

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: P#

Luminaire Tested: **4SNLED-LD5-35SL-RM-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

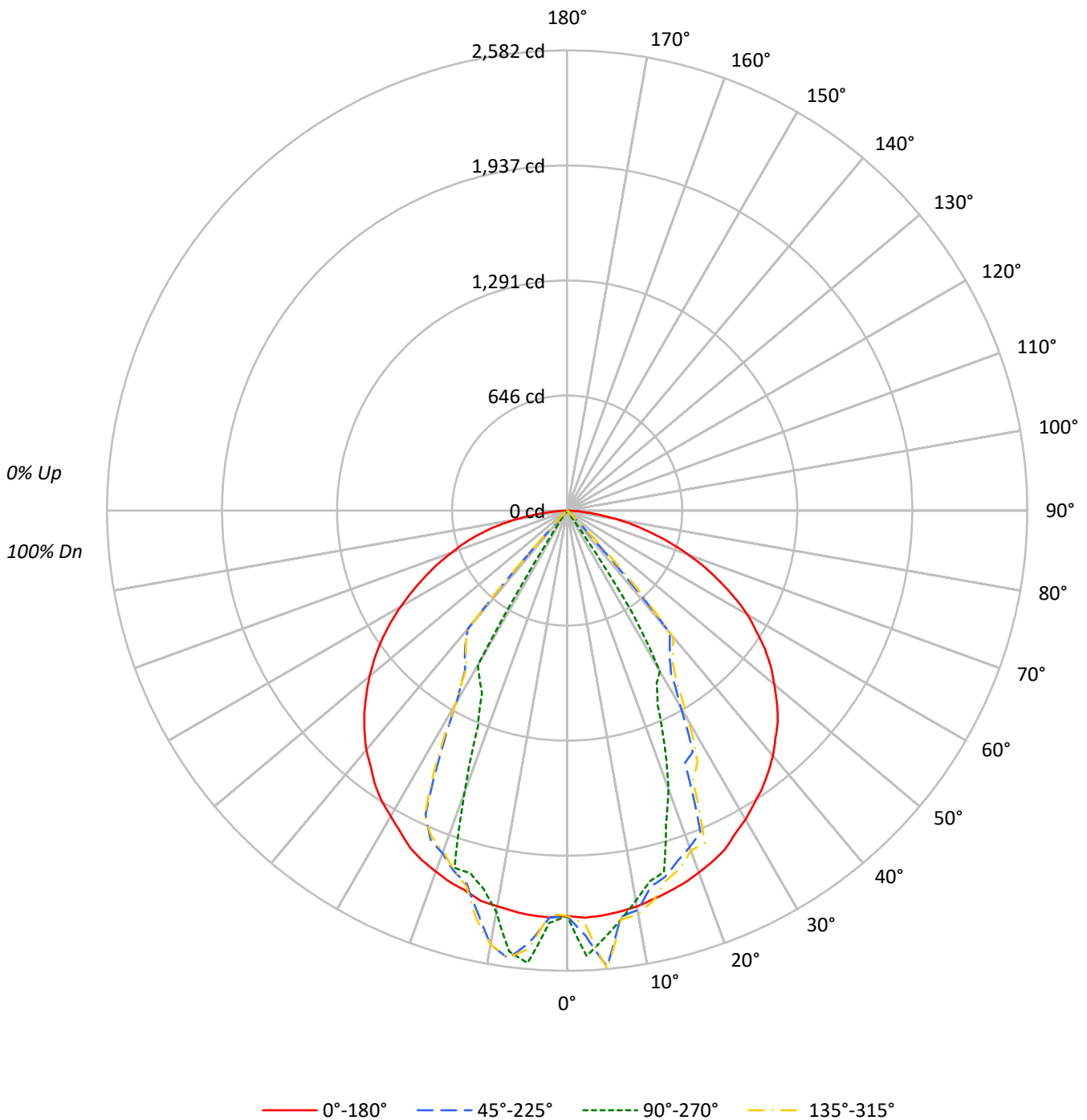
Lumens per Lamp: N/A
Luminaire Lumens: 3232.9 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 25
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65				65
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59				59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49				49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18374	18374	18374	18374
5°	18449	18897	18443	20012
10°	18405	17100	18393	17594
15°	18355	15961	18309	16002
20°	18376	12572	18324	12727
25°	18429	9097	18339	8585
30°	18344	7980	18151	7672
35°	18399	176	18129	213
40°	18462	39	18020	39
45°	18527	22	17832	17
50°	18385	17	17542	17
55°	18277	13	17155	13
60°	17932	14	16531	14
65°	16997	21	15788	15
70°	15769	23	15012	23
75°	13947	26	14177	26
80°	11330	30	11978	30
85°	6668	35	6804	35



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	7.1
10°-20°	622.2	19.2
20°-30°	791.8	24.5
30°-40°	668.8	20.7
40°-50°	437.3	13.5
50°-60°	275.5	8.5
60°-70°	146.7	4.5
70°-80°	53.5	1.7
80°-90°	9.2	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1642.1	50.8
0°-40°	2310.9	71.5
0°-60°	3023.7	93.5
0°-90°	3232.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3232.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2274	2274	2274	2274	2274	
5°	2280	2406	2280	2548	2280	217
15°	2212	2100	2207	2105	2212	625
25°	2097	1199	2087	1131	2097	964
35°	1906	22	1878	27	1906	1192
45°	1672	3	1609	2	1672	1286
55°	1355	1	1272	1	1355	1208
65°	948	2	881	1	948	939
75°	499	2	507	2	499	529
85°	98	2	100	2	98	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2286.7	2288.0	2288.7	2290.1	2292.1	2292.8	2294.2	2292.8	2292.8	2292.8	2292.8
5°	2280.5	2283.2	2285.3	2288.0	2292.8	2293.5	2298.9	2299.6	2302.3	2307.8	2311.9
7.5°	2270.3	2273.0	2277.1	2283.9	2290.7	2298.3	2307.8	2318.0	2332.4	2346.0	2363.1
10°	2255.3	2258.7	2263.5	2269.6	2303.0	2307.8	2329.0	2358.3	2366.5	2409.5	2441.6
12.5°	2233.4	2245.0	2257.3	2262.8	2294.8	2345.3	2416.3	2402.0	2386.3	2526.9	2524.8
15°	2212.3	2228.0	2221.8	2266.2	2295.5	2383.6	2353.5	2417.7	2535.0	2506.4	2507.7
17.5°	2189.8	2193.2	2227.3	2264.1	2316.7	2361.7	2398.6	2486.6	2509.8	2511.8	2486.6
20°	2161.1	2177.5	2227.3	2260.7	2349.4	2370.6	2450.4	2495.5	2485.9	2462.7	2419.7
22.5°	2131.8	2181.6	2232.1	2279.1	2341.2	2397.9	2437.5	2458.6	2408.8	2317.4	2268.2
25°	2097.0	2126.3	2192.5	2261.4	2339.2	2372.0	2395.2	2361.0	2296.2	2214.3	2131.8
27.5°	2043.0	2090.1	2174.7	2252.5	2322.8	2362.4	2324.9	2243.0	2138.6	2084.7	2047.1
30°	2001.4	2062.8	2132.4	2207.5	2280.5	2303.7	2208.2	2114.7	2043.0	1989.1	1980.9
32.5°	1950.9	2038.3	2104.5	2176.1	2237.5	2206.8	2114.0	1993.2	1933.9	1913.4	1921.6
35°	1905.9	1972.1	2058.7	2129.0	2173.4	2104.5	1957.7	1882.7	1854.0	1865.6	1850.6
37.5°	1852.0	1939.3	2019.2	2079.9	2064.9	1961.2	1837.0	1789.2	1792.6	1783.1	1754.4
40°	1796.0	1879.3	1962.5	2019.8	1967.3	1809.0	1726.4	1716.2	1718.2	1687.5	1646.6
42.5°	1730.5	1806.3	1889.5	1941.4	1828.1	1704.6	1648.6	1650.0	1632.3	1589.3	1567.4
45°	1671.8	1741.4	1828.1	1832.9	1693.7	1590.6	1574.2	1556.5	1516.9	1502.6	1486.2
47.5°	1596.8	1673.9	1745.5	1719.6	1562.0	1497.8	1485.5	1446.6	1426.9	1415.9	1402.3
50°	1516.9	1594.7	1660.2	1586.5	1437.8	1422.8	1382.5	1351.8	1338.1	1326.5	1314.3
52.5°	1441.2	1505.3	1572.2	1445.3	1342.2	1327.9	1282.2	1264.4	1250.8	1237.8	1235.1
55°	1355.2	1411.8	1457.6	1310.9	1250.8	1217.4	1184.6	1172.3	1159.4	1153.2	1163.5
57.5°	1257.6	1321.8	1314.9	1178.5	1151.9	1103.4	1091.1	1082.9	1073.4	1077.5	992.2
60°	1169.6	1218.7	1185.3	1081.6	1036.5	1003.8	992.9	987.4	992.9	909.6	799.7
62.5°	1061.1	1116.4	1048.8	968.3	920.5	904.8	895.3	902.8	822.9	731.5	704.9
65°	948.5	1008.6	908.9	846.8	816.8	803.2	802.5	739.0	660.5	625.1	625.1
67.5°	840.0	902.1	773.8	722.0	710.4	711.7	672.1	575.9	554.1	530.2	461.3
70°	724.7	779.3	639.4	608.0	601.2	596.4	500.2	474.3	448.3	384.9	379.4
72.5°	610.0	636.7	513.8	506.3	505.0	419.7	400.6	356.2	326.2	318.7	315.3
75°	498.8	490.6	406.0	412.8	348.0	318.0	287.3	261.4	257.3	254.5	63.5
77.5°	393.7	352.8	320.0	278.4	249.1	211.5	205.4	201.3	132.4	47.8	38.9
