

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-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 (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-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

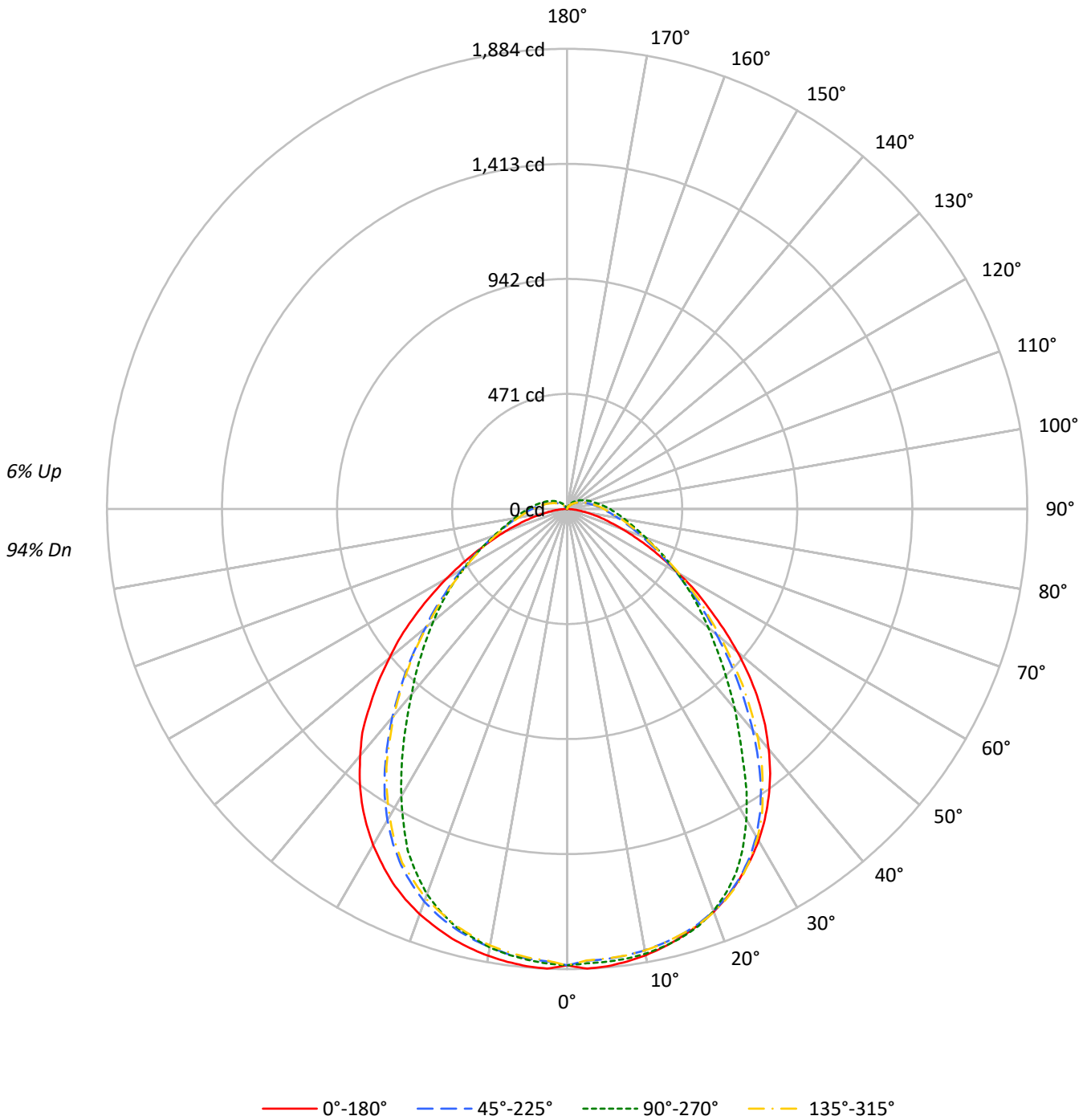
Lumens per Lamp: N/A  
Luminaire Lumens: 4728.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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°	7548	7548	7548	7548
5°	7613	7308	7613	7276
10°	7589	7114	7602	7015
15°	7551	6901	7586	6722
20°	7504	6628	7548	6348
25°	7395	6223	7477	5856
30°	7251	5627	7346	5209
35°	7020	4897	7155	4560
40°	6682	4283	6859	3973
45°	6233	3723	6435	3509
50°	5613	3272	5859	3106
55°	4872	2889	5226	2743
60°	4116	2536	4487	2390
65°	3394	2243	3736	2080
70°	2724	1990	3049	1841
75°	2168	1838	2440	1691
80°	1603	1773	1889	1620
85°	1050	1783	1416	1639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.1	3.7
10°-20°	507.9	10.7
20°-30°	752.7	15.9
30°-40°	836.2	17.7
40°-50°	758.0	16.0
50°-60°	587.4	12.4
60°-70°	398.9	8.4
70°-80°	253.8	5.4
80°-90°	162.2	3.4
90°-100°	109.4	2.3
100°-110°	74.9	1.6
110°-120°	50.0	1.1
120°-130°	31.1	0.7
130°-140°	17.2	0.4
140°-150°	8.1	0.2
150°-160°	3.0	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1437.7	30.4
0°-40°	2273.9	48.1
0°-60°	3619.3	76.6
0°-90°	4434.2	93.8
90°-120°	234.3	5.0
90°-150°	290.6	6.1
90°-180°	294.0	6.2
0°-180°	4728.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1868	1868	1868	1868	1868	
5°	1880	1861	1880	1853	1880	179
15°	1813	1816	1821	1769	1813	512
25°	1671	1640	1689	1544	1671	770
35°	1439	1254	1466	1167	1439	897
45°	1108	896	1144	845	1108	851
55°	707	630	758	598	707	637
65°	367	423	404	393	367	368
75°	147	283	165	260	147	158
85°	27	204	36	187	27	32
90°	0	176	2	160	0	2
95°	1	150	0	140	1	1
105°	1	110	0	104	1	1
115°	1	83	0	77	1	1
125°	1	62	1	54	1	1
135°	1	43	1	35	1	1
145°	1	28	1	20	1	1
155°	1	15	1	7	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#

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2
2.5°	1883.6	1881.6	1879.5	1876.5	1879.5	1887.8	1882.6	1871.3	1869.3	1850.8	1859.0
5°	1879.5	1876.5	1874.4	1871.3	1875.4	1885.7	1880.6	1870.3	1867.2	1849.7	1859.0
7.5°	1869.3	1867.2	1864.1	1864.1	1868.2	1878.5	1874.4	1863.1	1861.0	1843.6	1853.8
10°	1854.9	1853.8	1851.8	1851.8	1855.9	1868.2	1863.1	1852.8	1850.8	1834.3	1845.6
12.5°	1836.4	1837.4	1834.3	1834.3	1840.5	1852.8	1848.7	1837.4	1835.3	1821.0	1832.3
15°	1812.7	1813.8	1811.7	1812.7	1818.9	1833.3	1828.2	1817.9	1815.8	1804.5	1813.8
17.5°	1786.0	1787.0	1787.0	1786.0	1793.2	1807.6	1803.5	1794.2	1791.2	1781.9	1793.2
20°	1755.2	1755.2	1755.2	1755.2	1763.4	1777.8	1772.7	1765.5	1759.3	1752.1	1761.4
22.5°	1717.2	1716.1	1717.2	1720.3	1728.5	1739.8	1736.7	1728.5	1719.2	1715.1	1722.3
25°	1670.9	1674.0	1675.0	1678.1	1688.4	1697.6	1694.6	1686.3	1672.0	1668.9	1670.9
27.5°	1622.6	1624.7	1627.8	1626.7	1641.1	1650.4	1644.2	1637.0	1616.5	1613.4	1611.3
30°	1568.2	1571.2	1573.3	1572.3	1583.6	1593.9	1587.7	1578.4	1550.7	1548.6	1532.2
32.5°	1506.5	1509.6	1511.6	1511.6	1528.1	1532.2	1520.9	1507.5	1477.7	1470.5	1456.2
35°	1438.7	1441.8	1442.8	1442.8	1459.2	1458.2	1443.8	1425.3	1392.4	1383.2	1358.5
37.5°	1365.7	1367.8	1368.8	1375.0	1382.2	1376.0	1357.5	1333.9	1309.2	1283.5	1256.8
40°	1283.5	1286.6	1288.6	1292.8	1300.0	1292.8	1266.0	1237.3	1210.5	1181.8	1155.1
42.5°	1199.2	1208.5	1206.4	1205.4	1209.5	1190.0	1169.4	1136.6	1109.8	1080.0	1053.3
45°	1107.8	1106.8	1111.9	1114.0	1112.9	1096.5	1067.7	1037.9	1011.2	980.4	957.8
47.5°	1011.2	1010.2	1014.3	1016.3	1010.2	992.7	970.1	936.2	913.6	886.8	869.4
50°	909.5	909.5	915.6	909.5	906.4	888.9	870.4	836.5	819.0	795.4	785.1
52.5°	807.7	817.0	810.8	808.7	805.7	788.2	773.8	746.1	731.7	721.4	709.1
55°	707.0	717.3	713.2	710.1	709.1	694.7	681.3	660.8	651.5	644.3	637.1
57.5°	621.7	620.7	618.6	615.6	616.6	605.3	591.9	580.6	576.5	573.4	575.5
60°	523.1	531.3	528.2	529.2	530.3	528.2	516.9	509.7	510.7	511.8	514.8
62.5°	441.9	449.1	454.2	450.1	452.2	455.2	449.1	447.0	451.1	455.2	459.4
65°	366.9	374.1	379.2	378.2	384.3	390.5	389.5	391.5	400.8	405.9	411.1
