

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-LD5-39SL-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-LD5-39SL-RM-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

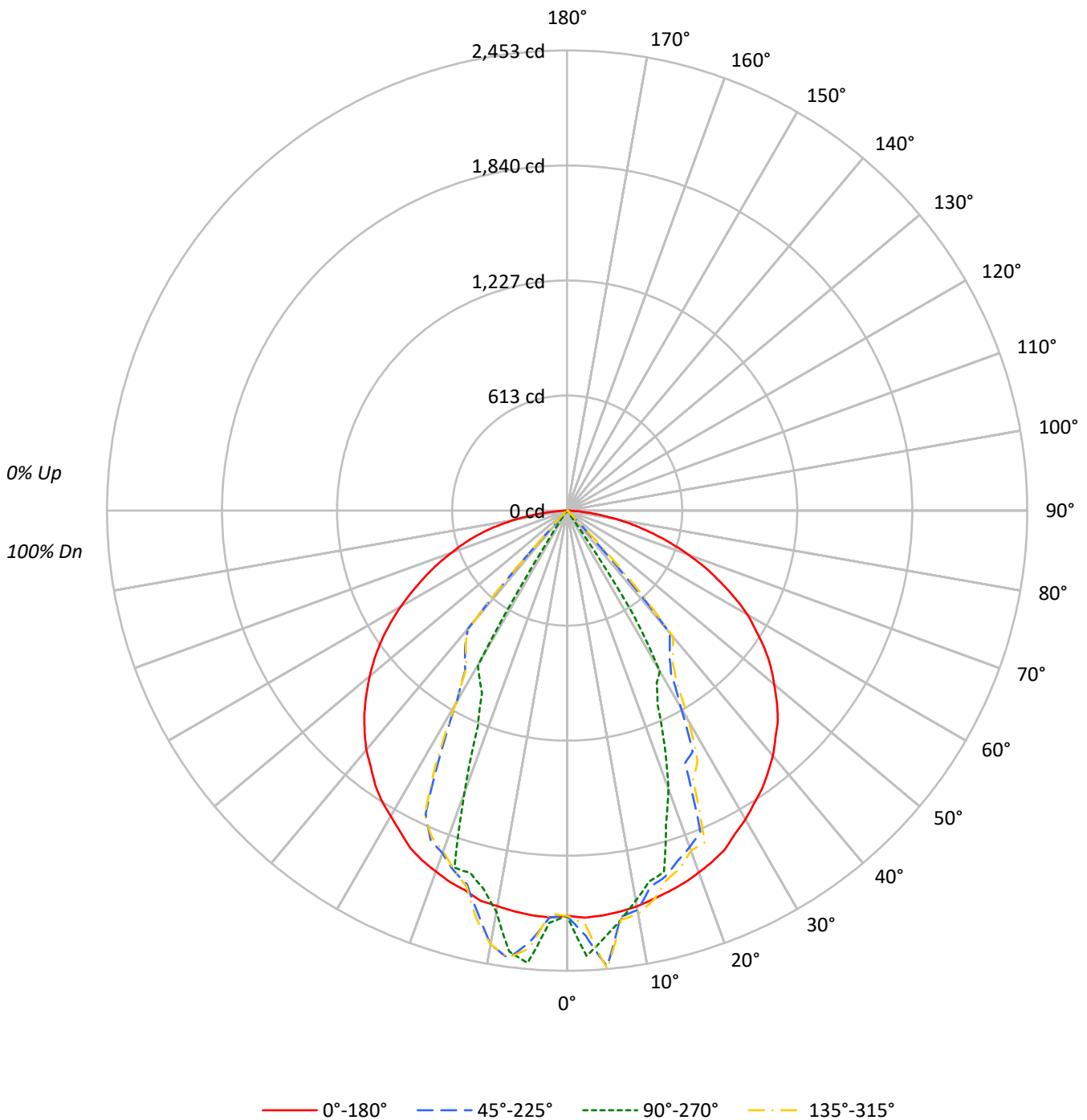
Lumens per Lamp: N/A
Luminaire Lumens: 3070.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
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	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°	17453	17453	17453	17453
5°	17524	17950	17519	19009
10°	17483	16243	17472	16712
15°	17435	15161	17391	15201
20°	17455	11941	17405	12089
25°	17506	8642	17420	8155
30°	17425	7581	17241	7287
35°	17477	167	17221	202
40°	17537	36	17117	36
45°	17599	22	16938	16
50°	17464	17	16663	17
55°	17362	12	16295	12
60°	17034	13	15702	13
65°	16146	20	14996	14
70°	14979	22	14259	22
75°	13248	25	13466	25
80°	10760	28	11377	28
85°	6333	33	6463	33



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	7.1
10°-20°	591.0	19.2
20°-30°	752.1	24.5
30°-40°	635.3	20.7
40°-50°	415.3	13.5
50°-60°	261.7	8.5
60°-70°	139.3	4.5
70°-80°	50.8	1.7
80°-90°	8.7	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°	1559.8	50.8
0°-40°	2195.1	71.5
0°-60°	2872.1	93.5
0°-90°	3070.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3070.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2160	2160	2160	2160	2160	
5°	2166	2286	2166	2420	2166	206
15°	2101	1994	2096	2000	2101	594
25°	1992	1139	1982	1075	1992	916
35°	1810	21	1784	26	1810	1133
45°	1588	3	1528	2	1588	1221
55°	1287	1	1208	1	1287	1147
65°	901	2	837	1	901	892
75°	474	2	482	2	474	503
85°	93	2	95	2	93	117
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°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2172.1	2173.4	2174.0	2175.3	2177.3	2177.9	2179.2	2177.9	2177.9	2177.9	2177.9
5°	2166.2	2168.8	2170.8	2173.4	2177.9	2178.6	2183.7	2184.4	2187.0	2192.2	2196.1
7.5°	2156.5	2159.1	2163.0	2169.5	2176.0	2183.1	2192.2	2201.9	2215.5	2228.5	2244.7
10°	2142.3	2145.5	2150.0	2155.9	2187.6	2192.2	2212.3	2240.1	2247.9	2288.7	2319.2
12.5°	2121.5	2132.5	2144.2	2149.4	2179.9	2227.8	2295.2	2281.6	2266.7	2400.2	2398.3
15°	2101.4	2116.3	2110.5	2152.6	2180.5	2264.1	2235.6	2296.5	2408.0	2380.8	2382.1
17.5°	2080.0	2083.3	2115.7	2150.7	2200.6	2243.4	2278.4	2362.0	2384.0	2386.0	2362.0
20°	2052.8	2068.4	2115.7	2147.4	2231.7	2251.8	2327.6	2370.4	2361.3	2339.3	2298.5
22.5°	2024.9	2072.3	2120.2	2164.9	2223.9	2277.7	2315.3	2335.4	2288.1	2201.2	2154.6
25°	1991.9	2019.7	2082.6	2148.1	2222.0	2253.1	2275.1	2242.7	2181.1	2103.4	2024.9
27.5°	1940.7	1985.4	2065.8	2139.7	2206.4	2244.0	2208.4	2130.6	2031.4	1980.2	1944.6
30°	1901.1	1959.5	2025.6	2096.9	2166.2	2188.3	2097.5	2008.7	1940.7	1889.5	1881.7
32.5°	1853.2	1936.1	1999.0	2067.1	2125.4	2096.2	2008.1	1893.4	1837.0	1817.5	1825.3
35°	1810.4	1873.3	1955.6	2022.3	2064.5	1999.0	1859.6	1788.3	1761.1	1772.1	1757.9
37.5°	1759.2	1842.1	1918.0	1975.7	1961.4	1862.9	1744.9	1699.5	1702.8	1693.7	1666.5
40°	1706.0	1785.1	1864.2	1918.6	1868.7	1718.3	1639.9	1630.2	1632.1	1603.0	1564.1
42.5°	1643.8	1715.7	1794.8	1844.1	1736.5	1619.2	1566.0	1567.3	1550.5	1509.6	1488.9
45°	1588.1	1654.2	1736.5	1741.0	1608.8	1510.9	1495.4	1478.5	1440.9	1427.3	1411.7
47.5°	1516.8	1590.0	1658.1	1633.4	1483.7	1422.8	1411.1	1374.2	1355.4	1345.0	1332.0
50°	1440.9	1514.8	1577.0	1507.0	1365.7	1351.5	1313.2	1284.1	1271.1	1260.1	1248.4
52.5°	1369.0	1429.9	1493.4	1372.9	1275.0	1261.4	1217.9	1201.1	1188.1	1175.8	1173.2
55°	1287.3	1341.1	1384.5	1245.2	1188.1	1156.4	1125.3	1113.6	1101.3	1095.4	1105.2
57.5°	1194.6	1255.5	1249.1	1119.4	1094.1	1048.1	1036.4	1028.7	1019.6	1023.5	942.5
60°	1111.0	1157.7	1125.9	1027.4	984.6	953.5	943.1	937.9	943.1	864.0	759.7
62.5°	1007.9	1060.4	996.3	919.8	874.4	859.5	850.4	857.6	781.7	694.9	669.6
65°	901.0	958.0	863.4	804.4	775.9	762.9	762.3	702.0	627.4	593.7	593.7
67.5°	797.9	856.9	735.0	685.8	674.8	676.1	638.5	547.1	526.3	503.6	438.2
70°	688.4	740.2	607.4	577.5	571.1	566.5	475.1	450.5	425.9	365.6	360.4
72.5°	579.5	604.8	488.1	481.0	479.7	398.6	380.5	338.4	309.8	302.7	299.5
