

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: **8SNLED-LD5-60SL-LN-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 (P33519)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

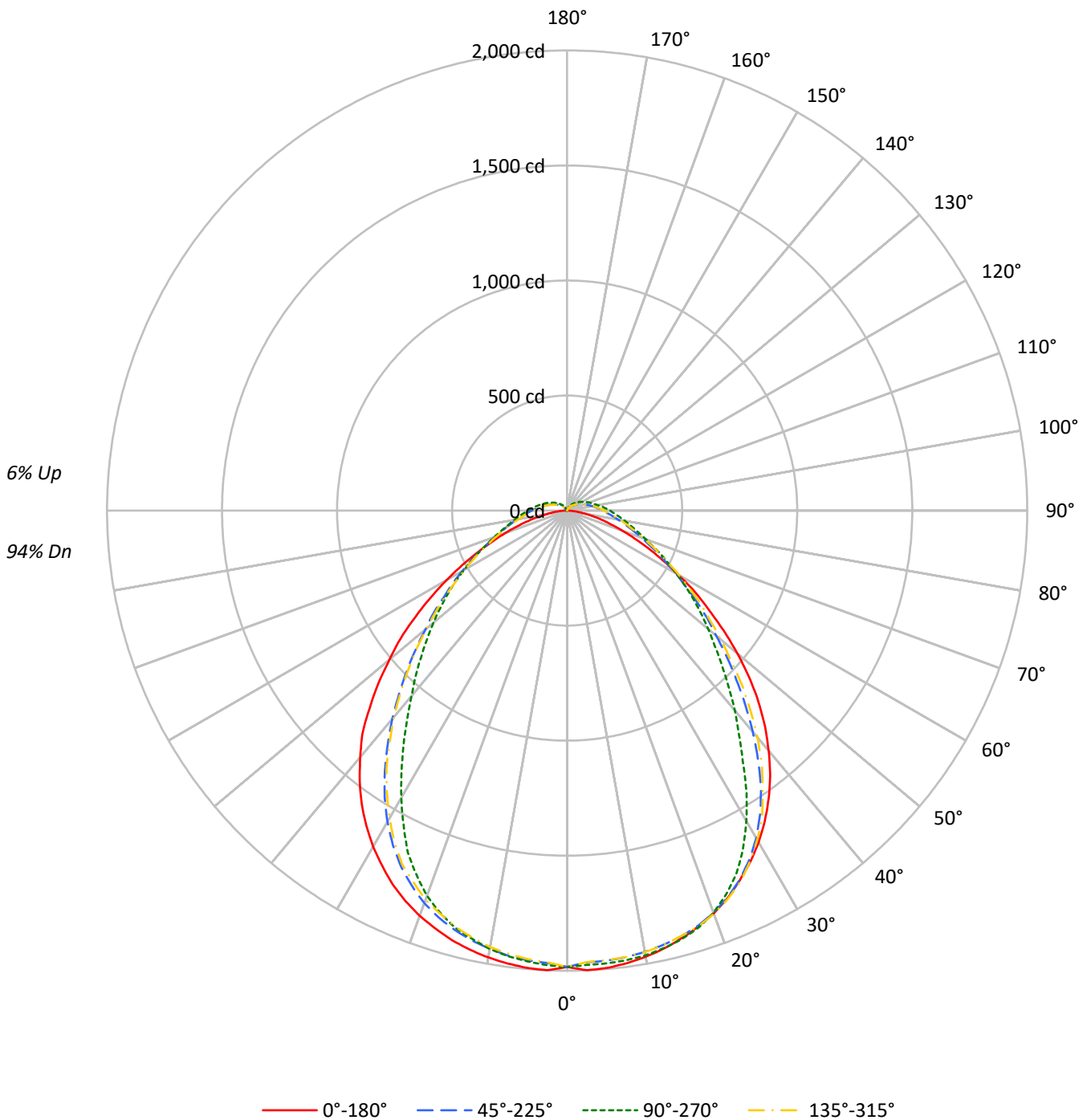
Lumens per Lamp: N/A  
Luminaire Lumens: 5019.0 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 42  
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	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79				
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67				
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57				
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50				
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44				
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39				
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31				
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28				
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26				

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

	0°	90°	180°	270°
0°	8013	8013	8013	8013
5°	8081	7758	8081	7724
10°	8056	7552	8070	7447
15°	8016	7326	8052	7136
20°	7966	7036	8013	6739
25°	7851	6606	7938	6217
30°	7697	5973	7798	5530
35°	7451	5198	7595	4840
40°	7094	4546	7281	4218
45°	6616	3952	6831	3725
50°	5957	3473	6220	3298
55°	5171	3067	5548	2912
60°	4369	2692	4763	2538
65°	3602	2380	3966	2207
70°	2892	2113	3237	1954
75°	2301	1951	2590	1795
80°	1701	1882	2005	1720
85°	1117	1893	1503	1739



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.0	3.7
10°-20°	539.1	10.7
20°-30°	799.0	15.9
30°-40°	887.7	17.7
40°-50°	804.7	16.0
50°-60°	623.5	12.4
60°-70°	423.4	8.4
70°-80°	269.4	5.4
80°-90°	172.2	3.4
90°-100°	116.1	2.3
100°-110°	79.5	1.6
110°-120°	53.1	1.1
120°-130°	33.0	0.7
130°-140°	18.3	0.4
140°-150°	8.6	0.2
150°-160°	3.1	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1526.2	30.4
0°-40°	2413.9	48.1
0°-60°	3842.1	76.6
0°-90°	4707.1	93.8
90°-120°	248.7	5.0
90°-150°	308.6	6.1
90°-180°	312.0	6.2
0°-180°	5019.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1983	1983	1983	1983	1983	
5°	1995	1976	1995	1967	1995	190
15°	1924	1928	1933	1877	1924	543
25°	1774	1741	1793	1638	1774	817
35°	1527	1331	1557	1239	1527	953
45°	1176	951	1214	897	1176	903
55°	750	669	805	635	750	676
65°	389	449	429	417	389	390
75°	156	300	176	276	156	168
85°	28	216	38	198	28	34
90°	0	186	2	170	0	2
95°	1	159	0	148	1	1
105°	1	117	0	110	1	1
115°	1	88	0	82	1	1
125°	1	66	1	58	1	1
135°	1	46	1	37	1	1
145°	1	30	1	21	1	1
155°	1	16	1	8	1	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1999.6	1997.4	1995.2	1991.9	1995.2	2003.9	1998.5	1986.5	1984.3	1964.7	1973.4
5°	1995.2	1991.9	1989.8	1986.5	1990.9	2001.8	1996.3	1985.4	1982.1	1963.6	1973.4
7.5°	1984.3	1982.1	1978.9	1978.9	1983.2	1994.1	1989.8	1977.8	1975.6	1957.0	1967.9
10°	1969.0	1967.9	1965.8	1965.8	1970.1	1983.2	1977.8	1966.9	1964.7	1947.2	1959.2
12.5°	1949.4	1950.5	1947.2	1947.2	1953.8	1966.9	1962.5	1950.5	1948.3	1933.0	1945.0
15°	1924.3	1925.4	1923.2	1924.3	1930.9	1946.1	1940.7	1929.8	1927.6	1915.6	1925.4
17.5°	1895.9	1897.0	1897.0	1895.9	1903.6	1918.9	1914.5	1904.7	1901.4	1891.6	1903.6
20°	1863.2	1863.2	1863.2	1863.2	1871.9	1887.2	1881.8	1874.1	1867.6	1859.9	1869.8
22.5°	1822.9	1821.8	1822.9	1826.1	1834.9	1846.9	1843.6	1834.9	1825.0	1820.7	1828.3
25°	1773.8	1777.0	1778.1	1781.4	1792.3	1802.1	1798.9	1790.1	1774.9	1771.6	1773.8
27.5°	1722.5	1724.7	1728.0	1726.9	1742.1	1752.0	1745.4	1737.8	1716.0	1712.7	1710.5
30°	1664.7	1668.0	1670.1	1669.0	1681.0	1692.0	1685.4	1675.6	1646.1	1644.0	1626.5
32.5°	1599.2	1602.5	1604.7	1604.7	1622.1	1626.5	1614.5	1600.3	1568.7	1561.0	1545.8
35°	1527.2	1530.5	1531.6	1531.6	1549.0	1548.0	1532.7	1513.0	1478.1	1468.3	1442.1
37.5°	1449.8	1452.0	1453.0	1459.6	1467.2	1460.7	1441.1	1416.0	1389.8	1362.5	1334.1
40°	1362.5	1365.8	1368.0	1372.3	1380.0	1372.3	1344.0	1313.4	1285.1	1254.5	1226.1
42.5°	1273.1	1282.9	1280.7	1279.6	1284.0	1263.2	1241.4	1206.5	1178.1	1146.5	1118.2
45°	1176.0	1174.9	1180.3	1182.5	1181.4	1164.0	1133.4	1101.8	1073.4	1040.7	1016.7
47.5°	1073.4	1072.3	1076.7	1078.9	1072.3	1053.8	1029.8	993.8	969.8	941.4	922.9