80°	286.6	228.6	212.9	180.8	154.2	148.1	151.5	46.4	36.8	30.7	26.6
82.5°	182.2	146.0	119.4	104.4	101.7	44.4	32.8	26.6	23.2	19.8	16.4
85°	97.6	64.8	60.0	50.5	30.0	20.5	17.1	13.0	10.9	8.9	8.2
87.5°	30.7	25.9	21.2	17.1	10.2	6.8	5.5	4.8	4.1	3.4	3.4
90°	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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2291.4	2292.8	2292.1	2294.2	2294.2	2296.9	2298.9	2301.0	2305.1	2307.1	2322.8
5°	2320.8	2324.2	2334.4	2344.0	2355.6	2359.0	2378.8	2383.6	2406.8	2409.5	2485.9
7.5°	2386.3	2399.2	2423.8	2448.4	2472.9	2488.6	2515.9	2533.0	2551.4	2567.8	2628.5
10°	2465.4	2487.3	2511.2	2535.7	2550.1	2580.1	2596.5	2599.2	2594.4	2567.8	2469.5
12.5°	2543.2	2565.1	2554.8	2559.6	2576.7	2523.4	2530.9	2492.7	2519.3	2387.6	2290.1
15°	2532.3	2530.9	2505.7	2423.8	2437.5	2335.8	2294.8	2263.5	2288.7	2275.1	2260.0
17.5°	2499.6	2437.5	2393.8	2295.5	2253.9	2225.2	2225.9	2226.6	2214.3	2227.3	2189.1
20°	2361.0	2291.4	2226.6	2191.8	2179.5	2159.0	2169.3	2159.0	2159.7	2163.8	2105.1
22.5°	2176.8	2155.6	2118.1	2129.0	2124.9	2143.4	2129.7	2108.6	2115.4	2084.7	2040.3
25°	2102.4	2077.8	2076.5	2080.6	2074.4	2066.2	2054.0	2021.9	2019.8	2010.3	1989.8
27.5°	2027.3	2028.7	2032.8	2020.5	1998.7	1982.3	1963.9	1948.2	1954.3	1943.4	1915.4
30°	1975.5	1974.8	1950.2	1939.3	1899.1	1899.7	1895.0	1885.4	1879.3	1880.0	1862.2
32.5°	1901.8	1880.6	1852.7	1839.0	1835.6	1823.3	1813.8	1815.8	1820.6	1803.5	1822.0
35°	1826.0	1782.4	1778.3	1766.7	1755.8	1747.6	1751.0	1737.3	1736.7	1734.6	1584.5
37.5°	1724.4	1703.2	1701.2	1688.9	1681.4	1679.3	1666.4	1668.4	1674.6	1685.5	1351.1
40°	1640.4	1621.3	1616.6	1615.9	1599.5	1598.1	1601.5	1614.5	1623.4	1555.1	1287.6
42.5°	1550.4	1551.7	1536.7	1527.2	1529.2	1535.4	1551.7	1506.7	1305.4	1244.0	1177.1
45°	1473.3	1466.4	1458.2	1455.5	1473.3	1461.0	1280.8	1181.9	1158.0	1155.3	967.6
47.5°	1392.7	1390.7	1387.3	1389.3	1288.3	1148.4	1107.5	1094.5	1098.6	1095.9	831.1
50°	1311.5	1314.3	1314.3	1147.8	1053.6	1030.4	1033.8	1045.4	973.1	908.2	774.5
52.5°	1241.2	1220.1	1045.4	985.4	964.2	974.4	949.9	859.1	793.6	755.4	716.5
55°	1110.9	955.3	916.4	906.9	914.4	823.6	767.7	709.0	691.9	687.8	665.3
57.5°	874.1	842.7	846.2	807.9	721.3	670.1	647.6	639.4	631.9	626.4	54.6
60°	773.1	782.0	715.8	633.9	599.1	592.3	586.8	579.3	578.0	568.4	34.8
62.5°	707.6	622.3	565.0	544.5	536.4	534.3	524.1	520.7	442.2	60.7	25.9
65°	533.6	498.8	487.9	483.1	474.3	474.3	393.7	62.1	50.5	43.7	23.2
67.5°	435.4	432.6	427.2	421.0	286.6	60.0	52.5	45.7	39.6	34.8	20.5
70°	368.5	367.1	334.4	61.4	51.2	45.0	39.6	35.5	32.8	29.3	18.4
72.5°	302.3	61.4	51.9	45.0	38.9	35.5	32.1	28.7	25.9	23.9	15.0
75°	47.1	41.6	36.8	33.4	30.7	27.3	24.6	22.5	21.8	19.1	10.2
77.5°	34.1	29.3	26.6	23.9	21.2	19.1	16.4	14.3	13.0	10.9	7.5
80°	23.9	21.2	19.1	15.7	13.6	11.6	10.2	8.9	8.2	6.8	3.4
82.5°	13.6	11.6	10.2	8.2	7.5	6.1	5.5	4.8	4.8	3.4	3.4
85°	6.1	6.1	4.8	4.1	3.4	3.4	3.4	2.7	2.7	2.0	2.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.0	2.0	2.0	2.0	2.0	1.4
90°	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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2344.7	2353.5	2370.6	2388.3	2368.5	2439.5	2434.0	2457.9	2470.9	2477.0	2491.4
5°	2553.5	2593.0	2606.0	2567.1	2544.6	2521.4	2468.8	2429.3	2434.0	2421.1	2374.0
7.5°	2549.4	2464.8	2350.8	2298.9	2294.8	2288.7	2305.1	2314.6	2316.0	2315.3	2313.9
10°	2333.7	2290.1	2282.6	2275.7	2278.5	2253.2	2241.6	2208.9	2226.6	2217.0	2220.5
12.5°	2268.2	2258.0	2217.7	2161.8	2195.2	2170.0	2155.6	2165.2	2154.3	2144.0	2140.6
15°	2229.3	2163.1	2140.6	2127.0	2117.4	2112.0	2116.7	2105.8	2102.4	2100.4	2105.1
17.5°	2148.8	2122.2	2097.6	2061.5	2062.1	2060.1	2073.8	2094.2	2095.6	1990.5	1895.6
20°	2085.4	2063.5	2032.1	2009.6	2040.3	1985.7	1774.9	1674.6	1658.9	1658.9	1661.6
22.5°	2034.9	1986.4	1988.5	1953.0	1665.7	1607.0	1608.4	1614.5	1586.5	1491.0	1480.8
25°	1965.9	1958.4	1809.0	1563.3	1565.4	1519.7	1449.4	1350.4	1243.3	1243.3	1225.6
27.5°	1914.1	1755.1	1536.7	1526.5	1372.9	1276.0	1216.0	1125.2	1113.0	1101.4	1102.7
30°	1869.7	1484.9	1490.3	1276.0	1162.8	1082.3	1077.5	1062.5	1055.0	1052.9	1045.4
32.5°	1478.0	1446.0	1247.4	1086.3	1042.0	1029.0	1022.9	1005.8	1005.1	992.2	902.1
35°	1385.9	1269.2	1044.0	1000.4	987.4	975.1	964.9	647.6	76.4	30.7	26.6
