

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: METALUX

Report Number: P571648

Luminaire Tested: **8ST2L8040**

Issue Date: 3/18/2022

Test Information

Test Method: LM-79-08
Report Number: P571648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P579285)
Test Lab: INNOVATION CENTER
Issue Date: 3/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ST2L8040
Description: 8 FOOT ST2 STIPLIGHT WITH 4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

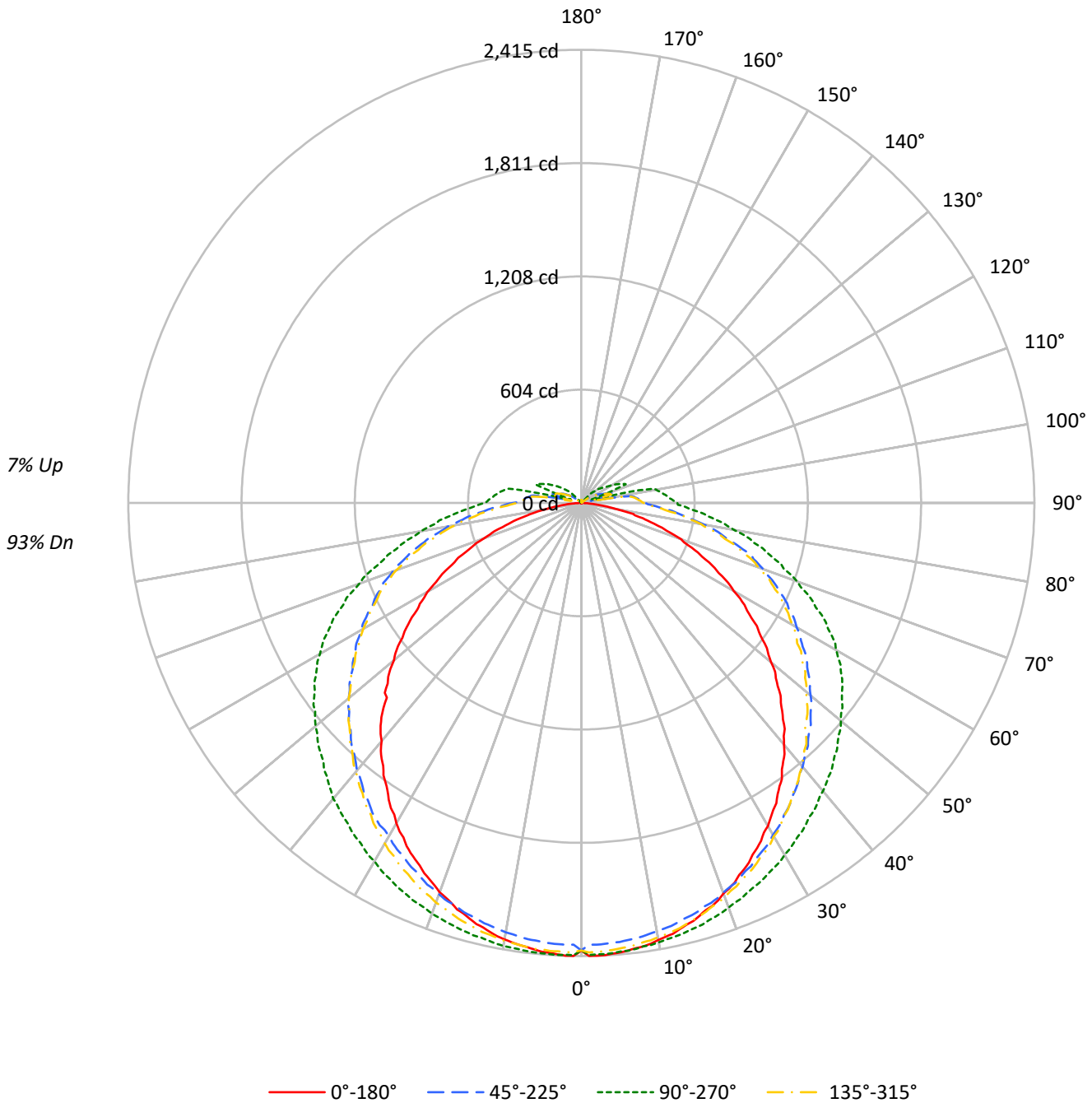
Lumens per Lamp: N/A
Luminaire Lumens: 8741.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.11')
CIE Type: Direct

