

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-LD5-60HL-LC-UNV-L935-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 (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

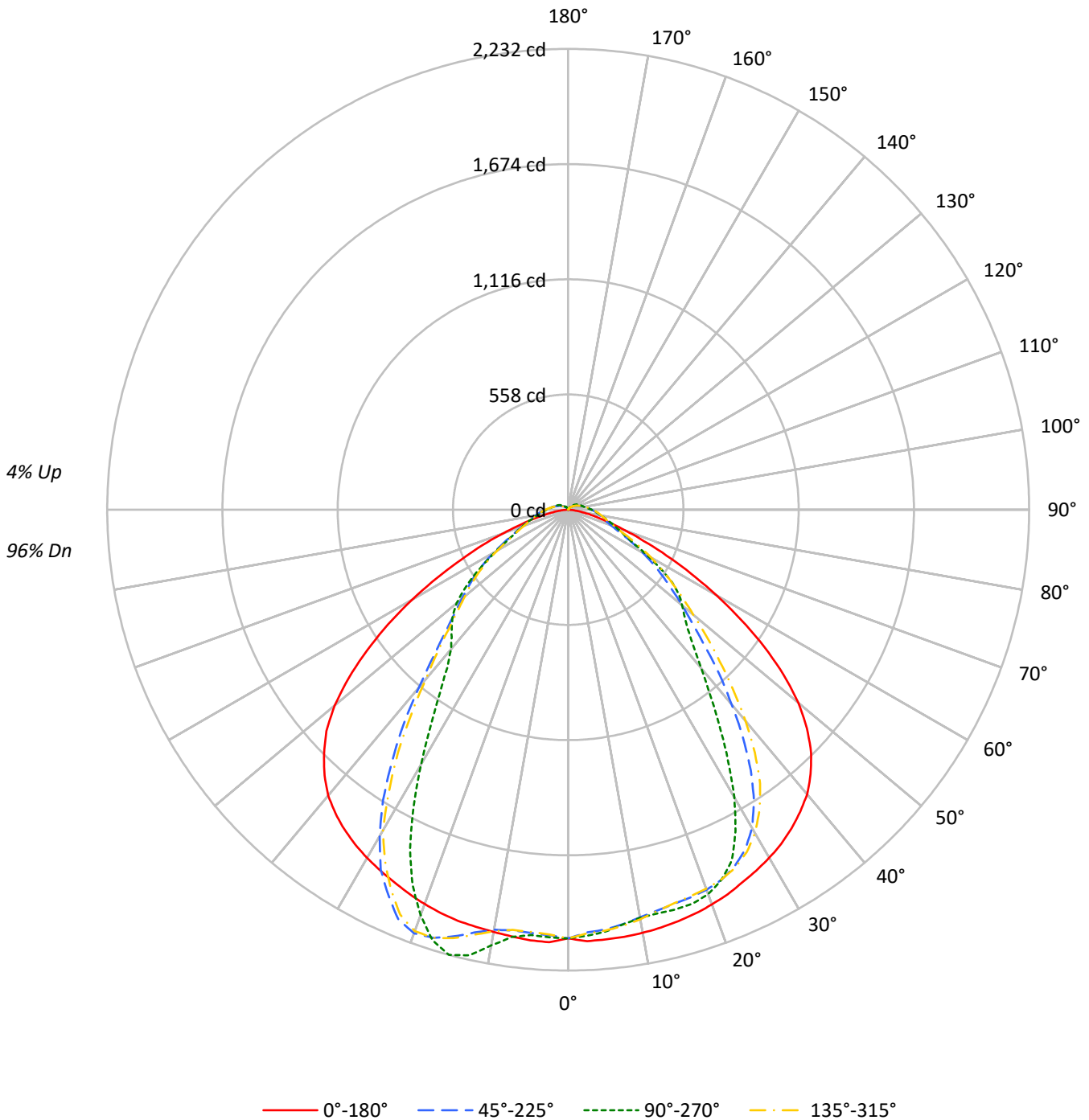
Lumens per Lamp: N/A  
Luminaire Lumens: 4950.0 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 43  
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-LD5-60HL-LC-UNV-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	16779	16779	16779	16779
5°	16902	16114	16937	16240
10°	16980	15444	16945	16492
15°	17112	15237	17103	16966
20°	17300	14996	17281	15808
25°	17513	14226	17504	13746
30°	17842	12330	17852	10923
35°	18192	9970	18244	8437
40°	18500	8028	18577	7072
45°	18435	6799	18530	6622
50°	17640	6260	17887	6120
55°	15652	5627	16041	5115
60°	12695	4306	13370	3950
65°	9437	3295	10168	3124
70°	6417	2844	7235	2719
75°	4200	2566	4888	2427
80°	2712	2393	3178	2201
85°	1394	2387	1831	2180



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.2	4.0
10°-20°	586.8	11.9
20°-30°	892.2	18.0
30°-40°	957.1	19.3
40°-50°	830.6	16.8
50°-60°	615.6	12.4
60°-70°	352.7	7.1
70°-80°	195.3	3.9
80°-90°	118.9	2.4
90°-100°	77.3	1.6
100°-110°	51.8	1.0
110°-120°	35.0	0.7
120°-130°	21.5	0.4
130°-140°	11.3	0.2
140°-150°	5.1	0.1
150°-160°	1.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1676.2	33.9
0°-40°	2633.3	53.2
0°-60°	4079.5	82.4
0°-90°	4746.5	95.9
90°-120°	164.1	3.3
90°-150°	202.0	4.1
90°-180°	204.0	4.1
0°-180°	4950.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2076	2076	2076	2076	2076	
5°	2089	2052	2094	2068	2089	199
15°	2062	2004	2061	2232	2062	584
25°	1993	1875	1992	1812	1993	921
35°	1884	1276	1890	1080	1884	1180
45°	1664	818	1672	797	1664	1274
55°	1160	614	1189	558	1160	1029
65°	527	311	567	295	527	531
75°	150	197	175	187	150	171
85°	20	136	27	124	20	27
90°	0	114	2	105	0	1
95°	1	93	0	89	1	1
105°	1	70	1	66	1	1
115°	1	57	1	52	1	1
125°	1	43	1	35	1	1
135°	1	27	1	22	1	1
145°	1	16	2	13	1	1
155°	2	8	2	6	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4
2.5°	2091.4	2086.1	2083.9	2079.6	2082.8	2095.7	2087.1	2073.2	2074.3	2049.6	2062.5
5°	2089.3	2082.8	2079.6	2075.3	2077.5	2089.3	2080.7	2066.7	2065.7	2041.0	2052.8
7.5°	2086.1	2079.6	2074.3	2071.0	2072.1	2081.8	2071.0	2054.9	2051.7	2024.9	2035.6
10°	2080.7	2076.4	2068.9	2063.5	2062.5	2073.2	2056.0	2039.9	2032.4	2004.5	2015.3
12.5°	2073.2	2066.7	2059.2	2049.6	2048.5	2054.9	2041.0	2018.5	2011.0	1988.5	2000.3
15°	2062.5	2054.9	2046.4	2035.6	2030.3	2034.6	2017.4	1997.0	1996.0	1976.7	1992.7
17.5°	2050.7	2039.9	2030.3	2015.3	2007.8	2011.0	1997.0	1978.8	1980.9	1969.1	1987.4
20°	2034.6	2022.8	2007.8	1992.7	1982.0	1987.4	1977.7	1963.8	1967.0	1958.4	1974.5
22.5°	2016.3	2000.3	1982.0	1964.9	1956.3	1963.8	1956.3	1944.5	1945.6	1940.2	1949.8
25°	1992.7	1974.5	1953.1	1931.6	1927.3	1932.7	1928.4	1918.7	1914.4	1905.9	1910.2
27.5°	1971.3	1950.9	1924.1	1901.6	1894.1	1904.8	1895.1	1879.1	1867.3	1855.5	1846.9
30°	1946.6	1922.0	1891.9	1866.2	1859.8	1864.0	1850.1	1825.4	1794.3	1779.3	1755.7
32.5°	1919.8	1887.6	1850.1	1821.1	1816.8	1813.6	1787.9	1752.5	1704.2	1674.2	1637.7
35°	1884.4	1849.0	1804.0	1768.6	1762.2	1743.9	1702.1	1654.9	1592.7	1541.2	1479.0
37.5°	1844.7	1802.9	1755.7	1708.5	1690.3	1653.8	1594.8	1545.5	1451.1	1388.9	1313.8
40°	1799.7	1749.3	1691.4	1634.5	1604.5	1545.5	1477.9	1405.0	1313.8	1230.2	1166.9
42.5°	1737.5	1683.9	1615.2	1551.9	1500.5	1422.2	1342.8	1239.8	1156.2	1085.4	1021.0
45°	1663.5	1599.1	1519.8	1443.6	1378.2	1284.9	1191.6	1088.6	1018.9	936.3	892.3
47.5°	1568.0	1498.3	1413.6	1328.9	1243.1	1140.1	1042.5	943.8	874.1	815.1	782.9
50°	1455.4	1391.1	1297.7	1196.9	1102.6	995.3	897.7	823.7	756.1	719.7	695.0
52.5°	1316.0	1255.9	1160.5	1051.1	959.9	854.8	765.8	705.7	657.5	630.6	622.1
55°	1160.5	1107.9	1013.5	911.6	818.3	721.8	654.2	601.7	570.6	554.5	555.6
57.5°	994.2	953.5	864.5	773.3	685.3	612.4	551.3	509.4	485.9	484.8	488.0
