

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213756

Luminaire Tested: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

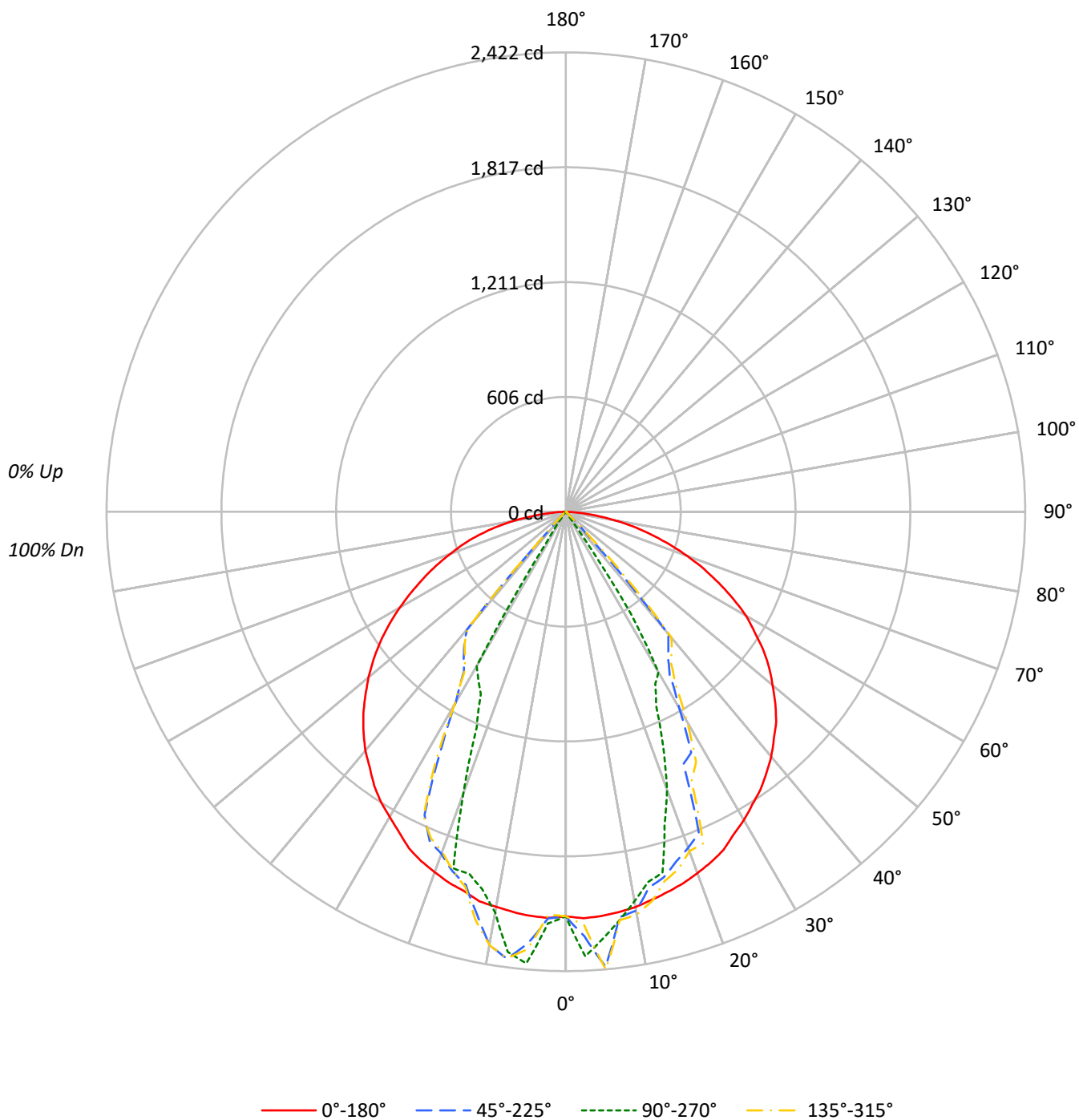
Lumens per Lamp: N/A
Luminaire Lumens: 3033.0 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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: 24 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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	103	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76		83	79	75		80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	69		76	72	68		74	70	67	65
5	85	75	68	63	84	74	68	63	72	66	62		71	65	61		69	64	61	59
6	80	69	62	57	79	69	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44		53	48	44		52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41		50	44	41		49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17237	17237	17237	17237
5°	17307	17728	17302	18774
10°	17266	16042	17256	16505
15°	17219	14973	17176	15012
20°	17239	11794	17190	11939
25°	17288	8535	17204	8054
30°	17210	7487	17028	7197
35°	17261	165	17007	200
40°	17320	36	16906	36
45°	17381	22	16728	16
50°	17249	17	16457	17
55°	17147	12	16094	12
60°	16822	13	15508	13
65°	15946	20	14811	14
70°	14794	22	14082	22
75°	13086	25	13299	25
80°	10630	28	11235	28
85°	6251	33	6388	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 18768 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	7.1
10°-20°	583.7	19.2
20°-30°	742.8	24.5
30°-40°	627.4	20.7
40°-50°	410.2	13.5
50°-60°	258.5	8.5
60°-70°	137.6	4.5
70°-80°	50.2	1.7
80°-90°	8.6	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°	1540.5	50.8
0°-40°	2167.9	71.5
0°-60°	2836.6	93.5
0°-90°	3033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2133	2133	2133	2133	2133	
5°	2139	2257	2139	2390	2139	203
15°	2075	1970	2070	1975	2075	587
25°	1967	1125	1958	1061	1967	905
35°	1788	21	1762	26	1788	1119
45°	1568	3	1510	2	1568	1206
55°	1271	1	1193	1	1271	1133
65°	890	2	826	1	890	881
75°	468	2	476	2	468	497
85°	92	2	94	2	92	116
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°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2145.2	2146.5	2147.1	2148.4	2150.3	2151.0	2152.2	2151.0	2151.0	2151.0	2151.0
5°	2139.4	2142.0	2143.9	2146.5	2151.0	2151.6	2156.7	2157.4	2159.9	2165.0	2168.9
7.5°	2129.8	2132.4	2136.2	2142.6	2149.0	2156.1	2165.0	2174.6	2188.1	2200.9	2216.9
10°	2115.7	2118.9	2123.4	2129.2	2160.6	2165.0	2184.9	2212.4	2220.1	2260.4	2290.5
12.5°	2095.3	2106.1	2117.7	2122.8	2152.9	2200.2	2266.8	2253.4	2238.7	2370.5	2368.6
15°	2075.4	2090.1	2084.4	2126.0	2153.5	2236.1	2207.9	2268.1	2378.2	2351.3	2352.6
17.5°	2054.3	2057.5	2089.5	2124.1	2173.4	2215.6	2250.2	2332.8	2354.5	2356.5	2332.8
20°	2027.4	2042.8	2089.5	2120.9	2204.1	2223.9	2298.8	2341.1	2332.1	2310.4	2270.0
22.5°	1999.9	2046.6	2094.0	2138.2	2196.4	2249.5	2286.7	2306.5	2259.8	2174.0	2127.9
25°	1967.2	1994.8	2056.9	2121.5	2194.5	2225.2	2247.0	2215.0	2154.2	2077.3	1999.9
27.5°	1916.7	1960.8	2040.2	2113.2	2179.1	2216.3	2181.0	2104.2	2006.3	1955.7	1920.5
30°	1877.6	1935.2	2000.5	2070.9	2139.4	2161.2	2071.6	1983.9	1916.7	1866.1	1858.4
32.5°	1830.2	1912.2	1974.3	2041.5	2099.1	2070.3	1983.2	1869.9	1814.2	1795.0	1802.7
35°	1788.0	1850.1	1931.4	1997.3	2038.9	1974.3	1836.6	1766.2	1739.3	1750.2	1736.1
37.5°	1737.4	1819.4	1894.3	1951.2	1937.1	1839.8	1723.3	1678.5	1681.7	1672.8	1645.9
40°	1684.9	1763.0	1841.1	1894.9	1845.6	1697.1	1619.6	1610.0	1611.9	1583.1	1544.7
42.5°	1623.5	1694.5	1772.6	1821.3	1715.0	1599.1	1546.6	1547.9	1531.3	1490.9	1470.5
45°	1568.4	1633.7	1715.0	1719.5	1588.9	1492.2	1476.9	1460.2	1423.1	1409.6	1394.3
47.5°	1498.0	1570.3	1637.5	1613.2	1465.3	1405.2	1393.6	1357.2	1338.6	1328.3	1315.5
50°	1423.1	1496.1	1557.5	1488.4	1348.8	1334.7	1297.0	1268.2	1255.4	1244.5	1233.0
52.5°	1352.0	1412.2	1474.9	1355.9	1259.2	1245.8	1202.9	1186.2	1173.4	1161.3	1158.7
55°	1271.4	1324.5	1367.4	1229.8	1173.4	1142.1	1111.3	1099.8	1087.6	1081.9	1091.5
57.5°	1179.8	1240.0	1233.6	1105.6	1080.6	1035.1	1023.6	1015.9	1007.0	1010.8	930.8
60°	1097.2	1143.3	1112.0	1014.7	972.4	941.7	931.4	926.3	931.4	853.3	750.3
62.5°	995.5	1047.3	983.9	908.4	863.6	848.9	839.9	846.9	772.0	686.3	661.3
65°	889.8	946.2	852.7	794.4	766.3	753.5	752.8	693.3	619.7	586.4	586.4
67.5°	788.0	846.3	725.9	677.3	666.4	667.7	630.6	540.3	519.8	497.4	432.8
70°	679.9	731.1	599.8	570.4	564.0	559.5	469.2	444.9	420.6	361.1	355.9