Input Watts (W): 76.7
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: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	105	99	94	90	102	96	92	88	91	87	84	86	83	80	81	79	76	74
2	95	85	78	71	91	83	76	70	78	72	67	74	69	65	70	66	62	60
3	86	74	65	58	83	72	64	57	68	61	55	64	58	53	61	56	52	49
4	78	65	56	49	75	63	55	48	60	52	46	57	50	45	54	48	44	41
5	72	58	48	41	69	56	48	41	53	46	40	51	44	39	48	42	38	35
6	66	52	43	36	64	51	42	35	48	40	35	46	39	34	44	38	33	31
7	61	47	38	31	59	46	37	31	44	36	30	42	35	30	40	34	29	27
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	24
9	53	39	31	25	51	38	30	25	37	29	24	35	28	24	34	28	23	21
10	50	36	28	22	48	35	28	22	34	27	22	32	26	21	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11001	11001	11001	11001
5°	11119	10759	11105	10804
10°	11053	10451	11034	10538
15°	10977	10183	10919	10282
20°	10822	9924	10788	10074
25°	10697	9706	10602	9874
30°	10512	9499	10417	9668
35°	10280	9333	10148	9541
40°	10003	9200	9868	9446
45°	9682	9078	9440	9254
50°	9328	8980	9208	9203
55°	9009	8928	8892	9121
60°	8450	8803	8540	9036
65°	7974	8585	7909	8862
70°	7373	8173	7194	8411
75°	6199	7655	6350	7973
80°	4754	7082	4776	7421
85°	2865	6603	3007	6863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	2.6
10°-20°	649.7	7.4
20°-30°	995.4	11.4
30°-40°	1226.8	14.0
40°-50°	1324.5	15.2
50°-60°	1290.4	14.8
60°-70°	1129.9	12.9
70°-80°	840.0	9.6
80°-90°	487.2	5.6
90°-100°	279.7	3.2
100°-110°	102.9	1.2
110°-120°	106.1	1.2
120°-130°	56.1	0.6
130°-140°	15.2	0.2
140°-150°	3.2	0.0
150°-160°	3.6	0.0
160°-170°	3.2	0.0
170°-180°	1.4	0.0
0°-30°	1870.9	21.4
0°-40°	3097.7	35.4
0°-60°	5712.6	65.4
0°-90°	8169.7	93.5
90°-120°	488.7	5.6
90°-150°	563.1	6.4
90°-180°	571.0	6.5
0°-180°	8741.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2385	2385	2385	2385	2385	
5°	2404	2399	2401	2409	2404	228
15°	2307	2344	2295	2367	2307	650
25°	2115	2237	2096	2276	2115	973
35°	1843	2088	1819	2135	1843	1153
45°	1504	1908	1467	1945	1504	1162
55°	1142	1699	1127	1736	1142	1015
65°	752	1413	746	1459	752	741
75°	365	1025	374	1067	365	395
85°	62	654	66	680	62	77
90°	4	511	6	513	4	4
95°	2	455	3	465	2	2
105°	2	69	2	69	2	2
115°	1	242	3	238	1	1
125°	1	146	2	154	1	1
135°	2	70	3	62	2	2
145°	5	5	5	4	5	3
155°	8	8	8	8	8	4
165°	13	11	11	11	13	3
175°	16	16	14	15	16	1
180°	16	16	16	16	16	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2384.8	2384.8	2384.8	2384.8	2384.8	2384.8	2384.8	2384.8	2384.8	2384.8	2384.8
1°	2414.8	2300.6	2354.2	2420.9	2408.9	2368.2	2396.0	2393.9	2414.8	2300.6	2354.2
2°	2413.9	2299.7	2355.3	2419.7	2406.8	2365.2	2393.0	2393.0	2413.9	2299.7	2356.3
3°	2412.9	2298.7	2353.2	2418.8	2408.0	2362.2	2392.0	2391.1	2408.9	2297.8	2354.2
4°	2408.0	2295.7	2348.3	2416.9	2404.9	2361.2	2388.0	2387.1	2402.8	2293.8	2353.2
5°	2404.0	2291.7	2348.3	2413.9	2399.0	2358.2	2382.1	2381.2	2400.9	2289.8	2349.2
6°	2397.9	2288.8	2342.4	2408.9	2399.0	2351.3	2379.1	2378.1	2393.0	2287.7	2344.3
7°	2390.1	2281.8	2338.4	2404.9	2393.9	2349.2	2373.2	2371.1	2384.0	2279.9	2342.4
8°	2386.1	2275.9	2333.5	2400.9	2386.1	2342.4	2364.3	2360.3	2379.1	2271.0	2335.4
9°	2378.1	2268.9	2324.5	2393.9	2385.0	2335.4	2360.3	2353.2	2370.1	2265.8	2327.4
10°	2365.2	2259.0	2318.5	2390.1	2377.2	2331.4	2350.4	2347.3	2361.2	2255.9	2323.4
11°	2355.3	2252.9	2310.7	2384.0	2370.1	2324.5	2343.4	2334.4	2352.3	2245.1	2314.5
12°	2347.3	2240.2	2304.6	2375.1	2365.2	2315.6	2334.4	2319.6	2337.5	2230.1	2305.5
13°	2331.4	2226.1	2293.8	2370.1	2360.3	2308.6	2326.4	2313.5	2322.5	2223.3	2298.7
14°	2316.6	2219.3	2280.8	2359.3	2350.4	2300.6	2312.6	2297.8	2312.6	2216.2	2286.7
15°	2306.7	2204.3	2274.8	2347.3	2344.3	2290.7	2300.6	2280.8	2294.7	2201.4	2277.8
16°	2287.7	2195.3	2263.0	2340.3	2338.4	2280.8	2290.7	2271.0	2276.8	2184.5	2268.9
17°	2268.9	2182.4	2248.0	2328.5	2325.5	2272.9	2276.8	2255.0	2265.8	2173.5	2254.0
18°	2258.0	2165.7	2240.2	2314.5	2317.5	2259.9	2260.9	2234.1	2242.1	2160.6	2244.0
19°	2240.2	2149.7	2228.2	2311.6	2307.6	2251.0	2251.0	2222.1	2223.3	2140.8	2234.1
20°	2215.3	2137.8	2210.3	2296.6	2294.7	2239.0	2234.1	2206.4	2208.3	2123.9	2219.3
