

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-LC-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

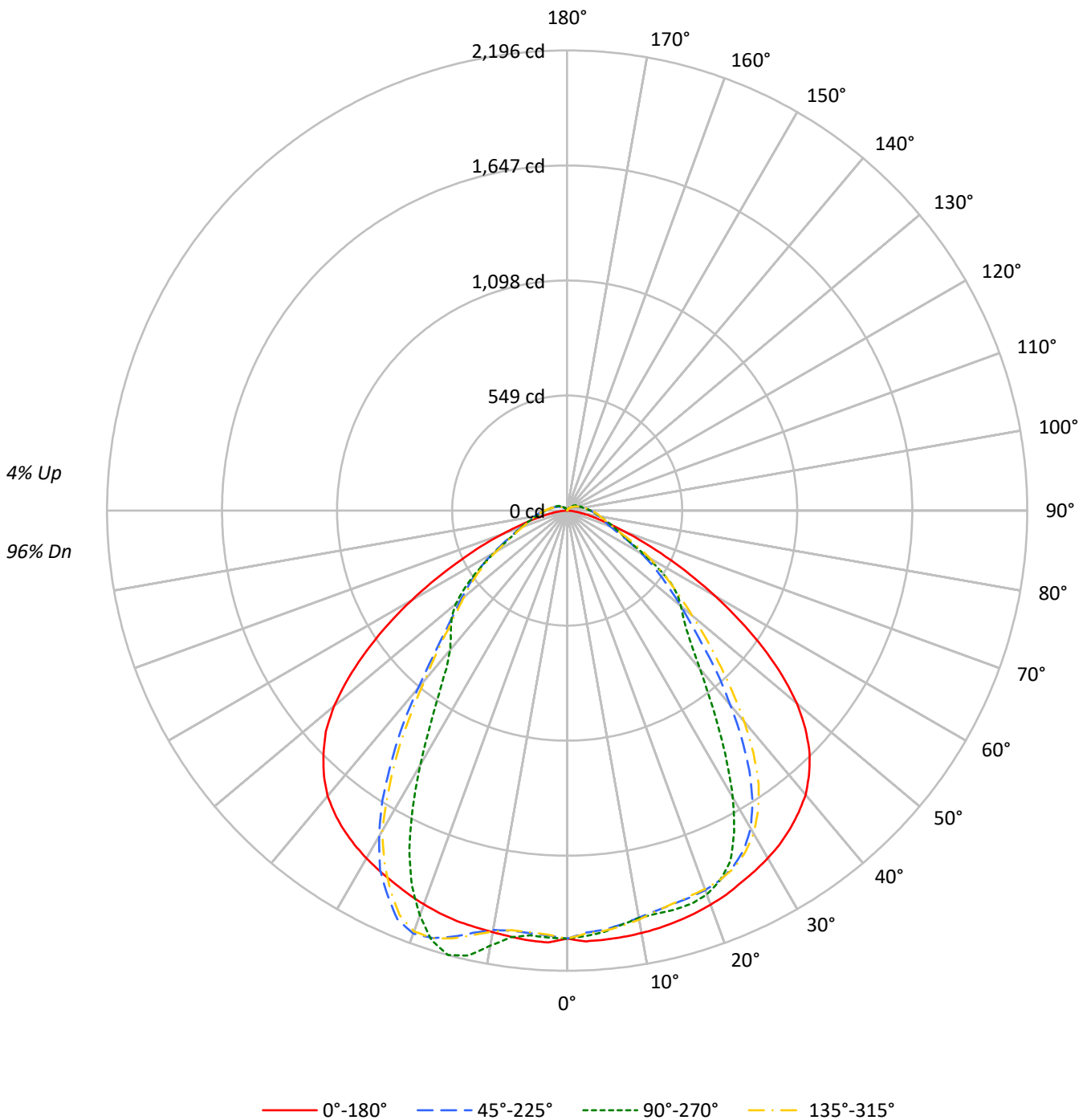
Lumens per Lamp: N/A  
Luminaire Lumens: 4870.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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	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°	8254	8254	8254	8254
5°	8326	7927	8343	7989
10°	8376	7597	8358	8113
15°	8452	7495	8448	8346
20°	8558	7377	8549	7776
25°	8677	6998	8673	6762
30°	8856	6065	8860	5373
35°	9046	4905	9071	4150
40°	9218	3949	9257	3479
45°	9208	3345	9255	3257
50°	8836	3080	8960	3011
55°	7867	2768	8063	2516
60°	6409	2118	6750	1943
65°	4793	1621	5164	1537
70°	3287	1399	3705	1338
75°	2179	1263	2537	1194
80°	1443	1177	1691	1083
85°	787	1174	1038	1073



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.0	4.0
10°-20°	577.4	11.9
20°-30°	877.7	18.0
30°-40°	941.6	19.3
40°-50°	817.2	16.8
50°-60°	605.6	12.4
60°-70°	347.0	7.1
70°-80°	192.2	3.9
80°-90°	117.0	2.4
90°-100°	76.1	1.6
100°-110°	51.0	1.0
110°-120°	34.4	0.7
120°-130°	21.1	0.4
130°-140°	11.1	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°	1649.1	33.9
0°-40°	2590.7	53.2
0°-60°	4013.6	82.4
0°-90°	4669.8	95.9
90°-120°	161.5	3.3
90°-150°	198.8	4.1
90°-180°	200.0	4.1
0°-180°	4870.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2043	2043	2043	2043	2043	
5°	2056	2019	2060	2034	2056	196
15°	2029	1972	2028	2196	2029	574
25°	1960	1844	1960	1782	1960	906
35°	1854	1256	1859	1063	1854	1160
45°	1637	805	1645	784	1637	1253
55°	1142	604	1170	549	1142	1012
65°	518	306	558	290	518	522
75°	148	194	172	184	148	169
85°	20	134	26	122	20	26
90°	0	112	2	103	0	1
95°	1	92	0	88	1	1
105°	1	69	1	65	1	1
115°	1	56	1	51	1	1
125°	1	42	1	35	1	1
135°	1	26	1	22	1	1
145°	1	16	2	13	1	1
155°	2	7	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#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2057.6	2052.3	2050.2	2046.0	2049.2	2061.8	2053.4	2039.7	2040.7	2016.5	2029.1
5°	2055.5	2049.2	2046.0	2041.8	2043.9	2055.5	2047.1	2033.3	2032.3	2008.0	2019.6
7.5°	2052.3	2046.0	2040.7	2037.6	2038.6	2048.1	2037.6	2021.7	2018.6	1992.2	2002.7
10°	2047.1	2042.8	2035.5	2030.2	2029.1	2039.7	2022.8	2007.0	1999.6	1972.1	1982.7
12.5°	2039.7	2033.3	2026.0	2016.5	2015.4	2021.7	2008.0	1985.9	1978.5	1956.3	1967.9
15°	2029.1	2021.7	2013.3	2002.7	1997.5	2001.7	1984.8	1964.8	1963.7	1944.7	1960.5
17.5°	2017.5	2007.0	1997.5	1982.7	1975.3	1978.5	1964.8	1946.8	1948.9	1937.3	1955.3
20°	2001.7	1990.1	1975.3	1960.5	1950.0	1955.3	1945.8	1932.0	1935.2	1926.8	1942.6
22.5°	1983.8	1967.9	1950.0	1933.1	1924.7	1932.0	1924.7	1913.1	1914.1	1908.8	1918.3
25°	1960.5	1942.6	1921.5	1900.4	1896.2	1901.4	1897.2	1887.7	1883.5	1875.1	1879.3
27.5°	1939.4	1919.4	1893.0	1870.8	1863.5	1874.0	1864.5	1848.7	1837.1	1825.5	1817.0
30°	1915.2	1890.9	1861.3	1836.0	1829.7	1833.9	1820.2	1795.9	1765.3	1750.6	1727.3
32.5°	1888.8	1857.1	1820.2	1791.7	1787.5	1784.3	1759.0	1724.2	1676.7	1647.1	1611.3
35°	1854.0	1819.1	1774.8	1740.0	1733.7	1715.7	1674.6	1628.2	1567.0	1516.3	1455.1
37.5°	1814.9	1773.8	1727.3	1680.9	1663.0	1627.1	1569.1	1520.5	1427.7	1366.5	1292.6
40°	1770.6	1721.0	1664.0	1608.1	1578.6	1520.5	1454.0	1382.3	1292.6	1210.3	1148.0
42.5°	1709.4	1656.6	1589.1	1526.9	1476.2	1399.2	1321.1	1219.8	1137.5	1067.8	1004.5
45°	1636.6	1573.3	1495.2	1420.3	1355.9	1264.1	1172.3	1071.0	1002.4	921.2	877.9
47.5°	1542.7	1474.1	1390.7	1307.4	1223.0	1121.7	1025.6	928.6	860.0	801.9	770.3
50°	1431.9	1368.6	1276.8	1177.6	1084.7	979.2	883.2	810.4	743.9	708.0	683.8
52.5°	1294.7	1235.6	1141.7	1034.1	944.4	841.0	753.4	694.3	646.8	620.4	612.0
55°	1141.7	1090.0	997.2	896.9	805.1	710.1	643.7	592.0	561.4	545.5	546.6
57.5°	978.2	938.1	850.5	760.8	674.3	602.5	542.4	501.2	478.0	476.9	480.1
60°	814.6	785.1	709.1	632.1	556.1	498.0	453.7	425.2	410.5	411.5	410.5
62.5°	658.4	631.0	576.1	512.8	452.7	413.6	373.5	361.9	349.3	348.2	348.2