72.5°	572.3	597.3	482.0	475.0	473.7	393.7	375.8	334.2	306.0	299.0	295.8
75°	468.0	460.3	380.9	387.3	326.5	298.3	269.5	245.2	241.3	238.8	59.5
77.5°	369.4	331.0	300.2	261.2	233.7	198.5	192.7	188.8	124.2	44.8	36.5
80°	268.9	214.5	199.7	169.6	144.7	138.9	142.1	43.5	34.6	28.8	25.0
82.5°	170.9	137.0	112.0	97.9	95.4	41.6	30.7	25.0	21.8	18.6	15.4
85°	91.5	60.8	56.3	47.4	28.2	19.2	16.0	12.2	10.2	8.3	7.7
87.5°	28.8	24.3	19.8	16.0	9.6	6.4	5.1	4.5	3.8	3.2	3.2
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°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2149.7	2151.0	2150.3	2152.2	2152.2	2154.8	2156.7	2158.6	2162.5	2164.4	2179.1
5°	2177.2	2180.4	2190.0	2199.0	2209.9	2213.1	2231.6	2236.1	2257.9	2260.4	2332.1
7.5°	2238.7	2250.8	2273.9	2296.9	2320.0	2334.7	2360.3	2376.3	2393.6	2408.9	2465.9
10°	2312.9	2333.4	2355.8	2378.9	2392.3	2420.5	2435.8	2438.4	2433.9	2408.9	2316.8
12.5°	2385.9	2406.4	2396.8	2401.3	2417.3	2367.3	2374.4	2338.5	2363.5	2239.9	2148.4
15°	2375.7	2374.4	2350.7	2273.9	2286.7	2191.3	2152.9	2123.4	2147.1	2134.3	2120.2
17.5°	2344.9	2286.7	2245.7	2153.5	2114.5	2087.6	2088.2	2088.9	2077.3	2089.5	2053.7
20°	2215.0	2149.7	2088.9	2056.2	2044.7	2025.5	2035.1	2025.5	2026.1	2030.0	1974.9
22.5°	2042.1	2022.3	1987.1	1997.3	1993.5	2010.8	1998.0	1978.1	1984.5	1955.7	1914.1
25°	1972.4	1949.3	1948.0	1951.9	1946.1	1938.4	1926.9	1896.8	1894.9	1885.9	1866.7
27.5°	1901.9	1903.2	1907.1	1895.5	1875.0	1859.7	1842.4	1827.7	1833.4	1823.2	1796.9
30°	1853.3	1852.6	1829.6	1819.4	1781.6	1782.2	1777.7	1768.8	1763.0	1763.7	1747.0
32.5°	1784.1	1764.3	1738.1	1725.2	1722.0	1710.5	1701.6	1703.5	1708.0	1692.0	1709.2
35°	1713.1	1672.1	1668.3	1657.4	1647.1	1639.5	1642.7	1629.9	1629.2	1627.3	1486.5
37.5°	1617.7	1597.9	1595.9	1584.4	1577.4	1575.4	1563.3	1565.2	1571.0	1581.2	1267.5
40°	1539.0	1521.0	1516.6	1515.9	1500.5	1499.3	1502.5	1514.6	1523.0	1458.9	1208.0
42.5°	1454.5	1455.7	1441.7	1432.7	1434.6	1440.4	1455.7	1413.5	1224.6	1167.0	1104.3
45°	1382.1	1375.7	1368.0	1365.5	1382.1	1370.6	1201.6	1108.8	1086.4	1083.8	907.8
47.5°	1306.6	1304.7	1301.5	1303.4	1208.6	1077.4	1039.0	1026.8	1030.7	1028.1	779.7
50°	1230.4	1233.0	1233.0	1076.8	988.4	966.7	969.9	980.7	912.9	852.1	726.6
52.5°	1164.5	1144.6	980.7	924.4	904.6	914.2	891.1	806.0	744.5	708.7	672.2
55°	1042.2	896.2	859.7	850.8	857.8	772.7	720.2	665.1	649.1	645.3	624.2
57.5°	820.1	790.6	793.8	758.0	676.7	628.6	607.5	599.8	592.8	587.7	51.2
60°	725.3	733.6	671.5	594.7	562.1	555.7	550.5	543.5	542.2	533.3	32.6
62.5°	663.9	583.8	530.1	510.9	503.2	501.2	491.6	488.4	414.8	57.0	24.3
65°	500.6	468.0	457.7	453.2	444.9	444.9	369.4	58.3	47.4	41.0	21.8
67.5°	408.4	405.9	400.7	395.0	268.9	56.3	49.3	42.9	37.1	32.6	19.2
70°	345.7	344.4	313.7	57.6	48.0	42.3	37.1	33.3	30.7	27.5	17.3
72.5°	283.6	57.6	48.7	42.3	36.5	33.3	30.1	26.9	24.3	22.4	14.1
75°	44.2	39.1	34.6	31.4	28.8	25.6	23.0	21.1	20.5	17.9	9.6
77.5°	32.0	27.5	25.0	22.4	19.8	17.9	15.4	13.4	12.2	10.2	7.0
80°	22.4	19.8	17.9	14.7	12.8	10.9	9.6	8.3	7.7	6.4	3.2
82.5°	12.8	10.9	9.6	7.7	7.0	5.8	5.1	4.5	4.5	3.2	3.2
85°	5.8	5.8	4.5	3.8	3.2	3.2	3.2	2.6	2.6	1.9	1.9
87.5°	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9	1.9	1.9	1.3
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°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2199.6	2207.9	2223.9	2240.6	2222.0	2288.6	2283.5	2305.9	2318.0	2323.8	2337.2
5°	2395.5	2432.6	2444.8	2408.3	2387.2	2365.4	2316.1	2279.0	2283.5	2271.3	2227.1
7.5°	2391.7	2312.3	2205.4	2156.7	2152.9	2147.1	2162.5	2171.4	2172.7	2172.1	2170.8
10°	2189.4	2148.4	2141.4	2135.0	2137.5	2113.8	2102.9	2072.2	2088.9	2079.9	2083.1
12.5°	2127.9	2118.3	2080.5	2028.0	2059.4	2035.7	2022.3	2031.2	2021.0	2011.4	2008.2
15°	2091.4	2029.3	2008.2	1995.4	1986.4	1981.3	1985.8	1975.6	1972.4	1970.4	1974.9
17.5°	2015.9	1990.9	1967.9	1933.9	1934.6	1932.7	1945.5	1964.7	1965.9	1867.4	1778.4
20°	1956.3	1935.9	1906.4	1885.3	1914.1	1862.9	1665.1	1571.0	1556.2	1556.2	1558.8
22.5°	1909.0	1863.5	1865.4	1832.2	1562.6	1507.6	1508.9	1514.6	1488.4	1398.8	1389.2
25°	1844.3	1837.3	1697.1	1466.6	1468.5	1425.6	1359.7	1266.9	1166.4	1166.4	1149.7
27.5°	1795.7	1646.5	1441.7	1432.1	1288.0	1197.1	1140.8	1055.6	1044.1	1033.2	1034.5
30°	1754.1	1393.0	1398.1	1197.1	1090.8	1015.3	1010.8	996.7	989.7	987.8	980.7
32.5°	1386.6	1356.5	1170.2	1019.1	977.5	965.4	959.6	943.6	943.0	930.8	846.3
35°	1300.2	1190.7	979.5	938.5	926.3	914.8	905.2	607.5	71.7	28.8	25.0
