

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-L950-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-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

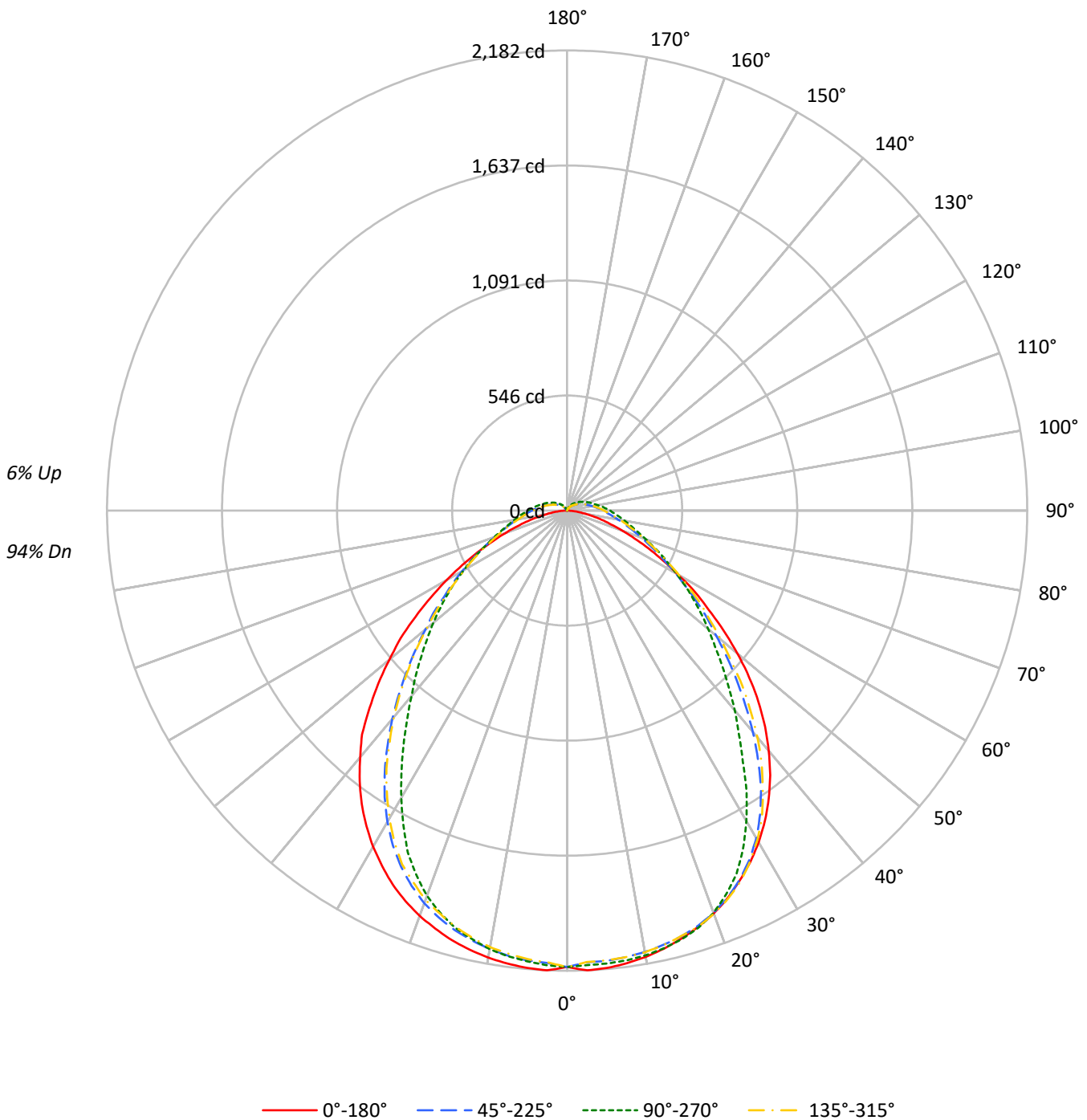
Lumens per Lamp: N/A
Luminaire Lumens: 5477.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-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	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°	8744	8744	8744	8744
5°	8819	8466	8819	8428
10°	8792	8241	8806	8126
15°	8747	7995	8787	7787
20°	8693	7678	8744	7354
25°	8567	7208	8662	6784
30°	8400	6518	8510	6034
35°	8132	5673	8288	5282
40°	7741	4961	7945	4603
45°	7220	4313	7454	4065
50°	6501	3790	6788	3598
55°	5643	3346	6053	3177
60°	4767	2938	5198	2769
65°	3932	2598	4327	2408
70°	3156	2305	3533	2133
75°	2511	2129	2828	1958
80°	1857	2054	2189	1877
85°	1219	2065	1640	1899



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	3.7
10°-20°	588.3	10.7
20°-30°	871.9	15.9
30°-40°	968.7	17.7
40°-50°	878.1	16.0
50°-60°	680.4	12.4
60°-70°	462.1	8.4
70°-80°	294.0	5.4
80°-90°	187.9	3.4
90°-100°	126.7	2.3
100°-110°	86.8	1.6
110°-120°	57.9	1.1
120°-130°	36.0	0.7
130°-140°	19.9	0.4
140°-150°	9.4	0.2
150°-160°	3.4	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1665.5	30.4
0°-40°	2634.1	48.1
0°-60°	4192.7	76.6
0°-90°	5136.7	93.8
90°-120°	271.4	5.0
90°-150°	336.7	6.1
90°-180°	340.0	6.2
0°-180°	5477.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2164	2164	2164	2164	2164	
5°	2177	2156	2177	2146	2177	207
15°	2100	2104	2109	2049	2100	593
25°	1936	1900	1957	1788	1936	891
35°	1667	1452	1699	1352	1667	1040
45°	1283	1038	1325	978	1283	986
55°	819	730	878	693	819	737
65°	425	490	468	455	425	426
75°	170	327	192	301	170	183
85°	31	236	42	217	31	37
90°	0	204	2	186	0	2
95°	1	174	0	162	1	1
105°	1	127	0	120	1	1
115°	1	96	0	89	1	1
125°	1	71	1	63	1	1
135°	1	50	1	40	1	1
145°	1	32	1	23	1	1
155°	1	18	1	8	1	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2182.0	2179.7	2177.3	2173.7	2177.3	2186.8	2180.9	2167.8	2165.4	2144.0	2153.5
5°	2177.3	2173.7	2171.3	2167.8	2172.5	2184.4	2178.5	2166.6	2163.0	2142.8	2153.5
7.5°	2165.4	2163.0	2159.4	2159.4	2164.2	2176.1	2171.3	2158.2	2155.9	2135.6	2147.5
10°	2148.7	2147.5	2145.1	2145.1	2149.9	2164.2	2158.2	2146.3	2144.0	2124.9	2138.0
12.5°	2127.3	2128.5	2124.9	2124.9	2132.1	2146.3	2141.6	2128.5	2126.1	2109.4	2122.5
15°	2099.9	2101.1	2098.7	2099.9	2107.1	2123.7	2117.8	2105.9	2103.5	2090.4	2101.1
17.5°	2069.0	2070.1	2070.1	2069.0	2077.3	2094.0	2089.2	2078.5	2074.9	2064.2	2077.3
20°	2033.2	2033.2	2033.2	2033.2	2042.8	2059.4	2053.5	2045.1	2038.0	2029.7	2040.4
22.5°	1989.2	1988.0	1989.2	1992.8	2002.3	2015.4	2011.8	2002.3	1991.6	1986.8	1995.2
25°	1935.6	1939.2	1940.4	1944.0	1955.9	1966.6	1963.0	1953.5	1936.8	1933.2	1935.6
27.5°	1879.7	1882.1	1885.6	1884.4	1901.1	1911.8	1904.7	1896.3	1872.5	1869.0	1866.6
30°	1816.6	1820.2	1822.5	1821.3	1834.4	1846.3	1839.2	1828.5	1796.4	1794.0	1774.9
32.5°	1745.2	1748.7	1751.1	1751.1	1770.2	1774.9	1761.8	1746.4	1711.8	1703.5	1686.8
35°	1666.6	1670.2	1671.4	1671.4	1690.4	1689.2	1672.5	1651.1	1613.0	1602.3	1573.7
37.5°	1582.1	1584.5	1585.6	1592.8	1601.1	1594.0	1572.6	1545.2	1516.6	1486.8	1455.9
40°	1486.8	1490.4	1492.8	1497.6	1505.9	1497.6	1466.6	1433.3	1402.3	1369.0	1338.0
42.5°	1389.2	1399.9	1397.6	1396.4	1401.1	1378.5	1354.7	1316.6	1285.7	1251.1	1220.2
45°	1283.3	1282.1	1288.0	1290.4	1289.2	1270.2	1236.9	1202.3	1171.4	1135.7	1109.5
47.5°	1171.4	1170.2	1174.9	1177.3	1170.2	1150.0	1123.8	1084.5	1058.3	1027.3	1007.1
50°	1053.5	1053.5	1060.7	1053.5	1050.0	1029.7	1008.3	969.0	948.8	921.4	909.5
52.5°	935.7	946.4	939.2	936.9	933.3	913.1	896.4	864.2	847.6	835.7	821.4
55°	819.0	830.9	826.2	822.6	821.4	804.7	789.3	765.4	754.7	746.4	738.1
57.5°	720.2	719.0	716.6	713.1	714.3	701.2	685.7	672.6	667.8	664.3	666.6
60°	605.9	615.4	611.9	613.1	614.3	611.9	598.8	590.5	591.6	592.8	596.4
62.5°	511.9	520.2	526.2	521.4	523.8	527.4	520.2	517.8	522.6	527.4	532.1
65°	425.0	433.3	439.3	438.1	445.2	452.4	451.2	453.6	464.3	470.2	476.2