50°	965.4	965.4	972.0	965.4	962.2	943.6	924.0	888.0	869.4	844.3	833.4
52.5°	857.4	867.2	860.7	858.5	855.2	836.7	821.4	792.0	776.7	765.8	752.7
55°	750.5	761.4	757.1	753.8	752.7	737.4	723.3	701.4	691.6	684.0	676.3
57.5°	660.0	658.9	656.7	653.4	654.5	642.5	628.3	616.3	612.0	608.7	610.9
60°	555.3	564.0	560.7	561.8	562.9	560.7	548.7	541.1	542.2	543.3	546.5
62.5°	469.1	476.7	482.2	477.8	480.0	483.3	476.7	474.5	478.9	483.3	487.6
65°	389.4	397.1	402.5	401.4	408.0	414.5	413.4	415.6	425.4	430.9	436.4
67.5°	317.4	325.1	332.7	333.8	343.6	353.4	357.8	365.4	376.4	384.0	390.5
70°	255.3	261.8	270.5	276.0	289.1	302.2	309.8	325.1	331.6	342.5	346.9
72.5°	199.6	205.1	217.1	230.2	241.1	257.4	272.7	285.8	295.6	307.6	313.1
75°	156.0	158.2	171.3	186.5	201.8	220.4	236.7	250.9	264.0	276.0	284.7
77.5°	114.5	117.8	129.8	150.5	168.0	187.6	206.2	221.4	235.6	247.6	259.6
80°	79.6	86.2	99.3	120.0	139.6	161.4	178.9	196.4	211.6	223.6	235.6
82.5°	51.3	56.7	75.3	96.0	116.7	138.5	157.1	174.5	190.9	204.0	214.9
85°	28.4	36.0	54.5	76.4	97.1	118.9	138.5	156.0	172.4	184.4	195.3
87.5°	10.9	21.8	39.3	60.0	80.7	101.5	122.2	138.5	154.9	168.0	177.8
90°	0.0	13.1	29.5	50.2	70.9	91.6	111.3	128.7	144.0	156.0	166.9
92.5°	1.1	8.7	22.9	40.4	60.0	79.6	98.2	115.6	130.9	142.9	152.7
95°	1.1	6.5	18.5	34.9	52.4	70.9	88.4	104.7	118.9	130.9	140.7
97.5°	1.1	4.4	15.3	30.5	45.8	64.4	80.7	96.0	109.1	121.1	128.7
100°	1.1	4.4	13.1	26.2	41.5	57.8	73.1	88.4	100.4	110.2	118.9
102.5°	1.1	3.3	10.9	22.9	37.1	51.3	66.5	80.7	91.6	101.5	110.2
105°	1.1	3.3	9.8	19.6	32.7	46.9	60.0	73.1	85.1	93.8	101.5
107.5°	1.1	2.2	8.7	16.4	28.4	42.5	55.6	66.5	77.5	86.2	93.8
110°	1.1	2.2	7.6	15.3	25.1	38.2	50.2	61.1	70.9	79.6	86.2



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CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	2.2	6.5	14.2	22.9	33.8	45.8	55.6	65.5	73.1	79.6
115°	1.1	2.2	6.5	13.1	20.7	29.5	40.4	51.3	58.9	67.6	73.1
117.5°	1.1	2.2	5.5	10.9	19.6	27.3	37.1	45.8	54.5	62.2	67.6
120°	1.1	2.2	5.5	9.8	17.5	25.1	32.7	41.5	50.2	55.6	61.1
122.5°	1.1	2.2	4.4	9.8	15.3	22.9	29.5	37.1	44.7	51.3	56.7
125°	1.1	2.2	4.4	8.7	14.2	20.7	27.3	32.7	40.4	45.8	51.3
127.5°	1.1	2.2	4.4	7.6	13.1	18.5	25.1	30.5	36.0	41.5	45.8
130°	1.1	2.2	3.3	6.5	12.0	16.4	21.8	28.4	32.7	37.1	41.5
132.5°	1.1	2.2	3.3	6.5	9.8	14.2	19.6	25.1	29.5	33.8	37.1
135°	1.1	2.2	3.3	5.5	8.7	13.1	16.4	21.8	26.2	30.5	33.8
137.5°	1.1	2.2	3.3	5.5	7.6	10.9	14.2	18.5	22.9	26.2	30.5
140°	1.1	2.2	3.3	4.4	6.5	9.8	13.1	15.3	19.6	22.9	26.2
142.5°	1.1	2.2	3.3	4.4	6.5	8.7	10.9	13.1	16.4	19.6	22.9
145°	1.1	2.2	3.3	4.4	5.5	7.6	9.8	12.0	13.1	16.4	18.5
147.5°	1.1	2.2	3.3	4.4	4.4	6.5	8.7	9.8	12.0	13.1	15.3
150°	1.1	2.2	3.3	3.3	4.4	5.5	7.6	8.7	9.8	12.0	13.1
152.5°	1.1	2.2	3.3	3.3	4.4	5.5	6.5	7.6	8.7	9.8	10.9
155°	1.1	2.2	3.3	3.3	3.3	4.4	5.5	6.5	7.6	8.7	9.8
157.5°	2.2	2.2	2.2	3.3	3.3	4.4	4.4	5.5	6.5	6.5	7.6
160°	2.2	2.2	2.2	3.3	3.3	3.3	4.4	4.4	5.5	5.5	6.5
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1971.2	1974.5	1984.3	1984.3	1982.1	1979.9	1979.9	1976.7	1978.9	1983.2	1981.0
5°	1971.2	1974.5	1984.3	1984.3	1982.1	1979.9	1978.9	1975.6	1978.9	1983.2	1981.0
7.5°	1964.7	1969.0	1978.9	1978.9	1976.7	1975.6	1973.4	1971.2	1974.5	1978.9	1976.7
10°	1955.9	1960.3	1970.1	1970.1	1967.9	1967.9	1964.7	1962.5	1966.9	1970.1	1969.0
12.5°	1942.9	1948.3	1957.0	1955.9	1953.8	1954.9	1951.6	1947.2	1951.6	1954.9	1955.9
15°	1924.3	1930.9	1939.6	1937.4	1934.1	1936.3	1930.9	1927.6	1930.9	1937.4	1936.3
17.5°	1900.3	1904.7	1911.2	1911.2	1907.9	1905.8	1903.6	1900.3	1902.5	1906.9	1907.9
20°	1866.5	1871.9	1875.2	1871.9	1870.9	1867.6	1863.2	1859.9	1864.3	1870.9	1871.9
22.5°	1821.8	1822.9	1830.5	1822.9	1817.4	1816.3	1811.9	1805.4	1811.9	1817.4	1818.5
25°	1766.1	1771.6	1768.3	1755.2	1755.2	1746.5	1744.3	1741.0	1742.1	1752.0	1756.3
27.5°	1695.2	1697.4	1688.7	1677.8	1668.0	1662.5	1654.9	1656.0	1656.0	1669.0	1673.4
30°	1617.8	1605.8	1598.1	1580.7	1573.0	1560.0	1557.8	1557.8	1555.6	1562.1	1581.8
32.5°	1525.0	1508.7	1496.7	1480.3	1467.2	1454.1	1447.6	1450.9	1449.8	1466.1	1472.7
35°	1423.6	1413.8	1388.7	1368.0	1360.3	1340.7	1340.7	1330.9	1337.4	1356.0	1363.6
37.5°	1316.7	1301.4	1280.7	1257.8	1252.3	1237.1	1231.6	1226.1	1240.3	1243.6	1251.2