37.5°	1201.6	994.8	905.8	887.3	875.7	647.2	64.7	22.4	16.0	11.5	10.2
40°	1018.5	888.6	860.4	839.9	346.3	22.4	14.1	10.9	6.4	5.8	5.1
42.5°	859.1	837.3	807.2	245.8	25.6	10.9	7.0	5.1	4.5	4.5	3.8
45°	804.0	784.8	325.2	24.3	16.0	5.1	4.5	4.5	3.8	2.6	2.6
47.5°	752.8	662.6	29.4	15.4	10.2	4.5	3.8	2.6	2.6	2.6	1.9
50°	698.4	36.5	20.5	11.5	6.4	2.6	2.6	2.6	2.6	1.9	1.9
52.5°	130.6	25.6	16.6	10.2	3.2	2.6	2.6	2.6	1.9	1.9	1.9
55°	30.7	20.5	15.4	9.0	2.6	2.6	2.6	1.9	1.9	1.9	1.3
57.5°	23.0	15.4	12.2	8.3	2.6	1.9	1.9	1.9	1.9	1.9	1.3
60°	19.2	10.9	9.6	7.7	1.9	1.9	1.9	1.9	1.9	1.9	1.3
62.5°	13.4	9.0	7.0	5.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	10.9	7.0	5.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	9.6	5.8	3.8	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	7.7	1.9	1.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	6.4	1.9	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	6.4	3.2	1.3	1.3	1.9	1.9	2.6	2.6	1.9	1.9	1.9
77.5°	4.5	3.2	1.3	1.3	1.9	1.9	2.6	2.6	1.9	1.9	1.9
80°	2.6	3.2	1.3	1.9	1.9	3.8	4.5	2.6	1.9	1.9	1.9
82.5°	2.6	3.2	3.8	3.8	1.9	3.2	3.8	3.2	2.6	1.9	1.9
85°	2.6	1.9	2.6	3.2	1.9	3.2	3.2	2.6	2.6	1.9	1.9
87.5°	1.3	1.9	1.9	2.6	2.6	2.6	3.2	2.6	2.6	2.6	1.9
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: P1213756

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2343.6	2346.2	2305.9	2291.8	2304.0	2301.4	2290.5	2250.2	2245.7	2218.8	2179.8
5°	2239.9	2257.2	2236.1	2272.6	2255.3	2272.6	2325.1	2349.4	2389.1	2413.4	2422.4
7.5°	2167.6	2171.4	2171.4	2174.6	2177.8	2178.5	2174.6	2172.1	2161.2	2147.8	2172.1
10°	2079.9	2084.4	2092.1	2090.8	2090.1	2103.6	2106.8	2134.3	2133.0	2138.2	2156.7
12.5°	2034.4	1999.9	2031.2	2022.9	2034.4	2016.5	2049.8	2044.0	2046.0	2061.3	2101.0
15°	1958.9	1969.8	1977.5	1977.5	1982.0	1978.1	1974.3	2000.5	2016.5	2017.2	2014.6
17.5°	1813.6	1731.0	1815.5	1793.7	1967.2	1971.7	1957.0	1944.8	1944.8	1954.4	1974.9
20°	1556.9	1558.8	1559.4	1567.8	1578.0	1577.4	1578.0	1830.2	1949.9	1922.4	1903.9
22.5°	1364.8	1341.1	1385.3	1382.1	1437.2	1498.0	1556.2	1550.5	1554.3	1732.3	1892.3
25°	1094.0	1124.8	1099.8	1110.7	1172.8	1245.1	1289.9	1407.1	1534.5	1525.5	1567.1
27.5°	1030.0	1021.7	1033.2	1033.2	1041.5	1051.2	1076.1	1142.1	1255.4	1374.4	1487.1
30°	969.2	976.3	977.5	989.1	995.5	1001.9	1005.7	1030.7	1056.3	1138.9	1277.8
32.5°	727.9	638.2	839.9	894.3	940.4	951.3	959.0	969.2	987.8	999.9	1069.7
35°	21.1	21.1	22.4	25.6	32.6	220.2	838.6	924.4	936.6	951.9	964.7
37.5°	10.2	7.7	9.0	9.6	11.5	16.0	23.0	71.7	798.3	902.6	916.7
40°	4.5	4.5	4.5	4.5	5.1	6.4	9.6	16.0	24.3	642.1	866.1
42.5°	3.8	3.8	3.8	3.8	3.8	3.8	4.5	5.8	11.5	27.5	454.5
45°	2.6	2.6	1.9	2.6	2.6	3.2	3.8	3.8	5.1	17.3	31.4
47.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.2	3.8	11.5	16.6
50°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	9.0	11.5
52.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	10.2
55°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	2.6	9.0
57.5°	1.3	1.3	1.3	1.3	1.3	1.9	1.3	1.3	1.9	1.9	8.3
60°	1.3	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	7.7
62.5°	1.9	1.9	1.3	1.9	1.3	1.3	1.9	1.9	1.9	1.9	5.1
65°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.9
67.5°	1.9	1.9	1.9	1.9	1.3	1.9	1.3	1.9	1.9	1.3	1.3
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3	1.3	1.3
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3	1.3	1.3
75°	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	1.3	1.3	1.3
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.2	3.8	3.2	3.2	1.3
80°	1.9	1.9	1.9	1.9	1.9	1.9	3.2	3.2	3.2	3.2	4.5
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6	2.6	3.2
85°	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6	1.9	2.6
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	1.9	1.9	1.9
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: P1213756

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2183.0	2161.2	2154.2	2139.4	2138.2	2139.4	2136.2	2131.8	2134.3	2129.8	2126.0
5°	2427.5	2369.3	2331.5	2280.9	2211.1	2195.8	2191.9	2170.2	2162.5	2159.9	2149.7
7.5°	2229.7	2336.0	2400.0	2421.7	2339.8	2320.6	2298.2	2280.3	2263.0	2230.3	2210.5
10°	2142.0	2147.1	2208.6	2280.3	2396.8	2412.8	2424.9	2385.9	2375.0	2291.8	2273.9
12.5°	2121.5	2122.1	2129.2	2172.7	2264.3	2274.5	2317.4	2340.4	2368.6	2384.6	2371.8
15°	2028.0	2079.9	2118.3	2122.1	2130.5	2148.4	2161.2	2241.2	2275.1	2366.1	2360.9
17.5°	1984.5	2001.2	2056.9	2102.3	2094.6	2088.2	2098.5	2109.3	2142.0	2232.9	2231.6