60°	828.0	798.0	720.7	642.4	565.2	506.2	461.2	432.2	417.2	418.3	417.2
62.5°	669.3	641.4	585.6	521.2	460.1	420.4	379.7	367.9	355.0	353.9	353.9
65°	526.6	505.2	460.1	414.0	367.9	342.1	321.8	307.8	298.2	296.0	297.1
67.5°	395.8	387.2	356.1	325.0	296.0	279.9	262.8	259.5	252.0	252.0	254.2
70°	294.9	288.5	271.3	253.1	241.3	230.6	222.0	222.0	220.9	219.9	225.2
72.5°	213.4	214.5	209.1	195.2	194.1	192.0	189.8	193.1	194.1	197.3	203.8
75°	150.2	153.4	153.4	151.2	155.5	160.9	164.1	169.5	175.9	180.2	187.7
77.5°	106.2	106.2	111.5	118.0	126.6	136.2	144.8	152.3	160.9	166.2	172.7
80°	68.6	71.9	80.4	92.2	104.0	116.9	128.7	138.4	146.9	155.5	159.8
82.5°	40.8	46.1	56.8	71.9	86.9	103.0	114.8	126.6	136.2	144.8	148.0
85°	20.4	27.9	40.8	56.8	72.9	90.1	105.1	115.8	126.6	134.1	138.4
87.5°	6.4	15.0	29.0	44.0	61.1	78.3	94.4	106.2	115.8	122.3	126.6
90°	0.0	7.5	20.4	36.5	52.6	69.7	84.7	97.6	107.3	112.6	115.8
92.5°	0.0	4.3	16.1	30.0	45.0	62.2	77.2	89.0	97.6	103.0	105.1
95°	1.1	3.2	11.8	24.7	39.7	55.8	69.7	80.4	89.0	94.4	95.5
97.5°	1.1	2.1	9.7	20.4	34.3	49.3	63.3	74.0	80.4	85.8	86.9
100°	1.1	2.1	7.5	18.2	30.0	44.0	56.8	66.5	74.0	78.3	79.4
102.5°	1.1	1.1	6.4	15.0	26.8	38.6	50.4	60.1	66.5	70.8	72.9
105°	1.1	1.1	5.4	12.9	23.6	34.3	45.0	54.7	60.1	64.4	66.5
107.5°	1.1	1.1	4.3	10.7	20.4	30.0	40.8	48.3	54.7	59.0	61.1
110°	1.1	1.1	3.2	9.7	17.2	26.8	35.4	42.9	49.3	53.6	55.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	1.1	3.2	8.6	15.0	23.6	31.1	38.6	44.0	48.3	51.5
115°	1.1	1.1	3.2	7.5	13.9	20.4	27.9	34.3	39.7	44.0	47.2
117.5°	1.1	1.1	3.2	6.4	11.8	18.2	24.7	31.1	35.4	39.7	42.9
120°	1.1	1.1	2.1	5.4	10.7	16.1	21.5	26.8	32.2	36.5	39.7
122.5°	1.1	1.1	2.1	5.4	8.6	13.9	19.3	23.6	29.0	32.2	35.4
125°	1.1	1.1	2.1	4.3	7.5	12.9	17.2	21.5	24.7	29.0	32.2
127.5°	1.1	1.1	2.1	4.3	6.4	10.7	15.0	19.3	22.5	25.7	27.9
130°	1.1	1.1	2.1	3.2	5.4	8.6	12.9	16.1	20.4	22.5	24.7
132.5°	1.1	1.1	1.1	3.2	4.3	6.4	9.7	13.9	17.2	20.4	21.5
135°	1.1	1.1	1.1	2.1	4.3	5.4	7.5	10.7	13.9	17.2	19.3
137.5°	1.1	1.1	1.1	2.1	3.2	5.4	6.4	8.6	11.8	13.9	17.2
140°	1.1	1.1	1.1	2.1	3.2	4.3	5.4	7.5	9.7	11.8	13.9
142.5°	1.1	1.1	1.1	2.1	2.1	3.2	4.3	6.4	7.5	9.7	11.8
145°	1.1	1.1	1.1	2.1	2.1	3.2	4.3	5.4	6.4	7.5	9.7
147.5°	1.1	1.1	1.1	2.1	2.1	2.1	3.2	4.3	5.4	6.4	7.5
150°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.3	5.4	6.4
152.5°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.3	5.4
155°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.3	4.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4
2.5°	2058.2	2060.3	2073.2	2072.1	2070.0	2067.8	2067.8	2065.7	2067.8	2073.2	2071.0
5°	2047.4	2050.7	2060.3	2059.2	2057.1	2056.0	2054.9	2051.7	2053.9	2061.4	2059.2
7.5°	2028.1	2031.4	2039.9	2035.6	2032.4	2034.6	2029.2	2026.0	2030.3	2037.8	2036.7
10°	2007.8	2009.9	2020.6	2018.5	2013.1	2014.2	2008.8	2006.7	2012.0	2016.3	2017.4
12.5°	1993.8	2001.3	2011.0	2009.9	2008.8	2009.9	2004.5	2002.4	2005.6	2009.9	2008.8
15°	1990.6	2000.3	2011.0	2011.0	2012.0	2013.1	2007.8	2004.5	2007.8	2011.0	2009.9
17.5°	1987.4	1999.2	2008.8	2007.8	2008.8	2011.0	2002.4	2000.3	2004.5	2008.8	2006.7
20°	1976.7	1987.4	1993.8	1991.7	1991.7	1992.7	1982.0	1982.0	1988.5	1991.7	1992.7
22.5°	1946.6	1959.5	1959.5	1954.1	1954.1	1949.8	1946.6	1940.2	1947.7	1953.1	1957.3
25°	1901.6	1906.9	1900.5	1888.7	1882.3	1876.9	1861.9	1874.8	1874.8	1890.9	1896.2
27.5°	1838.3	1826.5	1808.3	1783.6	1778.2	1761.1	1751.4	1754.6	1760.0	1782.5	1799.7
30°	1734.3	1698.9	1667.8	1657.0	1633.4	1616.3	1599.1	1607.7	1617.4	1630.2	1665.6
32.5°	1597.0	1562.7	1512.3	1494.0	1469.4	1447.9	1427.5	1440.4	1457.6	1466.1	1504.7
35°	1439.3	1398.6	1352.4	1321.3	1295.6	1283.8	1258.1	1276.3	1294.5	1301.0	1334.2
37.5°	1272.0	1230.2	1189.4	1162.6	1137.9	1130.4	1113.3	1126.1	1140.1	1149.7	1177.6
40°	1113.3	1074.7	1043.6	1025.3	1008.2	1001.7	995.3	1000.7	1011.4	1018.9	1040.3
42.5°	977.1	946.0	924.5	913.8	902.0	893.4	894.5	896.6	902.0	918.1	927.7
45°	858.0	839.8	825.8	823.7	816.2	815.1	814.0	818.3	821.6	831.2	838.7
