

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P306974

Luminaire Tested: **8ST2L8050R**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P306974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-713-2)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ST2L8050R
Description: 8' LED STRIP DUAL LENS UNV 4000K NO-DIM
Light Source: -
Ballast/Driver: -

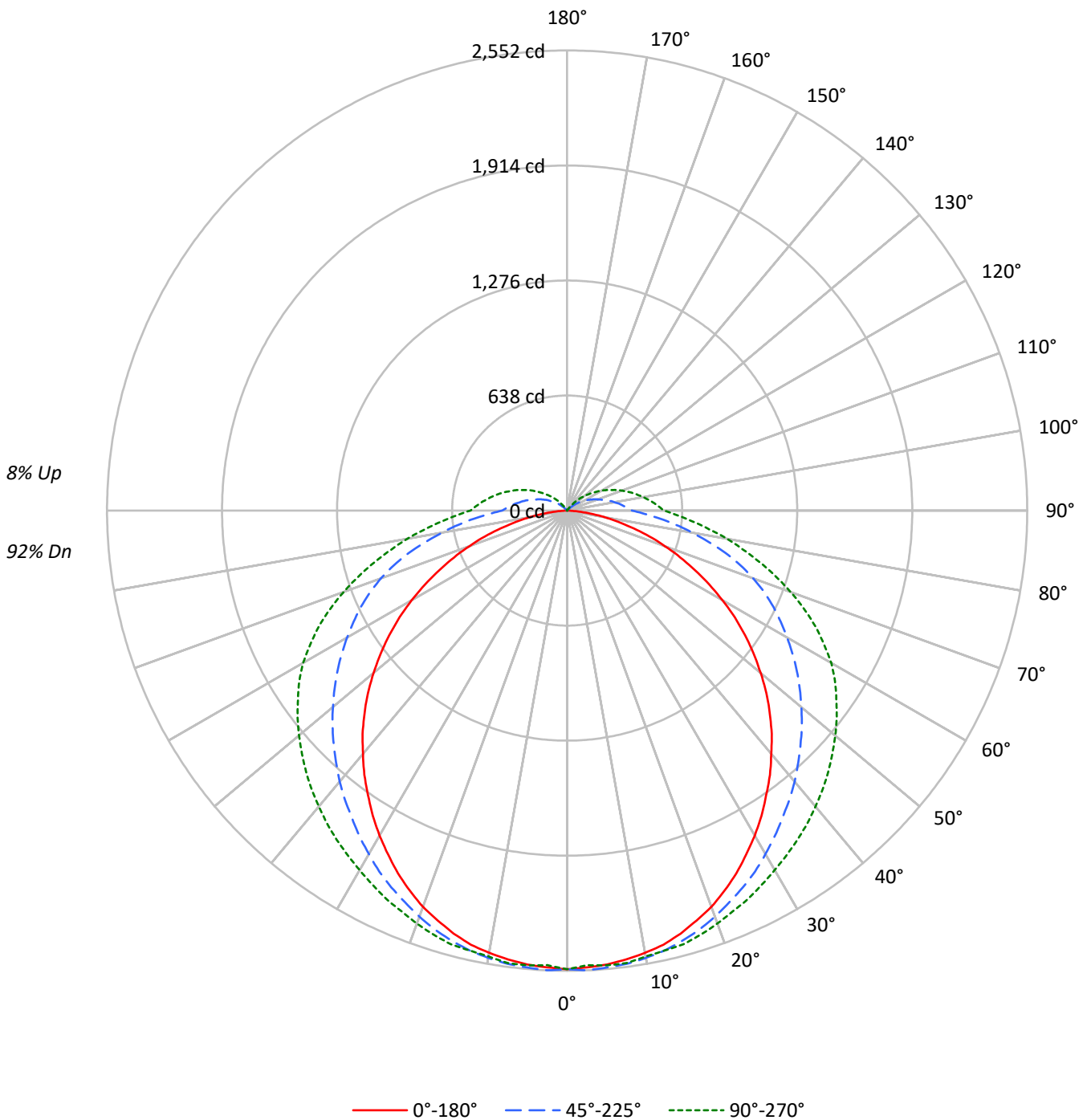
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9412.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.35 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.3' x L: 8' x H: 0.62')
CIE Type: Direct

Input Watts (W): 81
Input Voltage (V): NR
Input Current (A_{in}): 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	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	105	99	94	90	101	96	91	87	90	86	83	85	82	79	80	78	75	73
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	59
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	46	56	50	45	53	48	43	41
5	71	58	48	41	69	56	47	41	53	45	40	50	44	38	48	42	37	35
6	66	52	43	36	63	51	42	35	48	40	34	45	39	33	43	37	33	30
7	61	47	38	31	59	46	37	31	43	36	30	41	34	29	39	33	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	36	29	24	35	28	24	33	27	23	21
10	50	36	28	22	48	35	27	22	34	27	22	32	26	21	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11528	11528	11528
5°	11420	10195	9725
10°	11306	9112	8427
15°	11163	8198	7471
20°	10969	7399	6655
25°	10712	6705	5995
30°	10420	6086	5438
35°	10099	5532	4983
40°	9780	5057	4581
45°	9448	4613	4227
50°	9036	4210	3901
55°	8561	3838	3595
60°	7947	3476	3300
65°	7186	3138	2955
70°	6301	2775	2576
75°	5164	2355	2187
80°	3778	1885	1818
85°	1799	1451	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	2.6
10°-20°	694.5	7.4
20°-30°	1058.7	11.2
30°-40°	1299.2	13.8
40°-50°	1403.9	14.9
50°-60°	1368.3	14.5
60°-70°	1193.2	12.7
70°-80°	883.7	9.4
80°-90°	517.0	5.5
90°-100°	306.0	3.3
100°-110°	215.7	2.3
110°-120°	134.8	1.4
120°-130°	69.4	0.7
130°-140°	24.1	0.3
140°-150°	2.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1994.4	21.2
0°-40°	3293.6	35.0
0°-60°	6065.7	64.4
0°-90°	8659.7	92.0
90°-120°	656.5	7.0
90°-150°	752.4	8.0
90°-180°	752.0	8.0