20°	1912.2	1965.3	1995.4	2042.8	2085.7	2087.6	2076.1	2069.7	2056.9	2071.6	2085.0
22.5°	1881.4	1889.8	1946.1	1979.4	2028.0	2045.3	2047.9	2048.5	2041.5	2033.8	2030.0
25°	1878.2	1852.0	1880.8	1922.4	1958.3	1976.8	1998.0	2005.0	2002.4	2002.4	1998.6
27.5°	1537.0	1843.7	1828.3	1855.8	1899.4	1912.2	1923.1	1944.8	1958.3	1967.9	1972.4
30°	1464.1	1519.1	1787.3	1791.2	1835.4	1834.1	1846.2	1864.2	1881.4	1903.9	1909.6
32.5°	1295.1	1430.1	1636.3	1726.5	1772.6	1777.1	1783.5	1788.6	1804.6	1829.6	1851.4
35°	1037.7	1302.7	1402.0	1695.8	1704.1	1713.1	1716.9	1729.1	1734.2	1744.5	1763.7
37.5°	939.1	1076.8	1345.0	1466.6	1625.4	1633.1	1653.5	1658.7	1667.0	1675.3	1690.0
40°	882.1	919.9	1119.6	1309.8	1562.0	1567.1	1574.2	1587.0	1587.6	1597.2	1610.7
42.5°	836.7	861.0	919.3	1250.9	1517.2	1516.6	1499.9	1508.2	1512.1	1522.3	1540.9
45°	668.3	807.9	845.0	1021.7	1208.0	1295.1	1462.1	1434.6	1434.0	1437.8	1457.7
47.5°	33.9	759.9	786.1	843.1	1140.8	1144.0	1165.7	1348.8	1377.0	1368.0	1370.0
50°	23.0	52.5	732.3	758.6	983.3	1062.7	1078.7	1087.0	1192.6	1310.4	1291.2
52.5°	17.9	30.1	448.8	704.2	798.9	857.2	960.2	1019.1	1025.5	1072.9	1233.6
55°	16.0	23.0	48.7	649.8	679.2	692.0	752.2	855.3	938.5	963.4	965.4
57.5°	14.1	21.1	33.3	293.8	617.8	620.3	630.6	666.4	741.3	809.8	887.3
60°	12.8	18.6	26.2	50.6	561.4	567.8	569.7	579.4	588.3	635.0	724.0
62.5°	7.7	14.7	23.0	36.5	444.3	510.2	509.6	516.0	524.3	529.4	547.3
65°	6.4	11.5	19.8	30.7	54.4	67.9	412.3	458.4	463.5	470.5	473.7
67.5°	5.8	10.2	14.7	24.3	41.0	46.7	53.8	66.6	363.6	409.7	416.1
70°	5.1	7.0	12.2	20.5	33.3	35.8	40.3	46.1	54.4	67.2	329.0
72.5°	3.2	5.1	8.3	14.7	25.6	28.8	31.4	35.2	39.1	46.7	53.8
75°	1.3	3.8	7.0	10.9	19.8	21.8	23.7	26.2	29.4	34.6	38.4
77.5°	1.3	3.2	5.8	7.7	12.8	14.7	17.3	19.2	21.8	24.3	28.2
80°	4.5	2.6	3.8	5.8	9.0	9.6	10.9	12.2	14.1	16.0	18.6
82.5°	3.2	3.8	4.5	3.8	4.5	5.8	6.4	7.7	8.3	9.6	10.2
85°	2.6	2.6	3.2	3.2	3.2	3.2	3.2	3.2	3.8	4.5	5.8
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6
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: P1213756

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2126.0	2124.7	2120.9	2120.9	2120.2	2122.8	2124.7	2126.6	2126.0	2129.8	2126.0
5°	2142.0	2138.8	2133.0	2127.9	2126.0	2127.3	2125.4	2127.3	2124.7	2127.9	2122.1
7.5°	2186.2	2175.3	2152.9	2143.9	2132.4	2131.8	2126.0	2124.7	2120.9	2120.9	2113.8
10°	2264.3	2211.8	2205.4	2178.5	2168.9	2122.1	2132.4	2115.1	2113.2	2104.9	2101.7
12.5°	2328.3	2287.3	2275.1	2251.5	2224.6	2129.8	2151.0	2113.8	2111.9	2095.3	2078.0
15°	2329.6	2353.2	2320.0	2254.7	2248.9	2183.6	2140.7	2127.9	2111.3	2061.3	2069.7
17.5°	2254.7	2309.1	2325.1	2311.0	2270.0	2225.9	2165.7	2140.1	2090.1	2067.7	2052.4
20°	2133.0	2188.1	2256.6	2261.1	2286.7	2255.3	2176.6	2135.0	2074.8	2035.7	2022.9
22.5°	2036.4	2076.7	2155.4	2191.9	2223.3	2234.2	2184.2	2122.8	2047.9	2010.1	2002.4
25°	1985.2	1994.1	2017.8	2060.7	2129.8	2179.8	2186.8	2121.5	2082.5	1999.9	1956.3
27.5°	1966.6	1958.9	1949.3	1971.1	2022.9	2083.7	2124.1	2135.0	2037.6	1958.9	1915.4
30°	1919.2	1923.7	1909.0	1901.3	1935.2	1998.0	2069.7	2087.6	2012.7	1931.4	1881.4
32.5°	1861.0	1868.6	1871.2	1857.8	1850.7	1894.3	1971.7	2014.6	2010.8	1892.3	1836.6
35°	1788.0	1809.7	1815.5	1816.2	1804.6	1797.6	1842.4	1931.4	1965.3	1874.4	1793.7
37.5°	1711.2	1717.6	1748.9	1757.3	1757.3	1736.1	1769.4	1840.5	1887.8	1834.1	1741.3
40°	1615.1	1635.6	1665.1	1679.8	1694.5	1696.4	1677.9	1727.8	1805.9	1792.5	1692.0
42.5°	1545.4	1558.8	1576.7	1596.6	1626.7	1634.3	1615.1	1624.1	1705.4	1740.6	1627.9
45°	1464.1	1482.0	1487.1	1508.9	1540.2	1562.6	1562.0	1543.4	1608.7	1652.3	1581.2
47.5°	1380.8	1398.1	1407.1	1418.0	1441.0	1469.8	1485.8	1477.5	1490.3	1575.4	1519.1
50°	1295.1	1304.7	1322.6	1334.7	1350.1	1366.8	1405.2	1412.8	1394.9	1462.8	1450.6
52.5°	1213.8	1217.0	1229.1	1241.3	1261.8	1273.9	1304.7	1327.7	1326.4	1346.3	1374.4
55°	1150.4	1136.3	1138.9	1148.5	1161.9	1180.5	1197.8	1233.6	1245.8	1249.6	1294.4
57.5°	898.8	1043.5	1056.3	1055.6	1071.6	1080.0	1096.0	1119.6	1163.2	1153.6	1203.5
60°	816.9	832.9	953.8	967.9	973.7	981.4	1000.6	1022.3	1054.4	1074.8	1096.6
62.5°	622.9	720.2	756.7	863.6	880.2	884.7	897.5	907.8	941.0	987.8	978.8
65°	482.0	523.7	635.0	678.6	769.5	781.0	798.9	809.8	819.4	873.2	875.7
67.5°	416.7	423.1	453.2	537.1	594.7	683.7	694.6	704.2	718.9	757.3	781.0
70°	355.9	363.6	371.9	379.0	453.9	512.8	595.4	598.6	608.2	633.8	687.5
