

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: P571649

Luminaire Tested: **8ST2L8040R**

Issue Date: 3/18/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P571649  
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: 8ST2L8040R  
Description: 8 FOOT ST2 STIPLIGHT WITH 4000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

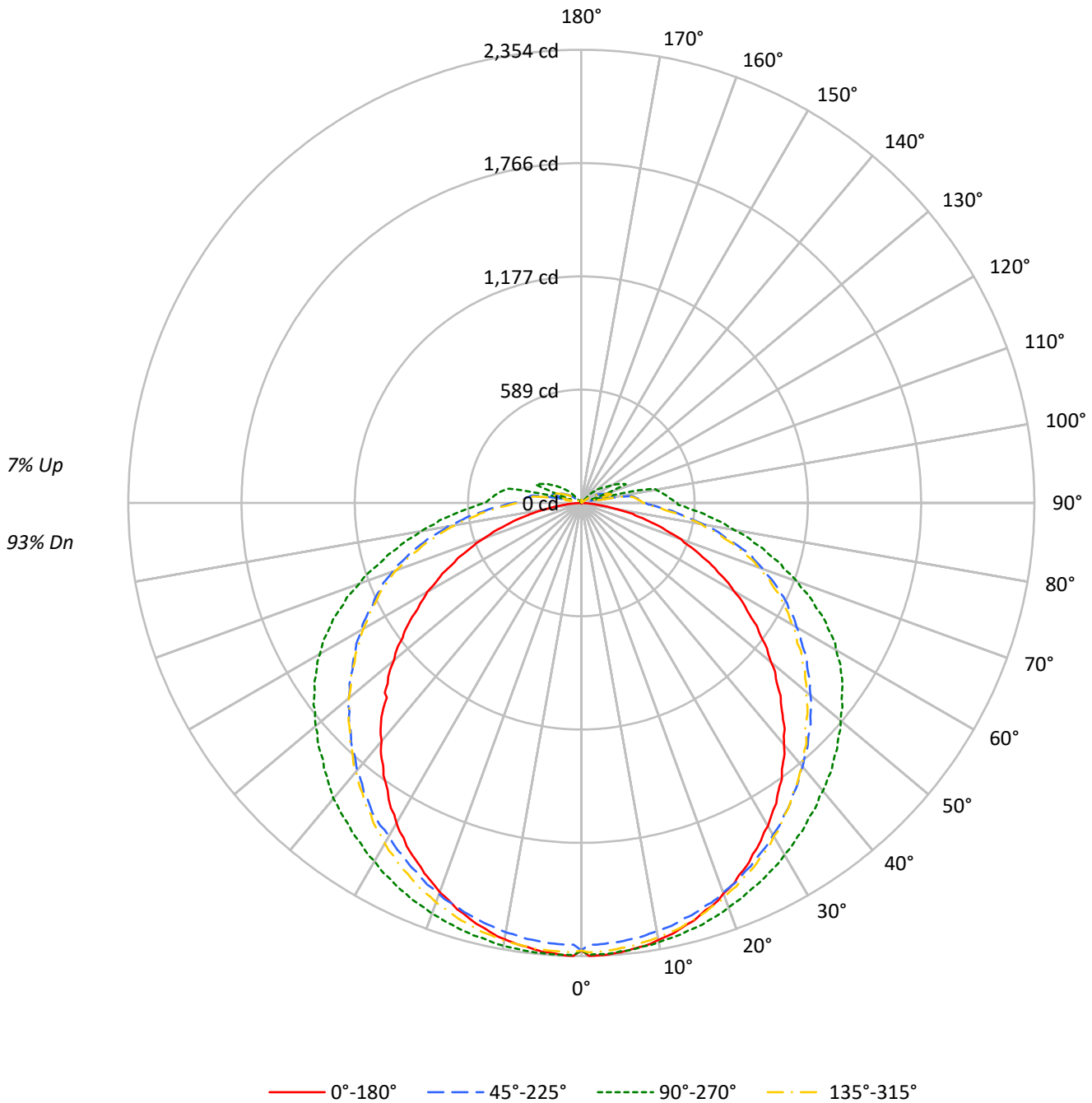
Lumens per Lamp: N/A  
Luminaire Lumens: 8519.1 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.15' x L: 8' x H: 0.11')  
CIE Type: Direct

Input Watts (W): 80  
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



TEST NUMBER: P571649  
CATALOG NUMBER: 8ST2L8040R

### 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°	21444	21444	21444	21444
5°	21673	20333	21646	20416
10°	21544	19191	21508	19351
15°	21395	18201	21284	18378
20°	21094	17284	21027	17546
25°	20851	16485	20666	16771
30°	20490	15737	20306	16017
35°	20039	15078	19781	15416
40°	19498	14489	19234	14876
45°	18873	13924	18400	14194
50°	18181	13395	17948	13726
55°	17560	12924	17333	13203
60°	16472	12331	16645	12658
65°	15542	11594	15417	11968
70°	14372	10585	14021	10893
75°	12083	9438	12379	9829
80°	9266	8226	9311	8621
85°	5583	7114	5858	7393



