

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-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 (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-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

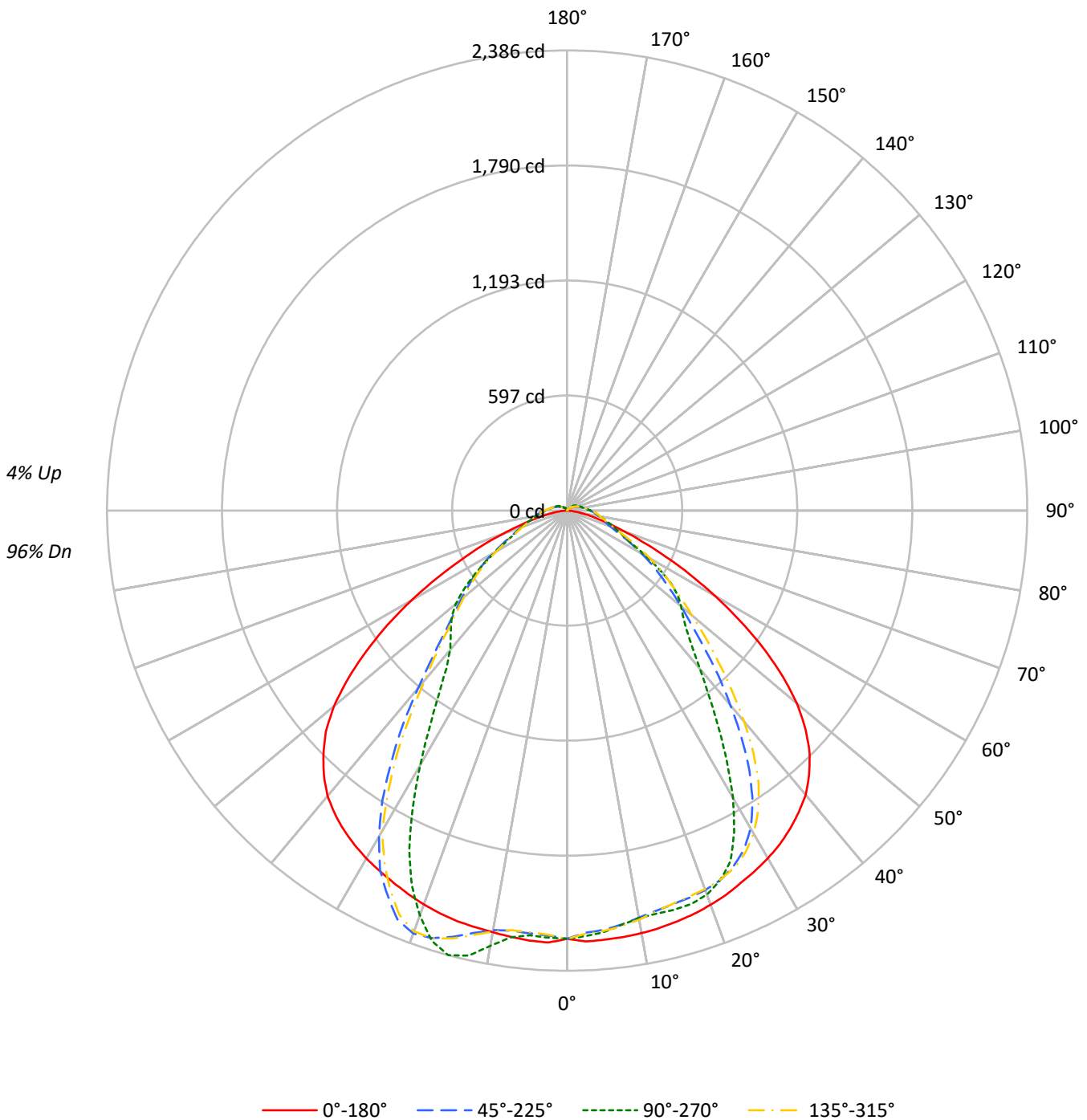
Lumens per Lamp: N/A
Luminaire Lumens: 5292.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-60SL-LC-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	8970	8970	8970	8970
5°	9047	8614	9066	8681
10°	9101	8255	9083	8816
15°	9185	8145	9180	9069
20°	9300	8016	9290	8450
25°	9429	7604	9424	7348
30°	9623	6591	9628	5839
35°	9830	5330	9857	4510
40°	10017	4291	10059	3780
45°	10006	3635	10057	3539
50°	9602	3346	9737	3272
55°	8549	3008	8762	2734
60°	6965	2302	7335	2111
65°	5208	1761	5611	1670
70°	3572	1520	4027	1454
75°	2368	1372	2757	1297
80°	1569	1279	1838	1176
85°	857	1276	1129	1165



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	4.0
10°-20°	627.4	11.9
20°-30°	953.8	18.0
30°-40°	1023.2	19.3
40°-50°	888.0	16.8
50°-60°	658.1	12.4
60°-70°	377.1	7.1
70°-80°	208.8	3.9
80°-90°	127.1	2.4
90°-100°	82.7	1.6
100°-110°	55.4	1.0
110°-120°	37.4	0.7
120°-130°	22.9	0.4
130°-140°	12.1	0.2
140°-150°	5.5	0.1
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1792.0	33.9
0°-40°	2815.2	53.2
0°-60°	4361.4	82.4
0°-90°	5074.4	95.9
90°-120°	175.5	3.3
90°-150°	216.0	4.1
90°-180°	218.0	4.1
0°-180°	5292.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2220	2220	2220	2220	2220	
5°	2234	2194	2238	2211	2234	213
15°	2205	2143	2204	2386	2205	624
25°	2130	2004	2129	1937	2130	985
35°	2015	1364	2020	1155	2015	1261
45°	1778	875	1788	852	1778	1362
55°	1241	656	1272	596	1241	1100
65°	563	332	607	315	563	568
75°	160	211	187	200	160	183
85°	22	146	29	133	22	29
90°	0	122	2	112	0	1
95°	1	100	0	95	1	1
105°	1	74	1	71	1	1
115°	1	61	1	55	1	1
125°	1	46	1	38	1	1
135°	1	29	1	24	1	1
145°	1	17	2	14	1	1
155°	2	8	2	7	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#

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9
2.5°	2235.9	2230.2	2227.9	2223.3	2226.7	2240.5	2231.3	2216.4	2217.6	2191.2	2205.0
5°	2233.6	2226.7	2223.3	2218.7	2221.0	2233.6	2224.4	2209.5	2208.4	2182.0	2194.6
7.5°	2230.2	2223.3	2217.6	2214.1	2215.3	2225.6	2214.1	2196.9	2193.5	2164.8	2176.3
10°	2224.4	2219.9	2211.8	2206.1	2205.0	2216.4	2198.1	2180.9	2172.8	2143.0	2154.5
12.5°	2216.4	2209.5	2201.5	2191.2	2190.0	2196.9	2182.0	2157.9	2149.9	2125.8	2138.4
15°	2205.0	2196.9	2187.8	2176.3	2170.6	2175.1	2156.8	2135.0	2133.9	2113.2	2130.4
17.5°	2192.3	2180.9	2170.6	2154.5	2146.5	2149.9	2135.0	2115.5	2117.8	2105.2	2124.7
20°	2175.1	2162.5	2146.5	2130.4	2119.0	2124.7	2114.4	2099.5	2102.9	2093.7	2110.9
22.5°	2155.6	2138.4	2119.0	2100.6	2091.4	2099.5	2091.4	2078.8	2080.0	2074.2	2084.6
25°	2130.4	2110.9	2088.0	2065.1	2060.5	2066.2	2061.6	2051.3	2046.7	2037.5	2042.1
27.5°	2107.5	2085.7	2057.0	2033.0	2024.9	2036.4	2026.1	2008.9	1996.3	1983.7	1974.5
30°	2081.1	2054.7	2022.6	1995.1	1988.2	1992.8	1977.9	1951.6	1918.3	1902.2	1877.0
32.5°	2052.5	2018.1	1977.9	1947.0	1942.4	1938.9	1911.4	1873.6	1822.0	1789.9	1750.9
35°	2014.6	1976.8	1928.6	1890.8	1883.9	1864.4	1819.7	1769.2	1702.7	1647.7	1581.2