40°	1207.6	1193.4	1173.8	1152.0	1152.0	1133.4	1133.4	1133.4	1134.5	1141.1	1155.2
42.5°	1104.0	1088.7	1071.2	1056.0	1053.8	1039.6	1039.6	1038.5	1040.7	1046.2	1059.2
45°	1003.6	991.6	973.1	965.4	966.5	951.2	954.5	951.2	955.6	961.1	965.4
47.5°	910.9	903.2	895.6	884.7	881.4	880.3	874.9	870.5	878.2	878.2	884.7
50°	824.7	820.3	816.0	809.4	810.5	806.2	799.6	799.6	805.1	806.2	810.5
52.5°	749.4	744.0	738.5	739.6	740.7	738.5	735.3	732.0	735.3	737.4	742.9
55°	674.2	669.8	675.3	673.1	675.3	673.1	670.9	668.7	674.2	670.9	676.3
57.5°	606.5	610.9	613.1	608.7	612.0	609.8	610.9	607.6	612.0	614.2	613.1
60°	544.3	550.9	547.6	548.7	553.1	550.9	546.5	549.8	554.2	555.3	554.2
62.5°	487.6	495.3	498.5	496.3	497.4	495.3	498.5	494.2	499.6	501.8	498.5
65°	436.4	445.1	447.3	447.3	447.3	445.1	448.4	449.4	451.6	451.6	449.4
67.5°	392.7	400.4	402.5	404.7	402.5	400.4	400.4	401.4	405.8	408.0	405.8
70°	353.4	361.1	362.2	362.2	363.3	365.4	361.1	363.3	366.5	367.6	366.5
72.5°	319.6	327.3	329.4	328.4	329.4	330.5	330.5	328.4	331.6	333.8	333.8
75°	292.4	296.7	298.9	298.9	300.0	301.1	301.1	300.0	302.2	303.3	304.4
77.5°	267.3	270.5	273.8	273.8	274.9	273.8	276.0	276.0	277.1	278.2	279.3
80°	242.2	246.5	248.7	249.8	252.0	253.1	253.1	253.1	254.2	255.3	255.3
82.5°	222.5	225.8	229.1	232.4	232.4	233.4	233.4	233.4	234.5	234.5	235.6
85°	202.9	207.3	210.5	212.7	213.8	214.9	214.9	216.0	216.0	216.0	217.1
87.5°	185.4	190.9	193.1	195.3	196.4	198.5	198.5	198.5	199.6	199.6	199.6
90°	173.4	178.9	181.1	183.3	184.4	185.4	185.4	186.5	186.5	187.6	187.6
92.5°	159.3	164.7	169.1	169.1	170.2	172.4	171.3	171.3	172.4	173.4	173.4
95°	148.4	152.7	156.0	157.1	158.2	158.2	158.2	159.3	158.2	159.3	159.3
97.5°	135.3	139.6	142.9	145.1	146.2	146.2	146.2	147.3	146.2	147.3	147.3
100°	124.4	128.7	132.0	133.1	135.3	135.3	135.3	135.3	135.3	135.3	136.4
102.5°	115.6	120.0	122.2	123.3	124.4	125.5	125.5	125.5	125.5	126.5	126.5
105°	106.9	111.3	113.5	114.5	115.6	116.7	116.7	116.7	117.8	117.8	116.7
107.5°	99.3	102.5	104.7	106.9	108.0	108.0	109.1	109.1	109.1	109.1	109.1
110°	91.6	94.9	98.2	100.4	100.4	101.5	101.5	102.5	102.5	101.5	102.5





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	84.0	88.4	90.5	92.7	93.8	94.9	94.9	94.9	94.9	94.9	94.9
115°	77.5	81.8	84.0	86.2	87.3	88.4	88.4	88.4	88.4	88.4	88.4
117.5°	72.0	76.4	78.5	79.6	80.7	81.8	82.9	82.9	82.9	82.9	81.8
120°	66.5	69.8	72.0	74.2	75.3	76.4	76.4	76.4	76.4	76.4	76.4
122.5°	61.1	64.4	66.5	68.7	69.8	70.9	70.9	70.9	70.9	70.9	70.9
125°	55.6	58.9	61.1	63.3	64.4	65.5	65.5	65.5	65.5	65.5	65.5
127.5°	50.2	53.5	56.7	57.8	58.9	60.0	60.0	60.0	61.1	60.0	60.0
130°	44.7	48.0	51.3	52.4	53.5	54.5	55.6	55.6	55.6	55.6	54.5
132.5°	40.4	43.6	45.8	46.9	49.1	49.1	50.2	50.2	50.2	50.2	49.1
135°	37.1	39.3	41.5	42.5	44.7	44.7	44.7	45.8	45.8	44.7	43.6
137.5°	32.7	34.9	37.1	38.2	39.3	40.4	40.4	41.5	40.4	40.4	40.4
140°	30.5	31.6	33.8	34.9	36.0	36.0	36.0	37.1	37.1	36.0	36.0
142.5°	26.2	28.4	30.5	31.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7
145°	21.8	25.1	26.2	28.4	28.4	29.5	29.5	29.5	29.5	29.5	28.4
147.5°	18.5	20.7	24.0	25.1	25.1	26.2	26.2	26.2	26.2	26.2	25.1
150°	14.2	16.4	19.6	21.8	21.8	22.9	22.9	22.9	22.9	21.8	21.8
152.5°	12.0	14.2	15.3	17.5	18.5	18.5	18.5	19.6	18.5	18.5	18.5
155°	10.9	12.0	13.1	14.2	15.3	16.4	16.4	16.4	16.4	15.3	15.3
157.5°	8.7	9.8	10.9	12.0	13.1	14.2	14.2	14.2	14.2	14.2	13.1
160°	6.5	7.6	8.7	8.7	9.8	10.9	12.0	10.9	10.9	10.9	10.9
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: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1978.9	1977.8	1981.0	1975.6	1959.2	1963.6	1961.4	1971.2	1973.4	1975.6	1985.4
5°	1978.9	1977.8	1979.9	1975.6	1958.1	1961.4	1959.2	1969.0	1971.2	1972.3	1982.1
7.5°	1974.5	1973.4	1976.7	1971.2	1952.7	1957.0	1953.8	1963.6	1964.7	1965.8	1974.5
10°	1965.8	1964.7	1966.9	1962.5	1943.9	1948.3	1943.9	1953.8	1953.8	1955.9	1962.5
12.5°	1952.7	1950.5	1954.9	1949.4	1928.7	1934.1	1931.9	1938.5	1939.6	1940.7	1947.2
15°	1934.1	1931.9	1935.2	1931.9	1913.4	1914.5	1911.2	1921.0	1922.1	1919.9	1926.5
17.5°	1906.9	1904.7	1911.2	1909.0	1890.5	1894.9	1893.8	1895.9	1899.2	1893.8	1902.5
