

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-L940-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-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

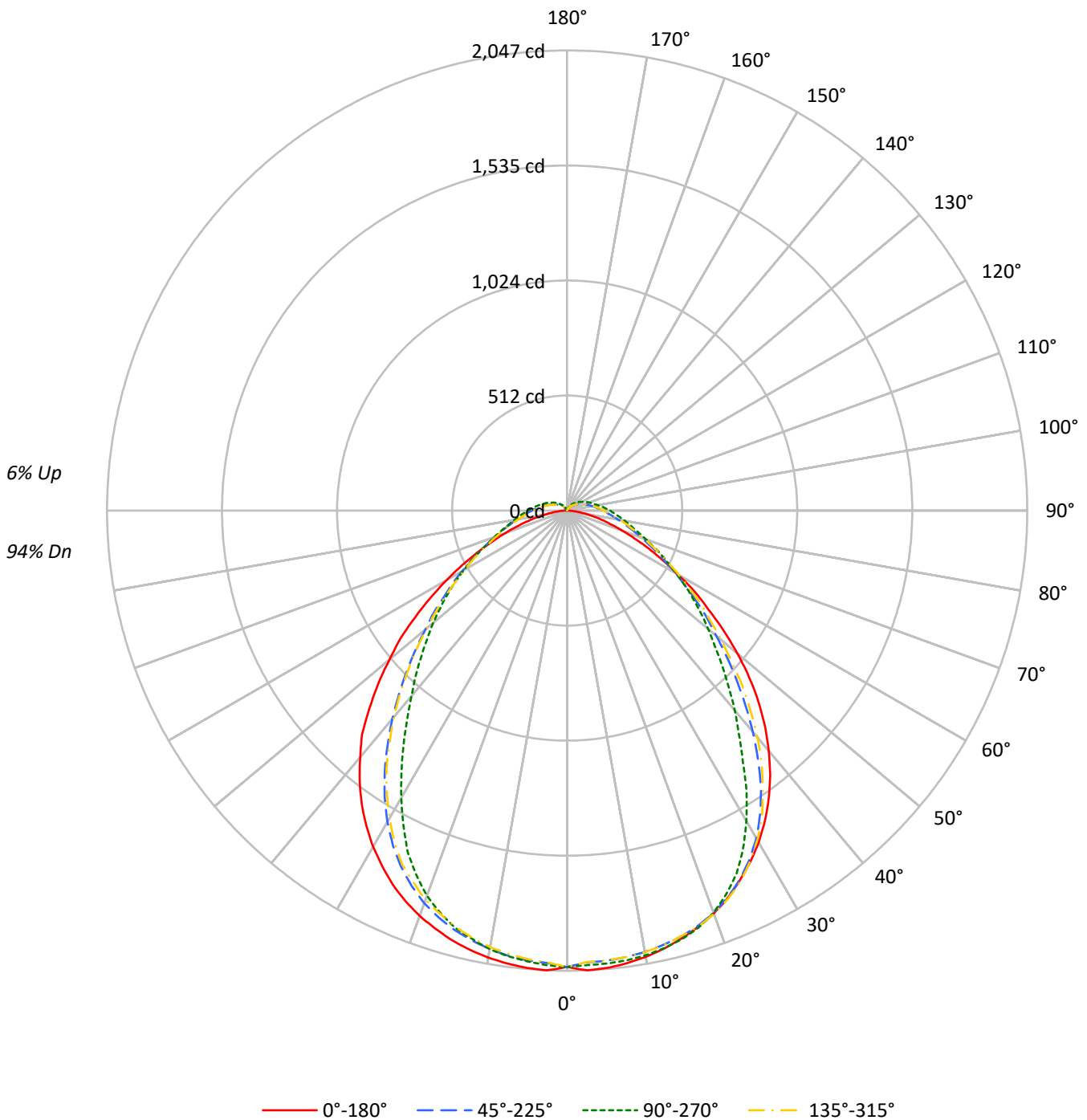
Lumens per Lamp: N/A
Luminaire Lumens: 5138.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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	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°	8203	8203	8203	8203
5°	8273	7942	8273	7907
10°	8247	7731	8261	7624
15°	8206	7500	8243	7305
20°	8155	7203	8203	6899
25°	8037	6762	8126	6364
30°	7880	6115	7983	5661
35°	7628	5321	7775	4955
40°	7262	4654	7454	4318
45°	6773	4046	6993	3814
50°	6099	3555	6368	3376
55°	5294	3140	5679	2980
60°	4472	2756	4877	2598
65°	3688	2437	4060	2260
70°	2960	2163	3314	2001
75°	2356	1997	2652	1837
80°	1742	1927	2052	1760
85°	1141	1937	1538	1781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	3.7
10°-20°	551.9	10.7
20°-30°	818.0	15.9
30°-40°	908.7	17.7
40°-50°	823.8	16.0
50°-60°	638.3	12.4
60°-70°	433.5	8.4
70°-80°	275.8	5.4
80°-90°	176.3	3.4
90°-100°	118.9	2.3
100°-110°	81.4	1.6
110°-120°	54.3	1.1
120°-130°	33.8	0.7
130°-140°	18.7	0.4
140°-150°	8.8	0.2
150°-160°	3.2	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1562.4	30.4
0°-40°	2471.1	48.1
0°-60°	3933.2	76.6
0°-90°	4818.7	93.8
90°-120°	254.6	5.0
90°-150°	315.9	6.1
90°-180°	319.0	6.2
0°-180°	5138.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2030	2030	2030	2030	2030	
5°	2042	2022	2042	2014	2042	194
15°	1970	1973	1979	1922	1970	556
25°	1816	1782	1836	1677	1816	836
35°	1563	1362	1594	1269	1563	975
45°	1204	974	1243	918	1204	925
55°	768	685	824	650	768	692
65°	399	460	439	427	399	400
75°	160	307	180	282	160	172
85°	29	221	39	203	29	35
90°	0	191	2	174	0	2
95°	1	163	0	152	1	1
105°	1	120	0	113	1	1
115°	1	90	0	84	1	1
125°	1	67	1	59	1	1
135°	1	47	1	38	1	1
145°	1	30	1	21	1	1
155°	1	17	1	8	1	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	2047.0	2044.8	2042.5	2039.2	2042.5	2051.5	2045.9	2033.6	2031.4	2011.3	2020.2
5°	2042.5	2039.2	2036.9	2033.6	2038.1	2049.2	2043.6	2032.5	2029.1	2010.1	2020.2
7.5°	2031.4	2029.1	2025.8	2025.8	2030.2	2041.4	2036.9	2024.7	2022.4	2003.4	2014.6
10°	2015.7	2014.6	2012.4	2012.4	2016.8	2030.2	2024.7	2013.5	2011.3	1993.4	2005.7
12.5°	1995.6	1996.7	1993.4	1993.4	2000.1	2013.5	2009.0	1996.7	1994.5	1978.9	1991.2
15°	1969.9	1971.1	1968.8	1969.9	1976.6	1992.3	1986.7	1975.5	1973.3	1961.0	1971.1
17.5°	1940.9	1942.0	1942.0	1940.9	1948.7	1964.4	1959.9	1949.8	1946.5	1936.4	1948.7
20°	1907.4	1907.4	1907.4	1907.4	1916.3	1932.0	1926.4	1918.6	1911.9	1904.0	1914.1
22.5°	1866.1	1865.0	1866.1	1869.4	1878.4	1890.6	1887.3	1878.4	1868.3	1863.8	1871.7
25°	1815.8	1819.2	1820.3	1823.6	1834.8	1844.9	1841.5	1832.6	1816.9	1813.6	1815.8
27.5°	1763.3	1765.6	1768.9	1767.8	1783.4	1793.5	1786.8	1779.0	1756.6	1753.3	1751.1
30°	1704.1	1707.5	1709.7	1708.6	1720.9	1732.1	1725.4	1715.3	1685.2	1682.9	1665.1
32.5°	1637.1	1640.5	1642.7	1642.7	1660.6	1665.1	1652.8	1638.3	1605.9	1598.1	1582.4
35°	1563.4	1566.8	1567.9	1567.9	1585.8	1584.7	1569.0	1548.9	1513.2	1503.1	1476.3
37.5°	1484.2	1486.4	1487.5	1494.2	1502.0	1495.3	1475.2	1449.5	1422.7	1394.8	1365.8
40°	1394.8	1398.2	1400.4	1404.9	1412.7	1404.9	1375.8	1344.6	1315.5	1284.3	1255.2
42.5°	1303.2	1313.3	1311.1	1309.9	1314.4	1293.2	1270.9	1235.1	1206.1	1173.7	1144.7
45°	1203.8	1202.7	1208.3	1210.5	1209.4	1191.6	1160.3	1127.9	1098.9	1065.4	1040.8
47.5°	1098.9	1097.8	1102.2	1104.5	1097.8	1078.8	1054.2	1017.4	992.8	963.7	944.8
50°	988.3	988.3	995.0	988.3	985.0	966.0	945.9	909.0	890.0	864.4	853.2
52.5°	877.8	887.8	881.1	878.9	875.5	856.5	840.9	810.8	795.1	784.0	770.6
55°	768.3	779.5	775.0	771.7	770.6	754.9	740.4	718.1	708.0	700.2	692.4
57.5°	675.6	674.5	672.3	668.9	670.0	657.8	643.2	631.0	626.5	623.1	625.4
60°	568.4	577.4	574.0	575.1	576.2	574.0	561.7	553.9	555.0	556.1	559.5
62.5°	480.2	488.0	493.6	489.1	491.4	494.7	488.0	485.8	490.3	494.7	499.2
65°	398.7	406.5	412.1	411.0	417.7	424.4	423.2	425.5	435.5	441.1	446.7
67.5°	325.0	332.8	340.6	341.7	351.8	361.8	366.3	374.1	385.3	393.1	399.8
