

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: P853453

Luminaire Tested: **CRTK-N-50-730-U-T2R-RMARROA5**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-111-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-N-50-730-U-T2R-RMARROA5
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5387 lumens
Efficiency: N/A
Efficacy: 112.9 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

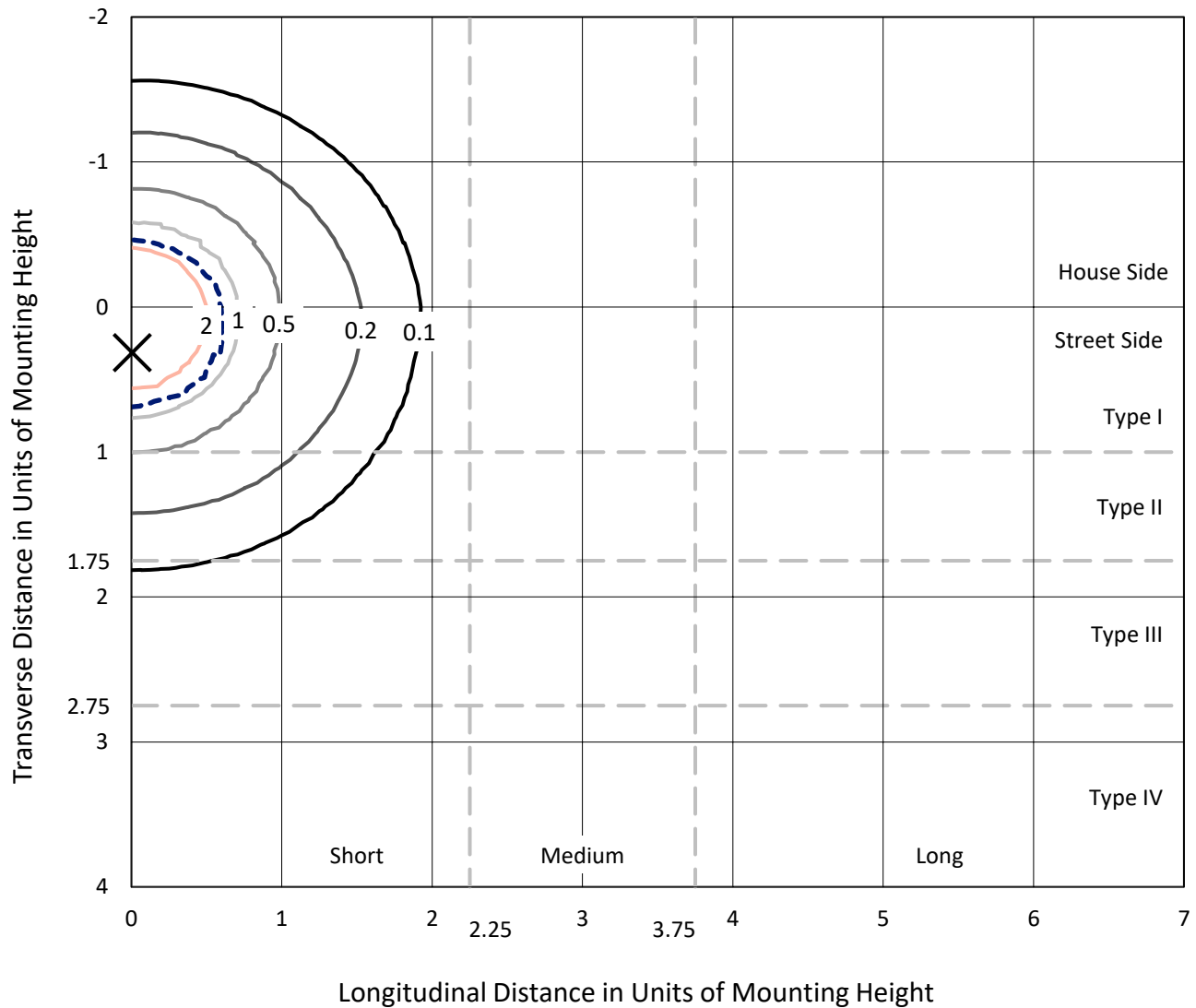


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

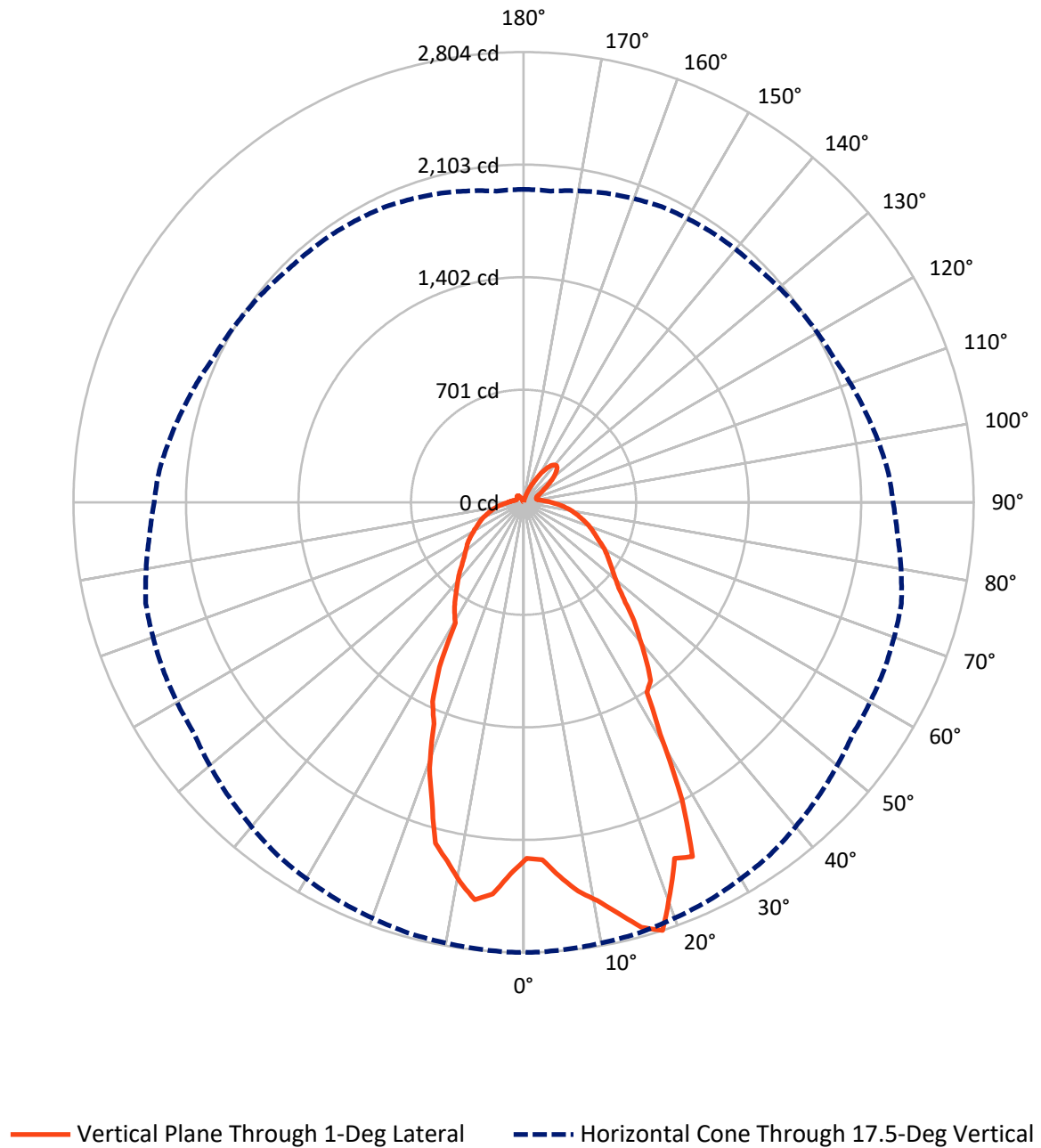


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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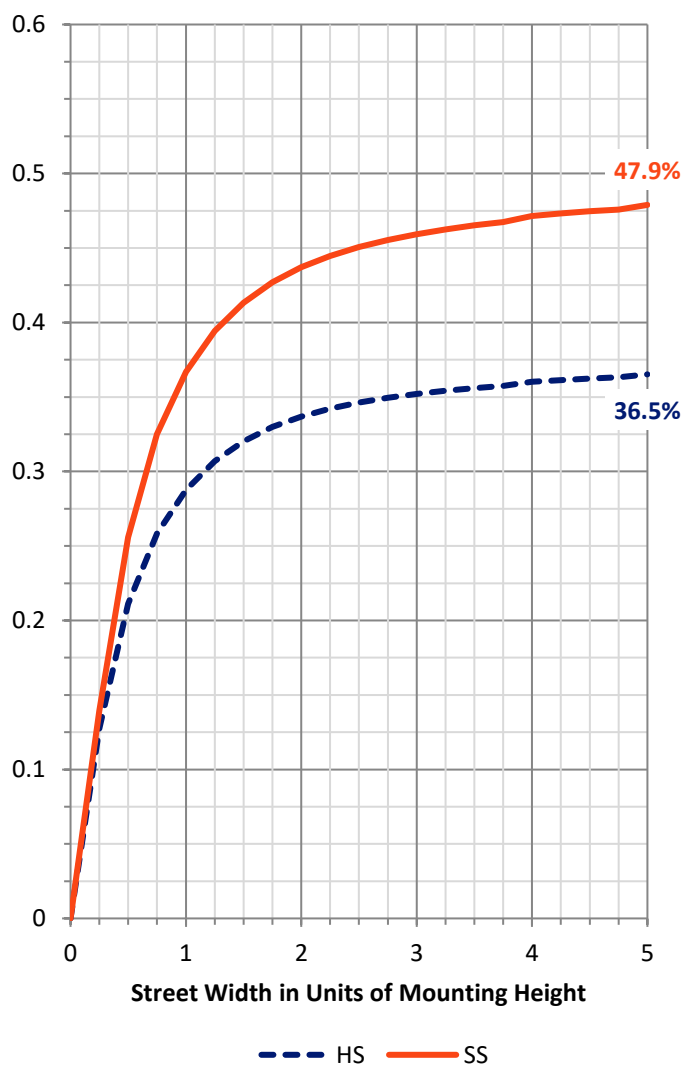
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2025.3	261.5	2286.8
	% Fixture	37.6	4.9	42.5
Street Side	Lumens	2643.8	456.4	3100.2
	% Fixture	49.1	8.5	57.5
Total	Lumens	4669.1	717.9	5387.0
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	4.1
10°-20°	657.6	12.2
20°-30°	823.4	15.3
30°-40°	695.5	12.9
40°-50°	612.2	11.4
50°-60°	569.7	10.6
60°-70°	484.9	9.0
70°-80°	368.5	6.8
80°-90°	234.7	4.4
90°-100°	127.9	2.4
100°-110°	79.0	1.5
110°-120°	80.4	1.5
120°-130°	117.4	2.2
130°-140°	152.7	2.8
140°-150°	115.4	2.1
150°-160°	40.7	0.8
160°-170°	4.4	0.1
170°-180°	0.0	0.0
0°-90°	4669.1	86.7
0°-180°	5387.0	100.0

Coefficient of Utilization



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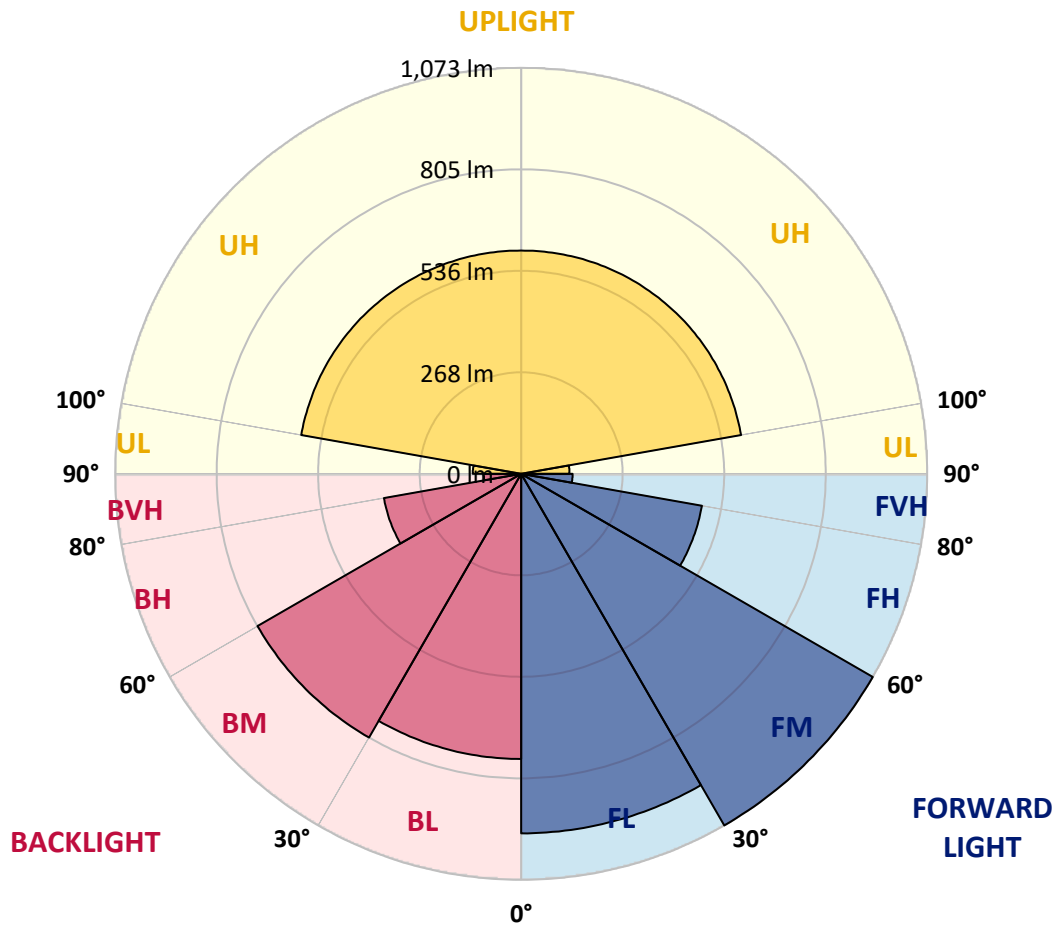