37.5°	1972.2	1927.5	1877.0	1826.6	1807.1	1768.1	1705.0	1652.3	1551.4	1484.9	1404.6
40°	1924.0	1870.1	1808.2	1747.5	1715.3	1652.3	1580.0	1502.1	1404.6	1315.2	1247.5
42.5°	1857.5	1800.2	1726.8	1659.2	1604.1	1520.4	1435.6	1325.5	1236.1	1160.4	1091.6
45°	1778.4	1709.6	1624.8	1543.4	1473.4	1373.7	1273.9	1163.8	1089.3	1001.0	954.0
47.5°	1676.4	1601.8	1511.2	1420.7	1328.9	1218.9	1114.5	1009.0	934.5	871.4	837.0
50°	1556.0	1487.2	1387.4	1279.6	1178.7	1064.1	959.7	880.6	808.4	769.4	743.0
52.5°	1406.9	1342.7	1240.6	1123.7	1026.2	913.9	818.7	754.5	702.9	674.2	665.0
55°	1240.6	1184.5	1083.6	974.6	874.9	771.7	699.4	643.3	610.0	592.8	594.0
57.5°	1062.9	1019.3	924.2	826.7	732.7	654.7	589.4	544.6	519.4	518.3	521.7
60°	885.2	853.1	770.5	686.8	604.3	541.2	493.0	462.1	446.0	447.2	446.0
62.5°	715.5	685.7	626.1	557.3	491.9	449.5	405.9	393.3	379.5	378.4	378.4
65°	563.0	540.1	491.9	442.6	393.3	365.8	344.0	329.1	318.8	316.5	317.6
67.5°	423.1	413.9	380.7	347.4	316.5	299.3	280.9	277.5	269.5	269.5	271.7
70°	315.3	308.4	290.1	270.6	258.0	246.5	237.4	237.4	236.2	235.1	240.8
72.5°	228.2	229.3	223.6	208.7	207.5	205.2	203.0	206.4	207.5	211.0	217.9
75°	160.5	164.0	164.0	161.7	166.3	172.0	175.4	181.2	188.0	192.6	200.7
77.5°	113.5	113.5	119.2	126.1	135.3	145.6	154.8	162.8	172.0	177.7	184.6
80°	73.4	76.8	86.0	98.6	111.2	125.0	137.6	147.9	157.1	166.3	170.8
82.5°	43.6	49.3	60.8	76.8	92.9	110.1	122.7	135.3	145.6	154.8	158.2
85°	21.8	29.8	43.6	60.8	78.0	96.3	112.4	123.8	135.3	143.3	147.9
87.5°	6.9	16.1	31.0	47.0	65.4	83.7	100.9	113.5	123.8	130.7	135.3
90°	0.0	8.0	21.8	39.0	56.2	74.5	90.6	104.3	114.7	120.4	123.8
92.5°	0.0	4.6	17.2	32.1	48.2	66.5	82.6	95.2	104.3	110.1	112.4
95°	1.1	3.4	12.6	26.4	42.4	59.6	74.5	86.0	95.2	100.9	102.0
97.5°	1.1	2.3	10.3	21.8	36.7	52.7	67.7	79.1	86.0	91.7	92.9
100°	1.1	2.3	8.0	19.5	32.1	47.0	60.8	71.1	79.1	83.7	84.9
102.5°	1.1	1.1	6.9	16.1	28.7	41.3	53.9	64.2	71.1	75.7	78.0
105°	1.1	1.1	5.7	13.8	25.2	36.7	48.2	58.5	64.2	68.8	71.1
107.5°	1.1	1.1	4.6	11.5	21.8	32.1	43.6	51.6	58.5	63.1	65.4
110°	1.1	1.1	3.4	10.3	18.3	28.7	37.8	45.9	52.7	57.3	59.6



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	1.1	3.4	9.2	16.1	25.2	33.3	41.3	47.0	51.6	55.0
115°	1.1	1.1	3.4	8.0	14.9	21.8	29.8	36.7	42.4	47.0	50.5
117.5°	1.1	1.1	3.4	6.9	12.6	19.5	26.4	33.3	37.8	42.4	45.9
120°	1.1	1.1	2.3	5.7	11.5	17.2	22.9	28.7	34.4	39.0	42.4
122.5°	1.1	1.1	2.3	5.7	9.2	14.9	20.6	25.2	31.0	34.4	37.8
125°	1.1	1.1	2.3	4.6	8.0	13.8	18.3	22.9	26.4	31.0	34.4
127.5°	1.1	1.1	2.3	4.6	6.9	11.5	16.1	20.6	24.1	27.5	29.8
130°	1.1	1.1	2.3	3.4	5.7	9.2	13.8	17.2	21.8	24.1	26.4
132.5°	1.1	1.1	1.1	3.4	4.6	6.9	10.3	14.9	18.3	21.8	22.9
135°	1.1	1.1	1.1	2.3	4.6	5.7	8.0	11.5	14.9	18.3	20.6
137.5°	1.1	1.1	1.1	2.3	3.4	5.7	6.9	9.2	12.6	14.9	18.3
140°	1.1	1.1	1.1	2.3	3.4	4.6	5.7	8.0	10.3	12.6	14.9
142.5°	1.1	1.1	1.1	2.3	2.3	3.4	4.6	6.9	8.0	10.3	12.6
145°	1.1	1.1	1.1	2.3	2.3	3.4	4.6	5.7	6.9	8.0	10.3
147.5°	1.1	1.1	1.1	2.3	2.3	2.3	3.4	4.6	5.7	6.9	8.0
150°	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	4.6	5.7	6.9
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	3.4	4.6	5.7
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	4.6	4.6
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9