65°	518.1	497.0	452.7	407.3	361.9	336.6	316.6	302.8	293.3	291.2	292.3
67.5°	389.4	380.9	350.3	319.7	291.2	275.4	258.5	255.4	248.0	248.0	250.1
70°	290.2	283.8	267.0	249.0	237.4	226.9	218.4	218.4	217.4	216.3	221.6
72.5°	210.0	211.0	205.8	192.0	191.0	188.9	186.8	189.9	191.0	194.2	200.5
75°	147.7	150.9	150.9	148.8	153.0	158.3	161.4	166.7	173.1	177.3	184.7
77.5°	104.5	104.5	109.7	116.1	124.5	134.0	142.5	149.8	158.3	163.6	169.9
80°	67.5	70.7	79.1	90.7	102.4	115.0	126.6	136.1	144.6	153.0	157.2
82.5°	40.1	45.4	55.9	70.7	85.5	101.3	112.9	124.5	134.0	142.5	145.6
85°	20.0	27.4	40.1	55.9	71.8	88.6	103.4	114.0	124.5	131.9	136.1
87.5°	6.3	14.8	28.5	43.3	60.1	77.0	92.9	104.5	114.0	120.3	124.5
90°	0.0	7.4	20.0	35.9	51.7	68.6	83.4	96.0	105.5	110.8	114.0
92.5°	0.0	4.2	15.8	29.5	44.3	61.2	76.0	87.6	96.0	101.3	103.4
95°	1.1	3.2	11.6	24.3	39.0	54.9	68.6	79.1	87.6	92.9	93.9
97.5°	1.1	2.1	9.5	20.0	33.8	48.5	62.3	72.8	79.1	84.4	85.5
100°	1.1	2.1	7.4	17.9	29.5	43.3	55.9	65.4	72.8	77.0	78.1
102.5°	1.1	1.1	6.3	14.8	26.4	38.0	49.6	59.1	65.4	69.6	71.8
105°	1.1	1.1	5.3	12.7	23.2	33.8	44.3	53.8	59.1	63.3	65.4
107.5°	1.1	1.1	4.2	10.6	20.0	29.5	40.1	47.5	53.8	58.0	60.1
110°	1.1	1.1	3.2	9.5	16.9	26.4	34.8	42.2	48.5	52.8	54.9



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CATALOG NUMBER: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	1.1	3.2	8.4	14.8	23.2	30.6	38.0	43.3	47.5	50.6
115°	1.1	1.1	3.2	7.4	13.7	20.0	27.4	33.8	39.0	43.3	46.4
117.5°	1.1	1.1	3.2	6.3	11.6	17.9	24.3	30.6	34.8	39.0	42.2
120°	1.1	1.1	2.1	5.3	10.6	15.8	21.1	26.4	31.7	35.9	39.0
122.5°	1.1	1.1	2.1	5.3	8.4	13.7	19.0	23.2	28.5	31.7	34.8
125°	1.1	1.1	2.1	4.2	7.4	12.7	16.9	21.1	24.3	28.5	31.7
127.5°	1.1	1.1	2.1	4.2	6.3	10.6	14.8	19.0	22.2	25.3	27.4
130°	1.1	1.1	2.1	3.2	5.3	8.4	12.7	15.8	20.0	22.2	24.3
132.5°	1.1	1.1	1.1	3.2	4.2	6.3	9.5	13.7	16.9	20.0	21.1
135°	1.1	1.1	1.1	2.1	4.2	5.3	7.4	10.6	13.7	16.9	19.0
137.5°	1.1	1.1	1.1	2.1	3.2	5.3	6.3	8.4	11.6	13.7	16.9
140°	1.1	1.1	1.1	2.1	3.2	4.2	5.3	7.4	9.5	11.6	13.7
142.5°	1.1	1.1	1.1	2.1	2.1	3.2	4.2	6.3	7.4	9.5	11.6
145°	1.1	1.1	1.1	2.1	2.1	3.2	4.2	5.3	6.3	7.4	9.5
147.5°	1.1	1.1	1.1	2.1	2.1	2.1	3.2	4.2	5.3	6.3	7.4
150°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.2	5.3	6.3
152.5°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.2	5.3
155°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.2	4.2
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2024.9	2027.0	2039.7	2038.6	2036.5	2034.4	2034.4	2032.3	2034.4	2039.7	2037.6
5°	2014.4	2017.5	2027.0	2026.0	2023.8	2022.8	2021.7	2018.6	2020.7	2028.1	2026.0
7.5°	1995.4	1998.5	2007.0	2002.7	1999.6	2001.7	1996.4	1993.2	1997.5	2004.9	2003.8
10°	1975.3	1977.4	1988.0	1985.9	1980.6	1981.6	1976.4	1974.3	1979.5	1983.8	1984.8
12.5°	1961.6	1969.0	1978.5	1977.4	1976.4	1977.4	1972.1	1970.0	1973.2	1977.4	1976.4
15°	1958.4	1967.9	1978.5	1978.5	1979.5	1980.6	1975.3	1972.1	1975.3	1978.5	1977.4
17.5°	1955.3	1966.9	1976.4	1975.3	1976.4	1978.5	1970.0	1967.9	1972.1	1976.4	1974.3
20°	1944.7	1955.3	1961.6	1959.5	1959.5	1960.5	1950.0	1950.0	1956.3	1959.5	1960.5
22.5°	1915.2	1927.8	1927.8	1922.6	1922.6	1918.3	1915.2	1908.8	1916.2	1921.5	1925.7
25°	1870.8	1876.1	1869.8	1858.2	1851.9	1846.6	1831.8	1844.5	1844.5	1860.3	1865.6
27.5°	1808.6	1797.0	1779.0	1754.8	1749.5	1732.6	1723.1	1726.3	1731.6	1753.7	1770.6
30°	1706.2	1671.4	1640.8	1630.3	1607.0	1590.2	1573.3	1581.7	1591.2	1603.9	1638.7
32.5°	1571.2	1537.4	1487.8	1469.9	1445.6	1424.5	1404.5	1417.1	1434.0	1442.4	1480.4
35°	1416.1	1376.0	1330.6	1300.0	1274.7	1263.1	1237.7	1255.7	1273.6	1279.9	1312.7
37.5°	1251.5	1210.3	1170.2	1143.8	1119.6	1112.2	1095.3	1107.9	1121.7	1131.2	1158.6
40°	1095.3	1057.3	1026.7	1008.8	991.9	985.5	979.2	984.5	995.0	1002.4	1023.5
42.5°	961.3	930.7	909.6	899.0	887.4	879.0	880.0	882.1	887.4	903.2	912.7
45°	844.1	826.2	812.5	810.4	803.0	801.9	800.9	805.1	808.3	817.8	825.2