72.5°	67.2	304.1	309.2	313.7	322.0	361.1	439.8	503.8	507.7	519.8	569.1
75°	45.5	53.1	73.0	250.9	259.3	261.8	275.3	355.3	414.2	416.7	438.5
77.5°	32.6	36.5	44.2	52.5	133.8	201.0	204.2	218.9	279.8	323.9	327.8
80°	22.4	25.0	29.4	33.3	41.0	53.8	148.5	153.0	160.7	221.5	233.0
82.5°	12.8	14.7	17.3	21.1	24.3	30.7	39.7	51.2	104.3	111.4	147.9
85°	6.4	7.0	8.3	10.2	12.2	14.7	19.8	24.3	33.3	60.2	62.1
87.5°	3.2	3.2	3.2	3.2	5.1	5.8	7.0	9.0	11.5	17.3	22.4
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: P1213756

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2126.6	2135.6	2143.3	2145.2	2145.2	2146.5	2148.4	2149.7	2151.0	2152.2	2151.0
5°	2122.8	2132.4	2138.8	2140.7	2140.7	2144.6	2147.8	2151.6	2153.5	2153.5	2152.2
7.5°	2113.2	2120.2	2128.6	2133.7	2134.3	2140.7	2146.5	2145.8	2148.4	2149.7	2152.9
10°	2100.4	2100.4	2114.5	2118.3	2121.5	2128.6	2130.5	2134.3	2143.3	2144.6	2152.9
12.5°	2094.0	2087.6	2104.2	2106.1	2117.0	2108.1	2119.6	2123.4	2114.5	2126.6	2110.6
15°	2065.2	2072.9	2070.3	2076.1	2095.3	2085.0	2116.4	2106.1	2129.2	2101.7	2150.3
17.5°	2041.5	2040.2	2050.5	2055.6	2059.4	2081.2	2089.5	2101.0	2110.0	2102.3	2121.5
20°	2024.2	2014.0	2021.6	2027.4	2040.8	2057.5	2062.6	2045.3	2075.4	2126.6	2138.8
22.5°	1991.6	1984.5	1993.5	1993.5	2014.0	2011.4	2030.6	2019.7	2047.9	2107.4	2169.5
25°	1947.4	1948.0	1957.6	1969.2	1973.0	2001.8	2012.0	2026.1	2061.3	2132.4	2170.2
27.5°	1902.6	1898.7	1904.5	1928.2	1948.0	1969.2	1972.4	2020.4	2068.4	2117.0	2150.3
30°	1857.8	1853.9	1857.8	1875.0	1898.7	1912.8	1948.0	2012.0	2056.9	2090.1	2121.5
32.5°	1809.7	1805.9	1814.9	1827.7	1869.3	1871.2	1941.0	2001.2	2036.4	2060.7	2054.9
35°	1758.5	1753.4	1761.7	1781.6	1820.0	1834.1	1907.1	1951.9	1991.6	2003.1	1976.2
37.5°	1697.1	1688.1	1698.4	1725.9	1766.2	1807.2	1868.0	1919.9	1941.0	1910.3	1878.2
40°	1633.1	1626.7	1644.6	1658.7	1706.0	1763.0	1832.8	1869.3	1855.8	1820.6	1785.4
42.5°	1576.1	1562.6	1578.6	1605.5	1659.3	1724.0	1780.3	1800.8	1768.8	1716.9	1676.0
45°	1506.3	1490.3	1509.5	1545.4	1603.0	1676.6	1720.8	1713.7	1659.3	1614.5	1558.2
47.5°	1433.3	1414.1	1433.3	1476.2	1540.9	1619.0	1651.0	1619.0	1550.5	1494.1	1448.7
50°	1361.6	1339.2	1357.8	1422.4	1485.8	1546.0	1545.4	1483.3	1442.3	1380.8	1341.1
52.5°	1290.6	1258.6	1277.1	1347.5	1410.9	1479.4	1428.9	1371.2	1321.9	1268.2	1255.4
55°	1202.9	1168.3	1193.3	1295.7	1344.3	1384.7	1304.0	1253.4	1204.8	1177.9	1161.9
57.5°	1119.6	1081.9	1103.6	1224.6	1260.5	1270.7	1196.5	1124.8	1096.0	1087.0	1064.0
60°	1033.9	991.0	1011.5	1151.0	1176.0	1134.4	1061.4	1005.7	999.9	982.0	964.1
62.5°	951.9	904.6	917.4	1059.5	1071.0	995.5	928.2	913.5	899.4	881.5	871.9
65°	857.8	808.5	826.5	962.2	951.3	854.0	816.2	813.0	794.4	779.7	793.8
67.5°	771.4	713.1	738.1	855.9	806.6	727.2	711.9	704.2	689.5	697.8	549.9
70°	676.7	613.3	647.2	741.3	668.3	615.8	610.1	598.6	599.2	476.3	401.4
72.5°	571.0	516.0	565.3	615.8	528.8	513.4	505.1	503.8	406.5	330.3	311.8
75°	478.2	422.5	475.6	494.8	421.2	411.0	410.3	339.3	266.9	254.8	249.0
77.5°	373.2	330.3	380.9	352.1	323.3	311.8	279.8	210.0	201.0	192.7	72.3
80°	251.6	254.8	284.2	242.6	230.5	196.5	154.9	148.5	128.0	51.2	40.3
82.5°	153.0	192.0	181.2	151.7	148.5	106.9	97.9	49.9	37.1	29.4	25.6
85°	79.4	97.3	93.5	82.6	61.5	55.1	30.7	23.7	19.2	14.7	12.2
87.5°	26.9	35.8	34.6	27.5	21.1	16.6	10.9	9.0	6.4	5.1	4.5
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: P1213756

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2149.7	2149.7	2148.4	2149.7	2150.3	2149.0	2149.0	2150.3	2151.0	2151.6	2154.8
5°	2152.9	2154.2	2156.1	2159.9	2160.6	2168.2	2171.4	2173.4	2175.3	2175.9	2171.4
7.5°	2159.9	2164.4	2168.2	2167.6	2163.1	2151.0	2147.1	2143.9	2149.7	2164.4	2181.7
10°	2166.3	2145.8	2107.4	2159.9	2143.9	2158.6	2202.2	2211.8	2241.2	2282.8	2295.0
12.5°	2122.1	2178.5	2190.6	2131.8	2240.6	2200.2	2248.3	2290.5	2302.7	2344.9	2319.3
15°	2169.5	2197.0	2215.6	2274.5	2268.1	2302.7	2316.1	2307.8	2309.7	2320.6	2349.4
17.5°	2168.9	2223.9	2236.1	2275.8	2302.7	2303.3	2299.5	2295.6	2305.9	2314.2	2296.9
20°	2206.0	2223.9	2247.6	2263.6	2268.7	2275.1	2287.3	2277.7	2258.5	2239.9	2232.3
22.5°	2187.4	2227.8	2248.3	2250.8	2247.6	2227.8	2209.9	2183.0	2174.0	2164.4	2167.6
25°	2191.3	2209.9	2207.3	2197.0	2183.6	2146.5	2137.5	2126.0	2108.7	2067.1	2029.3
27.5°	2163.8	2154.2	2142.6	2117.7	2093.3	2073.5	2051.1	2014.0	1983.2	1938.4	1921.8
30°	2117.7	2079.3	2051.1	2036.4	2012.7	1979.4	1945.5	1900.0	1861.0	1852.0	1843.7