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.0	2.6
10°-20°	633.2	7.4
20°-30°	970.1	11.4
30°-40°	1195.7	14.0
40°-50°	1290.8	15.2
50°-60°	1257.6	14.8
60°-70°	1101.2	12.9
70°-80°	818.7	9.6
80°-90°	474.9	5.6
90°-100°	272.6	3.2
100°-110°	100.3	1.2
110°-120°	103.4	1.2
120°-130°	54.7	0.6
130°-140°	14.8	0.2
140°-150°	3.1	0.0
150°-160°	3.5	0.0
160°-170°	3.1	0.0
170°-180°	1.3	0.0
0°-30°	1823.4	21.4
0°-40°	3019.0	35.4
0°-60°	5567.5	65.4
0°-90°	7962.2	93.5
90°-120°	476.4	5.6
90°-150°	548.9	6.4
90°-180°	557.0	6.5
0°-180°	8519.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2324	2324	2324	2324	2324	
5°	2343	2338	2340	2348	2343	222
15°	2248	2285	2236	2307	2248	633
25°	2061	2180	2043	2218	2061	948
35°	1796	2035	1773	2081	1796	1123
45°	1466	1860	1429	1896	1466	1133
55°	1113	1656	1098	1692	1113	989
65°	733	1377	727	1422	733	723
75°	356	999	365	1040	356	385
85°	61	638	64	663	61	75
90°	4	498	6	500	4	4
95°	2	443	3	453	2	2
105°	2	67	2	67	2	2
115°	1	236	3	232	1	1
125°	1	142	2	150	1	1
135°	2	68	3	61	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	14	16	1
180°	15	15	15	15	15	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2
1°	2353.5	2242.2	2294.4	2359.4	2347.7	2308.1	2335.1	2333.1	2353.5	2242.2	2294.4
2°	2352.5	2241.2	2295.5	2358.3	2345.7	2305.1	2332.2	2332.2	2352.5	2241.2	2296.4
3°	2351.6	2240.3	2293.5	2357.4	2346.8	2302.2	2331.3	2330.3	2347.7	2239.4	2294.4
4°	2346.8	2237.4	2288.7	2355.5	2343.8	2301.2	2327.4	2326.4	2341.8	2235.5	2293.5
5°	2342.9	2233.5	2288.7	2352.5	2338.1	2298.3	2321.6	2320.7	2340.0	2231.6	2289.6
6°	2337.0	2230.7	2282.9	2347.7	2338.1	2291.6	2318.7	2317.7	2332.2	2229.6	2284.8
7°	2329.4	2223.8	2279.0	2343.8	2333.1	2289.6	2312.9	2310.9	2323.5	2222.0	2282.9
8°	2325.5	2218.1	2274.2	2340.0	2325.5	2282.9	2304.2	2300.3	2318.7	2213.3	2276.1
9°	2317.7	2211.2	2265.5	2333.1	2324.4	2276.1	2300.3	2293.5	2310.0	2208.3	2268.3
10°	2305.1	2201.6	2259.6	2329.4	2316.8	2272.2	2290.7	2287.7	2301.2	2198.7	2264.4
11°	2295.5	2195.7	2252.0	2323.5	2310.0	2265.5	2283.8	2275.1	2292.5	2188.1	2255.7
12°	2287.7	2183.3	2246.1	2314.8	2305.1	2256.8	2275.1	2260.7	2278.1	2173.5	2247.0
13°	2272.2	2169.6	2235.5	2310.0	2300.3	2249.9	2267.4	2254.8	2263.5	2166.8	2240.3
14°	2257.7	2162.9	2222.9	2299.4	2290.7	2242.2	2253.8	2239.4	2253.8	2159.9	2228.7
15°	2248.1	2148.3	2217.0	2287.7	2284.8	2232.5	2242.2	2222.9	2236.4	2145.5	2219.9
16°	2229.6	2139.6	2205.5	2280.9	2279.0	2222.9	2232.5	2213.3	2219.0	2129.0	2211.2
17°	2211.2	2127.0	2190.9	2269.4	2266.4	2215.1	2219.0	2197.7	2208.3	2118.3	2196.8
18°	2200.7	2110.7	2183.3	2255.7	2258.7	2202.5	2203.5	2177.4	2185.1	2105.7	2187.0
19°	2183.3	2095.1	2171.6	2252.9	2249.0	2193.8	2193.8	2165.7	2166.8	2086.4	2177.4
20°	2159.0	2083.5	2154.2	2238.3	2236.4	2182.2	2177.4	2150.3	2152.2	2069.9	2162.9
21°	2144.6	2064.2	2140.7	2226.8	2224.8	2169.6	2159.9	2125.1	2128.1	2058.3	2146.4
22°	2126.1	2045.9	2129.9	2218.1	2217.0	2159.9	2148.3	2110.7	2107.7	2040.9	2137.7
23°	2099.0	2033.3	2112.5	2201.6	2201.6	2145.5	2129.0	2092.2	2089.4	2017.7	2119.4
24°	2081.6	2009.9	2094.2	2188.1	2189.9	2132.9	2112.5	2069.0	2062.2	2005.1	2099.9
25°	2061.2	1989.6	2082.5	2178.3	2180.3	2121.2	2099.0	2055.5	2042.9	1983.8	2088.3
26°	2031.2	1976.0	2062.2	2159.0	2167.7	2104.8	2080.7	2027.3	2022.5	1958.6	2069.9
27°	2012.0	1950.9	2044.8	2143.5	2152.2	2098.1	2058.3	2004.2	2000.3	1944.2	2050.7
28°	1987.7	1928.6	2031.2	2132.9	2141.6	2084.6	2044.8	1986.8	1968.3	1922.9	2039.0
29°	1956.8	1913.3	2014.8	2112.5	2129.9	2072.0	2025.5	1957.7	1949.9	1895.9	2020.7
30°	1938.3	1890.9	1991.6	2096.1	2110.7	2051.6	1999.4	1933.4	1920.9	1878.4	1998.3
31°	1908.4	1863.8	1976.0	2074.8	2099.0	2040.9	1985.9	1914.2	1888.1	1856.0	1982.9