21°	2200.5	2118.0	2196.5	2284.8	2282.7	2226.1	2216.2	2180.5	2183.5	2111.9	2202.4
22°	2181.5	2099.2	2185.4	2275.9	2274.8	2216.2	2204.3	2165.7	2162.6	2094.0	2193.4
23°	2153.7	2086.3	2167.6	2259.0	2259.0	2201.4	2184.5	2146.7	2143.8	2070.3	2174.6
24°	2135.9	2062.3	2148.8	2245.1	2247.0	2188.5	2167.6	2122.9	2115.9	2057.4	2154.7
25°	2114.9	2041.4	2136.8	2235.0	2237.1	2176.5	2153.7	2109.1	2096.1	2035.5	2142.7
26°	2084.2	2027.5	2115.9	2215.3	2224.2	2159.6	2134.9	2080.2	2075.2	2009.7	2123.9
27°	2064.4	2001.7	2098.0	2199.3	2208.3	2152.8	2111.9	2056.4	2052.4	1994.9	2104.1
28°	2039.5	1978.9	2084.2	2188.5	2197.4	2138.9	2098.0	2038.6	2019.6	1973.0	2092.1
29°	2007.8	1963.1	2067.3	2167.6	2185.4	2126.0	2078.3	2008.7	2000.7	1945.3	2073.3
30°	1988.8	1940.1	2043.5	2150.7	2165.7	2105.1	2051.5	1983.8	1970.9	1927.4	2050.3
31°	1958.2	1912.4	2027.5	2128.8	2153.7	2094.0	2037.6	1964.1	1937.3	1904.4	2034.6
32°	1930.2	1893.6	2009.7	2115.9	2136.8	2076.2	2011.8	1931.2	1916.4	1875.7	2026.6
33°	1908.4	1875.7	1983.8	2100.1	2118.9	2056.4	1985.9	1906.5	1885.6	1863.7	2007.8
34°	1870.8	1838.8	1968.1	2083.2	2108.1	2044.5	1970.0	1883.7	1847.8	1831.1	1992.8
35°	1842.8	1819.1	1946.2	2065.4	2088.2	2025.6	1945.3	1848.9	1819.1	1805.2	1967.1
36°	1818.1	1793.2	1920.4	2047.5	2068.4	2003.8	1915.4	1821.0	1794.2	1786.4	1944.1
37°	1777.3	1759.4	1903.5	2032.5	2057.4	1991.8	1899.5	1791.3	1754.5	1753.5	1928.3
38°	1747.6	1739.7	1879.7	2013.7	2039.5	1974.0	1876.7	1769.5	1729.8	1726.7	1899.5
39°	1721.8	1710.8	1851.8	1989.9	2016.7	1956.1	1850.8	1731.7	1699.0	1706.8	1877.6
40°	1680.0	1675.0	1835.0	1977.0	2003.8	1943.2	1833.0	1701.8	1657.2	1671.1	1860.7
41°	1645.4	1655.3	1810.2	1954.2	1986.9	1919.4	1802.2	1678.1	1631.3	1642.4	1832.0
42°	1620.5	1626.4	1789.3	1929.3	1967.1	1899.5	1775.4	1638.4	1598.7	1621.5	1808.1
43°	1576.8	1603.6	1770.4	1914.5	1954.2	1884.6	1758.5	1608.5	1562.9	1585.7	1790.2
44°	1540.1	1574.9	1740.6	1892.6	1930.2	1857.8	1725.8	1583.8	1518.3	1558.0	1767.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1504.2	1537.1	1719.7	1865.8	1908.4	1836.0	1687.0	1537.1	1466.6	1519.2	1737.6
46°	1476.5	1515.2	1699.9	1849.9	1894.5	1810.2	1668.2	1514.3	1456.7	1495.3	1711.9
47°	1430.9	1482.6	1670.1	1828.0	1869.6	1794.2	1648.3	1489.4	1412.1	1466.6	1695.0
48°	1395.1	1445.7	1646.4	1801.2	1846.8	1772.3	1622.4	1448.7	1385.1	1443.8	1664.2
49°	1368.4	1422.9	1625.5	1779.4	1832.0	1756.6	1588.8	1415.9	1349.3	1405.0	1646.4
50°	1320.7	1390.2	1594.7	1763.4	1805.2	1728.6	1567.9	1392.1	1303.7	1374.2	1619.6
51°	1283.8	1351.4	1566.9	1738.7	1782.4	1706.8	1543.0	1358.3	1276.0	1344.4	1588.8
52°	1256.0	1320.7	1547.9	1710.8	1766.4	1688.0	1514.3	1317.6	1241.2	1319.7	1567.9
53°	1208.4	1294.8	1516.2	1692.9	1738.7	1668.2	1494.3	1295.8	1193.5	1280.9	1541.1
54°	1169.8	1256.0	1487.5	1668.2	1717.8	1639.3	1460.7	1261.0	1164.6	1258.1	1507.3
55°	1141.8	1231.3	1468.5	1638.4	1699.0	1620.5	1432.8	1221.3	1127.0	1225.3	1487.5
56°	1093.2	1200.6	1441.7	1621.5	1677.1	1598.7	1413.0	1196.6	1089.2	1186.5	1462.6
57°	1053.5	1167.7	1406.9	1595.6	1649.2	1569.8	1372.3	1164.6	1041.5	1137.9	1434.9
58°	1024.8	1128.0	1380.1	1564.8	1629.4	1545.1	1351.4	1124.0	1014.7	1130.1	1414.9
59°	987.0	1104.2	1360.4	1545.1	1596.6	1527.2	1331.5	1100.2	977.1	1091.3	1382.2
60°	937.4	1070.4	1324.6	1519.2	1567.9	1494.3	1297.9	1068.5	947.3	1060.5	1353.3
61°	908.5	1046.6	1302.8	1497.4	1547.9	1469.6	1271.1	1027.6	900.5	1036.6	1333.6
62°	869.7	1008.8	1276.0	1459.6	1515.2	1447.8	1249.2	1003.9	861.9	998.0	1299.8
63°	821.1	976.1	1241.2	1429.9	1475.5	1410.0	1214.4	974.1	833.1	965.1	1272.0
64°	791.4	952.2	1220.3	1388.1	1449.7	1380.1	1190.5	934.3	784.4	942.3	1236.3
65°	751.7	913.4	1190.5	1363.2	1413.0	1355.4	1168.6	912.5	745.6	909.4	1216.3
66°	704.0	881.7	1152.9	1329.6	1368.4	1321.6	1131.0	878.7	717.9	870.9	1189.5
67°	674.2	858.0	1130.1	1291.8	1340.4	1278.9	1101.2	848.1	668.3	848.1	1152.9
68°	635.4	819.2	1097.2	1264.0	1302.8	1252.1	1079.3	808.2	630.5	817.3	1139.0
69°	586.8	789.4	1057.5	1218.4	1254.1	1215.4	1037.7	784.4	600.7	777.4	1101.2
70°	567.0	765.6	1032.6	1178.7	1224.3	1168.6	1002.9	753.6	553.2	754.6	1068.5