0°-180°	9412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2544	2544	2544	2544	2544	
5°	2527	2556	2544	2536	2531	240
15°	2429	2458	2470	2482	2490	685
25°	2220	2253	2306	2351	2376	1022
35°	1925	1970	2081	2179	2228	1206
45°	1589	1655	1831	1978	2048	1225
55°	1204	1311	1556	1745	1823	1075
65°	782	967	1262	1450	1520	776
75°	381	639	909	1053	1106	407
85°	66	307	520	647	700	85
90°	4	168	360	487	537	4
95°	0	131	311	434	483	0
105°	0	70	225	336	377	0
115°	0	20	143	238	270	0
125°	0	0	74	148	172	0
135°	0	0	8	66	86	0
145°	0	0	0	0	12	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7
2.5°	2535.5	2531.4	2568.3	2543.7	2547.8	2568.3	2551.9	2543.7	2551.9	2547.8	2551.9
5°	2527.3	2519.1	2556.0	2535.5	2539.6	2556.0	2539.6	2535.5	2539.6	2539.6	2543.7
7.5°	2511.0	2502.8	2539.6	2519.1	2523.2	2539.6	2523.2	2519.1	2527.3	2523.2	2535.5
10°	2490.5	2482.3	2515.0	2498.7	2502.8	2519.1	2502.8	2502.8	2506.9	2511.0	2519.1
12.5°	2465.9	2453.6	2486.4	2474.1	2474.1	2494.6	2478.2	2478.2	2482.3	2486.4	2498.7
15°	2429.0	2416.7	2445.4	2437.2	2437.2	2457.7	2441.3	2445.4	2449.5	2457.7	2470.0
17.5°	2384.0	2371.7	2396.3	2392.2	2392.2	2412.6	2396.3	2404.5	2408.5	2416.7	2437.2
20°	2338.9	2326.6	2347.1	2343.0	2347.1	2367.6	2351.2	2359.4	2367.6	2379.9	2396.3
22.5°	2281.6	2269.3	2289.8	2289.8	2289.8	2310.2	2298.0	2310.2	2318.4	2330.7	2351.2
25°	2220.1	2211.9	2224.2	2228.3	2232.4	2252.9	2240.6	2252.9	2265.2	2281.6	2306.1
27.5°	2150.5	2142.3	2150.5	2162.8	2166.9	2187.4	2175.1	2195.5	2203.7	2224.2	2257.0
30°	2080.9	2072.7	2080.9	2093.1	2101.3	2117.7	2109.5	2130.0	2142.3	2166.9	2199.6
32.5°	2007.1	2003.0	2007.1	2023.5	2031.7	2048.1	2044.0	2068.6	2080.9	2109.5	2142.3
35°	1925.2	1921.1	1925.2	1945.7	1958.0	1970.3	1966.2	1994.8	2015.3	2044.0	2080.9
37.5°	1847.4	1843.3	1847.4	1872.0	1880.1	1900.6	1896.5	1925.2	1949.8	1982.5	2023.5
40°	1761.4	1761.4	1761.4	1790.0	1802.3	1822.8	1818.7	1855.6	1880.1	1912.9	1962.1
42.5°	1679.4	1675.3	1675.3	1704.0	1724.5	1740.9	1740.9	1777.7	1810.5	1847.4	1896.5
45°	1589.3	1589.3	1585.2	1618.0	1638.5	1654.9	1658.9	1699.9	1736.8	1777.7	1831.0
47.5°	1499.2	1495.1	1495.1	1532.0	1552.4	1572.9	1577.0	1626.2	1663.0	1708.1	1765.5
50°	1400.9	1400.9	1400.9	1441.9	1466.4	1482.8	1495.1	1544.3	1585.2	1634.4	1695.8