67.5°	299.0	306.2	313.4	314.5	323.7	333.0	337.1	344.3	354.5	361.7	367.9
70°	240.5	246.6	254.9	260.0	272.3	284.7	291.8	306.2	312.4	322.7	326.8
72.5°	188.1	193.2	204.5	216.8	227.1	242.5	256.9	269.2	278.5	289.8	294.9
75°	147.0	149.0	161.3	175.7	190.1	207.6	223.0	236.4	248.7	260.0	268.2
77.5°	107.9	111.0	122.3	141.8	158.3	176.8	194.2	208.6	222.0	233.3	244.6
80°	75.0	81.2	93.5	113.0	131.5	152.1	168.5	185.0	199.4	210.7	222.0
82.5°	48.3	53.4	70.9	90.4	110.0	130.5	148.0	164.4	179.8	192.2	202.4
85°	26.7	33.9	51.4	71.9	91.5	112.0	130.5	147.0	162.4	173.7	183.9
87.5°	10.3	20.6	37.0	56.5	76.0	95.6	115.1	130.5	145.9	158.3	167.5
90°	0.0	12.3	27.7	47.3	66.8	86.3	104.8	121.3	135.6	147.0	157.2
92.5°	1.0	8.2	21.6	38.0	56.5	75.0	92.5	108.9	123.3	134.6	143.9
95°	1.0	6.2	17.5	32.9	49.3	66.8	83.2	98.7	112.0	123.3	132.6
97.5°	1.0	4.1	14.4	28.8	43.2	60.6	76.0	90.4	102.8	114.1	121.3
100°	1.0	4.1	12.3	24.7	39.0	54.5	68.9	83.2	94.5	103.8	112.0
102.5°	1.0	3.1	10.3	21.6	34.9	48.3	62.7	76.0	86.3	95.6	103.8
105°	1.0	3.1	9.2	18.5	30.8	44.2	56.5	68.9	80.2	88.4	95.6
107.5°	1.0	2.1	8.2	15.4	26.7	40.1	52.4	62.7	73.0	81.2	88.4
110°	1.0	2.1	7.2	14.4	23.6	36.0	47.3	57.5	66.8	75.0	81.2



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

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.0	2.1	6.2	13.4	21.6	31.9	43.2	52.4	61.7	68.9	75.0
115°	1.0	2.1	6.2	12.3	19.5	27.7	38.0	48.3	55.5	63.7	68.9
117.5°	1.0	2.1	5.1	10.3	18.5	25.7	34.9	43.2	51.4	58.6	63.7
120°	1.0	2.1	5.1	9.2	16.4	23.6	30.8	39.0	47.3	52.4	57.5
122.5°	1.0	2.1	4.1	9.2	14.4	21.6	27.7	34.9	42.1	48.3	53.4
125°	1.0	2.1	4.1	8.2	13.4	19.5	25.7	30.8	38.0	43.2	48.3
127.5°	1.0	2.1	4.1	7.2	12.3	17.5	23.6	28.8	33.9	39.0	43.2
130°	1.0	2.1	3.1	6.2	11.3	15.4	20.6	26.7	30.8	34.9	39.0
132.5°	1.0	2.1	3.1	6.2	9.2	13.4	18.5	23.6	27.7	31.9	34.9
135°	1.0	2.1	3.1	5.1	8.2	12.3	15.4	20.6	24.7	28.8	31.9
137.5°	1.0	2.1	3.1	5.1	7.2	10.3	13.4	17.5	21.6	24.7	28.8
140°	1.0	2.1	3.1	4.1	6.2	9.2	12.3	14.4	18.5	21.6	24.7
142.5°	1.0	2.1	3.1	4.1	6.2	8.2	10.3	12.3	15.4	18.5	21.6
145°	1.0	2.1	3.1	4.1	5.1	7.2	9.2	11.3	12.3	15.4	17.5
147.5°	1.0	2.1	3.1	4.1	4.1	6.2	8.2	9.2	11.3	12.3	14.4
150°	1.0	2.1	3.1	3.1	4.1	5.1	7.2	8.2	9.2	11.3	12.3
152.5°	1.0	2.1	3.1	3.1	4.1	5.1	6.2	7.2	8.2	9.2	10.3
155°	1.0	2.1	3.1	3.1	3.1	4.1	5.1	6.2	7.2	8.2	9.2
157.5°	2.1	2.1	2.1	3.1	3.1	4.1	4.1	5.1	6.2	6.2	7.2
160°	2.1	2.1	2.1	3.1	3.1	3.1	4.1	4.1	5.1	5.1	6.2
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2
2.5°	1856.9	1860.0	1869.3	1869.3	1867.2	1865.1	1865.1	1862.1	1864.1	1868.2	1866.2
5°	1856.9	1860.0	1869.3	1869.3	1867.2	1865.1	1864.1	1861.0	1864.1	1868.2	1866.2
7.5°	1850.8	1854.9	1864.1	1864.1	1862.1	1861.0	1859.0	1856.9	1860.0	1864.1	1862.1
10°	1842.5	1846.7	1855.9	1855.9	1853.8	1853.8	1850.8	1848.7	1852.8	1855.9	1854.9
12.5°	1830.2	1835.3	1843.6	1842.5	1840.5	1841.5	1838.4	1834.3	1838.4	1841.5	1842.5
15°	1812.7	1818.9	1827.1	1825.1	1822.0	1824.0	1818.9	1815.8	1818.9	1825.1	1824.0
17.5°	1790.1	1794.2	1800.4	1800.4	1797.3	1795.3	1793.2	1790.1	1792.2	1796.3	1797.3
20°	1758.3	1763.4	1766.5	1763.4	1762.4	1759.3	1755.2	1752.1	1756.2	1762.4	1763.4
22.5°	1716.1	1717.2	1724.4	1717.2	1712.0	1711.0	1706.9	1700.7	1706.9	1712.0	1713.1
25°	1663.7	1668.9	1665.8	1653.5	1653.5	1645.2	1643.2	1640.1	1641.1	1650.4	1654.5
27.5°	1596.9	1599.0	1590.8	1580.5	1571.2	1566.1	1558.9	1559.9	1559.9	1572.3	1576.4
30°	1524.0	1512.7	1505.5	1489.0	1481.8	1469.5	1467.5	1467.5	1465.4	1471.6	1490.1
32.5°	1436.6	1421.2	1409.9	1394.5	1382.2	1369.8	1363.7	1366.7	1365.7	1381.1	1387.3
35°	1341.1	1331.8	1308.2	1288.6	1281.5	1263.0	1263.0	1253.7	1259.9	1277.3	1284.5
37.5°	1240.3	1226.0	1206.4	1184.9	1179.7	1165.3	1160.2	1155.1	1168.4	1171.5	1178.7
40°	1137.6	1124.2	1105.7	1085.2	1085.2	1067.7	1067.7	1067.7	1068.7	1074.9	1088.3
42.5°	1040.0	1025.6	1009.1	994.7	992.7	979.3	979.3	978.3	980.4	985.5	997.8
45°	945.4	934.1	916.6	909.5	910.5	896.1	899.2	896.1	900.2	905.3	909.5
47.5°	858.1	850.9	843.7	833.4	830.3	829.3	824.2	820.0	827.2	827.2	833.4
50°	776.9	772.8	768.7	762.5	763.5	759.4	753.3	753.3	758.4	759.4	763.5