71°	518.4	727.8	998.0	1149.8	1185.5	1139.9	979.0	729.9	515.3	724.9	1044.6
72°	479.6	698.0	965.1	1100.2	1135.0	1100.2	943.3	692.1	486.5	687.1	1002.9
73°	450.7	676.3	947.3	1059.6	1114.1	1048.5	900.5	662.2	439.0	665.3	969.1
74°	403.2	645.5	892.7	1029.7	1064.5	1018.7	872.8	640.4	402.1	635.4	943.3
75°	365.4	609.6	854.9	979.0	1024.8	979.9	835.1	605.6	374.3	599.7	900.5
76°	338.6	579.9	805.3	940.2	995.9	930.3	788.4	576.0	339.6	569.9	862.9
77°	292.8	556.0	776.4	910.6	946.3	901.7	759.5	553.2	294.0	548.0	835.1
78°	283.9	515.3	746.8	858.9	917.4	861.9	721.9	515.3	268.1	519.3	788.4
79°	233.3	482.7	709.9	820.1	875.8	824.1	674.2	482.7	235.2	495.4	749.6
80°	192.7	456.8	664.3	792.4	828.1	795.4	647.4	449.8	193.6	455.7	721.9
81°	161.9	413.1	623.7	753.6	790.3	748.7	608.6	424.9	170.8	424.9	675.1
82°	139.1	379.3	575.0	705.9	763.5	712.0	560.9	382.3	141.9	400.2	639.4
83°	111.2	353.4	547.1	678.2	717.0	686.2	542.1	356.5	107.2	358.4	610.7
84°	79.4	310.9	511.4	651.4	680.1	642.5	496.5	322.7	88.4	325.7	573.9
85°	62.5	286.9	485.5	613.6	654.4	604.7	452.8	282.9	65.6	299.9	526.2
86°	38.8	255.2	441.8	569.9	610.7	578.8	428.9	250.3	41.6	260.1	498.4
87°	23.8	217.4	408.2	535.1	576.0	534.2	394.1	225.4	32.7	230.3	462.7
88°	16.0	196.7	383.3	494.4	551.1	503.4	362.4	189.6	16.9	207.5	421.1
89°	7.0	170.8	354.4	474.7	515.3	479.6	344.5	164.7	8.9	173.7	397.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	4.0	160.9	340.5	464.6	511.4	453.8	331.6	154.9	5.9	153.0	364.5
91°	3.0	153.9	332.7	456.8	496.5	446.7	322.7	149.0	4.9	146.9	330.6
92°	4.0	144.0	325.7	444.8	485.5	437.8	315.8	141.9	3.0	136.1	321.7
93°	4.0	137.0	311.8	435.0	472.6	431.9	305.7	137.0	4.0	131.1	311.8
94°	3.0	132.1	304.8	423.9	464.6	419.9	296.8	128.1	4.0	125.0	304.8
95°	1.9	90.5	296.8	417.1	454.7	413.1	291.9	84.4	3.0	102.2	299.9
96°	3.0	53.6	286.9	407.0	442.9	404.2	281.0	63.5	3.0	62.5	287.9
97°	3.0	47.7	282.0	395.2	435.0	393.2	272.1	52.6	3.0	55.7	278.0
98°	3.0	50.5	266.0	388.2	426.0	386.3	257.1	60.6	3.0	56.6	273.1
99°	1.9	72.4	185.7	376.2	413.1	377.4	178.8	72.4	3.0	70.5	252.2
100°	1.9	71.4	118.2	365.4	405.1	364.5	85.3	69.5	1.9	68.6	196.7
101°	1.9	67.5	58.5	330.6	395.2	352.5	68.6	65.6	1.9	64.6	142.9
102°	1.9	63.5	55.7	227.5	340.5	291.9	61.6	61.6	3.0	61.6	78.5
103°	1.9	58.5	50.5	128.1	278.0	184.7	57.6	57.6	3.0	58.5	71.4
104°	1.9	55.7	53.6	58.5	159.8	89.3	61.6	53.6	3.0	55.7	68.6
105°	1.9	50.5	97.3	48.6	68.6	60.6	113.3	51.7	1.9	50.5	80.4
106°	1.9	48.6	141.9	46.7	60.6	58.5	165.9	47.7	1.9	47.7	121.2
107°	1.0	44.7	172.7	44.7	57.6	54.5	162.8	43.7	1.9	42.8	155.8
108°	1.9	39.7	164.7	54.5	56.6	51.7	157.9	41.6	1.9	39.7	160.9
109°	1.0	36.7	159.8	92.4	55.7	71.4	150.9	37.8	1.9	35.7	153.9
110°	1.9	33.8	149.9	157.0	92.4	141.0	145.0	32.7	1.9	30.8	149.0
111°	1.9	26.8	140.0	232.4	153.9	190.6	133.0	29.8	1.9	20.0	140.0
112°	1.9	18.8	133.0	230.3	205.6	227.5	124.1	17.9	1.0	12.9	135.1
113°	1.9	8.9	123.1	221.4	257.1	222.3	118.2	8.0	1.9	8.0	130.2
114°	1.9	5.9	116.1	213.4	248.2	211.5	110.2	7.0	1.9	7.0	125.0
115°	1.0	5.9	111.2	206.6	242.3	202.6	104.3	5.9	3.0	5.9	117.2
116°	1.0	4.9	106.2	194.6	232.4	190.6	102.2	4.9	1.9	4.9	112.1
117°	1.0	3.0	99.4	183.8	219.5	182.6	97.3	4.0	1.9	3.0	107.2
118°	1.9	3.0	96.3	174.8	212.4	172.7	92.4	3.0	1.9	3.0	98.2
119°	1.0	3.0	90.5	162.8	199.5	164.7	87.4	3.0	1.9	3.0	95.4
120°	1.0	3.0	82.5	155.8	186.6	155.8	83.4	3.0	1.9	3.0	87.4
121°	1.9	3.0	77.5	145.9	177.7	145.0	76.4	3.0	1.9	3.0	81.3
122°	1.9	1.9	73.5	141.0	167.8	139.1	71.4	3.0	1.9	3.0	76.4
123°	1.0	1.9	65.6	134.0	157.9	134.0	66.5	1.0	1.9	3.0	69.5
124°	1.0	1.9	60.6	126.2	153.0	126.2	58.5	3.0	3.0	3.0	62.5
125°	1.0	1.9	56.6	121.2	145.9	120.1	53.6	1.9	1.9	1.9	59.7
126°	1.9	1.0	41.6	114.2	136.1	115.2	40.7	3.0	1.9	1.9	45.6
127°	1.9	3.0	24.9	107.2	132.1	108.3	20.0	1.9	1.9	1.9	29.8
128°	1.0	1.9	13.9	102.2	123.1	101.3	13.9	1.9	1.9	1.9	18.8
129°	1.9	1.9	8.0	93.3	119.1	97.3	8.9	1.9	1.9	3.0	9.9
130°	1.9	1.9	7.0	85.3	110.2	89.3	7.0	1.9	1.9	3.0	9.9
131°	1.9	3.0	7.0	80.4	102.2	81.3	7.0	3.0	3.0	1.9	8.0
132°	1.9	1.9	4.9	71.4	91.4	76.4	5.9	3.0	3.0	3.0	5.9
133°	1.9	1.9	4.0	64.6	89.3	69.5	4.9	4.0	3.0	3.0	4.9
134°	1.9	3.0	3.0	47.7	79.4	50.5	4.0	1.9	1.9	3.0	4.9