32°	1881.2	1845.5	1958.6	2062.2	2082.5	2023.5	1960.7	1882.2	1867.7	1828.1	1975.1
33°	1859.9	1828.1	1933.4	2046.8	2065.1	2004.2	1935.5	1858.1	1837.7	1816.4	1956.8
34°	1823.3	1792.1	1918.1	2030.3	2054.6	1992.5	1919.9	1835.9	1800.8	1784.6	1942.2
35°	1796.0	1772.9	1896.8	2012.9	2035.1	1974.2	1895.9	1802.0	1772.9	1759.4	1917.2
36°	1772.0	1747.7	1871.6	1995.5	2015.9	1952.9	1866.8	1774.7	1748.6	1741.0	1894.7
37°	1732.1	1714.7	1855.1	1980.9	2005.1	1941.2	1851.2	1745.8	1709.9	1709.0	1879.4
38°	1703.3	1695.5	1832.0	1962.5	1987.7	1923.8	1829.0	1724.5	1685.8	1682.9	1851.2
39°	1678.1	1667.3	1804.7	1939.4	1965.5	1906.4	1803.8	1687.7	1655.8	1663.4	1829.9
40°	1637.3	1632.5	1788.4	1926.8	1952.9	1893.8	1786.4	1658.6	1615.1	1628.6	1813.4
41°	1603.6	1613.2	1764.2	1904.6	1936.4	1870.7	1756.4	1635.5	1589.9	1600.7	1785.5
42°	1579.4	1585.1	1743.8	1880.3	1917.2	1851.2	1730.3	1596.8	1558.1	1580.3	1762.1
43°	1536.8	1562.9	1725.5	1865.9	1904.6	1836.8	1713.8	1567.7	1523.2	1545.5	1744.7
44°	1501.0	1534.9	1696.4	1844.6	1881.2	1810.7	1682.0	1543.6	1479.7	1518.4	1722.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1466.0	1498.1	1676.0	1818.4	1859.9	1789.4	1644.2	1498.1	1429.3	1480.6	1693.4
46°	1439.0	1476.8	1656.8	1802.9	1846.4	1764.2	1625.8	1475.8	1419.7	1457.3	1668.4
47°	1394.5	1444.9	1627.7	1781.6	1822.1	1748.6	1606.4	1451.6	1376.2	1429.3	1652.0
48°	1359.7	1409.0	1604.5	1755.5	1799.9	1727.3	1581.2	1411.9	1349.9	1407.1	1621.9
49°	1333.6	1386.7	1584.2	1734.2	1785.5	1712.0	1548.4	1379.9	1315.1	1369.3	1604.5
50°	1287.1	1354.9	1554.2	1718.6	1759.4	1684.7	1528.1	1356.7	1270.6	1339.3	1578.4
51°	1251.2	1317.1	1527.1	1694.5	1737.1	1663.4	1503.8	1323.8	1243.6	1310.3	1548.4
52°	1224.1	1287.1	1508.6	1667.3	1721.6	1645.1	1475.8	1284.2	1209.7	1286.2	1528.1
53°	1177.7	1261.9	1477.7	1649.9	1694.5	1625.8	1456.4	1262.9	1163.2	1248.4	1501.9
54°	1140.1	1224.1	1449.7	1625.8	1674.2	1597.7	1423.6	1229.0	1135.1	1226.2	1469.0
55°	1112.8	1200.1	1431.2	1596.8	1655.8	1579.4	1396.4	1190.3	1098.4	1194.1	1449.7
56°	1065.4	1170.1	1405.1	1580.3	1634.5	1558.1	1377.1	1166.2	1061.5	1156.4	1425.5
57°	1026.7	1138.0	1371.2	1555.1	1607.3	1529.9	1337.5	1135.1	1015.1	1109.0	1398.4
58°	998.8	1099.3	1345.1	1525.1	1588.1	1505.8	1317.1	1095.4	988.9	1101.4	1379.0
59°	961.9	1076.2	1325.8	1505.8	1556.0	1488.4	1297.7	1072.3	952.3	1063.6	1347.1
60°	913.6	1043.2	1291.0	1480.6	1528.1	1456.4	1264.9	1041.4	923.2	1033.6	1319.0
61°	885.4	1020.1	1269.7	1459.3	1508.6	1432.3	1238.8	1001.5	877.6	1010.2	1299.7
62°	847.6	983.2	1243.6	1422.5	1476.8	1411.0	1217.5	978.4	840.1	972.7	1266.7
63°	800.2	951.4	1209.7	1393.6	1438.0	1374.2	1183.6	949.3	811.9	940.6	1239.7
64°	771.3	928.0	1189.3	1352.9	1412.9	1345.1	1160.3	910.6	764.5	918.4	1204.9
65°	732.6	890.2	1160.3	1328.6	1377.1	1321.0	1139.0	889.3	726.7	886.3	1185.4
66°	686.2	859.3	1123.6	1295.8	1333.6	1288.0	1102.3	856.3	699.7	848.8	1159.3
67°	657.1	836.2	1101.4	1259.0	1306.4	1246.4	1073.2	826.5	651.3	826.5	1123.6
68°	619.3	798.4	1069.3	1231.9	1269.7	1220.3	1051.9	787.6	614.5	796.5	1110.1
69°	571.9	769.3	1030.6	1187.5	1222.3	1184.5	1011.4	764.5	585.4	757.6	1073.2
70°	552.6	746.2	1006.4	1148.8	1193.2	1139.0	977.5	734.5	539.1	735.4	1041.4
71°	505.2	709.3	972.7	1120.6	1155.4	1111.0	954.1	711.3	502.3	706.5	1018.0
72°	467.4	680.2	940.6	1072.3	1106.2	1072.3	919.3	674.5	474.1	669.7	977.5
73°	439.3	659.1	923.2	1032.7	1085.8	1021.9	877.6	645.4	427.8	648.4	944.5
74°	393.0	629.1	870.1	1003.6	1037.5	992.8	850.6	624.1	391.9	619.3	919.3
75°	356.1	594.1	833.2	954.1	998.8	955.1	813.9	590.2	364.8	584.5	877.6
76°	330.0	565.2	784.9	916.4	970.6	906.7	768.4	561.3	330.9	555.4	841.0