47.5°	762.6	755.1	751.8	756.1	759.3	755.1	757.2	762.6	769.0	769.0	767.9
50°	687.5	689.6	693.9	703.6	710.0	712.2	714.3	720.7	721.8	724.0	720.7
52.5°	626.4	628.5	640.3	655.3	662.8	666.0	670.3	676.8	676.8	678.9	674.6
55°	564.1	567.4	579.2	594.2	600.6	604.9	609.2	613.5	616.7	621.0	617.8
57.5°	495.5	505.2	512.7	517.0	521.2	524.5	527.7	528.8	535.2	536.3	541.6
60°	422.6	424.7	432.2	431.2	427.9	436.5	432.2	439.7	447.2	456.9	458.0
62.5°	352.9	353.9	359.3	357.1	361.4	360.4	363.6	363.6	368.9	373.2	378.6
65°	298.2	299.2	303.5	303.5	302.5	305.7	308.9	311.0	311.0	314.2	318.5
67.5°	257.4	260.6	264.9	267.1	269.2	269.2	272.4	273.5	275.6	276.7	278.9
70°	229.5	233.8	238.1	240.2	241.3	243.5	244.5	244.5	246.7	247.8	249.9
72.5°	209.1	213.4	216.6	216.6	218.8	219.9	219.9	220.9	222.0	224.2	226.3
75°	192.0	195.2	197.3	196.3	196.3	196.3	197.3	197.3	199.5	201.6	203.8
77.5°	175.9	179.1	179.1	177.0	177.0	177.0	177.0	178.0	179.1	181.3	183.4
80°	164.1	164.1	163.0	163.0	160.9	159.8	159.8	160.9	160.9	163.0	166.2
82.5°	151.2	151.2	150.2	149.1	148.0	146.9	146.9	148.0	149.1	150.2	152.3
85°	139.4	139.4	137.3	137.3	136.2	136.2	136.2	136.2	137.3	138.4	140.5
87.5°	127.6	126.6	125.5	124.4	124.4	124.4	124.4	124.4	125.5	127.6	128.7
90°	115.8	114.8	113.7	113.7	112.6	112.6	113.7	113.7	114.8	115.8	116.9
92.5°	105.1	104.0	103.0	103.0	101.9	101.9	103.0	101.9	104.0	104.0	105.1
95°	95.5	94.4	93.3	93.3	93.3	93.3	93.3	93.3	94.4	94.4	95.5
97.5°	86.9	85.8	84.7	84.7	85.8	84.7	85.8	85.8	85.8	86.9	87.9
100°	79.4	78.3	78.3	79.4	78.3	78.3	79.4	79.4	79.4	79.4	80.4
102.5°	72.9	72.9	72.9	72.9	72.9	72.9	74.0	74.0	74.0	74.0	75.1
105°	66.5	67.6	67.6	67.6	68.6	68.6	68.6	69.7	69.7	69.7	69.7
107.5°	62.2	63.3	63.3	64.4	64.4	65.4	65.4	65.4	65.4	66.5	66.5
110°	57.9	59.0	60.1	61.1	61.1	62.2	62.2	62.2	62.2	62.2	62.2





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	53.6	54.7	55.8	57.9	59.0	59.0	59.0	59.0	60.1	60.1	59.0
115°	49.3	51.5	52.6	54.7	55.8	55.8	56.8	56.8	56.8	56.8	55.8
117.5°	45.0	48.3	49.3	51.5	52.6	52.6	53.6	53.6	53.6	53.6	52.6
120°	41.8	44.0	46.1	47.2	48.3	49.3	49.3	50.4	50.4	50.4	49.3
122.5°	38.6	40.8	42.9	44.0	45.0	46.1	46.1	46.1	46.1	46.1	46.1
125°	34.3	36.5	38.6	39.7	40.8	41.8	41.8	42.9	42.9	42.9	41.8
127.5°	31.1	33.2	34.3	36.5	37.5	37.5	38.6	38.6	38.6	38.6	37.5
130°	26.8	29.0	31.1	32.2	33.2	33.2	34.3	34.3	34.3	34.3	34.3
132.5°	23.6	25.7	26.8	29.0	29.0	30.0	30.0	31.1	31.1	31.1	30.0
135°	21.5	22.5	23.6	25.7	25.7	26.8	26.8	26.8	26.8	26.8	26.8
137.5°	19.3	20.4	21.5	22.5	22.5	23.6	23.6	23.6	23.6	24.7	23.6
140°	16.1	18.2	19.3	19.3	20.4	20.4	20.4	21.5	21.5	21.5	20.4
142.5°	13.9	15.0	16.1	17.2	18.2	18.2	18.2	18.2	19.3	18.2	18.2
145°	10.7	12.9	13.9	15.0	16.1	16.1	16.1	16.1	16.1	16.1	16.1
147.5°	8.6	9.7	11.8	12.9	12.9	13.9	13.9	13.9	13.9	13.9	13.9
150°	7.5	7.5	9.7	10.7	11.8	11.8	11.8	11.8	11.8	11.8	11.8
152.5°	5.4	6.4	7.5	8.6	9.7	9.7	9.7	9.7	9.7	9.7	9.7
155°	5.4	5.4	6.4	6.4	7.5	7.5	7.5	7.5	8.6	7.5	7.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4
2.5°	2067.8	2066.7	2071.0	2066.7	2045.3	2053.9	2050.7	2062.5	2063.5	2066.7	2077.5
5°	2057.1	2057.1	2062.5	2058.2	2037.8	2046.4	2045.3	2057.1	2059.2	2061.4	2073.2
7.5°	2035.6	2036.7	2044.2	2041.0	2019.6	2032.4	2031.4	2045.3	2049.6	2053.9	2064.6
10°	2015.3	2014.2	2022.8	2019.6	1999.2	2014.2	2013.1	2027.1	2033.5	2041.0	2053.9
12.5°	2004.5	2001.3	2004.5	2001.3	1978.8	1990.6	1991.7	2007.8	2015.3	2024.9	2039.9
15°	2004.5	1999.2	1999.2	1992.7	1967.0	1974.5	1975.6	1986.3	1996.0	2005.6	2023.8
17.5°	2002.4	1997.0	1996.0	1990.6	1962.7	1962.7	1961.6	1969.1	1974.5	1984.2	2003.5
20°	1990.6	1988.5	1987.4	1984.2	1958.4	1954.1	1952.0	1952.0	1955.2	1958.4	1977.7
22.5°	1959.5	1961.6	1963.8	1965.9	1945.6	1938.0	1939.1	1937.0	1933.8	1933.8	1949.8
25°	1901.6	1912.3	1920.9	1930.5	1918.7	1913.4	1919.8	1916.6	1911.2	1906.9	1920.9
27.5°	1809.3	1831.9	1850.1	1873.7	1874.8	1870.5	1887.6	1885.5	1884.4	1878.0	1888.7
