

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: P571650

Luminaire Tested: **8ST2L80SC3-3500K**

Issue Date: 3/18/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P571650  
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: 8ST2L80SC3-3500K  
Description: 8 FOOT ST2 STIPLIGHT WITH 3500K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

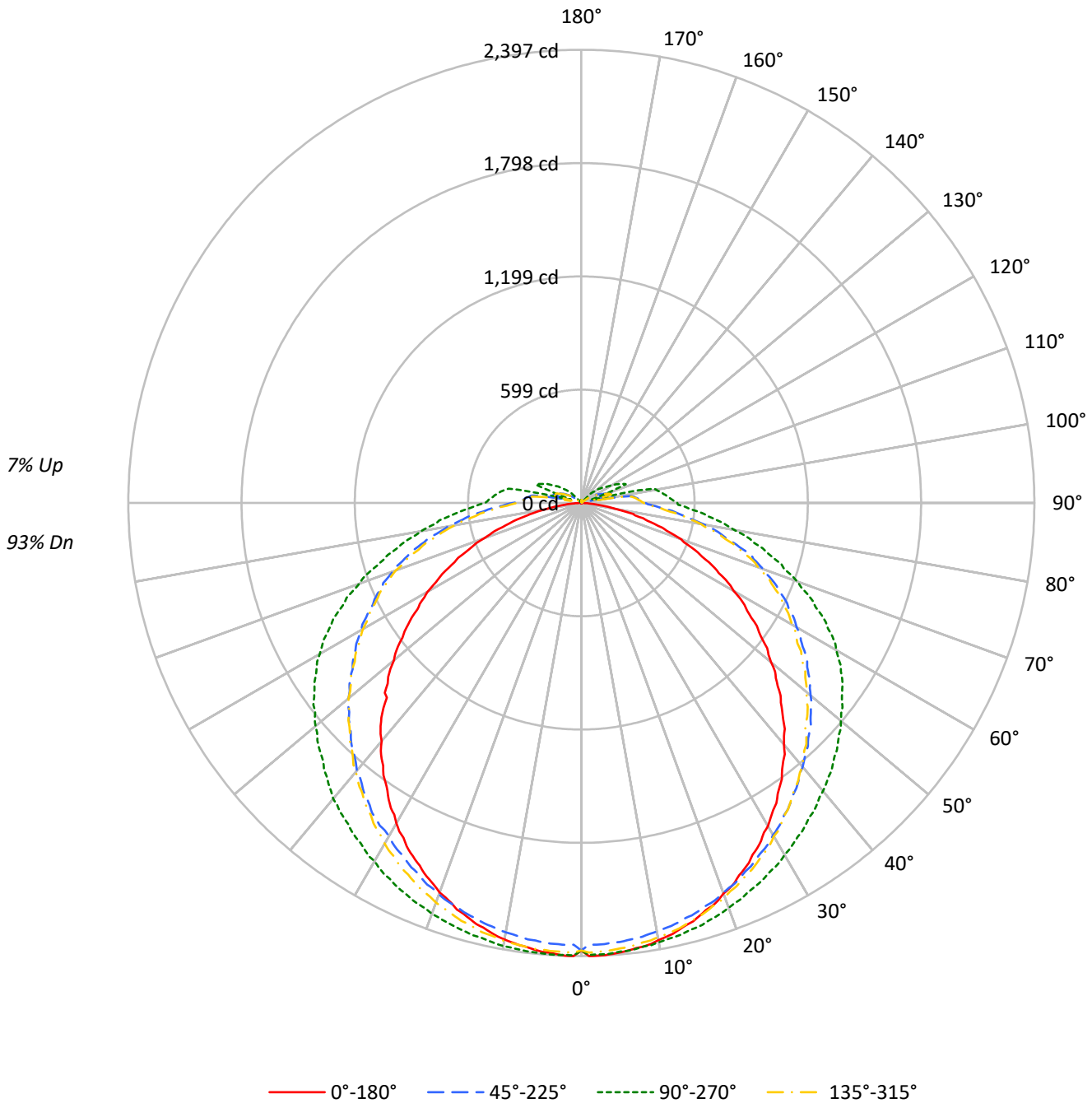
Lumens per Lamp: N/A  
Luminaire Lumens: 8678.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.29m x L: 8m x H: 0.21m)  
CIE Type: Direct

Input Watts (W): 76.9  
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°	1015	1015	1015	1015
5°	1024	964	1023	968
10°	1017	912	1015	920
15°	1009	867	1004	875
20°	994	825	990	837
25°	981	788	972	802
30°	963	753	954	767
35°	940	723	928	739
40°	913	696	901	714
45°	882	670	860	683
50°	848	645	837	661
55°	817	624	806	637
60°	763	596	771	612
65°	717	562	711	580
70°	658	514	642	529
75°	548	460	561	479
80°	411	402	413	421
85°	235	349	247	362