20°	1873.0	1875.2	1877.4	1878.5	1864.3	1864.3	1863.2	1867.6	1870.9	1866.5	1873.0
22.5°	1822.9	1828.3	1834.9	1837.0	1827.2	1826.1	1832.7	1830.5	1833.8	1831.6	1835.9
25°	1759.6	1770.5	1777.0	1783.6	1778.1	1780.3	1790.1	1792.3	1792.3	1791.2	1795.6
27.5°	1681.0	1695.2	1707.2	1721.4	1716.0	1720.3	1736.7	1738.9	1743.2	1738.9	1747.6
30°	1587.2	1600.3	1623.2	1644.0	1646.1	1652.7	1675.6	1677.8	1689.8	1685.4	1688.7
32.5°	1493.4	1500.0	1526.1	1546.9	1560.0	1576.3	1601.4	1605.8	1622.1	1625.4	1625.4
35°	1375.6	1394.1	1418.1	1447.6	1464.0	1481.4	1515.2	1521.8	1545.8	1553.4	1562.1
37.5°	1276.3	1293.8	1309.1	1339.6	1369.1	1388.7	1416.0	1432.3	1457.4	1471.6	1482.5
40°	1170.5	1184.7	1201.1	1231.6	1256.7	1286.1	1313.4	1333.1	1364.7	1381.1	1395.2
42.5°	1070.2	1081.1	1098.5	1120.3	1146.5	1179.2	1205.4	1228.3	1262.1	1285.1	1301.4
45°	980.7	987.2	1002.5	1018.9	1041.8	1075.6	1100.7	1130.1	1157.4	1181.4	1201.1
47.5°	896.7	905.4	913.1	924.0	944.7	965.4	994.9	1023.2	1050.5	1076.7	1096.3
50°	819.2	819.2	831.2	838.9	853.1	871.6	894.5	914.2	948.0	966.5	991.6
52.5°	744.0	748.3	754.9	759.3	770.2	782.2	800.7	817.1	845.4	862.9	886.9
55°	677.4	681.8	685.1	687.3	693.8	708.0	714.5	727.6	747.3	761.4	782.2
57.5°	614.2	616.3	619.6	620.7	621.8	630.5	636.0	639.3	658.9	673.1	690.5
60°	556.3	556.3	559.6	558.5	557.4	561.8	560.7	564.0	576.0	584.7	592.3
62.5°	501.8	501.8	502.9	500.7	499.6	499.6	495.3	498.5	501.8	502.9	508.3
65°	451.6	457.1	452.7	453.8	447.3	445.1	442.9	436.4	435.3	430.9	433.1
67.5°	406.9	411.3	406.9	406.9	401.4	397.1	391.6	380.7	377.4	368.7	366.5
70°	370.9	367.6	369.8	366.5	360.0	354.5	346.9	338.2	327.3	316.4	308.7
72.5°	336.0	336.0	333.8	330.5	327.3	316.4	307.6	297.8	284.7	270.5	259.6
75°	302.2	303.3	303.3	300.0	294.5	284.7	274.9	260.7	246.5	230.2	216.0
77.5°	278.2	278.2	278.2	272.7	267.3	258.5	246.5	231.3	216.0	196.4	180.0
80°	255.3	254.2	254.2	247.6	242.2	232.4	220.4	205.1	188.7	168.0	149.5
82.5°	236.7	235.6	233.4	228.0	220.4	210.5	198.5	182.2	164.7	146.2	123.3
85°	217.1	216.0	213.8	208.4	200.7	192.0	178.9	162.5	145.1	124.4	102.5
87.5°	199.6	198.5	195.3	192.0	183.3	173.4	160.4	145.1	126.5	106.9	85.1
90°	187.6	185.4	183.3	178.9	171.3	160.4	147.3	130.9	112.4	92.7	70.9
92.5°	173.4	172.4	169.1	164.7	158.2	147.3	134.2	118.9	100.4	81.8	61.1
95°	159.3	158.2	156.0	151.6	145.1	135.3	123.3	108.0	90.5	72.0	53.5
97.5°	146.2	146.2	142.9	139.6	132.0	124.4	112.4	98.2	81.8	65.5	48.0
100°	135.3	135.3	132.0	127.6	122.2	114.5	102.5	89.5	74.2	58.9	41.5
102.5°	125.5	124.4	122.2	117.8	112.4	104.7	93.8	81.8	67.6	52.4	37.1
105°	116.7	115.6	113.5	109.1	104.7	96.0	87.3	75.3	61.1	46.9	32.7
107.5°	108.0	106.9	105.8	101.5	96.0	88.4	79.6	67.6	55.6	42.5	29.5
110°	100.4	99.3	97.1	92.7	87.3	80.7	72.0	62.2	50.2	38.2	26.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	93.8	92.7	90.5	86.2	81.8	74.2	66.5	55.6	45.8	34.9	22.9
115°	87.3	86.2	84.0	79.6	74.2	67.6	60.0	51.3	40.4	30.5	20.7
117.5°	80.7	79.6	77.5	74.2	68.7	62.2	54.5	45.8	36.0	28.4	18.5
120°	75.3	73.1	70.9	67.6	62.2	56.7	49.1	41.5	32.7	25.1	16.4
122.5°	69.8	67.6	65.5	62.2	56.7	51.3	43.6	37.1	30.5	22.9	15.3
125°	63.3	62.2	60.0	56.7	51.3	45.8	40.4	33.8	27.3	20.7	13.1
127.5°	57.8	56.7	54.5	50.2	45.8	41.5	36.0	30.5	24.0	17.5	12.0
130°	53.5	51.3	49.1	45.8	42.5	38.2	32.7	27.3	21.8	15.3	10.9
132.5°	48.0	45.8	43.6	41.5	38.2	33.8	29.5	24.0	19.6	14.2	9.8
135°	43.6	41.5	39.3	37.1	33.8	30.5	26.2	21.8	17.5	13.1	8.7
137.5°	38.2	37.1	36.0	33.8	30.5	27.3	24.0	18.5	15.3	12.0	7.6
140°	34.9	33.8	32.7	29.5	27.3	24.0	20.7	16.4	13.1	9.8	6.5
142.5°	31.6	30.5	28.4	26.2	24.0	21.8	17.5	15.3	12.0	8.7	6.5
145°	27.3	26.2	25.1	22.9	20.7	17.5	15.3	13.1	10.9	7.6	5.5
147.5°	25.1	24.0	21.8	19.6	17.5	15.3	14.2	12.0	8.7	6.5	4.4
150°	20.7	19.6	18.5	16.4	15.3	14.2	12.0	9.8	7.6	5.5	4.4
152.5°	17.5	16.4	15.3	15.3	13.1	12.0	9.8	8.7	6.5	5.5	3.3
155°	15.3	15.3	14.2	13.1	10.9	9.8	8.7	6.5	5.5	4.4	3.3
157.5°	13.1	12.0	10.9	10.9	9.8	8.7	6.5	5.5	4.4	4.4	3.3
160°	10.9	9.8	9.8	8.7	7.6	6.5	5.5	5.5	4.4	3.3	3.3
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: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1986.5	1974.5	1985.4	1999.6	1999.6	1997.4	1995.2	1999.6	2010.5	2006.1	1993.0
