

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: P1213414

Luminaire Tested: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213414
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-LD5-39SL-RM-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

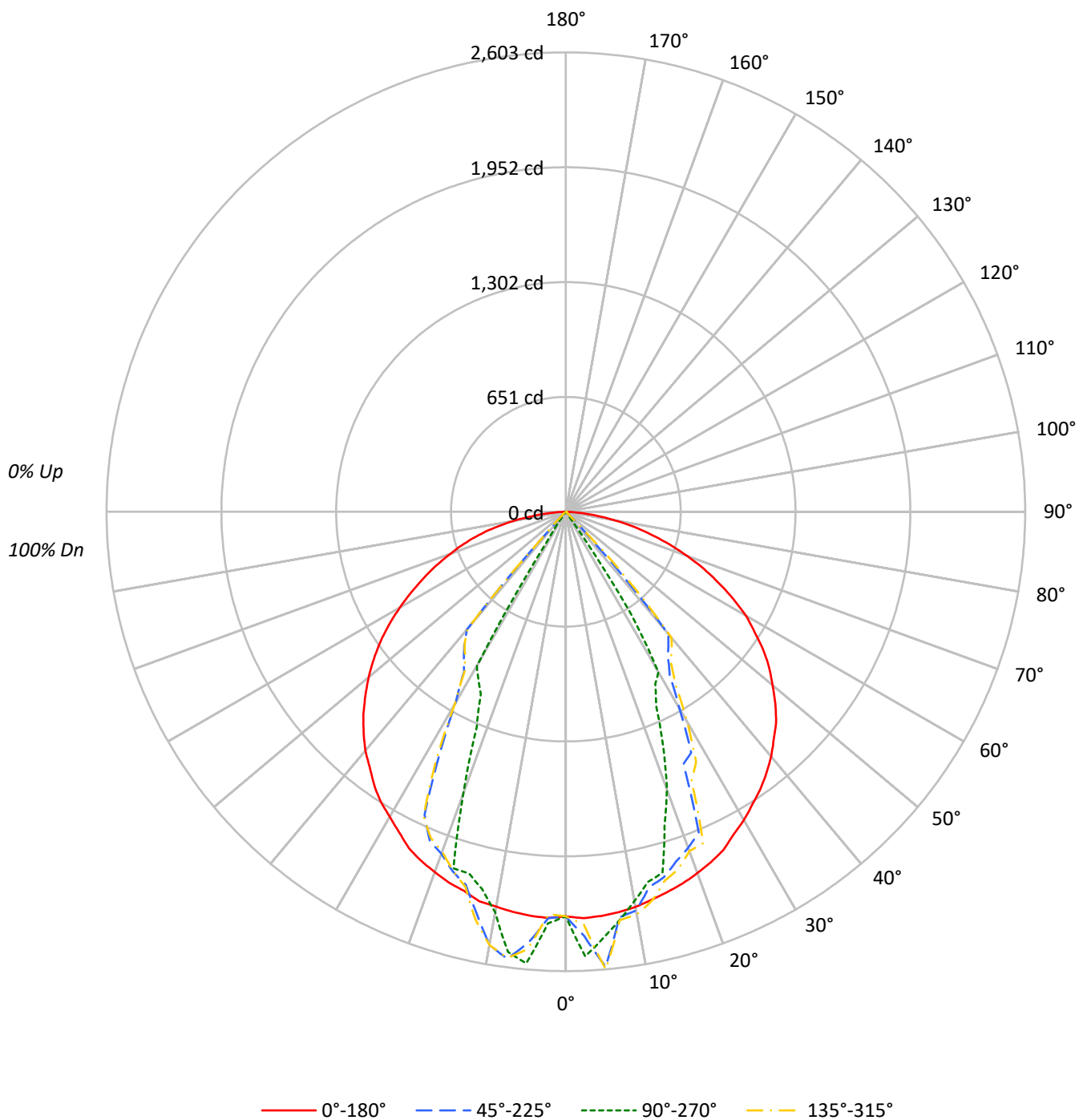
Lumens per Lamp: N/A
Luminaire Lumens: 3259.1 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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: 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	18522	18522	18522	18522
5°	18598	19049	18592	20173
10°	18553	17237	18541	17735
15°	18502	16089	18457	16131
20°	18524	12673	18471	12829
25°	18577	9171	18486	8654
30°	18492	8045	18297	7734
35°	18547	177	18275	215
40°	18611	39	18165	39
45°	18676	23	17975	17
50°	18533	18	17684	18
55°	18424	13	17293	13
60°	18077	14	16663	14
65°	17134	22	15913	15
70°	15895	24	15131	24
75°	14059	27	14291	27
80°	11420	31	12073	31
85°	6722	37	6859	37

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 20166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	7.1
10°-20°	627.2	19.2
20°-30°	798.1	24.5
30°-40°	674.2	20.7
40°-50°	440.8	13.5
50°-60°	277.7	8.5
60°-70°	147.9	4.5
70°-80°	53.9	1.7
80°-90°	9.3	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°	1655.3	50.8
0°-40°	2329.5	71.5
0°-60°	3048.0	93.5
0°-90°	3259.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2292	2292	2292	2292	2292	
5°	2299	2425	2298	2568	2299	219
15°	2230	2117	2225	2122	2230	630
25°	2114	1209	2104	1140	2114	972
35°	1921	23	1893	28	1921	1202
45°	1685	3	1622	2	1685	1296
55°	1366	1	1282	1	1366	1217
65°	956	2	888	1	956	947
75°	503	2	511	2	503	534
85°	98	2	100	2	98	124
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°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2305.0	2306.4	2307.1	2308.5	2310.5	2311.2	2312.6	2311.2	2311.2	2311.2	2311.2
5°	2298.9	2301.6	2303.7	2306.4	2311.2	2311.9	2317.4	2318.1	2320.9	2326.4	2330.5
7.5°	2288.5	2291.3	2295.4	2302.3	2309.2	2316.7	2326.4	2336.7	2351.1	2364.9	2382.1
10°	2273.4	2276.8	2281.7	2287.8	2321.6	2326.4	2347.7	2377.3	2385.5	2428.9	2461.2
12.5°	2251.4	2263.1	2275.5	2281.0	2313.3	2364.2	2435.7	2421.3	2405.5	2547.2	2545.1
15°	2230.1	2245.9	2239.7	2284.4	2314.0	2402.7	2372.5	2437.1	2555.4	2526.5	2527.9
17.5°	2207.4	2210.8	2245.2	2282.3	2335.3	2380.7	2417.9	2506.6	2530.0	2532.0	2506.6
20°	2178.5	2195.0	2245.2	2278.9	2368.3	2389.6	2470.1	2515.5	2505.9	2482.5	2439.2
22.5°	2148.9	2199.1	2250.0	2297.5	2360.1	2417.2	2457.1	2478.4	2428.2	2336.0	2286.5
25°	2113.8	2143.4	2210.1	2279.6	2358.0	2391.0	2414.4	2380.0	2314.7	2232.1	2148.9
27.5°	2059.5	2106.9	2192.2	2270.6	2341.5	2381.4	2343.6	2261.0	2155.8	2101.4	2063.6
30°	2017.5	2079.4	2149.6	2225.2	2298.9	2322.2	2225.9	2131.7	2059.5	2005.1	1996.9
32.5°	1966.6	2054.7	2121.4	2193.6	2255.5	2224.6	2131.0	2009.3	1949.4	1928.8	1937.0
35°	1921.2	1987.9	2075.3	2146.1	2190.9	2121.4	1973.5	1897.8	1868.9	1880.6	1865.5
37.5°	1866.9	1954.9	2035.4	2096.6	2081.5	1976.9	1851.7	1803.6	1807.0	1797.4	1768.5
40°	1810.5	1894.4	1978.3	2036.1	1983.1	1823.5	1740.3	1730.0	1732.0	1701.1	1659.8
42.5°	1744.4	1820.8	1904.7	1957.0	1842.8	1718.3	1661.9	1663.3	1645.4	1602.0	1580.0
45°	1685.3	1755.4	1842.8	1847.6	1707.3	1603.4	1586.9	1569.0	1529.1	1514.7	1498.2
47.5°	1609.6	1687.3	1759.6	1733.4	1574.5	1509.9	1497.5	1458.3	1438.3	1427.3	1413.6
50°	1529.1	1607.5	1673.6	1599.3	1449.3	1434.2	1393.6	1362.7	1348.9	1337.2	1324.8
52.5°	1452.8	1517.4	1584.8	1456.9	1353.0	1338.6	1292.5	1274.6	1260.9	1247.8	1245.0
55°	1366.1	1423.2	1469.3	1321.4	1260.9	1227.2	1194.1	1181.8	1168.7	1162.5	1172.8
57.5°	1267.7	1332.4	1325.5	1187.9	1161.1	1112.3	1099.9	1091.6	1082.0	1086.1	1000.2
60°	1179.0	1228.5	1194.8	1090.3	1044.9	1011.9	1000.8	995.3	1000.8	916.9	806.2
62.5°	1069.6	1125.4	1057.3	976.1	927.9	912.1	902.5	910.0	829.6	737.4	710.6
65°	956.1	1016.7	916.2	853.6	823.4	809.6	808.9	745.0	665.9	630.1	630.1
67.5°	846.8	909.4	780.0	727.8	716.1	717.4	677.5	580.6	558.5	534.5	465.0
70°	730.5	785.5	644.5	612.9	606.0	601.2	504.2	478.1	451.9	388.0	382.5
72.5°	615.0	641.8	518.0	510.4	509.0	423.0	403.8	359.1	328.8	321.2	317.8
75°	502.8	494.6	409.3	416.2	350.8	320.5	289.6	263.5	259.3	256.6	64.0
77.5°	396.9	355.6	322.6	280.6	251.1	213.2	207.0	202.9	133.4	48.2	39.2
80°	288.9	230.4	214.6	182.3	155.5	149.3	152.7	46.8	37.1	31.0	26.8