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.1	2.6
10°-20°	645.0	7.4
20°-30°	988.2	11.4
30°-40°	1218.0	14.0
40°-50°	1314.9	15.2
50°-60°	1281.1	14.8
60°-70°	1121.8	12.9
70°-80°	833.9	9.6
80°-90°	483.7	5.6
90°-100°	277.7	3.2
100°-110°	102.2	1.2
110°-120°	105.4	1.2
120°-130°	55.7	0.6
130°-140°	15.1	0.2
140°-150°	3.2	0.0
150°-160°	3.6	0.0
160°-170°	3.1	0.0
170°-180°	1.4	0.0
0°-30°	1857.4	21.4
0°-40°	3075.4	35.4
0°-60°	5671.4	65.4
0°-90°	8110.8	93.5
90°-120°	485.2	5.6
90°-150°	559.1	6.4
90°-180°	567.0	6.5
0°-180°	8678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2368	2368	2368	2368	2368	
5°	2387	2382	2384	2392	2387	227
15°	2290	2327	2278	2350	2290	645
25°	2100	2221	2081	2260	2100	966
35°	1830	2073	1806	2120	1830	1144
45°	1493	1895	1456	1931	1493	1154
55°	1134	1687	1119	1723	1134	1007
65°	746	1403	740	1448	746	736
75°	363	1017	372	1060	363	392
85°	62	650	65	675	62	77
90°	4	508	6	510	4	4
95°	2	451	3	461	2	2
105°	2	68	2	68	2	2
115°	1	240	3	237	1	1
125°	1	145	2	153	1	1
135°	2	69	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°	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6
1°	2397.4	2284.0	2337.2	2403.4	2391.6	2351.2	2378.7	2376.6	2397.4	2284.0	2337.2
2°	2396.5	2283.1	2338.4	2402.3	2389.5	2348.2	2375.7	2375.7	2396.5	2283.1	2339.3
3°	2395.5	2282.1	2336.3	2401.4	2390.6	2345.1	2374.8	2373.8	2391.6	2281.2	2337.2
4°	2390.6	2279.1	2331.4	2399.5	2387.6	2344.2	2370.8	2369.9	2385.5	2277.2	2336.3
5°	2386.6	2275.2	2331.4	2396.5	2381.7	2341.2	2365.0	2364.0	2383.6	2273.3	2332.3
6°	2380.6	2272.3	2325.5	2391.6	2381.7	2334.4	2361.9	2361.0	2375.7	2271.2	2327.4
7°	2372.9	2265.3	2321.6	2387.6	2376.6	2332.3	2356.1	2354.0	2366.8	2263.5	2325.5
8°	2368.9	2259.5	2316.7	2383.6	2368.9	2325.5	2347.2	2343.3	2361.9	2254.6	2318.5
9°	2361.0	2252.5	2307.8	2376.6	2367.8	2318.5	2343.3	2336.3	2353.1	2249.5	2310.6
10°	2348.2	2242.7	2301.8	2372.9	2360.0	2314.6	2333.4	2330.4	2344.2	2239.7	2306.7
11°	2338.4	2236.7	2294.0	2366.8	2353.1	2307.8	2326.5	2317.6	2335.3	2228.9	2297.8
12°	2330.4	2224.0	2288.0	2358.0	2348.2	2298.9	2317.6	2302.9	2320.6	2214.0	2288.9
13°	2314.6	2210.1	2277.2	2353.1	2343.3	2291.9	2309.7	2296.8	2305.7	2207.2	2282.1
14°	2299.9	2203.3	2264.4	2342.3	2333.4	2284.0	2295.9	2281.2	2295.9	2200.3	2270.2
15°	2290.1	2188.4	2258.4	2330.4	2327.4	2274.2	2284.0	2264.4	2278.2	2185.5	2261.4
16°	2271.2	2179.5	2246.7	2323.4	2321.6	2264.4	2274.2	2254.6	2260.4	2168.8	2252.5
17°	2252.5	2166.7	2231.8	2311.8	2308.7	2256.5	2260.4	2238.7	2249.5	2157.8	2237.8
18°	2241.8	2150.1	2224.0	2297.8	2300.8	2243.6	2244.6	2218.0	2225.9	2145.0	2227.8
19°	2224.0	2134.2	2212.1	2295.0	2291.0	2234.8	2234.8	2206.1	2207.2	2125.4	2218.0
20°	2199.3	2122.3	2194.4	2280.1	2278.2	2222.9	2218.0	2190.4	2192.3	2108.6	2203.3
21°	2184.6	2102.7	2180.6	2268.4	2266.3	2210.1	2200.3	2164.8	2167.8	2096.7	2186.5
22°	2165.7	2084.0	2169.7	2259.5	2258.4	2200.3	2188.4	2150.1	2147.1	2079.0	2177.6
23°	2138.2	2071.2	2152.0	2242.7	2242.7	2185.5	2168.8	2131.2	2128.4	2055.4	2158.9
24°	2120.5	2047.4	2133.3	2228.9	2230.8	2172.7	2152.0	2107.6	2100.6	2042.5	2139.1
25°	2099.7	2026.7	2121.4	2218.9	2221.0	2160.8	2138.2	2093.9	2081.0	2020.8	2127.2
26°	2069.1	2012.9	2100.6	2199.3	2208.2	2144.0	2119.5	2065.2	2060.3	1995.2	2108.6
27°	2049.5	1987.3	2082.9	2183.5	2192.3	2137.2	2096.7	2041.6	2037.6	1980.5	2089.0
28°	2024.8	1964.6	2069.1	2172.7	2181.6	2123.5	2082.9	2023.9	2005.0	1958.8	2077.1
29°	1993.3	1949.0	2052.4	2152.0	2169.7	2110.6	2063.3	1994.2	1986.3	1931.2	2058.4
30°	1974.4	1926.1	2028.8	2135.2	2150.1	2089.9	2036.7	1969.5	1956.7	1913.5	2035.6
31°	1944.1	1898.6	2012.9	2113.5	2138.2	2079.0	2022.9	1949.9	1923.3	1890.7	2019.9
32°	1916.3	1879.9	1995.2	2100.6	2121.4	2061.2	1997.3	1917.3	1902.6	1862.2	2012.0
33°	1894.6	1862.2	1969.5	2085.0	2103.7	2041.6	1971.6	1892.8	1872.0	1850.3	1993.3
34°	1857.3	1825.6	1953.9	2068.2	2092.9	2029.7	1955.8	1870.1	1834.5	1817.9	1978.4
35°	1829.6	1806.0	1932.2	2050.5	2073.1	2011.0	1931.2	1835.6	1806.0	1792.2	1952.9
36°	1805.0	1780.3	1906.5	2032.7	2053.5	1989.3	1901.6	1807.9	1781.3	1773.5	1930.1