70°	261.3	268.0	277.0	282.5	295.9	309.3	317.2	332.8	339.5	350.7	355.1
72.5°	204.4	209.9	222.2	235.6	246.8	263.6	279.2	292.6	302.6	314.9	320.5
75°	159.7	161.9	175.3	191.0	206.6	225.6	242.3	256.9	270.3	282.5	291.5
77.5°	117.3	120.6	132.9	154.1	172.0	192.1	211.1	226.7	241.2	253.5	265.8
80°	81.5	88.2	101.6	122.8	142.9	165.3	183.1	201.0	216.6	228.9	241.2
82.5°	52.5	58.1	77.1	98.3	119.5	141.8	160.8	178.7	195.4	208.8	220.0
85°	29.0	36.9	55.8	78.2	99.4	121.7	141.8	159.7	176.4	188.7	199.9
87.5°	11.2	22.3	40.2	61.4	82.6	103.9	125.1	141.8	158.6	172.0	182.0
90°	0.0	13.4	30.2	51.4	72.6	93.8	113.9	131.8	147.4	159.7	170.9
92.5°	1.1	8.9	23.5	41.3	61.4	81.5	100.5	118.4	134.0	146.3	156.3
95°	1.1	6.7	19.0	35.7	53.6	72.6	90.5	107.2	121.7	134.0	144.1
97.5°	1.1	4.5	15.6	31.3	46.9	65.9	82.6	98.3	111.7	124.0	131.8
100°	1.1	4.5	13.4	26.8	42.4	59.2	74.8	90.5	102.7	112.8	121.7
102.5°	1.1	3.4	11.2	23.5	38.0	52.5	68.1	82.6	93.8	103.9	112.8
105°	1.1	3.4	10.1	20.1	33.5	48.0	61.4	74.8	87.1	96.0	103.9
107.5°	1.1	2.2	8.9	16.8	29.0	43.6	57.0	68.1	79.3	88.2	96.0
110°	1.1	2.2	7.8	15.6	25.7	39.1	51.4	62.5	72.6	81.5	88.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	2.2	6.7	14.5	23.5	34.6	46.9	57.0	67.0	74.8	81.5
115°	1.1	2.2	6.7	13.4	21.2	30.2	41.3	52.5	60.3	69.2	74.8
117.5°	1.1	2.2	5.6	11.2	20.1	27.9	38.0	46.9	55.8	63.7	69.2
120°	1.1	2.2	5.6	10.1	17.9	25.7	33.5	42.4	51.4	57.0	62.5
122.5°	1.1	2.2	4.5	10.1	15.6	23.5	30.2	38.0	45.8	52.5	58.1
125°	1.1	2.2	4.5	8.9	14.5	21.2	27.9	33.5	41.3	46.9	52.5
127.5°	1.1	2.2	4.5	7.8	13.4	19.0	25.7	31.3	36.9	42.4	46.9
130°	1.1	2.2	3.4	6.7	12.3	16.8	22.3	29.0	33.5	38.0	42.4
132.5°	1.1	2.2	3.4	6.7	10.1	14.5	20.1	25.7	30.2	34.6	38.0
135°	1.1	2.2	3.4	5.6	8.9	13.4	16.8	22.3	26.8	31.3	34.6
137.5°	1.1	2.2	3.4	5.6	7.8	11.2	14.5	19.0	23.5	26.8	31.3
140°	1.1	2.2	3.4	4.5	6.7	10.1	13.4	15.6	20.1	23.5	26.8
142.5°	1.1	2.2	3.4	4.5	6.7	8.9	11.2	13.4	16.8	20.1	23.5
145°	1.1	2.2	3.4	4.5	5.6	7.8	10.1	12.3	13.4	16.8	19.0
147.5°	1.1	2.2	3.4	4.5	4.5	6.7	8.9	10.1	12.3	13.4	15.6
150°	1.1	2.2	3.4	3.4	4.5	5.6	7.8	8.9	10.1	12.3	13.4
152.5°	1.1	2.2	3.4	3.4	4.5	5.6	6.7	7.8	8.9	10.1	11.2
155°	1.1	2.2	3.4	3.4	3.4	4.5	5.6	6.7	7.8	8.9	10.1
157.5°	2.2	2.2	2.2	3.4	3.4	4.5	4.5	5.6	6.7	6.7	7.8
160°	2.2	2.2	2.2	3.4	3.4	3.4	4.5	4.5	5.6	5.6	6.7
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°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	2018.0	2021.3	2031.4	2031.4	2029.1	2026.9	2026.9	2023.5	2025.8	2030.2	2028.0
5°	2018.0	2021.3	2031.4	2031.4	2029.1	2026.9	2025.8	2022.4	2025.8	2030.2	2028.0
7.5°	2011.3	2015.7	2025.8	2025.8	2023.5	2022.4	2020.2	2018.0	2021.3	2025.8	2023.5
10°	2002.3	2006.8	2016.8	2016.8	2014.6	2014.6	2011.3	2009.0	2013.5	2016.8	2015.7
12.5°	1988.9	1994.5	2003.4	2002.3	2000.1	2001.2	1997.9	1993.4	1997.9	2001.2	2002.3
15°	1969.9	1976.6	1985.6	1983.3	1980.0	1982.2	1976.6	1973.3	1976.6	1983.3	1982.2
17.5°	1945.4	1949.8	1956.5	1956.5	1953.2	1950.9	1948.7	1945.4	1947.6	1952.1	1953.2
20°	1910.7	1916.3	1919.7	1916.3	1915.2	1911.9	1907.4	1904.0	1908.5	1915.2	1916.3
22.5°	1865.0	1866.1	1873.9	1866.1	1860.5	1859.4	1854.9	1848.2	1854.9	1860.5	1861.6
25°	1808.0	1813.6	1810.2	1796.8	1796.8	1787.9	1785.7	1782.3	1783.4	1793.5	1798.0
27.5°	1735.4	1737.7	1728.7	1717.6	1707.5	1701.9	1694.1	1695.2	1695.2	1708.6	1713.1
30°	1656.1	1643.8	1636.0	1618.2	1610.3	1596.9	1594.7	1594.7	1592.5	1599.2	1619.3
32.5°	1561.2	1544.5	1532.2	1515.4	1502.0	1488.6	1481.9	1485.3	1484.2	1500.9	1507.6
35°	1457.3	1447.3	1421.6	1400.4	1392.6	1372.5	1372.5	1362.4	1369.1	1388.1	1395.9
37.5°	1347.9	1332.3	1311.1	1287.6	1282.0	1266.4	1260.8	1255.2	1269.7	1273.1	1280.9
40°	1236.2	1221.7	1201.6	1179.3	1179.3	1160.3	1160.3	1160.3	1161.4	1168.1	1182.6
42.5°	1130.1	1114.5	1096.6	1081.0	1078.8	1064.3	1064.3	1063.1	1065.4	1071.0	1084.4
45°	1027.4	1015.1	996.1	988.3	989.4	973.8	977.2	973.8	978.3	983.9	988.3
47.5°	932.5	924.7	916.8	905.7	902.3	901.2	895.6	891.2	899.0	899.0	905.7
50°	844.3	839.8	835.3	828.6	829.7	825.3	818.6	818.6	824.2	825.3	829.7