37.5°	1280.8	1060.4	965.6	945.8	933.5	689.9	68.9	23.9	17.1	12.3	10.9
40°	1085.7	947.1	917.1	895.3	369.2	23.9	15.0	11.6	6.8	6.1	5.5
42.5°	915.8	892.6	860.5	262.0	27.3	11.6	7.5	5.5	4.8	4.8	4.1
45°	857.1	836.6	346.6	25.9	17.1	5.5	4.8	4.8	4.1	2.7	2.7
47.5°	802.5	706.3	31.4	16.4	10.9	4.8	4.1	2.7	2.7	2.7	2.0
50°	744.5	38.9	21.8	12.3	6.8	2.7	2.7	2.7	2.7	2.0	2.0
52.5°	139.2	27.3	17.7	10.9	3.4	2.7	2.7	2.7	2.0	2.0	2.0
55°	32.8	21.8	16.4	9.6	2.7	2.7	2.7	2.0	2.0	2.0	1.4
57.5°	24.6	16.4	13.0	8.9	2.7	2.0	2.0	2.0	2.0	2.0	1.4
60°	20.5	11.6	10.2	8.2	2.0	2.0	2.0	2.0	2.0	2.0	1.4
62.5°	14.3	9.6	7.5	6.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
65°	11.6	7.5	6.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	10.2	6.1	4.1	1.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	8.2	2.0	2.0	1.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	6.8	2.0	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	6.8	3.4	1.4	1.4	2.0	2.0	2.7	2.7	2.0	2.0	2.0
77.5°	4.8	3.4	1.4	1.4	2.0	2.0	2.7	2.7	2.0	2.0	2.0
80°	2.7	3.4	1.4	2.0	2.0	4.1	4.8	2.7	2.0	2.0	2.0
82.5°	2.7	3.4	4.1	4.1	2.0	3.4	4.1	3.4	2.7	2.0	2.0
85°	2.7	2.0	2.7	3.4	2.0	3.4	3.4	2.7	2.7	2.0	2.0
87.5°	1.4	2.0	2.0	2.7	2.7	2.7	3.4	2.7	2.7	2.7	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2498.2	2500.9	2457.9	2442.9	2455.9	2453.2	2441.6	2398.6	2393.8	2365.1	2323.5
5°	2387.6	2406.1	2383.6	2422.4	2404.0	2422.4	2478.4	2504.3	2546.6	2572.6	2582.1
7.5°	2310.5	2314.6	2314.6	2318.0	2321.5	2322.1	2318.0	2315.3	2303.7	2289.4	2315.3
10°	2217.0	2221.8	2230.0	2228.7	2228.0	2242.3	2245.7	2275.1	2273.7	2279.1	2298.9
12.5°	2168.6	2131.8	2165.2	2156.3	2168.6	2149.5	2185.0	2178.8	2180.9	2197.3	2239.6
15°	2088.1	2099.7	2107.9	2107.9	2112.6	2108.6	2104.5	2132.4	2149.5	2150.2	2147.4
17.5°	1933.2	1845.2	1935.2	1912.0	2097.0	2101.7	2086.0	2073.1	2073.1	2083.3	2105.1
20°	1659.5	1661.6	1662.3	1671.1	1682.1	1681.4	1682.1	1950.9	2078.5	2049.2	2029.4
22.5°	1454.8	1429.6	1476.7	1473.3	1531.9	1596.8	1658.9	1652.7	1656.8	1846.5	2017.1
25°	1166.2	1198.9	1172.3	1183.9	1250.1	1327.2	1375.0	1499.9	1635.7	1626.1	1670.5
27.5°	1097.9	1089.1	1101.4	1101.4	1110.2	1120.5	1147.1	1217.4	1338.1	1465.1	1585.2
30°	1033.1	1040.6	1042.0	1054.3	1061.1	1067.9	1072.0	1098.6	1125.9	1214.0	1362.0
32.5°	775.9	680.3	895.3	953.3	1002.4	1014.0	1022.2	1033.1	1052.9	1065.9	1140.3
35°	22.5	22.5	23.9	27.3	34.8	234.7	893.9	985.4	998.3	1014.7	1028.3
37.5°	10.9	8.2	9.6	10.2	12.3	17.1	24.6	76.4	850.9	962.2	977.2
40°	4.8	4.8	4.8	4.8	5.5	6.8	10.2	17.1	25.9	684.4	923.3
42.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.8	6.1	12.3	29.3	484.5
45°	2.7	2.7	2.0	2.7	2.7	3.4	4.1	4.1	5.5	18.4	33.4
47.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.4	4.1	12.3	17.7
50°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	9.6	12.3
52.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	10.9
55°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.7	9.6
57.5°	1.4	1.4	1.4	1.4	1.4	2.0	1.4	1.4	2.0	2.0	8.9
60°	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0	2.0	2.0	8.2
62.5°	2.0	2.0	1.4	2.0	1.4	1.4	2.0	2.0	2.0	2.0	5.5
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.4	2.0
67.5°	2.0	2.0	2.0	2.0	1.4	2.0	1.4	2.0	2.0	1.4	1.4
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.4	1.4	1.4	1.4
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.4	1.4	1.4	1.4
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	1.4	1.4	1.4
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	3.4	4.1	3.4	3.4	1.4
80°	2.0	2.0	2.0	2.0	2.0	2.0	3.4	3.4	3.4	3.4	4.8
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7	2.7	3.4
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7	2.0	2.7
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2326.9	2303.7	2296.2	2280.5	2279.1	2280.5	2277.1	2272.3	2275.1	2270.3	2266.2
5°	2587.6	2525.5	2485.2	2431.3	2356.9	2340.6	2336.5	2313.3	2305.1	2302.3	2291.4
7.5°	2376.7	2490.0	2558.2	2581.4	2494.1	2473.6	2449.7	2430.6	2412.2	2377.4	2356.3
10°	2283.2	2288.7	2354.2	2430.6	2554.8	2571.9	2584.9	2543.2	2531.6	2442.9	2423.8
12.5°	2261.4	2262.1	2269.6	2316.0	2413.6	2424.5	2470.2	2494.8	2524.8	2541.9	2528.2
15°	2161.8	2217.0	2258.0	2262.1	2271.0	2290.1	2303.7	2389.0	2425.2	2522.1	2516.6
17.5°	2115.4	2133.1	2192.5	2240.9	2232.7	2225.9	2236.8	2248.4	2283.2	2380.1	2378.8