37°	1764.5	1746.7	1889.7	2017.8	2042.5	1977.5	1885.8	1778.4	1741.8	1740.9	1914.4
38°	1735.0	1727.1	1866.2	1999.2	2024.8	1959.7	1863.1	1756.7	1717.3	1714.3	1885.8
39°	1709.4	1698.4	1838.4	1975.6	2002.2	1942.0	1837.5	1719.2	1686.7	1694.5	1864.1
40°	1667.9	1663.0	1821.8	1962.7	1989.3	1929.2	1819.7	1689.6	1645.2	1659.0	1847.3
41°	1633.5	1643.4	1797.1	1940.1	1972.6	1905.6	1789.2	1666.0	1619.6	1630.5	1818.8
42°	1608.8	1614.7	1776.4	1915.4	1952.9	1885.8	1762.6	1626.6	1587.1	1609.8	1795.0
43°	1565.4	1592.0	1757.7	1900.7	1940.1	1871.1	1745.8	1596.9	1551.7	1574.3	1777.3
44°	1529.0	1563.6	1728.1	1879.0	1916.3	1844.5	1713.3	1572.4	1507.3	1546.8	1754.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1493.4	1526.0	1707.3	1852.4	1894.6	1822.8	1674.9	1526.0	1456.0	1508.3	1725.0
46°	1465.8	1504.3	1687.7	1836.5	1880.9	1797.1	1656.2	1503.4	1446.2	1484.5	1699.6
47°	1420.6	1471.9	1658.1	1814.8	1856.2	1781.3	1636.4	1478.7	1401.9	1456.0	1682.8
48°	1385.1	1435.3	1634.5	1788.2	1833.5	1759.6	1610.7	1438.3	1375.1	1433.4	1652.2
49°	1358.5	1412.6	1613.7	1766.5	1818.8	1743.9	1577.3	1405.7	1339.6	1394.9	1634.5
50°	1311.1	1380.2	1583.2	1750.7	1792.2	1716.2	1556.6	1382.1	1294.3	1364.3	1607.9
51°	1274.5	1341.7	1555.6	1726.2	1769.6	1694.5	1531.9	1348.5	1266.8	1334.7	1577.3
52°	1247.0	1311.1	1536.8	1698.4	1753.7	1675.8	1503.4	1308.1	1232.3	1310.2	1556.6
53°	1199.6	1285.5	1505.3	1680.7	1726.2	1656.2	1483.6	1286.4	1184.9	1271.7	1530.0
54°	1161.3	1247.0	1476.8	1656.2	1705.4	1627.5	1450.2	1251.9	1156.3	1249.1	1496.4
55°	1133.6	1222.5	1457.9	1626.6	1686.7	1608.8	1422.4	1212.5	1118.9	1216.4	1476.8
56°	1085.3	1191.9	1431.3	1609.8	1665.1	1587.1	1402.8	1187.9	1081.4	1177.9	1452.1
57°	1045.9	1159.3	1396.8	1584.1	1637.3	1558.5	1362.5	1156.3	1034.0	1129.7	1424.5
58°	1017.4	1119.8	1370.2	1553.6	1617.7	1533.9	1341.7	1115.9	1007.4	1121.9	1404.7
59°	979.9	1096.3	1350.6	1533.9	1585.1	1516.2	1321.9	1092.3	970.1	1083.4	1372.3
60°	930.6	1062.7	1315.1	1508.3	1556.6	1483.6	1288.5	1060.8	940.4	1052.9	1343.6
61°	901.9	1039.1	1293.4	1486.6	1536.8	1459.0	1261.9	1020.2	894.0	1029.1	1324.0
62°	863.5	1001.6	1266.8	1449.0	1504.3	1437.3	1240.2	996.7	855.7	990.8	1290.4
63°	815.2	969.1	1232.3	1419.6	1464.9	1399.8	1205.7	967.0	827.1	958.2	1262.8
64°	785.7	945.3	1211.5	1378.1	1439.2	1370.2	1181.9	927.6	778.8	935.5	1227.4
65°	746.3	906.9	1181.9	1353.4	1402.8	1345.7	1160.2	905.9	740.3	902.9	1207.6
66°	699.0	875.3	1144.6	1320.0	1358.5	1312.1	1122.9	872.3	712.7	864.6	1181.0
67°	669.3	851.8	1121.9	1282.5	1330.8	1269.6	1093.2	842.0	663.5	842.0	1144.6
68°	630.9	813.3	1089.3	1254.9	1293.4	1243.0	1071.5	802.3	626.0	811.4	1130.8
69°	582.6	783.7	1049.9	1209.6	1245.1	1206.6	1030.2	778.8	596.3	771.8	1093.2
70°	562.9	760.1	1025.1	1170.2	1215.5	1160.2	995.7	748.2	549.2	749.1	1060.8
71°	514.6	722.5	990.8	1141.5	1177.0	1131.7	971.9	724.6	511.6	719.7	1037.0
72°	476.2	692.9	958.2	1092.3	1126.8	1092.3	936.5	687.1	483.0	682.2	995.7
73°	447.5	671.4	940.4	1051.9	1106.1	1041.0	894.0	657.5	435.8	660.5	962.1
74°	400.3	640.9	886.3	1022.3	1056.8	1011.4	866.5	635.8	399.2	630.9	936.5
75°	362.8	605.2	848.7	971.9	1017.4	972.9	829.1	601.2	371.6	595.4	894.0
76°	336.2	575.8	799.5	933.5	988.7	923.6	782.7	571.8	337.1	565.8	856.7
77°	290.7	552.0	770.8	904.0	939.5	895.2	754.0	549.2	291.8	544.1	829.1
78°	281.8	511.6	741.4	852.7	910.8	855.7	716.7	511.6	266.2	515.6	782.7
79°	231.7	479.2	704.8	814.2	869.5	818.2	669.3	479.2	233.6	491.8	744.2
80°	191.3	453.5	659.5	786.7	822.1	789.7	642.7	446.5	192.2	452.4	716.7
81°	160.7	410.1	619.2	748.2	784.6	743.3	604.3	421.8	169.6	421.8	670.3
82°	138.1	376.6	570.9	700.8	758.0	706.9	556.9	379.6	140.9	397.3	634.8
83°	110.4	350.9	543.1	673.3	711.8	681.2	538.2	353.9	106.4	355.8	606.3
84°	78.9	308.6	507.7	646.7	675.2	637.8	492.9	320.3	87.7	323.4	569.7
85°	62.1	284.9	482.0	609.2	649.7	600.3	449.6	280.9	65.1	297.7	522.4
86°	38.5	253.4	438.6	565.8	606.3	574.6	425.8	248.5	41.3	258.3	494.8
87°	23.6	215.8	405.2	531.2	571.8	530.3	391.3	223.7	32.4	228.6	459.4
88°	15.8	195.3	380.5	490.9	547.1	499.7	359.8	188.3	16.8	206.0	418.1
89°	7.0	169.6	351.8	471.3	511.6	476.2	342.0	163.6	8.9	172.4	394.3