30°	1681.7	1717.1	1741.8	1776.1	1805.1	1809.3	1838.3	1842.6	1846.9	1843.7	1854.4
32.5°	1527.3	1575.5	1617.4	1671.0	1698.9	1723.5	1764.3	1781.5	1798.6	1804.0	1815.8
35°	1358.9	1413.6	1462.9	1521.9	1565.9	1619.5	1668.8	1694.6	1733.2	1748.2	1765.4
37.5°	1199.1	1250.6	1298.8	1357.8	1428.6	1484.4	1545.5	1603.4	1656.0	1677.4	1703.2
40°	1057.5	1099.3	1145.5	1196.9	1261.3	1334.2	1400.7	1481.2	1543.4	1586.3	1623.8
42.5°	950.3	970.6	1010.3	1056.4	1107.9	1181.9	1249.5	1339.6	1414.7	1475.8	1538.0
45°	854.8	864.5	893.4	918.1	970.6	1036.1	1107.9	1195.9	1274.2	1352.4	1427.5
47.5°	773.3	785.1	799.0	814.0	851.6	906.3	968.5	1047.9	1126.1	1217.3	1303.1
50°	718.6	721.8	724.0	730.4	752.9	790.4	840.9	908.4	983.5	1081.1	1172.3
52.5°	670.3	670.3	663.9	660.7	669.3	692.8	721.8	770.1	847.3	937.4	1033.9
55°	618.8	609.2	607.0	596.3	598.5	609.2	623.1	660.7	724.0	801.2	894.5
57.5°	547.0	542.7	542.7	538.4	529.8	535.2	538.4	565.2	610.3	676.8	758.3
60°	464.4	462.3	467.6	468.7	461.2	464.4	463.3	479.4	511.6	565.2	632.8
62.5°	381.8	391.5	392.5	396.8	392.5	391.5	396.8	410.8	426.9	467.6	520.2
65°	320.7	326.0	327.1	332.5	330.3	330.3	334.6	345.4	355.0	382.9	423.6
67.5°	281.0	278.9	279.9	283.1	279.9	278.9	282.1	288.5	296.0	313.2	342.1
70°	249.9	247.8	247.8	247.8	243.5	240.2	241.3	243.5	246.7	256.3	274.6
72.5°	226.3	226.3	223.1	219.9	216.6	214.5	212.4	210.2	209.1	212.4	222.0
75°	204.9	205.9	204.9	201.6	197.3	193.1	188.8	184.5	179.1	177.0	178.0
77.5°	185.5	186.6	187.7	186.6	182.3	177.0	170.5	164.1	156.6	149.1	144.8
80°	168.4	170.5	171.6	170.5	167.3	163.0	155.5	148.0	137.3	127.6	116.9
82.5°	153.4	156.6	157.7	157.7	155.5	151.2	142.6	134.1	122.3	109.4	95.5
85°	141.6	143.7	145.9	145.9	144.8	140.5	131.9	122.3	110.5	95.5	80.4
87.5°	129.8	130.8	133.0	135.1	133.0	128.7	121.2	110.5	98.7	83.7	66.5
90°	118.0	119.0	121.2	123.3	122.3	118.0	111.5	101.9	89.0	72.9	55.8
92.5°	106.2	108.3	109.4	110.5	111.5	108.3	103.0	93.3	80.4	64.4	48.3
95°	97.6	97.6	99.7	100.8	101.9	98.7	94.4	84.7	72.9	57.9	41.8
97.5°	89.0	89.0	91.2	91.2	92.2	90.1	85.8	77.2	65.4	51.5	35.4
100°	80.4	81.5	82.6	83.7	83.7	82.6	78.3	69.7	59.0	46.1	31.1
102.5°	75.1	75.1	76.1	76.1	77.2	75.1	70.8	63.3	52.6	40.8	26.8
105°	69.7	69.7	70.8	70.8	69.7	67.6	63.3	56.8	47.2	35.4	23.6
107.5°	65.4	65.4	65.4	65.4	64.4	62.2	57.9	50.4	41.8	32.2	21.5
110°	62.2	61.1	61.1	60.1	59.0	55.8	51.5	45.0	37.5	27.9	18.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	59.0	57.9	56.8	55.8	53.6	50.4	46.1	40.8	33.2	24.7	16.1
115°	55.8	54.7	53.6	51.5	49.3	46.1	41.8	36.5	29.0	21.5	13.9
117.5°	52.6	51.5	49.3	47.2	45.0	41.8	37.5	32.2	25.7	19.3	12.9
120°	48.3	47.2	46.1	44.0	41.8	37.5	33.2	29.0	22.5	17.2	10.7
122.5°	45.0	44.0	41.8	40.8	37.5	34.3	30.0	25.7	20.4	15.0	9.7
125°	40.8	39.7	38.6	36.5	34.3	30.0	26.8	22.5	18.2	12.9	7.5
127.5°	37.5	36.5	34.3	32.2	30.0	26.8	23.6	20.4	16.1	10.7	7.5
130°	33.2	32.2	31.1	29.0	26.8	23.6	21.5	17.2	13.9	9.7	6.4
132.5°	29.0	29.0	27.9	25.7	23.6	21.5	18.2	15.0	11.8	8.6	5.4
135°	26.8	25.7	24.7	22.5	21.5	18.2	16.1	12.9	9.7	7.5	4.3
137.5°	23.6	22.5	21.5	20.4	18.2	16.1	13.9	10.7	8.6	6.4	4.3
140°	20.4	19.3	19.3	17.2	16.1	13.9	11.8	9.7	7.5	5.4	3.2
142.5°	18.2	17.2	16.1	15.0	13.9	11.8	9.7	7.5	6.4	4.3	3.2
145°	16.1	15.0	13.9	12.9	11.8	9.7	8.6	6.4	5.4	4.3	3.2
147.5°	12.9	12.9	11.8	10.7	9.7	8.6	7.5	6.4	4.3	3.2	2.1
150°	10.7	10.7	9.7	8.6	8.6	7.5	6.4	5.4	4.3	3.2	2.1
152.5°	9.7	8.6	8.6	7.5	7.5	6.4	5.4	4.3	3.2	3.2	2.1
155°	7.5	7.5	7.5	6.4	6.4	5.4	4.3	4.3	3.2	2.1	2.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4
2.5°	2079.6	2066.7	2077.5	2096.8	2094.6	2092.5	2090.3	2094.6	2108.6	2101.1	2089.3
5°	2076.4	2063.5	2075.3	2093.6	2092.5	2089.3	2087.1	2091.4	2105.4	2097.8	2085.0
7.5°	2070.0	2058.2	2066.7	2085.0	2085.0	2082.8	2080.7	2085.0	2097.8	2091.4	2078.5
10°	2059.2	2050.7	2059.2	2076.4	2077.5	2073.2	2071.0	2076.4	2089.3	2086.1	2075.3
12.5°	2050.7	2042.1	2051.7	2068.9	2070.0	2065.7	2062.5	2068.9	2086.1	2088.2	2085.0