77°	285.4	541.9	756.7	887.5	922.3	878.8	740.2	539.1	286.5	534.1	813.9
78°	276.7	502.3	727.8	837.1	894.1	840.1	703.6	502.3	261.3	506.1	768.4
79°	227.4	470.4	691.9	799.3	853.6	803.2	657.1	470.4	229.3	482.8	730.6
80°	187.8	445.2	647.4	772.3	807.1	775.2	631.0	438.4	188.7	444.1	703.6
81°	157.8	402.6	607.8	734.5	770.2	729.7	593.2	414.1	166.5	414.1	658.0
82°	135.6	369.7	560.4	688.0	744.1	693.9	546.7	372.6	138.3	390.0	623.2
83°	108.3	344.5	533.2	661.0	698.7	668.7	528.4	347.4	104.5	349.3	595.2
84°	77.4	303.0	498.4	634.9	662.8	626.1	483.9	314.5	86.1	317.4	559.3
85°	60.9	279.6	473.2	598.0	637.8	589.3	441.3	275.8	63.9	292.2	512.8
86°	37.8	248.7	430.6	555.4	595.2	564.1	418.0	243.9	40.6	253.5	485.8
87°	23.1	211.9	397.8	521.5	561.3	520.6	384.1	219.6	31.9	224.5	451.0
88°	15.6	191.7	373.5	481.9	537.1	490.6	353.2	184.8	16.5	202.2	410.4
89°	6.9	166.5	345.4	462.6	502.3	467.4	335.8	160.6	8.7	169.3	387.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	3.9	156.9	331.9	452.8	498.4	442.2	323.2	150.9	5.7	149.1	355.2
91°	3.0	150.0	324.3	445.2	483.9	435.4	314.5	145.2	4.8	143.2	322.2
92°	3.9	140.4	317.4	433.5	473.2	426.7	307.8	138.3	3.0	132.6	313.5
93°	3.9	133.5	303.9	423.9	460.6	421.0	298.0	133.5	3.9	127.8	303.9
94°	3.0	128.7	297.1	413.2	452.8	409.3	289.3	124.8	3.9	121.9	297.1
95°	1.9	88.2	289.3	406.5	443.2	402.6	284.5	82.2	3.0	99.6	292.2
96°	3.0	52.2	279.6	396.7	431.7	393.9	273.9	61.9	3.0	60.9	280.6
97°	3.0	46.5	274.8	385.2	423.9	383.2	265.2	51.3	3.0	54.3	270.9
98°	3.0	49.3	259.3	378.4	415.2	376.5	250.6	59.1	3.0	55.2	266.1
99°	1.9	70.6	180.9	366.7	402.6	367.8	174.3	70.6	3.0	68.7	245.8
100°	1.9	69.6	115.2	356.1	394.8	355.2	83.2	67.8	1.9	66.9	191.7
101°	1.9	65.7	57.0	322.2	385.2	343.5	66.9	63.9	1.9	63.0	139.3
102°	1.9	61.9	54.3	221.7	331.9	284.5	60.0	60.0	3.0	60.0	76.5
103°	1.9	57.0	49.3	124.8	270.9	180.0	56.1	56.1	3.0	57.0	69.6
104°	1.9	54.3	52.2	57.0	155.8	87.0	60.0	52.2	3.0	54.3	66.9
105°	1.9	49.3	94.8	47.4	66.9	59.1	110.4	50.4	1.9	49.3	78.3
106°	1.9	47.4	138.3	45.6	59.1	57.0	161.7	46.5	1.9	46.5	118.2
107°	0.9	43.5	168.3	43.5	56.1	53.2	158.7	42.6	1.9	41.7	151.9
108°	1.9	38.7	160.6	53.2	55.2	50.4	153.9	40.6	1.9	38.7	156.9
109°	0.9	35.7	155.8	90.0	54.3	69.6	147.0	36.9	1.9	34.8	150.0
110°	1.9	33.0	146.1	153.0	90.0	137.4	141.3	31.9	1.9	30.0	145.2
111°	1.9	26.1	136.5	226.5	150.0	185.8	129.6	29.1	1.9	19.4	136.5
112°	1.9	18.3	129.6	224.5	200.4	221.7	120.9	17.4	0.9	12.6	131.7
113°	1.9	8.7	120.0	215.8	250.6	216.7	115.2	7.8	1.9	7.8	126.9
114°	1.9	5.7	113.2	208.0	241.9	206.1	107.4	6.9	1.9	6.9	121.9
115°	0.9	5.7	108.3	201.3	236.1	197.4	101.7	5.7	3.0	5.7	114.3
116°	0.9	4.8	103.5	189.6	226.5	185.8	99.6	4.8	1.9	4.8	109.3
117°	0.9	3.0	96.9	179.1	213.9	178.0	94.8	3.9	1.9	3.0	104.5
118°	1.9	3.0	93.9	170.4	207.0	168.3	90.0	3.0	1.9	3.0	95.7
119°	0.9	3.0	88.2	158.7	194.5	160.6	85.2	3.0	1.9	3.0	93.0
120°	0.9	3.0	80.4	151.9	181.9	151.9	81.3	3.0	1.9	3.0	85.2
121°	1.9	3.0	75.6	142.2	173.2	141.3	74.4	3.0	1.9	3.0	79.3
122°	1.9	1.9	71.7	137.4	163.5	135.6	69.6	3.0	1.9	3.0	74.4
123°	0.9	1.9	63.9	130.6	153.9	130.6	64.8	0.9	1.9	3.0	67.8
124°	0.9	1.9	59.1	123.0	149.1	123.0	57.0	3.0	3.0	3.0	60.9
125°	0.9	1.9	55.2	118.2	142.2	117.0	52.2	1.9	1.9	1.9	58.2
126°	1.9	0.9	40.6	111.3	132.6	112.2	39.6	3.0	1.9	1.9	44.4
127°	1.9	3.0	24.3	104.5	128.7	105.6	19.4	1.9	1.9	1.9	29.1
128°	0.9	1.9	13.5	99.6	120.0	98.7	13.5	1.9	1.9	1.9	18.3
129°	1.9	1.9	7.8	90.9	116.1	94.8	8.7	1.9	1.9	3.0	9.6
130°	1.9	1.9	6.9	83.2	107.4	87.0	6.9	1.9	1.9	3.0	9.6
131°	1.9	3.0	6.9	78.3	99.6	79.3	6.9	3.0	3.0	1.9	7.8
132°	1.9	1.9	4.8	69.6	89.1	74.4	5.7	3.0	3.0	3.0	5.7
133°	1.9	1.9	3.9	63.0	87.0	67.8	4.8	3.9	3.0	3.0	4.8
134°	1.9	3.0	3.0	46.5	77.4	49.3	3.9	1.9	1.9	3.0	4.8





