

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-L930-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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

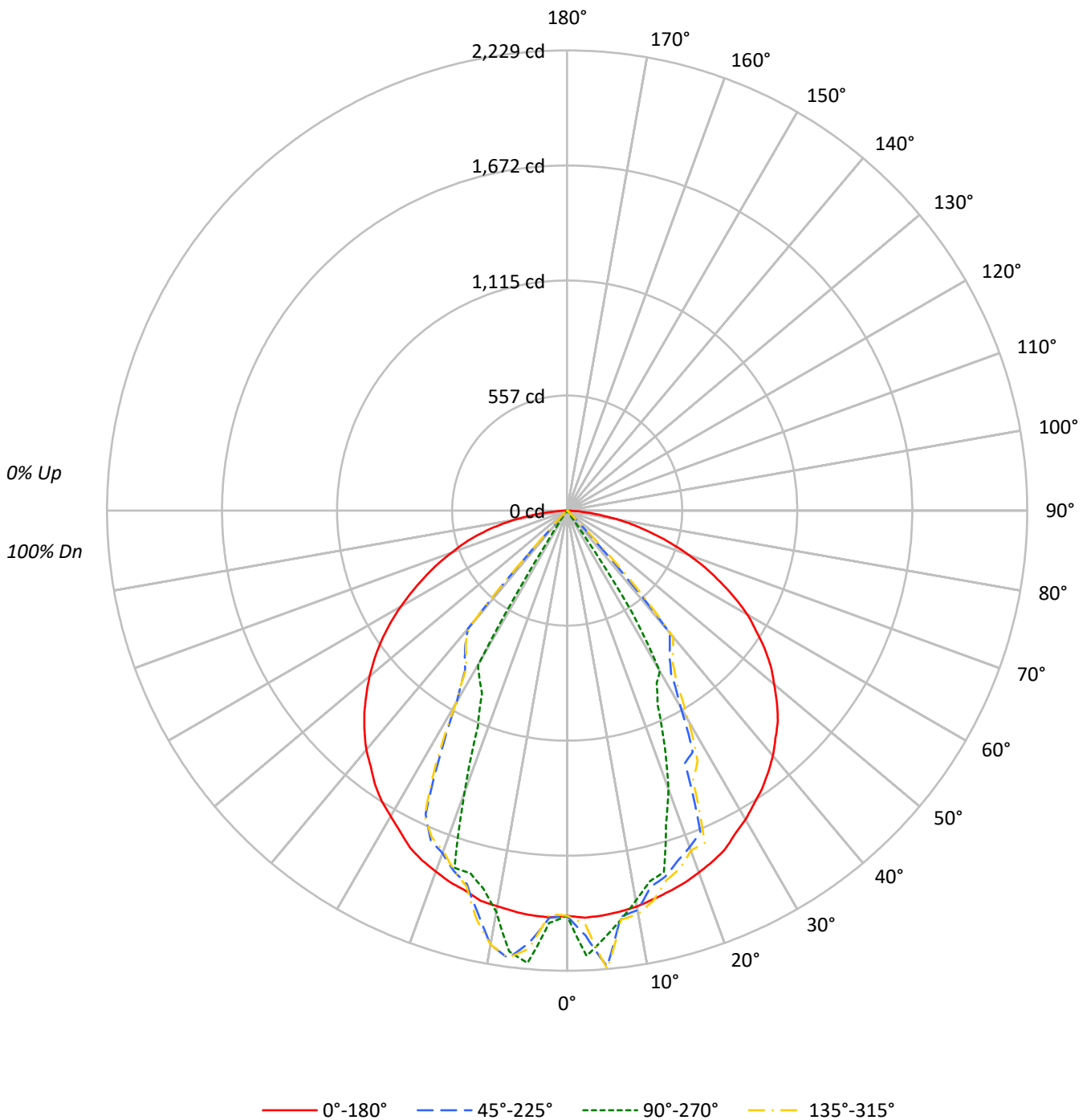
Lumens per Lamp: N/A
Luminaire Lumens: 2791.1 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L930-CD1-U

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	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°	15861	15861	15861	15861
5°	15926	16313	15921	17276
10°	15888	14762	15879	15188
15°	15845	13779	15806	13814
20°	15863	10853	15818	10987
25°	15910	7854	15831	7411
30°	15837	6890	15669	6623
35°	15883	152	15651	184
40°	15938	33	15557	33
45°	15995	20	15394	15
50°	15872	16	15144	16
55°	15778	11	14810	11
60°	15481	12	14271	12
65°	14673	19	13628	13
70°	13612	21	12960	21
75°	12040	23	12239	23
80°	9780	27	10341	27
85°	5752	32	5875	32



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	7.1
10°-20°	537.1	19.2
20°-30°	683.5	24.5
30°-40°	577.4	20.7
40°-50°	377.5	13.5
50°-60°	237.9	8.5
60°-70°	126.6	4.5
70°-80°	46.2	1.7
80°-90°	8.0	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°	1417.6	50.8
0°-40°	1995.0	71.5
0°-60°	2610.3	93.5
0°-90°	2791.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2791.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1963	1963	1963	1963	1963	
5°	1969	2077	1968	2200	1969	187
15°	1910	1813	1905	1817	1910	540
25°	1810	1035	1801	977	1810	832
35°	1645	19	1621	24	1645	1029
45°	1443	2	1389	2	1443	1110
55°	1170	1	1098	1	1170	1042
65°	819	2	760	1	819	811
75°	431	2	438	2	431	457
85°	84	2	86	2	84	107
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1974.0	1975.2	1975.8	1977.0	1978.7	1979.3	1980.5	1979.3	1979.3	1979.3	1979.3
5°	1968.7	1971.1	1972.9	1975.2	1979.3	1979.9	1984.6	1985.2	1987.6	1992.3	1995.8
7.5°	1959.9	1962.3	1965.8	1971.7	1977.6	1984.0	1992.3	2001.1	2013.5	2025.3	2040.0
10°	1946.9	1949.9	1954.0	1959.3	1988.2	1992.3	2010.6	2035.9	2043.0	2080.1	2107.8
12.5°	1928.1	1938.1	1948.7	1953.4	1981.1	2024.7	2086.0	2073.6	2060.0	2181.4	2179.6
15°	1909.8	1923.4	1918.1	1956.4	1981.7	2057.7	2031.8	2087.1	2188.5	2163.7	2164.9
17.5°	1890.4	1893.3	1922.8	1954.6	2000.0	2038.8	2070.6	2146.6	2166.7	2168.4	2146.6
20°	1865.6	1879.8	1922.8	1951.6	2028.2	2046.5	2115.4	2154.3	2146.0	2126.0	2088.9
22.5°	1840.3	1883.3	1926.9	1967.6	2021.2	2070.1	2104.2	2122.5	2079.5	2000.5	1958.1
25°	1810.3	1835.6	1892.7	1952.2	2019.4	2047.7	2067.7	2038.2	1982.3	1911.6	1840.3
27.5°	1763.7	1804.4	1877.4	1944.6	2005.3	2039.4	2007.0	1936.3	1846.2	1799.7	1767.3
30°	1727.8	1780.8	1840.9	1905.7	1968.7	1988.8	1906.3	1825.6	1763.7	1717.2	1710.1
32.5°	1684.2	1759.6	1816.7	1878.6	1931.6	1905.1	1825.0	1720.7	1669.5	1651.8	1658.9
35°	1645.3	1702.5	1777.3	1838.0	1876.2	1816.7	1690.1	1625.3	1600.6	1610.6	1597.6
37.5°	1598.8	1674.2	1743.1	1795.5	1782.6	1693.0	1585.8	1544.6	1547.5	1539.3	1514.5
40°	1550.5	1622.3	1694.2	1743.7	1698.3	1561.7	1490.4	1481.6	1483.3	1456.8	1421.5
42.5°	1493.9	1559.3	1631.2	1676.0	1578.2	1471.5	1423.2	1424.4	1409.1	1372.0	1353.1
45°	1443.3	1503.4	1578.2	1582.3	1462.1	1373.2	1359.0	1343.7	1309.5	1297.2	1283.0
47.5°	1378.5	1445.0	1506.9	1484.5	1348.4	1293.0	1282.4	1248.9	1231.8	1222.4	1210.6
50°	1309.5	1376.7	1433.3	1369.6	1241.2	1228.2	1193.5	1167.0	1155.2	1145.2	1134.6
52.5°	1244.2	1299.5	1357.3	1247.7	1158.7	1146.4	1106.9	1091.6	1079.8	1068.6	1066.2
55°	1169.9	1218.8	1258.3	1131.6	1079.8	1050.9	1022.7	1012.1	1000.9	995.6	1004.4
57.5°	1085.7	1141.1	1135.2	1017.4	994.4	952.6	942.0	934.9	926.6	930.2	856.5
60°	1009.7	1052.1	1023.2	933.7	894.8	866.5	857.1	852.4	857.1	785.3	690.4
62.5°	916.0	963.7	905.4	835.9	794.7	781.1	772.9	779.4	710.4	631.5	608.5
65°	818.8	870.7	784.7	731.1	705.1	693.4	692.8	638.0	570.2	539.6	539.6
67.5°	725.2	778.8	668.0	623.3	613.2	614.4	580.3	497.2	478.3	457.7	398.2
70°	625.6	672.7	552.0	524.9	519.0	514.9	431.8	409.4	387.0	332.2	327.5
72.5°	526.6	549.6	443.6	437.1	435.9	362.3	345.8	307.5	281.6	275.1	272.2
75°	430.6	423.6	350.5	356.4	300.4	274.5	248.0	225.6	222.1	219.7	54.8
77.5°	339.9	304.6	276.3	240.3	215.0	182.6	177.3	173.8	114.3	41.2	33.6
80°	247.4	197.3	183.8	156.1	133.1	127.8	130.8	40.1	31.8	26.5	23.0