2.5°	2200.4	2202.7	2216.4	2215.3	2213.0	2210.7	2210.7	2208.4	2210.7	2216.4	2214.1
5°	2188.9	2192.3	2202.7	2201.5	2199.2	2198.1	2196.9	2193.5	2195.8	2203.8	2201.5
7.5°	2168.3	2171.7	2180.9	2176.3	2172.8	2175.1	2169.4	2166.0	2170.6	2178.6	2177.4
10°	2146.5	2148.8	2160.2	2157.9	2152.2	2153.4	2147.6	2145.3	2151.1	2155.6	2156.8
12.5°	2131.6	2139.6	2149.9	2148.8	2147.6	2148.8	2143.0	2140.7	2144.2	2148.8	2147.6
15°	2128.1	2138.4	2149.9	2149.9	2151.1	2152.2	2146.5	2143.0	2146.5	2149.9	2148.8
17.5°	2124.7	2137.3	2147.6	2146.5	2147.6	2149.9	2140.7	2138.4	2143.0	2147.6	2145.3
20°	2113.2	2124.7	2131.6	2129.3	2129.3	2130.4	2119.0	2119.0	2125.8	2129.3	2130.4
22.5°	2081.1	2094.9	2094.9	2089.1	2089.1	2084.6	2081.1	2074.2	2082.3	2088.0	2092.6
25°	2033.0	2038.7	2031.8	2019.2	2012.3	2006.6	1990.5	2004.3	2004.3	2021.5	2027.2
27.5°	1965.3	1952.7	1933.2	1906.8	1901.1	1882.8	1872.4	1875.9	1881.6	1905.7	1924.0
30°	1854.1	1816.2	1783.0	1771.5	1746.3	1728.0	1709.6	1718.8	1729.1	1742.9	1780.7
32.5°	1707.3	1670.6	1616.7	1597.2	1570.9	1547.9	1526.2	1539.9	1558.3	1567.4	1608.7
35°	1538.8	1495.2	1445.9	1412.6	1385.1	1372.5	1345.0	1364.5	1384.0	1390.9	1426.4
37.5°	1359.9	1315.2	1271.6	1242.9	1216.6	1208.5	1190.2	1204.0	1218.9	1229.2	1259.0
40°	1190.2	1148.9	1115.7	1096.2	1077.8	1070.9	1064.1	1069.8	1081.3	1089.3	1112.2
42.5°	1044.6	1011.3	988.4	976.9	964.3	955.1	956.3	958.6	964.3	981.5	991.8
45°	917.3	897.8	882.9	880.6	872.6	871.4	870.3	874.9	878.3	888.6	896.7
47.5°	815.2	807.2	803.8	808.4	811.8	807.2	809.5	815.2	822.1	822.1	821.0
50°	735.0	737.3	741.9	752.2	759.1	761.4	763.7	770.5	771.7	774.0	770.5
52.5°	669.6	671.9	684.5	700.6	708.6	712.1	716.6	723.5	723.5	725.8	721.2
55°	603.1	606.6	619.2	635.2	642.1	646.7	651.3	655.9	659.3	663.9	660.5
57.5°	529.7	540.1	548.1	552.7	557.3	560.7	564.1	565.3	572.2	573.3	579.0
60°	451.8	454.1	462.1	460.9	457.5	466.7	462.1	470.1	478.1	488.5	489.6
62.5°	377.2	378.4	384.1	381.8	386.4	385.3	388.7	388.7	394.4	399.0	404.8
65°	318.8	319.9	324.5	324.5	323.3	326.8	330.2	332.5	332.5	336.0	340.5
67.5°	275.2	278.6	283.2	285.5	287.8	287.8	291.2	292.4	294.7	295.8	298.1
70°	245.4	250.0	254.6	256.8	258.0	260.3	261.4	261.4	263.7	264.9	267.2
72.5°	223.6	228.2	231.6	231.6	233.9	235.1	235.1	236.2	237.4	239.6	241.9
75°	205.2	208.7	211.0	209.8	209.8	209.8	211.0	211.0	213.3	215.6	217.9
77.5°	188.0	191.5	191.5	189.2	189.2	189.2	189.2	190.3	191.5	193.8	196.1
80°	175.4	175.4	174.3	174.3	172.0	170.8	170.8	172.0	172.0	174.3	177.7
82.5°	161.7	161.7	160.5	159.4	158.2	157.1	157.1	158.2	159.4	160.5	162.8
85°	149.1	149.1	146.8	146.8	145.6	145.6	145.6	145.6	146.8	147.9	150.2
87.5°	136.4	135.3	134.2	133.0	133.0	133.0	133.0	133.0	134.2	136.4	137.6
90°	123.8	122.7	121.5	121.5	120.4	120.4	121.5	121.5	122.7	123.8	125.0
92.5°	112.4	111.2	110.1	110.1	108.9	108.9	110.1	108.9	111.2	111.2	112.4
95°	102.0	100.9	99.8	99.8	99.8	99.8	99.8	99.8	100.9	100.9	102.0
97.5°	92.9	91.7	90.6	90.6	91.7	90.6	91.7	91.7	91.7	92.9	94.0
100°	84.9	83.7	83.7	84.9	83.7	83.7	84.9	84.9	84.9	84.9	86.0
102.5°	78.0	78.0	78.0	78.0	78.0	78.0	79.1	79.1	79.1	79.1	80.3
105°	71.1	72.2	72.2	72.2	73.4	73.4	73.4	74.5	74.5	74.5	74.5
107.5°	66.5	67.7	67.7	68.8	68.8	69.9	69.9	69.9	69.9	71.1	71.1