52.5°	706.0	700.8	695.7	696.7	697.8	695.7	692.6	689.5	692.6	694.7	699.8
55°	635.1	631.0	636.1	634.0	636.1	634.0	632.0	629.9	635.1	632.0	637.1
57.5°	571.4	575.5	577.5	573.4	576.5	574.4	575.5	572.4	576.5	578.6	577.5
60°	512.8	519.0	515.9	516.9	521.0	519.0	514.8	517.9	522.0	523.1	522.0
62.5°	459.4	466.5	469.6	467.6	468.6	466.5	469.6	465.5	470.7	472.7	469.6
65°	411.1	419.3	421.3	421.3	421.3	419.3	422.4	423.4	425.4	425.4	423.4
67.5°	369.9	377.1	379.2	381.3	379.2	377.1	377.1	378.2	382.3	384.3	382.3
70°	333.0	340.1	341.2	341.2	342.2	344.3	340.1	342.2	345.3	346.3	345.3
72.5°	301.1	308.3	310.3	309.3	310.3	311.4	311.4	309.3	312.4	314.5	314.5
75°	275.4	279.5	281.6	281.6	282.6	283.6	283.6	282.6	284.7	285.7	286.7
77.5°	251.8	254.9	257.9	257.9	259.0	257.9	260.0	260.0	261.0	262.0	263.1
80°	228.1	232.2	234.3	235.3	237.4	238.4	238.4	238.4	239.4	240.5	240.5
82.5°	209.6	212.7	215.8	218.9	218.9	219.9	219.9	219.9	220.9	220.9	222.0
85°	191.1	195.2	198.3	200.4	201.4	202.4	202.4	203.5	203.5	203.5	204.5
87.5°	174.7	179.8	181.9	183.9	185.0	187.0	187.0	187.0	188.1	188.1	188.1
90°	163.4	168.5	170.6	172.6	173.7	174.7	174.7	175.7	175.7	176.8	176.8
92.5°	150.0	155.2	159.3	159.3	160.3	162.4	161.3	161.3	162.4	163.4	163.4
95°	139.8	143.9	147.0	148.0	149.0	149.0	149.0	150.0	149.0	150.0	150.0
97.5°	127.4	131.5	134.6	136.7	137.7	137.7	137.7	138.7	137.7	138.7	138.7
100°	117.1	121.3	124.3	125.4	127.4	127.4	127.4	127.4	127.4	127.4	128.5
102.5°	108.9	113.0	115.1	116.1	117.1	118.2	118.2	118.2	118.2	119.2	119.2
105°	100.7	104.8	106.9	107.9	108.9	110.0	110.0	110.0	111.0	111.0	110.0
107.5°	93.5	96.6	98.7	100.7	101.7	101.7	102.8	102.8	102.8	102.8	102.8
110°	86.3	89.4	92.5	94.5	94.5	95.6	95.6	96.6	96.6	95.6	96.6





TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	79.1	83.2	85.3	87.3	88.4	89.4	89.4	89.4	89.4	89.4	89.4
115°	73.0	77.1	79.1	81.2	82.2	83.2	83.2	83.2	83.2	83.2	83.2
117.5°	67.8	71.9	74.0	75.0	76.0	77.1	78.1	78.1	78.1	78.1	77.1
120°	62.7	65.8	67.8	69.9	70.9	71.9	71.9	71.9	71.9	71.9	71.9
122.5°	57.5	60.6	62.7	64.7	65.8	66.8	66.8	66.8	66.8	66.8	66.8
125°	52.4	55.5	57.5	59.6	60.6	61.7	61.7	61.7	61.7	61.7	61.7
127.5°	47.3	50.4	53.4	54.5	55.5	56.5	56.5	56.5	57.5	56.5	56.5
130°	42.1	45.2	48.3	49.3	50.4	51.4	52.4	52.4	52.4	52.4	51.4
132.5°	38.0	41.1	43.2	44.2	46.2	46.2	47.3	47.3	47.3	47.3	46.2
135°	34.9	37.0	39.0	40.1	42.1	42.1	42.1	43.2	43.2	42.1	41.1
137.5°	30.8	32.9	34.9	36.0	37.0	38.0	38.0	39.0	38.0	38.0	38.0
140°	28.8	29.8	31.9	32.9	33.9	33.9	33.9	34.9	34.9	33.9	33.9
142.5°	24.7	26.7	28.8	29.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
145°	20.6	23.6	24.7	26.7	26.7	27.7	27.7	27.7	27.7	27.7	26.7
147.5°	17.5	19.5	22.6	23.6	23.6	24.7	24.7	24.7	24.7	24.7	23.6
150°	13.4	15.4	18.5	20.6	20.6	21.6	21.6	21.6	21.6	20.6	20.6
152.5°	11.3	13.4	14.4	16.4	17.5	17.5	17.5	18.5	17.5	17.5	17.5
155°	10.3	11.3	12.3	13.4	14.4	15.4	15.4	15.4	15.4	14.4	14.4
157.5°	8.2	9.2	10.3	11.3	12.3	13.4	13.4	13.4	13.4	13.4	12.3
160°	6.2	7.2	8.2	8.2	9.2	10.3	11.3	10.3	10.3	10.3	10.3
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-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2
2.5°	1864.1	1863.1	1866.2	1861.0	1845.6	1849.7	1847.7	1856.9	1859.0	1861.0	1870.3
5°	1864.1	1863.1	1865.1	1861.0	1844.6	1847.7	1845.6	1854.9	1856.9	1858.0	1867.2
7.5°	1860.0	1859.0	1862.1	1856.9	1839.5	1843.6	1840.5	1849.7	1850.8	1851.8	1860.0
10°	1851.8	1850.8	1852.8	1848.7	1831.2	1835.3	1831.2	1840.5	1840.5	1842.5	1848.7
12.5°	1839.5	1837.4	1841.5	1836.4	1816.8	1822.0	1819.9	1826.1	1827.1	1828.2	1834.3
15°	1822.0	1819.9	1823.0	1819.9	1802.5	1803.5	1800.4	1809.7	1810.7	1808.6	1814.8
17.5°	1796.3	1794.2	1800.4	1798.4	1780.9	1785.0	1784.0	1786.0	1789.1	1784.0	1792.2
20°	1764.4	1766.5	1768.6	1769.6	1756.2	1756.2	1755.2	1759.3	1762.4	1758.3	1764.4
22.5°	1717.2	1722.3	1728.5	1730.5	1721.3	1720.3	1726.4	1724.4	1727.4	1725.4	1729.5
25°	1657.6	1667.8	1674.0	1680.2	1675.0	1677.1	1686.3	1688.4	1688.4	1687.4	1691.5
27.5°	1583.6	1596.9	1608.2	1621.6	1616.5	1620.6	1636.0	1638.0	1642.2	1638.0	1646.3
30°	1495.2	1507.5	1529.1	1548.6	1550.7	1556.9	1578.4	1580.5	1591.8	1587.7	1590.8