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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	159.8	338.1	461.3	507.7	450.5	329.2	153.8	5.8	151.9	361.8
91°	3.0	152.8	330.3	453.5	492.9	443.5	320.3	147.9	4.9	145.8	328.3
92°	4.0	143.0	323.4	441.6	482.0	434.7	313.5	140.9	3.0	135.1	319.4
93°	4.0	136.0	309.6	431.8	469.2	428.8	303.5	136.0	4.0	130.2	309.6
94°	3.0	131.1	302.6	420.9	461.3	416.9	294.7	127.2	4.0	124.1	302.6
95°	1.9	89.8	294.7	414.1	451.4	410.1	289.8	83.8	3.0	101.5	297.7
96°	3.0	53.2	284.9	404.1	439.7	401.3	279.0	63.0	3.0	62.1	285.8
97°	3.0	47.4	280.0	392.4	431.8	390.3	270.2	52.3	3.0	55.3	276.0
98°	3.0	50.2	264.1	385.4	423.0	383.5	255.2	60.2	3.0	56.2	271.1
99°	1.9	71.9	184.3	373.5	410.1	374.7	177.5	71.9	3.0	70.0	250.3
100°	1.9	70.9	117.3	362.8	402.2	361.8	84.7	69.0	1.9	68.1	195.3
101°	1.9	67.0	58.1	328.3	392.4	350.0	68.1	65.1	1.9	64.1	141.9
102°	1.9	63.0	55.3	225.8	338.1	289.8	61.1	61.1	3.0	61.1	77.9
103°	1.9	58.1	50.2	127.2	276.0	183.4	57.2	57.2	3.0	58.1	70.9
104°	1.9	55.3	53.2	58.1	158.7	88.7	61.1	53.2	3.0	55.3	68.1
105°	1.9	50.2	96.6	48.3	68.1	60.2	112.4	51.3	1.9	50.2	79.8
106°	1.9	48.3	140.9	46.4	60.2	58.1	164.7	47.4	1.9	47.4	120.4
107°	0.9	44.3	171.5	44.3	57.2	54.1	161.7	43.4	1.9	42.4	154.7
108°	1.9	39.4	163.6	54.1	56.2	51.3	156.8	41.3	1.9	39.4	159.8
109°	0.9	36.4	158.7	91.7	55.3	70.9	149.8	37.5	1.9	35.5	152.8
110°	1.9	33.6	148.8	155.8	91.7	140.0	143.9	32.4	1.9	30.6	147.9
111°	1.9	26.6	139.0	230.7	152.8	189.2	132.1	29.6	1.9	19.8	139.0
112°	1.9	18.7	132.1	228.6	204.1	225.8	123.2	17.7	0.9	12.8	134.1
113°	1.9	8.9	122.2	219.8	255.2	220.7	117.3	7.9	1.9	7.9	129.2
114°	1.9	5.8	115.3	211.9	246.4	210.0	109.4	7.0	1.9	7.0	124.1
115°	0.9	5.8	110.4	205.1	240.5	201.1	103.6	5.8	3.0	5.8	116.4
116°	0.9	4.9	105.5	193.2	230.7	189.2	101.5	4.9	1.9	4.9	111.3
117°	0.9	3.0	98.7	182.4	217.9	181.3	96.6	4.0	1.9	3.0	106.4
118°	1.9	3.0	95.6	173.6	210.9	171.5	91.7	3.0	1.9	3.0	97.5
119°	0.9	3.0	89.8	161.7	198.1	163.6	86.8	3.0	1.9	3.0	94.7
120°	0.9	3.0	81.9	154.7	185.3	154.7	82.8	3.0	1.9	3.0	86.8
121°	1.9	3.0	77.0	144.9	176.4	143.9	75.8	3.0	1.9	3.0	80.7
122°	1.9	1.9	73.0	140.0	166.6	138.1	70.9	3.0	1.9	3.0	75.8
123°	0.9	1.9	65.1	133.0	156.8	133.0	66.0	0.9	1.9	3.0	69.0
124°	0.9	1.9	60.2	125.3	151.9	125.3	58.1	3.0	3.0	3.0	62.1
125°	0.9	1.9	56.2	120.4	144.9	119.2	53.2	1.9	1.9	1.9	59.2
126°	1.9	0.9	41.3	113.4	135.1	114.3	40.4	3.0	1.9	1.9	45.3
127°	1.9	3.0	24.7	106.4	131.1	107.5	19.8	1.9	1.9	1.9	29.6
128°	0.9	1.9	13.8	101.5	122.2	100.6	13.8	1.9	1.9	1.9	18.7
129°	1.9	1.9	7.9	92.6	118.3	96.6	8.9	1.9	1.9	3.0	9.8
130°	1.9	1.9	7.0	84.7	109.4	88.7	7.0	1.9	1.9	3.0	9.8
131°	1.9	3.0	7.0	79.8	101.5	80.7	7.0	3.0	3.0	1.9	7.9
132°	1.9	1.9	4.9	70.9	90.7	75.8	5.8	3.0	3.0	3.0	5.8
133°	1.9	1.9	4.0	64.1	88.7	69.0	4.9	4.0	3.0	3.0	4.9
134°	1.9	3.0	3.0	47.4	78.9	50.2	4.0	1.9	1.9	3.0	4.9