82.5°	183.7	147.2	120.4	105.2	102.5	44.7	33.0	26.8	23.4	19.9	16.5
85°	98.4	65.3	60.5	50.9	30.3	20.6	17.2	13.1	11.0	8.9	8.3
87.5°	31.0	26.1	21.3	17.2	10.3	6.9	5.5	4.8	4.1	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2309.9	2311.2	2310.5	2312.6	2312.6	2315.4	2317.4	2319.5	2323.6	2325.7	2341.5
5°	2339.4	2342.9	2353.2	2362.8	2374.5	2378.0	2397.9	2402.7	2426.1	2428.9	2505.9
7.5°	2405.5	2418.5	2443.3	2468.1	2492.8	2508.7	2536.2	2553.4	2571.9	2588.4	2649.7
10°	2485.3	2507.3	2531.4	2556.1	2570.6	2600.8	2617.3	2620.1	2615.3	2588.4	2489.4
12.5°	2563.7	2585.7	2575.4	2580.2	2597.4	2543.7	2551.3	2512.8	2539.6	2406.8	2308.5
15°	2552.7	2551.3	2525.8	2443.3	2457.1	2354.6	2313.3	2281.7	2307.1	2293.3	2278.2
17.5°	2519.7	2457.1	2413.0	2314.0	2272.0	2243.1	2243.8	2244.5	2232.1	2245.2	2206.7
20°	2380.0	2309.9	2244.5	2209.4	2197.0	2176.4	2186.7	2176.4	2177.1	2181.2	2122.1
22.5°	2194.3	2173.0	2135.1	2146.1	2142.0	2160.6	2146.8	2125.5	2132.4	2101.4	2056.7
25°	2119.3	2094.6	2093.2	2097.3	2091.1	2082.9	2070.5	2038.1	2036.1	2026.5	2005.8
27.5°	2043.7	2045.0	2049.2	2036.8	2014.8	1998.3	1979.7	1963.9	1970.1	1959.0	1930.8
30°	1991.4	1990.7	1965.9	1954.9	1914.3	1915.0	1910.2	1900.6	1894.4	1895.1	1877.2
32.5°	1917.1	1895.8	1867.6	1853.8	1850.4	1838.0	1828.4	1830.4	1835.2	1818.0	1836.6
35°	1840.7	1796.7	1792.6	1780.9	1769.9	1761.6	1765.1	1751.3	1750.6	1748.6	1597.2
37.5°	1738.2	1716.9	1714.9	1702.5	1694.9	1692.8	1679.8	1681.8	1688.0	1699.0	1362.0
40°	1653.6	1634.4	1629.6	1628.9	1612.4	1611.0	1614.4	1627.5	1636.4	1567.6	1298.0
42.5°	1562.8	1564.2	1549.1	1539.4	1541.5	1547.7	1564.2	1518.8	1315.9	1254.0	1186.6
45°	1485.1	1478.2	1470.0	1467.2	1485.1	1472.7	1291.1	1191.4	1167.3	1164.6	975.4
47.5°	1403.9	1401.9	1398.4	1400.5	1298.7	1157.7	1116.4	1103.3	1107.5	1104.7	837.8
50°	1322.1	1324.8	1324.8	1157.0	1062.1	1038.7	1042.1	1053.8	980.9	915.6	780.7
52.5°	1251.2	1229.9	1053.8	993.3	972.0	982.3	957.5	866.0	800.0	761.5	722.3
55°	1119.8	963.0	923.8	914.2	921.7	830.3	773.9	714.7	697.5	693.4	670.7
57.5°	881.2	849.5	853.0	814.4	727.1	675.5	652.8	644.5	637.0	631.5	55.0
60°	779.4	788.3	721.6	639.0	603.9	597.1	591.6	584.0	582.6	573.0	35.1
62.5°	713.3	627.3	569.6	548.9	540.7	538.6	528.3	524.8	445.7	61.2	26.1
65°	537.9	502.8	491.8	487.0	478.1	478.1	396.9	62.6	50.9	44.0	23.4
67.5°	438.9	436.1	430.6	424.4	288.9	60.5	53.0	46.1	39.9	35.1	20.6
70°	371.4	370.1	337.1	61.9	51.6	45.4	39.9	35.8	33.0	29.6	18.6
72.5°	304.7	61.9	52.3	45.4	39.2	35.8	32.3	28.9	26.1	24.1	15.1
75°	47.5	42.0	37.1	33.7	31.0	27.5	24.8	22.7	22.0	19.3	10.3
77.5°	34.4	29.6	26.8	24.1	21.3	19.3	16.5	14.4	13.1	11.0	7.6
80°	24.1	21.3	19.3	15.8	13.8	11.7	10.3	8.9	8.3	6.9	3.4
82.5°	13.8	11.7	10.3	8.3	7.6	6.2	5.5	4.8	4.8	3.4	3.4
85°	6.2	6.2	4.8	4.1	3.4	3.4	3.4	2.8	2.8	2.1	2.1
87.5°	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.1	2.1	2.1	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2363.5	2372.5	2389.6	2407.5	2387.6	2459.1	2453.6	2477.7	2490.8	2497.0	2511.4
5°	2574.0	2613.9	2627.0	2587.8	2565.1	2541.7	2488.7	2448.8	2453.6	2440.6	2393.1
7.5°	2569.9	2484.6	2369.7	2317.4	2313.3	2307.1	2323.6	2333.2	2334.6	2333.9	2332.6
10°	2352.5	2308.5	2300.9	2294.0	2296.8	2271.3	2259.6	2226.6	2244.5	2234.9	2238.3
12.5°	2286.5	2276.2	2235.6	2179.2	2212.9	2187.4	2173.0	2182.6	2171.6	2161.3	2157.8
15°	2247.3	2180.5	2157.8	2144.1	2134.5	2128.9	2133.8	2122.8	2119.3	2117.3	2122.1
17.5°	2166.1	2139.3	2114.5	2078.0	2078.7	2076.7	2090.4	2111.1	2112.4	2006.5	1910.9
20°	2102.1	2080.1	2048.5	2025.8	2056.7	2001.7	1789.1	1688.0	1672.2	1672.2	1675.0
22.5°	2051.2	2002.4	2004.4	1968.7	1679.1	1619.9	1621.3	1627.5	1599.3	1503.0	1492.7
25°	1981.7	1974.2	1823.5	1575.9	1578.0	1531.9	1461.0	1361.3	1253.3	1253.3	1235.4
27.5°	1929.5	1769.2	1549.1	1538.8	1384.0	1286.3	1225.8	1134.3	1121.9	1110.2	1111.6
30°	1884.8	1496.8	1502.3	1286.3	1172.1	1091.0	1086.1	1071.0	1063.4	1061.4	1053.8
32.5°	1489.9	1457.6	1257.4	1095.1	1050.4	1037.3	1031.1	1013.9	1013.2	1000.2	909.4
35°	1397.1	1279.4	1052.4	1008.4	995.3	983.0	972.6	652.8	77.0	31.0	26.8
37.5°	1291.1	1068.9	973.3	953.4	941.0	695.4	69.5	24.1	17.2	12.4	11.0
40°	1094.4	954.8	924.5	902.5	372.1	24.1	15.1	11.7	6.9	6.2	5.5
42.5°	923.1	899.7	867.4	264.1	27.5	11.7	7.6	5.5	4.8	4.8	4.1
45°	864.0	843.3	349.4	26.1	17.2	5.5	4.8	4.8	4.1	2.8	2.8
47.5°	808.9	711.9	31.6	16.5	11.0	4.8	4.1	2.8	2.8	2.8	2.1