67.5°	346.4	354.7	363.1	364.3	375.0	385.7	390.5	398.8	410.7	419.0	426.2
70°	278.6	285.7	295.2	301.2	315.5	329.7	338.1	354.7	361.9	373.8	378.6
72.5°	217.8	223.8	236.9	251.2	263.1	280.9	297.6	311.9	322.6	335.7	341.7
75°	170.2	172.6	186.9	203.6	220.2	240.5	258.3	273.8	288.1	301.2	310.7
77.5°	125.0	128.6	141.7	164.3	183.3	204.8	225.0	241.7	257.1	270.2	283.3
80°	86.9	94.0	108.3	130.9	152.4	176.2	195.2	214.3	230.9	244.0	257.1
82.5°	55.9	61.9	82.1	104.8	127.4	151.2	171.4	190.5	208.3	222.6	234.5
85°	31.0	39.3	59.5	83.3	105.9	129.8	151.2	170.2	188.1	201.2	213.1
87.5°	11.9	23.8	42.9	65.5	88.1	110.7	133.3	151.2	169.0	183.3	194.0
90°	0.0	14.3	32.1	54.8	77.4	100.0	121.4	140.5	157.1	170.2	182.1
92.5°	1.2	9.5	25.0	44.0	65.5	86.9	107.1	126.2	142.9	155.9	166.7
95°	1.2	7.1	20.2	38.1	57.1	77.4	96.4	114.3	129.8	142.9	153.6
97.5°	1.2	4.8	16.7	33.3	50.0	70.2	88.1	104.8	119.0	132.1	140.5
100°	1.2	4.8	14.3	28.6	45.2	63.1	79.8	96.4	109.5	120.2	129.8
102.5°	1.2	3.6	11.9	25.0	40.5	55.9	72.6	88.1	100.0	110.7	120.2
105°	1.2	3.6	10.7	21.4	35.7	51.2	65.5	79.8	92.9	102.4	110.7
107.5°	1.2	2.4	9.5	17.9	31.0	46.4	60.7	72.6	84.5	94.0	102.4
110°	1.2	2.4	8.3	16.7	27.4	41.7	54.8	66.7	77.4	86.9	94.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	2.4	7.1	15.5	25.0	36.9	50.0	60.7	71.4	79.8	86.9
115°	1.2	2.4	7.1	14.3	22.6	32.1	44.0	55.9	64.3	73.8	79.8
117.5°	1.2	2.4	6.0	11.9	21.4	29.8	40.5	50.0	59.5	67.9	73.8
120°	1.2	2.4	6.0	10.7	19.0	27.4	35.7	45.2	54.8	60.7	66.7
122.5°	1.2	2.4	4.8	10.7	16.7	25.0	32.1	40.5	48.8	55.9	61.9
125°	1.2	2.4	4.8	9.5	15.5	22.6	29.8	35.7	44.0	50.0	55.9
127.5°	1.2	2.4	4.8	8.3	14.3	20.2	27.4	33.3	39.3	45.2	50.0
130°	1.2	2.4	3.6	7.1	13.1	17.9	23.8	31.0	35.7	40.5	45.2
132.5°	1.2	2.4	3.6	7.1	10.7	15.5	21.4	27.4	32.1	36.9	40.5
135°	1.2	2.4	3.6	6.0	9.5	14.3	17.9	23.8	28.6	33.3	36.9
137.5°	1.2	2.4	3.6	6.0	8.3	11.9	15.5	20.2	25.0	28.6	33.3
140°	1.2	2.4	3.6	4.8	7.1	10.7	14.3	16.7	21.4	25.0	28.6
142.5°	1.2	2.4	3.6	4.8	7.1	9.5	11.9	14.3	17.9	21.4	25.0
145°	1.2	2.4	3.6	4.8	6.0	8.3	10.7	13.1	14.3	17.9	20.2
147.5°	1.2	2.4	3.6	4.8	4.8	7.1	9.5	10.7	13.1	14.3	16.7
150°	1.2	2.4	3.6	3.6	4.8	6.0	8.3	9.5	10.7	13.1	14.3
152.5°	1.2	2.4	3.6	3.6	4.8	6.0	7.1	8.3	9.5	10.7	11.9
155°	1.2	2.4	3.6	3.6	3.6	4.8	6.0	7.1	8.3	9.5	10.7
157.5°	2.4	2.4	2.4	3.6	3.6	4.8	4.8	6.0	7.1	7.1	8.3
160°	2.4	2.4	2.4	3.6	3.6	3.6	4.8	4.8	6.0	6.0	7.1
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2151.1	2154.7	2165.4	2165.4	2163.0	2160.6	2160.6	2157.0	2159.4	2164.2	2161.8
5°	2151.1	2154.7	2165.4	2165.4	2163.0	2160.6	2159.4	2155.9	2159.4	2164.2	2161.8
7.5°	2144.0	2148.7	2159.4	2159.4	2157.0	2155.9	2153.5	2151.1	2154.7	2159.4	2157.0
10°	2134.4	2139.2	2149.9	2149.9	2147.5	2147.5	2144.0	2141.6	2146.3	2149.9	2148.7
12.5°	2120.1	2126.1	2135.6	2134.4	2132.1	2133.2	2129.7	2124.9	2129.7	2133.2	2134.4
15°	2099.9	2107.1	2116.6	2114.2	2110.6	2113.0	2107.1	2103.5	2107.1	2114.2	2113.0
17.5°	2073.7	2078.5	2085.6	2085.6	2082.1	2079.7	2077.3	2073.7	2076.1	2080.9	2082.1
20°	2036.8	2042.8	2046.3	2042.8	2041.6	2038.0	2033.2	2029.7	2034.4	2041.6	2042.8
22.5°	1988.0	1989.2	1997.5	1989.2	1983.2	1982.1	1977.3	1970.2	1977.3	1983.2	1984.4
25°	1927.3	1933.2	1929.7	1915.4	1915.4	1905.9	1903.5	1899.9	1901.1	1911.8	1916.6
27.5°	1849.9	1852.3	1842.8	1830.9	1820.2	1814.2	1805.9	1807.1	1807.1	1821.3	1826.1
30°	1765.4	1752.3	1744.0	1724.9	1716.6	1702.3	1699.9	1699.9	1697.5	1704.7	1726.1
32.5°	1664.2	1646.4	1633.3	1615.4	1601.1	1586.8	1579.7	1583.3	1582.1	1599.9	1607.1
35°	1553.5	1542.8	1515.4	1492.8	1484.5	1463.0	1463.0	1452.3	1459.5	1479.7	1488.0
37.5°	1436.8	1420.2	1397.6	1372.6	1366.6	1349.9	1344.0	1338.0	1353.5	1357.1	1365.4
40°	1317.8	1302.3	1280.9	1257.1	1257.1	1236.9	1236.9	1236.9	1238.0	1245.2	1260.7
42.5°	1204.7	1188.0	1169.0	1152.3	1150.0	1134.5	1134.5	1133.3	1135.7	1141.6	1155.9
45°	1095.2	1082.1	1061.9	1053.5	1054.7	1038.1	1041.6	1038.1	1042.8	1048.8	1053.5
47.5°	994.0	985.7	977.3	965.4	961.9	960.7	954.7	950.0	958.3	958.3	965.4
50°	900.0	895.2	890.4	883.3	884.5	879.7	872.6	872.6	878.5	879.7	884.5