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	950.0	17.6			
FM	(30°-60°)	1072.8	19.9			
FH	(60°-80°)	485.1	9.0			G0/660
FVH	(80°-90°)	135.8	2.5			G2/225
BL	(0°-30°)	753.5	14.0	B2/1000		
BM	(30°-60°)	804.6	14.9	B1/1000		
BH	(60°-80°)	368.3	6.8	B1/500		G1/500
BVH	(80°-90°)	98.9	1.8			G1/100
UL	(90°-100°)	127.9	2.4		U3/500	
UH	(100°-180°)	590.0	11.0		U4/1000	

BUG Rating: B2-U4-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2
2.5°	2227.3	2229.0	2234.1	2242.5	2242.5	2242.5	2242.5	2235.8	2245.9	2242.5	2235.8
5°	2340.3	2340.3	2343.7	2348.7	2343.7	2336.9	2331.9	2320.1	2321.7	2311.6	2301.5
7.5°	2446.5	2446.5	2449.9	2453.3	2436.4	2433.0	2411.1	2379.1	2345.4	2308.3	2269.5
10°	2520.7	2522.4	2529.1	2525.8	2514.0	2492.0	2443.1	2380.8	2318.4	2252.6	2198.7
12.5°	2626.9	2626.9	2625.2	2635.4	2611.8	2574.7	2500.5	2412.8	2343.7	2271.2	2193.6
15°	2741.6	2746.6	2763.5	2766.9	2731.5	2677.5	2593.2	2505.5	2426.3	2348.7	2257.7
17.5°	2802.3	2804.0	2798.9	2777.0	2734.8	2679.2	2594.9	2507.2	2476.9	2436.4	2338.6
20°	2601.6	2603.3	2618.5	2615.1	2606.7	2685.9	2605.0	2493.7	2416.2	2288.0	2111.0
22.5°	2409.4	2409.4	2439.8	2519.0	2471.8	2431.3	2336.9	2286.3	2116.0	2092.4	2006.4
25°	2439.8	2444.8	2436.4	2311.6	2212.2	2252.6	2144.7	2028.4	2045.2	1994.6	1804.1
27.5°	2099.2	2104.2	2127.8	2178.4	2063.8	1996.3	1928.9	1790.6	1809.2	1756.9	1783.9
30°	1687.8	1677.7	1686.1	1701.3	1628.8	1610.2	1595.0	1563.0	1563.0	1392.7	1288.2