50°	750.5	39.2	22.0	12.4	6.9	2.8	2.8	2.8	2.8	2.1	2.1
52.5°	140.3	27.5	17.9	11.0	3.4	2.8	2.8	2.8	2.1	2.1	2.1
55°	33.0	22.0	16.5	9.6	2.8	2.8	2.8	2.1	2.1	2.1	1.4
57.5°	24.8	16.5	13.1	8.9	2.8	2.1	2.1	2.1	2.1	2.1	1.4
60°	20.6	11.7	10.3	8.3	2.1	2.1	2.1	2.1	2.1	2.1	1.4
62.5°	14.4	9.6	7.6	6.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
65°	11.7	7.6	6.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
67.5°	10.3	6.2	4.1	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
70°	8.3	2.1	2.1	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	6.9	2.1	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	6.9	3.4	1.4	1.4	2.1	2.1	2.8	2.8	2.1	2.1	2.1
77.5°	4.8	3.4	1.4	1.4	2.1	2.1	2.8	2.8	2.1	2.1	2.1
80°	2.8	3.4	1.4	2.1	2.1	4.1	4.8	2.8	2.1	2.1	2.1
82.5°	2.8	3.4	4.1	4.1	2.1	3.4	4.1	3.4	2.8	2.1	2.1
85°	2.8	2.1	2.8	3.4	2.1	3.4	3.4	2.8	2.8	2.1	2.1
87.5°	1.4	2.1	2.1	2.8	2.8	2.8	3.4	2.8	2.8	2.8	2.1
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: P1213414

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2518.3	2521.0	2477.7	2462.6	2475.6	2472.9	2461.2	2417.9	2413.0	2384.1	2342.2
5°	2406.8	2425.4	2402.7	2441.9	2423.4	2441.9	2498.3	2524.5	2567.1	2593.3	2602.9
7.5°	2329.1	2333.2	2333.2	2336.7	2340.1	2340.8	2336.7	2333.9	2322.2	2307.8	2333.9
10°	2234.9	2239.7	2247.9	2246.6	2245.9	2260.3	2263.8	2293.3	2292.0	2297.5	2317.4
12.5°	2186.0	2148.9	2182.6	2173.7	2186.0	2166.8	2202.5	2196.4	2198.4	2214.9	2257.6
15°	2104.9	2116.6	2124.8	2124.8	2129.6	2125.5	2121.4	2149.6	2166.8	2167.5	2164.7
17.5°	1948.7	1860.0	1950.8	1927.4	2113.8	2118.6	2102.8	2089.7	2089.7	2100.1	2122.1
20°	1672.9	1675.0	1675.6	1684.6	1695.6	1694.9	1695.6	1966.6	2095.2	2065.7	2045.7
22.5°	1466.5	1441.1	1488.5	1485.1	1544.3	1609.6	1672.2	1666.0	1670.1	1861.4	2033.3
25°	1175.6	1208.6	1181.8	1193.4	1260.2	1337.9	1386.1	1511.9	1648.8	1639.2	1683.9
27.5°	1106.8	1097.8	1110.2	1110.2	1119.2	1129.5	1156.3	1227.2	1348.9	1476.9	1597.9
30°	1041.4	1049.0	1050.4	1062.8	1069.6	1076.5	1080.6	1107.5	1135.0	1223.7	1373.0
32.5°	782.1	685.8	902.5	961.0	1010.5	1022.2	1030.4	1041.4	1061.4	1074.4	1149.4
35°	22.7	22.7	24.1	27.5	35.1	236.6	901.1	993.3	1006.3	1022.9	1036.6
37.5°	11.0	8.3	9.6	10.3	12.4	17.2	24.8	77.0	857.8	969.9	985.0
40°	4.8	4.8	4.8	4.8	5.5	6.9	10.3	17.2	26.1	689.9	930.7
42.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.8	6.2	12.4	29.6	488.4
45°	2.8	2.8	2.1	2.8	2.8	3.4	4.1	4.1	5.5	18.6	33.7
47.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.4	4.1	12.4	17.9
50°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	9.6	12.4
52.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	11.0
55°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.8	9.6
57.5°	1.4	1.4	1.4	1.4	1.4	2.1	1.4	1.4	2.1	2.1	8.9
60°	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	8.3
62.5°	2.1	2.1	1.4	2.1	1.4	1.4	2.1	2.1	2.1	2.1	5.5
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.4	2.1
67.5°	2.1	2.1	2.1	2.1	1.4	2.1	1.4	2.1	2.1	1.4	1.4
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	1.4	1.4	1.4
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	3.4	4.1	3.4	3.4	1.4
80°	2.1	2.1	2.1	2.1	2.1	2.1	3.4	3.4	3.4	3.4	4.8
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8	3.4
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.1	2.8
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.1	2.1	2.1
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: P1213414

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2345.6	2322.2	2314.7	2298.9	2297.5	2298.9	2295.4	2290.6	2293.3	2288.5	2284.4
5°	2608.4	2545.8	2505.2	2450.9	2375.9	2359.4	2355.3	2331.9	2323.6	2320.9	2309.9
7.5°	2395.8	2510.0	2578.8	2602.2	2514.2	2493.5	2469.4	2450.2	2431.6	2396.5	2375.2
10°	2301.6	2307.1	2373.1	2450.2	2575.4	2592.6	2605.6	2563.7	2552.0	2462.6	2443.3
12.5°	2279.6	2280.3	2287.8	2334.6	2433.0	2444.0	2490.1	2514.8	2545.1	2562.3	2548.5
15°	2179.2	2234.9	2276.2	2280.3	2289.2	2308.5	2322.2	2408.2	2444.7	2542.4	2536.9
17.5°	2132.4	2150.3	2210.1	2259.0	2250.7	2243.8	2254.8	2266.5	2301.6	2399.3	2397.9
20°	2054.7	2111.8	2144.1	2195.0	2241.1	2243.1	2230.8	2223.9	2210.1	2225.9	2240.4
22.5°	2021.6	2030.6	2091.1	2126.9	2179.2	2197.7	2200.5	2201.2	2193.6	2185.4	2181.2
25°	2018.2	1990.0	2021.0	2065.7	2104.2	2124.1	2146.8	2154.4	2151.6	2151.6	2147.5
27.5°	1651.6	1981.1	1964.5	1994.1	2040.9	2054.7	2066.4	2089.7	2104.2	2114.5	2119.3