32.5°	1406.8	1413.0	1437.7	1457.2	1469.5	1484.9	1508.6	1512.7	1528.1	1531.2	1531.2
35°	1295.8	1313.3	1335.9	1363.7	1379.1	1395.5	1427.4	1433.5	1456.2	1463.3	1471.6
37.5°	1202.3	1218.8	1233.2	1261.9	1289.7	1308.2	1333.9	1349.3	1372.9	1386.3	1396.5
40°	1102.6	1116.0	1131.4	1160.2	1183.8	1211.6	1237.3	1255.8	1285.6	1301.0	1314.3
42.5°	1008.1	1018.4	1034.8	1055.4	1080.0	1110.9	1135.5	1157.1	1189.0	1210.5	1226.0
45°	923.8	930.0	944.4	959.8	981.4	1013.2	1036.9	1064.6	1090.3	1112.9	1131.4
47.5°	844.7	852.9	860.1	870.4	889.9	909.5	937.2	963.9	989.6	1014.3	1032.8
50°	771.7	771.7	783.1	790.2	803.6	821.1	842.7	861.2	893.0	910.5	934.1
52.5°	700.8	705.0	711.1	715.2	725.5	736.8	754.3	769.7	796.4	812.9	835.5
55°	638.2	642.3	645.4	647.4	653.6	666.9	673.1	685.4	703.9	717.3	736.8
57.5°	578.6	580.6	583.7	584.7	585.7	594.0	599.1	602.2	620.7	634.0	650.5
60°	524.1	524.1	527.2	526.1	525.1	529.2	528.2	531.3	542.6	550.8	558.0
62.5°	472.7	472.7	473.7	471.7	470.7	470.7	466.5	469.6	472.7	473.7	478.9
65°	425.4	430.6	426.5	427.5	421.3	419.3	417.2	411.1	410.0	405.9	408.0
67.5°	383.3	387.4	383.3	383.3	378.2	374.1	368.9	358.6	355.6	347.3	345.3
70°	349.4	346.3	348.4	345.3	339.1	334.0	326.8	318.6	308.3	298.0	290.8
72.5°	316.5	316.5	314.5	311.4	308.3	298.0	289.8	280.5	268.2	254.9	244.6
75°	284.7	285.7	285.7	282.6	277.5	268.2	259.0	245.6	232.2	216.8	203.5
77.5°	262.0	262.0	262.0	256.9	251.8	243.5	232.2	217.9	203.5	185.0	169.6
80°	240.5	239.4	239.4	233.3	228.1	218.9	207.6	193.2	177.8	158.3	140.8
82.5°	223.0	222.0	219.9	214.8	207.6	198.3	187.0	171.6	155.2	137.7	116.1
85°	204.5	203.5	201.4	196.3	189.1	180.9	168.5	153.1	136.7	117.1	96.6
87.5°	188.1	187.0	183.9	180.9	172.6	163.4	151.1	136.7	119.2	100.7	80.2
90°	176.8	174.7	172.6	168.5	161.3	151.1	138.7	123.3	105.8	87.3	66.8
92.5°	163.4	162.4	159.3	155.2	149.0	138.7	126.4	112.0	94.5	77.1	57.5
95°	150.0	149.0	147.0	142.8	136.7	127.4	116.1	101.7	85.3	67.8	50.4
97.5°	137.7	137.7	134.6	131.5	124.3	117.1	105.8	92.5	77.1	61.7	45.2
100°	127.4	127.4	124.3	120.2	115.1	107.9	96.6	84.3	69.9	55.5	39.0
102.5°	118.2	117.1	115.1	111.0	105.8	98.7	88.4	77.1	63.7	49.3	34.9
105°	110.0	108.9	106.9	102.8	98.7	90.4	82.2	70.9	57.5	44.2	30.8
107.5°	101.7	100.7	99.7	95.6	90.4	83.2	75.0	63.7	52.4	40.1	27.7
110°	94.5	93.5	91.5	87.3	82.2	76.0	67.8	58.6	47.3	36.0	24.7



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	88.4	87.3	85.3	81.2	77.1	69.9	62.7	52.4	43.2	32.9	21.6
115°	82.2	81.2	79.1	75.0	69.9	63.7	56.5	48.3	38.0	28.8	19.5
117.5°	76.0	75.0	73.0	69.9	64.7	58.6	51.4	43.2	33.9	26.7	17.5
120°	70.9	68.9	66.8	63.7	58.6	53.4	46.2	39.0	30.8	23.6	15.4
122.5°	65.8	63.7	61.7	58.6	53.4	48.3	41.1	34.9	28.8	21.6	14.4
125°	59.6	58.6	56.5	53.4	48.3	43.2	38.0	31.9	25.7	19.5	12.3
127.5°	54.5	53.4	51.4	47.3	43.2	39.0	33.9	28.8	22.6	16.4	11.3
130°	50.4	48.3	46.2	43.2	40.1	36.0	30.8	25.7	20.6	14.4	10.3
132.5°	45.2	43.2	41.1	39.0	36.0	31.9	27.7	22.6	18.5	13.4	9.2
135°	41.1	39.0	37.0	34.9	31.9	28.8	24.7	20.6	16.4	12.3	8.2
137.5°	36.0	34.9	33.9	31.9	28.8	25.7	22.6	17.5	14.4	11.3	7.2
140°	32.9	31.9	30.8	27.7	25.7	22.6	19.5	15.4	12.3	9.2	6.2
142.5°	29.8	28.8	26.7	24.7	22.6	20.6	16.4	14.4	11.3	8.2	6.2
145°	25.7	24.7	23.6	21.6	19.5	16.4	14.4	12.3	10.3	7.2	5.1
147.5°	23.6	22.6	20.6	18.5	16.4	14.4	13.4	11.3	8.2	6.2	4.1
150°	19.5	18.5	17.5	15.4	14.4	13.4	11.3	9.2	7.2	5.1	4.1
152.5°	16.4	15.4	14.4	14.4	12.3	11.3	9.2	8.2	6.2	5.1	3.1
155°	14.4	14.4	13.4	12.3	10.3	9.2	8.2	6.2	5.1	4.1	3.1
157.5°	12.3	11.3	10.3	10.3	9.2	8.2	6.2	5.1	4.1	4.1	3.1
160°	10.3	9.2	9.2	8.2	7.2	6.2	5.1	5.1	4.1	3.1	3.1
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-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2
2.5°	1871.3	1860.0	1870.3	1883.6	1883.6	1881.6	1879.5	1883.6	1893.9	1889.8	1877.5
5°	1868.2	1856.9	1866.2	1879.5	1879.5	1876.5	1874.4	1877.5	1888.8	1883.6	1872.3
7.5°	1862.1	1851.8	1858.0	1870.3	1870.3	1867.2	1865.1	1869.3	1878.5	1873.4	1861.0
10°	1850.8	1839.5	1846.7	1858.0	1856.9	1854.9	1851.8	1856.9	1865.1	1858.0	1843.6
12.5°	1836.4	1825.1	1831.2	1841.5	1840.5	1836.4	1834.3	1837.4	1844.6	1840.5	1825.1