52.5°	817.8	811.9	805.9	807.1	808.3	805.9	802.3	798.8	802.3	804.7	810.7
55°	735.7	730.9	736.9	734.5	736.9	734.5	732.1	729.7	735.7	732.1	738.1
57.5°	661.9	666.6	669.0	664.3	667.8	665.4	666.6	663.1	667.8	670.2	669.0
60°	594.0	601.2	597.6	598.8	603.5	601.2	596.4	600.0	604.7	605.9	604.7
62.5°	532.1	540.5	544.0	541.6	542.8	540.5	544.0	539.3	545.2	547.6	544.0
65°	476.2	485.7	488.1	488.1	488.1	485.7	489.3	490.5	492.8	492.8	490.5
67.5°	428.6	436.9	439.3	441.6	439.3	436.9	436.9	438.1	442.8	445.2	442.8
70°	385.7	394.0	395.2	395.2	396.4	398.8	394.0	396.4	400.0	401.2	400.0
72.5°	348.8	357.1	359.5	358.3	359.5	360.7	360.7	358.3	361.9	364.3	364.3
75°	319.0	323.8	326.2	326.2	327.4	328.6	328.6	327.4	329.7	330.9	332.1
77.5°	291.7	295.2	298.8	298.8	300.0	298.8	301.2	301.2	302.4	303.6	304.7
80°	264.3	269.0	271.4	272.6	275.0	276.2	276.2	276.2	277.4	278.6	278.6
82.5°	242.8	246.4	250.0	253.6	253.6	254.8	254.8	254.8	255.9	255.9	257.1
85°	221.4	226.2	229.8	232.1	233.3	234.5	234.5	235.7	235.7	235.7	236.9
87.5°	202.4	208.3	210.7	213.1	214.3	216.7	216.7	216.7	217.8	217.8	217.8
90°	189.3	195.2	197.6	200.0	201.2	202.4	202.4	203.6	203.6	204.8	204.8
92.5°	173.8	179.8	184.5	184.5	185.7	188.1	186.9	186.9	188.1	189.3	189.3
95°	161.9	166.7	170.2	171.4	172.6	172.6	172.6	173.8	172.6	173.8	173.8
97.5°	147.6	152.4	155.9	158.3	159.5	159.5	159.5	160.7	159.5	160.7	160.7
100°	135.7	140.5	144.0	145.2	147.6	147.6	147.6	147.6	147.6	147.6	148.8
102.5°	126.2	130.9	133.3	134.5	135.7	136.9	136.9	136.9	136.9	138.1	138.1
105°	116.7	121.4	123.8	125.0	126.2	127.4	127.4	127.4	128.6	128.6	127.4
107.5°	108.3	111.9	114.3	116.7	117.9	117.9	119.0	119.0	119.0	119.0	119.0
110°	100.0	103.6	107.1	109.5	109.5	110.7	110.7	111.9	111.9	110.7	111.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	91.7	96.4	98.8	101.2	102.4	103.6	103.6	103.6	103.6	103.6	103.6
115°	84.5	89.3	91.7	94.0	95.2	96.4	96.4	96.4	96.4	96.4	96.4
117.5°	78.6	83.3	85.7	86.9	88.1	89.3	90.5	90.5	90.5	90.5	89.3
120°	72.6	76.2	78.6	80.9	82.1	83.3	83.3	83.3	83.3	83.3	83.3
122.5°	66.7	70.2	72.6	75.0	76.2	77.4	77.4	77.4	77.4	77.4	77.4
125°	60.7	64.3	66.7	69.0	70.2	71.4	71.4	71.4	71.4	71.4	71.4
127.5°	54.8	58.3	61.9	63.1	64.3	65.5	65.5	65.5	66.7	65.5	65.5
130°	48.8	52.4	55.9	57.1	58.3	59.5	60.7	60.7	60.7	60.7	59.5
132.5°	44.0	47.6	50.0	51.2	53.6	53.6	54.8	54.8	54.8	54.8	53.6
135°	40.5	42.9	45.2	46.4	48.8	48.8	48.8	50.0	50.0	48.8	47.6
137.5°	35.7	38.1	40.5	41.7	42.9	44.0	44.0	45.2	44.0	44.0	44.0
140°	33.3	34.5	36.9	38.1	39.3	39.3	39.3	40.5	40.5	39.3	39.3
142.5°	28.6	31.0	33.3	34.5	35.7	35.7	35.7	35.7	35.7	35.7	35.7
145°	23.8	27.4	28.6	31.0	31.0	32.1	32.1	32.1	32.1	32.1	31.0
147.5°	20.2	22.6	26.2	27.4	27.4	28.6	28.6	28.6	28.6	28.6	27.4
150°	15.5	17.9	21.4	23.8	23.8	25.0	25.0	25.0	25.0	23.8	23.8
152.5°	13.1	15.5	16.7	19.0	20.2	20.2	20.2	21.4	20.2	20.2	20.2
155°	11.9	13.1	14.3	15.5	16.7	17.9	17.9	17.9	17.9	16.7	16.7
157.5°	9.5	10.7	11.9	13.1	14.3	15.5	15.5	15.5	15.5	15.5	14.3
160°	7.1	8.3	9.5	9.5	10.7	11.9	13.1	11.9	11.9	11.9	11.9
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2159.4	2158.2	2161.8	2155.9	2138.0	2142.8	2140.4	2151.1	2153.5	2155.9	2166.6
5°	2159.4	2158.2	2160.6	2155.9	2136.8	2140.4	2138.0	2148.7	2151.1	2152.3	2163.0
7.5°	2154.7	2153.5	2157.0	2151.1	2130.9	2135.6	2132.1	2142.8	2144.0	2145.1	2154.7
10°	2145.1	2144.0	2146.3	2141.6	2121.3	2126.1	2121.3	2132.1	2132.1	2134.4	2141.6
12.5°	2130.9	2128.5	2133.2	2127.3	2104.7	2110.6	2108.2	2115.4	2116.6	2117.8	2124.9
15°	2110.6	2108.2	2111.8	2108.2	2088.0	2089.2	2085.6	2096.3	2097.5	2095.1	2102.3
17.5°	2080.9	2078.5	2085.6	2083.2	2063.0	2067.8	2066.6	2069.0	2072.5	2066.6	2076.1
20°	2044.0	2046.3	2048.7	2049.9	2034.4	2034.4	2033.2	2038.0	2041.6	2036.8	2044.0
22.5°	1989.2	1995.2	2002.3	2004.7	1994.0	1992.8	1999.9	1997.5	2001.1	1998.7	2003.5
25°	1920.2	1932.1	1939.2	1946.3	1940.4	1942.8	1953.5	1955.9	1955.9	1954.7	1959.4
27.5°	1834.4	1849.9	1863.0	1878.5	1872.5	1877.3	1895.2	1897.5	1902.3	1897.5	1907.1
30°	1732.1	1746.4	1771.4	1794.0	1796.4	1803.5	1828.5	1830.9	1844.0	1839.2	1842.8