110°	61.9	63.1	64.2	65.4	65.4	66.5	66.5	66.5	66.5	66.5	66.5



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	57.3	58.5	59.6	61.9	63.1	63.1	63.1	63.1	64.2	64.2	63.1
115°	52.7	55.0	56.2	58.5	59.6	59.6	60.8	60.8	60.8	60.8	59.6
117.5°	48.2	51.6	52.7	55.0	56.2	56.2	57.3	57.3	57.3	57.3	56.2
120°	44.7	47.0	49.3	50.5	51.6	52.7	52.7	53.9	53.9	53.9	52.7
122.5°	41.3	43.6	45.9	47.0	48.2	49.3	49.3	49.3	49.3	49.3	49.3
125°	36.7	39.0	41.3	42.4	43.6	44.7	44.7	45.9	45.9	45.9	44.7
127.5°	33.3	35.5	36.7	39.0	40.1	40.1	41.3	41.3	41.3	41.3	40.1
130°	28.7	31.0	33.3	34.4	35.5	35.5	36.7	36.7	36.7	36.7	36.7
132.5°	25.2	27.5	28.7	31.0	31.0	32.1	32.1	33.3	33.3	33.3	32.1
135°	22.9	24.1	25.2	27.5	27.5	28.7	28.7	28.7	28.7	28.7	28.7
137.5°	20.6	21.8	22.9	24.1	24.1	25.2	25.2	25.2	25.2	26.4	25.2
140°	17.2	19.5	20.6	20.6	21.8	21.8	21.8	22.9	22.9	22.9	21.8
142.5°	14.9	16.1	17.2	18.3	19.5	19.5	19.5	19.5	20.6	19.5	19.5
145°	11.5	13.8	14.9	16.1	17.2	17.2	17.2	17.2	17.2	17.2	17.2
147.5°	9.2	10.3	12.6	13.8	13.8	14.9	14.9	14.9	14.9	14.9	14.9
150°	8.0	8.0	10.3	11.5	12.6	12.6	12.6	12.6	12.6	12.6	12.6
152.5°	5.7	6.9	8.0	9.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
155°	5.7	5.7	6.9	6.9	8.0	8.0	8.0	8.0	9.2	8.0	8.0
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9
2.5°	2210.7	2209.5	2214.1	2209.5	2186.6	2195.8	2192.3	2205.0	2206.1	2209.5	2221.0
5°	2199.2	2199.2	2205.0	2200.4	2178.6	2187.8	2186.6	2199.2	2201.5	2203.8	2216.4
7.5°	2176.3	2177.4	2185.5	2182.0	2159.1	2172.8	2171.7	2186.6	2191.2	2195.8	2207.2
10°	2154.5	2153.4	2162.5	2159.1	2137.3	2153.4	2152.2	2167.1	2174.0	2182.0	2195.8
12.5°	2143.0	2139.6	2143.0	2139.6	2115.5	2128.1	2129.3	2146.5	2154.5	2164.8	2180.9
15°	2143.0	2137.3	2137.3	2130.4	2102.9	2110.9	2112.1	2123.5	2133.9	2144.2	2163.7
17.5°	2140.7	2135.0	2133.9	2128.1	2098.3	2098.3	2097.2	2105.2	2110.9	2121.3	2141.9
20°	2128.1	2125.8	2124.7	2121.3	2093.7	2089.1	2086.9	2086.9	2090.3	2093.7	2114.4
22.5°	2094.9	2097.2	2099.5	2101.8	2080.0	2071.9	2073.1	2070.8	2067.4	2067.4	2084.6
25°	2033.0	2044.4	2053.6	2063.9	2051.3	2045.6	2052.5	2049.0	2043.3	2038.7	2053.6
27.5°	1934.4	1958.4	1977.9	2003.1	2004.3	1999.7	2018.1	2015.8	2014.6	2007.7	2019.2
30°	1797.9	1835.7	1862.1	1898.8	1929.8	1934.4	1965.3	1969.9	1974.5	1971.0	1982.5
32.5°	1632.8	1684.4	1729.1	1786.4	1816.2	1842.6	1886.2	1904.5	1922.9	1928.6	1941.2
35°	1452.8	1511.2	1564.0	1627.1	1674.1	1731.4	1784.1	1811.7	1852.9	1869.0	1887.3
37.5°	1281.9	1337.0	1388.6	1451.6	1527.3	1586.9	1652.3	1714.2	1770.4	1793.3	1820.8
40°	1130.6	1175.3	1224.6	1279.6	1348.4	1426.4	1497.5	1583.5	1650.0	1695.9	1736.0
42.5°	1015.9	1037.7	1080.1	1129.4	1184.5	1263.6	1335.8	1432.1	1512.4	1577.8	1644.3
45°	913.9	924.2	955.1	981.5	1037.7	1107.6	1184.5	1278.5	1362.2	1445.9	1526.2
47.5°	826.7	839.3	854.2	870.3	910.4	968.9	1035.4	1120.2	1204.0	1301.4	1393.1
50°	768.2	771.7	774.0	780.8	804.9	845.1	899.0	971.2	1051.5	1155.8	1253.3
52.5°	716.6	716.6	709.8	706.3	715.5	740.7	771.7	823.3	905.8	1002.1	1105.3
55°	661.6	651.3	649.0	637.5	639.8	651.3	666.2	706.3	774.0	856.5	956.3
57.5°	584.8	580.2	580.2	575.6	566.4	572.2	575.6	604.3	652.4	723.5	810.7
60°	496.5	494.2	499.9	501.1	493.0	496.5	495.3	512.5	546.9	604.3	676.5