TEST NUMBER: P571650  
 CATALOG NUMBER: 8ST2L80SC3-3500K

**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	36.4	69.0	36.4	3.0	3.0	3.0	3.0	4.0
136°	3.0	1.9	4.0	12.8	55.3	17.7	3.0	3.0	1.9	3.0	4.0
137°	1.9	1.9	3.0	8.9	27.5	10.8	3.0	3.0	3.0	3.0	4.0
138°	3.0	3.0	3.0	7.9	14.7	9.8	3.0	3.0	3.0	3.0	4.0
139°	3.0	3.0	3.0	7.9	10.8	7.9	4.0	3.0	3.0	4.0	3.0
140°	3.0	3.0	4.0	5.8	8.9	7.0	4.9	4.0	4.0	3.0	4.0
141°	3.0	4.0	4.0	4.9	7.9	5.8	4.0	4.0	4.0	4.9	4.9
142°	4.0	4.0	4.0	4.9	7.9	5.8	4.0	4.0	3.0	4.9	4.9
143°	4.0	4.0	4.0	4.0	5.8	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	5.8	5.8	4.9
147°	4.9	4.9	4.9	4.9	5.8	4.9	5.8	4.9	4.9	4.9	4.9
148°	5.8	5.8	5.8	5.8	5.8	4.9	4.9	4.9	5.8	4.9	4.9
149°	5.8	5.8	7.0	7.0	7.0	5.8	4.9	4.9	5.8	5.8	5.8
150°	7.0	7.0	5.8	5.8	5.8	5.8	5.8	7.0	5.8	5.8	5.8
151°	7.0	7.0	5.8	7.0	7.0	5.8	7.0	7.0	7.0	5.8	5.8
152°	5.8	7.0	7.0	7.0	7.0	5.8	7.0	7.0	7.0	7.0	7.0
153°	7.9	7.9	7.0	7.0	7.9	7.0	7.0	5.8	7.0	7.0	7.0
154°	7.9	7.9	7.9	7.0	7.9	7.0	5.8	7.0	7.0	7.0	7.9
155°	7.9	8.9	8.9	7.0	7.9	7.0	7.0	7.9	7.9	7.9	7.0
156°	7.9	7.9	8.9	8.9	7.9	7.9	7.0	7.9	7.9	7.9	7.0
157°	8.9	8.9	8.9	8.9	8.9	7.0	7.9	8.9	7.9	7.9	7.9
158°	8.9	9.8	8.9	8.9	9.8	7.9	8.9	7.9	8.9	8.9	7.9
159°	9.8	9.8	8.9	9.8	9.8	8.9	8.9	8.9	8.9	8.9	8.9
160°	9.8	9.8	10.8	8.9	9.8	7.9	8.9	8.9	9.8	8.9	8.9
161°	9.8	10.8	9.8	10.8	9.8	8.9	9.8	8.9	9.8	9.8	8.9
162°	10.8	10.8	10.8	10.8	10.8	8.9	9.8	8.9	9.8	8.9	8.9
163°	10.8	10.8	11.9	10.8	10.8	9.8	9.8	10.8	9.8	9.8	9.8
164°	11.9	11.9	12.8	11.9	11.9	10.8	10.8	9.8	10.8	10.8	8.9
165°	12.8	11.9	12.8	12.8	10.8	9.8	10.8	10.8	10.8	10.8	10.8
166°	11.9	12.8	12.8	12.8	11.9	10.8	10.8	11.9	10.8	10.8	9.8
167°	12.8	12.8	13.8	12.8	12.8	10.8	12.8	11.9	10.8	11.9	11.9
168°	12.8	12.8	13.8	13.8	12.8	10.8	12.8	11.9	11.9	11.9	11.9
169°	13.8	14.7	14.7	14.7	13.8	11.9	11.9	12.8	12.8	11.9	11.9
170°	13.8	13.8	15.8	14.7	13.8	12.8	13.8	12.8	13.8	12.8	11.9
171°	14.7	14.7	15.8	14.7	14.7	13.8	12.8	12.8	12.8	13.8	12.8
172°	14.7	13.8	14.7	14.7	13.8	14.7	13.8	13.8	12.8	12.8	12.8
173°	15.8	15.8	15.8	15.8	13.8	14.7	13.8	14.7	13.8	13.8	13.8
174°	14.7	15.8	15.8	15.8	14.7	14.7	14.7	13.8	13.8	13.8	13.8
175°	15.8	15.8	15.8	15.8	15.8	14.7	14.7	14.7	13.8	14.7	14.7
176°	14.7	15.8	14.7	14.7	14.7	14.7	14.7	14.7	13.8	14.7	13.8
177°	15.8	15.8	15.8	15.8	15.8	14.7	13.8	13.8	14.7	14.7	13.8
178°	14.7	14.7	15.8	15.8	15.8	13.8	14.7	14.7	14.7	14.7	13.8
179°	15.8	15.8	14.7	15.8	15.8	15.8	15.8	15.8	15.8	15.8	14.7