TEST NUMBER: P571648
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.9	1.9	3.0	36.7	69.5	36.7	3.0	3.0	3.0	3.0	4.0
136°	3.0	1.9	4.0	12.9	55.7	17.9	3.0	3.0	1.9	3.0	4.0
137°	1.9	1.9	3.0	8.9	27.7	10.8	3.0	3.0	3.0	3.0	4.0
138°	3.0	3.0	3.0	8.0	14.8	9.9	3.0	3.0	3.0	3.0	4.0
139°	3.0	3.0	3.0	8.0	10.8	8.0	4.0	3.0	3.0	4.0	3.0
140°	3.0	3.0	4.0	5.9	8.9	7.0	4.9	4.0	4.0	3.0	4.0
141°	3.0	4.0	4.0	4.9	8.0	5.9	4.0	4.0	4.0	4.9	4.9
142°	4.0	4.0	4.0	4.9	8.0	5.9	4.0	4.0	3.0	4.9	4.9
143°	4.0	4.0	4.0	4.0	5.9	4.9	4.0	4.0	4.0	4.0	4.9
144°	4.0	4.9	4.9	4.9	4.9	4.9	4.0	4.0	4.9	4.9	4.9
145°	4.9	4.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
146°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.9	5.9	4.9
147°	4.9	4.9	4.9	4.9	5.9	4.9	5.9	4.9	4.9	4.9	4.9
148°	5.9	5.9	5.9	5.9	5.9	4.9	4.9	4.9	5.9	4.9	4.9
149°	5.9	5.9	7.0	7.0	7.0	5.9	4.9	4.9	5.9	5.9	5.9
150°	7.0	7.0	5.9	5.9	5.9	5.9	5.9	7.0	5.9	5.9	5.9
151°	7.0	7.0	5.9	7.0	7.0	5.9	7.0	7.0	7.0	5.9	5.9
152°	5.9	7.0	7.0	7.0	7.0	5.9	7.0	7.0	7.0	7.0	7.0
153°	8.0	8.0	7.0	7.0	8.0	7.0	7.0	5.9	7.0	7.0	7.0
154°	8.0	8.0	8.0	7.0	8.0	7.0	5.9	7.0	7.0	7.0	8.0
155°	8.0	8.9	8.9	7.0	8.0	7.0	7.0	8.0	8.0	8.0	7.0
156°	8.0	8.0	8.9	8.9	8.0	8.0	7.0	8.0	8.0	8.0	7.0
157°	8.9	8.9	8.9	8.9	8.9	7.0	8.0	8.9	8.0	8.0	8.0
158°	8.9	9.9	8.9	8.9	9.9	8.0	8.9	8.0	8.9	8.9	8.0
159°	9.9	9.9	8.9	9.9	9.9	8.9	8.9	8.9	8.9	8.9	8.9
160°	9.9	9.9	10.8	8.9	9.9	8.0	8.9	8.9	9.9	8.9	8.9
161°	9.9	10.8	9.9	10.8	9.9	8.9	9.9	8.9	9.9	9.9	8.9
162°	10.8	10.8	10.8	10.8	10.8	8.9	9.9	8.9	9.9	8.9	8.9
163°	10.8	10.8	12.0	10.8	10.8	9.9	9.9	10.8	9.9	9.9	9.9
164°	12.0	12.0	12.9	12.0	12.0	10.8	10.8	9.9	10.8	10.8	8.9
165°	12.9	12.0	12.9	12.9	10.8	9.9	10.8	10.8	10.8	10.8	10.8
166°	12.0	12.9	12.9	12.9	12.0	10.8	10.8	12.0	10.8	10.8	9.9
167°	12.9	12.9	13.9	12.9	12.9	10.8	12.9	12.0	10.8	12.0	12.0
168°	12.9	12.9	13.9	13.9	12.9	10.8	12.9	12.0	12.0	12.0	12.0
169°	13.9	14.8	14.8	14.8	13.9	12.0	12.0	12.9	12.9	12.0	12.0
170°	13.9	13.9	16.0	14.8	13.9	12.9	13.9	12.9	13.9	12.9	12.0
171°	14.8	14.8	16.0	14.8	14.8	13.9	12.9	12.9	12.9	13.9	12.9
172°	14.8	13.9	14.8	14.8	13.9	14.8	13.9	13.9	12.9	12.9	12.9
173°	16.0	16.0	16.0	16.0	13.9	14.8	13.9	14.8	13.9	13.9	13.9
174°	14.8	16.0	16.0	16.0	14.8	14.8	14.8	13.9	13.9	13.9	13.9
175°	16.0	16.0	16.0	16.0	16.0	14.8	14.8	14.8	13.9	14.8	14.8
176°	14.8	16.0	14.8	14.8	14.8	14.8	14.8	14.8	13.9	14.8	13.9
177°	16.0	16.0	16.0	16.0	16.0	14.8	13.9	13.9	14.8	14.8	13.9
178°	14.8	14.8	16.0	16.0	16.0	13.9	14.8	14.8	14.8	14.8	13.9
179°	16.0	16.0	14.8	16.0	16.0	16.0	16.0	16.0	16.0	16.0	14.8