47.5°	750.2	742.9	739.7	743.9	747.1	742.9	745.0	750.2	756.6	756.6	755.5
50°	676.4	678.5	682.7	692.2	698.5	700.6	702.8	709.1	710.1	712.3	709.1
52.5°	616.2	618.3	629.9	644.7	652.1	655.3	659.5	665.8	665.8	667.9	663.7
55°	555.0	558.2	569.8	584.6	590.9	595.1	599.3	603.6	606.7	611.0	607.8
57.5°	487.5	497.0	504.4	508.6	512.8	516.0	519.2	520.2	526.5	527.6	532.9
60°	415.7	417.9	425.2	424.2	421.0	429.5	425.2	432.6	440.0	449.5	450.6
62.5°	347.2	348.2	353.5	351.4	355.6	354.5	357.7	357.7	363.0	367.2	372.5
65°	293.3	294.4	298.6	298.6	297.6	300.7	303.9	306.0	306.0	309.2	313.4
67.5°	253.2	256.4	260.6	262.7	264.9	264.9	268.0	269.1	271.2	272.2	274.3
70°	225.8	230.0	234.3	236.4	237.4	239.5	240.6	240.6	242.7	243.7	245.9
72.5°	205.8	210.0	213.1	213.1	215.3	216.3	216.3	217.4	218.4	220.5	222.6
75°	188.9	192.0	194.2	193.1	193.1	193.1	194.2	194.2	196.3	198.4	200.5
77.5°	173.1	176.2	176.2	174.1	174.1	174.1	174.1	175.2	176.2	178.3	180.4
80°	161.4	161.4	160.4	160.4	158.3	157.2	157.2	158.3	158.3	160.4	163.6
82.5°	148.8	148.8	147.7	146.7	145.6	144.6	144.6	145.6	146.7	147.7	149.8
85°	137.2	137.2	135.1	135.1	134.0	134.0	134.0	134.0	135.1	136.1	138.2
87.5°	125.6	124.5	123.5	122.4	122.4	122.4	122.4	122.4	123.5	125.6	126.6
90°	114.0	112.9	111.8	111.8	110.8	110.8	111.8	111.8	112.9	114.0	115.0
92.5°	103.4	102.4	101.3	101.3	100.2	100.2	101.3	100.2	102.4	102.4	103.4
95°	93.9	92.9	91.8	91.8	91.8	91.8	91.8	91.8	92.9	92.9	93.9
97.5°	85.5	84.4	83.4	83.4	84.4	83.4	84.4	84.4	84.4	85.5	86.5
100°	78.1	77.0	77.0	78.1	77.0	77.0	78.1	78.1	78.1	78.1	79.1
102.5°	71.8	71.8	71.8	71.8	71.8	71.8	72.8	72.8	72.8	72.8	73.9
105°	65.4	66.5	66.5	66.5	67.5	67.5	67.5	68.6	68.6	68.6	68.6
107.5°	61.2	62.3	62.3	63.3	63.3	64.4	64.4	64.4	64.4	65.4	65.4
110°	57.0	58.0	59.1	60.1	60.1	61.2	61.2	61.2	61.2	61.2	61.2





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	52.8	53.8	54.9	57.0	58.0	58.0	58.0	58.0	59.1	59.1	58.0
115°	48.5	50.6	51.7	53.8	54.9	54.9	55.9	55.9	55.9	55.9	54.9
117.5°	44.3	47.5	48.5	50.6	51.7	51.7	52.8	52.8	52.8	52.8	51.7
120°	41.2	43.3	45.4	46.4	47.5	48.5	48.5	49.6	49.6	49.6	48.5
122.5°	38.0	40.1	42.2	43.3	44.3	45.4	45.4	45.4	45.4	45.4	45.4
125°	33.8	35.9	38.0	39.0	40.1	41.2	41.2	42.2	42.2	42.2	41.2
127.5°	30.6	32.7	33.8	35.9	36.9	36.9	38.0	38.0	38.0	38.0	36.9
130°	26.4	28.5	30.6	31.7	32.7	32.7	33.8	33.8	33.8	33.8	33.8
132.5°	23.2	25.3	26.4	28.5	28.5	29.5	29.5	30.6	30.6	30.6	29.5
135°	21.1	22.2	23.2	25.3	25.3	26.4	26.4	26.4	26.4	26.4	26.4
137.5°	19.0	20.0	21.1	22.2	22.2	23.2	23.2	23.2	23.2	24.3	23.2
140°	15.8	17.9	19.0	19.0	20.0	20.0	20.0	21.1	21.1	21.1	20.0
142.5°	13.7	14.8	15.8	16.9	17.9	17.9	17.9	17.9	19.0	17.9	17.9
145°	10.6	12.7	13.7	14.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
147.5°	8.4	9.5	11.6	12.7	12.7	13.7	13.7	13.7	13.7	13.7	13.7
150°	7.4	7.4	9.5	10.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
152.5°	5.3	6.3	7.4	8.4	9.5	9.5	9.5	9.5	9.5	9.5	9.5
155°	5.3	5.3	6.3	6.3	7.4	7.4	7.4	7.4	8.4	7.4	7.4
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: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2034.4	2033.3	2037.6	2033.3	2012.2	2020.7	2017.5	2029.1	2030.2	2033.3	2043.9
5°	2023.8	2023.8	2029.1	2024.9	2004.9	2013.3	2012.2	2023.8	2026.0	2028.1	2039.7
7.5°	2002.7	2003.8	2011.2	2008.0	1986.9	1999.6	1998.5	2012.2	2016.5	2020.7	2031.2
10°	1982.7	1981.6	1990.1	1986.9	1966.9	1981.6	1980.6	1994.3	2000.6	2008.0	2020.7
12.5°	1972.1	1969.0	1972.1	1969.0	1946.8	1958.4	1959.5	1975.3	1982.7	1992.2	2007.0
15°	1972.1	1966.9	1966.9	1960.5	1935.2	1942.6	1943.7	1954.2	1963.7	1973.2	1991.1
17.5°	1970.0	1964.8	1963.7	1958.4	1931.0	1931.0	1929.9	1937.3	1942.6	1952.1	1971.1
20°	1958.4	1956.3	1955.3	1952.1	1926.8	1922.6	1920.4	1920.4	1923.6	1926.8	1945.8
22.5°	1927.8	1929.9	1932.0	1934.2	1914.1	1906.7	1907.8	1905.7	1902.5	1902.5	1918.3
25°	1870.8	1881.4	1889.8	1899.3	1887.7	1882.5	1888.8	1885.6	1880.3	1876.1	1889.8