TEST NUMBER: P571650  
CATALOG NUMBER: 8ST2L80SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5



TEST NUMBER: P571650  
 CATALOG NUMBER: 8ST2L80SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2367.6	2367.6	2367.6	2367.6	2367.6	2367.6
1°	2404.4	2393.4	2351.2	2377.8	2378.7	2397.4
2°	2406.3	2391.6	2351.2	2377.8	2378.7	2396.5
3°	2404.4	2394.6	2352.1	2375.7	2377.8	2395.5
4°	2404.4	2393.4	2350.0	2375.7	2376.6	2390.6
5°	2403.4	2391.6	2348.2	2371.7	2371.7	2386.6
6°	2399.5	2390.6	2348.2	2371.7	2366.8	2380.6
7°	2395.5	2388.5	2344.2	2366.8	2362.9	2372.9
8°	2390.6	2384.6	2341.2	2361.0	2355.1	2368.9
9°	2388.5	2381.7	2336.3	2357.0	2346.1	2361.0
10°	2381.7	2379.7	2334.4	2352.1	2342.3	2348.2
11°	2374.8	2374.8	2328.4	2343.3	2332.3	2338.4
12°	2370.8	2366.8	2320.6	2335.3	2319.5	2330.4
13°	2364.0	2360.0	2317.6	2330.4	2310.6	2314.6
14°	2355.1	2358.0	2308.7	2319.5	2300.8	2299.9
15°	2349.1	2350.0	2299.9	2306.7	2286.1	2290.1
16°	2341.2	2344.2	2295.0	2299.9	2274.2	2271.2
17°	2333.4	2335.3	2287.0	2287.0	2261.4	2252.5
18°	2324.6	2328.4	2275.2	2272.3	2245.5	2241.8
19°	2312.7	2319.5	2272.3	2260.4	2234.8	2224.0
20°	2300.8	2312.7	2259.5	2249.5	2214.0	2199.3
21°	2288.0	2298.9	2248.6	2231.8	2195.4	2184.6
22°	2281.2	2291.0	2241.8	2218.9	2181.6	2165.7
23°	2265.3	2283.1	2225.9	2207.2	2157.8	2138.2
24°	2248.6	2269.3	2212.1	2187.4	2139.1	2120.5
25°	2238.7	2259.5	2205.2	2168.8	2122.3	2099.7
26°	2225.0	2247.6	2188.4	2155.9	2093.9	2069.1
27°	2206.1	2231.8	2172.7	2137.2	2074.0	2049.5
28°	2196.3	2222.9	2161.8	2115.6	2056.3	2024.8
29°	2182.5	2207.2	2146.1	2101.8	2026.7	1993.3
30°	2164.8	2188.4	2129.3	2081.0	2003.1	1974.4
31°	2155.0	2180.6	2110.6	2056.3	1983.5	1944.1
32°	2134.2	2163.8	2097.8	2039.5	1956.7	1916.3
33°	2116.5	2145.0	2084.0	2019.9	1939.0	1894.6
34°	2103.7	2134.2	2065.2	1991.2	1903.5	1857.3
35°	2081.0	2119.5	2054.4	1974.4	1875.0	1829.6
36°	2062.4	2099.7	2031.8	1952.9	1839.6	1805.0
37°	2048.4	2086.9	2012.9	1924.3	1817.9	1764.5
38°	2025.8	2073.1	2002.2	1905.6	1787.3	1735.0
39°	2007.1	2054.4	1989.3	1881.8	1748.8	1709.4
40°	1991.2	2042.5	1960.7	1855.2	1726.2	1667.9
41°	1967.6	2019.0	1946.9	1837.5	1695.6	1633.5
42°	1949.0	1999.2	1922.4	1806.9	1657.1	1608.8
43°	1933.1	1975.6	1905.6	1780.3	1632.4	1565.4
44°	1905.6	1960.7	1886.7	1762.6	1603.0	1529.0



