136.7	130.2	126.9	113.9	109.0
155°	105.8	105.8	105.8	109.0	102.5	100.9	102.5	97.6	96.0	86.2	83.0
157.5°	74.8	74.8	73.2	76.5	73.2	71.6	73.2	70.0	68.3	61.8	58.6
160°	48.8	48.8	47.2	50.4	47.2	47.2	48.8	45.6	45.6	42.3	39.0
162.5°	26.0	26.0	26.0	29.3	27.7	27.7	29.3	27.7	27.7	26.0	24.4
165°	9.8	9.8	9.8	11.4	11.4	11.4	13.0	11.4	13.0	11.4	11.4
167.5°	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	177°	180°
0°	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5	2588.5
2.5°	2595.0	2625.9	2661.7	2686.1	2718.6	2749.5	2772.3	2801.6	2813.0	2798.3	2798.3
5°	2625.9	2664.9	2708.9	2743.0	2785.3	2834.1	2889.4	2938.3	2964.3	2961.0	2961.0
7.5°	2562.4	2586.8	2622.6	2660.0	2710.5	2765.8	2850.4	2922.0	2974.0	2983.8	2982.2
10°	2430.6	2430.6	2451.8	2479.5	2516.9	2573.8	2660.0	2731.6	2786.9	2800.0	2800.0
12.5°	2321.6	2318.4	2324.9	2342.8	2373.7	2419.3	2482.7	2539.7	2585.2	2595.0	2596.6
15°	2287.5	2254.9	2248.4	2256.6	2272.8	2295.6	2349.3	2386.7	2419.3	2424.1	2420.9
17.5°	2268.0	2207.8	2123.2	2103.6	2110.1	2128.0	2160.6	2170.3	2154.1	2163.8	2152.4
20°	2007.6	2002.8	1967.0	1944.2	1916.5	1854.7	1874.2	1888.9	1910.0	1914.9	1910.0
22.5°	1822.2	1760.3	1666.0	1690.4	1635.1	1641.6	1677.4	1651.3	1640.0	1646.5	1636.7
25°	1628.6	1612.3	1504.9	1452.9	1431.7	1415.4	1435.0	1433.3	1472.4	1488.6	1477.3
27.5°	1526.1	1392.7	1316.2	1247.9	1259.3	1236.5	1239.7	1260.9	1269.0	1273.9	1264.1
30°	1142.1	1169.8	1145.4	1111.2	1086.8	1064.0	1059.1	1036.4	1007.1	1010.3	987.6
32.5°	1086.8	1059.1	1023.3	995.7	972.9	950.1	929.0	903.0	889.9	891.6	878.5
35°	1038.0	1008.7	969.7	938.7	912.7	883.4	855.8	824.9	813.5	816.7	803.7
37.5°	945.3	922.5	886.7	857.4	831.4	795.6	772.8	746.8	735.4	737.0	725.6
40°	860.7	836.2	805.3	776.1	750.0	724.0	702.8	681.7	668.7	671.9	662.2
42.5°	798.8	772.8	743.5	715.9	691.4	665.4	645.9	624.7	615.0	618.2	608.5
45°	733.7	714.2	684.9	657.3	634.5	608.5	590.6	571.1	561.3	562.9	554.8
47.5°	702.8	668.7	637.8	610.1	587.3	561.3	543.4	525.5	520.6	517.4	512.5
50°	675.2	637.8	603.6	575.9	549.9	525.5	506.0	491.3	481.6	481.6	478.3
52.5°	642.6	605.2	567.8	538.5	514.1	491.3	475.1	460.4	455.5	452.3	449.0
55°	631.3	589.0	546.7	514.1	488.1	466.9	452.3	439.3	432.8	431.1	427.9
57.5°	629.6	574.3	523.9	488.1	462.1	440.9	427.9	416.5	410.0	408.4	405.1
60°	598.7	546.7	499.5	466.9	440.9	418.1	405.1	393.7	388.8	382.3	377.4
62.5°	538.5	499.5	462.1	436.0	413.2	390.5	372.6	359.6	354.7	351.4	348.2
65°	507.6	471.8	436.0	408.4	384.0	362.8	348.2	335.1	330.3	327.0	323.8
67.5°	475.1	440.9	405.1	377.4	356.3	335.1	320.5	309.1	304.2	301.0	297.7
70°	439.3	405.1	366.1	343.3	323.8	304.2	291.2	281.5	276.6	275.0	270.1