32.5°	1404.5	1409.6	1412.9	1407.9	1404.5	1409.6	1380.9	1355.6	1335.4	1298.3	1261.2
35°	1365.7	1364.0	1367.4	1350.6	1323.6	1318.5	1306.7	1303.3	1284.8	1234.2	1207.2
37.5°	1239.3	1237.6	1242.6	1235.9	1207.2	1212.3	1203.9	1192.1	1170.1	1116.2	1096.0
40°	1114.5	1112.8	1114.5	1109.4	1084.2	1079.1	1074.0	1067.3	1048.7	1010.0	996.5
42.5°	1013.3	1010.0	1013.3	1008.3	983.0	979.6	976.2	972.9	961.1	932.4	929.0
45°	890.3	888.6	891.9	893.6	878.5	886.9	890.3	888.6	880.1	859.9	854.8
47.5°	797.5	797.5	799.2	811.0	806.0	817.8	824.5	827.9	832.9	838.0	838.0
50°	738.5	738.5	738.5	753.7	765.5	790.8	802.6	811.0	821.1	809.3	799.2
52.5°	689.6	691.3	693.0	706.5	725.0	750.3	768.9	784.0	789.1	777.3	772.2
55°	649.1	647.5	652.5	664.3	684.6	708.2	726.7	743.6	760.4	763.8	763.8
57.5°	610.4	612.1	615.4	628.9	649.1	674.4	701.4	726.7	750.3	772.2	782.3
60°	573.3	573.3	575.0	588.4	607.0	632.3	660.9	682.9	708.2	701.4	704.8
62.5°	527.7	527.7	531.1	542.9	561.5	580.0	598.6	610.4	627.2	627.2	630.6
65°	494.0	492.3	495.7	505.8	522.7	536.2	554.7	566.5	583.4	588.4	593.5
67.5°	460.3	460.3	462.0	470.4	487.3	500.8	514.3	527.7	542.9	548.0	554.7
70°	430.0	430.0	430.0	438.4	453.6	465.4	477.2	489.0	504.1	504.1	512.6
72.5°	394.5	394.5	401.3	404.7	421.5	431.6	441.8	450.2	463.7	463.7	470.4
75°	364.2	360.8	365.9	370.9	386.1	394.5	401.3	409.7	423.2	421.5	426.6
77.5°	332.2	328.8	333.8	338.9	349.0	357.5	360.8	369.3	377.7	376.0	381.1
80°	298.4	296.8	301.8	303.5	313.6	320.4	323.7	328.8	337.2	333.8	340.6