20°	2038.3	2094.9	2127.0	2177.5	2223.2	2225.2	2213.0	2206.1	2192.5	2208.2	2222.5
22.5°	2005.5	2014.4	2074.4	2109.9	2161.8	2180.2	2182.9	2183.6	2176.1	2167.9	2163.8
25°	2002.1	1974.1	2004.8	2049.2	2087.4	2107.2	2129.7	2137.2	2134.5	2134.5	2130.4
27.5°	1638.4	1965.3	1948.9	1978.2	2024.6	2038.3	2049.9	2073.1	2087.4	2097.6	2102.4
30°	1560.6	1619.3	1905.2	1909.3	1956.4	1955.0	1968.0	1987.1	2005.5	2029.4	2035.5
32.5°	1380.5	1524.4	1744.2	1840.4	1889.5	1894.3	1901.1	1906.6	1923.6	1950.2	1973.4
35°	1106.1	1388.6	1494.4	1807.6	1816.5	1826.0	1830.1	1843.1	1848.6	1859.5	1880.0
37.5°	1001.1	1147.8	1433.7	1563.3	1732.6	1740.7	1762.6	1768.0	1776.9	1785.8	1801.5
40°	940.3	980.6	1193.5	1396.1	1665.0	1670.5	1678.0	1691.6	1692.3	1702.5	1716.9
42.5°	891.9	917.8	979.9	1333.4	1617.2	1616.6	1598.8	1607.7	1611.8	1622.7	1642.5
45°	712.4	861.2	900.7	1089.1	1287.6	1380.5	1558.6	1529.2	1528.5	1532.6	1553.8
47.5°	36.2	810.0	838.0	898.7	1216.0	1219.4	1242.6	1437.8	1467.8	1458.2	1460.3
50°	24.6	56.0	780.6	808.6	1048.1	1132.7	1149.8	1158.7	1271.3	1396.8	1376.4
52.5°	19.1	32.1	478.3	750.6	851.6	913.7	1023.6	1086.3	1093.2	1143.7	1314.9
55°	17.1	24.6	51.9	692.6	724.0	737.7	801.8	911.7	1000.4	1027.0	1029.0
57.5°	15.0	22.5	35.5	313.2	658.5	661.2	672.1	710.4	790.2	863.2	945.8
60°	13.6	19.8	28.0	53.9	598.4	605.3	607.3	617.6	627.1	676.9	771.8
62.5°	8.2	15.7	24.6	38.9	473.6	543.9	543.2	550.0	558.9	564.3	583.4
65°	6.8	12.3	21.2	32.8	58.0	72.3	439.5	488.6	494.0	501.5	505.0
67.5°	6.1	10.9	15.7	25.9	43.7	49.8	57.3	71.0	387.6	436.7	443.5
70°	5.5	7.5	13.0	21.8	35.5	38.2	43.0	49.1	58.0	71.6	350.7
72.5°	3.4	5.5	8.9	15.7	27.3	30.7	33.4	37.5	41.6	49.8	57.3
75°	1.4	4.1	7.5	11.6	21.2	23.2	25.2	28.0	31.4	36.8	40.9
77.5°	1.4	3.4	6.1	8.2	13.6	15.7	18.4	20.5	23.2	25.9	30.0
80°	4.8	2.7	4.1	6.1	9.6	10.2	11.6	13.0	15.0	17.1	19.8
82.5°	3.4	4.1	4.8	4.1	4.8	6.1	6.8	8.2	8.9	10.2	10.9
85°	2.7	2.7	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.8	6.1
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2266.2	2264.8	2260.7	2260.7	2260.0	2262.8	2264.8	2266.9	2266.2	2270.3	2266.2
5°	2283.2	2279.8	2273.7	2268.2	2266.2	2267.5	2265.5	2267.5	2264.8	2268.2	2262.1
7.5°	2330.3	2318.7	2294.8	2285.3	2273.0	2272.3	2266.2	2264.8	2260.7	2260.7	2253.2
10°	2413.6	2357.6	2350.8	2322.1	2311.9	2262.1	2273.0	2254.6	2252.5	2243.7	2240.3
12.5°	2481.8	2438.1	2425.2	2399.9	2371.3	2270.3	2292.8	2253.2	2251.2	2233.4	2215.0
15°	2483.2	2508.4	2472.9	2403.3	2397.2	2327.6	2281.9	2268.2	2250.5	2197.3	2206.1
17.5°	2403.3	2461.3	2478.4	2463.4	2419.7	2372.6	2308.5	2281.2	2228.0	2204.1	2187.7
20°	2273.7	2332.4	2405.4	2410.2	2437.5	2404.0	2320.1	2275.7	2211.6	2170.0	2156.3
22.5°	2170.6	2213.6	2297.6	2336.5	2369.9	2381.5	2328.3	2262.8	2182.9	2142.7	2134.5
25°	2116.1	2125.6	2150.9	2196.6	2270.3	2323.5	2331.0	2261.4	2219.8	2131.8	2085.4
27.5°	2096.3	2088.1	2077.8	2101.0	2156.3	2221.1	2264.1	2275.7	2172.0	2088.1	2041.7
30°	2045.8	2050.5	2034.9	2026.7	2062.8	2129.7	2206.1	2225.2	2145.4	2058.7	2005.5
32.5°	1983.7	1991.9	1994.6	1980.3	1972.8	2019.2	2101.7	2147.4	2143.4	2017.1	1957.7
35°	1905.9	1929.1	1935.2	1935.9	1923.6	1916.1	1963.9	2058.7	2094.9	1998.0	1912.0
37.5°	1824.0	1830.8	1864.3	1873.1	1873.1	1850.6	1886.1	1961.8	2012.3	1955.0	1856.1
40°	1721.6	1743.5	1774.9	1790.6	1806.3	1808.3	1788.5	1841.7	1925.0	1910.7	1803.5
42.5°	1647.3	1661.6	1680.7	1701.9	1733.9	1742.1	1721.6	1731.2	1817.9	1855.4	1735.3
45°	1560.6	1579.7	1585.2	1608.4	1641.8	1665.7	1665.0	1645.2	1714.8	1761.2	1685.5
47.5°	1471.9	1490.3	1499.9	1511.5	1536.0	1566.7	1583.8	1574.9	1588.6	1679.3	1619.3
50°	1380.5	1390.7	1409.8	1422.8	1439.1	1456.9	1497.8	1506.0	1486.9	1559.2	1546.3
52.5°	1293.8	1297.2	1310.2	1323.1	1345.0	1357.9	1390.7	1415.3	1413.9	1435.0	1465.1
55°	1226.2	1211.2	1214.0	1224.2	1238.5	1258.3	1276.7	1314.9	1327.9	1332.0	1379.8
57.5°	958.1	1112.3	1125.9	1125.2	1142.3	1151.2	1168.2	1193.5	1239.9	1229.6	1282.9
60°	870.7	887.8	1016.7	1031.8	1037.9	1046.1	1066.6	1089.8	1123.9	1145.7	1168.9
62.5°	664.0	767.7	806.6	920.5	938.3	943.0	956.7	967.6	1003.1	1052.9	1043.4
65°	513.8	558.2	676.9	723.3	820.2	832.5	851.6	863.2	873.4	930.8	933.5
67.5°	444.2	451.1	483.1	572.5	633.9	728.8	740.4	750.6	766.3	807.3	832.5