75°	473.8	466.0	385.7	392.2	330.6	302.1	272.9	248.3	244.4	241.8	60.3
77.5°	374.0	335.1	304.0	264.5	236.6	200.9	195.1	191.2	125.7	45.4	36.9
80°	272.2	217.1	202.2	171.8	146.5	140.7	143.9	44.1	35.0	29.2	25.3
82.5°	173.1	138.7	113.4	99.2	96.6	42.1	31.1	25.3	22.0	18.8	15.6
85°	92.7	61.6	57.0	48.0	28.5	19.4	16.2	12.3	10.4	8.4	7.8
87.5°	29.2	24.6	20.1	16.2	9.7	6.5	5.2	4.5	3.9	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°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2176.6	2177.9	2177.3	2179.2	2179.2	2181.8	2183.7	2185.7	2189.6	2191.5	2206.4
5°	2204.5	2207.7	2217.4	2226.5	2237.5	2240.8	2259.6	2264.1	2286.2	2288.7	2361.3
7.5°	2266.7	2279.0	2302.4	2325.7	2349.0	2363.9	2389.9	2406.1	2423.6	2439.1	2496.8
10°	2341.9	2362.6	2385.3	2408.7	2422.3	2450.8	2466.3	2468.9	2464.4	2439.1	2345.8
12.5°	2415.8	2436.5	2426.8	2431.3	2447.6	2397.0	2404.1	2367.8	2393.1	2268.0	2175.3
15°	2405.4	2404.1	2380.1	2302.4	2315.3	2218.7	2179.9	2150.0	2174.0	2161.1	2146.8
17.5°	2374.3	2315.3	2273.8	2180.5	2141.0	2113.7	2114.4	2115.0	2103.4	2115.7	2079.4
20°	2242.7	2176.6	2115.0	2082.0	2070.3	2050.9	2060.6	2050.9	2051.5	2055.4	1999.7
22.5°	2067.7	2047.6	2012.0	2022.3	2018.5	2036.0	2023.0	2002.9	2009.4	1980.2	1938.1
25°	1997.1	1973.7	1972.4	1976.3	1970.5	1962.7	1951.0	1920.6	1918.6	1909.6	1890.1
27.5°	1925.8	1927.1	1930.9	1919.3	1898.5	1883.0	1865.5	1850.6	1856.4	1846.0	1819.5
30°	1876.5	1875.9	1852.5	1842.1	1803.9	1804.6	1800.0	1790.9	1785.1	1785.8	1768.9
32.5°	1806.5	1786.4	1759.8	1746.9	1743.6	1732.0	1722.9	1724.8	1729.4	1713.2	1730.7
35°	1734.5	1693.1	1689.2	1678.2	1667.8	1660.0	1663.2	1650.3	1649.6	1647.7	1505.1
37.5°	1638.0	1617.9	1615.9	1604.3	1597.1	1595.2	1582.9	1584.8	1590.6	1601.0	1283.4
40°	1558.2	1540.1	1535.6	1534.9	1519.3	1518.1	1521.3	1533.6	1542.0	1477.2	1223.1
42.5°	1472.7	1474.0	1459.7	1450.6	1452.6	1458.4	1474.0	1431.2	1240.0	1181.6	1118.1
45°	1399.4	1393.0	1385.2	1382.6	1399.4	1387.8	1216.6	1122.7	1100.0	1097.4	919.1
47.5°	1322.9	1321.0	1317.8	1319.7	1223.8	1090.9	1052.0	1039.7	1043.6	1041.0	789.5
50°	1245.8	1248.4	1248.4	1090.2	1000.8	978.8	982.0	993.0	924.3	862.7	735.7
52.5°	1179.1	1159.0	993.0	936.0	915.9	925.6	902.3	816.1	753.8	717.5	680.6
55°	1055.2	907.5	870.5	861.4	868.6	782.4	729.2	673.5	657.3	653.4	632.0
57.5°	830.3	800.5	803.8	767.5	685.1	636.5	615.1	607.4	600.2	595.0	51.9
60°	734.4	742.8	679.9	602.2	569.1	562.6	557.4	550.3	549.0	539.9	33.1
62.5°	672.2	591.1	536.7	517.3	509.5	507.5	497.8	494.6	420.0	57.7	24.6
65°	506.9	473.8	463.5	458.9	450.5	450.5	374.0	59.0	48.0	41.5	22.0
67.5°	413.5	411.0	405.8	399.9	272.2	57.0	49.9	43.4	37.6	33.1	19.4
70°	350.0	348.7	317.6	58.3	48.6	42.8	37.6	33.7	31.1	27.9	17.5
72.5°	287.1	58.3	49.3	42.8	36.9	33.7	30.5	27.2	24.6	22.7	14.3
75°	44.7	39.5	35.0	31.8	29.2	25.9	23.3	21.4	20.7	18.1	9.7
77.5°	32.4	27.9	25.3	22.7	20.1	18.1	15.6	13.6	12.3	10.4	7.1
80°	22.7	20.1	18.1	14.9	13.0	11.0	9.7	8.4	7.8	6.5	3.2
82.5°	13.0	11.0	9.7	7.8	7.1	5.8	5.2	4.5	4.5	3.2	3.2
85°	5.8	5.8	4.5	3.9	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°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2227.2	2235.6	2251.8	2268.7	2249.9	2317.3	2312.1	2334.8	2347.1	2352.9	2366.5
5°	2425.5	2463.1	2475.4	2438.5	2417.1	2395.0	2345.1	2307.5	2312.1	2299.8	2255.0
7.5°	2421.6	2341.2	2233.0	2183.7	2179.9	2174.0	2189.6	2198.6	2199.9	2199.3	2198.0
10°	2216.8	2175.3	2168.2	2161.7	2164.3	2140.3	2129.3	2098.2	2115.0	2106.0	2109.2
12.5°	2154.6	2144.8	2106.6	2053.5	2085.2	2061.2	2047.6	2056.7	2046.3	2036.6	2033.4
15°	2117.6	2054.8	2033.4	2020.4	2011.3	2006.1	2010.7	2000.3	1997.1	1995.1	1999.7
17.5°	2041.1	2015.9	1992.5	1958.2	1958.8	1956.9	1969.8	1989.3	1990.6	1890.8	1800.7
20°	1980.9	1960.1	1930.3	1908.9	1938.1	1886.2	1685.9	1590.6	1575.7	1575.7	1578.3
22.5°	1932.9	1886.9	1888.8	1855.1	1582.2	1526.5	1527.8	1533.6	1507.0	1416.3	1406.6
25°	1867.4	1860.3	1718.3	1485.0	1486.9	1443.5	1376.7	1282.8	1181.0	1181.0	1164.1
27.5°	1818.2	1667.1	1459.7	1450.0	1304.2	1212.1	1155.1	1068.9	1057.2	1046.2	1047.5
30°	1776.0	1410.5	1415.6	1212.1	1104.5	1028.0	1023.5	1009.2	1002.1	1000.2	993.0