82.5°	266.4	263.0	268.1	269.8	276.5	283.3	286.6	290.0	296.8	293.4	298.4
85°	232.7	229.3	232.7	236.1	241.1	247.9	249.5	251.2	259.7	254.6	259.7
87.5°	199.0	195.6	200.6	202.3	207.4	212.4	215.8	215.8	222.6	217.5	222.6
90°	170.3	166.9	170.3	172.0	175.4	180.4	182.1	183.8	188.8	183.8	188.8
92.5°	143.3	139.9	143.3	145.0	148.4	153.4	156.8	156.8	161.9	155.1	160.2
95°	121.4	118.0	121.4	123.1	124.8	128.1	131.5	133.2	136.6	131.5	134.9
97.5°	104.5	102.9	104.5	104.5	106.2	109.6	113.0	114.7	116.3	111.3	113.0
100°	92.7	91.0	92.7	92.7	92.7	94.4	96.1	97.8	99.5	94.4	96.1
102.5°	86.0	86.0	86.0	86.0	86.0	87.7	89.4	89.4	87.7	84.3	84.3
105°	82.6	82.6	82.6	82.6	82.6	84.3	84.3	84.3	82.6	80.9	79.2
107.5°	82.6	84.3	82.6	82.6	82.6	84.3	84.3	82.6	80.9	79.2	75.9
110°	86.0	87.7	86.0	86.0	86.0	86.0	86.0	84.3	80.9	79.2	75.9

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	91.0	92.7	92.7	92.7	91.0	91.0	89.4	87.7	84.3	82.6	79.2
115°	99.5	102.9	101.2	101.2	99.5	99.5	97.8	94.4	91.0	89.4	86.0
117.5°	113.0	116.3	114.7	114.7	114.7	111.3	107.9	104.5	101.2	99.5	96.1
120°	131.5	134.9	133.2	133.2	133.2	128.1	126.5	119.7	116.3	114.7	109.6
122.5°	155.1	158.5	156.8	155.1	156.8	150.1	146.7	139.9	134.9	134.9	126.5
125°	182.1	187.2	185.5	183.8	183.8	177.0	173.7	165.2	158.5	156.8	148.4
127.5°	214.1	219.2	217.5	215.8	214.1	207.4	204.0	193.9	185.5	182.1	172.0
130°	246.2	251.2	249.5	247.9	247.9	241.1	236.1	225.9	215.8	207.4	193.9