82.5°	157.3	126.1	103.1	90.1	87.8	38.3	28.3	23.0	20.0	17.1	14.1
85°	84.2	56.0	51.8	43.6	25.9	17.7	14.7	11.2	9.4	7.7	7.1
87.5°	26.5	22.4	18.3	14.7	8.8	5.9	4.7	4.1	3.5	2.9	2.9
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1978.2	1979.3	1978.7	1980.5	1980.5	1982.9	1984.6	1986.4	1989.9	1991.7	2005.3
5°	2003.5	2006.4	2015.3	2023.5	2033.5	2036.5	2053.6	2057.7	2077.7	2080.1	2146.0
7.5°	2060.0	2071.2	2092.4	2113.6	2134.9	2148.4	2172.0	2186.7	2202.6	2216.7	2269.2
10°	2128.4	2147.2	2167.8	2189.0	2201.4	2227.3	2241.5	2243.8	2239.7	2216.7	2131.9
12.5°	2195.5	2214.4	2205.5	2209.7	2224.4	2178.4	2184.9	2151.9	2174.9	2061.2	1977.0
15°	2186.1	2184.9	2163.1	2092.4	2104.2	2016.4	1981.1	1954.0	1975.8	1964.0	1951.1
17.5°	2157.8	2104.2	2066.5	1981.7	1945.8	1921.0	1921.6	1922.2	1911.6	1922.8	1889.8
20°	2038.2	1978.2	1922.2	1892.1	1881.5	1863.9	1872.7	1863.9	1864.5	1868.0	1817.3
22.5°	1879.2	1860.9	1828.5	1838.0	1834.4	1850.3	1838.5	1820.3	1826.2	1799.7	1761.4
25°	1815.0	1793.8	1792.6	1796.1	1790.8	1783.8	1773.2	1745.5	1743.7	1735.5	1717.8
27.5°	1750.2	1751.4	1754.9	1744.3	1725.4	1711.3	1695.4	1681.8	1687.1	1677.7	1653.6
30°	1705.4	1704.8	1683.6	1674.2	1639.4	1640.0	1635.9	1627.6	1622.3	1622.9	1607.6
32.5°	1641.8	1623.5	1599.4	1587.6	1584.6	1574.0	1565.8	1567.6	1571.7	1557.0	1572.9
35°	1576.4	1538.7	1535.2	1525.1	1515.7	1508.7	1511.6	1499.8	1499.2	1497.5	1367.9
37.5°	1488.6	1470.4	1468.6	1458.0	1451.5	1449.7	1438.6	1440.3	1445.6	1455.0	1166.4
40°	1416.2	1399.7	1395.5	1395.0	1380.8	1379.6	1382.6	1393.8	1401.4	1342.5	1111.6
42.5°	1338.4	1339.6	1326.6	1318.4	1320.1	1325.4	1339.6	1300.7	1126.9	1073.9	1016.2
45°	1271.8	1265.9	1258.9	1256.5	1271.8	1261.2	1105.7	1020.3	999.7	997.3	835.3
47.5°	1202.3	1200.6	1197.6	1199.4	1112.2	991.4	956.1	944.9	948.4	946.1	717.5
50°	1132.2	1134.6	1134.6	990.8	909.6	889.5	892.5	902.5	840.0	784.1	668.6
52.5°	1071.6	1053.3	902.5	850.6	832.4	841.2	820.0	741.7	685.1	652.1	618.5
55°	959.0	824.7	791.1	782.9	789.4	711.0	662.7	612.1	597.3	593.8	574.4
57.5°	754.6	727.5	730.5	697.5	622.7	578.5	559.0	552.0	545.5	540.8	47.1
60°	667.4	675.1	618.0	547.3	517.2	511.3	506.6	500.1	499.0	490.7	30.0
62.5°	610.9	537.2	487.8	470.1	463.0	461.3	452.4	449.5	381.7	52.4	22.4
65°	460.7	430.6	421.2	417.1	409.4	409.4	339.9	53.6	43.6	37.7	20.0
67.5°	375.8	373.5	368.8	363.5	247.4	51.8	45.4	39.5	34.2	30.0	17.7
70°	318.1	316.9	288.7	53.0	44.2	38.9	34.2	30.6	28.3	25.3	15.9
72.5°	261.0	53.0	44.8	38.9	33.6	30.6	27.7	24.7	22.4	20.6	13.0
75°	40.6	35.9	31.8	28.9	26.5	23.6	21.2	19.4	18.9	16.5	8.8
77.5°	29.5	25.3	23.0	20.6	18.3	16.5	14.1	12.4	11.2	9.4	6.5
80°	20.6	18.3	16.5	13.5	11.8	10.0	8.8	7.7	7.1	5.9	2.9
82.5°	11.8	10.0	8.8	7.1	6.5	5.3	4.7	4.1	4.1	2.9	2.9
85°	5.3	5.3	4.1	3.5	2.9	2.9	2.9	2.4	2.4	1.8	1.8
87.5°	2.4	2.4	2.4	2.4	2.4	1.8	1.8	1.8	1.8	1.8	1.2
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	2024.1	2031.8	2046.5	2061.8	2044.7	2106.0	2101.3	2121.9	2133.1	2138.4	2150.8
5°	2204.4	2238.5	2249.7	2216.1	2196.7	2176.7	2131.3	2097.2	2101.3	2090.1	2049.4
7.5°	2200.8	2127.8	2029.4	1984.6	1981.1	1975.8	1989.9	1998.2	1999.4	1998.8	1997.6
10°	2014.7	1977.0	1970.5	1964.6	1967.0	1945.2	1935.2	1906.9	1922.2	1913.9	1916.9
12.5°	1958.1	1949.3	1914.5	1866.2	1895.1	1873.3	1860.9	1869.2	1859.7	1850.9	1848.0
15°	1924.5	1867.4	1848.0	1836.2	1827.9	1823.2	1827.3	1817.9	1815.0	1813.2	1817.3
17.5°	1855.0	1832.1	1810.9	1779.6	1780.2	1778.5	1790.2	1807.9	1809.1	1718.4	1636.5
20°	1800.3	1781.4	1754.3	1734.9	1761.4	1714.2	1532.2	1445.6	1432.1	1432.1	1434.4
22.5°	1756.7	1714.8	1716.6	1686.0	1438.0	1387.3	1388.5	1393.8	1369.6	1287.2	1278.3
25°	1697.2	1690.7	1561.7	1349.6	1351.4	1311.9	1251.2	1165.8	1073.3	1073.3	1058.0
27.5°	1652.4	1515.1	1326.6	1317.8	1185.2	1101.6	1049.8	971.4	960.8	950.8	952.0
30°	1614.1	1281.9	1286.6	1101.6	1003.8	934.3	930.2	917.2	910.7	909.0	902.5
32.5°	1276.0	1248.3	1076.9	937.8	899.5	888.3	883.0	868.3	867.7	856.5	778.8
35°	1196.4	1095.7	901.3	863.6	852.4	841.8	833.0	559.0	66.0	26.5	23.0
37.5°	1105.7	915.4	833.6	816.5	805.9	595.6	59.5	20.6	14.7	10.6	9.4
40°	937.2	817.7	791.7	772.9	318.7	20.6	13.0	10.0	5.9	5.3	4.7
42.5°	790.6	770.5	742.8	226.2	23.6	10.0	6.5	4.7	4.1	4.1	3.5