30°	1573.2	1632.3	1920.5	1924.7	1972.1	1970.7	1983.8	2003.1	2021.6	2045.7	2051.9
32.5°	1391.6	1536.7	1758.2	1855.2	1904.7	1909.5	1916.4	1921.9	1939.1	1965.9	1989.3
35°	1115.0	1399.8	1506.4	1822.2	1831.1	1840.7	1844.9	1857.9	1863.4	1874.4	1895.1
37.5°	1009.1	1157.0	1445.2	1575.9	1746.5	1754.7	1776.8	1782.3	1791.2	1800.1	1816.0
40°	947.9	988.5	1203.1	1407.4	1678.4	1683.9	1691.5	1705.2	1705.9	1716.2	1730.7
42.5°	899.0	925.2	987.8	1344.1	1630.2	1629.6	1611.7	1620.6	1624.7	1635.7	1655.7
45°	718.1	868.1	908.0	1097.8	1298.0	1391.6	1571.1	1541.5	1540.8	1544.9	1566.3
47.5°	36.5	816.5	844.7	905.9	1225.8	1229.2	1252.6	1449.3	1479.6	1470.0	1472.0
50°	24.8	56.4	786.9	815.1	1056.6	1141.9	1159.1	1168.0	1281.5	1408.1	1387.4
52.5°	19.3	32.3	482.2	756.7	858.5	921.1	1031.8	1095.1	1102.0	1152.9	1325.5
55°	17.2	24.8	52.3	698.2	729.8	743.6	808.2	919.0	1008.4	1035.2	1037.3
57.5°	15.1	22.7	35.8	315.7	663.8	666.5	677.5	716.1	796.5	870.2	953.4
60°	13.8	19.9	28.2	54.3	603.3	610.1	612.2	622.5	632.1	682.4	778.0
62.5°	8.3	15.8	24.8	39.2	477.4	548.2	547.5	554.4	563.4	568.9	588.1
65°	6.9	12.4	21.3	33.0	58.5	72.9	443.0	492.5	498.0	505.6	509.0
67.5°	6.2	11.0	15.8	26.1	44.0	50.2	57.8	71.5	390.7	440.2	447.1
70°	5.5	7.6	13.1	22.0	35.8	38.5	43.3	49.5	58.5	72.2	353.6
72.5°	3.4	5.5	8.9	15.8	27.5	31.0	33.7	37.8	42.0	50.2	57.8
75°	1.4	4.1	7.6	11.7	21.3	23.4	25.5	28.2	31.6	37.1	41.3
77.5°	1.4	3.4	6.2	8.3	13.8	15.8	18.6	20.6	23.4	26.1	30.3
80°	4.8	2.8	4.1	6.2	9.6	10.3	11.7	13.1	15.1	17.2	19.9
82.5°	3.4	4.1	4.8	4.1	4.8	6.2	6.9	8.3	8.9	10.3	11.0
85°	2.8	2.8	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.8	6.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8
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: P1213414

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2284.4	2283.0	2278.9	2278.9	2278.2	2281.0	2283.0	2285.1	2284.4	2288.5	2284.4
5°	2301.6	2298.2	2292.0	2286.5	2284.4	2285.8	2283.7	2285.8	2283.0	2286.5	2280.3
7.5°	2349.1	2337.4	2313.3	2303.7	2291.3	2290.6	2284.4	2283.0	2278.9	2278.9	2271.3
10°	2433.0	2376.6	2369.7	2340.8	2330.5	2280.3	2291.3	2272.7	2270.6	2261.7	2258.3
12.5°	2501.8	2457.7	2444.7	2419.2	2390.3	2288.5	2311.2	2271.3	2269.3	2251.4	2232.8
15°	2503.1	2528.6	2492.8	2422.7	2416.5	2346.3	2300.2	2286.5	2268.6	2214.9	2223.9
17.5°	2422.7	2481.1	2498.3	2483.2	2439.2	2391.7	2327.1	2299.5	2245.9	2221.8	2205.3
20°	2292.0	2351.1	2424.7	2429.5	2457.1	2423.4	2338.7	2294.0	2229.4	2187.4	2173.7
22.5°	2188.1	2231.4	2316.0	2355.3	2389.0	2400.7	2347.0	2281.0	2200.5	2159.9	2151.6
25°	2133.1	2142.7	2168.2	2214.2	2288.5	2342.2	2349.8	2279.6	2237.6	2148.9	2102.1
27.5°	2113.1	2104.9	2094.6	2117.9	2173.7	2239.0	2282.3	2294.0	2189.5	2104.9	2058.1
30°	2062.2	2067.0	2051.2	2043.0	2079.4	2146.8	2223.9	2243.1	2162.7	2075.3	2021.6
32.5°	1999.6	2007.9	2010.6	1996.2	1988.6	2035.4	2118.6	2164.7	2160.6	2033.3	1973.5
35°	1921.2	1944.6	1950.8	1951.5	1939.1	1931.5	1979.7	2075.3	2111.8	2014.1	1927.4
37.5°	1838.7	1845.5	1879.3	1888.2	1888.2	1865.5	1901.3	1977.6	2028.5	1970.7	1871.0
40°	1735.5	1757.5	1789.1	1805.0	1820.8	1822.8	1802.9	1856.6	1940.5	1926.0	1818.0
42.5°	1660.5	1675.0	1694.2	1715.5	1747.9	1756.1	1735.5	1745.1	1832.5	1870.3	1749.2
45°	1573.2	1592.4	1597.9	1621.3	1655.0	1679.1	1678.4	1658.4	1728.6	1775.4	1699.0
47.5°	1483.7	1502.3	1511.9	1523.6	1548.4	1579.3	1596.5	1587.6	1601.4	1692.8	1632.3
50°	1391.6	1401.9	1421.1	1434.2	1450.7	1468.6	1509.9	1518.1	1498.9	1571.8	1558.7
52.5°	1304.2	1307.6	1320.7	1333.8	1355.8	1368.9	1401.9	1426.6	1425.3	1446.6	1476.9
55°	1236.1	1221.0	1223.7	1234.0	1248.5	1268.4	1287.0	1325.5	1338.6	1342.7	1390.9
57.5°	965.8	1121.2	1135.0	1134.3	1151.5	1160.4	1177.6	1203.1	1249.9	1239.5	1293.2
60°	877.7	894.9	1024.9	1040.1	1046.2	1054.5	1075.1	1098.5	1132.9	1154.9	1178.3
62.5°	669.3	773.9	813.1	927.9	945.8	950.6	964.4	975.4	1011.2	1061.4	1051.7
65°	518.0	562.7	682.4	729.1	826.8	839.2	858.5	870.2	880.5	938.3	941.0
67.5°	447.8	454.7	487.0	577.1	639.0	734.6	746.3	756.7	772.5	813.7	839.2
70°	382.5	390.7	399.7	407.2	487.7	551.0	639.7	643.2	653.5	681.0	738.8
72.5°	72.2	326.7	332.2	337.1	346.0	388.0	472.6	541.4	545.5	558.5	611.5
75°	48.8	57.1	78.4	269.6	278.6	281.3	295.8	381.8	445.0	447.8	471.2
77.5°	35.1	39.2	47.5	56.4	143.8	216.0	219.4	235.3	300.6	348.1	352.2