15°	2038.9	2031.4	2043.2	2061.4	2061.4	2058.2	2058.2	2066.7	2090.3	2100.0	2105.4
17.5°	2021.7	2016.3	2030.3	2048.5	2049.6	2047.4	2048.5	2065.7	2096.8	2120.4	2135.4
20°	2000.3	1998.1	2013.1	2032.4	2035.6	2036.7	2042.1	2067.8	2110.7	2142.9	2157.9
22.5°	1974.5	1975.6	1992.7	2013.1	2017.4	2020.6	2031.4	2067.8	2121.4	2155.8	2162.2
25°	1945.6	1948.8	1967.0	1991.7	1997.0	2003.5	2021.7	2068.9	2124.7	2147.2	2136.5
27.5°	1914.4	1920.9	1944.5	1970.2	1976.7	1987.4	2011.0	2062.5	2109.6	2110.7	2071.0
30°	1882.3	1889.8	1917.7	1947.7	1958.4	1969.1	1998.1	2047.4	2073.2	2038.9	1969.1
32.5°	1845.8	1856.5	1884.4	1920.9	1933.8	1947.7	1976.7	2018.5	2008.8	1934.8	1835.1
35°	1799.7	1814.7	1846.9	1889.8	1901.6	1919.8	1940.2	1949.8	1906.9	1801.8	1689.2
37.5°	1742.8	1765.4	1802.9	1852.2	1865.1	1876.9	1882.3	1855.5	1769.7	1656.0	1539.1
40°	1677.4	1711.7	1752.5	1807.2	1820.1	1820.1	1800.8	1743.9	1635.6	1486.5	1356.7
42.5°	1598.1	1639.9	1691.4	1746.1	1758.9	1743.9	1697.8	1598.1	1474.7	1308.5	1171.2
45°	1501.5	1557.3	1615.2	1672.1	1678.5	1645.2	1562.7	1436.1	1283.8	1129.4	998.5
47.5°	1386.8	1459.7	1523.0	1587.3	1578.7	1523.0	1412.5	1268.8	1107.9	962.1	856.9
50°	1258.1	1343.9	1414.7	1475.8	1457.6	1380.3	1250.6	1100.4	940.6	816.2	729.3
52.5°	1120.8	1219.5	1290.2	1339.6	1314.9	1222.7	1080.0	936.3	805.5	691.8	633.9
55°	978.1	1077.9	1150.8	1189.4	1157.2	1057.5	917.0	786.2	662.8	588.8	554.5
57.5°	839.8	933.1	1001.7	1032.8	992.1	892.3	762.6	652.1	563.1	500.9	483.7
60°	706.8	782.9	848.4	872.0	828.0	735.7	624.2	536.3	470.8	427.9	419.4
62.5°	583.5	645.7	697.1	715.4	672.5	600.6	504.1	438.7	392.5	371.1	360.4
65°	481.6	518.0	570.6	567.4	541.6	475.1	404.3	358.2	328.2	314.2	307.8
67.5°	378.6	411.8	445.1	449.4	417.2	371.1	325.0	291.7	275.6	268.1	264.9
70°	292.8	317.5	337.8	332.5	315.3	286.4	257.4	239.2	232.7	229.5	229.5
72.5°	227.4	240.2	249.9	243.5	232.7	217.7	203.8	196.3	197.3	199.5	201.6
75°	175.9	179.1	181.3	174.8	172.7	163.0	162.0	163.0	169.5	175.9	179.1
77.5°	135.1	130.8	127.6	121.2	122.3	121.2	126.6	135.1	144.8	154.4	163.0
80°	104.0	94.4	86.9	80.4	83.7	89.0	99.7	112.6	125.5	136.2	146.9
82.5°	80.4	66.5	55.8	49.3	55.8	64.4	78.3	94.4	109.4	121.2	133.0
85°	62.2	46.1	33.2	26.8	33.2	46.1	61.1	79.4	95.5	108.3	120.1
87.5°	48.3	33.2	18.2	10.7	18.2	32.2	49.3	66.5	82.6	97.6	109.4
90°	38.6	22.5	8.6	2.1	9.7	22.5	38.6	55.8	71.9	87.9	99.7
92.5°	31.1	16.1	4.3	0.0	5.4	17.2	32.2	48.3	64.4	79.4	91.2
95°	25.7	12.9	3.2	0.0	4.3	12.9	25.7	41.8	56.8	71.9	81.5
97.5°	21.5	9.7	2.1	0.0	2.1	10.7	21.5	35.4	50.4	64.4	74.0
100°	18.2	8.6	2.1	0.0	2.1	8.6	18.2	31.1	44.0	56.8	66.5
102.5°	15.0	6.4	1.1	1.1	1.1	6.4	16.1	26.8	38.6	50.4	60.1
105°	13.9	5.4	1.1	1.1	1.1	5.4	13.9	23.6	34.3	45.0	53.6
107.5°	11.8	4.3	1.1	1.1	1.1	4.3	11.8	20.4	31.1	40.8	48.3
110°	9.7	4.3	1.1	1.1	1.1	4.3	9.7	18.2	26.8	35.4	42.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	8.6	3.2	1.1	1.1	1.1	3.2	8.6	16.1	23.6	32.2	38.6
115°	7.5	3.2	1.1	1.1	1.1	3.2	7.5	13.9	20.4	27.9	34.3
117.5°	6.4	3.2	1.1	1.1	1.1	2.1	6.4	11.8	18.2	24.7	31.1
120°	5.4	2.1	1.1	1.1	1.1	2.1	5.4	10.7	16.1	21.5	26.8
122.5°	5.4	2.1	1.1	1.1	1.1	2.1	4.3	8.6	13.9	18.2	23.6
125°	4.3	2.1	1.1	1.1	1.1	1.1	4.3	7.5	11.8	16.1	20.4
127.5°	4.3	2.1	1.1	1.1	1.1	1.1	3.2	6.4	9.7	13.9	18.2
130°	3.2	2.1	1.1	1.1	1.1	1.1	2.1	5.4	8.6	11.8	15.0
132.5°	3.2	2.1	1.1	1.1	1.1	1.1	2.1	4.3	6.4	9.7	12.9
135°	3.2	1.1	1.1	1.1	1.1	1.1	1.1	3.2	5.4	7.5	9.7
137.5°	2.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	4.3	5.4	8.6
140°	2.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2	4.3	6.4
142.5°	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2	5.4
145°	2.1	1.1	1.1	2.1	2.1	1.1	1.1	2.1	2.1	3.2	4.3
147.5°	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	3.2
150°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2
152.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
155°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4