62.5°	408.2	418.5	419.7	424.3	419.7	418.5	424.3	439.2	456.4	499.9	556.1
65°	342.8	348.6	349.7	355.5	353.2	353.2	357.7	369.2	379.5	409.3	452.9
67.5°	300.4	298.1	299.3	302.7	299.3	298.1	301.6	308.4	316.5	334.8	365.8
70°	267.2	264.9	264.9	264.9	260.3	256.8	258.0	260.3	263.7	274.0	293.5
72.5°	241.9	241.9	238.5	235.1	231.6	229.3	227.0	224.7	223.6	227.0	237.4
75°	219.0	220.2	219.0	215.6	211.0	206.4	201.8	197.2	191.5	189.2	190.3
77.5°	198.4	199.5	200.7	199.5	194.9	189.2	182.3	175.4	167.4	159.4	154.8
80°	180.0	182.3	183.5	182.3	178.9	174.3	166.3	158.2	146.8	136.4	125.0
82.5°	164.0	167.4	168.6	168.6	166.3	161.7	152.5	143.3	130.7	117.0	102.0
85°	151.4	153.6	155.9	155.9	154.8	150.2	141.0	130.7	118.1	102.0	86.0
87.5°	138.7	139.9	142.2	144.5	142.2	137.6	129.6	118.1	105.5	89.4	71.1
90°	126.1	127.3	129.6	131.9	130.7	126.1	119.2	108.9	95.2	78.0	59.6
92.5°	113.5	115.8	117.0	118.1	119.2	115.8	110.1	99.8	86.0	68.8	51.6
95°	104.3	104.3	106.6	107.8	108.9	105.5	100.9	90.6	78.0	61.9	44.7
97.5°	95.2	95.2	97.5	97.5	98.6	96.3	91.7	82.6	69.9	55.0	37.8
100°	86.0	87.1	88.3	89.4	89.4	88.3	83.7	74.5	63.1	49.3	33.3
102.5°	80.3	80.3	81.4	81.4	82.6	80.3	75.7	67.7	56.2	43.6	28.7
105°	74.5	74.5	75.7	75.7	74.5	72.2	67.7	60.8	50.5	37.8	25.2
107.5°	69.9	69.9	69.9	69.9	68.8	66.5	61.9	53.9	44.7	34.4	22.9
110°	66.5	65.4	65.4	64.2	63.1	59.6	55.0	48.2	40.1	29.8	19.5



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	63.1	61.9	60.8	59.6	57.3	53.9	49.3	43.6	35.5	26.4	17.2
115°	59.6	58.5	57.3	55.0	52.7	49.3	44.7	39.0	31.0	22.9	14.9
117.5°	56.2	55.0	52.7	50.5	48.2	44.7	40.1	34.4	27.5	20.6	13.8
120°	51.6	50.5	49.3	47.0	44.7	40.1	35.5	31.0	24.1	18.3	11.5
122.5°	48.2	47.0	44.7	43.6	40.1	36.7	32.1	27.5	21.8	16.1	10.3
125°	43.6	42.4	41.3	39.0	36.7	32.1	28.7	24.1	19.5	13.8	8.0
127.5°	40.1	39.0	36.7	34.4	32.1	28.7	25.2	21.8	17.2	11.5	8.0
130°	35.5	34.4	33.3	31.0	28.7	25.2	22.9	18.3	14.9	10.3	6.9
132.5°	31.0	31.0	29.8	27.5	25.2	22.9	19.5	16.1	12.6	9.2	5.7
135°	28.7	27.5	26.4	24.1	22.9	19.5	17.2	13.8	10.3	8.0	4.6
137.5°	25.2	24.1	22.9	21.8	19.5	17.2	14.9	11.5	9.2	6.9	4.6
140°	21.8	20.6	20.6	18.3	17.2	14.9	12.6	10.3	8.0	5.7	3.4
142.5°	19.5	18.3	17.2	16.1	14.9	12.6	10.3	8.0	6.9	4.6	3.4
145°	17.2	16.1	14.9	13.8	12.6	10.3	9.2	6.9	5.7	4.6	3.4
147.5°	13.8	13.8	12.6	11.5	10.3	9.2	8.0	6.9	4.6	3.4	2.3
150°	11.5	11.5	10.3	9.2	9.2	8.0	6.9	5.7	4.6	3.4	2.3
152.5°	10.3	9.2	9.2	8.0	8.0	6.9	5.7	4.6	3.4	3.4	2.3
155°	8.0	8.0	8.0	6.9	6.9	5.7	4.6	4.6	3.4	2.3	2.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9
2.5°	2223.3	2209.5	2221.0	2241.6	2239.4	2237.1	2234.8	2239.4	2254.3	2246.2	2233.6
5°	2219.9	2206.1	2218.7	2238.2	2237.1	2233.6	2231.3	2235.9	2250.8	2242.8	2229.0
7.5°	2213.0	2200.4	2209.5	2229.0	2229.0	2226.7	2224.4	2229.0	2242.8	2235.9	2222.2
10°	2201.5	2192.3	2201.5	2219.9	2221.0	2216.4	2214.1	2219.9	2233.6	2230.2	2218.7
12.5°	2192.3	2183.2	2193.5	2211.8	2213.0	2208.4	2205.0	2211.8	2230.2	2232.5	2229.0
15°	2179.7	2171.7	2184.3	2203.8	2203.8	2200.4	2200.4	2209.5	2234.8	2245.1	2250.8
17.5°	2161.4	2155.6	2170.6	2190.0	2191.2	2188.9	2190.0	2208.4	2241.6	2266.9	2282.9
20°	2138.4	2136.2	2152.2	2172.8	2176.3	2177.4	2183.2	2210.7	2256.6	2291.0	2307.0