TEST NUMBER: P571649  
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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	35.7	67.8	35.7	3.0	3.0	3.0	3.0	3.9
136°	3.0	1.9	3.9	12.6	54.3	17.4	3.0	3.0	1.9	3.0	3.9
137°	1.9	1.9	3.0	8.7	27.0	10.6	3.0	3.0	3.0	3.0	3.9
138°	3.0	3.0	3.0	7.8	14.4	9.6	3.0	3.0	3.0	3.0	3.9
139°	3.0	3.0	3.0	7.8	10.6	7.8	3.9	3.0	3.0	3.9	3.0
140°	3.0	3.0	3.9	5.7	8.7	6.9	4.8	3.9	3.9	3.0	3.9
141°	3.0	3.9	3.9	4.8	7.8	5.7	3.9	3.9	3.9	4.8	4.8
142°	3.9	3.9	3.9	4.8	7.8	5.7	3.9	3.9	3.0	4.8	4.8
143°	3.9	3.9	3.9	3.9	5.7	4.8	3.9	3.9	3.9	3.9	4.8
144°	3.9	4.8	4.8	4.8	4.8	4.8	3.9	3.9	4.8	4.8	4.8
145°	4.8	3.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
146°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.7	5.7	4.8
147°	4.8	4.8	4.8	4.8	5.7	4.8	5.7	4.8	4.8	4.8	4.8
148°	5.7	5.7	5.7	5.7	5.7	4.8	4.8	4.8	5.7	4.8	4.8
149°	5.7	5.7	6.9	6.9	6.9	5.7	4.8	4.8	5.7	5.7	5.7
150°	6.9	6.9	5.7	5.7	5.7	5.7	5.7	6.9	5.7	5.7	5.7
151°	6.9	6.9	5.7	6.9	6.9	5.7	6.9	6.9	6.9	5.7	5.7
152°	5.7	6.9	6.9	6.9	6.9	5.7	6.9	6.9	6.9	6.9	6.9
153°	7.8	7.8	6.9	6.9	7.8	6.9	6.9	5.7	6.9	6.9	6.9
154°	7.8	7.8	7.8	6.9	7.8	6.9	5.7	6.9	6.9	6.9	7.8
155°	7.8	8.7	8.7	6.9	7.8	6.9	6.9	7.8	7.8	7.8	6.9
156°	7.8	7.8	8.7	8.7	7.8	7.8	6.9	7.8	7.8	7.8	6.9
157°	8.7	8.7	8.7	8.7	8.7	6.9	7.8	8.7	7.8	7.8	7.8
158°	8.7	9.6	8.7	8.7	9.6	7.8	8.7	7.8	8.7	8.7	7.8
159°	9.6	9.6	8.7	9.6	9.6	8.7	8.7	8.7	8.7	8.7	8.7
160°	9.6	9.6	10.6	8.7	9.6	7.8	8.7	8.7	9.6	8.7	8.7
161°	9.6	10.6	9.6	10.6	9.6	8.7	9.6	8.7	9.6	9.6	8.7
162°	10.6	10.6	10.6	10.6	10.6	8.7	9.6	8.7	9.6	8.7	8.7
163°	10.6	10.6	11.7	10.6	10.6	9.6	9.6	10.6	9.6	9.6	9.6
164°	11.7	11.7	12.6	11.7	11.7	10.6	10.6	9.6	10.6	10.6	8.7
165°	12.6	11.7	12.6	12.6	10.6	9.6	10.6	10.6	10.6	10.6	10.6
166°	11.7	12.6	12.6	12.6	11.7	10.6	10.6	11.7	10.6	10.6	9.6
167°	12.6	12.6	13.5	12.6	12.6	10.6	12.6	11.7	10.6	11.7	11.7
168°	12.6	12.6	13.5	13.5	12.6	10.6	12.6	11.7	11.7	11.7	11.7
169°	13.5	14.4	14.4	14.4	13.5	11.7	11.7	12.6	12.6	11.7	11.7
170°	13.5	13.5	15.6	14.4	13.5	12.6	13.5	12.6	13.5	12.6	11.7
171°	14.4	14.4	15.6	14.4	14.4	13.5	12.6	12.6	12.6	13.5	12.6
172°	14.4	13.5	14.4	14.4	13.5	14.4	13.5	13.5	12.6	12.6	12.6
173°	15.6	15.6	15.6	15.6	13.5	14.4	13.5	14.4	13.5	13.5	13.5
174°	14.4	15.6	15.6	15.6	14.4	14.4	14.4	13.5	13.5	13.5	13.5
175°	15.6	15.6	15.6	15.6	15.6	14.4	14.4	14.4	13.5	14.4	14.4
176°	14.4	15.6	14.4	14.4	14.4	14.4	14.4	14.4	13.5	14.4	13.5
177°	15.6	15.6	15.6	15.6	15.6	14.4	13.5	13.5	14.4	14.4	13.5
178°	14.4	14.4	15.6	15.6	15.6	13.5	14.4	14.4	14.4	14.4	13.5
179°	15.6	15.6	14.4	15.6	15.6	15.6	15.6	15.6	15.6	15.6	14.4