132.5°	274.8	278.2	276.5	276.5	278.2	273.1	268.1	254.6	241.1	229.3	214.1
135°	296.8	298.4	298.4	298.4	301.8	296.8	290.0	278.2	261.3	246.2	231.0
137.5°	306.9	306.9	306.9	308.6	311.9	308.6	301.8	291.7	274.8	258.0	241.1
140°	303.5	301.8	303.5	305.2	308.6	308.6	301.8	291.7	276.5	258.0	242.8
142.5°	290.0	286.6	288.3	291.7	293.4	298.4	291.7	281.6	268.1	249.5	236.1
145°	264.7	259.7	261.3	264.7	266.4	273.1	268.1	259.7	249.5	232.7	220.9
147.5°	231.0	225.9	227.6	232.7	231.0	237.7	234.4	229.3	222.6	205.7	197.3
150°	192.2	185.5	188.8	192.2	188.8	195.6	192.2	190.5	187.2	173.7	166.9
152.5°	151.7	145.0	148.4	151.7	146.7	151.7	148.4	150.1	148.4	136.6	133.2
155°	116.3	111.3	113.0	114.7	109.6	113.0	111.3	113.0	113.0	102.9	101.2
157.5°	84.3	79.2	80.9	82.6	79.2	80.9	80.9	80.9	82.6	74.2	72.5
160°	55.6	52.3	54.0	54.0	52.3	54.0	54.0	54.0	55.6	48.9	48.9
162.5°	32.0	28.7	30.3	32.0	30.3	32.0	32.0	33.7	33.7	28.7	28.7
165°	13.5	10.1	11.8	11.8	11.8	13.5	13.5	15.2	15.2	11.8	11.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2
2.5°	2235.8	2242.5	2252.6	2264.4	2271.2	2281.3	2289.7	2301.5	2313.3	2318.4	2313.3
5°	2298.1	2304.9	2313.3	2325.1	2331.9	2335.2	2357.2	2392.6	2424.6	2446.5	2446.5
7.5°	2256.0	2250.9	2259.4	2272.9	2284.7	2309.9	2340.3	2387.5	2449.9	2490.4	2495.4
10°	2176.7	2171.7	2163.3	2171.7	2180.1	2203.7	2235.8	2283.0	2348.7	2392.6	2397.6
12.5°	2168.3	2154.8	2141.3	2141.3	2141.3	2153.1	2178.4	2212.2	2250.9	2279.6	2286.3