22.5°	2110.9	2112.1	2130.4	2152.2	2156.8	2160.2	2171.7	2210.7	2268.0	2304.7	2311.6
25°	2080.0	2083.4	2102.9	2129.3	2135.0	2141.9	2161.4	2211.8	2271.5	2295.5	2284.1
27.5°	2046.7	2053.6	2078.8	2106.3	2113.2	2124.7	2149.9	2205.0	2255.4	2256.6	2214.1
30°	2012.3	2020.3	2050.2	2082.3	2093.7	2105.2	2136.2	2188.9	2216.4	2179.7	2105.2
32.5°	1973.3	1984.8	2014.6	2053.6	2067.4	2082.3	2113.2	2157.9	2147.6	2068.5	1961.9
35°	1924.0	1940.1	1974.5	2020.3	2033.0	2052.5	2074.2	2084.6	2038.7	1926.3	1805.9
37.5°	1863.3	1887.3	1927.5	1980.2	1994.0	2006.6	2012.3	1983.7	1891.9	1770.4	1645.4
40°	1793.3	1830.0	1873.6	1932.1	1945.8	1945.8	1925.2	1864.4	1748.6	1589.2	1450.5
42.5°	1708.5	1753.2	1808.2	1866.7	1880.5	1864.4	1815.1	1708.5	1576.6	1398.9	1252.1
45°	1605.3	1664.9	1726.8	1787.6	1794.5	1758.9	1670.6	1535.3	1372.5	1207.4	1067.5
47.5°	1482.6	1560.6	1628.2	1697.0	1687.8	1628.2	1510.1	1356.5	1184.5	1028.5	916.2
50°	1345.0	1436.7	1512.4	1577.8	1558.3	1475.7	1337.0	1176.4	1005.6	872.6	779.7
52.5°	1198.2	1303.7	1379.4	1432.1	1405.8	1307.1	1154.6	1001.0	861.1	739.6	677.7
55°	1045.7	1152.4	1230.3	1271.6	1237.2	1130.6	980.4	840.5	708.6	629.5	592.8
57.5°	897.8	997.6	1070.9	1104.2	1060.6	954.0	815.2	697.1	602.0	535.5	517.1
60°	755.6	837.0	907.0	932.2	885.2	786.6	667.3	573.3	503.4	457.5	448.3
62.5°	623.8	690.3	745.3	764.8	718.9	642.1	538.9	469.0	419.7	396.7	385.3
65°	514.8	553.8	610.0	606.6	579.0	508.0	432.3	383.0	350.9	336.0	329.1
67.5°	404.8	440.3	475.8	480.4	446.0	396.7	347.4	311.9	294.7	286.7	283.2
70°	313.0	339.4	361.2	355.5	337.1	306.1	275.2	255.7	248.8	245.4	245.4
72.5°	243.1	256.8	267.2	260.3	248.8	232.8	217.9	209.8	211.0	213.3	215.6
75°	188.0	191.5	193.8	186.9	184.6	174.3	173.1	174.3	181.2	188.0	191.5
77.5°	144.5	139.9	136.4	129.6	130.7	129.6	135.3	144.5	154.8	165.1	174.3
80°	111.2	100.9	92.9	86.0	89.4	95.2	106.6	120.4	134.2	145.6	157.1
82.5°	86.0	71.1	59.6	52.7	59.6	68.8	83.7	100.9	117.0	129.6	142.2
85°	66.5	49.3	35.5	28.7	35.5	49.3	65.4	84.9	102.0	115.8	128.4
87.5°	51.6	35.5	19.5	11.5	19.5	34.4	52.7	71.1	88.3	104.3	117.0
90°	41.3	24.1	9.2	2.3	10.3	24.1	41.3	59.6	76.8	94.0	106.6
92.5°	33.3	17.2	4.6	0.0	5.7	18.3	34.4	51.6	68.8	84.9	97.5
95°	27.5	13.8	3.4	0.0	4.6	13.8	27.5	44.7	60.8	76.8	87.1
97.5°	22.9	10.3	2.3	0.0	2.3	11.5	22.9	37.8	53.9	68.8	79.1
100°	19.5	9.2	2.3	0.0	2.3	9.2	19.5	33.3	47.0	60.8	71.1
102.5°	16.1	6.9	1.1	1.1	1.1	6.9	17.2	28.7	41.3	53.9	64.2
105°	14.9	5.7	1.1	1.1	1.1	5.7	14.9	25.2	36.7	48.2	57.3
107.5°	12.6	4.6	1.1	1.1	1.1	4.6	12.6	21.8	33.3	43.6	51.6
110°	10.3	4.6	1.1	1.1	1.1	4.6	10.3	19.5	28.7	37.8	45.9



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.2	3.4	1.1	1.1	1.1	3.4	9.2	17.2	25.2	34.4	41.3
115°	8.0	3.4	1.1	1.1	1.1	3.4	8.0	14.9	21.8	29.8	36.7
117.5°	6.9	3.4	1.1	1.1	1.1	2.3	6.9	12.6	19.5	26.4	33.3
120°	5.7	2.3	1.1	1.1	1.1	2.3	5.7	11.5	17.2	22.9	28.7
122.5°	5.7	2.3	1.1	1.1	1.1	2.3	4.6	9.2	14.9	19.5	25.2
125°	4.6	2.3	1.1	1.1	1.1	1.1	4.6	8.0	12.6	17.2	21.8
127.5°	4.6	2.3	1.1	1.1	1.1	1.1	3.4	6.9	10.3	14.9	19.5
130°	3.4	2.3	1.1	1.1	1.1	1.1	2.3	5.7	9.2	12.6	16.1
132.5°	3.4	2.3	1.1	1.1	1.1	1.1	2.3	4.6	6.9	10.3	13.8
135°	3.4	1.1	1.1	1.1	1.1	1.1	1.1	3.4	5.7	8.0	10.3