5°	1983.2	1971.2	1981.0	1995.2	1995.2	1991.9	1989.8	1993.0	2005.0	1999.6	1987.6
7.5°	1976.7	1965.8	1972.3	1985.4	1985.4	1982.1	1979.9	1984.3	1994.1	1988.7	1975.6
10°	1964.7	1952.7	1960.3	1972.3	1971.2	1969.0	1965.8	1971.2	1979.9	1972.3	1957.0
12.5°	1949.4	1937.4	1943.9	1954.9	1953.8	1949.4	1947.2	1950.5	1958.1	1953.8	1937.4
15°	1928.7	1916.7	1922.1	1933.0	1929.8	1926.5	1922.1	1923.2	1933.0	1925.4	1907.9
17.5°	1903.6	1890.5	1894.9	1904.7	1901.4	1898.1	1892.7	1893.8	1904.7	1893.8	1875.2
20°	1873.0	1858.9	1862.1	1874.1	1868.7	1863.2	1857.8	1857.8	1868.7	1856.7	1835.9
22.5°	1840.3	1826.1	1828.3	1837.0	1832.7	1822.9	1817.4	1820.7	1826.1	1810.9	1789.0
25°	1799.9	1781.4	1784.7	1793.4	1790.1	1777.0	1771.6	1773.8	1771.6	1759.6	1736.7
27.5°	1753.0	1733.4	1735.6	1741.0	1736.7	1724.7	1718.1	1719.2	1714.9	1699.6	1673.4
30°	1694.1	1684.3	1683.2	1686.5	1680.0	1668.0	1660.3	1658.1	1657.0	1635.2	1603.6
32.5°	1634.1	1625.4	1620.0	1624.3	1616.7	1604.7	1591.6	1591.6	1580.7	1560.0	1532.7
35°	1573.0	1558.9	1553.4	1556.7	1548.0	1532.7	1521.8	1516.3	1500.0	1473.8	1444.3
37.5°	1494.5	1484.7	1478.1	1481.4	1471.6	1460.7	1440.0	1434.5	1417.1	1381.1	1344.0
40°	1409.4	1401.8	1395.2	1398.5	1387.6	1371.2	1352.7	1344.0	1324.3	1284.0	1254.5
42.5°	1317.8	1314.5	1306.9	1318.9	1297.1	1280.7	1262.1	1248.0	1228.3	1184.7	1150.9
45°	1220.7	1228.3	1210.9	1214.1	1200.0	1185.8	1166.1	1145.4	1125.8	1084.3	1046.2
47.5°	1118.2	1123.6	1111.6	1113.8	1098.5	1085.4	1068.0	1041.8	1020.0	984.0	950.2
50°	1012.3	1010.2	1010.2	1008.0	996.0	979.6	962.2	938.2	916.3	883.6	855.2
52.5°	900.0	904.3	906.5	912.0	896.7	886.9	859.6	838.9	822.5	788.7	764.7
55°	792.0	807.2	802.9	805.1	787.6	780.0	758.2	741.8	717.8	698.2	682.9
57.5°	693.8	697.1	699.3	702.5	694.9	679.6	662.2	649.1	630.5	614.2	603.3
60°	598.9	598.9	600.0	605.4	597.8	584.7	571.6	561.8	548.7	538.9	532.3
62.5°	509.4	517.1	518.2	513.8	504.0	497.4	488.7	483.3	474.5	471.3	469.1
65°	426.5	426.5	426.5	428.7	423.3	418.9	413.4	412.4	415.6	411.3	413.4
67.5°	356.7	353.4	351.3	352.4	350.2	348.0	346.9	350.2	356.7	356.7	362.2
70°	296.7	290.2	285.8	285.8	285.8	286.9	290.2	296.7	307.6	312.0	319.6
72.5°	247.6	233.4	226.9	226.9	228.0	232.4	242.2	254.2	264.0	272.7	282.5
75°	200.7	186.5	176.7	175.6	177.8	184.4	198.5	209.4	225.8	237.8	249.8
77.5°	162.5	145.1	133.1	132.0	135.3	145.1	162.5	176.7	195.3	208.4	221.4
80°	129.8	110.2	100.4	93.8	99.3	111.3	130.9	148.4	165.8	183.3	199.6
82.5°	103.6	85.1	69.8	63.3	69.8	86.2	104.7	125.5	142.9	161.4	177.8
85°	81.8	62.2	44.7	38.2	45.8	63.3	84.0	104.7	124.4	142.9	159.3
87.5°	64.4	44.7	27.3	18.5	28.4	46.9	66.5	87.3	108.0	126.5	142.9
90°	50.2	31.6	15.3	2.2	16.4	33.8	53.5	73.1	93.8	112.4	128.7
92.5°	42.5	24.0	8.7	0.0	9.8	25.1	43.6	63.3	81.8	100.4	116.7
95°	36.0	19.6	6.5	0.0	6.5	19.6	36.0	53.5	72.0	90.5	106.9
97.5°	30.5	15.3	4.4	0.0	4.4	15.3	29.5	46.9	63.3	80.7	96.0
100°	26.2	13.1	3.3	0.0	3.3	12.0	25.1	40.4	56.7	73.1	87.3
102.5°	22.9	10.9	2.2	0.0	2.2	9.8	20.7	34.9	49.1	64.4	78.5
105°	19.6	8.7	2.2	0.0	1.1	7.6	17.5	30.5	43.6	57.8	70.9
107.5°	17.5	7.6	2.2	0.0	1.1	6.5	15.3	26.2	39.3	51.3	63.3
110°	15.3	6.5	2.2	0.0	1.1	4.4	13.1	22.9	33.8	45.8	57.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	13.1	5.5	1.1	0.0	0.0	3.3	10.9	19.6	29.5	41.5	51.3
115°	12.0	5.5	1.1	0.0	0.0	2.2	8.7	17.5	26.2	37.1	45.8
117.5°	10.9	4.4	1.1	0.0	1.1	2.2	7.6	15.3	22.9	31.6	41.5
120°	9.8	4.4	1.1	0.0	1.1	1.1	5.5	13.1	19.6	28.4	36.0
122.5°	8.7	4.4	1.1	0.0	1.1	1.1	4.4	10.9	17.5	25.1	31.6
125°	7.6	3.3	2.2	1.1	1.1	1.1	3.3	8.7	15.3	20.7	28.4
127.5°	7.6	3.3	2.2	1.1	1.1	1.1	2.2	7.6	12.0	18.5	25.1
130°	6.5	3.3	2.2	1.1	1.1	1.1	1.1	5.5	10.9	15.3	20.7
132.5°	5.5	3.3	2.2	1.1	1.1	1.1	1.1	3.3	7.6	13.1	17.5
135°	5.5	3.3	2.2	1.1	1.1	1.1	1.1	2.2	5.5	9.8	14.2
137.5°	4.4	2.2	2.2	1.1	1.1	1.1	1.1	1.1	4.4	7.6	10.9
140°	4.4	2.2	2.2	1.1	1.1	1.1	1.1	1.1	3.3	5.5	8.7
142.5°	3.3	2.2	2.2	1.1	1.1	1.1	1.1	1.1	2.2	4.4	6.5
145°	3.3	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2	4.4
147.5°	3.3	3.3	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2	3.3
150°	3.3	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
152.5°	3.3	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