32.5°	1404.0	1373.5	1184.9	1031.9	989.8	977.5	971.6	955.4	954.8	942.5	856.9
35°	1316.5	1205.6	991.7	950.2	937.9	926.3	916.5	615.1	72.6	29.2	25.3
37.5°	1216.6	1007.3	917.2	898.4	886.7	655.3	65.5	22.7	16.2	11.7	10.4
40°	1031.3	899.7	871.2	850.4	350.7	22.7	14.3	11.0	6.5	5.8	5.2
42.5°	869.9	847.8	817.4	248.9	25.9	11.0	7.1	5.2	4.5	4.5	3.9
45°	814.1	794.7	329.3	24.6	16.2	5.2	4.5	4.5	3.9	2.6	2.6
47.5°	762.3	670.9	29.8	15.6	10.4	4.5	3.9	2.6	2.6	2.6	1.9
50°	707.2	36.9	20.7	11.7	6.5	2.6	2.6	2.6	2.6	1.9	1.9
52.5°	132.2	25.9	16.9	10.4	3.2	2.6	2.6	2.6	1.9	1.9	1.9
55°	31.1	20.7	15.6	9.1	2.6	2.6	2.6	1.9	1.9	1.9	1.3
57.5°	23.3	15.6	12.3	8.4	2.6	1.9	1.9	1.9	1.9	1.9	1.3
60°	19.4	11.0	9.7	7.8	1.9	1.9	1.9	1.9	1.9	1.9	1.3
62.5°	13.6	9.1	7.1	5.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	11.0	7.1	5.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	9.7	5.8	3.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	7.8	1.9	1.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	6.5	1.9	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	6.5	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	3.9	4.5	2.6	1.9	1.9	1.9
82.5°	2.6	3.2	3.9	3.9	1.9	3.2	3.9	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2373.0	2375.6	2334.8	2320.5	2332.8	2330.2	2319.2	2278.4	2273.8	2246.6	2207.1
5°	2268.0	2285.5	2264.1	2301.1	2283.6	2301.1	2354.2	2378.8	2419.0	2443.7	2452.7
7.5°	2194.8	2198.6	2198.6	2201.9	2205.1	2205.8	2201.9	2199.3	2188.3	2174.7	2199.3
10°	2106.0	2110.5	2118.3	2117.0	2116.3	2129.9	2133.2	2161.1	2159.8	2164.9	2183.7
12.5°	2059.9	2024.9	2056.7	2048.3	2059.9	2041.8	2075.5	2069.7	2071.6	2087.2	2127.3
15°	1983.5	1994.5	2002.2	2002.2	2006.8	2002.9	1999.0	2025.6	2041.8	2042.4	2039.8
17.5°	1836.3	1752.7	1838.3	1816.2	1991.9	1996.4	1981.5	1969.2	1969.2	1978.9	1999.7
20°	1576.4	1578.3	1579.0	1587.4	1597.8	1597.1	1597.8	1853.2	1974.4	1946.5	1927.7
22.5°	1381.9	1358.0	1402.7	1399.4	1455.2	1516.8	1575.7	1569.9	1573.8	1754.0	1916.0
25°	1107.8	1138.9	1113.6	1124.6	1187.5	1260.7	1306.1	1424.7	1553.7	1544.6	1586.8
27.5°	1042.9	1034.5	1046.2	1046.2	1054.6	1064.3	1089.6	1156.4	1271.1	1391.7	1505.7
30°	981.4	988.5	989.8	1001.4	1007.9	1014.4	1018.3	1043.6	1069.5	1153.1	1293.8
32.5°	737.0	646.2	850.4	905.5	952.2	963.2	971.0	981.4	1000.2	1012.5	1083.1
35°	21.4	21.4	22.7	25.9	33.1	223.0	849.1	936.0	948.3	963.9	976.8
37.5°	10.4	7.8	9.1	9.7	11.7	16.2	23.3	72.6	808.3	913.9	928.2
40°	4.5	4.5	4.5	4.5	5.2	6.5	9.7	16.2	24.6	650.1	877.0
42.5°	3.9	3.9	3.9	3.9	3.9	3.9	4.5	5.8	11.7	27.9	460.2
45°	2.6	2.6	1.9	2.6	2.6	3.2	3.9	3.9	5.2	17.5	31.8
47.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.2	3.9	11.7	16.9
50°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	9.1	11.7
52.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.9	10.4
55°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9	2.6	9.1
57.5°	1.3	1.3	1.3	1.3	1.3	1.9	1.3	1.3	1.9	1.9	8.4
60°	1.3	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	7.8
62.5°	1.9	1.9	1.3	1.9	1.3	1.3	1.9	1.9	1.9	1.9	5.2
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	3.9	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2210.3	2188.3	2181.1	2166.2	2164.9	2166.2	2163.0	2158.5	2161.1	2156.5	2152.6
5°	2457.9	2398.9	2360.7	2309.5	2238.8	2223.3	2219.4	2197.4	2189.6	2187.0	2176.6
7.5°	2257.6	2365.2	2430.1	2452.1	2369.1	2349.7	2327.0	2308.8	2291.3	2258.3	2238.2
10°	2168.8	2174.0	2236.2	2308.8	2426.8	2443.0	2455.3	2415.8	2404.8	2320.5	2302.4
12.5°	2148.1	2148.7	2155.9	2199.9	2292.6	2303.0	2346.4	2369.8	2398.3	2414.5	2401.5
15°	2053.5	2106.0	2144.8	2148.7	2157.2	2175.3	2188.3	2269.3	2303.7	2395.7	2390.5
17.5°	2009.4	2026.2	2082.6	2128.6	2120.9	2114.4	2124.8	2135.8	2168.8	2260.9	2259.6
20°	1936.1	1989.9	2020.4	2068.4	2111.8	2113.7	2102.1	2095.6	2082.6	2097.5	2111.1
22.5°	1905.0	1913.4	1970.5	2004.2	2053.5	2071.0	2073.5	2074.2	2067.1	2059.3	2055.4
25°	1901.8	1875.2	1904.4	1946.5	1982.8	2001.6	2023.0	2030.1	2027.5	2027.5	2023.6
27.5°	1556.3	1866.8	1851.2	1879.1	1923.2	1936.1	1947.2	1969.2	1982.8	1992.5	1997.1