15°	2229.0	2212.2	2186.9	2175.1	2159.9	2148.1	2149.8	2158.2	2183.5	2197.0	2191.9
17.5°	2301.5	2277.9	2202.0	2131.2	2095.8	2062.1	2050.3	2031.7	1993.0	1945.7	1949.1
20°	2084.0	2070.5	2075.6	2045.2	1999.7	1917.1	1770.4	1723.2	1731.6	1755.2	1753.5
22.5°	1966.0	1928.9	1851.3	1750.2	1758.6	1637.2	1623.7	1613.6	1524.2	1492.2	1487.1
25°	1760.3	1760.3	1762.0	1617.0	1546.1	1466.9	1407.9	1367.4	1338.8	1342.1	1370.8
27.5°	1740.0	1674.3	1536.0	1394.4	1310.1	1296.6	1247.7	1155.0	1160.0	1158.3	1151.6
30°	1264.6	1246.0	1269.6	1234.2	1170.1	1104.4	1047.1	996.5	945.9	871.7	861.6
32.5°	1237.6	1214.0	1161.7	1094.3	1038.6	983.0	927.4	880.1	836.3	814.4	809.3
35°	1193.8	1171.8	1116.2	1048.7	991.4	934.1	875.1	824.5	779.0	763.8	753.7
37.5°	1089.2	1070.7	1023.5	962.8	910.5	858.2	800.9	758.7	720.0	704.8	694.7
40°	989.7	976.2	932.4	880.1	829.6	782.3	735.1	698.0	666.0	650.8	644.1
42.5°	924.0	908.8	865.0	812.7	768.9	720.0	679.5	645.8	617.1	603.6	596.9
45°	851.5	839.7	799.2	753.7	709.8	659.3	623.9	591.8	564.8	553.0	546.3
47.5°	827.9	809.3	758.7	709.8	666.0	618.8	581.7	548.0	524.4	514.3	507.5
50°	792.5	775.6	728.4	681.2	634.0	585.1	546.3	512.6	490.7	480.5	475.5
52.5°	760.4	738.5	694.7	644.1	596.9	549.7	514.3	485.6	463.7	453.6	448.5
55°	755.4	730.1	681.2	625.5	569.9	524.4	487.3	458.6	436.7	428.3	423.2
57.5°	765.5	736.8	671.1	601.9	544.6	497.4	460.3	433.3	411.4	397.9	392.9
60°	706.5	687.9	623.9	571.6	517.6	468.7	431.6	403.0	377.7	369.3	362.5