32.5°	2029.3	1991.6	1968.5	1932.7	1892.3	1852.6	1813.6	1795.7	1787.3	1788.6	1780.9
35°	1939.1	1905.8	1871.2	1817.4	1787.3	1747.7	1733.6	1729.7	1722.0	1713.7	1704.8
37.5°	1843.0	1804.0	1752.1	1720.1	1690.0	1674.0	1667.0	1661.2	1647.8	1633.1	1622.8
40°	1750.2	1679.8	1651.0	1619.6	1610.7	1603.6	1593.4	1579.3	1560.7	1558.2	1553.7
42.5°	1626.0	1575.4	1550.5	1544.1	1533.2	1521.0	1512.1	1496.7	1489.0	1494.1	1498.0
45°	1508.2	1482.6	1474.3	1466.6	1446.1	1428.9	1423.1	1418.0	1424.4	1452.5	1385.3
47.5°	1412.8	1402.6	1392.4	1379.6	1360.4	1347.5	1353.3	1358.4	1364.2	1157.4	1056.3
50°	1330.3	1316.2	1300.2	1286.1	1274.6	1273.3	1303.4	1213.1	1015.9	1010.8	908.4
52.5°	1240.0	1218.9	1209.3	1201.0	1206.1	1225.3	1014.0	941.0	902.6	784.2	731.7
55°	1142.7	1124.1	1124.1	1131.8	1104.3	895.0	884.1	764.4	692.0	671.5	663.2
57.5°	1045.4	1043.5	1054.4	964.1	812.4	779.1	654.9	628.6	617.1	614.6	601.1
60°	956.4	974.3	815.6	750.3	652.3	588.3	570.4	567.2	555.0	550.5	538.4
62.5°	885.3	734.3	683.7	558.2	525.6	517.3	507.7	503.2	492.3	434.7	127.4
65°	639.5	604.3	490.4	469.2	466.7	454.5	450.7	405.2	95.4	64.0	54.4
67.5°	482.7	428.3	413.5	409.7	397.5	373.2	110.7	63.4	54.4	47.4	41.6
70°	370.7	361.1	350.2	341.2	100.5	62.7	54.4	46.1	39.7	35.2	32.0
72.5°	303.4	297.0	172.8	65.9	53.8	45.5	40.3	35.2	30.7	28.2	25.6
75°	237.5	65.9	54.4	45.5	39.1	33.3	29.4	26.2	23.7	21.8	19.8
77.5°	53.8	43.5	37.1	31.4	28.2	25.0	22.4	19.2	17.3	15.4	12.8
80°	33.3	28.8	24.3	22.4	19.2	16.0	14.1	12.8	10.2	9.6	8.3
82.5°	21.8	17.3	15.4	12.8	10.2	9.6	8.3	6.4	5.8	5.1	4.5
85°	9.6	8.3	7.0	5.8	4.5	3.8	3.2	2.6	2.6	2.6	2.6
87.5°	3.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3
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: P1213756

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2156.1	2167.6	2178.5	2175.3	2163.8	2145.8	2140.7	2133.7	2138.8	2149.7	2154.2
5°	2171.4	2165.0	2188.1	2222.0	2277.1	2282.2	2320.6	2329.6	2360.3	2379.5	2378.9
7.5°	2193.2	2284.1	2321.9	2362.9	2381.4	2376.9	2382.7	2378.2	2371.2	2368.0	2364.1
10°	2304.0	2373.1	2387.2	2387.2	2358.4	2319.3	2302.7	2273.9	2216.3	2217.5	2207.9
12.5°	2368.6	2392.9	2359.7	2331.5	2215.6	2170.8	2122.1	2099.1	2085.7	2065.2	2072.9
15°	2334.7	2300.1	2280.3	2189.4	2118.3	2037.6	2038.9	2024.8	2010.1	2011.4	2001.8
17.5°	2284.8	2257.2	2116.4	2053.7	2019.1	1987.7	1982.0	1963.4	1953.8	1950.6	1949.9
20°	2216.3	2117.0	2012.0	1996.7	1955.1	1919.2	1913.5	1919.2	1948.7	1896.2	1718.2
22.5°	2136.2	1993.5	1962.7	1919.2	1891.0	1877.0	1912.2	1752.1	1510.2	1539.6	1508.2
25°	2000.5	1938.4	1885.9	1852.6	1849.4	1763.0	1469.2	1438.5	1282.9	1199.7	1106.2
27.5°	1901.3	1874.4	1819.4	1813.6	1772.0	1441.7	1288.7	1119.6	1057.6	1048.0	1027.5
30°	1841.1	1802.7	1769.4	1624.1	1414.1	1160.6	1033.9	1010.2	999.3	987.8	969.9
32.5°	1768.8	1732.3	1748.3	1365.5	1127.3	999.3	973.7	956.4	936.6	928.9	864.2
35°	1695.2	1678.5	1366.1	1147.8	969.2	938.5	919.3	901.4	717.0	173.5	58.9
37.5°	1616.4	1612.6	1227.8	952.6	907.8	878.9	824.5	170.3	40.3	27.5	20.5
40°	1555.0	1228.5	970.5	893.0	856.5	811.1	113.9	28.2	17.9	10.9	7.0
42.5°	1514.0	1104.9	868.7	838.0	758.6	83.9	28.8	12.2	7.0	5.8	4.5
45°	1167.0	872.5	811.7	779.7	96.0	28.8	16.6	5.8	4.5	3.8	2.6
47.5°	1076.8	792.5	756.7	170.3	32.0	15.4	11.5	3.8	2.6	2.6	2.6
50°	815.6	732.3	602.4	41.6	20.5	10.9	8.3	2.6	2.6	2.6	1.9
52.5°	715.1	676.0	64.7	27.5	16.0	8.3	5.1	1.9	1.9	1.9	1.9
55°	653.6	428.9	38.4	21.1	13.4	7.7	3.2	1.9	1.9	1.9	1.3
57.5°	597.9	57.6	28.2	17.9	12.2	7.0	1.9	1.9	1.9	1.9	1.3
60°	507.0	41.6	23.0	16.0	11.5	6.4	1.9	1.9	1.9	1.9	1.9
62.5°	65.9	32.6	19.8	14.1	8.3	5.1	1.3	1.9	1.9	1.9	1.9
65°	48.0	25.6	17.9	9.6	5.1	1.9	1.3	1.9	1.9	1.9	1.9
67.5°	37.1	21.1	13.4	8.3	4.5	1.3	1.3	1.9	1.9	1.9	1.9
70°	29.4	17.9	10.9	7.0	3.8	1.3	1.3	1.9	1.9	1.9	1.9
72.5°	23.0	12.8	7.7	3.8	2.6	1.3	1.3	1.9	1.9	1.9	1.9
75°	17.3	10.2	5.8	3.2	1.3	1.3	1.3	1.9	1.9	1.9	1.9
77.5°	11.5	6.4	4.5	2.6	2.6	2.6	3.2	3.2	1.9	1.9	1.9
80°	7.7	4.5	3.2	3.2	3.2	2.6	3.2	3.2	1.9	3.2	1.9
82.5°	3.8	3.2	3.2	2.6	2.6	1.9	2.6	2.6	2.6	2.6	1.9
85°	2.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	1.9
87.5°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	2.6	2.6	1.9
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: P1213756

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2148.4	2150.3	2145.2	2172.7	2158.6	2159.9	2165.7	2151.0	2154.2	2143.9	2136.9
5°	2381.4	2385.3	2389.1	2390.4	2392.9	2396.1	2392.3	2390.4	2386.5	2373.7	2360.3