TEST NUMBER: P571649  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2



TEST NUMBER: P571649  
 CATALOG NUMBER: 8ST2L8040R

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2
1°	2360.3	2349.6	2308.1	2334.2	2335.1	2353.5
2°	2362.2	2347.7	2308.1	2334.2	2335.1	2352.5
3°	2360.3	2350.7	2309.0	2332.2	2334.2	2351.6
4°	2360.3	2349.6	2307.0	2332.2	2333.1	2346.8
5°	2359.4	2347.7	2305.1	2328.3	2328.3	2342.9
6°	2355.5	2346.8	2305.1	2328.3	2323.5	2337.0
7°	2351.6	2344.8	2301.2	2323.5	2319.6	2329.4
8°	2346.8	2340.9	2298.3	2317.7	2312.0	2325.5
9°	2344.8	2338.1	2293.5	2313.8	2303.1	2317.7
10°	2338.1	2336.1	2291.6	2309.0	2299.4	2305.1
11°	2331.3	2331.3	2285.7	2300.3	2289.6	2295.5
12°	2327.4	2323.5	2278.1	2292.5	2277.0	2287.7
13°	2320.7	2316.8	2275.1	2287.7	2268.3	2272.2
14°	2312.0	2314.8	2266.4	2277.0	2258.7	2257.7
15°	2306.1	2307.0	2257.7	2264.4	2244.2	2248.1
16°	2298.3	2301.2	2252.9	2257.7	2232.5	2229.6
17°	2290.7	2292.5	2245.1	2245.1	2219.9	2211.2
18°	2282.0	2285.7	2233.5	2230.7	2204.4	2200.7
19°	2270.3	2277.0	2230.7	2219.0	2193.8	2183.3
20°	2258.7	2270.3	2218.1	2208.3	2173.5	2159.0
21°	2246.1	2256.8	2207.4	2190.9	2155.1	2144.6
22°	2239.4	2249.0	2200.7	2178.3	2141.6	2126.1
23°	2223.8	2241.2	2185.1	2166.8	2118.3	2099.0
24°	2207.4	2227.7	2171.6	2147.4	2099.9	2081.6
25°	2197.7	2218.1	2164.8	2129.0	2083.5	2061.2
26°	2184.2	2206.4	2148.3	2116.4	2055.5	2031.2
27°	2165.7	2190.9	2132.9	2098.1	2036.0	2012.0
28°	2156.1	2182.2	2122.2	2076.8	2018.6	1987.7
29°	2142.5	2166.8	2106.8	2063.3	1989.6	1956.8
30°	2125.1	2148.3	2090.3	2042.9	1966.4	1938.3
31°	2115.5	2140.7	2072.0	2018.6	1947.2	1908.4
32°	2095.1	2124.2	2059.4	2002.2	1920.9	1881.2
33°	2077.7	2105.7	2045.9	1982.9	1903.4	1859.9
34°	2065.1	2095.1	2027.3	1954.7	1868.6	1823.3
35°	2042.9	2080.7	2016.8	1938.3	1840.7	1796.0
36°	2024.6	2061.2	1994.6	1917.2	1805.8	1772.0
37°	2010.9	2048.6	1976.0	1889.0	1784.6	1732.1
38°	1988.6	2035.1	1965.5	1870.7	1754.5	1703.3
39°	1970.3	2016.8	1952.9	1847.3	1716.8	1678.1
40°	1954.7	2005.1	1924.7	1821.2	1694.5	1637.3
41°	1931.6	1982.0	1911.2	1803.8	1664.5	1603.6
42°	1913.3	1962.5	1887.2	1773.8	1626.8	1579.4
43°	1897.7	1939.4	1870.7	1747.7	1602.5	1536.8
44°	1870.7	1924.7	1852.1	1730.3	1573.6	1501.0