80°	24.1	26.8	31.6	35.8	44.0	57.8	159.6	164.4	172.7	238.0	250.4
82.5°	13.8	15.8	18.6	22.7	26.1	33.0	42.6	55.0	112.1	119.7	158.9
85°	6.9	7.6	8.9	11.0	13.1	15.8	21.3	26.1	35.8	64.7	66.7
87.5°	3.4	3.4	3.4	3.4	5.5	6.2	7.6	9.6	12.4	18.6	24.1
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: P1213414

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2285.1	2294.7	2303.0	2305.0	2305.0	2306.4	2308.5	2309.9	2311.2	2312.6	2311.2
5°	2281.0	2291.3	2298.2	2300.2	2300.2	2304.4	2307.8	2311.9	2314.0	2314.0	2312.6
7.5°	2270.6	2278.2	2287.2	2292.7	2293.3	2300.2	2306.4	2305.7	2308.5	2309.9	2313.3
10°	2256.9	2256.9	2272.0	2276.2	2279.6	2287.2	2289.2	2293.3	2303.0	2304.4	2313.3
12.5°	2250.0	2243.1	2261.0	2263.1	2274.8	2265.1	2277.5	2281.7	2272.0	2285.1	2267.9
15°	2219.1	2227.3	2224.6	2230.8	2251.4	2240.4	2274.1	2263.1	2287.8	2258.3	2310.5
17.5°	2193.6	2192.2	2203.2	2208.7	2212.9	2236.3	2245.2	2257.6	2267.2	2259.0	2279.6
20°	2175.0	2164.0	2172.3	2178.5	2192.9	2210.8	2216.3	2197.7	2230.1	2285.1	2298.2
22.5°	2140.0	2132.4	2142.0	2142.0	2164.0	2161.3	2181.9	2170.2	2200.5	2264.5	2331.2
25°	2092.5	2093.2	2103.5	2115.9	2120.0	2151.0	2162.0	2177.1	2214.9	2291.3	2331.9
27.5°	2044.3	2040.2	2046.4	2071.9	2093.2	2115.9	2119.3	2170.9	2222.5	2274.8	2310.5
30°	1996.2	1992.1	1996.2	2014.8	2040.2	2055.3	2093.2	2162.0	2210.1	2245.9	2279.6
32.5°	1944.6	1940.5	1950.1	1963.9	2008.6	2010.6	2085.6	2150.3	2188.1	2214.2	2208.1
35°	1889.6	1884.1	1893.0	1914.3	1955.6	1970.7	2049.2	2097.3	2140.0	2152.3	2123.4
37.5°	1823.5	1813.9	1824.9	1854.5	1897.8	1941.8	2007.2	2062.9	2085.6	2052.6	2018.2
40°	1754.7	1747.9	1767.1	1782.3	1833.2	1894.4	1969.4	2008.6	1994.1	1956.3	1918.5
42.5°	1693.5	1679.1	1696.3	1725.2	1783.0	1852.4	1913.0	1935.0	1900.6	1844.9	1800.8
45°	1618.6	1601.4	1622.0	1660.5	1722.4	1801.5	1849.0	1841.4	1783.0	1734.8	1674.3
47.5°	1540.1	1519.5	1540.1	1586.2	1655.7	1739.6	1774.0	1739.6	1666.0	1605.5	1556.6
50°	1463.1	1439.0	1459.0	1528.4	1596.5	1661.2	1660.5	1593.8	1549.8	1483.7	1441.1
52.5°	1386.7	1352.3	1372.3	1448.0	1516.1	1589.7	1535.3	1473.4	1420.4	1362.7	1348.9
55°	1292.5	1255.4	1282.2	1392.2	1444.5	1487.9	1401.2	1346.8	1294.6	1265.7	1248.5
57.5°	1203.1	1162.5	1185.9	1315.9	1354.4	1365.4	1285.6	1208.6	1177.6	1168.0	1143.2
60°	1110.9	1064.8	1086.8	1236.8	1263.6	1218.9	1140.5	1080.6	1074.4	1055.2	1035.9
62.5°	1022.9	972.0	985.7	1138.4	1150.8	1069.6	997.4	981.6	966.5	947.2	936.9
65°	921.7	868.8	888.0	1033.9	1022.2	917.6	877.0	873.6	853.6	837.8	853.0
67.5°	828.9	766.3	793.1	919.7	866.7	781.4	764.9	756.7	740.8	749.8	590.9
70°	727.1	659.0	695.4	796.5	718.1	661.7	655.5	643.2	643.8	511.8	431.3
72.5°	613.6	554.4	607.4	661.7	568.2	551.7	542.7	541.4	436.8	354.9	335.0
75°	513.8	454.0	511.1	531.7	452.6	441.6	440.9	364.6	286.8	273.8	267.6
77.5°	401.0	354.9	409.3	378.3	347.4	335.0	300.6	225.6	216.0	207.0	77.7
80°	270.3	273.8	305.4	260.7	247.6	211.2	166.5	159.6	137.6	55.0	43.3
82.5°	164.4	206.4	194.7	163.0	159.6	114.9	105.2	53.7	39.9	31.6	27.5
85°	85.3	104.6	100.4	88.7	66.0	59.2	33.0	25.5	20.6	15.8	13.1
87.5°	28.9	38.5	37.1	29.6	22.7	17.9	11.7	9.6	6.9	5.5	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213414

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2309.9	2309.9	2308.5	2309.9	2310.5	2309.2	2309.2	2310.5	2311.2	2311.9	2315.4
5°	2313.3	2314.7	2316.7	2320.9	2321.6	2329.8	2333.2	2335.3	2337.4	2338.1	2333.2
7.5°	2320.9	2325.7	2329.8	2329.1	2324.3	2311.2	2307.1	2303.7	2309.9	2325.7	2344.3
10°	2327.7	2305.7	2264.5	2320.9	2303.7	2319.5	2366.3	2376.6	2408.2	2452.9	2466.0
12.5°	2280.3	2340.8	2353.9	2290.6	2407.5	2364.2	2415.8	2461.2	2474.3	2519.7	2492.1
15°	2331.2	2360.8	2380.7	2444.0	2437.1	2474.3	2488.7	2479.8	2481.8	2493.5	2524.5
17.5°	2330.5	2389.6	2402.7	2445.4	2474.3	2474.9	2470.8	2466.7	2477.7	2486.6	2468.1
20°	2370.4	2389.6	2415.1	2432.3	2437.8	2444.7	2457.7	2447.4	2426.8	2406.8	2398.6
22.5°	2350.4	2393.8	2415.8	2418.5	2415.1	2393.8	2374.5	2345.6	2336.0	2325.7	2329.1
25°	2354.6	2374.5	2371.8	2360.8	2346.3	2306.4	2296.8	2284.4	2265.8	2221.1	2180.5
27.5°	2325.0	2314.7	2302.3	2275.5	2249.3	2228.0	2203.9	2164.0	2131.0	2082.9	2065.0
30°	2275.5	2234.2	2203.9	2188.1	2162.7	2126.9	2090.4	2041.6	1999.6	1990.0	1981.1
32.5°	2180.5	2140.0	2115.2	2076.7	2033.3	1990.7	1948.7	1929.5	1920.5	1921.9	1913.6
35°	2083.5	2047.8	2010.6	1952.9	1920.5	1877.9	1862.7	1858.6	1850.4	1841.4	1831.8