7.5°	2344.9	2340.4	2338.5	2341.1	2345.6	2347.5	2344.3	2348.8	2365.4	2372.5	2376.9
10°	2152.9	2132.4	2146.5	2144.6	2128.6	2182.3	2167.6	2175.9	2181.7	2240.6	2276.4
12.5°	2061.3	2074.1	2049.8	2037.6	2053.7	2064.5	2075.4	2052.4	2084.4	2069.7	2117.0
15°	1984.5	1976.8	1974.3	1974.9	1971.7	1987.1	1990.9	1996.0	2000.5	2020.4	2028.0
17.5°	1949.9	1962.7	1967.9	1971.7	1965.3	1958.3	1951.2	1941.0	1944.2	1939.1	1953.8
20°	1598.5	1555.6	1553.0	1578.0	1550.5	1565.8	1603.0	1851.4	1843.0	1939.7	1907.1
22.5°	1334.1	1293.8	1259.2	1229.1	1272.0	1289.9	1359.1	1437.2	1563.9	1544.1	1681.7
25°	1089.6	1074.8	1065.9	1061.4	1064.6	1063.3	1078.7	1115.2	1172.8	1308.5	1483.9
27.5°	1019.1	1012.1	1008.9	998.7	1006.3	1003.8	1015.9	1023.6	1040.9	1054.4	1111.3
30°	963.4	955.1	949.4	938.5	946.2	946.8	950.6	970.5	977.5	989.1	1007.0
32.5°	352.1	207.4	194.6	185.0	202.3	263.7	462.8	809.2	923.1	932.1	952.6
35°	34.6	28.8	25.6	25.6	26.2	28.8	38.4	101.1	185.0	715.1	895.0
37.5°	13.4	11.5	9.6	9.0	9.6	10.9	14.7	19.2	26.2	54.4	242.6
40°	5.8	5.1	4.5	4.5	4.5	4.5	5.1	6.4	9.6	17.9	28.2
42.5°	3.8	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.5	5.8	11.5
45°	2.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.2	5.1
47.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6
50°	1.9	1.9	1.9	1.9	1.3	1.9	1.3	1.9	1.9	1.9	1.9
52.5°	1.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9
55°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9
57.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	1.3
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.3
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.9	1.9	1.3	1.9	1.3	1.3	1.9	1.9	1.9	1.3	1.3
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	2.6
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.2	3.8	3.2
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.2	3.2	3.2
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P1213756

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2124.7	2124.1	2137.5	2147.8	2143.9	2147.8	2152.2	2152.9	2154.2	2149.0	2147.1
5°	2334.7	2314.8	2276.4	2248.9	2216.9	2158.6	2129.8	2133.0	2133.7	2131.8	2134.3
7.5°	2375.0	2373.1	2359.7	2353.9	2332.1	2290.5	2223.9	2212.4	2184.2	2166.3	2151.6
10°	2273.9	2320.0	2332.1	2352.6	2365.4	2357.7	2301.4	2293.1	2275.1	2254.7	2259.1
12.5°	2164.4	2202.2	2204.1	2315.5	2340.4	2343.0	2321.2	2332.8	2335.3	2289.2	2262.3
15°	2030.0	2047.9	2085.7	2189.4	2264.9	2312.3	2326.4	2332.8	2301.4	2299.5	2288.6
17.5°	1971.1	1982.6	1999.9	2058.1	2172.7	2242.5	2302.0	2297.6	2309.7	2300.8	2273.2
20°	1896.8	1906.4	1937.1	1966.6	2022.9	2115.7	2227.1	2235.5	2251.5	2249.5	2257.2
22.5°	1895.5	1861.6	1866.7	1889.8	1948.7	2031.9	2150.3	2177.8	2188.1	2195.1	2203.5
25°	1503.7	1773.3	1822.6	1837.3	1875.7	1924.3	2063.9	2074.1	2093.3	2124.7	2147.8
27.5°	1302.7	1485.8	1683.0	1785.4	1809.7	1850.1	1933.3	1948.7	2014.0	2021.6	2057.5
30°	1028.1	1169.6	1464.1	1710.5	1750.9	1779.0	1837.9	1868.6	1896.8	1927.5	1965.3
32.5°	967.3	989.7	1152.9	1415.4	1729.1	1708.0	1751.5	1770.1	1800.8	1827.7	1855.2
35°	911.6	927.0	961.5	1159.3	1408.4	1649.7	1679.2	1691.3	1708.6	1729.1	1748.9
37.5°	853.3	876.4	900.1	953.2	1302.7	1603.6	1603.0	1617.1	1627.3	1644.6	1661.2
40°	154.9	804.7	843.1	877.7	1010.2	1279.1	1531.3	1537.7	1544.7	1555.6	1572.9
42.5°	25.0	134.4	790.0	823.3	861.0	1145.3	1498.6	1472.4	1467.9	1475.6	1490.9
45°	12.8	32.6	158.8	768.8	802.8	913.5	1225.3	1426.9	1422.4	1407.7	1410.9
47.5°	9.6	20.5	39.1	265.7	751.6	784.2	1130.5	1118.4	1203.5	1366.8	1341.8
50°	8.3	14.1	23.0	54.4	663.9	722.1	870.6	1017.2	1062.0	1067.8	1263.7
52.5°	7.7	9.6	16.6	35.2	139.6	667.7	708.0	759.2	834.8	996.7	992.9
55°	7.0	9.0	14.1	23.7	48.7	601.8	643.4	653.0	669.0	746.4	848.9
57.5°	3.8	8.3	13.4	20.5	36.5	110.1	583.8	591.5	604.3	607.5	644.0
60°	1.9	7.7	12.2	17.9	26.9	51.2	524.9	533.9	541.6	542.9	554.4
62.5°	1.3	7.0	10.2	16.6	22.4	36.5	124.2	253.5	482.0	482.0	495.5
65°	1.3	5.1	6.4	10.9	20.5	30.1	52.5	60.8	118.4	291.3	434.7
67.5°	1.3	1.9	5.8	9.0	15.4	23.0	38.4	44.8	53.8	61.5	113.9
70°	1.3	1.3	5.1	5.8	9.6	17.3	27.5	31.4	36.5	41.6	48.0
72.5°	1.3	1.3	4.5	4.5	6.4	11.5	21.1	23.0	26.2	29.4	33.9
75°	3.2	2.6	3.8	3.8	4.5	9.0	16.0	17.9	19.2	21.8	25.0
77.5°	3.2	3.2	3.2	3.2	3.2	5.8	10.2	11.5	13.4	14.7	17.3
80°	2.6	2.6	2.6	3.2	3.2	3.8	6.4	7.0	7.7	9.6	10.2
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.8	4.5	5.8
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6	2.6