32.5°	1629.7	1636.8	1665.4	1688.0	1702.3	1720.2	1747.5	1752.3	1770.2	1773.7	1773.7
35°	1501.1	1521.4	1547.6	1579.7	1597.5	1616.6	1653.5	1660.6	1686.8	1695.2	1704.7
37.5°	1392.8	1411.8	1428.5	1461.8	1494.0	1515.4	1545.2	1563.0	1590.4	1605.9	1617.8
40°	1277.3	1292.8	1310.7	1344.0	1371.4	1403.5	1433.3	1454.7	1489.2	1507.1	1522.6
42.5°	1167.8	1179.7	1198.8	1222.6	1251.1	1286.8	1315.4	1340.4	1377.3	1402.3	1420.2
45°	1070.2	1077.3	1094.0	1111.9	1136.9	1173.8	1201.1	1233.3	1263.0	1289.2	1310.7
47.5°	978.5	988.1	996.4	1008.3	1030.9	1053.5	1085.7	1116.6	1146.4	1174.9	1196.4
50°	894.0	894.0	907.1	915.4	930.9	951.1	976.1	997.6	1034.5	1054.7	1082.1
52.5°	811.9	816.6	823.8	828.5	840.4	853.5	873.8	891.6	922.6	941.6	967.8
55°	739.3	744.0	747.6	750.0	757.1	772.6	779.7	794.0	815.4	830.9	853.5
57.5°	670.2	672.6	676.2	677.4	678.5	688.1	694.0	697.6	719.0	734.5	753.5
60°	607.1	607.1	610.7	609.5	608.3	613.1	611.9	615.4	628.5	638.1	646.4
62.5°	547.6	547.6	548.8	546.4	545.2	545.2	540.5	544.0	547.6	548.8	554.7
65°	492.8	498.8	494.0	495.2	488.1	485.7	483.3	476.2	475.0	470.2	472.6
67.5°	444.0	448.8	444.0	444.0	438.1	433.3	427.4	415.5	411.9	402.4	400.0
70°	404.7	401.2	403.6	400.0	392.8	386.9	378.6	369.0	357.1	345.2	336.9
72.5°	366.7	366.7	364.3	360.7	357.1	345.2	335.7	325.0	310.7	295.2	283.3
75°	329.7	330.9	330.9	327.4	321.4	310.7	300.0	284.5	269.0	251.2	235.7
77.5°	303.6	303.6	303.6	297.6	291.7	282.1	269.0	252.4	235.7	214.3	196.4
80°	278.6	277.4	277.4	270.2	264.3	253.6	240.5	223.8	205.9	183.3	163.1
82.5°	258.3	257.1	254.8	248.8	240.5	229.8	216.7	198.8	179.8	159.5	134.5
85°	236.9	235.7	233.3	227.4	219.0	209.5	195.2	177.4	158.3	135.7	111.9
87.5°	217.8	216.7	213.1	209.5	200.0	189.3	175.0	158.3	138.1	116.7	92.9
90°	204.8	202.4	200.0	195.2	186.9	175.0	160.7	142.9	122.6	101.2	77.4
92.5°	189.3	188.1	184.5	179.8	172.6	160.7	146.4	129.8	109.5	89.3	66.7
95°	173.8	172.6	170.2	165.5	158.3	147.6	134.5	117.9	98.8	78.6	58.3
97.5°	159.5	159.5	155.9	152.4	144.0	135.7	122.6	107.1	89.3	71.4	52.4
100°	147.6	147.6	144.0	139.3	133.3	125.0	111.9	97.6	80.9	64.3	45.2
102.5°	136.9	135.7	133.3	128.6	122.6	114.3	102.4	89.3	73.8	57.1	40.5
105°	127.4	126.2	123.8	119.0	114.3	104.8	95.2	82.1	66.7	51.2	35.7
107.5°	117.9	116.7	115.5	110.7	104.8	96.4	86.9	73.8	60.7	46.4	32.1
110°	109.5	108.3	105.9	101.2	95.2	88.1	78.6	67.9	54.8	41.7	28.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	102.4	101.2	98.8	94.0	89.3	80.9	72.6	60.7	50.0	38.1	25.0
115°	95.2	94.0	91.7	86.9	80.9	73.8	65.5	55.9	44.0	33.3	22.6
117.5°	88.1	86.9	84.5	80.9	75.0	67.9	59.5	50.0	39.3	31.0	20.2
120°	82.1	79.8	77.4	73.8	67.9	61.9	53.6	45.2	35.7	27.4	17.9
122.5°	76.2	73.8	71.4	67.9	61.9	55.9	47.6	40.5	33.3	25.0	16.7
125°	69.0	67.9	65.5	61.9	55.9	50.0	44.0	36.9	29.8	22.6	14.3
127.5°	63.1	61.9	59.5	54.8	50.0	45.2	39.3	33.3	26.2	19.0	13.1
130°	58.3	55.9	53.6	50.0	46.4	41.7	35.7	29.8	23.8	16.7	11.9
132.5°	52.4	50.0	47.6	45.2	41.7	36.9	32.1	26.2	21.4	15.5	10.7
135°	47.6	45.2	42.9	40.5	36.9	33.3	28.6	23.8	19.0	14.3	9.5
137.5°	41.7	40.5	39.3	36.9	33.3	29.8	26.2	20.2	16.7	13.1	8.3
140°	38.1	36.9	35.7	32.1	29.8	26.2	22.6	17.9	14.3	10.7	7.1
142.5°	34.5	33.3	31.0	28.6	26.2	23.8	19.0	16.7	13.1	9.5	7.1
145°	29.8	28.6	27.4	25.0	22.6	19.0	16.7	14.3	11.9	8.3	6.0
147.5°	27.4	26.2	23.8	21.4	19.0	16.7	15.5	13.1	9.5	7.1	4.8
150°	22.6	21.4	20.2	17.9	16.7	15.5	13.1	10.7	8.3	6.0	4.8
152.5°	19.0	17.9	16.7	16.7	14.3	13.1	10.7	9.5	7.1	6.0	3.6
155°	16.7	16.7	15.5	14.3	11.9	10.7	9.5	7.1	6.0	4.8	3.6
157.5°	14.3	13.1	11.9	11.9	10.7	9.5	7.1	6.0	4.8	4.8	3.6
160°	11.9	10.7	10.7	9.5	8.3	7.1	6.0	6.0	4.8	3.6	3.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2167.8	2154.7	2166.6	2182.0	2182.0	2179.7	2177.3	2182.0	2194.0	2189.2	2174.9
5°	2164.2	2151.1	2161.8	2177.3	2177.3	2173.7	2171.3	2174.9	2188.0	2182.0	2169.0
7.5°	2157.0	2145.1	2152.3	2166.6	2166.6	2163.0	2160.6	2165.4	2176.1	2170.1	2155.9
10°	2144.0	2130.9	2139.2	2152.3	2151.1	2148.7	2145.1	2151.1	2160.6	2152.3	2135.6
12.5°	2127.3	2114.2	2121.3	2133.2	2132.1	2127.3	2124.9	2128.5	2136.8	2132.1	2114.2