45°	739.9	722.2	299.3	22.4	14.7	4.7	4.1	4.1	3.5	2.4	2.4
47.5°	692.8	609.7	27.1	14.1	9.4	4.1	3.5	2.4	2.4	2.4	1.8
50°	642.7	33.6	18.9	10.6	5.9	2.4	2.4	2.4	2.4	1.8	1.8
52.5°	120.2	23.6	15.3	9.4	2.9	2.4	2.4	2.4	1.8	1.8	1.8
55°	28.3	18.9	14.1	8.2	2.4	2.4	2.4	1.8	1.8	1.8	1.2
57.5°	21.2	14.1	11.2	7.7	2.4	1.8	1.8	1.8	1.8	1.8	1.2
60°	17.7	10.0	8.8	7.1	1.8	1.8	1.8	1.8	1.8	1.8	1.2
62.5°	12.4	8.2	6.5	5.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	10.0	6.5	5.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67.5°	8.8	5.3	3.5	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	7.1	1.8	1.8	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	5.9	1.8	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	5.9	2.9	1.2	1.2	1.8	1.8	2.4	2.4	1.8	1.8	1.8
77.5°	4.1	2.9	1.2	1.2	1.8	1.8	2.4	2.4	1.8	1.8	1.8
80°	2.4	2.9	1.2	1.8	1.8	3.5	4.1	2.4	1.8	1.8	1.8
82.5°	2.4	2.9	3.5	3.5	1.8	2.9	3.5	2.9	2.4	1.8	1.8
85°	2.4	1.8	2.4	2.9	1.8	2.9	2.9	2.4	2.4	1.8	1.8
87.5°	1.2	1.8	1.8	2.4	2.4	2.4	2.9	2.4	2.4	2.4	1.8
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	2156.6	2159.0	2121.9	2108.9	2120.1	2117.8	2107.8	2070.6	2066.5	2041.8	2005.8
5°	2061.2	2077.1	2057.7	2091.3	2075.4	2091.3	2139.6	2162.0	2198.5	2220.9	2229.1
7.5°	1994.7	1998.2	1998.2	2001.1	2004.1	2004.7	2001.1	1998.8	1988.8	1976.4	1998.8
10°	1913.9	1918.1	1925.1	1924.0	1923.4	1935.7	1938.7	1964.0	1962.8	1967.6	1984.6
12.5°	1872.1	1840.3	1869.2	1861.5	1872.1	1855.6	1886.3	1881.0	1882.7	1896.9	1933.4
15°	1802.6	1812.6	1819.7	1819.7	1823.8	1820.3	1816.7	1840.9	1855.6	1856.2	1853.9
17.5°	1668.9	1592.9	1670.7	1650.6	1810.3	1814.4	1800.8	1789.6	1789.6	1798.5	1817.3
20°	1432.7	1434.4	1435.0	1442.7	1452.1	1451.5	1452.1	1684.2	1794.4	1769.0	1751.9
22.5°	1255.9	1234.1	1274.8	1271.8	1322.5	1378.5	1432.1	1426.8	1430.3	1594.1	1741.3
25°	1006.8	1035.0	1012.1	1022.1	1079.2	1145.8	1187.0	1294.8	1412.0	1403.8	1442.1
27.5°	947.8	940.2	950.8	950.8	958.4	967.3	990.3	1050.9	1155.2	1264.8	1368.5
30°	891.9	898.4	899.5	910.1	916.0	921.9	925.5	948.4	972.0	1048.0	1175.8
32.5°	669.8	587.3	772.9	823.0	865.4	875.4	882.5	891.9	909.0	920.2	984.4
35°	19.4	19.4	20.6	23.6	30.0	202.6	771.7	850.6	861.8	876.0	887.8
37.5°	9.4	7.1	8.2	8.8	10.6	14.7	21.2	66.0	734.6	830.6	843.6
40°	4.1	4.1	4.1	4.1	4.7	5.9	8.8	14.7	22.4	590.9	797.0
42.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.1	5.3	10.6	25.3	418.3
45°	2.4	2.4	1.8	2.4	2.4	2.9	3.5	3.5	4.7	15.9	28.9
47.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.9	3.5	10.6	15.3
50°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	8.2	10.6
52.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	9.4
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	2.4	8.2
57.5°	1.2	1.2	1.2	1.2	1.2	1.8	1.2	1.2	1.8	1.8	7.7
60°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	7.1
62.5°	1.8	1.8	1.2	1.8	1.2	1.2	1.8	1.8	1.8	1.8	4.7
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.8
67.5°	1.8	1.8	1.8	1.8	1.2	1.8	1.2	1.8	1.8	1.2	1.2
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2
75°	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	1.2	1.2	1.2
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.9	3.5	2.9	2.9	1.2
80°	1.8	1.8	1.8	1.8	1.8	1.8	2.9	2.9	2.9	2.9	4.1
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.9
85°	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	1.8	2.4
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	1.8	1.8	1.8
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	2008.8	1988.8	1982.3	1968.7	1967.6	1968.7	1965.8	1961.7	1964.0	1959.9	1956.4
5°	2233.8	2180.2	2145.5	2098.9	2034.7	2020.6	2017.0	1997.0	1989.9	1987.6	1978.2
7.5°	2051.8	2149.6	2208.5	2228.5	2153.1	2135.4	2114.8	2098.3	2082.4	2052.4	2034.1
10°	1971.1	1975.8	2032.4	2098.3	2205.5	2220.3	2231.5	2195.5	2185.5	2108.9	2092.4
12.5°	1952.2	1952.8	1959.3	1999.4	2083.6	2093.0	2132.5	2153.7	2179.6	2194.4	2182.6
15°	1866.2	1913.9	1949.3	1952.8	1960.5	1977.0	1988.8	2062.4	2093.6	2177.3	2172.6
17.5°	1826.2	1841.5	1892.7	1934.6	1927.5	1921.6	1931.0	1941.0	1971.1	2054.7	2053.6
20°	1759.6	1808.5	1836.2	1879.8	1919.2	1921.0	1910.4	1904.5	1892.7	1906.3	1918.7
22.5°	1731.3	1739.0	1790.8	1821.5	1866.2	1882.1	1884.5	1885.1	1878.6	1871.5	1868.0