27.5°	1780.1	1802.3	1820.2	1843.4	1844.5	1840.2	1857.1	1855.0	1854.0	1847.6	1858.2
30°	1654.5	1689.4	1713.6	1747.4	1775.9	1780.1	1808.6	1812.8	1817.0	1813.9	1824.4
32.5°	1502.6	1550.1	1591.2	1644.0	1671.4	1695.7	1735.8	1752.7	1769.5	1774.8	1786.4
35°	1336.9	1390.7	1439.3	1497.3	1540.6	1593.3	1641.9	1667.2	1705.2	1720.0	1736.8
37.5°	1179.7	1230.3	1277.8	1335.9	1405.5	1460.4	1520.5	1577.5	1629.2	1650.3	1675.6
40°	1040.4	1081.6	1126.9	1177.6	1240.9	1312.7	1378.1	1457.2	1518.4	1560.6	1597.6
42.5°	934.9	954.9	994.0	1039.4	1090.0	1162.8	1229.3	1317.9	1391.8	1451.9	1513.1
45°	841.0	850.5	879.0	903.2	954.9	1019.3	1090.0	1176.5	1253.6	1330.6	1404.5
47.5°	760.8	772.4	786.1	800.9	837.8	891.6	952.8	1030.9	1107.9	1197.6	1282.1
50°	707.0	710.1	712.3	718.6	740.7	777.7	827.3	893.7	967.6	1063.6	1153.3
52.5°	659.5	659.5	653.2	650.0	658.4	681.7	710.1	757.6	833.6	922.2	1017.2
55°	608.8	599.3	597.2	586.7	588.8	599.3	613.1	650.0	712.3	788.2	880.0
57.5°	538.1	533.9	533.9	529.7	521.3	526.5	529.7	556.1	600.4	665.8	746.0
60°	456.9	454.8	460.1	461.1	453.7	456.9	455.8	471.7	503.3	556.1	622.6
62.5°	375.6	385.1	386.2	390.4	386.2	385.1	390.4	404.1	420.0	460.1	511.8
65°	315.5	320.8	321.8	327.1	325.0	325.0	329.2	339.8	349.3	376.7	416.8
67.5°	276.5	274.3	275.4	278.6	275.4	274.3	277.5	283.8	291.2	308.1	336.6
70°	245.9	243.7	243.7	243.7	239.5	236.4	237.4	239.5	242.7	252.2	270.1
72.5°	222.6	222.6	219.5	216.3	213.1	211.0	208.9	206.8	205.8	208.9	218.4
75°	201.5	202.6	201.5	198.4	194.2	189.9	185.7	181.5	176.2	174.1	175.2
77.5°	182.5	183.6	184.7	183.6	179.4	174.1	167.8	161.4	154.1	146.7	142.5
80°	165.7	167.8	168.8	167.8	164.6	160.4	153.0	145.6	135.1	125.6	115.0
82.5°	150.9	154.1	155.1	155.1	153.0	148.8	140.3	131.9	120.3	107.6	93.9
85°	139.3	141.4	143.5	143.5	142.5	138.2	129.8	120.3	108.7	93.9	79.1
87.5°	127.7	128.7	130.8	133.0	130.8	126.6	119.2	108.7	97.1	82.3	65.4
90°	116.1	117.1	119.2	121.3	120.3	116.1	109.7	100.2	87.6	71.8	54.9
92.5°	104.5	106.6	107.6	108.7	109.7	106.6	101.3	91.8	79.1	63.3	47.5
95°	96.0	96.0	98.1	99.2	100.2	97.1	92.9	83.4	71.8	57.0	41.2
97.5°	87.6	87.6	89.7	89.7	90.7	88.6	84.4	76.0	64.4	50.6	34.8
100°	79.1	80.2	81.2	82.3	82.3	81.2	77.0	68.6	58.0	45.4	30.6
102.5°	73.9	73.9	74.9	74.9	76.0	73.9	69.6	62.3	51.7	40.1	26.4
105°	68.6	68.6	69.6	69.6	68.6	66.5	62.3	55.9	46.4	34.8	23.2
107.5°	64.4	64.4	64.4	64.4	63.3	61.2	57.0	49.6	41.2	31.7	21.1
110°	61.2	60.1	60.1	59.1	58.0	54.9	50.6	44.3	36.9	27.4	17.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	58.0	57.0	55.9	54.9	52.8	49.6	45.4	40.1	32.7	24.3	15.8
115°	54.9	53.8	52.8	50.6	48.5	45.4	41.2	35.9	28.5	21.1	13.7
117.5°	51.7	50.6	48.5	46.4	44.3	41.2	36.9	31.7	25.3	19.0	12.7
120°	47.5	46.4	45.4	43.3	41.2	36.9	32.7	28.5	22.2	16.9	10.6
122.5°	44.3	43.3	41.2	40.1	36.9	33.8	29.5	25.3	20.0	14.8	9.5
125°	40.1	39.0	38.0	35.9	33.8	29.5	26.4	22.2	17.9	12.7	7.4
127.5°	36.9	35.9	33.8	31.7	29.5	26.4	23.2	20.0	15.8	10.6	7.4
130°	32.7	31.7	30.6	28.5	26.4	23.2	21.1	16.9	13.7	9.5	6.3
132.5°	28.5	28.5	27.4	25.3	23.2	21.1	17.9	14.8	11.6	8.4	5.3
135°	26.4	25.3	24.3	22.2	21.1	17.9	15.8	12.7	9.5	7.4	4.2
137.5°	23.2	22.2	21.1	20.0	17.9	15.8	13.7	10.6	8.4	6.3	4.2
140°	20.0	19.0	19.0	16.9	15.8	13.7	11.6	9.5	7.4	5.3	3.2
142.5°	17.9	16.9	15.8	14.8	13.7	11.6	9.5	7.4	6.3	4.2	3.2
145°	15.8	14.8	13.7	12.7	11.6	9.5	8.4	6.3	5.3	4.2	3.2
147.5°	12.7	12.7	11.6	10.6	9.5	8.4	7.4	6.3	4.2	3.2	2.1
150°	10.6	10.6	9.5	8.4	8.4	7.4	6.3	5.3	4.2	3.2	2.1
152.5°	9.5	8.4	8.4	7.4	7.4	6.3	5.3	4.2	3.2	3.2	2.1
155°	7.4	7.4	7.4	6.3	6.3	5.3	4.2	4.2	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: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2046.0	2033.3	2043.9	2062.9	2060.8	2058.7	2056.6	2060.8	2074.5	2067.1	2055.5
5°	2042.8	2030.2	2041.8	2059.7	2058.7	2055.5	2053.4	2057.6	2071.3	2063.9	2051.3
7.5°	2036.5	2024.9	2033.3	2051.3	2051.3	2049.2	2047.1	2051.3	2063.9	2057.6	2045.0