15°	1816.8	1805.5	1810.7	1821.0	1817.9	1814.8	1810.7	1811.7	1821.0	1813.8	1797.3
17.5°	1793.2	1780.9	1785.0	1794.2	1791.2	1788.1	1782.9	1784.0	1794.2	1784.0	1766.5
20°	1764.4	1751.1	1754.2	1765.5	1760.3	1755.2	1750.1	1750.1	1760.3	1749.0	1729.5
22.5°	1733.6	1720.3	1722.3	1730.5	1726.4	1717.2	1712.0	1715.1	1720.3	1705.9	1685.3
25°	1695.6	1678.1	1681.2	1689.4	1686.3	1674.0	1668.9	1670.9	1668.9	1657.6	1636.0
27.5°	1651.4	1632.9	1635.0	1640.1	1636.0	1624.7	1618.5	1619.5	1615.4	1601.0	1576.4
30°	1595.9	1586.7	1585.6	1588.7	1582.5	1571.2	1564.1	1562.0	1561.0	1540.4	1510.6
32.5°	1539.4	1531.2	1526.0	1530.1	1522.9	1511.6	1499.3	1499.3	1489.0	1469.5	1443.8
35°	1481.8	1468.5	1463.3	1466.4	1458.2	1443.8	1433.5	1428.4	1413.0	1388.3	1360.6
37.5°	1407.9	1398.6	1392.4	1395.5	1386.3	1376.0	1356.5	1351.3	1334.9	1301.0	1266.0
40°	1327.7	1320.5	1314.3	1317.4	1307.1	1291.7	1274.3	1266.0	1247.5	1209.5	1181.8
42.5°	1241.4	1238.3	1231.1	1242.4	1221.9	1206.4	1189.0	1175.6	1157.1	1116.0	1084.1
45°	1149.9	1157.1	1140.7	1143.8	1130.4	1117.0	1098.5	1079.0	1060.5	1021.5	985.5
47.5°	1053.3	1058.5	1047.2	1049.2	1034.8	1022.5	1006.0	981.4	960.8	926.9	895.1
50°	953.6	951.6	951.6	949.5	938.2	922.8	906.4	883.8	863.2	832.4	805.7
52.5°	847.8	851.9	854.0	859.1	844.7	835.5	809.8	790.2	774.8	743.0	720.4
55°	746.1	760.4	756.3	758.4	741.9	734.8	714.2	698.8	676.2	657.7	643.3
57.5°	653.6	656.7	658.7	661.8	654.6	640.2	623.8	611.4	594.0	578.6	568.3
60°	564.2	564.2	565.2	570.3	563.1	550.8	538.5	529.2	516.9	507.6	501.5
62.5°	479.9	487.1	488.1	484.0	474.8	468.6	460.4	455.2	447.0	443.9	441.9
65°	401.8	401.8	401.8	403.9	398.7	394.6	389.5	388.4	391.5	387.4	389.5
67.5°	336.0	333.0	330.9	331.9	329.9	327.8	326.8	329.9	336.0	336.0	341.2
70°	279.5	273.3	269.2	269.2	269.2	270.3	273.3	279.5	289.8	293.9	301.1
72.5°	233.3	219.9	213.7	213.7	214.8	218.9	228.1	239.4	248.7	256.9	266.2
75°	189.1	175.7	166.5	165.4	167.5	173.7	187.0	197.3	212.7	224.0	235.3
77.5°	153.1	136.7	125.4	124.3	127.4	136.7	153.1	166.5	183.9	196.3	208.6
80°	122.3	103.8	94.5	88.4	93.5	104.8	123.3	139.8	156.2	172.6	188.1
82.5°	97.6	80.2	65.8	59.6	65.8	81.2	98.7	118.2	134.6	152.1	167.5
85°	77.1	58.6	42.1	36.0	43.2	59.6	79.1	98.7	117.1	134.6	150.0
87.5°	60.6	42.1	25.7	17.5	26.7	44.2	62.7	82.2	101.7	119.2	134.6
90°	47.3	29.8	14.4	2.1	15.4	31.9	50.4	68.9	88.4	105.8	121.3
92.5°	40.1	22.6	8.2	0.0	9.2	23.6	41.1	59.6	77.1	94.5	110.0
95°	33.9	18.5	6.2	0.0	6.2	18.5	33.9	50.4	67.8	85.3	100.7
97.5°	28.8	14.4	4.1	0.0	4.1	14.4	27.7	44.2	59.6	76.0	90.4
100°	24.7	12.3	3.1	0.0	3.1	11.3	23.6	38.0	53.4	68.9	82.2
102.5°	21.6	10.3	2.1	0.0	2.1	9.2	19.5	32.9	46.2	60.6	74.0
105°	18.5	8.2	2.1	0.0	1.0	7.2	16.4	28.8	41.1	54.5	66.8
107.5°	16.4	7.2	2.1	0.0	1.0	6.2	14.4	24.7	37.0	48.3	59.6
110°	14.4	6.2	2.1	0.0	1.0	4.1	12.3	21.6	31.9	43.2	54.5



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.3	5.1	1.0	0.0	0.0	3.1	10.3	18.5	27.7	39.0	48.3
115°	11.3	5.1	1.0	0.0	0.0	2.1	8.2	16.4	24.7	34.9	43.2
117.5°	10.3	4.1	1.0	0.0	1.0	2.1	7.2	14.4	21.6	29.8	39.0
120°	9.2	4.1	1.0	0.0	1.0	1.0	5.1	12.3	18.5	26.7	33.9
122.5°	8.2	4.1	1.0	0.0	1.0	1.0	4.1	10.3	16.4	23.6	29.8
125°	7.2	3.1	2.1	1.0	1.0	1.0	3.1	8.2	14.4	19.5	26.7
127.5°	7.2	3.1	2.1	1.0	1.0	1.0	2.1	7.2	11.3	17.5	23.6
130°	6.2	3.1	2.1	1.0	1.0	1.0	1.0	5.1	10.3	14.4	19.5
132.5°	5.1	3.1	2.1	1.0	1.0	1.0	1.0	3.1	7.2	12.3	16.4
135°	5.1	3.1	2.1	1.0	1.0	1.0	1.0	2.1	5.1	9.2	13.4
137.5°	4.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	4.1	7.2	10.3
140°	4.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	3.1	5.1	8.2
142.5°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	2.1	4.1	6.2
145°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	2.1	4.1
147.5°	3.1	3.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.1
150°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
152.5°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
155°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
157.5°	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
160°	3.1	2.1	2.1	1.0	2.1	1.0	2.1	2.1	2.1	2.1	2.1