52.5°	767.2	761.6	756.0	757.2	758.3	756.0	752.7	749.3	752.7	754.9	760.5
55°	690.1	685.7	691.3	689.0	691.3	689.0	686.8	684.6	690.1	686.8	692.4
57.5°	620.9	625.4	627.6	623.1	626.5	624.3	625.4	622.0	626.5	628.7	627.6
60°	557.3	564.0	560.6	561.7	566.2	564.0	559.5	562.8	567.3	568.4	567.3
62.5°	499.2	507.0	510.4	508.1	509.2	507.0	510.4	505.9	511.5	513.7	510.4
65°	446.7	455.6	457.9	457.9	457.9	455.6	459.0	460.1	462.3	462.3	460.1
67.5°	402.0	409.8	412.1	414.3	412.1	409.8	409.8	411.0	415.4	417.7	415.4
70°	361.8	369.6	370.8	370.8	371.9	374.1	369.6	371.9	375.2	376.3	375.2
72.5°	327.2	335.0	337.3	336.1	337.3	338.4	338.4	336.1	339.5	341.7	341.7
75°	299.3	303.8	306.0	306.0	307.1	308.2	308.2	307.1	309.3	310.5	311.6
77.5°	273.6	277.0	280.3	280.3	281.4	280.3	282.5	282.5	283.7	284.8	285.9
80°	247.9	252.4	254.6	255.7	258.0	259.1	259.1	259.1	260.2	261.3	261.3
82.5°	227.8	231.2	234.5	237.9	237.9	239.0	239.0	239.0	240.1	240.1	241.2
85°	207.7	212.2	215.5	217.8	218.9	220.0	220.0	221.1	221.1	221.1	222.2
87.5°	189.8	195.4	197.7	199.9	201.0	203.2	203.2	203.2	204.4	204.4	204.4
90°	177.6	183.1	185.4	187.6	188.7	189.8	189.8	191.0	191.0	192.1	192.1
92.5°	163.0	168.6	173.1	173.1	174.2	176.4	175.3	175.3	176.4	177.6	177.6
95°	151.9	156.3	159.7	160.8	161.9	161.9	161.9	163.0	161.9	163.0	163.0
97.5°	138.5	142.9	146.3	148.5	149.6	149.6	149.6	150.8	149.6	150.8	150.8
100°	127.3	131.8	135.1	136.2	138.5	138.5	138.5	138.5	138.5	138.5	139.6
102.5°	118.4	122.8	125.1	126.2	127.3	128.4	128.4	128.4	128.4	129.5	129.5
105°	109.4	113.9	116.1	117.3	118.4	119.5	119.5	119.5	120.6	120.6	119.5
107.5°	101.6	105.0	107.2	109.4	110.6	110.6	111.7	111.7	111.7	111.7	111.7
110°	93.8	97.2	100.5	102.7	102.7	103.9	103.9	105.0	105.0	103.9	105.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	86.0	90.5	92.7	94.9	96.0	97.2	97.2	97.2	97.2	97.2	97.2
115°	79.3	83.8	86.0	88.2	89.3	90.5	90.5	90.5	90.5	90.5	90.5
117.5°	73.7	78.2	80.4	81.5	82.6	83.8	84.9	84.9	84.9	84.9	83.8
120°	68.1	71.5	73.7	75.9	77.1	78.2	78.2	78.2	78.2	78.2	78.2
122.5°	62.5	65.9	68.1	70.4	71.5	72.6	72.6	72.6	72.6	72.6	72.6
125°	57.0	60.3	62.5	64.8	65.9	67.0	67.0	67.0	67.0	67.0	67.0
127.5°	51.4	54.7	58.1	59.2	60.3	61.4	61.4	61.4	62.5	61.4	61.4
130°	45.8	49.1	52.5	53.6	54.7	55.8	57.0	57.0	57.0	57.0	55.8
132.5°	41.3	44.7	46.9	48.0	50.3	50.3	51.4	51.4	51.4	51.4	50.3
135°	38.0	40.2	42.4	43.6	45.8	45.8	45.8	46.9	46.9	45.8	44.7
137.5°	33.5	35.7	38.0	39.1	40.2	41.3	41.3	42.4	41.3	41.3	41.3
140°	31.3	32.4	34.6	35.7	36.9	36.9	36.9	38.0	38.0	36.9	36.9
142.5°	26.8	29.0	31.3	32.4	33.5	33.5	33.5	33.5	33.5	33.5	33.5
145°	22.3	25.7	26.8	29.0	29.0	30.2	30.2	30.2	30.2	30.2	29.0
147.5°	19.0	21.2	24.6	25.7	25.7	26.8	26.8	26.8	26.8	26.8	25.7
150°	14.5	16.8	20.1	22.3	22.3	23.5	23.5	23.5	23.5	22.3	22.3
152.5°	12.3	14.5	15.6	17.9	19.0	19.0	19.0	20.1	19.0	19.0	19.0
155°	11.2	12.3	13.4	14.5	15.6	16.8	16.8	16.8	16.8	15.6	15.6
157.5°	8.9	10.1	11.2	12.3	13.4	14.5	14.5	14.5	14.5	14.5	13.4
160°	6.7	7.8	8.9	8.9	10.1	11.2	12.3	11.2	11.2	11.2	11.2
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	2025.8	2024.7	2028.0	2022.4	2005.7	2010.1	2007.9	2018.0	2020.2	2022.4	2032.5
5°	2025.8	2024.7	2026.9	2022.4	2004.6	2007.9	2005.7	2015.7	2018.0	2019.1	2029.1
7.5°	2021.3	2020.2	2023.5	2018.0	1999.0	2003.4	2000.1	2010.1	2011.3	2012.4	2021.3
10°	2012.4	2011.3	2013.5	2009.0	1990.0	1994.5	1990.0	2000.1	2000.1	2002.3	2009.0
12.5°	1999.0	1996.7	2001.2	1995.6	1974.4	1980.0	1977.8	1984.5	1985.6	1986.7	1993.4
15°	1980.0	1977.8	1981.1	1977.8	1958.8	1959.9	1956.5	1966.6	1967.7	1965.5	1972.2
17.5°	1952.1	1949.8	1956.5	1954.3	1935.3	1939.8	1938.7	1940.9	1944.2	1938.7	1947.6
20°	1917.4	1919.7	1921.9	1923.0	1908.5	1908.5	1907.4	1911.9	1915.2	1910.7	1917.4
22.5°	1866.1	1871.7	1878.4	1880.6	1870.5	1869.4	1876.1	1873.9	1877.2	1875.0	1879.5
25°	1801.3	1812.5	1819.2	1825.9	1820.3	1822.5	1832.6	1834.8	1834.8	1833.7	1838.2
27.5°	1720.9	1735.4	1747.7	1762.2	1756.6	1761.1	1777.9	1780.1	1784.6	1780.1	1789.0
30°	1624.9	1638.3	1661.7	1682.9	1685.2	1691.9	1715.3	1717.6	1729.8	1725.4	1728.7