37.5°	1980.4	1938.4	1882.7	1848.3	1816.0	1798.8	1791.2	1785.0	1770.6	1754.7	1743.7
40°	1880.6	1805.0	1774.0	1740.3	1730.7	1723.1	1712.1	1697.0	1677.0	1674.3	1669.5
42.5°	1747.2	1692.8	1666.0	1659.1	1647.4	1634.4	1624.7	1608.2	1600.0	1605.5	1609.6
45°	1620.6	1593.1	1584.2	1575.9	1553.9	1535.3	1529.1	1523.6	1530.5	1560.8	1488.5
47.5°	1518.1	1507.1	1496.1	1482.4	1461.7	1448.0	1454.2	1459.7	1465.8	1243.7	1135.0
50°	1429.4	1414.3	1397.1	1381.9	1369.5	1368.2	1400.5	1303.5	1091.6	1086.1	976.1
52.5°	1332.4	1309.7	1299.4	1290.4	1295.9	1316.6	1089.6	1011.2	969.9	842.6	786.2
55°	1227.8	1207.9	1207.9	1216.1	1186.6	961.6	949.9	821.3	743.6	721.6	712.6
57.5°	1123.3	1121.2	1132.9	1035.9	872.9	837.1	703.7	675.5	663.1	660.4	645.9
60°	1027.7	1046.9	876.3	806.2	700.9	632.1	612.9	609.5	596.4	591.6	578.5
62.5°	951.3	789.0	734.6	599.8	564.7	555.8	545.5	540.7	529.0	467.1	136.9
65°	687.2	649.3	526.9	504.2	501.5	488.4	484.3	435.4	102.5	68.8	58.5
67.5°	518.7	460.2	444.4	440.2	427.2	401.0	119.0	68.1	58.5	50.9	44.7
70°	398.3	388.0	376.3	366.6	108.0	67.4	58.5	49.5	42.6	37.8	34.4
72.5°	326.0	319.2	185.7	70.9	57.8	48.8	43.3	37.8	33.0	30.3	27.5
75°	255.2	70.9	58.5	48.8	42.0	35.8	31.6	28.2	25.5	23.4	21.3
77.5°	57.8	46.8	39.9	33.7	30.3	26.8	24.1	20.6	18.6	16.5	13.8
80°	35.8	31.0	26.1	24.1	20.6	17.2	15.1	13.8	11.0	10.3	8.9
82.5°	23.4	18.6	16.5	13.8	11.0	10.3	8.9	6.9	6.2	5.5	4.8
85°	10.3	8.9	7.6	6.2	4.8	4.1	3.4	2.8	2.8	2.8	2.8
87.5°	3.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213414

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2316.7	2329.1	2340.8	2337.4	2325.0	2305.7	2300.2	2292.7	2298.2	2309.9	2314.7
5°	2333.2	2326.4	2351.1	2387.6	2446.7	2452.2	2493.5	2503.1	2536.2	2556.8	2556.1
7.5°	2356.6	2454.3	2494.9	2538.9	2558.9	2554.0	2560.2	2555.4	2547.9	2544.4	2540.3
10°	2475.6	2549.9	2565.1	2565.1	2534.1	2492.1	2474.3	2443.3	2381.4	2382.8	2372.5
12.5°	2545.1	2571.2	2535.5	2505.2	2380.7	2332.6	2280.3	2255.5	2241.1	2219.1	2227.3
15°	2508.7	2471.5	2450.2	2352.5	2276.2	2189.5	2190.9	2175.7	2159.9	2161.3	2151.0
17.5°	2455.0	2425.4	2274.1	2206.7	2169.5	2135.8	2129.6	2109.7	2099.4	2095.9	2095.2
20°	2381.4	2274.8	2162.0	2145.5	2100.7	2062.2	2056.0	2062.2	2093.9	2037.5	1846.2
22.5°	2295.4	2142.0	2109.0	2062.2	2032.0	2016.8	2054.7	1882.7	1622.7	1654.3	1620.6
25°	2149.6	2082.9	2026.5	1990.7	1987.2	1894.4	1578.7	1545.6	1378.5	1289.1	1188.6
27.5°	2043.0	2014.1	1954.9	1948.7	1904.0	1549.1	1384.7	1203.1	1136.4	1126.0	1104.0
30°	1978.3	1937.0	1901.3	1745.1	1519.5	1247.1	1110.9	1085.5	1073.8	1061.4	1042.1
32.5°	1900.6	1861.4	1878.6	1467.2	1211.3	1073.8	1046.2	1027.7	1006.3	998.1	928.6
35°	1821.5	1803.6	1467.9	1233.3	1041.4	1008.4	987.8	968.5	770.4	186.4	63.3
37.5°	1736.9	1732.7	1319.3	1023.5	975.4	944.4	886.0	183.0	43.3	29.6	22.0
40°	1670.8	1320.0	1042.8	959.6	920.4	871.5	122.4	30.3	19.3	11.7	7.6
42.5°	1626.8	1187.3	933.4	900.4	815.1	90.1	31.0	13.1	7.6	6.2	4.8
45°	1254.0	937.6	872.2	837.8	103.2	31.0	17.9	6.2	4.8	4.1	2.8
47.5°	1157.0	851.6	813.1	183.0	34.4	16.5	12.4	4.1	2.8	2.8	2.8
50°	876.3	786.9	647.3	44.7	22.0	11.7	8.9	2.8	2.8	2.8	2.1
52.5°	768.3	726.4	69.5	29.6	17.2	8.9	5.5	2.1	2.1	2.1	2.1
55°	702.3	460.9	41.3	22.7	14.4	8.3	3.4	2.1	2.1	2.1	1.4
57.5°	642.5	61.9	30.3	19.3	13.1	7.6	2.1	2.1	2.1	2.1	1.4
60°	544.8	44.7	24.8	17.2	12.4	6.9	2.1	2.1	2.1	2.1	2.1
62.5°	70.9	35.1	21.3	15.1	8.9	5.5	1.4	2.1	2.1	2.1	2.1
65°	51.6	27.5	19.3	10.3	5.5	2.1	1.4	2.1	2.1	2.1	2.1
67.5°	39.9	22.7	14.4	8.9	4.8	1.4	1.4	2.1	2.1	2.1	2.1
70°	31.6	19.3	11.7	7.6	4.1	1.4	1.4	2.1	2.1	2.1	2.1
72.5°	24.8	13.8	8.3	4.1	2.8	1.4	1.4	2.1	2.1	2.1	2.1
75°	18.6	11.0	6.2	3.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1
77.5°	12.4	6.9	4.8	2.8	2.8	2.8	3.4	3.4	2.1	2.1	2.1
80°	8.3	4.8	3.4	3.4	3.4	2.8	3.4	3.4	2.1	3.4	2.1
82.5°	4.1	3.4	3.4	2.8	2.8	2.1	2.8	2.8	2.8	2.8	2.1
85°	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.1
87.5°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.8	2.8	2.1
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: P1213414

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2308.5	2310.5	2305.0	2334.6	2319.5	2320.9	2327.1	2311.2	2314.7	2303.7	2296.1
5°	2558.9	2563.0	2567.1	2568.5	2571.2	2574.7	2570.6	2568.5	2564.4	2550.6	2536.2
7.5°	2519.7	2514.8	2512.8	2515.5	2520.3	2522.4	2519.0	2523.8	2541.7	2549.2	2554.0