2.5°	2087.1	2062.5	2075.3	2071.0	2075.3	2086.1	2085.0	2081.8	2083.9	2078.5	2073.2
5°	2082.8	2058.2	2071.0	2065.7	2071.0	2081.8	2079.6	2076.4	2079.6	2073.2	2067.8
7.5°	2077.5	2054.9	2070.0	2068.9	2078.5	2092.5	2093.6	2093.6	2101.1	2091.4	2087.1
10°	2077.5	2065.7	2086.1	2093.6	2118.2	2136.5	2138.6	2142.9	2155.8	2153.6	2142.9
12.5°	2100.0	2097.8	2127.9	2146.1	2168.6	2194.4	2208.3	2212.6	2221.2	2214.8	2210.5
15°	2129.0	2139.7	2172.9	2193.3	2218.0	2237.3	2240.5	2242.6	2249.1	2239.4	2231.9
17.5°	2167.6	2174.0	2200.8	2209.4	2225.5	2228.7	2224.4	2213.7	2213.7	2192.2	2185.8
20°	2185.8	2182.6	2193.3	2179.4	2172.9	2153.6	2135.4	2115.0	2113.9	2091.4	2089.3
22.5°	2169.7	2148.3	2125.7	2091.4	2076.4	2048.5	2023.8	2012.0	2004.5	1975.6	1968.1
25°	2112.9	2060.3	2027.1	1986.3	1949.8	1917.7	1894.1	1869.4	1845.8	1822.2	1811.5
27.5°	2014.2	1964.9	1911.2	1854.4	1804.0	1754.6	1715.0	1690.3	1667.8	1636.7	1620.6
30°	1893.0	1824.4	1765.4	1710.7	1628.1	1568.0	1534.8	1485.4	1468.3	1454.3	1424.3
32.5°	1750.4	1667.8	1587.3	1513.3	1428.6	1372.8	1328.9	1292.4	1281.7	1245.2	1236.6
35°	1592.7	1484.4	1393.2	1320.3	1259.1	1191.6	1155.1	1130.4	1109.0	1084.3	1080.0
37.5°	1407.1	1309.5	1206.6	1142.2	1094.0	1036.1	1008.2	991.0	981.4	963.1	959.9
40°	1220.5	1122.9	1052.1	987.8	957.8	926.7	906.3	898.8	894.5	888.0	881.6
42.5°	1051.1	965.3	914.9	872.0	859.1	844.1	838.7	843.0	838.7	836.6	835.5
45°	907.4	841.9	806.5	793.7	790.4	786.2	790.4	798.0	799.0	796.9	796.9
47.5°	776.5	745.4	730.4	732.5	737.9	741.1	748.6	758.3	760.4	755.1	757.2
50°	690.7	672.5	669.3	677.8	689.6	693.9	702.5	710.0	708.9	706.8	704.6
52.5°	610.3	604.9	613.5	622.1	634.9	637.1	640.3	643.5	642.4	638.1	636.0
55°	542.7	547.0	554.5	557.7	567.4	566.3	567.4	567.4	563.1	560.9	557.7
57.5°	481.6	482.6	486.9	488.0	493.4	491.2	490.1	488.0	481.6	480.5	477.3
60°	419.4	417.2	426.9	419.4	423.6	419.4	418.3	412.9	406.5	405.4	403.3
62.5°	360.4	356.1	362.5	359.3	361.4	357.1	355.0	348.6	343.2	342.1	341.1
65°	307.8	305.7	312.1	311.0	313.2	307.8	305.7	301.4	297.1	296.0	294.9
67.5°	263.8	269.2	272.4	272.4	274.6	273.5	268.1	267.1	266.0	261.7	261.7
70°	231.7	234.9	241.3	242.4	241.3	243.5	239.2	238.1	237.0	234.9	233.8
72.5°	205.9	210.2	216.6	217.7	216.6	216.6	214.5	213.4	213.4	210.2	210.2
75°	185.5	190.9	196.3	196.3	196.3	194.1	192.0	192.0	189.8	188.8	186.6
77.5°	168.4	174.8	179.1	178.0	177.0	174.8	174.8	171.6	168.4	168.4	166.2
80°	155.5	159.8	163.0	162.0	160.9	157.7	156.6	153.4	151.2	148.0	148.0
82.5°	141.6	146.9	149.1	148.0	145.9	142.6	141.6	139.4	137.3	136.2	134.1
85°	129.8	135.1	136.2	134.1	131.9	129.8	128.7	127.6	126.6	124.4	124.4
87.5°	118.0	123.3	123.3	122.3	120.1	119.0	118.0	116.9	115.8	114.8	113.7
90°	108.3	112.6	112.6	111.5	110.5	109.4	108.3	107.3	106.2	105.1	105.1
92.5°	98.7	103.0	103.0	101.9	100.8	99.7	99.7	98.7	97.6	96.5	95.5
95°	90.1	94.4	94.4	94.4	93.3	92.2	92.2	91.2	90.1	90.1	89.0
97.5°	81.5	85.8	85.8	85.8	84.7	83.7	83.7	82.6	82.6	82.6	81.5
100°	74.0	77.2	78.3	78.3	77.2	77.2	77.2	76.1	76.1	76.1	75.1
102.5°	66.5	69.7	71.9	71.9	71.9	70.8	70.8	70.8	70.8	70.8	69.7
105°	60.1	63.3	65.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
107.5°	54.7	57.9	60.1	61.1	62.2	62.2	63.3	63.3	63.3	63.3	63.3
110°	49.3	52.6	55.8	56.8	57.9	59.0	59.0	60.1	59.0	59.0	59.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	44.0	48.3	50.4	52.6	53.6	54.7	55.8	55.8	55.8	55.8	55.8
115°	39.7	44.0	46.1	48.3	50.4	51.5	51.5	52.6	52.6	52.6	51.5
117.5°	35.4	39.7	41.8	44.0	45.0	47.2	48.3	48.3	48.3	48.3	47.2
120°	32.2	35.4	37.5	39.7	41.8	42.9	44.0	44.0	44.0	44.0	44.0
122.5°	27.9	31.1	34.3	36.5	37.5	38.6	39.7	39.7	39.7	39.7	39.7
125°	24.7	27.9	30.0	32.2	33.2	35.4	35.4	35.4	35.4	35.4	35.4
127.5°	21.5	24.7	26.8	29.0	30.0	31.1	32.2	32.2	32.2	32.2	32.2
130°	18.2	21.5	23.6	25.7	26.8	27.9	27.9	29.0	29.0	29.0	29.0
132.5°	16.1	18.2	20.4	22.5	23.6	24.7	24.7	25.7	25.7	25.7	25.7
135°	12.9	16.1	17.2	19.3	20.4	21.5	21.5	22.5	22.5	22.5	22.5