32.5°	1528.8	1535.5	1562.3	1583.5	1596.9	1613.7	1639.4	1643.8	1660.6	1663.9	1663.9
35°	1408.2	1427.2	1451.8	1481.9	1498.7	1516.5	1551.2	1557.9	1582.4	1590.2	1599.2
37.5°	1306.6	1324.5	1340.1	1371.4	1401.5	1421.6	1449.5	1466.3	1492.0	1506.5	1517.7
40°	1198.3	1212.8	1229.5	1260.8	1286.5	1316.6	1344.6	1364.7	1397.0	1413.8	1428.3
42.5°	1095.5	1106.7	1124.6	1146.9	1173.7	1207.2	1234.0	1257.5	1292.1	1315.5	1332.3
45°	1004.0	1010.7	1026.3	1043.0	1066.5	1101.1	1126.8	1156.9	1184.9	1209.4	1229.5
47.5°	918.0	926.9	934.7	945.9	967.1	988.3	1018.5	1047.5	1075.4	1102.2	1122.3
50°	838.7	838.7	851.0	858.8	873.3	892.3	915.7	935.8	970.4	989.4	1015.1
52.5°	761.6	766.1	772.8	777.3	788.4	800.7	819.7	836.4	865.5	883.3	907.9
55°	693.5	698.0	701.3	703.5	710.2	724.8	731.5	744.9	765.0	779.5	800.7
57.5°	628.7	631.0	634.3	635.4	636.5	645.5	651.1	654.4	674.5	689.0	706.9
60°	569.5	569.5	572.9	571.8	570.7	575.1	574.0	577.4	589.6	598.6	606.4
62.5°	513.7	513.7	514.8	512.6	511.5	511.5	507.0	510.4	513.7	514.8	520.4
65°	462.3	467.9	463.4	464.6	457.9	455.6	453.4	446.7	445.6	441.1	443.3
67.5°	416.5	421.0	416.5	416.5	411.0	406.5	400.9	389.7	386.4	377.5	375.2
70°	379.7	376.3	378.6	375.2	368.5	362.9	355.1	346.2	335.0	323.9	316.0
72.5°	344.0	344.0	341.7	338.4	335.0	323.9	314.9	304.9	291.5	277.0	265.8
75°	309.3	310.5	310.5	307.1	301.5	291.5	281.4	266.9	252.4	235.6	221.1
77.5°	284.8	284.8	284.8	279.2	273.6	264.7	252.4	236.7	221.1	201.0	184.3
80°	261.3	260.2	260.2	253.5	247.9	237.9	225.6	209.9	193.2	172.0	153.0
82.5°	242.3	241.2	239.0	233.4	225.6	215.5	203.2	186.5	168.6	149.6	126.2
85°	222.2	221.1	218.9	213.3	205.5	196.5	183.1	166.4	148.5	127.3	105.0
87.5°	204.4	203.2	199.9	196.5	187.6	177.6	164.2	148.5	129.5	109.4	87.1
90°	192.1	189.8	187.6	183.1	175.3	164.2	150.8	134.0	115.0	94.9	72.6
92.5°	177.6	176.4	173.1	168.6	161.9	150.8	137.4	121.7	102.7	83.8	62.5
95°	163.0	161.9	159.7	155.2	148.5	138.5	126.2	110.6	92.7	73.7	54.7
97.5°	149.6	149.6	146.3	142.9	135.1	127.3	115.0	100.5	83.8	67.0	49.1
100°	138.5	138.5	135.1	130.7	125.1	117.3	105.0	91.6	75.9	60.3	42.4
102.5°	128.4	127.3	125.1	120.6	115.0	107.2	96.0	83.8	69.2	53.6	38.0
105°	119.5	118.4	116.1	111.7	107.2	98.3	89.3	77.1	62.5	48.0	33.5
107.5°	110.6	109.4	108.3	103.9	98.3	90.5	81.5	69.2	57.0	43.6	30.2
110°	102.7	101.6	99.4	94.9	89.3	82.6	73.7	63.7	51.4	39.1	26.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	96.0	94.9	92.7	88.2	83.8	75.9	68.1	57.0	46.9	35.7	23.5
115°	89.3	88.2	86.0	81.5	75.9	69.2	61.4	52.5	41.3	31.3	21.2
117.5°	82.6	81.5	79.3	75.9	70.4	63.7	55.8	46.9	36.9	29.0	19.0
120°	77.1	74.8	72.6	69.2	63.7	58.1	50.3	42.4	33.5	25.7	16.8
122.5°	71.5	69.2	67.0	63.7	58.1	52.5	44.7	38.0	31.3	23.5	15.6
125°	64.8	63.7	61.4	58.1	52.5	46.9	41.3	34.6	27.9	21.2	13.4
127.5°	59.2	58.1	55.8	51.4	46.9	42.4	36.9	31.3	24.6	17.9	12.3
130°	54.7	52.5	50.3	46.9	43.6	39.1	33.5	27.9	22.3	15.6	11.2
132.5°	49.1	46.9	44.7	42.4	39.1	34.6	30.2	24.6	20.1	14.5	10.1
135°	44.7	42.4	40.2	38.0	34.6	31.3	26.8	22.3	17.9	13.4	8.9
137.5°	39.1	38.0	36.9	34.6	31.3	27.9	24.6	19.0	15.6	12.3	7.8
140°	35.7	34.6	33.5	30.2	27.9	24.6	21.2	16.8	13.4	10.1	6.7
142.5°	32.4	31.3	29.0	26.8	24.6	22.3	17.9	15.6	12.3	8.9	6.7
145°	27.9	26.8	25.7	23.5	21.2	17.9	15.6	13.4	11.2	7.8	5.6
147.5°	25.7	24.6	22.3	20.1	17.9	15.6	14.5	12.3	8.9	6.7	4.5
150°	21.2	20.1	19.0	16.8	15.6	14.5	12.3	10.1	7.8	5.6	4.5
152.5°	17.9	16.8	15.6	15.6	13.4	12.3	10.1	8.9	6.7	5.6	3.4
155°	15.6	15.6	14.5	13.4	11.2	10.1	8.9	6.7	5.6	4.5	3.4
157.5°	13.4	12.3	11.2	11.2	10.1	8.9	6.7	5.6	4.5	4.5	3.4
160°	11.2	10.1	10.1	8.9	7.8	6.7	5.6	5.6	4.5	3.4	3.4
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	2033.6	2021.3	2032.5	2047.0	2047.0	2044.8	2042.5	2047.0	2058.2	2053.7	2040.3
5°	2030.2	2018.0	2028.0	2042.5	2042.5	2039.2	2036.9	2040.3	2052.6	2047.0	2034.7
7.5°	2023.5	2012.4	2019.1	2032.5	2032.5	2029.1	2026.9	2031.4	2041.4	2035.8	2022.4
10°	2011.3	1999.0	2006.8	2019.1	2018.0	2015.7	2012.4	2018.0	2026.9	2019.1	2003.4
12.5°	1995.6	1983.3	1990.0	2001.2	2000.1	1995.6	1993.4	1996.7	2004.6	2000.1	1983.3