72.5°	400.2	362.8	330.3	309.1	291.2	273.3	263.6	252.2	248.9	245.7	242.4
75°	359.6	327.0	296.1	276.6	260.3	245.7	235.9	226.1	221.3	219.6	216.4
77.5°	323.8	292.8	263.6	247.3	232.7	219.6	209.9	203.4	198.5	196.9	195.2
80°	288.0	258.7	235.9	219.6	205.0	193.6	187.1	180.6	177.3	175.7	174.1
82.5°	248.9	226.1	206.6	192.0	180.6	170.8	164.3	159.4	157.8	154.6	154.6
85°	216.4	195.2	177.3	167.6	156.2	148.1	143.2	139.9	138.3	136.7	135.0
87.5°	183.8	167.6	152.9	143.2	135.0	128.5	123.6	122.0	120.4	118.8	117.1
90°	154.6	141.5	130.2	122.0	115.5	109.0	105.8	104.1	104.1	102.5	102.5
92.5°	131.8	122.0	112.3	107.4	100.9	96.0	94.4	92.7	91.1	91.1	91.1
95°	113.9	105.8	99.2	94.4	89.5	86.2	83.0	83.0	81.3	81.3	81.3
97.5°	97.6	92.7	86.2	83.0	79.7	76.5	74.8	73.2	73.2	71.6	71.6
100°	83.0	79.7	74.8	73.2	70.0	66.7	65.1	65.1	65.1	63.5	63.5
102.5°	73.2	70.0	66.7	63.5	61.8	58.6	58.6	56.9	56.9	56.9	56.9
105°	68.3	65.1	61.8	58.6	56.9	55.3	53.7	52.1	52.1	52.1	52.1
107.5°	66.7	63.5	60.2	56.9	53.7	52.1	50.4	47.2	48.8	48.8	48.8
110°	66.7	63.5	60.2	56.9	53.7	52.1	50.4	45.6	47.2	47.2	47.2

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CATALOG NUMBER: CRTK-N-50-727-U-T3-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	177°	180°
112.5°	70.0	65.1	61.8	58.6	55.3	53.7	50.4	43.9	45.6	45.6	45.6
115°	74.8	70.0	65.1	61.8	58.6	55.3	52.1	42.3	43.9	43.9	43.9
117.5°	81.3	76.5	71.6	66.7	61.8	58.6	53.7	43.9	43.9	43.9	43.9
120°	92.7	84.6	78.1	73.2	68.3	63.5	56.9	43.9	45.6	45.6	45.6
122.5°	105.8	96.0	87.9	79.7	74.8	68.3	60.2	47.2	47.2	47.2	48.8
125°	120.4	109.0	99.2	89.5	83.0	73.2	63.5	48.8	48.8	50.4	50.4
127.5°	136.7	123.6	110.6	99.2	91.1	78.1	66.7	52.1	50.4	50.4	50.4
130°	152.9	136.7	123.6	109.0	97.6	84.6	70.0	53.7	48.8	50.4	52.1
132.5°	167.6	149.7	135.0	118.8	105.8	89.5	73.2	55.3	50.4	52.1	52.1
135°	180.6	161.1	143.2	125.3	110.6	94.4	74.8	56.9	52.1	52.1	53.7
137.5°	188.7	167.6	148.1	130.2	112.3	96.0	76.5	56.9	52.1	52.1	52.1
140°	190.4	169.2	148.1	128.5	110.6	94.4	74.8	56.9	50.4	52.1	50.4
142.5°	183.8	162.7	141.5	122.0	105.8	89.5	71.6	53.7	47.2	48.8	48.8
145°	170.8	151.3	131.8	112.3	97.6	81.3	65.1	48.8	42.3	43.9	42.3
147.5°	151.3	135.0	115.5	99.2	86.2	71.6	56.9	42.3	35.8	37.4	35.8
150°	128.5	115.5	97.6	83.0	71.6	60.2	47.2	34.2	29.3	29.3	27.7
152.5°	100.9	92.7	79.7	65.1	56.9	47.2	37.4	27.7	21.2	22.8	21.2
155°	78.1	70.0	60.2	50.4	43.9	35.8	27.7	19.5	14.6	16.3	14.6
157.5°	55.3	50.4	43.9	35.8	30.9	26.0	19.5	14.6	9.8	9.8	9.8
160°	37.4	34.2	29.3	24.4	21.2	17.9	13.0	9.8	4.9	4.9	4.9
162.5°	22.8	21.2	17.9	14.6	13.0	11.4	8.1	4.9	3.3	3.3	3.3
165°	11.4	9.8	8.1	6.5	6.5	4.9	4.9	3.3	1.6	1.6	1.6
167.5°	0.0	0.0	0.0	0.0	0.0	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)