25°	1728.4	1704.2	1730.7	1769.0	1802.0	1819.1	1838.5	1845.0	1842.7	1842.7	1839.1
27.5°	1414.4	1696.6	1682.4	1707.8	1747.8	1759.6	1769.6	1789.6	1802.0	1810.9	1815.0
30°	1347.2	1397.9	1644.7	1648.3	1688.9	1687.7	1698.9	1715.4	1731.3	1751.9	1757.2
32.5°	1191.7	1316.0	1505.7	1588.8	1631.2	1635.3	1641.2	1645.9	1660.6	1683.6	1703.6
35°	954.9	1198.8	1290.1	1560.5	1568.2	1576.4	1579.9	1591.1	1595.8	1605.3	1622.9
37.5°	864.2	990.8	1237.7	1349.6	1495.7	1502.8	1521.6	1526.3	1534.0	1541.6	1555.2
40°	811.8	846.5	1030.3	1205.3	1437.4	1442.1	1448.6	1460.3	1460.9	1469.8	1482.1
42.5°	769.9	792.3	845.9	1151.1	1396.1	1395.5	1380.2	1387.9	1391.4	1400.9	1417.9
45°	615.0	743.4	777.6	940.2	1111.6	1191.7	1345.5	1320.1	1319.6	1323.1	1341.4
47.5°	31.2	699.2	723.4	775.8	1049.8	1052.7	1072.7	1241.2	1267.1	1258.9	1260.6
50°	21.2	48.3	673.9	698.1	904.8	977.9	992.6	1000.3	1097.5	1205.9	1188.2
52.5°	16.5	27.7	413.0	648.0	735.2	788.8	883.6	937.8	943.7	987.3	1135.2
55°	14.7	21.2	44.8	597.9	625.0	636.8	692.2	787.0	863.6	886.6	888.3
57.5°	13.0	19.4	30.6	270.4	568.5	570.8	580.3	613.2	682.2	745.2	816.5
60°	11.8	17.1	24.2	46.5	516.6	522.5	524.3	533.1	541.4	584.4	666.3
62.5°	7.1	13.5	21.2	33.6	408.8	469.5	468.9	474.8	482.5	487.2	503.7
65°	5.9	10.6	18.3	28.3	50.1	62.4	379.4	421.8	426.5	433.0	435.9
67.5°	5.3	9.4	13.5	22.4	37.7	43.0	49.5	61.3	334.6	377.0	382.9
70°	4.7	6.5	11.2	18.9	30.6	33.0	37.1	42.4	50.1	61.9	302.8
72.5°	2.9	4.7	7.7	13.5	23.6	26.5	28.9	32.4	35.9	43.0	49.5
75°	1.2	3.5	6.5	10.0	18.3	20.0	21.8	24.2	27.1	31.8	35.3
77.5°	1.2	2.9	5.3	7.1	11.8	13.5	15.9	17.7	20.0	22.4	25.9
80°	4.1	2.4	3.5	5.3	8.2	8.8	10.0	11.2	13.0	14.7	17.1
82.5°	2.9	3.5	4.1	3.5	4.1	5.3	5.9	7.1	7.7	8.8	9.4
85°	2.4	2.4	2.9	2.9	2.9	2.9	2.9	2.9	3.5	4.1	5.3
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1956.4	1955.2	1951.6	1951.6	1951.1	1953.4	1955.2	1956.9	1956.4	1959.9	1956.4
5°	1971.1	1968.1	1962.8	1958.1	1956.4	1957.5	1955.8	1957.5	1955.2	1958.1	1952.8
7.5°	2011.7	2001.7	1981.1	1972.9	1962.3	1961.7	1956.4	1955.2	1951.6	1951.6	1945.2
10°	2083.6	2035.3	2029.4	2004.7	1995.8	1952.8	1962.3	1946.3	1944.6	1936.9	1934.0
12.5°	2142.5	2104.8	2093.6	2071.8	2047.1	1959.9	1979.3	1945.2	1943.4	1928.1	1912.2
15°	2143.7	2165.5	2134.9	2074.8	2069.5	2009.4	1969.9	1958.1	1942.8	1896.9	1904.5
17.5°	2074.8	2124.8	2139.6	2126.6	2088.9	2048.3	1992.9	1969.3	1923.4	1902.8	1888.6
20°	1962.8	2013.5	2076.5	2080.7	2104.2	2075.4	2002.9	1964.6	1909.2	1873.3	1861.5
22.5°	1873.9	1911.0	1983.5	2017.0	2045.9	2055.9	2010.0	1953.4	1884.5	1849.7	1842.7
25°	1826.8	1835.0	1856.8	1896.3	1959.9	2005.8	2012.3	1952.2	1916.3	1840.3	1800.3
27.5°	1809.7	1802.6	1793.8	1813.8	1861.5	1917.5	1954.6	1964.6	1875.1	1802.6	1762.6
30°	1766.1	1770.2	1756.7	1749.6	1780.8	1838.5	1904.5	1921.0	1852.1	1777.3	1731.3
32.5°	1712.5	1719.5	1721.9	1709.5	1703.1	1743.1	1814.4	1853.9	1850.3	1741.3	1690.1
35°	1645.3	1665.4	1670.7	1671.2	1660.6	1654.2	1695.4	1777.3	1808.5	1724.8	1650.6
37.5°	1574.6	1580.5	1609.4	1617.0	1617.0	1597.6	1628.2	1693.6	1737.2	1687.7	1602.3
40°	1486.3	1505.1	1532.2	1545.8	1559.3	1561.1	1544.0	1589.9	1661.8	1649.4	1557.0
42.5°	1422.1	1434.4	1450.9	1469.2	1496.9	1503.9	1486.3	1494.5	1569.3	1601.7	1498.0
45°	1347.2	1363.7	1368.5	1388.5	1417.3	1438.0	1437.4	1420.3	1480.4	1520.4	1455.0
47.5°	1270.7	1286.6	1294.8	1304.8	1326.0	1352.5	1367.3	1359.6	1371.4	1449.7	1397.9
50°	1191.7	1200.6	1217.1	1228.2	1242.4	1257.7	1293.0	1300.1	1283.6	1346.1	1334.9
52.5°	1116.9	1119.9	1131.0	1142.2	1161.1	1172.3	1200.6	1221.8	1220.6	1238.9	1264.8
55°	1058.6	1045.6	1048.0	1056.8	1069.2	1086.3	1102.2	1135.2	1146.4	1149.9	1191.1
57.5°	827.1	960.2	972.0	971.4	986.1	993.8	1008.5	1030.3	1070.4	1061.5	1107.5
60°	751.7	766.4	877.7	890.7	896.0	903.1	920.7	940.8	970.2	989.1	1009.1
62.5°	573.2	662.7	696.3	794.7	810.0	814.1	825.9	835.3	866.0	909.0	900.7
65°	443.6	481.9	584.4	624.4	708.1	718.7	735.2	745.2	754.0	803.5	805.9
67.5°	383.5	389.4	417.1	494.2	547.3	629.1	639.2	648.0	661.5	696.9	718.7
70°	327.5	334.6	342.3	348.7	417.7	471.9	547.9	550.8	559.6	583.2	632.7
72.5°	61.9	279.8	284.5	288.7	296.3	332.2	404.7	463.6	467.1	478.3	523.7
75°	41.8	48.9	67.2	230.9	238.6	240.9	253.3	326.9	381.1	383.5	403.5