30°	1482.4	1538.1	1809.7	1813.6	1858.4	1857.1	1869.4	1887.5	1905.0	1927.7	1933.5
32.5°	1311.3	1448.0	1656.8	1748.2	1794.8	1799.4	1805.8	1811.0	1827.2	1852.5	1874.6
35°	1050.7	1319.1	1419.5	1717.0	1725.5	1734.5	1738.4	1750.8	1755.9	1766.3	1785.8
37.5°	950.9	1090.2	1361.8	1485.0	1645.7	1653.5	1674.3	1679.5	1687.9	1696.3	1711.2
40°	893.2	931.4	1133.7	1326.2	1581.6	1586.8	1593.9	1606.9	1607.5	1617.2	1630.8
42.5°	847.2	871.8	930.8	1266.6	1536.2	1535.6	1518.7	1527.1	1531.0	1541.4	1560.2
45°	676.7	818.0	855.6	1034.5	1223.1	1311.3	1480.5	1452.6	1451.9	1455.8	1475.9
47.5°	34.4	769.4	796.0	853.7	1155.1	1158.3	1180.3	1365.7	1394.2	1385.2	1387.1
50°	23.3	53.2	741.5	768.1	995.6	1076.0	1092.2	1100.6	1207.6	1326.8	1307.4
52.5°	18.1	30.5	454.4	713.0	808.9	867.9	972.3	1031.9	1038.4	1086.4	1249.1
55°	16.2	23.3	49.3	657.9	687.7	700.7	761.6	866.0	950.2	975.5	977.5
57.5°	14.3	21.4	33.7	297.5	625.5	628.1	638.5	674.8	750.6	820.0	898.4
60°	13.0	18.8	26.6	51.2	568.5	574.9	576.9	586.6	595.7	643.0	733.1
62.5°	7.8	14.9	23.3	36.9	449.8	516.6	516.0	522.4	530.9	536.1	554.2
65°	6.5	11.7	20.1	31.1	55.1	68.7	417.4	464.1	469.3	476.4	479.7
67.5°	5.8	10.4	14.9	24.6	41.5	47.3	54.4	67.4	368.2	414.8	421.3
70°	5.2	7.1	12.3	20.7	33.7	36.3	40.8	46.7	55.1	68.1	333.2
72.5°	3.2	5.2	8.4	14.9	25.9	29.2	31.8	35.7	39.5	47.3	54.4
75°	1.3	3.9	7.1	11.0	20.1	22.0	24.0	26.6	29.8	35.0	38.9
77.5°	1.3	3.2	5.8	7.8	13.0	14.9	17.5	19.4	22.0	24.6	28.5
80°	4.5	2.6	3.9	5.8	9.1	9.7	11.0	12.3	14.3	16.2	18.8
82.5°	3.2	3.9	4.5	3.9	4.5	5.8	6.5	7.8	8.4	9.7	10.4
85°	2.6	2.6	3.2	3.2	3.2	3.2	3.2	3.2	3.9	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2152.6	2151.3	2147.4	2147.4	2146.8	2149.4	2151.3	2153.3	2152.6	2156.5	2152.6
5°	2168.8	2165.6	2159.8	2154.6	2152.6	2153.9	2152.0	2153.9	2151.3	2154.6	2148.7
7.5°	2213.6	2202.5	2179.9	2170.8	2159.1	2158.5	2152.6	2151.3	2147.4	2147.4	2140.3
10°	2292.6	2239.5	2233.0	2205.8	2196.1	2148.7	2159.1	2141.6	2139.7	2131.2	2128.0
12.5°	2357.5	2316.0	2303.7	2279.7	2252.4	2156.5	2177.9	2140.3	2138.4	2121.5	2104.0
15°	2358.8	2382.7	2349.0	2282.9	2277.1	2211.0	2167.5	2154.6	2137.7	2087.2	2095.6
17.5°	2282.9	2338.0	2354.2	2340.0	2298.5	2253.7	2192.8	2166.9	2116.3	2093.6	2078.1
20°	2159.8	2215.5	2284.9	2289.4	2315.3	2283.6	2203.8	2161.7	2100.8	2061.2	2048.3
22.5°	2061.9	2102.7	2182.4	2219.4	2251.2	2262.2	2211.6	2149.4	2073.5	2035.3	2027.5
25°	2010.0	2019.1	2043.1	2086.5	2156.5	2207.1	2214.2	2148.1	2108.6	2024.9	1980.9
27.5°	1991.2	1983.5	1973.7	1995.8	2048.3	2109.8	2150.7	2161.7	2063.2	1983.5	1939.4
30°	1943.3	1947.8	1932.9	1925.1	1959.5	2023.0	2095.6	2113.7	2037.9	1955.6	1905.0
32.5°	1884.3	1892.1	1894.6	1881.0	1873.9	1918.0	1996.4	2039.8	2036.0	1916.0	1859.6
35°	1810.4	1832.4	1838.3	1838.9	1827.2	1820.1	1865.5	1955.6	1989.9	1897.9	1816.2
37.5°	1732.6	1739.1	1770.8	1779.3	1779.3	1757.9	1791.6	1863.5	1911.5	1857.1	1763.1
40°	1635.4	1656.1	1685.9	1700.8	1715.7	1717.7	1698.9	1749.5	1828.5	1814.9	1713.2
42.5°	1564.7	1578.3	1596.5	1616.6	1647.0	1654.8	1635.4	1644.4	1726.8	1762.4	1648.3
45°	1482.4	1500.6	1505.7	1527.8	1559.5	1582.2	1581.6	1562.8	1628.9	1673.0	1601.0
47.5°	1398.1	1415.6	1424.7	1435.7	1459.1	1488.2	1504.4	1496.0	1509.0	1595.2	1538.1
50°	1311.3	1321.0	1339.2	1351.5	1367.0	1383.9	1422.8	1430.5	1412.4	1481.1	1468.8
52.5°	1229.0	1232.2	1244.5	1256.8	1277.6	1289.9	1321.0	1344.3	1343.0	1363.1	1391.7
55°	1164.8	1150.5	1153.1	1162.8	1176.5	1195.3	1212.8	1249.1	1261.4	1265.3	1310.6
57.5°	910.1	1056.5	1069.5	1068.9	1085.1	1093.5	1109.7	1133.7	1177.8	1168.0	1218.6
60°	827.1	843.3	965.8	980.1	985.9	993.7	1013.1	1035.2	1067.6	1088.3	1110.3
62.5°	630.7	729.2	766.2	874.4	891.3	895.8	908.8	919.1	952.8	1000.2	991.1
65°	488.1	530.2	643.0	687.1	779.1	790.8	808.9	820.0	829.7	884.1	886.7
67.5°	422.0	428.5	458.9	543.8	602.2	692.3	703.3	713.0	727.9	766.8	790.8
70°	360.4	368.2	376.6	383.7	459.6	519.2	602.8	606.1	615.8	641.7	696.2
72.5°	68.1	307.9	313.1	317.6	326.0	365.6	445.3	510.1	514.0	526.3	576.2
75°	46.0	53.8	73.9	254.1	262.5	265.1	278.7	359.7	419.4	422.0	444.0
77.5°	33.1	36.9	44.7	53.2	135.5	203.5	206.8	221.7	283.3	328.0	331.9