15°	2104.7	2091.6	2097.5	2109.4	2105.9	2102.3	2097.5	2098.7	2109.4	2101.1	2082.1
17.5°	2077.3	2063.0	2067.8	2078.5	2074.9	2071.3	2065.4	2066.6	2078.5	2066.6	2046.3
20°	2044.0	2028.5	2032.1	2045.1	2039.2	2033.2	2027.3	2027.3	2039.2	2026.1	2003.5
22.5°	2008.2	1992.8	1995.2	2004.7	1999.9	1989.2	1983.2	1986.8	1992.8	1976.1	1952.3
25°	1964.2	1944.0	1947.5	1957.1	1953.5	1939.2	1933.2	1935.6	1933.2	1920.2	1895.2
27.5°	1913.0	1891.6	1894.0	1899.9	1895.2	1882.1	1874.9	1876.1	1871.3	1854.7	1826.1
30°	1848.7	1838.0	1836.8	1840.4	1833.3	1820.2	1811.8	1809.4	1808.3	1784.4	1749.9
32.5°	1783.3	1773.7	1767.8	1772.5	1764.2	1751.1	1736.8	1736.8	1724.9	1702.3	1672.5
35°	1716.6	1701.1	1695.2	1698.7	1689.2	1672.5	1660.6	1654.7	1636.8	1608.3	1576.1
37.5°	1630.9	1620.2	1613.0	1616.6	1605.9	1594.0	1571.4	1565.4	1546.4	1507.1	1466.6
40°	1538.0	1529.7	1522.6	1526.1	1514.2	1496.4	1476.1	1466.6	1445.2	1401.1	1369.0
42.5°	1438.0	1434.5	1426.1	1439.2	1415.4	1397.6	1377.3	1361.8	1340.4	1292.8	1255.9
45°	1332.1	1340.4	1321.4	1324.9	1309.5	1294.0	1272.6	1249.9	1228.5	1183.3	1141.6
47.5°	1220.2	1226.1	1213.0	1215.4	1198.8	1184.5	1165.4	1136.9	1113.0	1073.8	1036.9
50°	1104.7	1102.3	1102.3	1100.0	1086.9	1069.0	1050.0	1023.8	1000.0	964.2	933.3
52.5°	982.1	986.9	989.2	995.2	978.5	967.8	938.1	915.4	897.6	860.7	834.5
55°	864.2	880.9	876.2	878.5	859.5	851.2	827.3	809.5	783.3	761.9	745.2
57.5°	757.1	760.7	763.1	766.6	758.3	741.6	722.6	708.3	688.1	670.2	658.3
60°	653.5	653.5	654.7	660.7	652.4	638.1	623.8	613.1	598.8	588.1	580.9
62.5°	555.9	564.3	565.5	560.7	550.0	542.8	533.3	527.4	517.8	514.3	511.9
65°	465.5	465.5	465.5	467.8	461.9	457.1	451.2	450.0	453.6	448.8	451.2
67.5°	389.3	385.7	383.3	384.5	382.1	379.7	378.6	382.1	389.3	389.3	395.2
70°	323.8	316.7	311.9	311.9	311.9	313.1	316.7	323.8	335.7	340.5	348.8
72.5°	270.2	254.8	247.6	247.6	248.8	253.6	264.3	277.4	288.1	297.6	308.3
75°	219.0	203.6	192.8	191.7	194.0	201.2	216.7	228.6	246.4	259.5	272.6
77.5°	177.4	158.3	145.2	144.0	147.6	158.3	177.4	192.8	213.1	227.4	241.7
80°	141.7	120.2	109.5	102.4	108.3	121.4	142.9	161.9	180.9	200.0	217.8
82.5°	113.1	92.9	76.2	69.0	76.2	94.0	114.3	136.9	155.9	176.2	194.0
85°	89.3	67.9	48.8	41.7	50.0	69.0	91.7	114.3	135.7	155.9	173.8
87.5°	70.2	48.8	29.8	20.2	31.0	51.2	72.6	95.2	117.9	138.1	155.9
90°	54.8	34.5	16.7	2.4	17.9	36.9	58.3	79.8	102.4	122.6	140.5
92.5°	46.4	26.2	9.5	0.0	10.7	27.4	47.6	69.0	89.3	109.5	127.4
95°	39.3	21.4	7.1	0.0	7.1	21.4	39.3	58.3	78.6	98.8	116.7
97.5°	33.3	16.7	4.8	0.0	4.8	16.7	32.1	51.2	69.0	88.1	104.8
100°	28.6	14.3	3.6	0.0	3.6	13.1	27.4	44.0	61.9	79.8	95.2
102.5°	25.0	11.9	2.4	0.0	2.4	10.7	22.6	38.1	53.6	70.2	85.7
105°	21.4	9.5	2.4	0.0	1.2	8.3	19.0	33.3	47.6	63.1	77.4
107.5°	19.0	8.3	2.4	0.0	1.2	7.1	16.7	28.6	42.9	55.9	69.0
110°	16.7	7.1	2.4	0.0	1.2	4.8	14.3	25.0	36.9	50.0	63.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	14.3	6.0	1.2	0.0	0.0	3.6	11.9	21.4	32.1	45.2	55.9
115°	13.1	6.0	1.2	0.0	0.0	2.4	9.5	19.0	28.6	40.5	50.0
117.5°	11.9	4.8	1.2	0.0	1.2	2.4	8.3	16.7	25.0	34.5	45.2
120°	10.7	4.8	1.2	0.0	1.2	1.2	6.0	14.3	21.4	31.0	39.3
122.5°	9.5	4.8	1.2	0.0	1.2	1.2	4.8	11.9	19.0	27.4	34.5
125°	8.3	3.6	2.4	1.2	1.2	1.2	3.6	9.5	16.7	22.6	31.0
127.5°	8.3	3.6	2.4	1.2	1.2	1.2	2.4	8.3	13.1	20.2	27.4
130°	7.1	3.6	2.4	1.2	1.2	1.2	1.2	6.0	11.9	16.7	22.6
132.5°	6.0	3.6	2.4	1.2	1.2	1.2	1.2	3.6	8.3	14.3	19.0
135°	6.0	3.6	2.4	1.2	1.2	1.2	1.2	2.4	6.0	10.7	15.5
137.5°	4.8	2.4	2.4	1.2	1.2	1.2	1.2	1.2	4.8	8.3	11.9
140°	4.8	2.4	2.4	1.2	1.2	1.2	1.2	1.2	3.6	6.0	9.5
142.5°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	2.4	4.8	7.1
145°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	4.8
147.5°	3.6	3.6	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6
150°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
152.5°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
155°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
157.5°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
160°	3.6	2.4	2.4	1.2	2.4	1.2	2.4	2.4	2.4	2.4	2.4