137.5°	2.3	1.1	1.1	1.1	1.1	1.1	1.1	2.3	4.6	5.7	9.2
140°	2.3	1.1	1.1	1.1	1.1	1.1	1.1	2.3	3.4	4.6	6.9
142.5°	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	3.4	5.7
145°	2.3	1.1	1.1	2.3	2.3	1.1	1.1	2.3	2.3	3.4	4.6
147.5°	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4
150°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9
2.5°	2231.3	2205.0	2218.7	2214.1	2218.7	2230.2	2229.0	2225.6	2227.9	2222.2	2216.4
5°	2226.7	2200.4	2214.1	2208.4	2214.1	2225.6	2223.3	2219.9	2223.3	2216.4	2210.7
7.5°	2221.0	2196.9	2213.0	2211.8	2222.2	2237.1	2238.2	2238.2	2246.2	2235.9	2231.3
10°	2221.0	2208.4	2230.2	2238.2	2264.6	2284.1	2286.4	2291.0	2304.7	2302.4	2291.0
12.5°	2245.1	2242.8	2274.9	2294.4	2318.5	2346.0	2360.9	2365.5	2374.7	2367.8	2363.2
15°	2276.0	2287.5	2323.1	2344.8	2371.2	2391.9	2395.3	2397.6	2404.5	2394.1	2386.1
17.5°	2317.3	2324.2	2352.9	2362.0	2379.2	2382.7	2378.1	2366.6	2366.6	2343.7	2336.8
20°	2336.8	2333.4	2344.8	2329.9	2323.1	2302.4	2282.9	2261.1	2260.0	2235.9	2233.6
22.5°	2319.6	2296.7	2272.6	2235.9	2219.9	2190.0	2163.7	2151.1	2143.0	2112.1	2104.1
25°	2258.8	2202.7	2167.1	2123.5	2084.6	2050.2	2024.9	1998.6	1973.3	1948.1	1936.6
27.5°	2153.4	2100.6	2043.3	1982.5	1928.6	1875.9	1833.4	1807.1	1783.0	1749.7	1732.5
30°	2023.8	1950.4	1887.3	1828.9	1740.6	1676.4	1640.8	1588.1	1569.7	1554.8	1522.7
32.5°	1871.3	1783.0	1697.0	1617.9	1527.3	1467.7	1420.7	1381.7	1370.2	1331.2	1322.1
35°	1702.7	1586.9	1489.5	1411.5	1346.1	1273.9	1234.9	1208.5	1185.6	1159.2	1154.6
37.5°	1504.4	1400.0	1289.9	1221.2	1169.6	1107.6	1077.8	1059.5	1049.2	1029.7	1026.2
40°	1304.9	1200.5	1124.8	1056.0	1023.9	990.7	968.9	960.9	956.3	949.4	942.5
42.5°	1123.7	1032.0	978.1	932.2	918.4	902.4	896.7	901.2	896.7	894.4	893.2
45°	970.0	900.1	862.3	848.5	845.1	840.5	845.1	853.1	854.2	851.9	851.9
47.5°	830.2	796.9	780.8	783.1	788.9	792.3	800.3	810.7	813.0	807.2	809.5
50°	738.4	718.9	715.5	724.7	737.3	741.9	751.0	759.1	757.9	755.6	753.3
52.5°	652.4	646.7	655.9	665.0	678.8	681.1	684.5	688.0	686.8	682.2	679.9
55°	580.2	584.8	592.8	596.2	606.6	605.4	606.6	606.6	602.0	599.7	596.2
57.5°	514.8	516.0	520.6	521.7	527.4	525.2	524.0	521.7	514.8	513.7	510.2
60°	448.3	446.0	456.4	448.3	452.9	448.3	447.2	441.4	434.6	433.4	431.1
62.5°	385.3	380.7	387.6	384.1	386.4	381.8	379.5	372.7	366.9	365.8	364.6
65°	329.1	326.8	333.7	332.5	334.8	329.1	326.8	322.2	317.6	316.5	315.3
67.5°	282.1	287.8	291.2	291.2	293.5	292.4	286.7	285.5	284.4	279.8	279.8
70°	247.7	251.1	258.0	259.1	258.0	260.3	255.7	254.6	253.4	251.1	250.0
72.5°	220.2	224.7	231.6	232.8	231.6	231.6	229.3	228.2	228.2	224.7	224.7
75°	198.4	204.1	209.8	209.8	209.8	207.5	205.2	205.2	203.0	201.8	199.5
77.5°	180.0	186.9	191.5	190.3	189.2	186.9	186.9	183.5	180.0	180.0	177.7
80°	166.3	170.8	174.3	173.1	172.0	168.6	167.4	164.0	161.7	158.2	158.2
82.5°	151.4	157.1	159.4	158.2	155.9	152.5	151.4	149.1	146.8	145.6	143.3
85°	138.7	144.5	145.6	143.3	141.0	138.7	137.6	136.4	135.3	133.0	133.0
87.5°	126.1	131.9	131.9	130.7	128.4	127.3	126.1	125.0	123.8	122.7	121.5
90°	115.8	120.4	120.4	119.2	118.1	117.0	115.8	114.7	113.5	112.4	112.4
92.5°	105.5	110.1	110.1	108.9	107.8	106.6	106.6	105.5	104.3	103.2	102.0
95°	96.3	100.9	100.9	100.9	99.8	98.6	98.6	97.5	96.3	96.3	95.2