TEST NUMBER: P571648
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6



TEST NUMBER: P571648
 CATALOG NUMBER: 8ST2L8040

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2384.8	2384.8	2384.8	2384.8	2384.8	2384.8
1°	2421.8	2410.8	2368.2	2395.0	2396.0	2414.8
2°	2423.7	2408.9	2368.2	2395.0	2396.0	2413.9
3°	2421.8	2412.0	2369.2	2393.0	2395.0	2412.9
4°	2421.8	2410.8	2367.1	2393.0	2393.9	2408.0
5°	2420.9	2408.9	2365.2	2389.0	2389.0	2404.0
6°	2416.9	2408.0	2365.2	2389.0	2384.0	2397.9
7°	2412.9	2405.9	2361.2	2384.0	2380.0	2390.1
8°	2408.0	2401.9	2358.2	2378.1	2372.2	2386.1
9°	2405.9	2399.0	2353.2	2374.1	2363.1	2378.1
10°	2399.0	2396.9	2351.3	2369.2	2359.3	2365.2
11°	2392.0	2392.0	2345.3	2360.3	2349.2	2355.3
12°	2388.0	2384.0	2337.5	2352.3	2336.3	2347.3
13°	2381.2	2377.2	2334.4	2347.3	2327.4	2331.4
14°	2372.2	2375.1	2325.5	2336.3	2317.5	2316.6
15°	2366.2	2367.1	2316.6	2323.4	2302.7	2306.7
16°	2358.2	2361.2	2311.6	2316.6	2290.7	2287.7
17°	2350.4	2352.3	2303.6	2303.6	2277.8	2268.9
18°	2341.5	2345.3	2291.7	2288.8	2261.8	2258.0
19°	2329.5	2336.3	2288.8	2276.8	2251.0	2240.2
20°	2317.5	2329.5	2275.9	2265.8	2230.1	2215.3
21°	2304.6	2315.6	2264.9	2248.0	2211.3	2200.5
22°	2297.8	2307.6	2258.0	2235.0	2197.4	2181.5
23°	2281.8	2299.7	2242.1	2223.3	2173.5	2153.7
24°	2264.9	2285.8	2228.2	2203.3	2154.7	2135.9
25°	2255.0	2275.9	2221.2	2184.5	2137.8	2114.9
26°	2241.1	2263.9	2204.3	2171.6	2109.1	2084.2
27°	2222.1	2248.0	2188.5	2152.8	2089.1	2064.4
28°	2212.2	2239.0	2177.5	2130.9	2071.2	2039.5
29°	2198.4	2223.3	2161.7	2117.0	2041.4	2007.8
30°	2180.5	2204.3	2144.8	2096.1	2017.7	1988.8
31°	2170.6	2196.5	2126.0	2071.2	1997.9	1958.2
32°	2149.7	2179.6	2113.0	2054.3	1970.9	1930.2
33°	2131.9	2160.6	2099.2	2034.6	1953.1	1908.4
34°	2118.9	2149.7	2080.2	2005.7	1917.3	1870.8
35°	2096.1	2134.9	2069.3	1988.8	1888.6	1842.8
36°	2077.3	2114.9	2046.5	1967.1	1852.9	1818.1
37°	2063.3	2102.0	2027.5	1938.2	1831.1	1777.3
38°	2040.5	2088.2	2016.7	1919.4	1800.3	1747.6
39°	2021.6	2069.3	2003.8	1895.5	1761.5	1721.8
40°	2005.7	2057.4	1974.9	1868.7	1738.7	1680.0
41°	1981.9	2033.6	1961.0	1850.8	1707.9	1645.4
42°	1963.1	2013.7	1936.3	1820.0	1669.2	1620.5
43°	1947.2	1989.9	1919.4	1793.2	1644.3	1576.8
44°	1919.4	1974.9	1900.4	1775.4	1614.6	1540.1