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2170.1	2147.5	2159.4	2155.9	2160.6	2170.1	2169.0	2166.6	2166.6	2163.0	2158.2
5°	2163.0	2141.6	2152.3	2146.3	2152.3	2160.6	2159.4	2155.9	2158.2	2152.3	2146.3
7.5°	2148.7	2129.7	2139.2	2134.4	2139.2	2147.5	2144.0	2142.8	2145.1	2135.6	2132.1
10°	2132.1	2110.6	2121.3	2115.4	2121.3	2127.3	2124.9	2120.1	2124.9	2115.4	2111.8
12.5°	2105.9	2088.0	2095.1	2092.8	2096.3	2102.3	2097.5	2094.0	2096.3	2088.0	2080.9
15°	2077.3	2059.4	2065.4	2061.8	2064.2	2071.3	2063.0	2061.8	2059.4	2051.1	2048.7
17.5°	2040.4	2023.7	2029.7	2023.7	2027.3	2024.9	2023.7	2017.8	2017.8	2008.2	2001.1
20°	1995.2	1980.9	1977.3	1972.5	1977.3	1972.5	1965.4	1960.6	1959.4	1949.9	1944.0
22.5°	1942.8	1926.1	1928.5	1915.4	1916.6	1909.4	1897.5	1892.8	1888.0	1877.3	1869.0
25°	1879.7	1863.0	1851.1	1842.8	1832.1	1830.9	1815.4	1803.5	1802.3	1789.2	1788.0
27.5°	1808.3	1789.2	1779.7	1759.4	1746.4	1735.6	1722.5	1710.6	1704.7	1690.4	1680.9
30°	1726.1	1704.7	1680.9	1666.6	1646.4	1638.0	1615.4	1601.1	1596.4	1580.9	1573.7
32.5°	1633.3	1610.6	1591.6	1564.2	1541.6	1529.7	1507.1	1492.8	1486.8	1470.2	1460.7
35°	1532.1	1507.1	1484.5	1458.3	1440.4	1420.2	1392.8	1378.5	1365.4	1359.5	1352.3
37.5°	1426.1	1398.7	1372.6	1346.4	1330.9	1307.1	1283.3	1273.8	1258.3	1252.3	1245.2
40°	1316.6	1289.2	1264.2	1239.2	1221.4	1199.9	1178.5	1174.9	1158.3	1152.3	1147.6
42.5°	1208.3	1179.7	1151.1	1133.3	1120.2	1098.8	1084.5	1080.9	1066.6	1063.0	1063.0
45°	1110.7	1075.0	1051.1	1035.7	1025.0	1007.1	995.2	992.8	980.9	978.5	978.5
47.5°	1005.9	972.6	954.7	945.2	935.7	922.6	915.4	915.4	903.5	901.2	900.0
50°	908.3	877.3	864.2	854.7	853.5	844.0	838.1	835.7	835.7	827.3	828.5
52.5°	815.4	800.0	789.3	783.3	776.2	770.2	765.4	765.4	761.9	755.9	758.3
55°	729.7	711.9	713.1	708.3	704.7	701.2	702.4	695.2	694.0	689.3	692.8
57.5°	644.0	644.0	641.6	638.1	632.1	634.5	634.5	634.5	628.5	625.0	628.5
60°	571.4	575.0	569.0	572.6	570.2	571.4	569.0	569.0	565.5	564.3	565.5
62.5°	507.1	513.1	510.7	515.5	513.1	514.3	516.6	511.9	509.5	507.1	509.5
65°	450.0	457.1	455.9	459.5	460.7	461.9	463.1	460.7	458.3	455.9	454.7
67.5°	400.0	407.1	411.9	413.1	414.3	417.8	416.6	414.3	411.9	408.3	407.1
70°	354.7	364.3	370.2	372.6	377.4	375.0	375.0	373.8	371.4	367.8	366.7
72.5°	316.7	327.4	333.3	335.7	340.5	340.5	339.3	338.1	335.7	332.1	330.9
75°	283.3	292.8	301.2	305.9	309.5	309.5	308.3	307.1	304.7	302.4	301.2
77.5°	257.1	265.5	272.6	278.6	280.9	282.1	280.9	278.6	278.6	277.4	276.2
80°	230.9	240.5	247.6	253.6	257.1	257.1	255.9	257.1	254.8	253.6	252.4
82.5°	208.3	219.0	227.4	233.3	235.7	236.9	235.7	236.9	234.5	234.5	234.5
85°	188.1	198.8	208.3	213.1	216.7	217.8	217.8	217.8	216.7	216.7	216.7
87.5°	171.4	182.1	191.7	196.4	200.0	201.2	201.2	202.4	200.0	200.0	200.0
90°	155.9	166.7	176.2	180.9	184.5	186.9	186.9	188.1	186.9	185.7	185.7
92.5°	141.7	153.6	163.1	167.8	171.4	175.0	175.0	176.2	173.8	173.8	173.8
95°	129.8	141.7	150.0	155.9	159.5	161.9	163.1	163.1	161.9	161.9	161.9
97.5°	119.0	129.8	138.1	144.0	147.6	148.8	150.0	151.2	150.0	150.0	150.0
100°	108.3	119.0	127.4	132.1	136.9	138.1	139.3	140.5	140.5	139.3	139.3
102.5°	98.8	109.5	116.7	122.6	126.2	128.6	129.8	129.8	129.8	129.8	129.8
105°	89.3	100.0	107.1	113.1	116.7	119.0	120.2	121.4	121.4	120.2	120.2
107.5°	80.9	90.5	98.8	103.6	108.3	110.7	111.9	111.9	113.1	111.9	111.9
110°	72.6	83.3	90.5	95.2	100.0	102.4	103.6	104.8	104.8	104.8	104.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	66.7	75.0	82.1	86.9	91.7	94.0	95.2	96.4	97.6	96.4	96.4
115°	59.5	67.9	75.0	79.8	83.3	85.7	88.1	89.3	89.3	90.5	89.3
117.5°	53.6	60.7	67.9	72.6	76.2	79.8	80.9	82.1	83.3	82.1	82.1
120°	47.6	54.8	60.7	65.5	69.0	72.6	73.8	75.0	76.2	75.0	75.0
122.5°	42.9	48.8	54.8	59.5	63.1	65.5	67.9	67.9	69.0	69.0	69.0
125°	38.1	44.0	48.8	53.6	57.1	59.5	60.7	61.9	61.9	63.1	63.1
127.5°	33.3	38.1	44.0	47.6	51.2	53.6	54.8	55.9	55.9	57.1	57.1
130°	28.6	33.3	38.1	41.7	45.2	47.6	48.8	50.0	51.2	51.2	51.2
132.5°	25.0	29.8	33.3	36.9	39.3	41.7	44.0	45.2	45.2	45.2	45.2
135°	20.2	25.0	28.6	32.1	34.5	36.9	38.1	40.5	40.5	40.5	40.5
137.5°	16.7	21.4	25.0	27.4	29.8	32.1	33.3	34.5	35.7	35.7	35.7