62.5°	628.9	613.7	566.5	519.3	477.2	435.0	399.6	370.9	347.3	338.9	333.8
65°	590.1	576.6	534.5	489.0	448.5	409.7	372.6	345.6	323.7	315.3	310.2
67.5°	553.0	541.2	502.5	456.9	418.2	377.7	347.3	320.4	300.1	291.7	288.3
70°	510.9	500.8	462.0	419.8	381.1	347.3	320.4	295.1	276.5	269.8	264.7
72.5°	468.7	456.9	421.5	377.7	345.6	313.6	290.0	268.1	249.5	242.8	239.4
75°	426.6	414.8	376.0	340.6	310.2	283.3	261.3	241.1	225.9	219.2	215.8
77.5°	381.1	369.3	337.2	305.2	278.2	254.6	234.4	217.5	202.3	197.3	193.9
80°	338.9	327.1	300.1	269.8	246.2	225.9	209.1	192.2	180.4	175.4	173.7
82.5°	298.4	288.3	263.0	237.7	215.8	197.3	183.8	170.3	160.2	155.1	153.4
85°	258.0	249.5	227.6	205.7	187.2	172.0	156.8	146.7	138.3	134.9	131.5
87.5°	220.9	212.4	193.9	175.4	160.2	146.7	133.2	124.8	118.0	116.3	111.3
90°	187.2	180.4	165.2	150.1	136.6	124.8	114.7	107.9	101.2	99.5	97.8
92.5°	160.2	153.4	141.6	129.8	119.7	107.9	101.2	94.4	91.0	89.4	87.7
95°	134.9	131.5	121.4	111.3	104.5	96.1	89.4	84.3	80.9	80.9	79.2
97.5°	114.7	111.3	102.9	97.8	91.0	84.3	79.2	75.9	74.2	74.2	70.8
100°	96.1	94.4	87.7	82.6	79.2	74.2	69.1	67.4	65.8	65.8	64.1
102.5°	84.3	82.6	77.6	72.5	69.1	65.8	62.4	60.7	59.0	59.0	57.3
105°	77.6	75.9	70.8	67.4	64.1	60.7	57.3	55.6	54.0	54.0	52.3
107.5°	74.2	72.5	69.1	65.8	60.7	57.3	55.6	54.0	48.9	50.6	50.6
110°	74.2	72.5	69.1	65.8	60.7	57.3	55.6	52.3	45.5	48.9	47.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	77.6	75.9	72.5	67.4	62.4	59.0	55.6	52.3	43.8	47.2	47.2