TEST NUMBER: P571648
 CATALOG NUMBER: 8ST2L8040

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1899.5	1945.3	1874.8	1742.7	1575.9	1504.2
46°	1883.7	1928.3	1854.8	1717.8	1550.0	1476.5
47°	1859.7	1912.4	1837.9	1697.9	1518.3	1430.9
48°	1832.0	1892.6	1816.0	1665.2	1482.6	1395.1
49°	1816.0	1865.8	1787.4	1640.3	1441.7	1368.4
50°	1789.3	1849.9	1771.4	1619.6	1417.9	1320.7
51°	1763.4	1828.0	1747.6	1584.8	1384.1	1283.8
52°	1746.5	1800.3	1718.8	1558.0	1342.5	1256.0
53°	1719.7	1788.3	1703.0	1537.1	1315.7	1208.4
54°	1691.0	1760.6	1678.1	1508.2	1283.8	1169.8
55°	1672.2	1735.7	1648.3	1474.6	1242.2	1141.8
56°	1649.2	1717.8	1631.3	1453.7	1216.3	1093.2
57°	1617.5	1687.0	1607.6	1425.9	1183.6	1053.5
58°	1597.7	1663.3	1576.8	1391.2	1142.8	1024.8
59°	1574.9	1642.4	1564.8	1370.3	1117.1	987.0
60°	1547.0	1609.5	1534.1	1343.5	1084.3	937.4
61°	1529.1	1581.7	1506.3	1308.7	1060.5	908.5
62°	1490.3	1556.9	1487.5	1280.9	1020.8	869.7
63°	1459.6	1518.3	1451.8	1261.0	985.1	821.1
64°	1421.0	1484.5	1421.0	1225.3	954.3	791.4
65°	1395.1	1458.6	1397.0	1197.5	929.4	751.7
66°	1361.3	1415.9	1357.3	1175.7	889.7	704.0
67°	1317.6	1375.2	1322.6	1145.8	858.9	674.2
68°	1289.9	1349.3	1296.7	1107.1	834.0	635.4
69°	1254.1	1301.8	1250.2	1083.3	794.3	586.8
70°	1205.5	1260.0	1212.3	1051.6	763.5	567.0
71°	1174.7	1229.3	1183.6	1008.8	738.8	518.4
72°	1136.0	1187.6	1145.8	983.0	701.0	479.6
73°	1095.3	1136.9	1094.1	949.2	668.3	450.7
74°	1065.5	1097.2	1063.4	903.6	646.5	403.2
75°	1014.7	1067.4	1023.7	875.8	608.6	365.4
76°	976.1	1016.8	973.1	838.9	577.9	338.6
77°	946.3	986.0	943.3	790.3	556.0	292.8
78°	895.6	946.3	903.6	761.6	526.2	283.9
79°	854.9	898.6	854.9	722.8	487.6	233.3
80°	825.1	867.8	826.2	684.1	461.8	192.7
81°	776.4	829.1	787.5	655.4	430.0	161.9
82°	737.7	781.4	738.8	606.7	387.3	139.1
83°	709.9	762.6	710.9	568.9	359.5	111.2
84°	663.4	716.0	675.1	541.2	326.6	79.4
85°	627.5	680.1	640.4	493.5	300.8	62.5
86°	600.7	644.4	596.7	466.7	260.1	38.8
87°	565.9	609.6	572.0	432.9	228.4	23.8
88°	523.3	573.9	538.1	394.1	192.7	16.0
89°	498.4	548.0	512.3	371.3	173.7	7.0