TEST NUMBER: P571650  
 CATALOG NUMBER: 8ST2L80SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1885.8	1931.2	1861.2	1730.1	1564.5	1493.4
46°	1870.1	1914.4	1841.4	1705.4	1538.8	1465.8
47°	1846.3	1898.6	1824.7	1685.6	1507.3	1420.6
48°	1818.8	1879.0	1803.0	1653.2	1471.9	1385.1
49°	1803.0	1852.4	1774.5	1628.5	1431.3	1358.5
50°	1776.4	1836.5	1758.6	1607.9	1407.7	1311.1
51°	1750.7	1814.8	1735.0	1573.4	1374.1	1274.5
52°	1733.9	1787.3	1706.4	1546.8	1332.8	1247.0
53°	1707.3	1775.4	1690.7	1526.0	1306.2	1199.6
54°	1678.8	1747.9	1666.0	1497.3	1274.5	1161.3
55°	1660.1	1723.2	1636.4	1463.9	1233.2	1133.6
56°	1637.3	1705.4	1619.6	1443.2	1207.6	1085.3
57°	1605.8	1674.9	1596.0	1415.7	1175.1	1045.9
58°	1586.2	1651.3	1565.4	1381.1	1134.6	1017.4
59°	1563.6	1630.5	1553.6	1360.4	1109.1	979.9
60°	1535.8	1597.9	1523.0	1333.8	1076.5	930.6
61°	1518.1	1570.3	1495.5	1299.3	1052.9	901.9
62°	1479.6	1545.6	1476.8	1271.7	1013.4	863.5
63°	1449.0	1507.3	1441.3	1251.9	978.0	815.2
64°	1410.7	1473.8	1410.7	1216.4	947.4	785.7
65°	1385.1	1448.1	1387.0	1188.9	922.7	746.3
66°	1351.5	1405.7	1347.5	1167.2	883.3	699.0
67°	1308.1	1365.3	1313.0	1137.6	852.7	669.3
68°	1280.6	1339.6	1287.4	1099.1	828.0	630.9
69°	1245.1	1292.5	1241.1	1075.5	788.6	582.6
70°	1196.8	1251.0	1203.6	1044.0	758.0	562.9
71°	1166.3	1220.4	1175.1	1001.6	733.5	514.6
72°	1127.8	1179.1	1137.6	975.9	695.9	476.2
73°	1087.4	1128.7	1086.3	942.3	663.5	447.5
74°	1057.8	1089.3	1055.7	897.0	641.8	400.3
75°	1007.4	1059.7	1016.3	869.5	604.3	362.8
76°	969.1	1009.5	966.1	832.9	573.7	336.2
77°	939.5	978.9	936.5	784.6	552.0	290.7
78°	889.1	939.5	897.0	756.1	522.4	281.8
79°	848.7	892.1	848.7	717.6	484.1	231.7
80°	819.1	861.6	820.3	679.2	458.4	191.3
81°	770.8	823.1	781.8	650.7	426.9	160.7
82°	732.4	775.7	733.5	602.4	384.5	138.1
83°	704.8	757.1	705.8	564.8	356.9	110.4
84°	658.6	710.8	670.3	537.3	324.3	78.9
85°	622.9	675.2	635.8	489.9	298.6	62.1
86°	596.3	639.7	592.4	463.3	258.3	38.5
87°	561.8	605.2	567.8	429.8	226.8	23.6
88°	519.5	569.7	534.3	391.3	191.3	15.8
89°	494.8	544.1	508.6	368.6	172.4	7.0