77.5°	30.0	33.6	40.6	48.3	123.1	185.0	187.9	201.5	257.4	298.1	301.6
80°	20.6	23.0	27.1	30.6	37.7	49.5	136.7	140.8	147.9	203.8	214.4
82.5°	11.8	13.5	15.9	19.4	22.4	28.3	36.5	47.1	96.0	102.5	136.1
85°	5.9	6.5	7.7	9.4	11.2	13.5	18.3	22.4	30.6	55.4	57.1
87.5°	2.9	2.9	2.9	2.9	4.7	5.3	6.5	8.2	10.6	15.9	20.6
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: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1956.9	1965.2	1972.3	1974.0	1974.0	1975.2	1977.0	1978.2	1979.3	1980.5	1979.3
5°	1953.4	1962.3	1968.1	1969.9	1969.9	1973.4	1976.4	1979.9	1981.7	1981.7	1980.5
7.5°	1944.6	1951.1	1958.7	1963.4	1964.0	1969.9	1975.2	1974.6	1977.0	1978.2	1981.1
10°	1932.8	1932.8	1945.8	1949.3	1952.2	1958.7	1960.5	1964.0	1972.3	1973.4	1981.1
12.5°	1926.9	1921.0	1936.3	1938.1	1948.1	1939.9	1950.5	1954.0	1945.8	1956.9	1942.2
15°	1900.4	1907.5	1905.1	1910.4	1928.1	1918.7	1947.5	1938.1	1959.3	1934.0	1978.7
17.5°	1878.6	1877.4	1886.8	1891.6	1895.1	1915.1	1922.8	1933.4	1941.6	1934.6	1952.2
20°	1862.7	1853.3	1860.3	1865.6	1878.0	1893.3	1898.0	1882.1	1909.8	1956.9	1968.1
22.5°	1832.7	1826.2	1834.4	1834.4	1853.3	1850.9	1868.6	1858.6	1884.5	1939.3	1996.4
25°	1792.0	1792.6	1801.4	1812.0	1815.6	1842.1	1851.5	1864.5	1896.9	1962.3	1997.0
27.5°	1750.8	1747.2	1752.5	1774.3	1792.6	1812.0	1815.0	1859.2	1903.3	1948.1	1978.7
30°	1709.5	1706.0	1709.5	1725.4	1747.2	1760.2	1792.6	1851.5	1892.7	1923.4	1952.2
32.5°	1665.4	1661.8	1670.1	1681.8	1720.1	1721.9	1786.1	1841.5	1873.9	1896.3	1891.0
35°	1618.2	1613.5	1621.2	1639.4	1674.8	1687.7	1754.9	1796.1	1832.7	1843.3	1818.5
37.5°	1561.7	1553.4	1562.8	1588.2	1625.3	1663.0	1719.0	1766.7	1786.1	1757.8	1728.4
40°	1502.8	1496.9	1513.4	1526.3	1569.9	1622.3	1686.6	1720.1	1707.8	1675.4	1643.0
42.5°	1450.3	1438.0	1452.7	1477.4	1526.9	1586.4	1638.3	1657.1	1627.6	1579.9	1542.2
45°	1386.1	1371.4	1389.1	1422.1	1475.1	1542.8	1583.5	1577.0	1526.9	1485.7	1433.8
47.5°	1319.0	1301.3	1319.0	1358.4	1417.9	1489.8	1519.3	1489.8	1426.8	1374.9	1333.1
50°	1253.0	1232.4	1249.5	1309.0	1367.3	1422.6	1422.1	1364.9	1327.2	1270.7	1234.1
52.5°	1187.6	1158.1	1175.2	1240.0	1298.3	1361.4	1314.8	1261.8	1216.5	1167.0	1155.2
55°	1106.9	1075.1	1098.1	1192.3	1237.1	1274.2	1200.0	1153.4	1108.7	1083.9	1069.2
57.5°	1030.3	995.6	1015.6	1126.9	1159.9	1169.3	1101.0	1035.0	1008.5	1000.3	979.1
60°	951.4	911.9	930.8	1059.2	1082.2	1043.9	976.7	925.5	920.2	903.7	887.2
62.5°	876.0	832.4	844.2	974.9	985.5	916.0	854.2	840.6	827.7	811.2	802.3
65°	789.4	744.0	760.5	885.4	875.4	785.8	751.1	748.1	731.1	717.5	730.5
67.5°	709.9	656.2	679.2	787.6	742.3	669.2	655.1	648.0	634.4	642.1	506.0
70°	622.7	564.3	595.6	682.2	615.0	566.7	561.4	550.8	551.4	438.3	369.4
72.5°	525.5	474.8	520.2	566.7	486.6	472.4	464.8	463.6	374.1	304.0	286.9
75°	440.0	388.8	437.7	455.4	387.6	378.2	377.6	312.2	245.6	234.5	229.2
77.5°	343.4	304.0	350.5	324.0	297.5	286.9	257.4	193.2	185.0	177.3	66.6
80°	231.5	234.5	261.6	223.3	212.1	180.8	142.6	136.7	117.8	47.1	37.1
82.5°	140.8	176.7	166.7	139.6	136.7	98.4	90.1	45.9	34.2	27.1	23.6
85°	73.0	89.5	86.0	76.0	56.6	50.7	28.3	21.8	17.7	13.5	11.2
87.5°	24.7	33.0	31.8	25.3	19.4	15.3	10.0	8.2	5.9	4.7	4.1
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1978.2	1978.2	1977.0	1978.2	1978.7	1977.6	1977.6	1978.7	1979.3	1979.9	1982.9
5°	1981.1	1982.3	1984.0	1987.6	1988.2	1995.2	1998.2	2000.0	2001.7	2002.3	1998.2
7.5°	1987.6	1991.7	1995.2	1994.7	1990.5	1979.3	1975.8	1972.9	1978.2	1991.7	2007.6
10°	1993.5	1974.6	1939.3	1987.6	1972.9	1986.4	2026.5	2035.3	2062.4	2100.7	2111.9
12.5°	1952.8	2004.7	2015.9	1961.7	2061.8	2024.7	2068.9	2107.8	2118.9	2157.8	2134.3
15°	1996.4	2021.7	2038.8	2093.0	2087.1	2118.9	2131.3	2123.7	2125.4	2135.4	2162.0
17.5°	1995.8	2046.5	2057.7	2094.2	2118.9	2119.5	2116.0	2112.5	2121.9	2129.6	2113.6
20°	2030.0	2046.5	2068.3	2083.0	2087.7	2093.6	2104.8	2096.0	2078.3	2061.2	2054.1
22.5°	2012.9	2050.0	2068.9	2071.2	2068.3	2050.0	2033.5	2008.8	2000.5	1991.7	1994.7
25°	2016.4	2033.5	2031.2	2021.7	2009.4	1975.2	1967.0	1956.4	1940.5	1902.2	1867.4
27.5°	1991.1	1982.3	1971.7	1948.7	1926.3	1908.1	1887.4	1853.3	1825.0	1783.8	1768.4
30°	1948.7	1913.4	1887.4	1873.9	1852.1	1821.5	1790.2	1748.4	1712.5	1704.2	1696.6