80°	22.7	25.3	29.8	33.7	41.5	54.4	150.4	154.9	162.7	224.3	235.9
82.5°	13.0	14.9	17.5	21.4	24.6	31.1	40.2	51.9	105.7	112.8	149.7
85°	6.5	7.1	8.4	10.4	12.3	14.9	20.1	24.6	33.7	60.9	62.9
87.5°	3.2	3.2	3.2	3.2	5.2	5.8	7.1	9.1	11.7	17.5	22.7
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-LD5-39SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2153.3	2162.3	2170.1	2172.1	2172.1	2173.4	2175.3	2176.6	2177.9	2179.2	2177.9
5°	2149.4	2159.1	2165.6	2167.5	2167.5	2171.4	2174.7	2178.6	2180.5	2180.5	2179.2
7.5°	2139.7	2146.8	2155.2	2160.4	2161.1	2167.5	2173.4	2172.7	2175.3	2176.6	2179.9
10°	2126.7	2126.7	2141.0	2144.8	2148.1	2155.2	2157.2	2161.1	2170.1	2171.4	2179.9
12.5°	2120.2	2113.7	2130.6	2132.5	2143.6	2134.5	2146.1	2150.0	2141.0	2153.3	2137.1
15°	2091.0	2098.8	2096.2	2102.1	2121.5	2111.1	2142.9	2132.5	2155.9	2128.0	2177.3
17.5°	2067.1	2065.8	2076.1	2081.3	2085.2	2107.3	2115.7	2127.3	2136.4	2128.6	2148.1
20°	2049.6	2039.2	2047.0	2052.8	2066.4	2083.3	2088.5	2071.0	2101.4	2153.3	2165.6
22.5°	2016.5	2009.4	2018.5	2018.5	2039.2	2036.6	2056.0	2045.0	2073.5	2133.8	2196.7
25°	1971.8	1972.4	1982.2	1993.8	1997.7	2026.9	2037.2	2051.5	2087.2	2159.1	2197.4
27.5°	1926.4	1922.5	1928.4	1952.3	1972.4	1993.8	1997.1	2045.7	2094.3	2143.6	2177.3
30°	1881.0	1877.1	1881.0	1898.5	1922.5	1936.8	1972.4	2037.2	2082.6	2116.3	2148.1
32.5°	1832.4	1828.5	1837.6	1850.6	1892.7	1894.6	1965.3	2026.2	2061.9	2086.5	2080.7
35°	1780.6	1775.4	1783.8	1803.9	1842.8	1857.1	1930.9	1976.3	2016.5	2028.2	2001.0
37.5°	1718.3	1709.3	1719.6	1747.5	1788.3	1829.8	1891.4	1943.9	1965.3	1934.2	1901.8
40°	1653.5	1647.0	1665.2	1679.5	1727.4	1785.1	1855.8	1892.7	1879.1	1843.4	1807.8
42.5°	1595.8	1582.2	1598.4	1625.7	1680.1	1745.6	1802.6	1823.3	1790.9	1738.4	1697.0
45°	1525.2	1509.0	1528.4	1564.7	1623.1	1697.6	1742.3	1735.2	1680.1	1634.7	1577.7
47.5°	1451.3	1431.8	1451.3	1494.7	1560.2	1639.3	1671.7	1639.3	1569.9	1512.9	1466.8
50°	1378.7	1356.0	1374.8	1440.3	1504.4	1565.4	1564.7	1501.8	1460.4	1398.1	1358.0
52.5°	1306.7	1274.3	1293.1	1364.4	1428.6	1498.0	1446.8	1388.4	1338.5	1284.1	1271.1
55°	1217.9	1182.9	1208.2	1311.9	1361.2	1402.0	1320.4	1269.1	1219.9	1192.7	1176.5
57.5°	1133.7	1095.4	1117.5	1240.0	1276.3	1286.6	1211.5	1138.9	1109.7	1100.6	1077.3
60°	1046.8	1003.4	1024.1	1165.4	1190.7	1148.6	1074.7	1018.3	1012.5	994.3	976.2
62.5°	963.9	915.9	928.9	1072.7	1084.4	1007.9	939.9	925.0	910.7	892.6	882.8
65°	868.6	818.7	836.8	974.2	963.2	864.7	826.4	823.2	804.4	789.5	803.8
67.5°	781.1	722.1	747.4	866.6	816.7	736.3	720.8	713.0	698.1	706.5	556.8
70°	685.1	621.0	655.3	750.6	676.7	623.6	617.7	606.1	606.7	482.3	406.4
72.5°	578.2	522.4	572.3	623.6	535.4	519.8	511.4	510.1	411.6	334.5	315.7
75°	484.2	427.8	481.6	501.0	426.5	416.1	415.5	343.5	270.3	258.0	252.1
77.5°	377.9	334.5	385.7	356.5	327.3	315.7	283.3	212.6	203.5	195.1	73.2
80°	254.7	258.0	287.8	245.7	233.3	199.0	156.9	150.4	129.6	51.9	40.8
82.5°	154.9	194.5	183.4	153.6	150.4	108.2	99.2	50.6	37.6	29.8	25.9
85°	80.4	98.5	94.6	83.6	62.2	55.7	31.1	24.0	19.4	14.9	12.3
87.5°	27.2	36.3	35.0	27.9	21.4	16.9	11.0	9.1	6.5	5.2	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2176.6	2176.6	2175.3	2176.6	2177.3	2176.0	2176.0	2177.3	2177.9	2178.6	2181.8
5°	2179.9	2181.1	2183.1	2187.0	2187.6	2195.4	2198.6	2200.6	2202.5	2203.2	2198.6
7.5°	2187.0	2191.5	2195.4	2194.8	2190.2	2177.9	2174.0	2170.8	2176.6	2191.5	2209.0
10°	2193.5	2172.7	2133.8	2187.0	2170.8	2185.7	2229.8	2239.5	2269.3	2311.4	2323.7
12.5°	2148.7	2205.8	2218.1	2158.5	2268.7	2227.8	2276.4	2319.2	2331.5	2374.3	2348.4
15°	2196.7	2224.6	2243.4	2303.0	2296.5	2331.5	2345.1	2336.7	2338.7	2349.7	2378.8
17.5°	2196.1	2251.8	2264.1	2304.3	2331.5	2332.2	2328.3	2324.4	2334.8	2343.2	2325.7
20°	2233.7	2251.8	2275.8	2292.0	2297.2	2303.7	2316.0	2306.2	2286.8	2268.0	2260.2
22.5°	2214.9	2255.7	2276.4	2279.0	2275.8	2255.7	2237.5	2210.3	2201.2	2191.5	2194.8
25°	2218.7	2237.5	2234.9	2224.6	2211.0	2173.4	2164.3	2152.6	2135.1	2093.0	2054.8
27.5°	2190.9	2181.1	2169.5	2144.2	2119.6	2099.5	2076.8	2039.2	2008.1	1962.7	1945.9