15°	1974.4	1962.1	1967.7	1978.9	1975.5	1972.2	1967.7	1968.8	1978.9	1971.1	1953.2
17.5°	1948.7	1935.3	1939.8	1949.8	1946.5	1943.1	1937.5	1938.7	1949.8	1938.7	1919.7
20°	1917.4	1902.9	1906.3	1918.6	1913.0	1907.4	1901.8	1901.8	1913.0	1900.7	1879.5
22.5°	1883.9	1869.4	1871.7	1880.6	1876.1	1866.1	1860.5	1863.8	1869.4	1853.8	1831.5
25°	1842.6	1823.6	1827.0	1835.9	1832.6	1819.2	1813.6	1815.8	1813.6	1801.3	1777.9
27.5°	1794.6	1774.5	1776.7	1782.3	1777.9	1765.6	1758.9	1760.0	1755.5	1739.9	1713.1
30°	1734.3	1724.3	1723.1	1726.5	1719.8	1707.5	1699.7	1697.4	1696.3	1674.0	1641.6
32.5°	1672.9	1663.9	1658.4	1662.8	1655.0	1642.7	1629.3	1629.3	1618.2	1596.9	1569.0
35°	1610.3	1595.8	1590.2	1593.6	1584.7	1569.0	1557.9	1552.3	1535.5	1508.7	1478.6
37.5°	1529.9	1519.9	1513.2	1516.5	1506.5	1495.3	1474.1	1468.5	1450.6	1413.8	1375.8
40°	1442.8	1435.0	1428.3	1431.7	1420.5	1403.7	1384.8	1375.8	1355.7	1314.4	1284.3
42.5°	1349.0	1345.7	1337.9	1350.1	1327.8	1311.1	1292.1	1277.6	1257.5	1212.8	1178.2
45°	1249.6	1257.5	1239.6	1242.9	1228.4	1213.9	1193.8	1172.6	1152.5	1110.0	1071.0
47.5°	1144.7	1150.2	1138.0	1140.2	1124.6	1111.2	1093.3	1066.5	1044.2	1007.3	972.7
50°	1036.3	1034.1	1034.1	1031.9	1019.6	1002.8	985.0	960.4	938.1	904.6	875.5
52.5°	921.3	925.8	928.0	933.6	918.0	907.9	880.0	858.8	842.0	807.4	782.8
55°	810.8	826.4	821.9	824.2	806.3	798.5	776.1	759.4	734.8	714.7	699.1
57.5°	710.2	713.6	715.8	719.2	711.4	695.7	677.9	664.5	645.5	628.7	617.6
60°	613.1	613.1	614.2	619.8	612.0	598.6	585.2	575.1	561.7	551.7	545.0
62.5°	521.5	529.3	530.5	526.0	515.9	509.2	500.3	494.7	485.8	482.4	480.2
65°	436.6	436.6	436.6	438.9	433.3	428.8	423.2	422.1	425.5	421.0	423.2
67.5°	365.2	361.8	359.6	360.7	358.5	356.2	355.1	358.5	365.2	365.2	370.8
70°	303.8	297.1	292.6	292.6	292.6	293.7	297.1	303.8	314.9	319.4	327.2
72.5°	253.5	239.0	232.3	232.3	233.4	237.9	247.9	260.2	270.3	279.2	289.2
75°	205.5	191.0	180.9	179.8	182.0	188.7	203.2	214.4	231.2	243.4	255.7
77.5°	166.4	148.5	136.2	135.1	138.5	148.5	166.4	180.9	199.9	213.3	226.7
80°	132.9	112.8	102.7	96.0	101.6	113.9	134.0	151.9	169.7	187.6	204.4
82.5°	106.1	87.1	71.5	64.8	71.5	88.2	107.2	128.4	146.3	165.3	182.0
85°	83.8	63.7	45.8	39.1	46.9	64.8	86.0	107.2	127.3	146.3	163.0
87.5°	65.9	45.8	27.9	19.0	29.0	48.0	68.1	89.3	110.6	129.5	146.3
90°	51.4	32.4	15.6	2.2	16.8	34.6	54.7	74.8	96.0	115.0	131.8
92.5°	43.6	24.6	8.9	0.0	10.1	25.7	44.7	64.8	83.8	102.7	119.5
95°	36.9	20.1	6.7	0.0	6.7	20.1	36.9	54.7	73.7	92.7	109.4
97.5°	31.3	15.6	4.5	0.0	4.5	15.6	30.2	48.0	64.8	82.6	98.3
100°	26.8	13.4	3.4	0.0	3.4	12.3	25.7	41.3	58.1	74.8	89.3
102.5°	23.5	11.2	2.2	0.0	2.2	10.1	21.2	35.7	50.3	65.9	80.4
105°	20.1	8.9	2.2	0.0	1.1	7.8	17.9	31.3	44.7	59.2	72.6
107.5°	17.9	7.8	2.2	0.0	1.1	6.7	15.6	26.8	40.2	52.5	64.8
110°	15.6	6.7	2.2	0.0	1.1	4.5	13.4	23.5	34.6	46.9	59.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	13.4	5.6	1.1	0.0	0.0	3.4	11.2	20.1	30.2	42.4	52.5
115°	12.3	5.6	1.1	0.0	0.0	2.2	8.9	17.9	26.8	38.0	46.9
117.5°	11.2	4.5	1.1	0.0	1.1	2.2	7.8	15.6	23.5	32.4	42.4
120°	10.1	4.5	1.1	0.0	1.1	1.1	5.6	13.4	20.1	29.0	36.9
122.5°	8.9	4.5	1.1	0.0	1.1	1.1	4.5	11.2	17.9	25.7	32.4
125°	7.8	3.4	2.2	1.1	1.1	1.1	3.4	8.9	15.6	21.2	29.0
127.5°	7.8	3.4	2.2	1.1	1.1	1.1	2.2	7.8	12.3	19.0	25.7
130°	6.7	3.4	2.2	1.1	1.1	1.1	1.1	5.6	11.2	15.6	21.2
132.5°	5.6	3.4	2.2	1.1	1.1	1.1	1.1	3.4	7.8	13.4	17.9
135°	5.6	3.4	2.2	1.1	1.1	1.1	1.1	2.2	5.6	10.1	14.5
137.5°	4.5	2.2	2.2	1.1	1.1	1.1	1.1	1.1	4.5	7.8	11.2
140°	4.5	2.2	2.2	1.1	1.1	1.1	1.1	1.1	3.4	5.6	8.9
142.5°	3.4	2.2	2.2	1.1	1.1	1.1	1.1	1.1	2.2	4.5	6.7
145°	3.4	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2	4.5
147.5°	3.4	3.4	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2	3.4
150°	3.4	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
152.5°	3.4	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
155°	3.4	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
157.5°	3.4	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
160°	3.4	2.2	2.2	1.1	2.2	1.1	2.2	2.2	2.2	2.2	2.2
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	2035.8	2014.6	2025.8	2022.4	2026.9	2035.8	2034.7	2032.5	2032.5	2029.1	2024.7