10°	2313.3	2291.3	2306.4	2304.4	2287.2	2344.9	2329.1	2338.1	2344.3	2407.5	2446.1
12.5°	2214.9	2228.7	2202.5	2189.5	2206.7	2218.4	2230.1	2205.3	2239.7	2223.9	2274.8
15°	2132.4	2124.1	2121.4	2122.1	2118.6	2135.1	2139.3	2144.8	2149.6	2170.9	2179.2
17.5°	2095.2	2109.0	2114.5	2118.6	2111.8	2104.2	2096.6	2085.6	2089.1	2083.5	2099.4
20°	1717.6	1671.5	1668.8	1695.6	1666.0	1682.5	1722.4	1989.3	1980.4	2084.2	2049.2
22.5°	1433.5	1390.2	1353.0	1320.7	1366.8	1386.1	1460.3	1544.3	1680.5	1659.1	1807.0
25°	1170.7	1154.9	1145.3	1140.5	1143.9	1142.5	1159.1	1198.3	1260.2	1406.0	1594.5
27.5°	1095.1	1087.5	1084.1	1073.1	1081.3	1078.6	1091.6	1099.9	1118.5	1132.9	1194.1
30°	1035.2	1026.3	1020.1	1008.4	1016.7	1017.4	1021.5	1042.8	1050.4	1062.8	1082.0
32.5°	378.3	222.9	209.1	198.8	217.4	283.4	497.3	869.5	991.9	1001.5	1023.5
35°	37.1	31.0	27.5	27.5	28.2	31.0	41.3	108.7	198.8	768.3	961.6
37.5°	14.4	12.4	10.3	9.6	10.3	11.7	15.8	20.6	28.2	58.5	260.7
40°	6.2	5.5	4.8	4.8	4.8	4.8	5.5	6.9	10.3	19.3	30.3
42.5°	4.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.8	6.2	12.4
45°	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	3.4	5.5
47.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8
50°	2.1	2.1	2.1	2.1	1.4	2.1	1.4	2.1	2.1	2.1	2.1
52.5°	2.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1
55°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
57.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	2.1	2.1	1.4	2.1	1.4	1.4	2.1	2.1	2.1	1.4	1.4
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	2.8
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.4	4.1	3.4
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.4	3.4	3.4
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P1213414

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2283.0	2282.3	2296.8	2307.8	2303.7	2307.8	2312.6	2313.3	2314.7	2309.2	2307.1
5°	2508.7	2487.3	2446.1	2416.5	2382.1	2319.5	2288.5	2292.0	2292.7	2290.6	2293.3
7.5°	2552.0	2549.9	2535.5	2529.3	2505.9	2461.2	2389.6	2377.3	2347.0	2327.7	2311.9
10°	2443.3	2492.8	2505.9	2527.9	2541.7	2533.4	2472.9	2463.9	2444.7	2422.7	2427.5
12.5°	2325.7	2366.3	2368.3	2488.0	2514.8	2517.6	2494.2	2506.6	2509.3	2459.8	2430.9
15°	2181.2	2200.5	2241.1	2352.5	2433.7	2484.6	2499.7	2506.6	2472.9	2470.8	2459.1
17.5°	2117.9	2130.3	2148.9	2211.5	2334.6	2409.6	2473.6	2468.8	2481.8	2472.2	2442.6
20°	2038.1	2048.5	2081.5	2113.1	2173.7	2273.4	2393.1	2402.0	2419.2	2417.2	2425.4
22.5°	2036.8	2000.3	2005.8	2030.6	2093.9	2183.3	2310.5	2340.1	2351.1	2358.7	2367.6
25°	1615.8	1905.4	1958.4	1974.2	2015.5	2067.7	2217.7	2228.7	2249.3	2283.0	2307.8
27.5°	1399.8	1596.5	1808.4	1918.5	1944.6	1987.9	2077.4	2093.9	2164.0	2172.3	2210.8
30°	1104.7	1256.7	1573.2	1838.0	1881.3	1911.6	1974.9	2007.9	2038.1	2071.2	2111.8
32.5°	1039.4	1063.4	1238.8	1520.9	1857.9	1835.2	1882.0	1902.0	1935.0	1963.9	1993.4
35°	979.5	996.0	1033.2	1245.7	1513.3	1772.6	1804.3	1817.3	1835.9	1857.9	1879.3
37.5°	916.9	941.7	967.1	1024.2	1399.8	1723.1	1722.4	1737.6	1748.6	1767.1	1785.0
40°	166.5	864.6	905.9	943.1	1085.5	1374.4	1645.4	1652.3	1659.8	1671.5	1690.1
42.5°	26.8	144.5	848.8	884.6	925.2	1230.6	1610.3	1582.1	1577.3	1585.5	1602.0
45°	13.8	35.1	170.6	826.1	862.6	981.6	1316.6	1533.3	1528.4	1512.6	1516.1
47.5°	10.3	22.0	42.0	285.5	807.6	842.6	1214.8	1201.7	1293.2	1468.6	1441.8
50°	8.9	15.1	24.8	58.5	713.3	775.9	935.5	1093.0	1141.2	1147.4	1357.8
52.5°	8.3	10.3	17.9	37.8	150.0	717.4	760.8	815.8	897.0	1071.0	1066.9
55°	7.6	9.6	15.1	25.5	52.3	646.6	691.3	701.6	718.8	802.1	912.1
57.5°	4.1	8.9	14.4	22.0	39.2	118.3	627.3	635.6	649.3	652.8	692.0
60°	2.1	8.3	13.1	19.3	28.9	55.0	564.1	573.7	581.9	583.3	595.7
62.5°	1.4	7.6	11.0	17.9	24.1	39.2	133.4	272.4	518.0	518.0	532.4
65°	1.4	5.5	6.9	11.7	22.0	32.3	56.4	65.3	127.3	313.0	467.1
67.5°	1.4	2.1	6.2	9.6	16.5	24.8	41.3	48.2	57.8	66.0	122.4
70°	1.4	1.4	5.5	6.2	10.3	18.6	29.6	33.7	39.2	44.7	51.6
72.5°	1.4	1.4	4.8	4.8	6.9	12.4	22.7	24.8	28.2	31.6	36.5
75°	3.4	2.8	4.1	4.1	4.8	9.6	17.2	19.3	20.6	23.4	26.8
77.5°	3.4	3.4	3.4	3.4	3.4	6.2	11.0	12.4	14.4	15.8	18.6
80°	2.8	2.8	2.8	3.4	3.4	4.1	6.9	7.6	8.3	10.3	11.0
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.1	4.8	6.2
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8	2.8
87.5°	2.1	2.1	2.1	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1
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: P1213414