30°	2144.2	2105.3	2076.8	2061.9	2037.9	2004.2	1969.8	1923.8	1884.3	1875.2	1866.8
32.5°	2054.8	2016.5	1993.2	1956.9	1916.0	1875.9	1836.3	1818.2	1809.7	1811.0	1803.3
35°	1963.4	1929.7	1894.6	1840.2	1809.7	1769.5	1755.3	1751.4	1743.6	1735.2	1726.1
37.5°	1866.1	1826.6	1774.1	1741.7	1711.2	1695.0	1687.9	1682.0	1668.4	1653.5	1643.2
40°	1772.1	1700.8	1671.7	1639.9	1630.8	1623.7	1613.3	1599.1	1580.3	1577.7	1573.1
42.5°	1646.4	1595.2	1569.9	1563.4	1552.4	1540.1	1531.0	1515.5	1507.7	1512.9	1516.8
45°	1527.1	1501.2	1492.8	1485.0	1464.3	1446.8	1440.9	1435.7	1442.2	1470.7	1402.7
47.5°	1430.5	1420.2	1409.8	1396.8	1377.4	1364.4	1370.3	1375.5	1381.3	1171.9	1069.5
50°	1346.9	1332.7	1316.5	1302.2	1290.5	1289.2	1319.7	1228.3	1028.7	1023.5	919.8
52.5°	1255.5	1234.1	1224.4	1216.0	1221.2	1240.6	1026.7	952.8	913.9	794.0	740.9
55°	1157.0	1138.2	1138.2	1146.0	1118.1	906.2	895.1	773.9	700.7	679.9	671.5
57.5°	1058.5	1056.5	1067.6	976.2	822.5	788.8	663.1	636.5	624.9	622.3	608.6
60°	968.4	986.5	825.8	759.7	660.5	595.7	577.5	574.3	562.0	557.4	545.1
62.5°	896.4	743.5	692.3	565.2	532.2	523.7	514.0	509.5	498.5	440.1	129.0
65°	647.5	611.9	496.5	475.1	472.5	460.2	456.3	410.3	96.6	64.8	55.1
67.5°	488.7	433.6	418.7	414.8	402.5	377.9	112.1	64.2	55.1	48.0	42.1
70°	375.3	365.6	354.6	345.5	101.8	63.5	55.1	46.7	40.2	35.7	32.4
72.5°	307.2	300.8	175.0	66.8	54.4	46.0	40.8	35.7	31.1	28.5	25.9
75°	240.5	66.8	55.1	46.0	39.5	33.7	29.8	26.6	24.0	22.0	20.1
77.5°	54.4	44.1	37.6	31.8	28.5	25.3	22.7	19.4	17.5	15.6	13.0
80°	33.7	29.2	24.6	22.7	19.4	16.2	14.3	13.0	10.4	9.7	8.4
82.5°	22.0	17.5	15.6	13.0	10.4	9.7	8.4	6.5	5.8	5.2	4.5
85°	9.7	8.4	7.1	5.8	4.5	3.9	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2183.1	2194.8	2205.8	2202.5	2190.9	2172.7	2167.5	2160.4	2165.6	2176.6	2181.1
5°	2198.6	2192.2	2215.5	2249.9	2305.6	2310.8	2349.7	2358.8	2389.9	2409.3	2408.7
7.5°	2220.7	2312.7	2351.0	2392.5	2411.3	2406.7	2412.5	2408.0	2400.9	2397.6	2393.8
10°	2332.8	2402.8	2417.1	2417.1	2387.9	2348.4	2331.5	2302.4	2244.0	2245.3	2235.6
12.5°	2398.3	2422.9	2389.2	2360.7	2243.4	2198.0	2148.7	2125.4	2111.8	2091.0	2098.8
15°	2363.9	2328.9	2308.8	2216.8	2144.8	2063.2	2064.5	2050.2	2035.3	2036.6	2026.9
17.5°	2313.4	2285.5	2142.9	2079.4	2044.4	2012.6	2006.8	1988.0	1978.3	1975.0	1974.4
20°	2244.0	2143.6	2037.2	2021.7	1979.6	1943.3	1937.4	1943.3	1973.1	1919.9	1739.7
22.5°	2163.0	2018.5	1987.3	1943.3	1914.7	1900.5	1936.1	1774.1	1529.1	1558.9	1527.1
25°	2025.6	1962.7	1909.6	1875.9	1872.6	1785.1	1487.6	1456.5	1299.0	1214.7	1120.1
27.5°	1925.1	1897.9	1842.1	1836.3	1794.2	1459.7	1304.8	1133.7	1070.8	1061.1	1040.3
30°	1864.2	1825.3	1791.6	1644.4	1431.8	1175.2	1046.8	1022.8	1011.8	1000.2	982.0
32.5°	1790.9	1754.0	1770.2	1382.6	1141.5	1011.8	985.9	968.4	948.3	940.5	875.1
35°	1716.4	1699.5	1383.2	1162.2	981.4	950.2	930.8	912.6	726.0	175.7	59.6
37.5°	1636.7	1632.8	1243.2	964.5	919.1	890.0	834.9	172.4	40.8	27.9	20.7
40°	1574.4	1243.9	982.7	904.2	867.3	821.3	115.4	28.5	18.1	11.0	7.1
42.5°	1533.0	1118.8	879.6	848.5	768.1	84.9	29.2	12.3	7.1	5.8	4.5
45°	1181.6	883.5	821.9	789.5	97.2	29.2	16.9	5.8	4.5	3.9	2.6
47.5°	1090.2	802.5	766.2	172.4	32.4	15.6	11.7	3.9	2.6	2.6	2.6
50°	825.8	741.5	609.9	42.1	20.7	11.0	8.4	2.6	2.6	2.6	1.9
52.5°	724.0	684.5	65.5	27.9	16.2	8.4	5.2	1.9	1.9	1.9	1.9
55°	661.8	434.3	38.9	21.4	13.6	7.8	3.2	1.9	1.9	1.9	1.3
57.5°	605.4	58.3	28.5	18.1	12.3	7.1	1.9	1.9	1.9	1.9	1.3
60°	513.4	42.1	23.3	16.2	11.7	6.5	1.9	1.9	1.9	1.9	1.9
62.5°	66.8	33.1	20.1	14.3	8.4	5.2	1.3	1.9	1.9	1.9	1.9
65°	48.6	25.9	18.1	9.7	5.2	1.9	1.3	1.9	1.9	1.9	1.9
67.5°	37.6	21.4	13.6	8.4	4.5	1.3	1.3	1.9	1.9	1.9	1.9
70°	29.8	18.1	11.0	7.1	3.9	1.3	1.3	1.9	1.9	1.9	1.9
72.5°	23.3	13.0	7.8	3.9	2.6	1.3	1.3	1.9	1.9	1.9	1.9
75°	17.5	10.4	5.8	3.2	1.3	1.3	1.3	1.9	1.9	1.9	1.9
77.5°	11.7	6.5	4.5	2.6	2.6	2.6	3.2	3.2	1.9	1.9	1.9
80°	7.8	4.5	3.2	3.2	3.2	2.6	3.2	3.2	1.9	3.2	1.9
82.5°	3.9	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2175.3	2177.3	2172.1	2199.9	2185.7	2187.0	2192.8	2177.9	2181.1	2170.8	2163.6