115°	84.3	80.9	77.6	72.5	67.4	62.4	59.0	54.0	43.8	45.5	45.5
117.5°	92.7	89.4	86.0	79.2	72.5	67.4	62.4	55.6	45.5	45.5	45.5
120°	106.2	101.2	96.1	87.7	79.2	74.2	67.4	59.0	47.2	47.2	47.2
122.5°	121.4	116.3	109.6	97.8	87.7	80.9	72.5	64.1	48.9	48.9	48.9
125°	139.9	134.9	126.5	111.3	97.8	91.0	79.2	67.4	52.3	50.6	50.6
127.5°	163.6	155.1	143.3	124.8	109.6	101.2	86.0	70.8	54.0	50.6	52.3
130°	185.5	175.4	160.2	139.9	123.1	109.6	94.4	75.9	57.3	50.6	54.0
132.5°	204.0	193.9	177.0	155.1	134.9	119.7	101.2	79.2	59.0	52.3	54.0
135°	220.9	210.8	190.5	166.9	145.0	126.5	106.2	82.6	60.7	54.0	55.6
137.5°	232.7	222.6	199.0	175.4	151.7	129.8	107.9	84.3	60.7	54.0	54.0
140°	234.4	225.9	200.6	177.0	151.7	129.8	106.2	84.3	60.7	54.0	54.0
142.5°	229.3	219.2	195.6	172.0	148.4	124.8	102.9	79.2	57.3	50.6	50.6
145°	215.8	207.4	183.8	161.9	138.3	116.3	94.4	72.5	52.3	45.5	45.5
147.5°	192.2	185.5	163.6	146.7	123.1	102.9	82.6	64.1	45.5	38.8	38.8
150°	165.2	160.2	139.9	124.8	106.2	86.0	69.1	54.0	37.1	32.0	30.3
152.5°	134.9	129.8	113.0	101.2	84.3	69.1	55.6	42.2	30.3	25.3	23.6
155°	101.2	99.5	84.3	77.6	64.1	52.3	42.2	32.0	21.9	18.5	16.9
157.5°	74.2	70.8	60.7	55.6	47.2	38.8	30.3	23.6	15.2	11.8	10.1
160°	48.9	48.9	40.5	37.1	32.0	25.3	20.2	15.2	10.1	6.7	5.1
162.5°	28.7	28.7	23.6	21.9	20.2	15.2	11.8	10.1	6.7	3.4	3.4
165°	13.5	13.5	10.1	10.1	8.4	8.4	6.7	5.1	3.4	3.4	1.7
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)