32.5°	1867.4	1832.7	1811.4	1778.5	1741.3	1704.8	1668.9	1652.4	1644.7	1645.9	1638.8
35°	1784.3	1753.7	1721.9	1672.4	1644.7	1608.2	1595.2	1591.7	1584.6	1577.0	1568.7
37.5°	1696.0	1660.0	1612.3	1582.9	1555.2	1540.5	1534.0	1528.7	1516.3	1502.8	1493.3
40°	1610.6	1545.8	1519.3	1490.4	1482.1	1475.7	1466.2	1453.3	1436.2	1433.8	1429.7
42.5°	1496.3	1449.7	1426.8	1420.9	1410.9	1399.7	1391.4	1377.3	1370.2	1374.9	1378.5
45°	1387.9	1364.3	1356.7	1349.6	1330.7	1314.8	1309.5	1304.8	1310.7	1336.6	1274.8
47.5°	1300.1	1290.7	1281.3	1269.5	1251.8	1240.0	1245.3	1250.0	1255.3	1065.1	972.0
50°	1224.1	1211.2	1196.4	1183.5	1172.9	1171.7	1199.4	1116.3	934.9	930.2	835.9
52.5°	1141.1	1121.6	1112.8	1105.1	1109.8	1127.5	933.1	866.0	830.6	721.6	673.3
55°	1051.5	1034.4	1034.4	1041.5	1016.2	823.5	813.5	703.4	636.8	618.0	610.3
57.5°	962.0	960.2	970.2	887.2	747.6	716.9	602.6	578.5	567.9	565.5	553.2
60°	880.1	896.6	750.5	690.4	600.3	541.4	524.9	521.9	510.7	506.6	495.4
62.5°	814.7	675.7	629.1	513.7	483.6	476.0	467.1	463.0	453.0	400.0	117.2
65°	588.5	556.1	451.2	431.8	429.4	418.3	414.7	372.9	87.8	58.9	50.1
67.5°	444.2	394.1	380.6	377.0	365.8	343.4	101.9	58.3	50.1	43.6	38.3
70°	341.1	332.2	322.2	314.0	92.5	57.7	50.1	42.4	36.5	32.4	29.5
72.5°	279.2	273.3	159.1	60.7	49.5	41.8	37.1	32.4	28.3	25.9	23.6
75°	218.6	60.7	50.1	41.8	35.9	30.6	27.1	24.2	21.8	20.0	18.3
77.5°	49.5	40.1	34.2	28.9	25.9	23.0	20.6	17.7	15.9	14.1	11.8
80°	30.6	26.5	22.4	20.6	17.7	14.7	13.0	11.8	9.4	8.8	7.7
82.5°	20.0	15.9	14.1	11.8	9.4	8.8	7.7	5.9	5.3	4.7	4.1
85°	8.8	7.7	6.5	5.3	4.1	3.5	2.9	2.4	2.4	2.4	2.4
87.5°	2.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1984.0	1994.7	2004.7	2001.7	1991.1	1974.6	1969.9	1963.4	1968.1	1978.2	1982.3
5°	1998.2	1992.3	2013.5	2044.7	2095.4	2100.1	2135.4	2143.7	2172.0	2189.6	2189.0
7.5°	2018.2	2101.9	2136.6	2174.3	2191.4	2187.3	2192.6	2188.5	2182.0	2179.0	2175.5
10°	2120.1	2183.7	2196.7	2196.7	2170.2	2134.3	2118.9	2092.4	2039.4	2040.6	2031.8
12.5°	2179.6	2202.0	2171.4	2145.5	2038.8	1997.6	1952.8	1931.6	1919.2	1900.4	1907.5
15°	2148.4	2116.6	2098.3	2014.7	1949.3	1875.1	1876.2	1863.3	1849.7	1850.9	1842.1
17.5°	2102.5	2077.1	1947.5	1889.8	1858.0	1829.1	1823.8	1806.7	1797.9	1794.9	1794.4
20°	2039.4	1948.1	1851.5	1837.4	1799.1	1766.1	1760.8	1766.1	1793.2	1744.9	1581.1
22.5°	1965.8	1834.4	1806.1	1766.1	1740.2	1727.2	1759.6	1612.3	1389.7	1416.8	1387.9
25°	1840.9	1783.8	1735.5	1704.8	1701.9	1622.3	1352.0	1323.7	1180.5	1104.0	1017.9
27.5°	1749.6	1724.8	1674.2	1668.9	1630.6	1326.6	1185.8	1030.3	973.2	964.3	945.5
30°	1694.2	1658.9	1628.2	1494.5	1301.3	1068.0	951.4	929.6	919.6	909.0	892.5
32.5°	1627.6	1594.1	1608.8	1256.5	1037.4	919.6	896.0	880.1	861.8	854.8	795.3
35°	1559.9	1544.6	1257.1	1056.2	891.9	863.6	845.9	829.4	659.8	159.6	54.2
37.5°	1487.4	1483.9	1129.9	876.6	835.3	808.8	758.7	156.7	37.1	25.3	18.9
40°	1430.9	1130.5	893.1	821.8	788.2	746.4	104.9	25.9	16.5	10.0	6.5
42.5°	1393.2	1016.8	799.4	771.1	698.1	77.2	26.5	11.2	6.5	5.3	4.1
45°	1073.9	802.9	747.0	717.5	88.4	26.5	15.3	5.3	4.1	3.5	2.4
47.5°	990.8	729.3	696.3	156.7	29.5	14.1	10.6	3.5	2.4	2.4	2.4
50°	750.5	673.9	554.3	38.3	18.9	10.0	7.7	2.4	2.4	2.4	1.8
52.5°	658.0	622.1	59.5	25.3	14.7	7.7	4.7	1.8	1.8	1.8	1.8
55°	601.5	394.7	35.3	19.4	12.4	7.1	2.9	1.8	1.8	1.8	1.2
57.5°	550.2	53.0	25.9	16.5	11.2	6.5	1.8	1.8	1.8	1.8	1.2
60°	466.6	38.3	21.2	14.7	10.6	5.9	1.8	1.8	1.8	1.8	1.8
62.5°	60.7	30.0	18.3	13.0	7.7	4.7	1.2	1.8	1.8	1.8	1.8
65°	44.2	23.6	16.5	8.8	4.7	1.8	1.2	1.8	1.8	1.8	1.8
67.5°	34.2	19.4	12.4	7.7	4.1	1.2	1.2	1.8	1.8	1.8	1.8
70°	27.1	16.5	10.0	6.5	3.5	1.2	1.2	1.8	1.8	1.8	1.8
72.5°	21.2	11.8	7.1	3.5	2.4	1.2	1.2	1.8	1.8	1.8	1.8
75°	15.9	9.4	5.3	2.9	1.2	1.2	1.2	1.8	1.8	1.8	1.8
77.5°	10.6	5.9	4.1	2.4	2.4	2.4	2.9	2.9	1.8	1.8	1.8
80°	7.1	4.1	2.9	2.9	2.9	2.4	2.9	2.9	1.8	2.9	1.8
82.5°	3.5	2.9	2.9	2.4	2.4	1.8	2.4	2.4	2.4	2.4	1.8
85°	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	1.8
87.5°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	2.4	2.4	1.8
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1977.0	1978.7	1974.0	1999.4	1986.4	1987.6	1992.9	1979.3	1982.3	1972.9	1966.4