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-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2
2.5°	1873.4	1853.8	1864.1	1861.0	1865.1	1873.4	1872.3	1870.3	1870.3	1867.2	1863.1
5°	1867.2	1848.7	1858.0	1852.8	1858.0	1865.1	1864.1	1861.0	1863.1	1858.0	1852.8
7.5°	1854.9	1838.4	1846.7	1842.5	1846.7	1853.8	1850.8	1849.7	1851.8	1843.6	1840.5
10°	1840.5	1822.0	1831.2	1826.1	1831.2	1836.4	1834.3	1830.2	1834.3	1826.1	1823.0
12.5°	1817.9	1802.5	1808.6	1806.6	1809.7	1814.8	1810.7	1807.6	1809.7	1802.5	1796.3
15°	1793.2	1777.8	1782.9	1779.9	1781.9	1788.1	1780.9	1779.9	1777.8	1770.6	1768.6
17.5°	1761.4	1747.0	1752.1	1747.0	1750.1	1748.0	1747.0	1741.8	1741.8	1733.6	1727.4
20°	1722.3	1710.0	1706.9	1702.8	1706.9	1702.8	1696.6	1692.5	1691.5	1683.3	1678.1
22.5°	1677.1	1662.7	1664.8	1653.5	1654.5	1648.3	1638.0	1633.9	1629.8	1620.6	1613.4
25°	1622.6	1608.2	1598.0	1590.8	1581.5	1580.5	1567.1	1556.9	1555.8	1544.5	1543.5
27.5°	1561.0	1544.5	1536.3	1518.8	1507.5	1498.3	1487.0	1476.7	1471.6	1459.2	1451.0
30°	1490.1	1471.6	1451.0	1438.7	1421.2	1414.0	1394.5	1382.2	1378.1	1364.7	1358.5
32.5°	1409.9	1390.4	1373.9	1350.3	1330.8	1320.5	1301.0	1288.6	1283.5	1269.1	1260.9
35°	1322.6	1301.0	1281.5	1258.8	1243.4	1226.0	1202.3	1190.0	1178.7	1173.6	1167.4
37.5°	1231.1	1207.5	1184.9	1162.2	1148.9	1128.3	1107.8	1099.6	1086.2	1081.1	1074.9
40°	1136.6	1112.9	1091.3	1069.8	1054.3	1035.9	1017.4	1014.3	999.9	994.7	990.6
42.5°	1043.0	1018.4	993.7	978.3	967.0	948.5	936.2	933.1	920.8	917.7	917.7
45°	958.8	927.9	907.4	894.0	884.8	869.4	859.1	857.0	846.8	844.7	844.7
47.5°	868.3	839.6	824.2	815.9	807.7	796.4	790.2	790.2	780.0	777.9	776.9
50°	784.1	757.4	746.1	737.8	736.8	728.6	723.5	721.4	721.4	714.2	715.2
52.5°	703.9	690.6	681.3	676.2	670.0	664.9	660.8	660.8	657.7	652.5	654.6
55°	629.9	614.5	615.6	611.4	608.4	605.3	606.3	600.1	599.1	595.0	598.1
57.5°	555.9	555.9	553.9	550.8	545.7	547.7	547.7	547.7	542.6	539.5	542.6
60°	493.3	496.3	491.2	494.3	492.2	493.3	491.2	491.2	488.1	487.1	488.1
62.5°	437.8	442.9	440.9	445.0	442.9	443.9	446.0	441.9	439.8	437.8	439.8
65°	388.4	394.6	393.6	396.7	397.7	398.7	399.7	397.7	395.6	393.6	392.6
67.5°	345.3	351.4	355.6	356.6	357.6	360.7	359.7	357.6	355.6	352.5	351.4
70°	306.2	314.5	319.6	321.6	325.8	323.7	323.7	322.7	320.6	317.5	316.5
72.5°	273.3	282.6	287.7	289.8	293.9	293.9	292.9	291.8	289.8	286.7	285.7
75°	244.6	252.8	260.0	264.1	267.2	267.2	266.2	265.1	263.1	261.0	260.0
77.5°	222.0	229.2	235.3	240.5	242.5	243.5	242.5	240.5	240.5	239.4	238.4
80°	199.4	207.6	213.7	218.9	222.0	222.0	220.9	222.0	219.9	218.9	217.9
82.5°	179.8	189.1	196.3	201.4	203.5	204.5	203.5	204.5	202.4	202.4	202.4
85°	162.4	171.6	179.8	183.9	187.0	188.1	188.1	188.1	187.0	187.0	187.0
87.5°	148.0	157.2	165.4	169.6	172.6	173.7	173.7	174.7	172.6	172.6	172.6
90°	134.6	143.9	152.1	156.2	159.3	161.3	161.3	162.4	161.3	160.3	160.3
92.5°	122.3	132.6	140.8	144.9	148.0	151.1	151.1	152.1	150.0	150.0	150.0
95°	112.0	122.3	129.5	134.6	137.7	139.8	140.8	140.8	139.8	139.8	139.8
97.5°	102.8	112.0	119.2	124.3	127.4	128.5	129.5	130.5	129.5	129.5	129.5
100°	93.5	102.8	110.0	114.1	118.2	119.2	120.2	121.3	121.3	120.2	120.2
102.5°	85.3	94.5	100.7	105.8	108.9	111.0	112.0	112.0	112.0	112.0	112.0
105°	77.1	86.3	92.5	97.6	100.7	102.8	103.8	104.8	104.8	103.8	103.8
107.5°	69.9	78.1	85.3	89.4	93.5	95.6	96.6	96.6	97.6	96.6	96.6
110°	62.7	71.9	78.1	82.2	86.3	88.4	89.4	90.4	90.4	90.4	90.4



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	57.5	64.7	70.9	75.0	79.1	81.2	82.2	83.2	84.3	83.2	83.2
115°	51.4	58.6	64.7	68.9	71.9	74.0	76.0	77.1	77.1	78.1	77.1
117.5°	46.2	52.4	58.6	62.7	65.8	68.9	69.9	70.9	71.9	70.9	70.9
120°	41.1	47.3	52.4	56.5	59.6	62.7	63.7	64.7	65.8	64.7	64.7
122.5°	37.0	42.1	47.3	51.4	54.5	56.5	58.6	58.6	59.6	59.6	59.6
125°	32.9	38.0	42.1	46.2	49.3	51.4	52.4	53.4	53.4	54.5	54.5
127.5°	28.8	32.9	38.0	41.1	44.2	46.2	47.3	48.3	48.3	49.3	49.3
130°	24.7	28.8	32.9	36.0	39.0	41.1	42.1	43.2	44.2	44.2	44.2
132.5°	21.6	25.7	28.8	31.9	33.9	36.0	38.0	39.0	39.0	39.0	39.0
135°	17.5	21.6	24.7	27.7	29.8	31.9	32.9	34.9	34.9	34.9	34.9