10°	2026.0	2017.5	2026.0	2042.8	2043.9	2039.7	2037.6	2042.8	2055.5	2052.3	2041.8
12.5°	2017.5	2009.1	2018.6	2035.5	2036.5	2032.3	2029.1	2035.5	2052.3	2054.4	2051.3
15°	2005.9	1998.5	2010.1	2028.1	2028.1	2024.9	2024.9	2033.3	2056.6	2066.1	2071.3
17.5°	1989.0	1983.8	1997.5	2015.4	2016.5	2014.4	2015.4	2032.3	2062.9	2086.1	2100.9
20°	1967.9	1965.8	1980.6	1999.6	2002.7	2003.8	2009.1	2034.4	2076.6	2108.3	2123.0
22.5°	1942.6	1943.7	1960.5	1980.6	1984.8	1988.0	1998.5	2034.4	2087.2	2120.9	2127.3
25°	1914.1	1917.3	1935.2	1959.5	1964.8	1971.1	1989.0	2035.5	2090.3	2112.5	2101.9
27.5°	1883.5	1889.8	1913.1	1938.4	1944.7	1955.3	1978.5	2029.1	2075.6	2076.6	2037.6
30°	1851.9	1859.2	1886.7	1916.2	1926.8	1937.3	1965.8	2014.4	2039.7	2005.9	1937.3
32.5°	1816.0	1826.5	1854.0	1889.8	1902.5	1916.2	1944.7	1985.9	1976.4	1903.6	1805.4
35°	1770.6	1785.4	1817.0	1859.2	1870.8	1888.8	1908.8	1918.3	1876.1	1772.7	1661.9
37.5°	1714.7	1736.8	1773.8	1822.3	1835.0	1846.6	1851.9	1825.5	1741.1	1629.2	1514.2
40°	1650.3	1684.1	1724.2	1778.0	1790.7	1790.7	1771.7	1715.7	1609.2	1462.5	1334.8
42.5°	1572.2	1613.4	1664.0	1717.8	1730.5	1715.7	1670.4	1572.2	1450.9	1287.3	1152.3
45°	1477.3	1532.1	1589.1	1645.0	1651.4	1618.7	1537.4	1412.9	1263.1	1111.1	982.4
47.5°	1364.4	1436.1	1498.4	1561.7	1553.2	1498.4	1389.7	1248.3	1090.0	946.5	843.1
50°	1237.7	1322.1	1391.8	1451.9	1434.0	1358.0	1230.3	1082.6	925.4	803.0	717.5
52.5°	1102.7	1199.7	1269.4	1317.9	1293.7	1202.9	1062.6	921.2	792.4	680.6	623.6
55°	962.3	1060.5	1132.2	1170.2	1138.5	1040.4	902.2	773.5	652.1	579.3	545.5
57.5°	826.2	918.0	985.5	1016.1	976.0	877.9	750.2	641.6	554.0	492.8	475.9
60°	695.4	770.3	834.7	857.9	814.6	723.9	614.1	527.6	463.2	421.0	412.6
62.5°	574.0	635.2	685.9	703.8	661.6	590.9	495.9	431.6	386.2	365.1	354.5
65°	473.8	509.7	561.4	558.2	532.9	467.4	397.8	352.4	322.9	309.2	302.8
67.5°	372.5	405.2	437.9	442.1	410.5	365.1	319.7	287.0	271.2	263.8	260.6
70°	288.1	312.3	332.4	327.1	310.2	281.7	253.2	235.3	229.0	225.8	225.8
72.5°	223.7	236.4	245.9	239.5	229.0	214.2	200.5	193.1	194.2	196.3	198.4
75°	173.1	176.2	178.3	172.0	169.9	160.4	159.3	160.4	166.7	173.1	176.2
77.5°	133.0	128.7	125.6	119.2	120.3	119.2	124.5	133.0	142.5	151.9	160.4
80°	102.4	92.9	85.5	79.1	82.3	87.6	98.1	110.8	123.5	134.0	144.6
82.5°	79.1	65.4	54.9	48.5	54.9	63.3	77.0	92.9	107.6	119.2	130.8
85°	61.2	45.4	32.7	26.4	32.7	45.4	60.1	78.1	93.9	106.6	118.2
87.5°	47.5	32.7	17.9	10.6	17.9	31.7	48.5	65.4	81.2	96.0	107.6
90°	38.0	22.2	8.4	2.1	9.5	22.2	38.0	54.9	70.7	86.5	98.1
92.5°	30.6	15.8	4.2	0.0	5.3	16.9	31.7	47.5	63.3	78.1	89.7
95°	25.3	12.7	3.2	0.0	4.2	12.7	25.3	41.2	55.9	70.7	80.2
97.5°	21.1	9.5	2.1	0.0	2.1	10.6	21.1	34.8	49.6	63.3	72.8
100°	17.9	8.4	2.1	0.0	2.1	8.4	17.9	30.6	43.3	55.9	65.4
102.5°	14.8	6.3	1.1	1.1	1.1	6.3	15.8	26.4	38.0	49.6	59.1
105°	13.7	5.3	1.1	1.1	1.1	5.3	13.7	23.2	33.8	44.3	52.8
107.5°	11.6	4.2	1.1	1.1	1.1	4.2	11.6	20.0	30.6	40.1	47.5
110°	9.5	4.2	1.1	1.1	1.1	4.2	9.5	17.9	26.4	34.8	42.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	8.4	3.2	1.1	1.1	1.1	3.2	8.4	15.8	23.2	31.7	38.0
115°	7.4	3.2	1.1	1.1	1.1	3.2	7.4	13.7	20.0	27.4	33.8
117.5°	6.3	3.2	1.1	1.1	1.1	2.1	6.3	11.6	17.9	24.3	30.6
120°	5.3	2.1	1.1	1.1	1.1	2.1	5.3	10.6	15.8	21.1	26.4
122.5°	5.3	2.1	1.1	1.1	1.1	2.1	4.2	8.4	13.7	17.9	23.2
125°	4.2	2.1	1.1	1.1	1.1	1.1	4.2	7.4	11.6	15.8	20.0
127.5°	4.2	2.1	1.1	1.1	1.1	1.1	3.2	6.3	9.5	13.7	17.9
130°	3.2	2.1	1.1	1.1	1.1	1.1	2.1	5.3	8.4	11.6	14.8
132.5°	3.2	2.1	1.1	1.1	1.1	1.1	2.1	4.2	6.3	9.5	12.7
135°	3.2	1.1	1.1	1.1	1.1	1.1	1.1	3.2	5.3	7.4	9.5
137.5°	2.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	4.2	5.3	8.4
140°	2.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2	4.2	6.3
142.5°	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2	5.3
145°	2.1	1.1	1.1	2.1	2.1	1.1	1.1	2.1	2.1	3.2	4.2