140°	13.1	16.7	20.2	23.8	26.2	27.4	29.8	29.8	31.0	31.0	31.0
142.5°	9.5	13.1	15.5	19.0	21.4	23.8	25.0	26.2	26.2	26.2	26.2
145°	7.1	9.5	11.9	14.3	17.9	19.0	20.2	21.4	22.6	22.6	22.6
147.5°	4.8	7.1	8.3	10.7	13.1	15.5	16.7	17.9	19.0	19.0	19.0
150°	3.6	4.8	7.1	8.3	9.5	11.9	14.3	14.3	15.5	15.5	14.3
152.5°	2.4	3.6	4.8	6.0	7.1	8.3	10.7	10.7	11.9	11.9	11.9
155°	2.4	2.4	2.4	3.6	4.8	6.0	7.1	8.3	8.3	8.3	8.3
157.5°	2.4	2.4	2.4	2.4	2.4	3.6	4.8	6.0	6.0	6.0	6.0
160°	2.4	2.4	1.2	1.2	2.4	2.4	2.4	2.4	3.6	3.6	3.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2161.8	2164.2	2164.2	2161.8	2160.6	2165.4	2159.4	2136.8	2144.0	2146.3	2153.5
5°	2151.1	2153.5	2153.5	2153.5	2151.1	2155.9	2149.9	2127.3	2135.6	2139.2	2144.0
7.5°	2135.6	2136.8	2139.2	2138.0	2135.6	2142.8	2136.8	2114.2	2120.1	2126.1	2132.1
10°	2115.4	2115.4	2116.6	2119.0	2116.6	2122.5	2116.6	2096.3	2102.3	2105.9	2113.0
12.5°	2088.0	2090.4	2091.6	2090.4	2089.2	2094.0	2091.6	2072.5	2074.9	2082.1	2089.2
15°	2051.1	2051.1	2057.1	2054.7	2054.7	2059.4	2061.8	2040.4	2044.0	2054.7	2061.8
17.5°	2005.9	2007.1	2011.8	2014.2	2013.0	2021.3	2022.5	2005.9	2004.7	2017.8	2024.9
20°	1947.5	1949.9	1955.9	1960.6	1960.6	1970.2	1973.7	1963.0	1964.2	1978.5	1980.9
22.5°	1876.1	1876.1	1886.8	1894.0	1899.9	1905.9	1916.6	1907.1	1907.1	1926.1	1936.8
25°	1788.0	1796.4	1799.9	1814.2	1822.5	1839.2	1848.7	1849.9	1851.1	1869.0	1876.1
27.5°	1690.4	1692.8	1703.5	1720.2	1729.7	1745.2	1763.0	1766.6	1772.5	1796.4	1807.1
30°	1579.7	1586.8	1591.6	1615.4	1628.5	1648.7	1671.4	1679.7	1684.5	1716.6	1729.7
32.5°	1466.6	1469.0	1489.2	1502.3	1517.8	1539.2	1565.4	1580.9	1590.4	1623.7	1642.8
35°	1353.5	1358.3	1374.9	1391.6	1407.1	1428.5	1455.9	1477.3	1494.0	1523.7	1548.7
37.5°	1249.9	1261.8	1265.4	1282.1	1294.0	1315.4	1334.5	1365.4	1382.1	1413.0	1445.2
40°	1157.1	1160.7	1163.0	1179.7	1188.0	1208.3	1235.7	1255.9	1278.5	1301.1	1339.2
42.5°	1065.4	1067.8	1071.4	1080.9	1090.4	1104.7	1125.0	1145.2	1169.0	1202.3	1227.3
45°	980.9	983.3	985.7	991.6	1000.0	1013.1	1026.1	1040.4	1064.2	1092.8	1119.0
47.5°	902.3	907.1	907.1	908.3	914.2	925.0	934.5	952.3	965.4	980.9	1010.7
50°	827.3	830.9	832.1	832.1	835.7	842.8	845.2	857.1	869.0	883.3	904.7
52.5°	757.1	757.1	755.9	760.7	760.7	765.4	766.6	773.8	782.1	797.6	807.1
55°	690.4	690.4	694.0	691.6	691.6	694.0	692.8	694.0	701.2	710.7	719.0
57.5°	626.2	625.0	628.5	626.2	625.0	627.4	629.7	625.0	626.2	635.7	635.7
60°	561.9	563.1	566.6	564.3	564.3	564.3	561.9	559.5	557.1	563.1	565.5
62.5°	510.7	507.1	510.7	507.1	509.5	508.3	505.9	501.2	502.4	500.0	497.6
65°	457.1	457.1	458.3	454.7	457.1	457.1	453.6	452.4	445.2	442.8	436.9
67.5°	410.7	410.7	411.9	409.5	409.5	410.7	407.1	403.6	396.4	392.8	384.5
70°	370.2	370.2	370.2	369.0	369.0	369.0	366.7	361.9	354.7	348.8	338.1
72.5°	333.3	334.5	333.3	333.3	336.9	333.3	329.7	325.0	319.0	307.1	297.6
75°	303.6	304.7	303.6	303.6	303.6	302.4	301.2	294.0	286.9	277.4	263.1
77.5°	277.4	277.4	278.6	277.4	277.4	276.2	272.6	266.7	258.3	250.0	233.3
80°	252.4	253.6	254.8	255.9	253.6	252.4	248.8	244.0	233.3	223.8	207.1
82.5°	234.5	233.3	234.5	235.7	233.3	232.1	228.6	222.6	214.3	201.2	184.5
85°	216.7	215.5	215.5	216.7	215.5	213.1	209.5	203.6	195.2	182.1	165.5
87.5°	198.8	200.0	201.2	200.0	198.8	196.4	192.8	186.9	177.4	166.7	148.8
90°	185.7	185.7	185.7	185.7	184.5	182.1	178.6	171.4	163.1	150.0	134.5
92.5°	173.8	173.8	173.8	173.8	172.6	169.0	165.5	159.5	150.0	136.9	122.6
95°	161.9	163.1	161.9	161.9	159.5	158.3	152.4	146.4	138.1	125.0	109.5
97.5°	148.8	150.0	148.8	148.8	147.6	145.2	141.7	134.5	126.2	114.3	100.0
100°	139.3	139.3	138.1	138.1	136.9	134.5	129.8	123.8	115.5	103.6	89.3
102.5°	128.6	129.8	128.6	128.6	126.2	123.8	120.2	114.3	105.9	94.0	80.9
105°	120.2	120.2	119.0	119.0	116.7	114.3	110.7	103.6	96.4	85.7	72.6
107.5°	111.9	111.9	110.7	110.7	108.3	105.9	101.2	95.2	88.1	77.4	65.5
110°	103.6	103.6	103.6	102.4	100.0	96.4	92.9	86.9	79.8	70.2	58.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	97.6	96.4	95.2	94.0	91.7	89.3	84.5	78.6	71.4	63.1	52.4
115°	89.3	89.3	88.1	86.9	84.5	80.9	77.4	72.6	65.5	55.9	46.4