TEST NUMBER: P571649  
 CATALOG NUMBER: 8ST2L8040R

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1851.2	1895.9	1827.1	1698.4	1535.8	1466.0
46°	1835.9	1879.4	1807.7	1674.2	1510.6	1439.0
47°	1812.5	1863.8	1791.2	1654.7	1479.7	1394.5
48°	1785.5	1844.6	1769.9	1622.9	1444.9	1359.7
49°	1769.9	1818.4	1742.0	1598.6	1405.1	1333.6
50°	1743.8	1802.9	1726.4	1578.4	1381.9	1287.1
51°	1718.6	1781.6	1703.3	1544.5	1349.0	1251.2
52°	1702.1	1754.5	1675.1	1518.4	1308.4	1224.1
53°	1676.0	1742.9	1659.7	1498.1	1282.3	1177.7
54°	1648.1	1715.8	1635.5	1469.9	1251.2	1140.1
55°	1629.7	1691.6	1606.4	1437.1	1210.6	1112.8
56°	1607.3	1674.2	1589.9	1416.8	1185.4	1065.4
57°	1576.4	1644.2	1566.8	1389.7	1153.6	1026.7
58°	1557.1	1621.0	1536.8	1355.8	1113.8	998.8
59°	1534.9	1600.7	1525.1	1335.5	1088.8	961.9
60°	1507.7	1568.6	1495.1	1309.3	1056.7	913.6
61°	1490.3	1541.6	1468.1	1275.4	1033.6	885.4
62°	1452.5	1517.3	1449.7	1248.4	994.9	847.6
63°	1422.5	1479.7	1414.9	1229.0	960.1	800.2
64°	1384.9	1446.8	1384.9	1194.1	930.1	771.3
65°	1359.7	1421.6	1361.6	1167.1	905.8	732.6
66°	1326.7	1379.9	1322.9	1145.8	867.1	686.2
67°	1284.2	1340.3	1289.0	1116.7	837.1	657.1
68°	1257.1	1315.1	1263.8	1079.0	812.8	619.3
69°	1222.3	1268.8	1218.4	1055.8	774.1	571.9
70°	1174.9	1228.0	1181.6	1024.9	744.1	552.6
71°	1144.9	1198.0	1153.6	983.2	720.0	505.2
72°	1107.1	1157.5	1116.7	958.0	683.2	467.4
73°	1067.5	1108.0	1066.4	925.1	651.3	439.3
74°	1038.4	1069.3	1036.4	880.6	630.0	393.0
75°	988.9	1040.2	997.7	853.6	593.2	356.1
76°	951.4	991.0	948.4	817.6	563.2	330.0
77°	922.3	961.0	919.3	770.2	541.9	285.4
78°	872.8	922.3	880.6	742.3	512.8	276.7
79°	833.2	875.8	833.2	704.5	475.2	227.4
80°	804.1	845.8	805.2	666.7	450.0	187.8
81°	756.7	808.0	767.5	638.7	419.1	157.8
82°	718.9	761.5	720.0	591.3	377.4	135.6
83°	691.9	743.2	692.8	554.5	350.4	108.3
84°	646.5	697.8	658.0	527.4	318.4	77.4
85°	611.5	662.8	624.1	481.0	293.2	60.9
86°	585.4	628.0	581.5	454.8	253.5	37.8
87°	551.5	594.1	557.4	421.9	222.6	23.1
88°	510.0	559.3	524.5	384.1	187.8	15.6
89°	485.8	534.1	499.3	361.9	169.3	6.9