5°	2029.1	2009.0	2019.1	2013.5	2019.1	2026.9	2025.8	2022.4	2024.7	2019.1	2013.5
7.5°	2015.7	1997.9	2006.8	2002.3	2006.8	2014.6	2011.3	2010.1	2012.4	2003.4	2000.1
10°	2000.1	1980.0	1990.0	1984.5	1990.0	1995.6	1993.4	1988.9	1993.4	1984.5	1981.1
12.5°	1975.5	1958.8	1965.5	1963.2	1966.6	1972.2	1967.7	1964.4	1966.6	1958.8	1952.1
15°	1948.7	1932.0	1937.5	1934.2	1936.4	1943.1	1935.3	1934.2	1932.0	1924.1	1921.9
17.5°	1914.1	1898.5	1904.0	1898.5	1901.8	1899.6	1898.5	1892.9	1892.9	1883.9	1877.2
20°	1871.7	1858.3	1854.9	1850.4	1854.9	1850.4	1843.7	1839.3	1838.2	1829.2	1823.6
22.5°	1822.5	1806.9	1809.1	1796.8	1798.0	1791.3	1780.1	1775.6	1771.2	1761.1	1753.3
25°	1763.3	1747.7	1736.5	1728.7	1718.7	1717.6	1703.0	1691.9	1690.7	1678.5	1677.3
27.5°	1696.3	1678.5	1669.5	1650.5	1638.3	1628.2	1615.9	1604.8	1599.2	1585.8	1576.8
30°	1619.3	1599.2	1576.8	1563.4	1544.5	1536.6	1515.4	1502.0	1497.6	1483.0	1476.3
32.5°	1532.2	1511.0	1493.1	1467.4	1446.2	1435.0	1413.8	1400.4	1394.8	1379.2	1370.2
35°	1437.2	1413.8	1392.6	1368.0	1351.3	1332.3	1306.6	1293.2	1280.9	1275.3	1268.6
37.5°	1337.9	1312.2	1287.6	1263.0	1248.5	1226.2	1203.8	1194.9	1180.4	1174.8	1168.1
40°	1235.1	1209.4	1186.0	1162.5	1145.8	1125.7	1105.6	1102.2	1086.6	1081.0	1076.5
42.5°	1133.5	1106.7	1079.9	1063.1	1050.9	1030.8	1017.4	1014.0	1000.6	997.3	997.3
45°	1041.9	1008.4	986.1	971.6	961.5	944.8	933.6	931.4	920.2	918.0	918.0
47.5°	943.6	912.4	895.6	886.7	877.8	865.5	858.8	858.8	847.6	845.4	844.3
50°	852.1	823.0	810.8	801.8	800.7	791.8	786.2	784.0	784.0	776.1	777.3
52.5°	765.0	750.5	740.4	734.8	728.1	722.5	718.1	718.1	714.7	709.1	711.4
55°	684.6	667.8	668.9	664.5	661.1	657.8	658.9	652.2	651.1	646.6	649.9
57.5°	604.2	604.2	601.9	598.6	593.0	595.2	595.2	595.2	589.6	586.3	589.6
60°	536.0	539.4	533.8	537.2	534.9	536.0	533.8	533.8	530.5	529.3	530.5
62.5°	475.7	481.3	479.1	483.5	481.3	482.4	484.7	480.2	478.0	475.7	478.0
65°	422.1	428.8	427.7	431.1	432.2	433.3	434.4	432.2	429.9	427.7	426.6
67.5°	375.2	381.9	386.4	387.5	388.6	392.0	390.9	388.6	386.4	383.0	381.9
70°	332.8	341.7	347.3	349.5	354.0	351.8	351.8	350.7	348.4	345.1	344.0
72.5°	297.1	307.1	312.7	314.9	319.4	319.4	318.3	317.2	314.9	311.6	310.5
75°	265.8	274.7	282.5	287.0	290.4	290.4	289.2	288.1	285.9	283.7	282.5
77.5°	241.2	249.0	255.7	261.3	263.6	264.7	263.6	261.3	261.3	260.2	259.1
80°	216.6	225.6	232.3	237.9	241.2	241.2	240.1	241.2	239.0	237.9	236.7
82.5°	195.4	205.5	213.3	218.9	221.1	222.2	221.1	222.2	220.0	220.0	220.0
85°	176.4	186.5	195.4	199.9	203.2	204.4	204.4	204.4	203.2	203.2	203.2
87.5°	160.8	170.9	179.8	184.3	187.6	188.7	188.7	189.8	187.6	187.6	187.6
90°	146.3	156.3	165.3	169.7	173.1	175.3	175.3	176.4	175.3	174.2	174.2
92.5°	132.9	144.1	153.0	157.5	160.8	164.2	164.2	165.3	163.0	163.0	163.0
95°	121.7	132.9	140.7	146.3	149.6	151.9	153.0	153.0	151.9	151.9	151.9
97.5°	111.7	121.7	129.5	135.1	138.5	139.6	140.7	141.8	140.7	140.7	140.7
100°	101.6	111.7	119.5	124.0	128.4	129.5	130.7	131.8	131.8	130.7	130.7
102.5°	92.7	102.7	109.4	115.0	118.4	120.6	121.7	121.7	121.7	121.7	121.7
105°	83.8	93.8	100.5	106.1	109.4	111.7	112.8	113.9	113.9	112.8	112.8
107.5°	75.9	84.9	92.7	97.2	101.6	103.9	105.0	105.0	106.1	105.0	105.0
110°	68.1	78.2	84.9	89.3	93.8	96.0	97.2	98.3	98.3	98.3	98.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	62.5	70.4	77.1	81.5	86.0	88.2	89.3	90.5	91.6	90.5	90.5
115°	55.8	63.7	70.4	74.8	78.2	80.4	82.6	83.8	83.8	84.9	83.8
117.5°	50.3	57.0	63.7	68.1	71.5	74.8	75.9	77.1	78.2	77.1	77.1
120°	44.7	51.4	57.0	61.4	64.8	68.1	69.2	70.4	71.5	70.4	70.4
122.5°	40.2	45.8	51.4	55.8	59.2	61.4	63.7	63.7	64.8	64.8	64.8
125°	35.7	41.3	45.8	50.3	53.6	55.8	57.0	58.1	58.1	59.2	59.2
127.5°	31.3	35.7	41.3	44.7	48.0	50.3	51.4	52.5	52.5	53.6	53.6
130°	26.8	31.3	35.7	39.1	42.4	44.7	45.8	46.9	48.0	48.0	48.0
132.5°	23.5	27.9	31.3	34.6	36.9	39.1	41.3	42.4	42.4	42.4	42.4
135°	19.0	23.5	26.8	30.2	32.4	34.6	35.7	38.0	38.0	38.0	38.0
137.5°	15.6	20.1	23.5	25.7	27.9	30.2	31.3	32.4	33.5	33.5	33.5