137.5°	14.4	18.5	21.6	23.6	25.7	27.7	28.8	29.8	30.8	30.8	30.8
140°	11.3	14.4	17.5	20.6	22.6	23.6	25.7	25.7	26.7	26.7	26.7
142.5°	8.2	11.3	13.4	16.4	18.5	20.6	21.6	22.6	22.6	22.6	22.6
145°	6.2	8.2	10.3	12.3	15.4	16.4	17.5	18.5	19.5	19.5	19.5
147.5°	4.1	6.2	7.2	9.2	11.3	13.4	14.4	15.4	16.4	16.4	16.4
150°	3.1	4.1	6.2	7.2	8.2	10.3	12.3	12.3	13.4	13.4	12.3
152.5°	2.1	3.1	4.1	5.1	6.2	7.2	9.2	9.2	10.3	10.3	10.3
155°	2.1	2.1	2.1	3.1	4.1	5.1	6.2	7.2	7.2	7.2	7.2
157.5°	2.1	2.1	2.1	2.1	2.1	3.1	4.1	5.1	5.1	5.1	5.1
160°	2.1	2.1	1.0	1.0	2.1	2.1	2.1	2.1	3.1	3.1	3.1
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-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2
2.5°	1866.2	1868.2	1868.2	1866.2	1865.1	1869.3	1864.1	1844.6	1850.8	1852.8	1859.0
5°	1856.9	1859.0	1859.0	1859.0	1856.9	1861.0	1855.9	1836.4	1843.6	1846.7	1850.8
7.5°	1843.6	1844.6	1846.7	1845.6	1843.6	1849.7	1844.6	1825.1	1830.2	1835.3	1840.5
10°	1826.1	1826.1	1827.1	1829.2	1827.1	1832.3	1827.1	1809.7	1814.8	1817.9	1824.0
12.5°	1802.5	1804.5	1805.5	1804.5	1803.5	1807.6	1805.5	1789.1	1791.2	1797.3	1803.5
15°	1770.6	1770.6	1775.7	1773.7	1773.7	1777.8	1779.9	1761.4	1764.4	1773.7	1779.9
17.5°	1731.6	1732.6	1736.7	1738.7	1737.7	1744.9	1745.9	1731.6	1730.5	1741.8	1748.0
20°	1681.2	1683.3	1688.4	1692.5	1692.5	1700.7	1703.8	1694.6	1695.6	1707.9	1710.0
22.5°	1619.5	1619.5	1628.8	1635.0	1640.1	1645.2	1654.5	1646.3	1646.3	1662.7	1672.0
25°	1543.5	1550.7	1553.8	1566.1	1573.3	1587.7	1595.9	1596.9	1598.0	1613.4	1619.5
27.5°	1459.2	1461.3	1470.5	1484.9	1493.1	1506.5	1521.9	1525.0	1530.1	1550.7	1559.9
30°	1363.7	1369.8	1373.9	1394.5	1405.8	1423.3	1442.8	1450.0	1454.1	1481.8	1493.1
32.5°	1266.0	1268.1	1285.6	1296.9	1310.2	1328.7	1351.3	1364.7	1372.9	1401.7	1418.1
35°	1168.4	1172.5	1186.9	1201.3	1214.7	1233.2	1256.8	1275.3	1289.7	1315.4	1336.9
37.5°	1079.0	1089.3	1092.4	1106.8	1117.0	1135.5	1152.0	1178.7	1193.1	1219.8	1247.5
40°	998.9	1001.9	1004.0	1018.4	1025.6	1043.0	1066.7	1084.1	1103.7	1123.2	1156.1
42.5°	919.7	921.8	924.9	933.1	941.3	953.6	971.1	988.6	1009.1	1037.9	1059.5
45°	846.8	848.8	850.9	856.0	863.2	874.5	885.8	898.1	918.7	943.4	966.0
47.5°	778.9	783.1	783.1	784.1	789.2	798.5	806.7	822.1	833.4	846.8	872.5
50°	714.2	717.3	718.3	718.3	721.4	727.6	729.6	739.9	750.2	762.5	781.0
52.5°	653.6	653.6	652.5	656.7	656.7	660.8	661.8	668.0	675.2	688.5	696.7
55°	596.0	596.0	599.1	597.1	597.1	599.1	598.1	599.1	605.3	613.5	620.7
57.5°	540.5	539.5	542.6	540.5	539.5	541.6	543.6	539.5	540.5	548.8	548.8
60°	485.0	486.1	489.2	487.1	487.1	487.1	485.0	483.0	480.9	486.1	488.1
62.5°	440.9	437.8	440.9	437.8	439.8	438.8	436.7	432.6	433.7	431.6	429.5
65°	394.6	394.6	395.6	392.6	394.6	394.6	391.5	390.5	384.3	382.3	377.1
67.5°	354.5	354.5	355.6	353.5	353.5	354.5	351.4	348.4	342.2	339.1	331.9
70°	319.6	319.6	319.6	318.6	318.6	318.6	316.5	312.4	306.2	301.1	291.8
72.5°	287.7	288.8	287.7	287.7	290.8	287.7	284.7	280.5	275.4	265.1	256.9
75°	262.0	263.1	262.0	262.0	262.0	261.0	260.0	253.8	247.7	239.4	227.1
77.5°	239.4	239.4	240.5	239.4	239.4	238.4	235.3	230.2	223.0	215.8	201.4
80°	217.9	218.9	219.9	220.9	218.9	217.9	214.8	210.7	201.4	193.2	178.8
82.5°	202.4	201.4	202.4	203.5	201.4	200.4	197.3	192.2	185.0	173.7	159.3
85°	187.0	186.0	186.0	187.0	186.0	183.9	180.9	175.7	168.5	157.2	142.8
87.5°	171.6	172.6	173.7	172.6	171.6	169.6	166.5	161.3	153.1	143.9	128.5
90°	160.3	160.3	160.3	160.3	159.3	157.2	154.1	148.0	140.8	129.5	116.1
92.5°	150.0	150.0	150.0	150.0	149.0	145.9	142.8	137.7	129.5	118.2	105.8
95°	139.8	140.8	139.8	139.8	137.7	136.7	131.5	126.4	119.2	107.9	94.5
97.5°	128.5	129.5	128.5	128.5	127.4	125.4	122.3	116.1	108.9	98.7	86.3
100°	120.2	120.2	119.2	119.2	118.2	116.1	112.0	106.9	99.7	89.4	77.1
102.5°	111.0	112.0	111.0	111.0	108.9	106.9	103.8	98.7	91.5	81.2	69.9
105°	103.8	103.8	102.8	102.8	100.7	98.7	95.6	89.4	83.2	74.0	62.7
107.5°	96.6	96.6	95.6	95.6	93.5	91.5	87.3	82.2	76.0	66.8	56.5
110°	89.4	89.4	89.4	88.4	86.3	83.2	80.2	75.0	68.9	60.6	50.4





TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	84.3	83.2	82.2	81.2	79.1	77.1	73.0	67.8	61.7	54.5	45.2