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: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2053.4	2029.1	2041.8	2037.6	2041.8	2052.3	2051.3	2048.1	2050.2	2045.0	2039.7
5°	2049.2	2024.9	2037.6	2032.3	2037.6	2048.1	2046.0	2042.8	2046.0	2039.7	2034.4
7.5°	2043.9	2021.7	2036.5	2035.5	2045.0	2058.7	2059.7	2059.7	2067.1	2057.6	2053.4
10°	2043.9	2032.3	2052.3	2059.7	2084.0	2101.9	2104.0	2108.3	2120.9	2118.8	2108.3
12.5°	2066.1	2063.9	2093.5	2111.4	2133.6	2158.9	2172.6	2176.9	2185.3	2179.0	2174.7
15°	2094.5	2105.1	2137.8	2157.9	2182.1	2201.1	2204.3	2206.4	2212.7	2203.2	2195.8
17.5°	2132.5	2138.9	2165.2	2173.7	2189.5	2192.7	2188.5	2177.9	2177.9	2156.8	2150.5
20°	2150.5	2147.3	2157.9	2144.1	2137.8	2118.8	2100.9	2080.8	2079.8	2057.6	2055.5
22.5°	2134.6	2113.5	2091.4	2057.6	2042.8	2015.4	1991.1	1979.5	1972.1	1943.7	1936.3
25°	2078.7	2027.0	1994.3	1954.2	1918.3	1886.7	1863.5	1839.2	1816.0	1792.8	1782.2
27.5°	1981.6	1933.1	1880.3	1824.4	1774.8	1726.3	1687.2	1663.0	1640.8	1610.2	1594.4
30°	1862.4	1794.9	1736.8	1683.0	1601.8	1542.7	1510.0	1461.4	1444.6	1430.8	1401.3
32.5°	1722.1	1640.8	1561.7	1488.9	1405.5	1350.6	1307.4	1271.5	1260.9	1225.1	1216.6
35°	1567.0	1460.4	1370.7	1298.9	1238.8	1172.3	1136.4	1112.2	1091.1	1066.8	1062.6
37.5°	1384.4	1288.4	1187.1	1123.8	1076.3	1019.3	991.9	975.0	965.5	947.6	944.4
40°	1200.8	1104.8	1035.1	971.8	942.3	911.7	891.6	884.2	880.0	873.7	867.4
42.5°	1034.1	949.7	900.1	857.9	845.2	830.4	825.2	829.4	825.2	823.0	822.0
45°	892.7	828.3	793.5	780.8	777.7	773.5	777.7	785.1	786.1	784.0	784.0
47.5°	764.0	733.4	718.6	720.7	726.0	729.1	736.5	746.0	748.1	742.9	745.0
50°	679.5	661.6	658.4	666.9	678.5	682.7	691.1	698.5	697.5	695.4	693.3
52.5°	600.4	595.1	603.6	612.0	624.7	626.8	629.9	633.1	632.1	627.8	625.7
55°	533.9	538.1	545.5	548.7	558.2	557.1	558.2	558.2	554.0	551.9	548.7
57.5°	473.8	474.8	479.1	480.1	485.4	483.3	482.2	480.1	473.8	472.7	469.6
60°	412.6	410.5	420.0	412.6	416.8	412.6	411.5	406.2	399.9	398.9	396.8
62.5°	354.5	350.3	356.7	353.5	355.6	351.4	349.3	342.9	337.7	336.6	335.5
65°	302.8	300.7	307.1	306.0	308.1	302.8	300.7	296.5	292.3	291.2	290.2
67.5°	259.6	264.9	268.0	268.0	270.1	269.1	263.8	262.7	261.7	257.5	257.5
70°	227.9	231.1	237.4	238.5	237.4	239.5	235.3	234.3	233.2	231.1	230.0
72.5°	202.6	206.8	213.1	214.2	213.1	213.1	211.0	210.0	210.0	206.8	206.8
75°	182.5	187.8	193.1	193.1	193.1	191.0	188.9	188.9	186.8	185.7	183.6
77.5°	165.7	172.0	176.2	175.2	174.1	172.0	172.0	168.8	165.7	165.7	163.6
80°	153.0	157.2	160.4	159.3	158.3	155.1	154.1	150.9	148.8	145.6	145.6
82.5°	139.3	144.6	146.7	145.6	143.5	140.3	139.3	137.2	135.1	134.0	131.9
85°	127.7	133.0	134.0	131.9	129.8	127.7	126.6	125.6	124.5	122.4	122.4
87.5°	116.1	121.3	121.3	120.3	118.2	117.1	116.1	115.0	114.0	112.9	111.8
90°	106.6	110.8	110.8	109.7	108.7	107.6	106.6	105.5	104.5	103.4	103.4
92.5°	97.1	101.3	101.3	100.2	99.2	98.1	98.1	97.1	96.0	95.0	93.9
95°	88.6	92.9	92.9	92.9	91.8	90.7	90.7	89.7	88.6	88.6	87.6
97.5°	80.2	84.4	84.4	84.4	83.4	82.3	82.3	81.2	81.2	81.2	80.2
100°	72.8	76.0	77.0	77.0	76.0	76.0	76.0	74.9	74.9	74.9	73.9
102.5°	65.4	68.6	70.7	70.7	70.7	69.6	69.6	69.6	69.6	69.6	68.6
105°	59.1	62.3	64.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
107.5°	53.8	57.0	59.1	60.1	61.2	61.2	62.3	62.3	62.3	62.3	62.3
110°	48.5	51.7	54.9	55.9	57.0	58.0	58.0	59.1	58.0	58.0	58.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	43.3	47.5	49.6	51.7	52.8	53.8	54.9	54.9	54.9	54.9	54.9
115°	39.0	43.3	45.4	47.5	49.6	50.6	50.6	51.7	51.7	51.7	50.6
117.5°	34.8	39.0	41.2	43.3	44.3	46.4	47.5	47.5	47.5	47.5	46.4
120°	31.7	34.8	36.9	39.0	41.2	42.2	43.3	43.3	43.3	43.3	43.3
122.5°	27.4	30.6	33.8	35.9	36.9	38.0	39.0	39.0	39.0	39.0	39.0
125°	24.3	27.4	29.5	31.7	32.7	34.8	34.8	34.8	34.8	34.8	34.8
127.5°	21.1	24.3	26.4	28.5	29.5	30.6	31.7	31.7	31.7	31.7	31.7
130°	17.9	21.1	23.2	25.3	26.4	27.4	27.4	28.5	28.5	28.5	28.5
132.5°	15.8	17.9	20.0	22.2	23.2	24.3	24.3	25.3	25.3	25.3	25.3