TEST NUMBER: P571650  
 CATALOG NUMBER: 8ST2L80SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	463.3	509.7	467.3	338.1	152.8	4.0
91°	445.6	497.9	449.6	322.4	147.0	3.0
92°	438.6	490.9	437.7	313.5	137.0	4.0
93°	423.9	477.1	430.9	307.5	131.1	4.0
94°	416.0	468.2	419.9	296.8	116.4	3.0
95°	410.1	461.3	408.1	287.9	84.7	1.9
96°	402.2	449.6	401.3	281.8	51.3	3.0
97°	393.3	438.6	392.4	274.1	46.4	3.0
98°	386.4	430.9	379.6	242.4	56.2	3.0
99°	374.7	418.1	373.5	194.1	68.1	1.9
100°	356.9	407.1	362.8	111.3	64.1	1.9
101°	320.3	392.4	320.3	62.1	63.0	1.9
102°	200.2	330.3	263.2	58.1	60.2	1.9
103°	131.1	217.0	147.9	54.1	56.2	1.9
104°	78.9	143.0	63.0	79.8	53.2	1.9
105°	65.1	68.1	55.3	116.4	49.2	1.9
106°	65.1	62.1	51.3	166.6	49.2	1.9
107°	62.1	60.2	48.3	163.6	43.4	0.9
108°	60.2	58.1	55.3	161.7	37.5	1.9
109°	78.9	77.9	112.4	149.8	34.5	0.9
110°	129.2	119.2	176.4	143.0	29.6	1.9
111°	190.2	185.3	219.8	139.0	16.8	1.9
112°	226.8	258.3	221.9	132.1	10.8	1.9
113°	219.8	258.3	213.0	125.3	7.9	1.9
114°	213.0	248.5	206.0	120.4	4.9	1.9
115°	204.1	236.6	199.2	112.4	4.9	0.9
116°	198.1	230.7	189.2	106.4	4.0	0.9
117°	188.3	219.8	183.4	101.5	4.0	0.9
118°	181.3	211.9	176.4	92.6	3.0	1.9
119°	174.5	206.0	167.5	87.7	3.0	0.9
120°	166.6	195.3	160.7	83.8	3.0	0.9
121°	158.7	185.3	153.8	75.8	3.0	1.9
122°	151.9	177.5	143.9	70.0	3.0	1.9
123°	143.9	167.5	138.1	65.1	1.9	0.9
124°	134.1	158.7	130.2	59.2	1.9	0.9
125°	129.2	152.8	124.1	45.3	3.0	0.9
126°	119.2	143.0	118.3	34.5	1.9	1.9
127°	111.3	133.0	108.5	17.7	1.9	1.9
128°	105.5	128.1	100.6	9.8	1.9	0.9
129°	98.7	115.3	94.7	7.9	1.9	1.9
130°	89.8	108.5	85.8	7.0	1.9	1.9
131°	83.8	102.4	77.9	5.8	0.9	1.9
132°	75.8	93.6	71.9	4.9	3.0	1.9
133°	62.1	83.8	53.2	4.9	3.0	1.9
134°	50.2	77.9	34.5	4.0	1.9	1.9



TEST NUMBER: P571650  
 CATALOG NUMBER: 8ST2L80SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	29.6	62.1	22.6	3.0	1.9	1.9
136°	14.7	36.4	10.8	3.0	3.0	3.0
137°	10.8	22.6	8.9	3.0	3.0	1.9
138°	9.8	13.8	9.8	3.0	4.0	3.0
139°	7.9	10.8	8.9	3.0	4.0	3.0
140°	7.0	8.9	5.8	4.0	3.0	3.0
141°	5.8	7.9	4.9	3.0	4.0	3.0
142°	4.9	7.0	4.9	4.0	4.0	4.0
143°	4.0	5.8	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	5.8	4.9	4.9	5.8	4.9
147°	4.9	4.9	5.8	5.8	5.8	4.9
148°	4.9	5.8	7.0	5.8	4.9	5.8
149°	4.9	5.8	5.8	5.8	5.8	5.8
150°	5.8	7.0	5.8	7.0	7.0	7.0
151°	7.0	5.8	7.0	7.0	7.0	7.0
152°	7.0	7.0	7.0	7.9	7.0	5.8
153°	7.0	5.8	7.0	7.9	7.9	7.9
154°	7.0	7.9	7.9	7.0	7.0	7.9
155°	7.0	7.9	7.9	7.9	7.9	7.9
156°	7.0	8.9	7.9	8.9	8.9	7.9
157°	7.9	8.9	9.8	8.9	8.9	8.9
158°	8.9	7.9	7.9	8.9	9.8	8.9
159°	8.9	8.9	7.9	8.9	9.8	9.8
160°	7.9	8.9	9.8	9.8	9.8	9.8
161°	9.8	9.8	9.8	9.8	9.8	9.8
162°	8.9	8.9	9.8	10.8	10.8	10.8
163°	9.8	10.8	10.8	10.8	10.8	10.8
164°	9.8	9.8	10.8	10.8	11.9	11.9
165°	8.9	10.8	11.9	11.9	11.9	12.8
166°	10.8	10.8	11.9	11.9	12.8	11.9
167°	10.8	11.9	11.9	12.8	12.8	12.8
168°	11.9	11.9	12.8	12.8	13.8	12.8
169°	12.8	12.8	13.8	13.8	13.8	13.8
170°	12.8	12.8	12.8	12.8	13.8	13.8
171°	12.8	13.8	13.8	12.8	13.8	14.7
172°	12.8	14.7	13.8	13.8	13.8	14.7
173°	13.8	14.7	13.8	14.7	13.8	15.8
174°	13.8	14.7	14.7	14.7	14.7	14.7
175°	14.7	14.7	14.7	14.7	14.7	15.8
176°	14.7	14.7	13.8	14.7	15.8	14.7
177°	13.8	14.7	15.8	14.7	14.7	15.8
178°	14.7	15.8	15.8	15.8	14.7	14.7
179°	15.8	15.8	14.7	14.7	15.8	15.8



TEST NUMBER: P571650  
CATALOG NUMBER: 8ST2L80SC3-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	15.5	15.5	15.5	15.5	15.5	15.5

(END OF REPORT)