155°	3.3	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
157.5°	3.3	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
160°	3.3	2.2	2.2	1.1	2.2	1.1	2.2	2.2	2.2	2.2	2.2
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: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1988.7	1967.9	1978.9	1975.6	1979.9	1988.7	1987.6	1985.4	1985.4	1982.1	1977.8
5°	1982.1	1962.5	1972.3	1966.9	1972.3	1979.9	1978.9	1975.6	1977.8	1972.3	1966.9
7.5°	1969.0	1951.6	1960.3	1955.9	1960.3	1967.9	1964.7	1963.6	1965.8	1957.0	1953.8
10°	1953.8	1934.1	1943.9	1938.5	1943.9	1949.4	1947.2	1942.9	1947.2	1938.5	1935.2
12.5°	1929.8	1913.4	1919.9	1917.8	1921.0	1926.5	1922.1	1918.9	1921.0	1913.4	1906.9
15°	1903.6	1887.2	1892.7	1889.4	1891.6	1898.1	1890.5	1889.4	1887.2	1879.6	1877.4
17.5°	1869.8	1854.5	1859.9	1854.5	1857.8	1855.6	1854.5	1849.0	1849.0	1840.3	1833.8
20°	1828.3	1815.2	1811.9	1807.6	1811.9	1807.6	1801.0	1796.7	1795.6	1786.9	1781.4
22.5°	1780.3	1765.0	1767.2	1755.2	1756.3	1749.8	1738.9	1734.5	1730.1	1720.3	1712.7
25°	1722.5	1707.2	1696.3	1688.7	1678.9	1677.8	1663.6	1652.7	1651.6	1639.6	1638.5
27.5°	1657.0	1639.6	1630.9	1612.3	1600.3	1590.5	1578.5	1567.6	1562.1	1549.0	1540.3
30°	1581.8	1562.1	1540.3	1527.2	1508.7	1501.0	1480.3	1467.2	1462.9	1448.7	1442.1
32.5°	1496.7	1476.0	1458.5	1433.4	1412.7	1401.8	1381.1	1368.0	1362.5	1347.2	1338.5
35°	1404.0	1381.1	1360.3	1336.3	1320.0	1301.4	1276.3	1263.2	1251.2	1245.8	1239.2
37.5°	1306.9	1281.8	1257.8	1233.8	1219.6	1197.8	1176.0	1167.2	1153.1	1147.6	1141.1
40°	1206.5	1181.4	1158.5	1135.6	1119.2	1099.6	1080.0	1076.7	1061.4	1056.0	1051.6
42.5°	1107.2	1081.1	1054.9	1038.5	1026.5	1006.9	993.8	990.5	977.4	974.2	974.2
45°	1017.8	985.1	963.2	949.1	939.2	922.9	912.0	909.8	898.9	896.7	896.7
47.5°	921.8	891.2	874.9	866.2	857.4	845.4	838.9	838.9	828.0	825.8	824.7
50°	832.3	804.0	792.0	783.3	782.2	773.4	768.0	765.8	765.8	758.2	759.3
52.5°	747.3	733.1	723.3	717.8	711.3	705.8	701.4	701.4	698.2	692.7	694.9
55°	668.7	652.3	653.4	649.1	645.8	642.5	643.6	637.1	636.0	631.6	634.9
57.5°	590.2	590.2	588.0	584.7	579.3	581.4	581.4	581.4	576.0	572.7	576.0
60°	523.6	526.9	521.4	524.7	522.5	523.6	521.4	521.4	518.2	517.1	518.2
62.5°	464.7	470.2	468.0	472.4	470.2	471.3	473.4	469.1	466.9	464.7	466.9
65°	412.4	418.9	417.8	421.1	422.2	423.3	424.4	422.2	420.0	417.8	416.7
67.5°	366.5	373.1	377.4	378.5	379.6	382.9	381.8	379.6	377.4	374.2	373.1
70°	325.1	333.8	339.3	341.4	345.8	343.6	343.6	342.5	340.4	337.1	336.0
72.5°	290.2	300.0	305.4	307.6	312.0	312.0	310.9	309.8	307.6	304.4	303.3
75°	259.6	268.4	276.0	280.4	283.6	283.6	282.5	281.4	279.3	277.1	276.0
77.5°	235.6	243.3	249.8	255.3	257.4	258.5	257.4	255.3	255.3	254.2	253.1
80°	211.6	220.4	226.9	232.4	235.6	235.6	234.5	235.6	233.4	232.4	231.3
82.5°	190.9	200.7	208.4	213.8	216.0	217.1	216.0	217.1	214.9	214.9	214.9
85°	172.4	182.2	190.9	195.3	198.5	199.6	199.6	199.6	198.5	198.5	198.5
87.5°	157.1	166.9	175.6	180.0	183.3	184.4	184.4	185.4	183.3	183.3	183.3
90°	142.9	152.7	161.4	165.8	169.1	171.3	171.3	172.4	171.3	170.2	170.2
92.5°	129.8	140.7	149.5	153.8	157.1	160.4	160.4	161.4	159.3	159.3	159.3
95°	118.9	129.8	137.5	142.9	146.2	148.4	149.5	149.5	148.4	148.4	148.4
97.5°	109.1	118.9	126.5	132.0	135.3	136.4	137.5	138.5	137.5	137.5	137.5
100°	99.3	109.1	116.7	121.1	125.5	126.5	127.6	128.7	128.7	127.6	127.6
102.5°	90.5	100.4	106.9	112.4	115.6	117.8	118.9	118.9	118.9	118.9	118.9
105°	81.8	91.6	98.2	103.6	106.9	109.1	110.2	111.3	111.3	110.2	110.2
107.5°	74.2	82.9	90.5	94.9	99.3	101.5	102.5	102.5	103.6	102.5	102.5
110°	66.5	76.4	82.9	87.3	91.6	93.8	94.9	96.0	96.0	96.0	96.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	61.1	68.7	75.3	79.6	84.0	86.2	87.3	88.4	89.5	88.4	88.4
115°	54.5	62.2	68.7	73.1	76.4	78.5	80.7	81.8	81.8	82.9	81.8
117.5°	49.1	55.6	62.2	66.5	69.8	73.1	74.2	75.3	76.4	75.3	75.3
120°	43.6	50.2	55.6	60.0	63.3	66.5	67.6	68.7	69.8	68.7	68.7
122.5°	39.3	44.7	50.2	54.5	57.8	60.0	62.2	62.2	63.3	63.3	63.3
125°	34.9	40.4	44.7	49.1	52.4	54.5	55.6	56.7	56.7	57.8	57.8
127.5°	30.5	34.9	40.4	43.6	46.9	49.1	50.2	51.3	51.3	52.4	52.4
130°	26.2	30.5	34.9	38.2	41.5	43.6	44.7	45.8	46.9	46.9	46.9