5°	2191.4	2194.9	2198.5	2199.7	2202.0	2205.0	2201.4	2199.7	2196.1	2184.3	2172.0
7.5°	2157.8	2153.7	2151.9	2154.3	2158.4	2160.2	2157.2	2161.4	2176.7	2183.2	2187.3
10°	1981.1	1962.3	1975.2	1973.4	1958.7	2008.2	1994.7	2002.3	2007.6	2061.8	2094.8
12.5°	1896.9	1908.6	1886.3	1875.1	1889.8	1899.8	1909.8	1888.6	1918.1	1904.5	1948.1
15°	1826.2	1819.1	1816.7	1817.3	1814.4	1828.5	1832.1	1836.8	1840.9	1859.2	1866.2
17.5°	1794.4	1806.1	1810.9	1814.4	1808.5	1802.0	1795.5	1786.1	1789.1	1784.3	1797.9
20°	1471.0	1431.5	1429.1	1452.1	1426.8	1440.9	1475.1	1703.6	1696.0	1784.9	1754.9
22.5°	1227.7	1190.5	1158.7	1131.0	1170.5	1187.0	1250.6	1322.5	1439.1	1420.9	1547.5
25°	1002.6	989.1	980.8	976.7	979.7	978.5	992.6	1026.2	1079.2	1204.1	1365.5
27.5°	937.8	931.3	928.4	919.0	926.0	923.7	934.9	942.0	957.9	970.2	1022.7
30°	886.6	878.9	873.6	863.6	870.7	871.3	874.8	893.1	899.5	910.1	926.6
32.5°	324.0	190.9	179.1	170.2	186.2	242.7	425.9	744.6	849.5	857.7	876.6
35°	31.8	26.5	23.6	23.6	24.2	26.5	35.3	93.1	170.2	658.0	823.5
37.5°	12.4	10.6	8.8	8.2	8.8	10.0	13.5	17.7	24.2	50.1	223.3
40°	5.3	4.7	4.1	4.1	4.1	4.1	4.7	5.9	8.8	16.5	25.9
42.5°	3.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.1	5.3	10.6
45°	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.9	4.7
47.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4
50°	1.8	1.8	1.8	1.8	1.2	1.8	1.2	1.8	1.8	1.8	1.8
52.5°	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8
57.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.8	1.8	1.2	1.8	1.2	1.2	1.8	1.8	1.8	1.2	1.2
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	2.4
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.9	3.5	2.9
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.9	2.9	2.9
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1955.2	1954.6	1967.0	1976.4	1972.9	1976.4	1980.5	1981.1	1982.3	1977.6	1975.8
5°	2148.4	2130.1	2094.8	2069.5	2040.0	1986.4	1959.9	1962.8	1963.4	1961.7	1964.0
7.5°	2185.5	2183.7	2171.4	2166.1	2146.0	2107.8	2046.5	2035.9	2010.0	1993.5	1979.9
10°	2092.4	2134.9	2146.0	2164.9	2176.7	2169.6	2117.8	2110.1	2093.6	2074.8	2078.9
12.5°	1991.7	2026.5	2028.2	2130.7	2153.7	2156.1	2136.0	2146.6	2149.0	2106.6	2081.8
15°	1868.0	1884.5	1919.2	2014.7	2084.2	2127.8	2140.7	2146.6	2117.8	2116.0	2106.0
17.5°	1813.8	1824.4	1840.3	1893.9	1999.4	2063.6	2118.4	2114.2	2125.4	2117.2	2091.9
20°	1745.5	1754.3	1782.6	1809.7	1861.5	1946.9	2049.4	2057.1	2071.8	2070.1	2077.1
22.5°	1744.3	1713.1	1717.8	1739.0	1793.2	1869.8	1978.7	2004.1	2013.5	2020.0	2027.6
25°	1383.8	1631.8	1677.1	1690.7	1726.0	1770.8	1899.2	1908.6	1926.3	1955.2	1976.4
27.5°	1198.8	1367.3	1548.7	1643.0	1665.4	1702.5	1779.0	1793.2	1853.3	1860.3	1893.3
30°	946.1	1076.3	1347.2	1574.0	1611.2	1637.1	1691.3	1719.5	1745.5	1773.7	1808.5
32.5°	890.1	910.7	1060.9	1302.5	1591.1	1571.7	1611.7	1628.8	1657.1	1681.8	1707.2
35°	838.9	853.0	884.8	1066.8	1296.0	1518.1	1545.2	1556.4	1572.3	1591.1	1609.4
37.5°	785.3	806.5	828.3	877.2	1198.8	1475.7	1475.1	1488.0	1497.5	1513.4	1528.7
40°	142.6	740.5	775.8	807.6	929.6	1177.0	1409.1	1415.0	1421.5	1431.5	1447.4
42.5°	23.0	123.7	726.9	757.6	792.3	1053.9	1379.1	1354.9	1350.8	1357.8	1372.0
45°	11.8	30.0	146.1	707.5	738.7	840.6	1127.5	1313.1	1309.0	1295.4	1298.3
47.5°	8.8	18.9	35.9	244.5	691.6	721.6	1040.3	1029.1	1107.5	1257.7	1234.7
50°	7.7	13.0	21.2	50.1	610.9	664.5	801.2	936.1	977.3	982.6	1162.9
52.5°	7.1	8.8	15.3	32.4	128.4	614.4	651.5	698.7	768.2	917.2	913.7
55°	6.5	8.2	13.0	21.8	44.8	553.7	592.0	600.9	615.6	686.9	781.1
57.5°	3.5	7.7	12.4	18.9	33.6	101.3	537.2	544.3	556.1	559.0	592.6
60°	1.8	7.1	11.2	16.5	24.7	47.1	483.1	491.3	498.4	499.5	510.1
62.5°	1.2	6.5	9.4	15.3	20.6	33.6	114.3	233.3	443.6	443.6	456.0
65°	1.2	4.7	5.9	10.0	18.9	27.7	48.3	56.0	109.0	268.0	400.0
67.5°	1.2	1.8	5.3	8.2	14.1	21.2	35.3	41.2	49.5	56.6	104.9
70°	1.2	1.2	4.7	5.3	8.8	15.9	25.3	28.9	33.6	38.3	44.2
72.5°	1.2	1.2	4.1	4.1	5.9	10.6	19.4	21.2	24.2	27.1	31.2
75°	2.9	2.4	3.5	3.5	4.1	8.2	14.7	16.5	17.7	20.0	23.0
77.5°	2.9	2.9	2.9	2.9	2.9	5.3	9.4	10.6	12.4	13.5	15.9
80°	2.4	2.4	2.4	2.9	2.9	3.5	5.9	6.5	7.1	8.8	9.4
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	4.1	5.3
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4