70°	379.4	387.6	396.5	404.0	483.8	546.6	634.6	638.0	648.3	675.6	732.9
72.5°	71.6	324.1	329.6	334.4	343.2	384.9	468.8	537.0	541.1	554.1	606.6
75°	48.4	56.6	77.8	267.5	276.4	279.1	293.4	378.7	441.5	444.2	467.4
77.5°	34.8	38.9	47.1	56.0	142.6	214.3	217.7	233.4	298.2	345.3	349.4
80°	23.9	26.6	31.4	35.5	43.7	57.3	158.3	163.1	171.3	236.1	248.4
82.5°	13.6	15.7	18.4	22.5	25.9	32.8	42.3	54.6	111.2	118.7	157.6
85°	6.8	7.5	8.9	10.9	13.0	15.7	21.2	25.9	35.5	64.1	66.2
87.5°	3.4	3.4	3.4	3.4	5.5	6.1	7.5	9.6	12.3	18.4	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2266.9	2276.4	2284.6	2286.7	2286.7	2288.0	2290.1	2291.4	2292.8	2294.2	2292.8
5°	2262.8	2273.0	2279.8	2281.9	2281.9	2286.0	2289.4	2293.5	2295.5	2295.5	2294.2
7.5°	2252.5	2260.0	2268.9	2274.4	2275.1	2281.9	2288.0	2287.3	2290.1	2291.4	2294.8
10°	2238.9	2238.9	2253.9	2258.0	2261.4	2268.9	2271.0	2275.1	2284.6	2286.0	2294.8
12.5°	2232.1	2225.2	2243.0	2245.0	2256.6	2247.1	2259.4	2263.5	2253.9	2266.9	2249.8
15°	2201.4	2209.5	2206.8	2213.0	2233.4	2222.5	2255.9	2245.0	2269.6	2240.3	2292.1
17.5°	2176.1	2174.7	2185.7	2191.1	2195.2	2218.4	2227.3	2239.6	2249.1	2240.9	2261.4
20°	2157.7	2146.8	2155.0	2161.1	2175.4	2193.2	2198.6	2180.2	2212.3	2266.9	2279.8
22.5°	2122.9	2115.4	2124.9	2124.9	2146.8	2144.0	2164.5	2152.9	2182.9	2246.4	2312.6
25°	2075.8	2076.5	2086.7	2099.0	2103.1	2133.8	2144.7	2159.7	2197.3	2273.0	2313.3
27.5°	2028.0	2023.9	2030.1	2055.3	2076.5	2099.0	2102.4	2153.6	2204.8	2256.6	2292.1
30°	1980.3	1976.2	1980.3	1998.7	2023.9	2038.9	2076.5	2144.7	2192.5	2228.0	2261.4
32.5°	1929.1	1925.0	1934.5	1948.2	1992.5	1994.6	2069.0	2133.1	2170.6	2196.6	2190.4
35°	1874.5	1869.0	1877.9	1899.1	1940.0	1955.0	2032.8	2080.6	2122.9	2135.2	2106.5
37.5°	1809.0	1799.4	1810.4	1839.7	1882.7	1926.4	1991.2	2046.5	2069.0	2036.2	2002.1
40°	1740.7	1733.9	1753.0	1768.0	1818.5	1879.3	1953.7	1992.5	1978.2	1940.7	1903.2
42.5°	1680.0	1665.7	1682.7	1711.4	1768.7	1837.6	1897.7	1919.5	1885.4	1830.1	1786.5
45°	1605.6	1588.6	1609.1	1647.3	1708.7	1787.2	1834.2	1826.7	1768.7	1721.0	1660.9
47.5°	1527.8	1507.4	1527.8	1573.6	1642.5	1725.7	1759.9	1725.7	1652.7	1592.7	1544.2
50°	1451.4	1427.5	1447.3	1516.2	1583.8	1647.9	1647.3	1581.1	1537.4	1471.9	1429.6
52.5°	1375.7	1341.6	1361.3	1436.4	1504.0	1577.0	1523.1	1461.7	1409.1	1351.8	1338.1
55°	1282.2	1245.3	1272.0	1381.1	1433.0	1476.0	1390.0	1336.1	1284.2	1255.6	1238.5
57.5°	1193.5	1153.2	1176.4	1305.4	1343.6	1354.5	1275.4	1198.9	1168.2	1158.7	1134.1
60°	1102.0	1056.3	1078.2	1226.9	1253.5	1209.2	1131.4	1072.0	1065.9	1046.8	1027.7
62.5°	1014.7	964.2	977.8	1129.3	1141.6	1061.1	989.4	973.8	958.7	939.6	929.4
65°	914.4	861.8	881.0	1025.6	1014.0	910.3	870.0	866.6	846.8	831.1	846.2
67.5°	822.3	760.2	786.8	912.3	859.8	775.2	758.8	750.6	734.9	743.8	586.2
70°	721.3	653.7	689.9	790.2	712.4	656.4	650.3	638.0	638.7	507.7	427.9
72.5°	608.7	550.0	602.5	656.4	563.6	547.3	538.4	537.0	433.3	352.1	332.3
75°	509.7	450.4	507.0	527.5	449.0	438.1	437.4	361.7	284.6	271.6	265.4
77.5°	397.8	352.1	406.0	375.3	344.6	332.3	298.2	223.8	214.3	205.4	77.1
80°	268.2	271.6	303.0	258.6	245.7	209.5	165.1	158.3	136.5	54.6	43.0
82.5°	163.1	204.7	193.1	161.7	158.3	114.0	104.4	53.2	39.6	31.4	27.3
85°	84.6	103.7	99.6	88.0	65.5	58.7	32.8	25.2	20.5	15.7	13.0
87.5°	28.7	38.2	36.8	29.3	22.5	17.7	11.6	9.6	6.8	5.5	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2291.4	2291.4	2290.1	2291.4	2292.1	2290.7	2290.7	2292.1	2292.8	2293.5	2296.9
5°	2294.8	2296.2	2298.3	2302.3	2303.0	2311.2	2314.6	2316.7	2318.7	2319.4	2314.6
7.5°	2302.3	2307.1	2311.2	2310.5	2305.8	2292.8	2288.7	2285.3	2291.4	2307.1	2325.5
10°	2309.2	2287.3	2246.4	2302.3	2285.3	2301.0	2347.4	2357.6	2389.0	2433.4	2446.3
12.5°	2262.1	2322.1	2335.1	2272.3	2388.3	2345.3	2396.5	2441.6	2454.5	2499.6	2472.3
15°	2312.6	2341.9	2361.7	2424.5	2417.7	2454.5	2468.8	2460.0	2462.0	2473.6	2504.3
17.5°	2311.9	2370.6	2383.6	2425.9	2454.5	2455.2	2451.1	2447.0	2457.9	2466.8	2448.4
20°	2351.5	2370.6	2395.8	2412.9	2418.4	2425.2	2438.1	2427.9	2407.4	2387.6	2379.5
22.5°	2331.7	2374.7	2396.5	2399.2	2395.8	2374.7	2355.6	2326.9	2317.4	2307.1	2310.5
25°	2335.8	2355.6	2352.8	2341.9	2327.6	2288.0	2278.5	2266.2	2247.8	2203.4	2163.1
27.5°	2306.4	2296.2	2283.9	2257.3	2231.4	2210.2	2186.3	2146.8	2114.0	2066.2	2048.5