132.5°	22.9	27.3	30.5	33.8	36.0	38.2	40.4	41.5	41.5	41.5	41.5
135°	18.5	22.9	26.2	29.5	31.6	33.8	34.9	37.1	37.1	37.1	37.1
137.5°	15.3	19.6	22.9	25.1	27.3	29.5	30.5	31.6	32.7	32.7	32.7
140°	12.0	15.3	18.5	21.8	24.0	25.1	27.3	27.3	28.4	28.4	28.4
142.5°	8.7	12.0	14.2	17.5	19.6	21.8	22.9	24.0	24.0	24.0	24.0
145°	6.5	8.7	10.9	13.1	16.4	17.5	18.5	19.6	20.7	20.7	20.7
147.5°	4.4	6.5	7.6	9.8	12.0	14.2	15.3	16.4	17.5	17.5	17.5
150°	3.3	4.4	6.5	7.6	8.7	10.9	13.1	13.1	14.2	14.2	13.1
152.5°	2.2	3.3	4.4	5.5	6.5	7.6	9.8	9.8	10.9	10.9	10.9
155°	2.2	2.2	2.2	3.3	4.4	5.5	6.5	7.6	7.6	7.6	7.6
157.5°	2.2	2.2	2.2	2.2	2.2	3.3	4.4	5.5	5.5	5.5	5.5
160°	2.2	2.2	1.1	1.1	2.2	2.2	2.2	2.2	3.3	3.3	3.3
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: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1981.0	1983.2	1983.2	1981.0	1979.9	1984.3	1978.9	1958.1	1964.7	1966.9	1973.4
5°	1971.2	1973.4	1973.4	1973.4	1971.2	1975.6	1970.1	1949.4	1957.0	1960.3	1964.7
7.5°	1957.0	1958.1	1960.3	1959.2	1957.0	1963.6	1958.1	1937.4	1942.9	1948.3	1953.8
10°	1938.5	1938.5	1939.6	1941.8	1939.6	1945.0	1939.6	1921.0	1926.5	1929.8	1936.3
12.5°	1913.4	1915.6	1916.7	1915.6	1914.5	1918.9	1916.7	1899.2	1901.4	1907.9	1914.5
15°	1879.6	1879.6	1885.0	1882.9	1882.9	1887.2	1889.4	1869.8	1873.0	1882.9	1889.4
17.5°	1838.1	1839.2	1843.6	1845.8	1844.7	1852.3	1853.4	1838.1	1837.0	1849.0	1855.6
20°	1784.7	1786.9	1792.3	1796.7	1796.7	1805.4	1808.7	1798.9	1799.9	1813.0	1815.2
22.5°	1719.2	1719.2	1729.0	1735.6	1741.0	1746.5	1756.3	1747.6	1747.6	1765.0	1774.9
25°	1638.5	1646.1	1649.4	1662.5	1670.1	1685.4	1694.1	1695.2	1696.3	1712.7	1719.2
27.5°	1549.0	1551.2	1561.0	1576.3	1585.0	1599.2	1615.6	1618.9	1624.3	1646.1	1656.0
30°	1447.6	1454.1	1458.5	1480.3	1492.3	1510.9	1531.6	1539.2	1543.6	1573.0	1585.0
32.5°	1344.0	1346.1	1364.7	1376.7	1390.9	1410.5	1434.5	1448.7	1457.4	1488.0	1505.4
35°	1240.3	1244.7	1260.0	1275.2	1289.4	1309.1	1334.1	1353.8	1369.1	1396.3	1419.2
37.5°	1145.4	1156.3	1159.6	1174.9	1185.8	1205.4	1222.9	1251.2	1266.5	1294.9	1324.3
40°	1060.3	1063.6	1065.8	1081.1	1088.7	1107.2	1132.3	1150.9	1171.6	1192.3	1227.2
42.5°	976.3	978.5	981.8	990.5	999.2	1012.3	1030.9	1049.4	1071.2	1101.8	1124.7
45°	898.9	901.1	903.2	908.7	916.3	928.3	940.3	953.4	975.2	1001.4	1025.4
47.5°	826.9	831.2	831.2	832.3	837.8	847.6	856.3	872.7	884.7	898.9	926.2
50°	758.2	761.4	762.5	762.5	765.8	772.3	774.5	785.4	796.3	809.4	829.1
52.5°	693.8	693.8	692.7	697.1	697.1	701.4	702.5	709.1	716.7	730.9	739.6
55°	632.7	632.7	636.0	633.8	633.8	636.0	634.9	636.0	642.5	651.3	658.9
57.5°	573.8	572.7	576.0	573.8	572.7	574.9	577.1	572.7	573.8	582.5	582.5
60°	514.9	516.0	519.3	517.1	517.1	517.1	514.9	512.7	510.5	516.0	518.2
62.5°	468.0	464.7	468.0	464.7	466.9	465.8	463.6	459.3	460.4	458.2	456.0
65°	418.9	418.9	420.0	416.7	418.9	418.9	415.6	414.5	408.0	405.8	400.4
67.5°	376.4	376.4	377.4	375.3	375.3	376.4	373.1	369.8	363.3	360.0	352.4
70°	339.3	339.3	339.3	338.2	338.2	338.2	336.0	331.6	325.1	319.6	309.8
72.5°	305.4	306.5	305.4	305.4	308.7	305.4	302.2	297.8	292.4	281.4	272.7
75°	278.2	279.3	278.2	278.2	278.2	277.1	276.0	269.4	262.9	254.2	241.1
77.5°	254.2	254.2	255.3	254.2	254.2	253.1	249.8	244.4	236.7	229.1	213.8
80°	231.3	232.4	233.4	234.5	232.4	231.3	228.0	223.6	213.8	205.1	189.8
82.5°	214.9	213.8	214.9	216.0	213.8	212.7	209.4	204.0	196.4	184.4	169.1
85°	198.5	197.4	197.4	198.5	197.4	195.3	192.0	186.5	178.9	166.9	151.6
87.5°	182.2	183.3	184.4	183.3	182.2	180.0	176.7	171.3	162.5	152.7	136.4
90°	170.2	170.2	170.2	170.2	169.1	166.9	163.6	157.1	149.5	137.5	123.3
92.5°	159.3	159.3	159.3	159.3	158.2	154.9	151.6	146.2	137.5	125.5	112.4
95°	148.4	149.5	148.4	148.4	146.2	145.1	139.6	134.2	126.5	114.5	100.4
97.5°	136.4	137.5	136.4	136.4	135.3	133.1	129.8	123.3	115.6	104.7	91.6
100°	127.6	127.6	126.5	126.5	125.5	123.3	118.9	113.5	105.8	94.9	81.8
102.5°	117.8	118.9	117.8	117.8	115.6	113.5	110.2	104.7	97.1	86.2	74.2
105°	110.2	110.2	109.1	109.1	106.9	104.7	101.5	94.9	88.4	78.5	66.5
107.5°	102.5	102.5	101.5	101.5	99.3	97.1	92.7	87.3	80.7	70.9	60.0
110°	94.9	94.9	94.9	93.8	91.6	88.4	85.1	79.6	73.1	64.4	53.5