TEST NUMBER: P571648
 CATALOG NUMBER: 8ST2L8040

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	466.7	513.4	470.7	340.5	153.9	4.0
91°	448.8	501.5	452.8	324.7	148.0	3.0
92°	441.8	494.4	440.9	315.8	138.0	4.0
93°	427.0	480.6	434.0	309.7	132.1	4.0
94°	419.0	471.6	423.0	298.9	117.2	3.0
95°	413.1	464.6	411.0	290.0	85.3	1.9
96°	405.1	452.8	404.2	283.9	51.7	3.0
97°	396.2	441.8	395.2	276.1	46.7	3.0
98°	389.2	434.0	382.3	244.2	56.6	3.0
99°	377.4	421.1	376.2	195.5	68.6	1.9
100°	359.5	410.1	365.4	112.1	64.6	1.9
101°	322.7	395.2	322.7	62.5	63.5	1.9
102°	201.6	332.7	265.1	58.5	60.6	1.9
103°	132.1	218.5	149.0	54.5	56.6	1.9
104°	79.4	144.0	63.5	80.4	53.6	1.9
105°	65.6	68.6	55.7	117.2	49.6	1.9
106°	65.6	62.5	51.7	167.8	49.6	1.9
107°	62.5	60.6	48.6	164.7	43.7	1.0
108°	60.6	58.5	55.7	162.8	37.8	1.9
109°	79.4	78.5	113.3	150.9	34.8	1.0
110°	130.2	120.1	177.7	144.0	29.8	1.9
111°	191.5	186.6	221.4	140.0	16.9	1.9
112°	228.4	260.1	223.5	133.0	10.8	1.9
113°	221.4	260.1	214.5	126.2	8.0	1.9
114°	214.5	250.3	207.5	121.2	4.9	1.9
115°	205.6	238.3	200.7	113.3	4.9	1.0
116°	199.5	232.4	190.6	107.2	4.0	1.0
117°	189.6	221.4	184.7	102.2	4.0	1.0
118°	182.6	213.4	177.7	93.3	3.0	1.9
119°	175.8	207.5	168.7	88.4	3.0	1.0
120°	167.8	196.7	161.9	84.4	3.0	1.0
121°	159.8	186.6	154.9	76.4	3.0	1.9
122°	153.0	178.8	145.0	70.5	3.0	1.9
123°	145.0	168.7	139.1	65.6	1.9	1.0
124°	135.1	159.8	131.1	59.7	1.9	1.0
125°	130.2	153.9	125.0	45.6	3.0	1.0
126°	120.1	144.0	119.1	34.8	1.9	1.9
127°	112.1	134.0	109.3	17.9	1.9	1.9
128°	106.2	129.0	101.3	9.9	1.9	1.0
129°	99.4	116.1	95.4	8.0	1.9	1.9
130°	90.5	109.3	86.5	7.0	1.9	1.9
131°	84.4	103.2	78.5	5.9	1.0	1.9
132°	76.4	94.3	72.4	4.9	3.0	1.9
133°	62.5	84.4	53.6	4.9	3.0	1.9
134°	50.5	78.5	34.8	4.0	1.9	1.9



TEST NUMBER: P571648
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	29.8	62.5	22.8	3.0	1.9	1.9
136°	14.8	36.7	10.8	3.0	3.0	3.0
137°	10.8	22.8	8.9	3.0	3.0	1.9
138°	9.9	13.9	9.9	3.0	4.0	3.0
139°	8.0	10.8	8.9	3.0	4.0	3.0
140°	7.0	8.9	5.9	4.0	3.0	3.0
141°	5.9	8.0	4.9	3.0	4.0	3.0
142°	4.9	7.0	4.9	4.0	4.0	4.0
143°	4.0	5.9	4.9	4.0	4.0	4.0
144°	4.9	4.9	4.9	4.9	4.9	4.0
145°	4.9	4.0	4.0	4.9	4.0	4.9
146°	4.9	5.9	4.9	4.9	5.9	4.9
147°	4.9	4.9	5.9	5.9	5.9	4.9
148°	4.9	5.9	7.0	5.9	4.9	5.9
149°	4.9	5.9	5.9	5.9	5.9	5.9
150°	5.9	7.0	5.9	7.0	7.0	7.0
151°	7.0	5.9	7.0	7.0	7.0	7.0
152°	7.0	7.0	7.0	8.0	7.0	5.9
153°	7.0	5.9	7.0	8.0	8.0	8.0
154°	7.0	8.0	8.0	7.0	7.0	8.0
155°	7.0	8.0	8.0	8.0	8.0	8.0
156°	7.0	8.9	8.0	8.9	8.9	8.0
157°	8.0	8.9	9.9	8.9	8.9	8.9
158°	8.9	8.0	8.0	8.9	9.9	8.9
159°	8.9	8.9	8.0	8.9	9.9	9.9
160°	8.0	8.9	9.9	9.9	9.9	9.9
161°	9.9	9.9	9.9	9.9	9.9	9.9
162°	8.9	8.9	9.9	10.8	10.8	10.8
163°	9.9	10.8	10.8	10.8	10.8	10.8
164°	9.9	9.9	10.8	10.8	12.0	12.0
165°	8.9	10.8	12.0	12.0	12.0	12.9
166°	10.8	10.8	12.0	12.0	12.9	12.0
167°	10.8	12.0	12.0	12.9	12.9	12.9
168°	12.0	12.0	12.9	12.9	13.9	12.9
169°	12.9	12.9	13.9	13.9	13.9	13.9
170°	12.9	12.9	12.9	12.9	13.9	13.9
171°	12.9	13.9	13.9	12.9	13.9	14.8
172°	12.9	14.8	13.9	13.9	13.9	14.8
173°	13.9	14.8	13.9	14.8	13.9	16.0
174°	13.9	14.8	14.8	14.8	14.8	14.8
175°	14.8	14.8	14.8	14.8	14.8	16.0
176°	14.8	14.8	13.9	14.8	16.0	14.8
177°	13.9	14.8	16.0	14.8	14.8	16.0
178°	14.8	16.0	16.0	16.0	14.8	14.8
179°	16.0	16.0	14.8	14.8	16.0	16.0



TEST NUMBER: P571648
CATALOG NUMBER: 8ST2L8040

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	15.6	15.6	15.6	15.6	15.6	15.6

(END OF REPORT)