30°	2257.3	2216.4	2186.3	2170.6	2145.4	2109.9	2073.8	2025.3	1983.7	1974.1	1965.3
32.5°	2163.1	2122.9	2098.3	2060.1	2017.1	1974.8	1933.2	1914.1	1905.2	1906.6	1898.4
35°	2066.9	2031.4	1994.6	1937.3	1905.2	1862.9	1847.9	1843.8	1835.6	1826.7	1817.2
37.5°	1964.6	1922.9	1867.7	1833.6	1801.5	1784.4	1776.9	1770.8	1756.4	1740.7	1729.8
40°	1865.6	1790.6	1759.9	1726.4	1716.9	1709.4	1698.4	1683.4	1663.6	1660.9	1656.1
42.5°	1733.2	1679.3	1652.7	1645.9	1634.3	1621.3	1611.8	1595.4	1587.2	1592.7	1596.8
45°	1607.7	1580.4	1571.5	1563.3	1541.5	1523.1	1516.9	1511.5	1518.3	1548.3	1476.7
47.5°	1506.0	1495.1	1484.2	1470.5	1450.1	1436.4	1442.5	1448.0	1454.2	1233.7	1125.9
50°	1418.0	1403.0	1385.9	1370.9	1358.6	1357.3	1389.3	1293.1	1082.9	1077.5	968.3
52.5°	1321.8	1299.2	1289.0	1280.1	1285.6	1306.1	1080.9	1003.1	962.2	835.9	780.0
55°	1218.0	1198.3	1198.3	1206.4	1177.1	954.0	942.4	814.8	737.7	715.8	706.9
57.5°	1114.3	1112.3	1123.9	1027.7	865.9	830.5	698.1	670.1	657.8	655.1	640.8
60°	1019.5	1038.6	869.4	799.7	695.3	627.1	608.0	604.6	591.6	586.8	573.9
62.5°	943.7	782.7	728.8	595.0	560.2	551.4	541.1	536.4	524.7	463.3	135.8
65°	681.7	644.2	522.7	500.2	497.5	484.5	480.4	431.9	101.7	68.2	58.0
67.5°	514.5	456.5	440.8	436.7	423.8	397.8	118.1	67.6	58.0	50.5	44.4
70°	395.1	384.9	373.3	363.7	107.1	66.9	58.0	49.1	42.3	37.5	34.1
72.5°	323.4	316.6	184.2	70.3	57.3	48.4	43.0	37.5	32.8	30.0	27.3
75°	253.2	70.3	58.0	48.4	41.6	35.5	31.4	28.0	25.2	23.2	21.2
77.5°	57.3	46.4	39.6	33.4	30.0	26.6	23.9	20.5	18.4	16.4	13.6
80°	35.5	30.7	25.9	23.9	20.5	17.1	15.0	13.6	10.9	10.2	8.9
82.5°	23.2	18.4	16.4	13.6	10.9	10.2	8.9	6.8	6.1	5.5	4.8
85°	10.2	8.9	7.5	6.1	4.8	4.1	3.4	2.7	2.7	2.7	2.7
87.5°	3.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2298.3	2310.5	2322.1	2318.7	2306.4	2287.3	2281.9	2274.4	2279.8	2291.4	2296.2
5°	2314.6	2307.8	2332.4	2368.5	2427.2	2432.7	2473.6	2483.2	2515.9	2536.4	2535.7
7.5°	2337.8	2434.7	2475.0	2518.7	2538.5	2533.7	2539.8	2535.0	2527.5	2524.1	2520.0
10°	2455.9	2529.6	2544.6	2544.6	2513.9	2472.3	2454.5	2423.8	2362.4	2363.8	2353.5
12.5°	2524.8	2550.7	2515.2	2485.2	2361.7	2313.9	2262.1	2237.5	2223.2	2201.4	2209.5
15°	2488.6	2451.8	2430.6	2333.7	2258.0	2172.0	2173.4	2158.4	2142.7	2144.0	2133.8
17.5°	2435.4	2406.1	2255.9	2189.1	2152.2	2118.8	2112.6	2092.9	2082.6	2079.2	2078.5
20°	2362.4	2256.6	2144.7	2128.3	2084.0	2045.8	2039.6	2045.8	2077.2	2021.2	1831.5
22.5°	2277.1	2124.9	2092.2	2045.8	2015.7	2000.7	2038.3	1867.7	1609.7	1641.1	1607.7
25°	2132.4	2066.2	2010.3	1974.8	1971.4	1879.3	1566.1	1533.3	1367.5	1278.8	1179.2
27.5°	2026.7	1998.0	1939.3	1933.2	1888.8	1536.7	1373.6	1193.5	1127.3	1117.1	1095.2
30°	1962.5	1921.6	1886.1	1731.2	1507.4	1237.2	1102.0	1076.8	1065.2	1052.9	1033.8
32.5°	1885.4	1846.5	1863.6	1455.5	1201.7	1065.2	1037.9	1019.5	998.3	990.1	921.2
35°	1806.9	1789.2	1456.2	1223.5	1033.1	1000.4	979.9	960.8	764.3	184.9	62.8
37.5°	1723.0	1718.9	1308.8	1015.4	967.6	936.9	878.9	181.5	43.0	29.3	21.8
40°	1657.5	1309.5	1034.5	951.9	913.0	864.6	121.5	30.0	19.1	11.6	7.5
42.5°	1613.8	1177.8	926.0	893.2	808.6	89.4	30.7	13.0	7.5	6.1	4.8
45°	1244.0	930.1	865.3	831.1	102.4	30.7	17.7	6.1	4.8	4.1	2.7
47.5°	1147.8	844.8	806.6	181.5	34.1	16.4	12.3	4.1	2.7	2.7	2.7
50°	869.4	780.6	642.1	44.4	21.8	11.6	8.9	2.7	2.7	2.7	2.0
52.5°	762.2	720.6	68.9	29.3	17.1	8.9	5.5	2.0	2.0	2.0	2.0
55°	696.7	457.2	40.9	22.5	14.3	8.2	3.4	2.0	2.0	2.0	1.4
57.5°	637.3	61.4	30.0	19.1	13.0	7.5	2.0	2.0	2.0	2.0	1.4
60°	540.4	44.4	24.6	17.1	12.3	6.8	2.0	2.0	2.0	2.0	2.0
62.5°	70.3	34.8	21.2	15.0	8.9	5.5	1.4	2.0	2.0	2.0	2.0
65°	51.2	27.3	19.1	10.2	5.5	2.0	1.4	2.0	2.0	2.0	2.0
67.5°	39.6	22.5	14.3	8.9	4.8	1.4	1.4	2.0	2.0	2.0	2.0
70°	31.4	19.1	11.6	7.5	4.1	1.4	1.4	2.0	2.0	2.0	2.0
72.5°	24.6	13.6	8.2	4.1	2.7	1.4	1.4	2.0	2.0	2.0	2.0
75°	18.4	10.9	6.1	3.4	1.4	1.4	1.4	2.0	2.0	2.0	2.0
77.5°	12.3	6.8	4.8	2.7	2.7	2.7	3.4	3.4	2.0	2.0	2.0
80°	8.2	4.8	3.4	3.4	3.4	2.7	3.4	3.4	2.0	3.4	2.0
82.5°	4.1	3.4	3.4	2.7	2.7	2.0	2.7	2.7	2.7	2.7	2.0
85°	2.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.0
87.5°	1.4	1.4	1.4	1.4	2.0	2.0	2.0	2.0	2.7	2.7	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2290.1	2292.1	2286.7	2316.0	2301.0	2302.3	2308.5	2292.8	2296.2	2285.3	2277.8
5°	2538.5	2542.5	2546.6	2548.0	2550.7	2554.1	2550.1	2548.0	2543.9	2530.3	2515.9