117.5°	82.1	82.1	80.9	79.8	77.4	73.8	70.2	65.5	58.3	50.0	41.7
120°	75.0	75.0	73.8	72.6	70.2	66.7	64.3	58.3	52.4	44.0	36.9
122.5°	69.0	67.9	67.9	65.5	64.3	60.7	57.1	52.4	46.4	39.3	32.1
125°	61.9	61.9	60.7	59.5	58.3	54.8	51.2	46.4	40.5	34.5	28.6
127.5°	55.9	55.9	54.8	53.6	52.4	48.8	45.2	41.7	35.7	29.8	23.8
130°	50.0	50.0	48.8	47.6	46.4	42.9	40.5	35.7	31.0	26.2	20.2
132.5°	45.2	45.2	44.0	42.9	40.5	38.1	35.7	31.0	27.4	22.6	17.9
135°	40.5	39.3	39.3	38.1	35.7	33.3	31.0	27.4	22.6	19.0	14.3
137.5°	35.7	34.5	33.3	32.1	31.0	28.6	26.2	23.8	20.2	15.5	11.9
140°	31.0	29.8	29.8	28.6	26.2	25.0	22.6	19.0	16.7	13.1	9.5
142.5°	26.2	26.2	25.0	23.8	22.6	21.4	19.0	16.7	13.1	10.7	7.1
145°	22.6	21.4	21.4	20.2	19.0	16.7	15.5	13.1	10.7	8.3	6.0
147.5°	17.9	17.9	17.9	16.7	15.5	14.3	13.1	10.7	8.3	6.0	3.6
150°	14.3	14.3	14.3	13.1	11.9	10.7	9.5	8.3	6.0	3.6	2.4
152.5°	11.9	11.9	10.7	10.7	9.5	8.3	7.1	6.0	3.6	2.4	2.4
155°	8.3	8.3	8.3	7.1	7.1	6.0	4.8	3.6	2.4	2.4	2.4
157.5°	6.0	6.0	6.0	4.8	4.8	3.6	3.6	2.4	2.4	2.4	2.4
160°	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2149.9	2148.7	2158.2	2158.2	2147.5	2164.2	2182.0
5°	2142.8	2141.6	2151.1	2151.1	2141.6	2158.2	2177.3
7.5°	2128.5	2129.7	2139.2	2141.6	2129.7	2145.1	2165.4
10°	2113.0	2111.8	2122.5	2124.9	2115.4	2129.7	2148.7
12.5°	2088.0	2088.0	2098.7	2102.3	2092.8	2109.4	2127.3
15°	2061.8	2061.8	2069.0	2074.9	2066.6	2082.1	2099.9
17.5°	2028.5	2027.3	2034.4	2041.6	2033.2	2049.9	2069.0
20°	1985.6	1985.6	1994.0	2002.3	1996.3	2011.8	2033.2
22.5°	1940.4	1935.6	1949.9	1955.9	1952.3	1967.8	1989.2
25°	1883.3	1882.1	1896.3	1904.7	1899.9	1916.6	1935.6
27.5°	1821.3	1820.2	1834.4	1845.2	1842.8	1858.3	1879.7
30°	1746.4	1752.3	1765.4	1783.3	1777.3	1794.0	1816.6
32.5°	1667.8	1673.7	1689.2	1708.3	1709.4	1722.5	1745.2
35°	1573.7	1589.2	1599.9	1624.9	1629.7	1642.8	1666.6
37.5°	1474.9	1492.8	1515.4	1534.5	1544.0	1554.7	1582.1
40°	1364.2	1390.4	1415.4	1438.0	1449.9	1460.7	1486.8
42.5°	1264.2	1284.5	1308.3	1330.9	1352.3	1361.8	1389.2
45°	1151.1	1174.9	1196.4	1223.8	1245.2	1255.9	1283.3
47.5°	1040.4	1064.2	1092.8	1111.9	1134.5	1145.2	1171.4
50°	934.5	955.9	979.7	1002.3	1021.4	1030.9	1053.5
52.5°	829.7	852.3	875.0	889.2	909.5	916.6	935.7
55°	736.9	752.3	772.6	780.9	801.2	805.9	819.0
57.5°	647.6	658.3	665.4	679.7	694.0	704.7	720.2
60°	566.6	571.4	576.2	584.5	596.4	600.0	605.9
62.5°	494.0	492.8	502.4	504.7	505.9	517.8	511.9
65°	429.7	430.9	422.6	419.0	423.8	427.4	425.0
67.5°	376.2	369.0	361.9	353.6	346.4	350.0	346.4
70°	323.8	317.8	305.9	294.0	289.3	282.1	278.6
72.5°	282.1	267.8	255.9	240.5	232.1	223.8	217.8
75°	250.0	229.8	213.1	196.4	184.5	172.6	170.2
77.5°	216.7	197.6	178.6	160.7	142.9	129.8	125.0
80°	190.5	172.6	150.0	128.6	109.5	92.9	86.9
82.5°	166.7	147.6	125.0	102.4	80.9	63.1	55.9
85°	146.4	126.2	103.6	80.9	59.5	40.5	31.0
87.5°	130.9	108.3	85.7	64.3	41.7	22.6	11.9
90°	116.7	95.2	73.8	51.2	29.8	11.9	0.0
92.5°	103.6	83.3	61.9	41.7	22.6	7.1	1.2
95°	91.7	73.8	52.4	33.3	16.7	4.8	1.2
97.5°	82.1	64.3	45.2	27.4	13.1	3.6	1.2
100°	73.8	55.9	39.3	22.6	10.7	2.4	1.2
102.5°	65.5	50.0	33.3	19.0	8.3	1.2	1.2
105°	58.3	44.0	28.6	16.7	7.1	1.2	1.2
107.5°	52.4	39.3	25.0	14.3	4.8	1.2	1.2
110°	46.4	33.3	21.4	11.9	3.6	1.2	1.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	41.7	29.8	19.0	9.5	2.4	1.2	1.2
115°	36.9	26.2	16.7	8.3	2.4	1.2	1.2
117.5°	32.1	22.6	14.3	6.0	1.2	1.2	1.2
120°	28.6	20.2	11.9	4.8	1.2	1.2	1.2
122.5°	25.0	16.7	9.5	3.6	1.2	1.2	1.2
125°	21.4	14.3	8.3	2.4	1.2	1.2	1.2
127.5°	17.9	11.9	6.0	2.4	1.2	1.2	1.2
130°	15.5	9.5	4.8	1.2	1.2	1.2	1.2
132.5°	13.1	7.1	3.6	1.2	1.2	1.2	1.2
135°	10.7	6.0	2.4	1.2	1.2	1.2	1.2
137.5°	8.3	4.8	2.4	1.2	1.2	1.2	1.2
140°	6.0	3.6	1.2	1.2	1.2	1.2	1.2
142.5°	4.8	2.4	1.2	1.2	1.2	1.2	1.2
145°	3.6	2.4	1.2	1.2	1.2	1.2	1.2
147.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2
150°	2.4	2.4	1.2	1.2	2.4	1.2	1.2
152.5°	2.4	1.2	1.2	1.2	2.4	1.2	1.2
155°	2.4	2.4	2.4	2.4	2.4	2.4	1.2
157.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
160°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)