135°	12.7	15.8	16.9	19.0	20.0	21.1	21.1	22.2	22.2	22.2	22.2
137.5°	10.6	12.7	14.8	16.9	17.9	17.9	19.0	19.0	20.0	20.0	20.0
140°	8.4	9.5	12.7	13.7	14.8	15.8	16.9	16.9	16.9	16.9	16.9
142.5°	6.3	8.4	9.5	11.6	12.7	13.7	14.8	14.8	14.8	14.8	14.8
145°	5.3	6.3	7.4	9.5	10.6	11.6	12.7	12.7	12.7	12.7	12.7
147.5°	4.2	5.3	6.3	7.4	8.4	9.5	10.6	10.6	10.6	10.6	10.6
150°	3.2	4.2	5.3	5.3	6.3	7.4	8.4	9.5	9.5	9.5	9.5
152.5°	3.2	3.2	4.2	4.2	5.3	6.3	7.4	7.4	7.4	7.4	7.4
155°	2.1	3.2	3.2	3.2	4.2	4.2	5.3	6.3	6.3	6.3	6.3
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: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2042.8	2047.1	2045.0	2041.8	2040.7	2046.0	2040.7	2016.5	2026.0	2027.0	2034.4
5°	2039.7	2042.8	2040.7	2038.6	2035.5	2041.8	2035.5	2010.1	2019.6	2020.7	2028.1
7.5°	2060.8	2061.8	2061.8	2056.6	2048.1	2051.3	2042.8	2014.4	2019.6	2019.6	2024.9
10°	2113.5	2115.6	2118.8	2105.1	2094.5	2086.1	2074.5	2039.7	2038.6	2030.2	2030.2
12.5°	2182.1	2176.9	2171.6	2165.2	2156.8	2146.2	2129.4	2088.2	2074.5	2060.8	2047.1
15°	2202.2	2200.1	2199.0	2195.8	2190.6	2187.4	2174.7	2133.6	2113.5	2096.7	2072.4
17.5°	2149.4	2153.6	2167.4	2168.4	2174.7	2187.4	2185.3	2156.8	2138.9	2131.5	2101.9
20°	2054.4	2055.5	2072.4	2079.8	2107.2	2128.3	2144.1	2141.0	2136.8	2145.2	2123.0
22.5°	1940.5	1947.9	1965.8	1977.4	2003.8	2028.1	2053.4	2067.1	2089.3	2124.1	2119.9
25°	1785.4	1794.9	1820.2	1839.2	1876.1	1913.1	1946.8	1971.1	1997.5	2063.9	2086.1
27.5°	1599.7	1614.4	1647.1	1666.1	1717.8	1755.8	1804.4	1851.9	1888.8	1964.8	2010.1
30°	1404.5	1417.1	1451.9	1478.3	1522.6	1574.3	1635.5	1703.1	1764.3	1841.3	1898.3
32.5°	1221.9	1235.6	1264.1	1287.3	1336.9	1380.2	1447.7	1531.1	1588.1	1694.6	1770.6
35°	1062.6	1075.2	1095.3	1115.3	1156.5	1200.8	1258.8	1340.1	1412.9	1523.7	1619.7
37.5°	950.7	952.8	964.4	976.0	1006.6	1040.4	1085.8	1157.5	1225.1	1344.3	1449.8
40°	870.5	870.5	876.9	880.0	893.7	913.8	942.3	998.2	1054.1	1144.9	1273.6
42.5°	820.9	818.8	818.8	819.9	818.8	828.3	845.2	871.6	921.2	996.1	1096.3
45°	784.0	779.8	776.6	769.2	765.0	765.0	766.1	775.6	804.1	852.6	933.8
47.5°	742.9	741.8	736.5	728.1	720.7	715.4	707.0	703.8	712.3	739.7	794.6
50°	695.4	690.1	684.8	678.5	670.0	664.8	648.9	650.0	642.6	655.3	683.8
52.5°	625.7	621.5	619.4	614.1	611.0	608.8	596.2	583.5	580.4	582.5	593.0
55°	548.7	550.8	542.4	546.6	545.5	536.0	530.8	521.3	518.1	517.0	522.3
57.5°	468.5	470.6	465.3	469.6	469.6	464.3	461.1	461.1	453.7	447.4	454.8
60°	395.7	391.5	394.6	399.9	399.9	396.8	394.6	394.6	389.4	387.3	392.5
62.5°	336.6	332.4	335.5	340.8	341.9	339.8	337.7	337.7	331.3	331.3	335.5
65°	291.2	292.3	291.2	295.5	295.5	296.5	294.4	292.3	284.9	288.1	287.0
67.5°	258.5	257.5	257.5	261.7	260.6	262.7	260.6	257.5	252.2	248.0	246.9
70°	231.1	230.0	230.0	232.1	233.2	233.2	232.1	230.0	222.6	218.4	215.3
72.5°	206.8	205.8	206.8	207.9	208.9	210.0	208.9	206.8	200.5	195.2	189.9
75°	184.7	183.6	186.8	186.8	187.8	187.8	188.9	187.8	182.5	176.2	169.9
77.5°	162.5	163.6	166.7	167.8	169.9	170.9	172.0	172.0	166.7	161.4	153.0
80°	144.6	146.7	148.8	149.8	151.9	155.1	156.2	157.2	153.0	147.7	138.2
82.5°	131.9	133.0	135.1	136.1	139.3	140.3	141.4	143.5	141.4	136.1	125.6
85°	121.3	122.4	124.5	124.5	126.6	128.7	129.8	130.8	129.8	124.5	114.0
87.5°	111.8	112.9	114.0	115.0	116.1	117.1	118.2	119.2	118.2	112.9	103.4
90°	103.4	103.4	104.5	104.5	105.5	106.6	108.7	108.7	107.6	103.4	93.9
92.5°	93.9	95.0	95.0	96.0	97.1	98.1	99.2	99.2	98.1	93.9	85.5
95°	87.6	87.6	88.6	88.6	89.7	89.7	90.7	90.7	89.7	85.5	77.0
97.5°	80.2	80.2	80.2	80.2	81.2	81.2	82.3	82.3	81.2	77.0	69.6
100°	73.9	73.9	73.9	73.9	73.9	74.9	74.9	74.9	73.9	69.6	62.3
102.5°	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	66.5	63.3	55.9
105°	65.4	65.4	65.4	64.4	64.4	64.4	63.3	63.3	60.1	57.0	50.6
107.5°	61.2	61.2	61.2	60.1	60.1	59.1	58.0	58.0	54.9	51.7	45.4
110°	58.0	58.0	58.0	57.0	55.9	54.9	53.8	52.8	49.6	45.4	40.1