87.5°	1.9	1.9	1.9	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9
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: P1213756

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2146.5	2142.6	2139.4	2141.4	2135.6	2133.0	2135.0	2135.6	2136.9	2140.1	2140.7
5°	2140.7	2139.4	2145.2	2148.4	2147.1	2148.4	2148.4	2145.8	2142.0	2144.6	2138.8
7.5°	2136.9	2128.6	2122.1	2123.4	2117.0	2124.7	2131.8	2142.0	2145.2	2145.2	2138.8
10°	2202.8	2193.8	2158.0	2133.7	2117.7	2103.6	2136.9	2102.9	2118.9	2058.1	2127.9
12.5°	2257.2	2269.4	2253.4	2186.8	2175.3	2133.0	2157.4	2115.7	2103.6	2033.8	2056.2
15°	2279.0	2255.9	2250.8	2232.3	2207.3	2195.1	2129.8	2122.8	2102.9	2110.6	2081.2
17.5°	2259.8	2271.3	2255.9	2243.8	2218.2	2189.4	2150.3	2115.7	2088.2	2026.8	2078.6
20°	2241.2	2256.6	2210.5	2218.2	2220.7	2187.4	2167.0	2138.2	2103.6	2046.0	2001.2
22.5°	2210.5	2199.6	2203.5	2191.9	2182.3	2186.8	2158.6	2138.8	2080.5	2054.3	1993.5
25°	2160.6	2156.7	2167.0	2165.7	2142.6	2135.0	2120.9	2099.7	2076.7	2034.4	1984.5
27.5°	2079.3	2099.1	2117.0	2125.4	2113.2	2092.7	2085.0	2072.9	2056.9	2014.0	1976.8
30°	1993.5	2015.9	2036.4	2054.3	2065.2	2056.2	2049.2	2042.1	2017.8	1989.6	1948.0
32.5°	1895.5	1925.0	1953.1	1974.9	1998.6	2005.6	2000.5	1994.8	1974.3	1948.7	1915.4
35°	1782.2	1822.6	1863.5	1902.6	1912.8	1929.5	1946.1	1936.5	1925.6	1900.0	1869.3
37.5°	1686.2	1715.0	1744.5	1793.7	1829.6	1850.7	1880.2	1884.0	1865.4	1853.3	1812.9
40°	1587.0	1613.2	1656.1	1684.9	1734.2	1758.5	1789.9	1804.0	1799.5	1792.5	1757.3
42.5°	1508.9	1521.7	1549.8	1575.4	1624.1	1674.0	1701.6	1716.9	1732.9	1727.2	1709.2
45°	1425.6	1437.2	1446.8	1469.2	1516.6	1560.7	1594.7	1617.7	1646.5	1659.9	1638.2
47.5°	1343.1	1346.3	1357.8	1376.4	1404.5	1438.5	1495.4	1530.0	1556.9	1583.1	1569.0
50°	1279.7	1268.2	1270.1	1281.6	1304.7	1337.9	1378.9	1427.6	1458.3	1490.3	1493.5
52.5°	1118.4	1211.8	1189.4	1195.8	1208.0	1224.0	1266.9	1314.9	1352.7	1380.2	1407.7
55°	938.5	957.0	1136.9	1111.3	1119.0	1133.1	1152.9	1201.0	1237.4	1275.9	1314.3
57.5°	727.9	866.1	873.2	1039.6	1035.8	1037.1	1053.7	1081.2	1117.7	1165.7	1198.4
60°	565.9	624.2	737.5	795.1	941.0	946.2	955.8	971.8	1003.1	1048.6	1100.4
62.5°	499.3	507.0	547.3	633.8	728.5	843.1	863.6	866.1	880.2	925.7	985.9
65°	438.5	443.6	455.8	464.8	544.1	654.9	753.5	769.5	778.4	805.3	856.5
67.5°	302.2	382.2	393.1	399.5	407.1	458.4	580.6	661.9	672.2	695.9	740.7
70°	58.3	121.0	331.0	338.0	341.8	353.4	373.2	502.5	570.4	592.8	613.3
72.5°	39.7	46.7	56.3	133.2	281.7	288.1	292.6	309.2	423.8	489.1	500.0
75°	28.8	32.0	37.8	46.7	57.6	187.6	232.4	240.7	249.0	343.8	398.8
77.5°	20.5	23.0	25.6	30.1	35.2	45.5	65.3	179.9	188.2	192.7	272.1
80°	11.5	14.1	17.3	19.8	22.4	25.6	33.3	41.6	92.8	135.7	142.8
82.5°	6.4	7.7	9.0	10.9	12.2	15.4	18.6	22.4	29.4	43.5	92.2
85°	3.2	3.2	3.2	4.5	5.1	7.0	8.3	9.6	13.4	18.6	25.6
87.5°	1.9	1.9	2.6	2.6	2.6	3.2	3.2	3.2	3.8	5.8	8.3
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: P1213756

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	2133.0	2133.0	2133.0	2133.0	2133.0
2.5°	2141.4	2139.4	2139.4	2147.1	2145.2
5°	2137.5	2135.6	2135.0	2143.3	2139.4
7.5°	2134.3	2127.3	2125.4	2133.0	2129.8
10°	2121.5	2116.4	2119.6	2117.0	2115.7
12.5°	2099.7	2096.5	2083.1	2084.4	2095.3
15°	2060.7	2073.5	2050.5	2070.9	2075.4
17.5°	1989.0	2017.8	2040.2	2052.4	2054.3
20°	2021.0	2030.6	2019.1	2019.7	2027.4
22.5°	1979.4	1983.9	1987.1	1983.2	1999.9
25°	1912.8	1895.5	1932.7	1940.3	1967.2
27.5°	1892.3	1878.2	1895.5	1894.3	1916.7
30°	1875.7	1830.2	1837.9	1850.1	1877.6
32.5°	1852.0	1780.3	1772.6	1799.5	1830.2
35°	1810.4	1742.5	1724.6	1741.9	1788.0
37.5°	1775.2	1690.0	1654.2	1677.2	1737.4
40°	1722.7	1649.1	1593.4	1613.9	1684.9
42.5°	1659.9	1613.9	1528.1	1542.2	1623.5
45°	1596.6	1555.6	1464.7	1471.7	1568.4
47.5°	1531.9	1494.1	1398.8	1400.0	1498.0
50°	1468.5	1418.6	1339.9	1317.5	1423.1
52.5°	1386.0	1339.9	1280.3	1243.8	1352.0
55°	1307.9	1256.0	1212.5	1156.1	1271.4
57.5°	1231.7	1174.1	1144.6	1072.3	1179.8
60°	1127.3	1099.8	1056.3	987.1	1097.2
62.5°	1020.4	1011.5	967.3	895.6	995.5
65°	895.6	916.7	871.3	809.8	889.8
67.5°	777.8	815.6	765.6	727.9	788.0
70°	652.3	695.9	667.7	654.2	679.9
72.5°	528.8	571.0	573.6	564.0	572.3
75°	408.4	455.2	480.8	466.0	468.0
77.5°	309.8	332.2	360.4	371.9	369.4
80°	191.4	230.5	253.5	277.2	268.9
82.5°	96.7	129.3	157.5	183.1	170.9
85°	40.3	51.9	72.3	95.4	91.5
87.5°	12.2	20.5	21.8	30.7	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)