140°	12.3	15.6	19.0	22.3	24.6	25.7	27.9	27.9	29.0	29.0	29.0
142.5°	8.9	12.3	14.5	17.9	20.1	22.3	23.5	24.6	24.6	24.6	24.6
145°	6.7	8.9	11.2	13.4	16.8	17.9	19.0	20.1	21.2	21.2	21.2
147.5°	4.5	6.7	7.8	10.1	12.3	14.5	15.6	16.8	17.9	17.9	17.9
150°	3.4	4.5	6.7	7.8	8.9	11.2	13.4	13.4	14.5	14.5	13.4
152.5°	2.2	3.4	4.5	5.6	6.7	7.8	10.1	10.1	11.2	11.2	11.2
155°	2.2	2.2	2.2	3.4	4.5	5.6	6.7	7.8	7.8	7.8	7.8
157.5°	2.2	2.2	2.2	2.2	2.2	3.4	4.5	5.6	5.6	5.6	5.6
160°	2.2	2.2	1.1	1.1	2.2	2.2	2.2	2.2	3.4	3.4	3.4
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	2028.0	2030.2	2030.2	2028.0	2026.9	2031.4	2025.8	2004.6	2011.3	2013.5	2020.2
5°	2018.0	2020.2	2020.2	2020.2	2018.0	2022.4	2016.8	1995.6	2003.4	2006.8	2011.3
7.5°	2003.4	2004.6	2006.8	2005.7	2003.4	2010.1	2004.6	1983.3	1988.9	1994.5	2000.1
10°	1984.5	1984.5	1985.6	1987.8	1985.6	1991.2	1985.6	1966.6	1972.2	1975.5	1982.2
12.5°	1958.8	1961.0	1962.1	1961.0	1959.9	1964.4	1962.1	1944.2	1946.5	1953.2	1959.9
15°	1924.1	1924.1	1929.7	1927.5	1927.5	1932.0	1934.2	1914.1	1917.4	1927.5	1934.2
17.5°	1881.7	1882.8	1887.3	1889.5	1888.4	1896.2	1897.3	1881.7	1880.6	1892.9	1899.6
20°	1827.0	1829.2	1834.8	1839.3	1839.3	1848.2	1851.6	1841.5	1842.6	1856.0	1858.3
22.5°	1760.0	1760.0	1770.0	1776.7	1782.3	1787.9	1798.0	1789.0	1789.0	1806.9	1816.9
25°	1677.3	1685.2	1688.5	1701.9	1709.7	1725.4	1734.3	1735.4	1736.5	1753.3	1760.0
27.5°	1585.8	1588.0	1598.1	1613.7	1622.6	1637.1	1653.9	1657.2	1662.8	1685.2	1695.2
30°	1481.9	1488.6	1493.1	1515.4	1527.7	1546.7	1567.9	1575.7	1580.2	1610.3	1622.6
32.5°	1375.8	1378.1	1397.0	1409.3	1423.8	1443.9	1468.5	1483.0	1492.0	1523.2	1541.1
35°	1269.7	1274.2	1289.8	1305.5	1320.0	1340.1	1365.8	1385.9	1401.5	1429.4	1452.9
37.5°	1172.6	1183.7	1187.1	1202.7	1213.9	1234.0	1251.9	1280.9	1296.5	1325.6	1355.7
40°	1085.5	1088.8	1091.1	1106.7	1114.5	1133.5	1159.2	1178.2	1199.4	1220.6	1256.3
42.5°	999.5	1001.7	1005.1	1014.0	1022.9	1036.3	1055.3	1074.3	1096.6	1127.9	1151.4
45°	920.2	922.4	924.7	930.2	938.1	950.3	962.6	976.0	998.4	1025.2	1049.7
47.5°	846.5	851.0	851.0	852.1	857.7	867.7	876.6	893.4	905.7	920.2	948.1
50°	776.1	779.5	780.6	780.6	784.0	790.7	792.9	804.1	815.2	828.6	848.7
52.5°	710.2	710.2	709.1	713.6	713.6	718.1	719.2	725.9	733.7	748.2	757.2
55°	647.7	647.7	651.1	648.8	648.8	651.1	649.9	651.1	657.8	666.7	674.5
57.5°	587.4	586.3	589.6	587.4	586.3	588.5	590.8	586.3	587.4	596.3	596.3
60°	527.1	528.2	531.6	529.3	529.3	529.3	527.1	524.9	522.6	528.2	530.5
62.5°	479.1	475.7	479.1	475.7	478.0	476.8	474.6	470.1	471.3	469.0	466.8
65°	428.8	428.8	429.9	426.6	428.8	428.8	425.5	424.4	417.7	415.4	409.8
67.5°	385.3	385.3	386.4	384.2	384.2	385.3	381.9	378.6	371.9	368.5	360.7
70°	347.3	347.3	347.3	346.2	346.2	346.2	344.0	339.5	332.8	327.2	317.2
72.5°	312.7	313.8	312.7	312.7	316.0	312.7	309.3	304.9	299.3	288.1	279.2
75°	284.8	285.9	284.8	284.8	284.8	283.7	282.5	275.8	269.1	260.2	246.8
77.5°	260.2	260.2	261.3	260.2	260.2	259.1	255.7	250.2	242.3	234.5	218.9
80°	236.7	237.9	239.0	240.1	237.9	236.7	233.4	228.9	218.9	209.9	194.3
82.5°	220.0	218.9	220.0	221.1	218.9	217.8	214.4	208.8	201.0	188.7	173.1
85°	203.2	202.1	202.1	203.2	202.1	199.9	196.5	191.0	183.1	170.9	155.2
87.5°	186.5	187.6	188.7	187.6	186.5	184.3	180.9	175.3	166.4	156.3	139.6
90°	174.2	174.2	174.2	174.2	173.1	170.9	167.5	160.8	153.0	140.7	126.2
92.5°	163.0	163.0	163.0	163.0	161.9	158.6	155.2	149.6	140.7	128.4	115.0
95°	151.9	153.0	151.9	151.9	149.6	148.5	142.9	137.4	129.5	117.3	102.7
97.5°	139.6	140.7	139.6	139.6	138.5	136.2	132.9	126.2	118.4	107.2	93.8
100°	130.7	130.7	129.5	129.5	128.4	126.2	121.7	116.1	108.3	97.2	83.8
102.5°	120.6	121.7	120.6	120.6	118.4	116.1	112.8	107.2	99.4	88.2	75.9
105°	112.8	112.8	111.7	111.7	109.4	107.2	103.9	97.2	90.5	80.4	68.1
107.5°	105.0	105.0	103.9	103.9	101.6	99.4	94.9	89.3	82.6	72.6	61.4
110°	97.2	97.2	97.2	96.0	93.8	90.5	87.1	81.5	74.8	65.9	54.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	91.6	90.5	89.3	88.2	86.0	83.8	79.3	73.7	67.0	59.2	49.1
115°	83.8	83.8	82.6	81.5	79.3	75.9	72.6	68.1	61.4	52.5	43.6