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	54.9	54.9	53.8	53.8	52.8	51.7	49.6	48.5	45.4	41.2	35.9
115°	50.6	50.6	50.6	49.6	48.5	47.5	46.4	44.3	41.2	36.9	31.7
117.5°	46.4	46.4	46.4	45.4	44.3	43.3	42.2	40.1	36.9	32.7	28.5
120°	42.2	42.2	42.2	41.2	40.1	39.0	38.0	35.9	32.7	29.5	24.3
122.5°	39.0	39.0	38.0	36.9	35.9	34.8	33.8	31.7	29.5	25.3	21.1
125°	34.8	34.8	33.8	33.8	32.7	31.7	30.6	28.5	25.3	22.2	19.0
127.5°	31.7	30.6	30.6	30.6	29.5	28.5	26.4	25.3	22.2	19.0	15.8
130°	27.4	27.4	27.4	26.4	26.4	25.3	23.2	21.1	19.0	16.9	13.7
132.5°	24.3	24.3	24.3	24.3	23.2	22.2	20.0	19.0	16.9	13.7	11.6
135°	22.2	22.2	21.1	21.1	20.0	19.0	17.9	15.8	13.7	11.6	9.5
137.5°	19.0	19.0	19.0	17.9	17.9	16.9	14.8	13.7	12.7	10.6	8.4
140°	16.9	16.9	15.8	15.8	14.8	14.8	13.7	11.6	10.6	8.4	7.4
142.5°	14.8	14.8	13.7	13.7	12.7	12.7	11.6	10.6	8.4	7.4	5.3
145°	12.7	12.7	11.6	11.6	11.6	10.6	9.5	8.4	7.4	6.3	5.3
147.5°	10.6	10.6	10.6	9.5	9.5	8.4	8.4	7.4	6.3	5.3	4.2
150°	9.5	9.5	8.4	8.4	8.4	7.4	6.3	6.3	5.3	4.2	3.2
152.5°	7.4	7.4	7.4	7.4	6.3	6.3	5.3	5.3	4.2	3.2	3.2
155°	6.3	6.3	6.3	5.3	5.3	5.3	4.2	4.2	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: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2031.2	2030.2	2039.7	2038.6	2026.0	2045.0	2057.6
5°	2026.0	2024.9	2033.3	2035.5	2021.7	2041.8	2055.5
7.5°	2021.7	2020.7	2030.2	2033.3	2019.6	2037.6	2052.3
10°	2022.8	2017.5	2026.0	2028.1	2015.4	2034.4	2047.1
12.5°	2030.2	2017.5	2020.7	2020.7	2009.1	2026.0	2039.7
15°	2048.1	2021.7	2017.5	2014.4	1999.6	2015.4	2029.1
17.5°	2068.2	2032.3	2017.5	2007.0	1989.0	2002.7	2017.5
20°	2088.2	2043.9	2019.6	2002.7	1978.5	1991.1	2001.7
22.5°	2097.7	2054.4	2021.7	1996.4	1965.8	1972.1	1983.8
25°	2085.0	2050.2	2017.5	1986.9	1950.0	1951.0	1960.5
27.5°	2038.6	2029.1	2008.0	1977.4	1937.3	1932.0	1939.4
30°	1959.5	1985.9	1986.9	1964.8	1922.6	1912.0	1915.2
32.5°	1848.7	1907.8	1942.6	1938.4	1901.4	1886.7	1888.8
35°	1721.0	1794.9	1870.8	1896.2	1869.8	1858.2	1854.0
37.5°	1568.0	1667.2	1768.5	1830.7	1826.5	1819.1	1814.9
40°	1399.2	1518.4	1638.7	1737.9	1768.5	1768.5	1770.6
42.5°	1218.7	1358.0	1489.9	1615.5	1687.2	1703.1	1709.4
45°	1044.6	1185.0	1328.5	1473.0	1569.1	1618.7	1636.6
47.5°	886.4	1027.8	1163.9	1322.1	1449.8	1514.2	1542.7
50°	751.3	856.8	1000.3	1157.5	1296.8	1376.0	1431.9
52.5°	639.4	721.7	847.3	994.0	1134.3	1243.0	1294.7
55°	545.5	601.5	708.0	834.7	968.7	1081.6	1141.7
57.5°	466.4	510.7	583.5	689.0	801.9	913.8	978.2
60°	396.8	427.4	476.9	560.3	656.3	752.3	814.6
62.5°	336.6	356.7	389.4	450.6	525.5	600.4	658.4
65°	290.2	298.6	316.6	354.5	411.5	468.5	518.1
67.5°	244.8	250.1	263.8	287.0	315.5	356.7	389.4
70°	211.0	211.0	212.1	225.8	240.6	267.0	290.2
72.5°	183.6	180.4	174.1	177.3	180.4	195.2	210.0
75°	161.4	154.1	143.5	139.3	137.2	139.3	147.7
77.5°	142.5	131.9	119.2	108.7	100.2	97.1	104.5
80°	126.6	114.0	99.2	85.5	71.8	64.4	67.5
82.5°	114.0	98.1	82.3	66.5	50.6	40.1	40.1
85°	100.2	85.5	68.6	51.7	35.9	22.2	20.0
87.5°	90.7	74.9	57.0	41.2	25.3	11.6	6.3
90°	81.2	65.4	48.5	32.7	17.9	5.3	0.0
92.5°	72.8	58.0	42.2	26.4	12.7	3.2	0.0
95°	65.4	51.7	35.9	22.2	10.6	2.1	1.1
97.5°	58.0	45.4	31.7	17.9	7.4	2.1	1.1
100°	52.8	40.1	27.4	14.8	6.3	1.1	1.1
102.5°	46.4	35.9	23.2	12.7	5.3	1.1	1.1
105°	41.2	31.7	20.0	10.6	4.2	1.1	1.1
107.5°	36.9	27.4	17.9	9.5	4.2	1.1	1.1
110°	32.7	24.3	15.8	8.4	3.2	1.1	1.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LC-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	29.5	21.1	13.7	7.4	2.1	1.1	1.1
115°	25.3	19.0	11.6	6.3	2.1	1.1	1.1
117.5°	22.2	15.8	10.6	5.3	2.1	1.1	1.1
120°	19.0	13.7	8.4	4.2	1.1	1.1	1.1
122.5°	16.9	11.6	7.4	4.2	1.1	1.1	1.1
125°	14.8	10.6	6.3	3.2	1.1	1.1	1.1
127.5°	12.7	8.4	5.3	2.1	1.1	1.1	1.1
130°	10.6	7.4	4.2	2.1	1.1	1.1	1.1
132.5°	8.4	6.3	4.2	2.1	1.1	1.1	1.1
135°	7.4	5.3	3.2	2.1	1.1	1.1	1.1
137.5°	6.3	4.2	2.1	2.1	2.1	1.1	1.1
140°	5.3	3.2	2.1	2.1	2.1	2.1	1.1
142.5°	4.2	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)