5°	2411.3	2415.1	2419.0	2420.3	2422.9	2426.2	2422.3	2420.3	2416.4	2403.5	2389.9
7.5°	2374.3	2369.8	2367.8	2370.4	2375.0	2376.9	2373.7	2378.2	2395.0	2402.2	2406.7
10°	2179.9	2159.1	2173.4	2171.4	2155.2	2209.7	2194.8	2203.2	2209.0	2268.7	2305.0
12.5°	2087.2	2100.1	2075.5	2063.2	2079.4	2090.4	2101.4	2078.1	2110.5	2095.6	2143.6
15°	2009.4	2001.6	1999.0	1999.7	1996.4	2012.0	2015.9	2021.0	2025.6	2045.7	2053.5
17.5°	1974.4	1987.3	1992.5	1996.4	1989.9	1982.8	1975.7	1965.3	1968.5	1963.4	1978.3
20°	1618.5	1575.1	1572.5	1597.8	1569.9	1585.5	1623.1	1874.6	1866.1	1964.0	1930.9
22.5°	1350.8	1310.0	1275.0	1244.5	1287.9	1306.1	1376.1	1455.2	1583.5	1563.4	1702.8
25°	1103.2	1088.3	1079.2	1074.7	1077.9	1076.6	1092.2	1129.1	1187.5	1324.9	1502.5
27.5°	1031.9	1024.8	1021.5	1011.2	1018.9	1016.4	1028.7	1036.4	1054.0	1067.6	1125.3
30°	975.5	967.1	961.3	950.2	958.0	958.7	962.6	982.7	989.8	1001.4	1019.6
32.5°	356.5	210.0	197.0	187.3	204.8	267.1	468.6	819.3	934.7	943.8	964.5
35°	35.0	29.2	25.9	25.9	26.6	29.2	38.9	102.4	187.3	724.0	906.2
37.5°	13.6	11.7	9.7	9.1	9.7	11.0	14.9	19.4	26.6	55.1	245.7
40°	5.8	5.2	4.5	4.5	4.5	4.5	5.2	6.5	9.7	18.1	28.5
42.5°	3.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.5	5.8	11.7
45°	2.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.2	5.2
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	3.9	3.9	2.6
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.2	3.9	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2151.3	2150.7	2164.3	2174.7	2170.8	2174.7	2179.2	2179.9	2181.1	2176.0	2174.0
5°	2363.9	2343.8	2305.0	2277.1	2244.7	2185.7	2156.5	2159.8	2160.4	2158.5	2161.1
7.5°	2404.8	2402.8	2389.2	2383.4	2361.3	2319.2	2251.8	2240.1	2211.6	2193.5	2178.6
10°	2302.4	2349.0	2361.3	2382.1	2395.0	2387.3	2330.2	2321.8	2303.7	2282.9	2287.4
12.5°	2191.5	2229.8	2231.7	2344.5	2369.8	2372.4	2350.3	2362.0	2364.6	2317.9	2290.7
15°	2055.4	2073.5	2111.8	2216.8	2293.3	2341.2	2355.5	2362.0	2330.2	2328.3	2317.3
17.5°	1995.8	2007.4	2024.9	2083.9	2199.9	2270.6	2330.9	2326.3	2338.7	2329.6	2301.7
20°	1920.6	1930.3	1961.4	1991.2	2048.3	2142.3	2255.0	2263.5	2279.7	2277.7	2285.5
22.5°	1919.3	1884.9	1890.1	1913.4	1973.1	2057.3	2177.3	2205.1	2215.5	2222.6	2231.1
25°	1522.6	1795.5	1845.4	1860.3	1899.2	1948.4	2089.8	2100.1	2119.6	2151.3	2174.7
27.5°	1319.1	1504.4	1704.1	1807.8	1832.4	1873.3	1957.5	1973.1	2039.2	2047.0	2083.3
30°	1041.0	1184.2	1482.4	1732.0	1772.8	1801.3	1860.9	1892.1	1920.6	1951.7	1989.9
32.5°	979.4	1002.1	1167.4	1433.1	1750.8	1729.4	1773.4	1792.2	1823.3	1850.6	1878.4
35°	923.0	938.6	973.6	1173.9	1426.0	1670.4	1700.2	1712.5	1730.0	1750.8	1770.8
37.5°	864.0	887.4	911.4	965.1	1319.1	1623.7	1623.1	1637.3	1647.7	1665.2	1682.0
40°	156.9	814.8	853.7	888.7	1022.8	1295.1	1550.5	1556.9	1564.1	1575.1	1592.6
42.5°	25.3	136.1	799.9	833.6	871.8	1159.6	1517.4	1490.8	1486.3	1494.1	1509.6
45°	13.0	33.1	160.8	778.5	812.8	925.0	1240.6	1444.8	1440.3	1425.4	1428.6
47.5°	9.7	20.7	39.5	269.0	761.0	794.0	1144.7	1132.4	1218.6	1383.9	1358.6
50°	8.4	14.3	23.3	55.1	672.2	731.2	881.5	1030.0	1075.3	1081.2	1279.5
52.5°	7.8	9.7	16.9	35.7	141.3	676.1	716.9	768.7	845.2	1009.2	1005.3
55°	7.1	9.1	14.3	24.0	49.3	609.3	651.4	661.2	677.4	755.8	859.5
57.5°	3.9	8.4	13.6	20.7	36.9	111.5	591.1	598.9	611.9	615.1	652.1
60°	1.9	7.8	12.3	18.1	27.2	51.9	531.5	540.6	548.4	549.7	561.3
62.5°	1.3	7.1	10.4	16.9	22.7	36.9	125.7	256.7	488.1	488.1	501.7
65°	1.3	5.2	6.5	11.0	20.7	30.5	53.2	61.6	119.9	294.9	440.1
67.5°	1.3	1.9	5.8	9.1	15.6	23.3	38.9	45.4	54.4	62.2	115.4
70°	1.3	1.3	5.2	5.8	9.7	17.5	27.9	31.8	36.9	42.1	48.6
72.5°	1.3	1.3	4.5	4.5	6.5	11.7	21.4	23.3	26.6	29.8	34.4
75°	3.2	2.6	3.9	3.9	4.5	9.1	16.2	18.1	19.4	22.0	25.3
77.5°	3.2	3.2	3.2	3.2	3.2	5.8	10.4	11.7	13.6	14.9	17.5
80°	2.6	2.6	2.6	3.2	3.2	3.9	6.5	7.1	7.8	9.7	10.4
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	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: P#

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2173.4	2169.5	2166.2	2168.2	2162.3	2159.8	2161.7	2162.3	2163.6	2166.9	2167.5
5°	2167.5	2166.2	2172.1	2175.3	2174.0	2175.3	2175.3	2172.7	2168.8	2171.4	2165.6