137.5°	10.7	12.9	15.0	17.2	18.2	18.2	19.3	19.3	20.4	20.4	20.4
140°	8.6	9.7	12.9	13.9	15.0	16.1	17.2	17.2	17.2	17.2	17.2
142.5°	6.4	8.6	9.7	11.8	12.9	13.9	15.0	15.0	15.0	15.0	15.0
145°	5.4	6.4	7.5	9.7	10.7	11.8	12.9	12.9	12.9	12.9	12.9
147.5°	4.3	5.4	6.4	7.5	8.6	9.7	10.7	10.7	10.7	10.7	10.7
150°	3.2	4.3	5.4	5.4	6.4	7.5	8.6	9.7	9.7	9.7	9.7
152.5°	3.2	3.2	4.3	4.3	5.4	6.4	7.5	7.5	7.5	7.5	7.5
155°	2.1	3.2	3.2	3.2	4.3	4.3	5.4	6.4	6.4	6.4	6.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4
2.5°	2076.4	2080.7	2078.5	2075.3	2074.3	2079.6	2074.3	2049.6	2059.2	2060.3	2067.8
5°	2073.2	2076.4	2074.3	2072.1	2068.9	2075.3	2068.9	2043.2	2052.8	2053.9	2061.4
7.5°	2094.6	2095.7	2095.7	2090.3	2081.8	2085.0	2076.4	2047.4	2052.8	2052.8	2058.2
10°	2148.3	2150.4	2153.6	2139.7	2129.0	2120.4	2108.6	2073.2	2072.1	2063.5	2063.5
12.5°	2218.0	2212.6	2207.2	2200.8	2192.2	2181.5	2164.3	2122.5	2108.6	2094.6	2080.7
15°	2238.4	2236.2	2235.1	2231.9	2226.6	2223.3	2210.5	2168.6	2148.3	2131.1	2106.4
17.5°	2184.7	2189.0	2203.0	2204.0	2210.5	2223.3	2221.2	2192.2	2174.0	2166.5	2136.5
20°	2088.2	2089.3	2106.4	2113.9	2141.8	2163.3	2179.4	2176.1	2171.9	2180.4	2157.9
22.5°	1972.4	1979.9	1998.1	2009.9	2036.7	2061.4	2087.1	2101.1	2123.6	2159.0	2154.7
25°	1814.7	1824.4	1850.1	1869.4	1906.9	1944.5	1978.8	2003.5	2030.3	2097.8	2120.4
27.5°	1625.9	1641.0	1674.2	1693.5	1746.1	1784.7	1834.0	1882.3	1919.8	1997.0	2043.2
30°	1427.5	1440.4	1475.8	1502.6	1547.6	1600.2	1662.4	1731.0	1793.3	1871.5	1929.5
32.5°	1242.0	1255.9	1284.9	1308.5	1358.9	1402.9	1471.5	1556.2	1614.1	1722.5	1799.7
35°	1080.0	1092.9	1113.3	1133.7	1175.5	1220.5	1279.5	1362.1	1436.1	1548.7	1646.3
37.5°	966.3	968.5	980.3	992.1	1023.2	1057.5	1103.6	1176.6	1245.2	1366.4	1473.6
40°	884.8	884.8	891.3	894.5	908.4	928.8	957.8	1014.6	1071.4	1163.7	1294.5
42.5°	834.4	832.3	832.3	833.3	832.3	841.9	859.1	885.9	936.3	1012.5	1114.3
45°	796.9	792.6	789.4	781.9	777.6	777.6	778.6	788.3	817.3	866.6	949.2
47.5°	755.1	754.0	748.6	740.0	732.5	727.2	718.6	715.4	724.0	751.8	807.6
50°	706.8	701.4	696.1	689.6	681.1	675.7	659.6	660.7	653.2	666.0	695.0
52.5°	636.0	631.7	629.6	624.2	621.0	618.8	606.0	593.1	589.9	592.0	602.8
55°	557.7	559.9	551.3	555.6	554.5	544.8	539.5	529.8	526.6	525.5	530.9
57.5°	476.2	478.3	473.0	477.3	477.3	471.9	468.7	468.7	461.2	454.7	462.3
60°	402.2	397.9	401.1	406.5	406.5	403.3	401.1	401.1	395.8	393.6	399.0
62.5°	342.1	337.8	341.1	346.4	347.5	345.4	343.2	343.2	336.8	336.8	341.1
65°	296.0	297.1	296.0	300.3	300.3	301.4	299.2	297.1	289.6	292.8	291.7
67.5°	262.8	261.7	261.7	266.0	264.9	267.1	264.9	261.7	256.3	252.0	251.0
70°	234.9	233.8	233.8	236.0	237.0	237.0	236.0	233.8	226.3	222.0	218.8
72.5°	210.2	209.1	210.2	211.3	212.4	213.4	212.4	210.2	203.8	198.4	193.1
75°	187.7	186.6	189.8	189.8	190.9	190.9	192.0	190.9	185.5	179.1	172.7
77.5°	165.2	166.2	169.5	170.5	172.7	173.7	174.8	174.8	169.5	164.1	155.5
80°	146.9	149.1	151.2	152.3	154.4	157.7	158.7	159.8	155.5	150.2	140.5
82.5°	134.1	135.1	137.3	138.4	141.6	142.6	143.7	145.9	143.7	138.4	127.6
85°	123.3	124.4	126.6	126.6	128.7	130.8	131.9	133.0	131.9	126.6	115.8
87.5°	113.7	114.8	115.8	116.9	118.0	119.0	120.1	121.2	120.1	114.8	105.1
90°	105.1	105.1	106.2	106.2	107.3	108.3	110.5	110.5	109.4	105.1	95.5
92.5°	95.5	96.5	96.5	97.6	98.7	99.7	100.8	100.8	99.7	95.5	86.9
95°	89.0	89.0	90.1	90.1	91.2	91.2	92.2	92.2	91.2	86.9	78.3
97.5°	81.5	81.5	81.5	81.5	82.6	82.6	83.7	83.7	82.6	78.3	70.8
100°	75.1	75.1	75.1	75.1	75.1	76.1	76.1	76.1	75.1	70.8	63.3
102.5°	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	67.6	64.4	56.8
105°	66.5	66.5	66.5	65.4	65.4	65.4	64.4	64.4	61.1	57.9	51.5
107.5°	62.2	62.2	62.2	61.1	61.1	60.1	59.0	59.0	55.8	52.6	46.1
110°	59.0	59.0	59.0	57.9	56.8	55.8	54.7	53.6	50.4	46.1	40.8





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	55.8	55.8	54.7	54.7	53.6	52.6	50.4	49.3	46.1	41.8	36.5
115°	51.5	51.5	51.5	50.4	49.3	48.3	47.2	45.0	41.8	37.5	32.2