52.5°	1302.6	1306.7	1306.7	1347.6	1380.4	1396.8	1413.2	1466.4	1511.5	1560.6	1626.2
55°	1204.3	1208.4	1212.5	1257.5	1290.3	1310.8	1331.3	1384.5	1437.8	1486.9	1556.5
57.5°	1101.9	1110.1	1114.2	1163.3	1204.3	1224.8	1245.2	1306.7	1359.9	1413.2	1482.8
60°	995.4	1007.7	1019.9	1069.1	1114.2	1138.7	1163.3	1224.8	1282.1	1343.5	1409.1
62.5°	888.9	905.3	917.5	974.9	1024.0	1052.7	1081.4	1142.8	1204.3	1265.7	1335.4
65°	782.4	798.8	815.1	880.7	942.1	966.7	999.5	1065.0	1126.4	1192.0	1261.6
67.5°	680.0	700.4	725.0	790.6	852.0	880.7	917.5	987.2	1052.7	1114.2	1183.8
70°	577.6	598.0	630.8	700.4	766.0	794.7	827.4	909.4	974.9	1036.3	1097.8
72.5°	479.3	503.8	544.8	618.5	688.2	716.8	749.6	823.3	893.0	950.3	1007.7
75°	380.9	409.6	458.8	532.5	606.2	639.0	675.9	741.4	798.8	852.0	909.4
77.5°	290.8	319.5	380.9	458.8	528.4	561.2	593.9	659.5	712.7	757.8	802.8
80°	208.9	237.6	303.1	380.9	450.6	479.3	507.9	565.3	614.4	659.5	704.5
82.5°	131.1	167.9	233.5	307.2	368.7	393.2	421.9	475.2	524.3	565.3	610.3
85°	65.5	106.5	167.9	229.4	282.6	307.2	335.9	385.0	434.2	475.2	520.2
87.5°	20.5	57.3	102.4	159.8	208.9	229.4	254.0	303.1	348.2	389.1	430.1
90°	4.1	20.5	57.3	102.4	147.5	167.9	192.5	237.6	278.5	319.5	360.5
92.5°	0.0	12.3	45.1	86.0	127.0	147.5	172.0	213.0	258.1	294.9	335.9
95°	0.0	4.1	32.8	69.6	110.6	131.1	151.6	192.5	237.6	274.4	311.3
97.5°	0.0	0.0	20.5	57.3	94.2	114.7	135.2	176.1	213.0	254.0	290.8
100°	0.0	0.0	12.3	45.1	81.9	98.3	118.8	155.7	196.6	229.4	266.3
102.5°	0.0	0.0	8.2	32.8	65.5	81.9	102.4	139.3	176.1	208.9	245.8
105°	0.0	0.0	4.1	24.6	53.3	69.6	86.0	122.9	159.8	192.5	225.3
107.5°	0.0	0.0	0.0	12.3	41.0	57.3	73.7	106.5	139.3	172.0	200.7
110°	0.0	0.0	0.0	4.1	28.7	45.1	61.4	90.1	122.9	151.6	180.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	20.5	32.8	45.1	77.8	106.5	135.2	163.8
115°	0.0	0.0	0.0	0.0	8.2	20.5	32.8	61.4	90.1	118.8	143.4
117.5°	0.0	0.0	0.0	0.0	4.1	12.3	20.5	49.2	73.7	98.3	127.0
120°	0.0	0.0	0.0	0.0	0.0	4.1	12.3	32.8	61.4	81.9	106.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	20.5	45.1	69.6	90.1
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	32.8	53.3	73.7
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	16.4	36.9	57.3