7.5°	2163.6	2155.2	2148.7	2150.0	2143.6	2151.3	2158.5	2168.8	2172.1	2172.1	2165.6
10°	2230.4	2221.3	2185.0	2160.4	2144.2	2129.9	2163.6	2129.3	2145.5	2083.9	2154.6
12.5°	2285.5	2297.8	2281.6	2214.2	2202.5	2159.8	2184.4	2142.3	2129.9	2059.3	2082.0
15°	2307.5	2284.2	2279.0	2260.2	2234.9	2222.6	2156.5	2149.4	2129.3	2137.1	2107.3
17.5°	2288.1	2299.8	2284.2	2271.9	2246.0	2216.8	2177.3	2142.3	2114.4	2052.2	2104.7
20°	2269.3	2284.9	2238.2	2246.0	2248.6	2214.9	2194.1	2164.9	2129.9	2071.6	2026.2
22.5°	2238.2	2227.2	2231.1	2219.4	2209.7	2214.2	2185.7	2165.6	2106.6	2080.0	2018.5
25°	2187.6	2183.7	2194.1	2192.8	2169.5	2161.7	2147.4	2126.1	2102.7	2059.9	2009.4
27.5°	2105.3	2125.4	2143.6	2152.0	2139.7	2118.9	2111.1	2098.8	2082.6	2039.2	2001.6
30°	2018.5	2041.1	2061.9	2080.0	2091.0	2082.0	2074.8	2067.7	2043.1	2014.6	1972.4
32.5°	1919.3	1949.1	1977.6	1999.7	2023.6	2030.8	2025.6	2019.7	1999.0	1973.1	1939.4
35°	1804.6	1845.4	1886.9	1926.4	1936.8	1953.6	1970.5	1960.8	1949.7	1923.8	1892.7
37.5°	1707.3	1736.5	1766.3	1816.2	1852.5	1873.9	1903.7	1907.6	1888.8	1876.5	1835.7
40°	1606.9	1633.4	1676.9	1706.0	1755.9	1780.6	1812.3	1826.6	1822.1	1814.9	1779.3
42.5°	1527.8	1540.7	1569.3	1595.2	1644.4	1695.0	1722.9	1738.4	1754.6	1748.8	1730.7
45°	1443.5	1455.2	1464.9	1487.6	1535.6	1580.3	1614.6	1638.0	1667.1	1680.7	1658.7
47.5°	1359.9	1363.1	1374.8	1393.6	1422.1	1456.5	1514.2	1549.2	1576.4	1603.0	1588.7
50°	1295.7	1284.1	1286.0	1297.7	1321.0	1354.7	1396.2	1445.5	1476.6	1509.0	1512.2
52.5°	1132.4	1227.0	1204.3	1210.8	1223.1	1239.3	1282.8	1331.4	1369.6	1397.5	1425.4
55°	950.2	969.0	1151.2	1125.3	1133.0	1147.3	1167.4	1216.0	1252.9	1291.8	1330.7
57.5°	737.0	877.0	884.1	1052.7	1048.8	1050.1	1066.9	1094.8	1131.7	1180.3	1213.4
60°	573.0	632.0	746.7	805.0	952.8	958.0	967.7	983.9	1015.7	1061.7	1114.2
62.5°	505.6	513.4	554.2	641.7	737.6	853.7	874.4	877.0	891.3	937.3	998.2
65°	444.0	449.2	461.5	470.6	551.0	663.1	762.9	779.1	788.2	815.4	867.3
67.5°	305.9	387.0	398.0	404.5	412.2	464.1	587.9	670.2	680.6	704.6	750.0
70°	59.0	122.5	335.1	342.2	346.1	357.8	377.9	508.8	577.5	600.2	621.0
72.5°	40.2	47.3	57.0	134.8	285.2	291.7	296.2	313.1	429.1	495.2	506.2
75°	29.2	32.4	38.2	47.3	58.3	189.9	235.3	243.7	252.1	348.1	403.8
77.5°	20.7	23.3	25.9	30.5	35.7	46.0	66.1	182.1	190.6	195.1	275.5
80°	11.7	14.3	17.5	20.1	22.7	25.9	33.7	42.1	94.0	137.4	144.5
82.5°	6.5	7.8	9.1	11.0	12.3	15.6	18.8	22.7	29.8	44.1	93.3
85°	3.2	3.2	3.2	4.5	5.2	7.1	8.4	9.7	13.6	18.8	25.9
87.5°	1.9	1.9	2.6	2.6	2.6	3.2	3.2	3.2	3.9	5.8	8.4
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-LD5-39SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2168.2	2166.2	2166.2	2174.0	2172.1
5°	2164.3	2162.3	2161.7	2170.1	2166.2
7.5°	2161.1	2153.9	2152.0	2159.8	2156.5
10°	2148.1	2142.9	2146.1	2143.6	2142.3
12.5°	2126.1	2122.8	2109.2	2110.5	2121.5
15°	2086.5	2099.5	2076.1	2096.9	2101.4
17.5°	2013.9	2043.1	2065.8	2078.1	2080.0
20°	2046.3	2056.0	2044.4	2045.0	2052.8
22.5°	2004.2	2008.7	2012.0	2008.1	2024.9
25°	1936.8	1919.3	1956.9	1964.7	1991.9
27.5°	1916.0	1901.8	1919.3	1918.0	1940.7
30°	1899.2	1853.2	1860.9	1873.3	1901.1
32.5°	1875.2	1802.6	1794.8	1822.1	1853.2
35°	1833.1	1764.4	1746.2	1763.7	1810.4
37.5°	1797.4	1711.2	1674.9	1698.2	1759.2
40°	1744.3	1669.7	1613.3	1634.1	1706.0
42.5°	1680.7	1634.1	1547.2	1561.5	1643.8
45°	1616.6	1575.1	1483.1	1490.2	1588.1
47.5°	1551.1	1512.9	1416.3	1417.6	1516.8
50°	1486.9	1436.4	1356.7	1334.0	1440.9
52.5°	1403.3	1356.7	1296.4	1259.4	1369.0
55°	1324.2	1271.7	1227.7	1170.6	1287.3
57.5°	1247.1	1188.8	1159.0	1085.7	1194.6
60°	1141.5	1113.6	1069.5	999.5	1111.0
62.5°	1033.2	1024.1	979.4	906.8	1007.9
65°	906.8	928.2	882.2	820.0	901.0
67.5°	787.5	825.8	775.2	737.0	797.9
70°	660.5	704.6	676.1	662.4	688.4
72.5°	535.4	578.2	580.8	571.1	579.5
75°	413.5	460.9	486.8	471.9	473.8
77.5°	313.7	336.4	364.9	376.6	374.0
80°	193.8	233.3	256.7	280.7	272.2
82.5°	97.9	130.9	159.5	185.4	173.1
85°	40.8	52.5	73.2	96.6	92.7
87.5°	12.3	20.7	22.0	31.1	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)