117.5°	47.2	47.2	47.2	46.1	45.0	44.0	42.9	40.8	37.5	33.2	29.0
120°	42.9	42.9	42.9	41.8	40.8	39.7	38.6	36.5	33.2	30.0	24.7
122.5°	39.7	39.7	38.6	37.5	36.5	35.4	34.3	32.2	30.0	25.7	21.5
125°	35.4	35.4	34.3	34.3	33.2	32.2	31.1	29.0	25.7	22.5	19.3
127.5°	32.2	31.1	31.1	31.1	30.0	29.0	26.8	25.7	22.5	19.3	16.1
130°	27.9	27.9	27.9	26.8	26.8	25.7	23.6	21.5	19.3	17.2	13.9
132.5°	24.7	24.7	24.7	24.7	23.6	22.5	20.4	19.3	17.2	13.9	11.8
135°	22.5	22.5	21.5	21.5	20.4	19.3	18.2	16.1	13.9	11.8	9.7
137.5°	19.3	19.3	19.3	18.2	18.2	17.2	15.0	13.9	12.9	10.7	8.6
140°	17.2	17.2	16.1	16.1	15.0	15.0	13.9	11.8	10.7	8.6	7.5
142.5°	15.0	15.0	13.9	13.9	12.9	12.9	11.8	10.7	8.6	7.5	5.4
145°	12.9	12.9	11.8	11.8	11.8	10.7	9.7	8.6	7.5	6.4	5.4
147.5°	10.7	10.7	10.7	9.7	9.7	8.6	8.6	7.5	6.4	5.4	4.3
150°	9.7	9.7	8.6	8.6	8.6	7.5	6.4	6.4	5.4	4.3	3.2
152.5°	7.5	7.5	7.5	7.5	6.4	6.4	5.4	5.4	4.3	3.2	3.2
155°	6.4	6.4	6.4	5.4	5.4	5.4	4.3	4.3	3.2	3.2	2.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4
2.5°	2064.6	2063.5	2073.2	2072.1	2059.2	2078.5	2091.4
5°	2059.2	2058.2	2066.7	2068.9	2054.9	2075.3	2089.3
7.5°	2054.9	2053.9	2063.5	2066.7	2052.8	2071.0	2086.1
10°	2056.0	2050.7	2059.2	2061.4	2048.5	2067.8	2080.7
12.5°	2063.5	2050.7	2053.9	2053.9	2042.1	2059.2	2073.2
15°	2081.8	2054.9	2050.7	2047.4	2032.4	2048.5	2062.5
17.5°	2102.1	2065.7	2050.7	2039.9	2021.7	2035.6	2050.7
20°	2122.5	2077.5	2052.8	2035.6	2011.0	2023.8	2034.6
22.5°	2132.2	2088.2	2054.9	2029.2	1998.1	2004.5	2016.3
25°	2119.3	2083.9	2050.7	2019.6	1982.0	1983.1	1992.7
27.5°	2072.1	2062.5	2041.0	2009.9	1969.1	1963.8	1971.3
30°	1991.7	2018.5	2019.6	1997.0	1954.1	1943.4	1946.6
32.5°	1879.1	1939.1	1974.5	1970.2	1932.7	1917.7	1919.8
35°	1749.3	1824.4	1901.6	1927.3	1900.5	1888.7	1884.4
37.5°	1593.8	1694.6	1797.5	1860.8	1856.5	1849.0	1844.7
40°	1422.2	1543.4	1665.6	1766.4	1797.5	1797.5	1799.7
42.5°	1238.8	1380.3	1514.4	1642.0	1715.0	1731.0	1737.5
45°	1061.8	1204.4	1350.3	1497.2	1594.8	1645.2	1663.5
47.5°	900.9	1044.6	1183.0	1343.9	1473.6	1539.1	1568.0
50°	763.6	870.9	1016.7	1176.6	1318.1	1398.6	1455.4
52.5°	649.9	733.6	861.2	1010.3	1153.0	1263.4	1316.0
55°	554.5	611.3	719.7	848.4	984.6	1099.3	1160.5
57.5°	474.1	519.1	593.1	700.4	815.1	928.8	994.2
60°	403.3	434.4	484.8	569.5	667.1	764.7	828.0
62.5°	342.1	362.5	395.8	458.0	534.1	610.3	669.3
65°	294.9	303.5	321.8	360.4	418.3	476.2	526.6
67.5°	248.8	254.2	268.1	291.7	320.7	362.5	395.8
70°	214.5	214.5	215.6	229.5	244.5	271.3	294.9
72.5°	186.6	183.4	177.0	180.2	183.4	198.4	213.4
75°	164.1	156.6	145.9	141.6	139.4	141.6	150.2
77.5°	144.8	134.1	121.2	110.5	101.9	98.7	106.2
80°	128.7	115.8	100.8	86.9	72.9	65.4	68.6
82.5°	115.8	99.7	83.7	67.6	51.5	40.8	40.8
85°	101.9	86.9	69.7	52.6	36.5	22.5	20.4
87.5°	92.2	76.1	57.9	41.8	25.7	11.8	6.4
90°	82.6	66.5	49.3	33.2	18.2	5.4	0.0
92.5°	74.0	59.0	42.9	26.8	12.9	3.2	0.0
95°	66.5	52.6	36.5	22.5	10.7	2.1	1.1
97.5°	59.0	46.1	32.2	18.2	7.5	2.1	1.1
100°	53.6	40.8	27.9	15.0	6.4	1.1	1.1
102.5°	47.2	36.5	23.6	12.9	5.4	1.1	1.1
105°	41.8	32.2	20.4	10.7	4.3	1.1	1.1
107.5°	37.5	27.9	18.2	9.7	4.3	1.1	1.1
110°	33.2	24.7	16.1	8.6	3.2	1.1	1.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-60HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	30.0	21.5	13.9	7.5	2.1	1.1	1.1
115°	25.7	19.3	11.8	6.4	2.1	1.1	1.1
117.5°	22.5	16.1	10.7	5.4	2.1	1.1	1.1
120°	19.3	13.9	8.6	4.3	1.1	1.1	1.1
122.5°	17.2	11.8	7.5	4.3	1.1	1.1	1.1
125°	15.0	10.7	6.4	3.2	1.1	1.1	1.1
127.5°	12.9	8.6	5.4	2.1	1.1	1.1	1.1
130°	10.7	7.5	4.3	2.1	1.1	1.1	1.1
132.5°	8.6	6.4	4.3	2.1	1.1	1.1	1.1
135°	7.5	5.4	3.2	2.1	1.1	1.1	1.1
137.5°	6.4	4.3	2.1	2.1	2.1	1.1	1.1
140°	5.4	3.2	2.1	2.1	2.1	2.1	1.1
142.5°	4.3	3.2	2.1	2.1	2.1	2.1	1.1
145°	3.2	2.1	2.1	2.1	2.1	2.1	1.1
147.5°	3.2	2.1	2.1	2.1	2.1	2.1	1.1
150°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
152.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
155°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)