7.5°	2499.6	2494.8	2492.7	2495.5	2500.2	2502.3	2498.9	2503.6	2521.4	2528.9	2533.7
10°	2294.8	2273.0	2288.0	2286.0	2268.9	2326.2	2310.5	2319.4	2325.5	2388.3	2426.5
12.5°	2197.3	2210.9	2185.0	2172.0	2189.1	2200.7	2212.3	2187.7	2221.8	2206.1	2256.6
15°	2115.4	2107.2	2104.5	2105.1	2101.7	2118.1	2122.2	2127.7	2132.4	2153.6	2161.8
17.5°	2078.5	2092.2	2097.6	2101.7	2094.9	2087.4	2079.9	2069.0	2072.4	2066.9	2082.6
20°	1703.9	1658.2	1655.5	1682.1	1652.7	1669.1	1708.7	1973.4	1964.6	2067.6	2032.8
22.5°	1422.1	1379.1	1342.2	1310.2	1355.9	1375.0	1448.7	1531.9	1667.1	1645.9	1792.6
25°	1161.4	1145.7	1136.2	1131.4	1134.8	1133.4	1149.8	1188.7	1250.1	1394.8	1581.8
27.5°	1086.3	1078.8	1075.4	1064.5	1072.7	1070.0	1082.9	1091.1	1109.5	1123.9	1184.6
30°	1027.0	1018.1	1012.0	1000.4	1008.6	1009.2	1013.3	1034.5	1042.0	1054.3	1073.4
32.5°	375.3	221.1	207.4	197.2	215.6	281.1	493.4	862.5	984.0	993.5	1015.4
35°	36.8	30.7	27.3	27.3	28.0	30.7	40.9	107.8	197.2	762.2	954.0
37.5°	14.3	12.3	10.2	9.6	10.2	11.6	15.7	20.5	28.0	58.0	258.6
40°	6.1	5.5	4.8	4.8	4.8	4.8	5.5	6.8	10.2	19.1	30.0
42.5°	4.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.8	6.1	12.3
45°	2.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.4	5.5
47.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7
50°	2.0	2.0	2.0	2.0	1.4	2.0	1.4	2.0	2.0	2.0	2.0
52.5°	2.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0
55°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0
57.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	2.0	2.0	1.4	2.0	1.4	1.4	2.0	2.0	2.0	1.4	1.4
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	2.7
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.4	4.1	3.4
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.4	3.4	3.4
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2264.8	2264.1	2278.5	2289.4	2285.3	2289.4	2294.2	2294.8	2296.2	2290.7	2288.7
5°	2488.6	2467.5	2426.5	2397.2	2363.1	2301.0	2270.3	2273.7	2274.4	2272.3	2275.1
7.5°	2531.6	2529.6	2515.2	2509.1	2485.9	2441.6	2370.6	2358.3	2328.3	2309.2	2293.5
10°	2423.8	2472.9	2485.9	2507.7	2521.4	2513.2	2453.2	2444.3	2425.2	2403.3	2408.1
12.5°	2307.1	2347.4	2349.4	2468.2	2494.8	2497.5	2474.3	2486.6	2489.3	2440.2	2411.5
15°	2163.8	2182.9	2223.2	2333.7	2414.3	2464.8	2479.8	2486.6	2453.2	2451.1	2439.5
17.5°	2101.0	2113.3	2131.8	2193.8	2316.0	2390.4	2453.8	2449.1	2462.0	2452.5	2423.1
20°	2021.9	2032.1	2064.9	2096.3	2156.3	2255.3	2374.0	2382.9	2399.9	2397.9	2406.1
22.5°	2020.5	1984.4	1989.8	2014.4	2077.2	2165.9	2292.1	2321.5	2332.4	2339.9	2348.7
25°	1602.9	1890.2	1942.7	1958.4	1999.4	2051.2	2200.0	2210.9	2231.4	2264.8	2289.4
27.5°	1388.6	1583.8	1794.0	1903.2	1929.1	1972.1	2060.8	2077.2	2146.8	2155.0	2193.2
30°	1095.9	1246.7	1560.6	1823.3	1866.3	1896.3	1959.1	1991.9	2021.9	2054.6	2094.9
32.5°	1031.1	1055.0	1229.0	1508.7	1843.1	1820.6	1867.0	1886.8	1919.5	1948.2	1977.5
35°	971.7	988.1	1024.9	1235.8	1501.2	1758.5	1789.9	1802.8	1821.3	1843.1	1864.3
37.5°	909.6	934.2	959.4	1016.1	1388.6	1709.4	1708.7	1723.7	1734.6	1753.0	1770.8
40°	165.1	857.8	898.7	935.5	1076.8	1363.4	1632.3	1639.1	1646.6	1658.2	1676.6
42.5°	26.6	143.3	842.1	877.5	917.8	1220.8	1597.4	1569.5	1564.7	1572.9	1589.3
45°	13.6	34.8	169.2	819.5	855.7	973.8	1306.1	1521.0	1516.2	1500.6	1504.0
47.5°	10.2	21.8	41.6	283.2	801.1	835.9	1205.1	1192.1	1282.9	1456.9	1430.3
50°	8.9	15.0	24.6	58.0	707.6	769.7	928.0	1084.3	1132.1	1138.2	1347.0
52.5°	8.2	10.2	17.7	37.5	148.8	711.7	754.7	809.3	889.8	1062.5	1058.4
55°	7.5	9.6	15.0	25.2	51.9	641.4	685.8	696.0	713.1	795.7	904.8
57.5°	4.1	8.9	14.3	21.8	38.9	117.4	622.3	630.5	644.2	647.6	686.5
60°	2.0	8.2	13.0	19.1	28.7	54.6	559.6	569.1	577.3	578.7	590.9
62.5°	1.4	7.5	10.9	17.7	23.9	38.9	132.4	270.2	513.8	513.8	528.2
65°	1.4	5.5	6.8	11.6	21.8	32.1	56.0	64.8	126.2	310.5	463.3
67.5°	1.4	2.0	6.1	9.6	16.4	24.6	40.9	47.8	57.3	65.5	121.5
70°	1.4	1.4	5.5	6.1	10.2	18.4	29.3	33.4	38.9	44.4	51.2
72.5°	1.4	1.4	4.8	4.8	6.8	12.3	22.5	24.6	28.0	31.4	36.2
75°	3.4	2.7	4.1	4.1	4.8	9.6	17.1	19.1	20.5	23.2	26.6
77.5°	3.4	3.4	3.4	3.4	3.4	6.1	10.9	12.3	14.3	15.7	18.4
80°	2.7	2.7	2.7	3.4	3.4	4.1	6.8	7.5	8.2	10.2	10.9
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.8	6.1