TEST NUMBER: P571649  
 CATALOG NUMBER: 8ST2L8040R

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	454.8	500.4	458.7	331.9	150.0	3.9
91°	437.4	488.7	441.3	316.5	144.3	3.0
92°	430.6	481.9	429.7	307.8	134.5	3.9
93°	416.1	468.4	423.0	301.9	128.7	3.9
94°	408.4	459.7	412.2	291.3	114.3	3.0
95°	402.6	452.8	400.6	282.6	83.2	1.9
96°	394.8	441.3	393.9	276.7	50.4	3.0
97°	386.1	430.6	385.2	269.1	45.6	3.0
98°	379.3	423.0	372.6	238.0	55.2	3.0
99°	367.8	410.4	366.7	190.6	66.9	1.9
100°	350.4	399.7	356.1	109.3	63.0	1.9
101°	314.5	385.2	314.5	60.9	61.9	1.9
102°	196.5	324.3	258.3	57.0	59.1	1.9
103°	128.7	213.0	145.2	53.2	55.2	1.9
104°	77.4	140.4	61.9	78.3	52.2	1.9
105°	63.9	66.9	54.3	114.3	48.3	1.9
106°	63.9	60.9	50.4	163.5	48.3	1.9
107°	60.9	59.1	47.4	160.6	42.6	0.9
108°	59.1	57.0	54.3	158.7	36.9	1.9
109°	77.4	76.5	110.4	147.0	33.9	0.9
110°	126.9	117.0	173.2	140.4	29.1	1.9
111°	186.7	181.9	215.8	136.5	16.5	1.9
112°	222.6	253.5	217.8	129.6	10.6	1.9
113°	215.8	253.5	209.1	123.0	7.8	1.9
114°	209.1	243.9	202.2	118.2	4.8	1.9
115°	200.4	232.2	195.6	110.4	4.8	0.9
116°	194.5	226.5	185.8	104.5	3.9	0.9
117°	184.8	215.8	180.0	99.6	3.9	0.9
118°	178.0	208.0	173.2	90.9	3.0	1.9
119°	171.3	202.2	164.5	86.1	3.0	0.9
120°	163.5	191.7	157.8	82.2	3.0	0.9
121°	155.8	181.9	150.9	74.4	3.0	1.9
122°	149.1	174.3	141.3	68.7	3.0	1.9
123°	141.3	164.5	135.6	63.9	1.9	0.9
124°	131.7	155.8	127.8	58.2	1.9	0.9
125°	126.9	150.0	121.9	44.4	3.0	0.9
126°	117.0	140.4	116.1	33.9	1.9	1.9
127°	109.3	130.6	106.5	17.4	1.9	1.9
128°	103.5	125.7	98.7	9.6	1.9	0.9
129°	96.9	113.2	93.0	7.8	1.9	1.9
130°	88.2	106.5	84.3	6.9	1.9	1.9
131°	82.2	100.6	76.5	5.7	0.9	1.9
132°	74.4	91.9	70.6	4.8	3.0	1.9
133°	60.9	82.2	52.2	4.8	3.0	1.9
134°	49.3	76.5	33.9	3.9	1.9	1.9



TEST NUMBER: P571649  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	29.1	60.9	22.2	3.0	1.9	1.9
136°	14.4	35.7	10.6	3.0	3.0	3.0
137°	10.6	22.2	8.7	3.0	3.0	1.9
138°	9.6	13.5	9.6	3.0	3.9	3.0
139°	7.8	10.6	8.7	3.0	3.9	3.0
140°	6.9	8.7	5.7	3.9	3.0	3.0
141°	5.7	7.8	4.8	3.0	3.9	3.0
142°	4.8	6.9	4.8	3.9	3.9	3.9
143°	3.9	5.7	4.8	3.9	3.9	3.9
144°	4.8	4.8	4.8	4.8	4.8	3.9
145°	4.8	3.9	3.9	4.8	3.9	4.8
146°	4.8	5.7	4.8	4.8	5.7	4.8
147°	4.8	4.8	5.7	5.7	5.7	4.8
148°	4.8	5.7	6.9	5.7	4.8	5.7
149°	4.8	5.7	5.7	5.7	5.7	5.7
150°	5.7	6.9	5.7	6.9	6.9	6.9
151°	6.9	5.7	6.9	6.9	6.9	6.9
152°	6.9	6.9	6.9	7.8	6.9	5.7
153°	6.9	5.7	6.9	7.8	7.8	7.8
154°	6.9	7.8	7.8	6.9	6.9	7.8
155°	6.9	7.8	7.8	7.8	7.8	7.8
156°	6.9	8.7	7.8	8.7	8.7	7.8
157°	7.8	8.7	9.6	8.7	8.7	8.7
158°	8.7	7.8	7.8	8.7	9.6	8.7
159°	8.7	8.7	7.8	8.7	9.6	9.6
160°	7.8	8.7	9.6	9.6	9.6	9.6
161°	9.6	9.6	9.6	9.6	9.6	9.6
162°	8.7	8.7	9.6	10.6	10.6	10.6
163°	9.6	10.6	10.6	10.6	10.6	10.6
164°	9.6	9.6	10.6	10.6	11.7	11.7
165°	8.7	10.6	11.7	11.7	11.7	12.6
166°	10.6	10.6	11.7	11.7	12.6	11.7
167°	10.6	11.7	11.7	12.6	12.6	12.6
168°	11.7	11.7	12.6	12.6	13.5	12.6
169°	12.6	12.6	13.5	13.5	13.5	13.5
170°	12.6	12.6	12.6	12.6	13.5	13.5
171°	12.6	13.5	13.5	12.6	13.5	14.4
172°	12.6	14.4	13.5	13.5	13.5	14.4
173°	13.5	14.4	13.5	14.4	13.5	15.6
174°	13.5	14.4	14.4	14.4	14.4	14.4
175°	14.4	14.4	14.4	14.4	14.4	15.6
176°	14.4	14.4	13.5	14.4	15.6	14.4
177°	13.5	14.4	15.6	14.4	14.4	15.6
178°	14.4	15.6	15.6	15.6	14.4	14.4
179°	15.6	15.6	14.4	14.4	15.6	15.6



TEST NUMBER: P571649  
CATALOG NUMBER: 8ST2L8040R

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	15.2	15.2	15.2	15.2	15.2	15.2

(END OF REPORT)