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	20.5	41.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	24.6
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7
2.5°	2556.0	2551.9	2547.8	2531.4	2535.5	2519.1	2502.8	2515.0	2535.5	2523.2
5°	2547.8	2543.7	2543.7	2531.4	2535.5	2519.1	2502.8	2519.1	2543.7	2531.4
7.5°	2539.6	2535.5	2535.5	2527.3	2531.4	2519.1	2502.8	2519.1	2543.7	2531.4
10°	2523.2	2523.2	2523.2	2511.0	2515.0	2502.8	2486.4	2502.8	2523.2	2511.0
12.5°	2502.8	2502.8	2506.9	2494.6	2502.8	2486.4	2474.1	2490.5	2515.0	2498.7
15°	2478.2	2478.2	2486.4	2478.2	2482.3	2474.1	2457.7	2478.2	2502.8	2490.5
17.5°	2441.3	2449.5	2457.7	2453.6	2457.7	2449.5	2437.2	2453.6	2482.3	2465.9
20°	2404.5	2416.7	2424.9	2420.8	2424.9	2416.7	2408.5	2424.9	2453.6	2437.2
22.5°	2359.4	2371.7	2384.0	2384.0	2388.1	2384.0	2375.8	2392.2	2420.8	2404.5
25°	2314.3	2330.7	2347.1	2347.1	2351.2	2347.1	2343.0	2363.5	2392.2	2375.8
27.5°	2265.2	2285.7	2302.0	2306.1	2310.2	2310.2	2310.2	2326.6	2355.3	2338.9
30°	2211.9	2232.4	2257.0	2261.1	2269.3	2269.3	2269.3	2289.8	2318.4	2302.0
32.5°	2158.7	2183.3	2207.8	2220.1	2224.2	2228.3	2232.4	2252.9	2281.6	2265.2
35°	2097.2	2125.9	2158.7	2166.9	2179.2	2183.3	2191.5	2207.8	2240.6	2228.3
37.5°	2039.9	2076.8	2109.5	2125.9	2134.1	2142.3	2154.6	2166.9	2199.6	2187.4
40°	1982.5	2019.4	2056.3	2076.8	2085.0	2097.2	2105.4	2125.9	2154.6	2142.3
42.5°	1921.1	1962.1	2003.0	2023.5	2035.8	2044.0	2060.4	2076.8	2105.4	2097.2
45°	1859.7	1904.7	1945.7	1970.3	1978.5	1994.8	2011.2	2027.6	2056.3	2048.1
47.5°	1794.1	1843.3	1884.2	1912.9	1925.2	1941.6	1958.0	1974.4	2003.0	1994.8
50°	1724.5	1777.7	1822.8	1851.5	1863.8	1884.2	1904.7	1921.1	1945.7	1941.6
52.5°	1663.0	1712.2	1761.4	1794.1	1806.4	1826.9	1847.4	1863.8	1888.3	1884.2
55°	1589.3	1646.7	1695.8	1728.6	1745.0	1765.5	1790.0	1806.4	1831.0	1822.8
57.5°	1523.8	1577.0	1630.3	1663.0	1679.4	1699.9	1728.6	1745.0	1761.4	1761.4
60°	1450.0	1507.4	1560.6	1597.5	1609.8	1634.4	1658.9	1671.2	1691.7	1691.7
62.5°	1376.3	1433.7	1486.9	1519.7	1532.0	1556.5	1581.1	1589.3	1609.8	1605.7
65°	1302.6	1355.8	1405.0	1437.8	1450.0	1470.5	1495.1	1503.3	1519.7	1519.7