115°	77.1	77.1	76.0	75.0	73.0	69.9	66.8	62.7	56.5	48.3	40.1
117.5°	70.9	70.9	69.9	68.9	66.8	63.7	60.6	56.5	50.4	43.2	36.0
120°	64.7	64.7	63.7	62.7	60.6	57.5	55.5	50.4	45.2	38.0	31.9
122.5°	59.6	58.6	58.6	56.5	55.5	52.4	49.3	45.2	40.1	33.9	27.7
125°	53.4	53.4	52.4	51.4	50.4	47.3	44.2	40.1	34.9	29.8	24.7
127.5°	48.3	48.3	47.3	46.2	45.2	42.1	39.0	36.0	30.8	25.7	20.6
130°	43.2	43.2	42.1	41.1	40.1	37.0	34.9	30.8	26.7	22.6	17.5
132.5°	39.0	39.0	38.0	37.0	34.9	32.9	30.8	26.7	23.6	19.5	15.4
135°	34.9	33.9	33.9	32.9	30.8	28.8	26.7	23.6	19.5	16.4	12.3
137.5°	30.8	29.8	28.8	27.7	26.7	24.7	22.6	20.6	17.5	13.4	10.3
140°	26.7	25.7	25.7	24.7	22.6	21.6	19.5	16.4	14.4	11.3	8.2
142.5°	22.6	22.6	21.6	20.6	19.5	18.5	16.4	14.4	11.3	9.2	6.2
145°	19.5	18.5	18.5	17.5	16.4	14.4	13.4	11.3	9.2	7.2	5.1
147.5°	15.4	15.4	15.4	14.4	13.4	12.3	11.3	9.2	7.2	5.1	3.1
150°	12.3	12.3	12.3	11.3	10.3	9.2	8.2	7.2	5.1	3.1	2.1
152.5°	10.3	10.3	9.2	9.2	8.2	7.2	6.2	5.1	3.1	2.1	2.1
155°	7.2	7.2	7.2	6.2	6.2	5.1	4.1	3.1	2.1	2.1	2.1
157.5°	5.1	5.1	5.1	4.1	4.1	3.1	3.1	2.1	2.1	2.1	2.1
160°	3.1	3.1	3.1	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2	1868.2
2.5°	1855.9	1854.9	1863.1	1863.1	1853.8	1868.2	1883.6
5°	1849.7	1848.7	1856.9	1856.9	1848.7	1863.1	1879.5
7.5°	1837.4	1838.4	1846.7	1848.7	1838.4	1851.8	1869.3
10°	1824.0	1823.0	1832.3	1834.3	1826.1	1838.4	1854.9
12.5°	1802.5	1802.5	1811.7	1814.8	1806.6	1821.0	1836.4
15°	1779.9	1779.9	1786.0	1791.2	1784.0	1797.3	1812.7
17.5°	1751.1	1750.1	1756.2	1762.4	1755.2	1769.6	1786.0
20°	1714.1	1714.1	1721.3	1728.5	1723.3	1736.7	1755.2
22.5°	1675.0	1670.9	1683.3	1688.4	1685.3	1698.7	1717.2
25°	1625.7	1624.7	1637.0	1644.2	1640.1	1654.5	1670.9
27.5°	1572.3	1571.2	1583.6	1592.8	1590.8	1604.1	1622.6
30°	1507.5	1512.7	1524.0	1539.4	1534.3	1548.6	1568.2
32.5°	1439.7	1444.8	1458.2	1474.6	1475.7	1487.0	1506.5
35°	1358.5	1371.9	1381.1	1402.7	1406.8	1418.1	1438.7
37.5°	1273.2	1288.6	1308.2	1324.6	1332.8	1342.1	1365.7
40°	1177.7	1200.3	1221.9	1241.4	1251.7	1260.9	1283.5
42.5°	1091.3	1108.8	1129.4	1148.9	1167.4	1175.6	1199.2
45°	993.7	1014.3	1032.8	1056.4	1074.9	1084.1	1107.8
47.5°	898.1	918.7	943.4	959.8	979.3	988.6	1011.2
50°	806.7	825.2	845.7	865.3	881.7	889.9	909.5
52.5°	716.3	735.8	755.3	767.6	785.1	791.3	807.7
55°	636.1	649.5	666.9	674.1	691.6	695.7	707.0
57.5°	559.0	568.3	574.4	586.8	599.1	608.4	621.7
60°	489.2	493.3	497.4	504.6	514.8	517.9	523.1
62.5°	426.5	425.4	433.7	435.7	436.7	447.0	441.9
65°	371.0	372.0	364.8	361.7	365.8	368.9	366.9
67.5°	324.7	318.6	312.4	305.2	299.0	302.1	299.0
70°	279.5	274.4	264.1	253.8	249.7	243.5	240.5
72.5°	243.5	231.2	220.9	207.6	200.4	193.2	188.1
75°	215.8	198.3	183.9	169.6	159.3	149.0	147.0
77.5°	187.0	170.6	154.1	138.7	123.3	112.0	107.9
80°	164.4	149.0	129.5	111.0	94.5	80.2	75.0
82.5°	143.9	127.4	107.9	88.4	69.9	54.5	48.3
85°	126.4	108.9	89.4	69.9	51.4	34.9	26.7
87.5°	113.0	93.5	74.0	55.5	36.0	19.5	10.3
90°	100.7	82.2	63.7	44.2	25.7	10.3	0.0
92.5°	89.4	71.9	53.4	36.0	19.5	6.2	1.0
95°	79.1	63.7	45.2	28.8	14.4	4.1	1.0
97.5°	70.9	55.5	39.0	23.6	11.3	3.1	1.0
100°	63.7	48.3	33.9	19.5	9.2	2.1	1.0
102.5°	56.5	43.2	28.8	16.4	7.2	1.0	1.0
105°	50.4	38.0	24.7	14.4	6.2	1.0	1.0
107.5°	45.2	33.9	21.6	12.3	4.1	1.0	1.0
110°	40.1	28.8	18.5	10.3	3.1	1.0	1.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	36.0	25.7	16.4	8.2	2.1	1.0	1.0
115°	31.9	22.6	14.4	7.2	2.1	1.0	1.0
117.5°	27.7	19.5	12.3	5.1	1.0	1.0	1.0
120°	24.7	17.5	10.3	4.1	1.0	1.0	1.0
122.5°	21.6	14.4	8.2	3.1	1.0	1.0	1.0
125°	18.5	12.3	7.2	2.1	1.0	1.0	1.0
127.5°	15.4	10.3	5.1	2.1	1.0	1.0	1.0
130°	13.4	8.2	4.1	1.0	1.0	1.0	1.0
132.5°	11.3	6.2	3.1	1.0	1.0	1.0	1.0
135°	9.2	5.1	2.1	1.0	1.0	1.0	1.0
137.5°	7.2	4.1	2.1	1.0	1.0	1.0	1.0
140°	5.1	3.1	1.0	1.0	1.0	1.0	1.0
142.5°	4.1	2.1	1.0	1.0	1.0	1.0	1.0
145°	3.1	2.1	1.0	1.0	1.0	1.0	1.0
147.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0
150°	2.1	2.1	1.0	1.0	2.1	1.0	1.0
152.5°	2.1	1.0	1.0	1.0	2.1	1.0	1.0
155°	2.1	2.1	2.1	2.1	2.1	2.1	1.0
157.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
160°	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)