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2306.4	2302.3	2298.9	2300.9	2294.7	2292.0	2294.0	2294.7	2296.1	2299.5	2300.2
5°	2300.2	2298.9	2305.0	2308.5	2307.1	2308.5	2308.5	2305.7	2301.6	2304.4	2298.2
7.5°	2296.1	2287.2	2280.3	2281.7	2274.8	2283.0	2290.6	2301.6	2305.0	2305.0	2298.2
10°	2367.0	2357.3	2318.8	2292.7	2275.5	2260.3	2296.1	2259.6	2276.8	2211.5	2286.5
12.5°	2425.4	2438.5	2421.3	2349.8	2337.4	2292.0	2318.1	2273.4	2260.3	2185.4	2209.4
15°	2448.8	2424.0	2418.5	2398.6	2371.8	2358.7	2288.5	2281.0	2259.6	2267.9	2236.3
17.5°	2428.2	2440.6	2424.0	2411.0	2383.5	2352.5	2310.5	2273.4	2243.8	2177.8	2233.5
20°	2408.2	2424.7	2375.2	2383.5	2386.2	2350.4	2328.4	2297.5	2260.3	2198.4	2150.3
22.5°	2375.2	2363.5	2367.6	2355.3	2344.9	2349.8	2319.5	2298.2	2235.6	2207.4	2142.0
25°	2321.6	2317.4	2328.4	2327.1	2302.3	2294.0	2278.9	2256.2	2231.4	2186.0	2132.4
27.5°	2234.2	2255.5	2274.8	2283.7	2270.6	2248.6	2240.4	2227.3	2210.1	2164.0	2124.1
30°	2142.0	2166.1	2188.1	2207.4	2219.1	2209.4	2201.9	2194.3	2168.2	2137.9	2093.2
32.5°	2036.8	2068.4	2098.7	2122.1	2147.5	2155.1	2149.6	2143.4	2121.4	2093.9	2058.1
35°	1915.0	1958.4	2002.4	2044.3	2055.3	2073.2	2091.1	2080.8	2069.1	2041.6	2008.6
37.5°	1811.8	1842.8	1874.4	1927.4	1965.9	1988.6	2020.3	2024.4	2004.4	1991.4	1948.0
40°	1705.2	1733.4	1779.5	1810.5	1863.4	1889.6	1923.3	1938.4	1933.6	1926.0	1888.2
42.5°	1621.3	1635.1	1665.3	1692.8	1745.1	1798.8	1828.4	1844.9	1862.1	1855.9	1836.6
45°	1531.9	1544.3	1554.6	1578.7	1629.6	1677.0	1713.5	1738.2	1769.2	1783.6	1760.3
47.5°	1443.1	1446.6	1459.0	1478.9	1509.2	1545.6	1606.9	1644.0	1672.9	1701.1	1686.0
50°	1375.0	1362.7	1364.7	1377.1	1401.9	1437.6	1481.7	1533.9	1567.0	1601.4	1604.8
52.5°	1201.7	1302.1	1278.1	1284.9	1298.0	1315.2	1361.3	1412.9	1453.5	1483.0	1512.6
55°	1008.4	1028.4	1221.7	1194.1	1202.4	1217.5	1238.8	1290.4	1329.6	1370.9	1412.2
57.5°	782.1	930.7	938.3	1117.1	1113.0	1114.3	1132.2	1161.8	1201.0	1252.6	1287.7
60°	608.1	670.7	792.4	854.3	1011.2	1016.7	1027.0	1044.2	1077.9	1126.7	1182.4
62.5°	536.5	544.8	588.1	681.0	782.8	905.9	927.9	930.7	945.8	994.7	1059.3
65°	471.2	476.7	489.8	499.4	584.7	703.7	809.6	826.8	836.4	865.3	920.4
67.5°	324.7	410.7	422.4	429.2	437.5	492.5	623.9	711.3	722.3	747.7	795.9
70°	62.6	130.0	355.6	363.2	367.3	379.7	401.0	540.0	612.9	637.0	659.0
72.5°	42.6	50.2	60.5	143.1	302.7	309.5	314.4	332.2	455.4	525.5	537.2
75°	31.0	34.4	40.6	50.2	61.9	201.5	249.7	258.6	267.6	369.4	428.5
77.5°	22.0	24.8	27.5	32.3	37.8	48.8	70.2	193.3	202.2	207.0	292.3
80°	12.4	15.1	18.6	21.3	24.1	27.5	35.8	44.7	99.7	145.8	153.4
82.5°	6.9	8.3	9.6	11.7	13.1	16.5	19.9	24.1	31.6	46.8	99.1
85°	3.4	3.4	3.4	4.8	5.5	7.6	8.9	10.3	14.4	19.9	27.5
87.5°	2.1	2.1	2.8	2.8	2.8	3.4	3.4	3.4	4.1	6.2	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213414

CATALOG NUMBER: 4SNLED-LD5-39SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	2292.0	2292.0	2292.0	2292.0	2292.0
2.5°	2300.9	2298.9	2298.9	2307.1	2305.0
5°	2296.8	2294.7	2294.0	2303.0	2298.9
7.5°	2293.3	2285.8	2283.7	2292.0	2288.5
10°	2279.6	2274.1	2277.5	2274.8	2273.4
12.5°	2256.2	2252.8	2238.3	2239.7	2251.4
15°	2214.2	2228.0	2203.2	2225.2	2230.1
17.5°	2137.2	2168.2	2192.2	2205.3	2207.4
20°	2171.6	2181.9	2169.5	2170.2	2178.5
22.5°	2126.9	2131.7	2135.1	2131.0	2148.9
25°	2055.3	2036.8	2076.7	2084.9	2113.8
27.5°	2033.3	2018.2	2036.8	2035.4	2059.5
30°	2015.5	1966.6	1974.9	1987.9	2017.5
32.5°	1990.0	1913.0	1904.7	1933.6	1966.6
35°	1945.3	1872.4	1853.1	1871.7	1921.2
37.5°	1907.5	1816.0	1777.4	1802.2	1866.9
40°	1851.0	1771.9	1712.1	1734.1	1810.5
42.5°	1783.6	1734.1	1641.9	1657.1	1744.4
45°	1715.5	1671.5	1573.8	1581.4	1685.3
47.5°	1646.1	1605.5	1503.0	1504.4	1609.6
50°	1578.0	1524.3	1439.7	1415.6	1529.1
52.5°	1489.2	1439.7	1375.7	1336.5	1452.8
55°	1405.3	1349.6	1302.8	1242.3	1366.1
57.5°	1323.5	1261.5	1229.9	1152.2	1267.7
60°	1211.3	1181.8	1135.0	1060.7	1179.0
62.5°	1096.5	1086.8	1039.4	962.3	1069.6
65°	962.3	985.0	936.2	870.2	956.1
67.5°	835.8	876.3	822.7	782.1	846.8
70°	700.9	747.7	717.4	703.0	730.5
72.5°	568.2	613.6	616.3	606.0	615.0
75°	438.9	489.1	516.6	500.8	502.8
77.5°	332.9	357.0	387.3	399.7	396.9
80°	205.7	247.6	272.4	297.8	288.9
82.5°	103.9	138.9	169.2	196.7	183.7
85°	43.3	55.7	77.7	102.5	98.4
87.5°	13.1	22.0	23.4	33.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)