87.5°	1.8	1.8	1.8	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1975.2	1971.7	1968.7	1970.5	1965.2	1962.8	1964.6	1965.2	1966.4	1969.3	1969.9
5°	1969.9	1968.7	1974.0	1977.0	1975.8	1977.0	1977.0	1974.6	1971.1	1973.4	1968.1
7.5°	1966.4	1958.7	1952.8	1954.0	1948.1	1955.2	1961.7	1971.1	1974.0	1974.0	1968.1
10°	2027.1	2018.8	1985.8	1963.4	1948.7	1935.7	1966.4	1935.2	1949.9	1893.9	1958.1
12.5°	2077.1	2088.3	2073.6	2012.3	2001.7	1962.8	1985.2	1946.9	1935.7	1871.5	1892.1
15°	2097.2	2075.9	2071.2	2054.1	2031.2	2020.0	1959.9	1953.4	1935.2	1942.2	1915.1
17.5°	2079.5	2090.1	2075.9	2064.8	2041.2	2014.7	1978.7	1946.9	1921.6	1865.1	1912.8
20°	2062.4	2076.5	2034.1	2041.2	2043.5	2012.9	1994.1	1967.6	1935.7	1882.7	1841.5
22.5°	2034.1	2024.1	2027.6	2017.0	2008.2	2012.3	1986.4	1968.1	1914.5	1890.4	1834.4
25°	1988.2	1984.6	1994.1	1992.9	1971.7	1964.6	1951.6	1932.2	1911.0	1872.1	1826.2
27.5°	1913.4	1931.6	1948.1	1955.8	1944.6	1925.7	1918.7	1907.5	1892.7	1853.3	1819.1
30°	1834.4	1855.0	1873.9	1890.4	1900.4	1892.1	1885.7	1879.2	1856.8	1830.9	1792.6
32.5°	1744.3	1771.4	1797.3	1817.3	1839.1	1845.6	1840.9	1835.6	1816.7	1793.2	1762.6
35°	1640.0	1677.1	1714.8	1750.8	1760.2	1775.5	1790.8	1782.0	1772.0	1748.4	1720.1
37.5°	1551.7	1578.2	1605.3	1650.6	1683.6	1703.1	1730.2	1733.7	1716.6	1705.4	1668.3
40°	1460.3	1484.5	1524.0	1550.5	1595.8	1618.2	1647.1	1660.0	1655.9	1649.4	1617.0
42.5°	1388.5	1400.3	1426.2	1449.7	1494.5	1540.5	1565.8	1579.9	1594.7	1589.4	1572.9
45°	1311.9	1322.5	1331.3	1352.0	1395.5	1436.2	1467.4	1488.6	1515.1	1527.5	1507.5
47.5°	1235.9	1238.9	1249.5	1266.5	1292.5	1323.7	1376.1	1407.9	1432.7	1456.8	1443.9
50°	1177.6	1167.0	1168.7	1179.4	1200.6	1231.2	1268.9	1313.7	1341.9	1371.4	1374.3
52.5°	1029.1	1115.1	1094.5	1100.4	1111.6	1126.3	1165.8	1210.0	1244.7	1270.1	1295.4
55°	863.6	880.7	1046.2	1022.7	1029.7	1042.7	1060.9	1105.1	1138.7	1174.1	1209.4
57.5°	669.8	797.0	803.5	956.7	953.1	954.3	969.6	995.0	1028.5	1072.7	1102.8
60°	520.8	574.4	678.6	731.6	866.0	870.7	879.5	894.2	923.1	964.9	1012.6
62.5°	459.5	466.6	503.7	583.2	670.4	775.8	794.7	797.0	810.0	851.8	907.2
65°	403.5	408.2	419.4	427.7	500.7	602.6	693.4	708.1	716.3	741.1	788.2
67.5°	278.0	351.7	361.7	367.6	374.7	421.8	534.3	609.1	618.5	640.3	681.6
70°	53.6	111.3	304.6	311.0	314.6	325.2	343.4	462.4	524.9	545.5	564.3
72.5°	36.5	43.0	51.8	122.5	259.2	265.1	269.2	284.5	390.0	450.1	460.1
75°	26.5	29.5	34.8	43.0	53.0	172.6	213.8	221.5	229.2	316.3	367.0
77.5°	18.9	21.2	23.6	27.7	32.4	41.8	60.1	165.5	173.2	177.3	250.4
80°	10.6	13.0	15.9	18.3	20.6	23.6	30.6	38.3	85.4	124.9	131.4
82.5°	5.9	7.1	8.2	10.0	11.2	14.1	17.1	20.6	27.1	40.1	84.8
85°	2.9	2.9	2.9	4.1	4.7	6.5	7.7	8.8	12.4	17.1	23.6
87.5°	1.8	1.8	2.4	2.4	2.4	2.9	2.9	2.9	3.5	5.3	7.7
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1970.5	1968.7	1968.7	1975.8	1974.0
5°	1967.0	1965.2	1964.6	1972.3	1968.7
7.5°	1964.0	1957.5	1955.8	1962.8	1959.9
10°	1952.2	1947.5	1950.5	1948.1	1946.9
12.5°	1932.2	1929.3	1916.9	1918.1	1928.1
15°	1896.3	1908.1	1886.8	1905.7	1909.8
17.5°	1830.3	1856.8	1877.4	1888.6	1890.4
20°	1859.7	1868.6	1858.0	1858.6	1865.6
22.5°	1821.5	1825.6	1828.5	1825.0	1840.3
25°	1760.2	1744.3	1778.5	1785.5	1810.3
27.5°	1741.3	1728.4	1744.3	1743.1	1763.7
30°	1726.0	1684.2	1691.3	1702.5	1727.8
32.5°	1704.2	1638.3	1631.2	1655.9	1684.2
35°	1665.9	1603.5	1587.0	1602.9	1645.3
37.5°	1633.5	1555.2	1522.2	1543.4	1598.8
40°	1585.2	1517.5	1466.2	1485.1	1550.5
42.5°	1527.5	1485.1	1406.2	1419.1	1493.9
45°	1469.2	1431.5	1347.8	1354.3	1443.3
47.5°	1409.7	1374.9	1287.2	1288.3	1378.5
50°	1351.4	1305.4	1233.0	1212.3	1309.5
52.5°	1275.4	1233.0	1178.2	1144.6	1244.2
55°	1203.5	1155.8	1115.7	1063.9	1169.9
57.5°	1133.4	1080.4	1053.3	986.7	1085.7
60°	1037.4	1012.1	972.0	908.4	1009.7
62.5°	939.0	930.8	890.1	824.1	916.0
65°	824.1	843.6	801.7	745.2	818.8
67.5°	715.7	750.5	704.5	669.8	725.2
70°	600.3	640.3	614.4	602.0	625.6
72.5°	486.6	525.5	527.8	519.0	526.6
75°	375.8	418.8	442.4	428.9	430.6
77.5°	285.1	305.7	331.7	342.3	339.9
80°	176.1	212.1	233.3	255.1	247.4
82.5°	89.0	119.0	144.9	168.5	157.3
85°	37.1	47.7	66.6	87.8	84.2
87.5°	11.2	18.9	20.0	28.3	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)