67.5°	1220.7	1273.9	1319.0	1347.6	1355.8	1380.4	1400.9	1405.0	1421.4	1421.4
70°	1134.6	1179.7	1220.7	1249.3	1257.5	1278.0	1298.5	1302.6	1319.0	1319.0
72.5°	1040.4	1081.4	1118.3	1146.9	1159.2	1175.6	1192.0	1196.1	1208.4	1212.5
75°	942.1	979.0	1015.9	1044.5	1052.7	1069.1	1085.5	1089.6	1101.9	1106.0
77.5°	835.6	876.6	913.4	942.1	950.3	966.7	983.1	987.2	995.4	999.5
80°	737.3	770.1	806.9	831.5	839.7	856.1	876.6	884.8	893.0	901.2
82.5°	643.1	675.9	708.6	733.2	741.4	757.8	774.2	782.4	790.6	794.7
85°	553.0	585.8	614.4	639.0	647.2	663.6	680.0	688.2	696.3	700.4
87.5°	462.9	495.6	524.3	553.0	561.2	577.6	593.9	606.2	606.2	614.4
90°	393.2	421.9	454.7	479.3	487.4	499.7	516.1	528.4	532.5	536.6
92.5°	364.6	397.3	426.0	450.6	462.9	475.2	491.5	499.7	503.8	507.9
95°	344.1	372.8	401.4	426.0	434.2	450.6	462.9	475.2	479.3	483.3
97.5°	319.5	348.2	376.8	401.4	409.6	421.9	438.3	446.5	450.6	454.7
100°	299.0	327.7	352.3	376.8	385.0	397.3	413.7	421.9	426.0	430.1
102.5°	274.4	303.1	327.7	352.3	360.5	372.8	385.0	397.3	401.4	401.4
105°	254.0	278.5	303.1	327.7	335.9	344.1	360.5	368.7	372.8	376.8
107.5°	229.4	258.1	278.5	303.1	311.3	319.5	331.8	344.1	348.2	348.2
110°	208.9	233.5	254.0	274.4	286.7	294.9	307.2	315.4	319.5	323.6



TEST NUMBER: P306974

CATALOG NUMBER: 8ST2L8050R

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	188.4	213.0	233.5	254.0	262.2	270.3	282.6	290.8	294.9	299.0
115°	167.9	192.5	208.9	229.4	237.6	245.8	258.1	266.3	270.3	270.3
117.5°	147.5	167.9	188.4	204.8	213.0	221.2	233.5	241.7	245.8	245.8
120°	131.1	147.5	167.9	184.3	188.4	196.6	208.9	217.1	221.2	221.2
122.5°	110.6	131.1	143.4	159.8	167.9	176.1	184.3	192.5	196.6	196.6
125°	90.1	110.6	122.9	139.3	147.5	151.6	159.8	167.9	172.0	172.0
127.5°	73.7	90.1	106.5	118.8	122.9	131.1	139.3	147.5	147.5	147.5
130°	57.3	73.7	86.0	98.3	102.4	110.6	118.8	122.9	127.0	127.0
132.5°	41.0	53.3	65.5	77.8	86.0	90.1	98.3	102.4	106.5	106.5
135°	24.6	36.9	49.2	61.4	65.5	69.6	77.8	81.9	81.9	86.0
137.5°	8.2	20.5	32.8	41.0	45.1	49.2	57.3	61.4	65.5	65.5
140°	0.0	8.2	16.4	24.6	28.7	32.8	36.9	41.0	45.1	45.1
142.5°	0.0	0.0	4.1	8.2	12.3	16.4	20.5	24.6	24.6	28.7
145°	0.0	0.0	0.0	0.0	0.0	4.1	4.1	8.2	8.2	12.3
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)