117.5°	77.1	77.1	75.9	74.8	72.6	69.2	65.9	61.4	54.7	46.9	39.1
120°	70.4	70.4	69.2	68.1	65.9	62.5	60.3	54.7	49.1	41.3	34.6
122.5°	64.8	63.7	63.7	61.4	60.3	57.0	53.6	49.1	43.6	36.9	30.2
125°	58.1	58.1	57.0	55.8	54.7	51.4	48.0	43.6	38.0	32.4	26.8
127.5°	52.5	52.5	51.4	50.3	49.1	45.8	42.4	39.1	33.5	27.9	22.3
130°	46.9	46.9	45.8	44.7	43.6	40.2	38.0	33.5	29.0	24.6	19.0
132.5°	42.4	42.4	41.3	40.2	38.0	35.7	33.5	29.0	25.7	21.2	16.8
135°	38.0	36.9	36.9	35.7	33.5	31.3	29.0	25.7	21.2	17.9	13.4
137.5°	33.5	32.4	31.3	30.2	29.0	26.8	24.6	22.3	19.0	14.5	11.2
140°	29.0	27.9	27.9	26.8	24.6	23.5	21.2	17.9	15.6	12.3	8.9
142.5°	24.6	24.6	23.5	22.3	21.2	20.1	17.9	15.6	12.3	10.1	6.7
145°	21.2	20.1	20.1	19.0	17.9	15.6	14.5	12.3	10.1	7.8	5.6
147.5°	16.8	16.8	16.8	15.6	14.5	13.4	12.3	10.1	7.8	5.6	3.4
150°	13.4	13.4	13.4	12.3	11.2	10.1	8.9	7.8	5.6	3.4	2.2
152.5°	11.2	11.2	10.1	10.1	8.9	7.8	6.7	5.6	3.4	2.2	2.2
155°	7.8	7.8	7.8	6.7	6.7	5.6	4.5	3.4	2.2	2.2	2.2
157.5°	5.6	5.6	5.6	4.5	4.5	3.4	3.4	2.2	2.2	2.2	2.2
160°	3.4	3.4	3.4	3.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2	2030.2
2.5°	2016.8	2015.7	2024.7	2024.7	2014.6	2030.2	2047.0
5°	2010.1	2009.0	2018.0	2018.0	2009.0	2024.7	2042.5
7.5°	1996.7	1997.9	2006.8	2009.0	1997.9	2012.4	2031.4
10°	1982.2	1981.1	1991.2	1993.4	1984.5	1997.9	2015.7
12.5°	1958.8	1958.8	1968.8	1972.2	1963.2	1978.9	1995.6
15°	1934.2	1934.2	1940.9	1946.5	1938.7	1953.2	1969.9
17.5°	1902.9	1901.8	1908.5	1915.2	1907.4	1923.0	1940.9
20°	1862.7	1862.7	1870.5	1878.4	1872.8	1887.3	1907.4
22.5°	1820.3	1815.8	1829.2	1834.8	1831.5	1846.0	1866.1
25°	1766.7	1765.6	1779.0	1786.8	1782.3	1798.0	1815.8
27.5°	1708.6	1707.5	1720.9	1731.0	1728.7	1743.2	1763.3
30°	1638.3	1643.8	1656.1	1672.9	1667.3	1682.9	1704.1
32.5°	1564.6	1570.1	1584.7	1602.5	1603.6	1615.9	1637.1
35°	1476.3	1490.9	1500.9	1524.4	1528.8	1541.1	1563.4
37.5°	1383.6	1400.4	1421.6	1439.5	1448.4	1458.5	1484.2
40°	1279.8	1304.4	1327.8	1349.0	1360.2	1370.2	1394.8
42.5°	1186.0	1205.0	1227.3	1248.5	1268.6	1277.6	1303.2
45°	1079.9	1102.2	1122.3	1148.0	1168.1	1178.2	1203.8
47.5°	976.0	998.4	1025.2	1043.0	1064.3	1074.3	1098.9
50°	876.6	896.7	919.1	940.3	958.2	967.1	988.3
52.5°	778.4	799.6	820.8	834.2	853.2	859.9	877.8
55°	691.3	705.8	724.8	732.6	751.6	756.0	768.3
57.5°	607.5	617.6	624.3	637.7	651.1	661.1	675.6
60°	531.6	536.0	540.5	548.3	559.5	562.8	568.4
62.5°	463.4	462.3	471.3	473.5	474.6	485.8	480.2
65°	403.1	404.3	396.4	393.1	397.6	400.9	398.7
67.5°	352.9	346.2	339.5	331.7	325.0	328.3	325.0
70°	303.8	298.2	287.0	275.8	271.4	264.7	261.3
72.5°	264.7	251.3	240.1	225.6	217.8	209.9	204.4
75°	234.5	215.5	199.9	184.3	173.1	161.9	159.7
77.5°	203.2	185.4	167.5	150.8	134.0	121.7	117.3
80°	178.7	161.9	140.7	120.6	102.7	87.1	81.5
82.5°	156.3	138.5	117.3	96.0	75.9	59.2	52.5
85°	137.4	118.4	97.2	75.9	55.8	38.0	29.0
87.5°	122.8	101.6	80.4	60.3	39.1	21.2	11.2
90°	109.4	89.3	69.2	48.0	27.9	11.2	0.0
92.5°	97.2	78.2	58.1	39.1	21.2	6.7	1.1
95°	86.0	69.2	49.1	31.3	15.6	4.5	1.1
97.5°	77.1	60.3	42.4	25.7	12.3	3.4	1.1
100°	69.2	52.5	36.9	21.2	10.1	2.2	1.1
102.5°	61.4	46.9	31.3	17.9	7.8	1.1	1.1
105°	54.7	41.3	26.8	15.6	6.7	1.1	1.1
107.5°	49.1	36.9	23.5	13.4	4.5	1.1	1.1
110°	43.6	31.3	20.1	11.2	3.4	1.1	1.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	39.1	27.9	17.9	8.9	2.2	1.1	1.1
115°	34.6	24.6	15.6	7.8	2.2	1.1	1.1
117.5°	30.2	21.2	13.4	5.6	1.1	1.1	1.1
120°	26.8	19.0	11.2	4.5	1.1	1.1	1.1
122.5°	23.5	15.6	8.9	3.4	1.1	1.1	1.1
125°	20.1	13.4	7.8	2.2	1.1	1.1	1.1
127.5°	16.8	11.2	5.6	2.2	1.1	1.1	1.1
130°	14.5	8.9	4.5	1.1	1.1	1.1	1.1
132.5°	12.3	6.7	3.4	1.1	1.1	1.1	1.1
135°	10.1	5.6	2.2	1.1	1.1	1.1	1.1
137.5°	7.8	4.5	2.2	1.1	1.1	1.1	1.1
140°	5.6	3.4	1.1	1.1	1.1	1.1	1.1
142.5°	4.5	2.2	1.1	1.1	1.1	1.1	1.1
145°	3.4	2.2	1.1	1.1	1.1	1.1	1.1
147.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1
150°	2.2	2.2	1.1	1.1	2.2	1.1	1.1
152.5°	2.2	1.1	1.1	1.1	2.2	1.1	1.1
155°	2.2	2.2	2.2	2.2	2.2	2.2	1.1
157.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
160°	2.2	2.2	2.2	2.2	2.2	2.2	2.2
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)