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7	2.7
87.5°	2.0	2.0	2.0	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2288.0	2283.9	2280.5	2282.6	2276.4	2273.7	2275.7	2276.4	2277.8	2281.2	2281.9
5°	2281.9	2280.5	2286.7	2290.1	2288.7	2290.1	2290.1	2287.3	2283.2	2286.0	2279.8
7.5°	2277.8	2268.9	2262.1	2263.5	2256.6	2264.8	2272.3	2283.2	2286.7	2286.7	2279.8
10°	2348.1	2338.5	2300.3	2274.4	2257.3	2242.3	2277.8	2241.6	2258.7	2193.8	2268.2
12.5°	2406.1	2419.0	2402.0	2331.0	2318.7	2273.7	2299.6	2255.3	2242.3	2167.9	2191.8
15°	2429.3	2404.7	2399.2	2379.5	2352.8	2339.9	2270.3	2262.8	2241.6	2249.8	2218.4
17.5°	2408.8	2421.1	2404.7	2391.7	2364.4	2333.7	2292.1	2255.3	2225.9	2160.4	2215.7
20°	2389.0	2405.4	2356.3	2364.4	2367.2	2331.7	2309.9	2279.1	2242.3	2180.9	2133.1
22.5°	2356.3	2344.7	2348.7	2336.5	2326.2	2331.0	2301.0	2279.8	2217.7	2189.8	2124.9
25°	2303.0	2298.9	2309.9	2308.5	2283.9	2275.7	2260.7	2238.2	2213.6	2168.6	2115.4
27.5°	2216.4	2237.5	2256.6	2265.5	2252.5	2230.7	2222.5	2209.5	2192.5	2146.8	2107.2
30°	2124.9	2148.8	2170.6	2189.8	2201.4	2191.8	2184.3	2176.8	2150.9	2120.8	2076.5
32.5°	2020.5	2051.9	2081.9	2105.1	2130.4	2137.9	2132.4	2126.3	2104.5	2077.2	2041.7
35°	1899.7	1942.7	1986.4	2028.0	2038.9	2056.7	2074.4	2064.2	2052.6	2025.3	1992.5
37.5°	1797.4	1828.1	1859.5	1912.0	1950.2	1972.8	2004.1	2008.2	1988.5	1975.5	1932.5
40°	1691.6	1719.6	1765.3	1796.0	1848.6	1874.5	1907.9	1922.9	1918.2	1910.7	1873.1
42.5°	1608.4	1622.0	1652.0	1679.3	1731.2	1784.4	1813.8	1830.1	1847.2	1841.1	1822.0
45°	1519.7	1531.9	1542.2	1566.1	1616.6	1663.6	1699.8	1724.4	1755.1	1769.4	1746.2
47.5°	1431.6	1435.0	1447.3	1467.1	1497.1	1533.3	1594.0	1630.9	1659.5	1687.5	1672.5
50°	1364.1	1351.8	1353.8	1366.1	1390.7	1426.2	1469.8	1521.7	1554.5	1588.6	1592.0
52.5°	1192.1	1291.7	1267.9	1274.7	1287.6	1304.7	1350.4	1401.6	1441.9	1471.2	1500.6
55°	1000.4	1020.2	1211.9	1184.6	1192.8	1207.8	1229.0	1280.1	1319.0	1360.0	1400.9
57.5°	775.9	923.3	930.8	1108.2	1104.1	1105.5	1123.2	1152.5	1191.4	1242.6	1277.4
60°	603.2	665.3	786.1	847.5	1003.1	1008.6	1018.8	1035.9	1069.3	1117.7	1173.0
62.5°	532.3	540.4	583.4	675.6	776.5	898.7	920.5	923.3	938.3	986.7	1050.9
65°	467.4	472.9	485.9	495.4	580.0	698.1	803.2	820.2	829.8	858.4	913.0
67.5°	322.1	407.4	419.0	425.8	434.0	488.6	618.9	705.6	716.5	741.7	789.5
70°	62.1	129.0	352.8	360.3	364.4	376.7	397.8	535.7	608.0	631.9	653.7
72.5°	42.3	49.8	60.0	141.9	300.2	307.1	311.8	329.6	451.7	521.3	532.9
75°	30.7	34.1	40.3	49.8	61.4	199.9	247.7	256.6	265.4	366.4	425.1
77.5°	21.8	24.6	27.3	32.1	37.5	48.4	69.6	191.7	200.6	205.4	290.0
80°	12.3	15.0	18.4	21.2	23.9	27.3	35.5	44.4	98.9	144.7	152.2
82.5°	6.8	8.2	9.6	11.6	13.0	16.4	19.8	23.9	31.4	46.4	98.3
85°	3.4	3.4	3.4	4.8	5.5	7.5	8.9	10.2	14.3	19.8	27.3
87.5°	2.0	2.0	2.7	2.7	2.7	3.4	3.4	3.4	4.1	6.1	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2282.6	2280.5	2280.5	2288.7	2286.7
5°	2278.5	2276.4	2275.7	2284.6	2280.5
7.5°	2275.1	2267.5	2265.5	2273.7	2270.3
10°	2261.4	2255.9	2259.4	2256.6	2255.3
12.5°	2238.2	2234.8	2220.5	2221.8	2233.4
15°	2196.6	2210.2	2185.7	2207.5	2212.3
17.5°	2120.2	2150.9	2174.7	2187.7	2189.8
20°	2154.3	2164.5	2152.2	2152.9	2161.1
22.5°	2109.9	2114.7	2118.1	2114.0	2131.8
25°	2038.9	2020.5	2060.1	2068.3	2097.0
27.5°	2017.1	2002.1	2020.5	2019.2	2043.0
30°	1999.4	1950.9	1959.1	1972.1	2001.4
32.5°	1974.1	1897.7	1889.5	1918.2	1950.9
35°	1929.8	1857.4	1838.3	1856.8	1905.9
37.5°	1892.2	1801.5	1763.3	1787.8	1852.0
40°	1836.3	1757.8	1698.4	1720.3	1796.0
42.5°	1769.4	1720.3	1628.8	1643.9	1730.5
45°	1701.9	1658.2	1561.3	1568.8	1671.8
47.5°	1632.9	1592.7	1491.0	1492.4	1596.8
50°	1565.4	1512.2	1428.2	1404.3	1516.9
52.5°	1477.4	1428.2	1364.8	1325.9	1441.2
55°	1394.1	1338.8	1292.4	1232.4	1355.2
57.5°	1312.9	1251.5	1220.1	1143.0	1257.6
60°	1201.7	1172.3	1125.9	1052.2	1169.6
62.5°	1087.7	1078.2	1031.1	954.6	1061.1
65°	954.6	977.2	928.7	863.2	948.5
67.5°	829.1	869.4	816.1	775.9	840.0
70°	695.3	741.7	711.7	697.4	724.7
72.5°	563.6	608.7	611.4	601.2	610.0
75°	435.4	485.2	512.5	496.8	498.8
77.5°	330.3	354.2	384.2	396.5	393.7
80°	204.0	245.7	270.2	295.5	286.6
82.5°	103.0	137.8	167.9	195.2	182.2
85°	43.0	55.3	77.1	101.7	97.6
87.5°	13.0	21.8	23.2	32.8	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)