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.5	88.4	87.3	86.2	84.0	81.8	77.5	72.0	65.5	57.8	48.0
115°	81.8	81.8	80.7	79.6	77.5	74.2	70.9	66.5	60.0	51.3	42.5
117.5°	75.3	75.3	74.2	73.1	70.9	67.6	64.4	60.0	53.5	45.8	38.2
120°	68.7	68.7	67.6	66.5	64.4	61.1	58.9	53.5	48.0	40.4	33.8
122.5°	63.3	62.2	62.2	60.0	58.9	55.6	52.4	48.0	42.5	36.0	29.5
125°	56.7	56.7	55.6	54.5	53.5	50.2	46.9	42.5	37.1	31.6	26.2
127.5°	51.3	51.3	50.2	49.1	48.0	44.7	41.5	38.2	32.7	27.3	21.8
130°	45.8	45.8	44.7	43.6	42.5	39.3	37.1	32.7	28.4	24.0	18.5
132.5°	41.5	41.5	40.4	39.3	37.1	34.9	32.7	28.4	25.1	20.7	16.4
135°	37.1	36.0	36.0	34.9	32.7	30.5	28.4	25.1	20.7	17.5	13.1
137.5°	32.7	31.6	30.5	29.5	28.4	26.2	24.0	21.8	18.5	14.2	10.9
140°	28.4	27.3	27.3	26.2	24.0	22.9	20.7	17.5	15.3	12.0	8.7
142.5°	24.0	24.0	22.9	21.8	20.7	19.6	17.5	15.3	12.0	9.8	6.5
145°	20.7	19.6	19.6	18.5	17.5	15.3	14.2	12.0	9.8	7.6	5.5
147.5°	16.4	16.4	16.4	15.3	14.2	13.1	12.0	9.8	7.6	5.5	3.3
150°	13.1	13.1	13.1	12.0	10.9	9.8	8.7	7.6	5.5	3.3	2.2
152.5°	10.9	10.9	9.8	9.8	8.7	7.6	6.5	5.5	3.3	2.2	2.2
155°	7.6	7.6	7.6	6.5	6.5	5.5	4.4	3.3	2.2	2.2	2.2
157.5°	5.5	5.5	5.5	4.4	4.4	3.3	3.3	2.2	2.2	2.2	2.2
160°	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1970.1	1969.0	1977.8	1977.8	1967.9	1983.2	1999.6
5°	1963.6	1962.5	1971.2	1971.2	1962.5	1977.8	1995.2
7.5°	1950.5	1951.6	1960.3	1962.5	1951.6	1965.8	1984.3
10°	1936.3	1935.2	1945.0	1947.2	1938.5	1951.6	1969.0
12.5°	1913.4	1913.4	1923.2	1926.5	1917.8	1933.0	1949.4
15°	1889.4	1889.4	1895.9	1901.4	1893.8	1907.9	1924.3
17.5°	1858.9	1857.8	1864.3	1870.9	1863.2	1878.5	1895.9
20°	1819.6	1819.6	1827.2	1834.9	1829.4	1843.6	1863.2
22.5°	1778.1	1773.8	1786.9	1792.3	1789.0	1803.2	1822.9
25°	1725.8	1724.7	1737.8	1745.4	1741.0	1756.3	1773.8
27.5°	1669.0	1668.0	1681.0	1690.9	1688.7	1702.9	1722.5
30°	1600.3	1605.8	1617.8	1634.1	1628.7	1644.0	1664.7
32.5°	1528.3	1533.8	1548.0	1565.4	1566.5	1578.5	1599.2
35°	1442.1	1456.3	1466.1	1489.0	1493.4	1505.4	1527.2
37.5°	1351.6	1368.0	1388.7	1406.1	1414.9	1424.7	1449.8
40°	1250.1	1274.1	1297.1	1317.8	1328.7	1338.5	1362.5
42.5°	1158.5	1177.1	1198.9	1219.6	1239.2	1248.0	1273.1
45°	1054.9	1076.7	1096.3	1121.4	1141.1	1150.9	1176.0
47.5°	953.4	975.2	1001.4	1018.9	1039.6	1049.4	1073.4
50°	856.3	876.0	897.8	918.5	936.0	944.7	965.4
52.5°	760.3	781.1	801.8	814.9	833.4	840.0	857.4
55°	675.3	689.4	708.0	715.6	734.2	738.5	750.5
57.5°	593.4	603.3	609.8	622.9	636.0	645.8	660.0
60°	519.3	523.6	528.0	535.6	546.5	549.8	555.3
62.5°	452.7	451.6	460.4	462.5	463.6	474.5	469.1
65°	393.8	394.9	387.3	384.0	388.4	391.6	389.4
67.5°	344.7	338.2	331.6	324.0	317.4	320.7	317.4
70°	296.7	291.3	280.4	269.4	265.1	258.5	255.3
72.5°	258.5	245.4	234.5	220.4	212.7	205.1	199.6
75°	229.1	210.5	195.3	180.0	169.1	158.2	156.0
77.5°	198.5	181.1	163.6	147.3	130.9	118.9	114.5
80°	174.5	158.2	137.5	117.8	100.4	85.1	79.6
82.5°	152.7	135.3	114.5	93.8	74.2	57.8	51.3
85°	134.2	115.6	94.9	74.2	54.5	37.1	28.4
87.5°	120.0	99.3	78.5	58.9	38.2	20.7	10.9
90°	106.9	87.3	67.6	46.9	27.3	10.9	0.0
92.5°	94.9	76.4	56.7	38.2	20.7	6.5	1.1
95°	84.0	67.6	48.0	30.5	15.3	4.4	1.1
97.5°	75.3	58.9	41.5	25.1	12.0	3.3	1.1
100°	67.6	51.3	36.0	20.7	9.8	2.2	1.1
102.5°	60.0	45.8	30.5	17.5	7.6	1.1	1.1
105°	53.5	40.4	26.2	15.3	6.5	1.1	1.1
107.5°	48.0	36.0	22.9	13.1	4.4	1.1	1.1
110°	42.5	30.5	19.6	10.9	3.3	1.1	1.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	38.2	27.3	17.5	8.7	2.2	1.1	1.1
115°	33.8	24.0	15.3	7.6	2.2	1.1	1.1
117.5°	29.5	20.7	13.1	5.5	1.1	1.1	1.1
120°	26.2	18.5	10.9	4.4	1.1	1.1	1.1
122.5°	22.9	15.3	8.7	3.3	1.1	1.1	1.1
125°	19.6	13.1	7.6	2.2	1.1	1.1	1.1
127.5°	16.4	10.9	5.5	2.2	1.1	1.1	1.1
130°	14.2	8.7	4.4	1.1	1.1	1.1	1.1
132.5°	12.0	6.5	3.3	1.1	1.1	1.1	1.1
135°	9.8	5.5	2.2	1.1	1.1	1.1	1.1
137.5°	7.6	4.4	2.2	1.1	1.1	1.1	1.1
140°	5.5	3.3	1.1	1.1	1.1	1.1	1.1
142.5°	4.4	2.2	1.1	1.1	1.1	1.1	1.1
145°	3.3	2.2	1.1	1.1	1.1	1.1	1.1
147.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1
150°	2.2	2.2	1.1	1.1	2.2	1.1	1.1
152.5°	2.2	1.1	1.1	1.1	2.2	1.1	1.1
155°	2.2	2.2	2.2	2.2	2.2	2.2	1.1
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
160°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)