97.5°	87.1	91.7	91.7	91.7	90.6	89.4	89.4	88.3	88.3	88.3	87.1
100°	79.1	82.6	83.7	83.7	82.6	82.6	82.6	81.4	81.4	81.4	80.3
102.5°	71.1	74.5	76.8	76.8	76.8	75.7	75.7	75.7	75.7	75.7	74.5
105°	64.2	67.7	69.9	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
107.5°	58.5	61.9	64.2	65.4	66.5	66.5	67.7	67.7	67.7	67.7	67.7
110°	52.7	56.2	59.6	60.8	61.9	63.1	63.1	64.2	63.1	63.1	63.1



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	47.0	51.6	53.9	56.2	57.3	58.5	59.6	59.6	59.6	59.6	59.6
115°	42.4	47.0	49.3	51.6	53.9	55.0	55.0	56.2	56.2	56.2	55.0
117.5°	37.8	42.4	44.7	47.0	48.2	50.5	51.6	51.6	51.6	51.6	50.5
120°	34.4	37.8	40.1	42.4	44.7	45.9	47.0	47.0	47.0	47.0	47.0
122.5°	29.8	33.3	36.7	39.0	40.1	41.3	42.4	42.4	42.4	42.4	42.4
125°	26.4	29.8	32.1	34.4	35.5	37.8	37.8	37.8	37.8	37.8	37.8
127.5°	22.9	26.4	28.7	31.0	32.1	33.3	34.4	34.4	34.4	34.4	34.4
130°	19.5	22.9	25.2	27.5	28.7	29.8	29.8	31.0	31.0	31.0	31.0
132.5°	17.2	19.5	21.8	24.1	25.2	26.4	26.4	27.5	27.5	27.5	27.5
135°	13.8	17.2	18.3	20.6	21.8	22.9	22.9	24.1	24.1	24.1	24.1
137.5°	11.5	13.8	16.1	18.3	19.5	19.5	20.6	20.6	21.8	21.8	21.8
140°	9.2	10.3	13.8	14.9	16.1	17.2	18.3	18.3	18.3	18.3	18.3
142.5°	6.9	9.2	10.3	12.6	13.8	14.9	16.1	16.1	16.1	16.1	16.1
145°	5.7	6.9	8.0	10.3	11.5	12.6	13.8	13.8	13.8	13.8	13.8
147.5°	4.6	5.7	6.9	8.0	9.2	10.3	11.5	11.5	11.5	11.5	11.5
150°	3.4	4.6	5.7	5.7	6.9	8.0	9.2	10.3	10.3	10.3	10.3
152.5°	3.4	3.4	4.6	4.6	5.7	6.9	8.0	8.0	8.0	8.0	8.0
155°	2.3	3.4	3.4	3.4	4.6	4.6	5.7	6.9	6.9	6.9	6.9
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9
2.5°	2219.9	2224.4	2222.2	2218.7	2217.6	2223.3	2217.6	2191.2	2201.5	2202.7	2210.7
5°	2216.4	2219.9	2217.6	2215.3	2211.8	2218.7	2211.8	2184.3	2194.6	2195.8	2203.8
7.5°	2239.4	2240.5	2240.5	2234.8	2225.6	2229.0	2219.9	2188.9	2194.6	2194.6	2200.4
10°	2296.7	2299.0	2302.4	2287.5	2276.0	2266.9	2254.3	2216.4	2215.3	2206.1	2206.1
12.5°	2371.2	2365.5	2359.7	2352.9	2343.7	2332.2	2313.9	2269.2	2254.3	2239.4	2224.4
15°	2393.0	2390.7	2389.6	2386.1	2380.4	2376.9	2363.2	2318.5	2296.7	2278.3	2252.0
17.5°	2335.7	2340.3	2355.2	2356.3	2363.2	2376.9	2374.7	2343.7	2324.2	2316.2	2284.1
20°	2232.5	2233.6	2252.0	2260.0	2289.8	2312.7	2329.9	2326.5	2321.9	2331.1	2307.0
22.5°	2108.6	2116.7	2136.2	2148.8	2177.4	2203.8	2231.3	2246.2	2270.3	2308.1	2303.6
25°	1940.1	1950.4	1977.9	1998.6	2038.7	2078.8	2115.5	2141.9	2170.6	2242.8	2266.9
27.5°	1738.3	1754.3	1789.9	1810.5	1866.7	1908.0	1960.7	2012.3	2052.5	2135.0	2184.3
30°	1526.2	1539.9	1577.8	1606.4	1654.6	1710.8	1777.3	1850.6	1917.2	2000.9	2062.8
32.5°	1327.8	1342.7	1373.7	1398.9	1452.8	1499.8	1573.2	1663.7	1725.7	1841.5	1924.0
35°	1154.6	1168.4	1190.2	1212.0	1256.7	1304.9	1367.9	1456.2	1535.3	1655.7	1760.1
37.5°	1033.1	1035.4	1048.0	1060.6	1093.9	1130.6	1179.9	1257.8	1331.2	1460.8	1575.5
40°	946.0	946.0	952.8	956.3	971.2	993.0	1023.9	1084.7	1145.5	1244.1	1384.0
42.5°	892.1	889.8	889.8	890.9	889.8	900.1	918.4	947.1	1001.0	1082.4	1191.3
45°	851.9	847.4	843.9	835.9	831.3	831.3	832.4	842.8	873.7	926.5	1014.8
47.5°	807.2	806.1	800.3	791.2	783.1	777.4	768.2	764.8	774.0	803.8	863.4
50°	755.6	749.9	744.2	737.3	728.1	722.4	705.2	706.3	698.3	712.1	743.0
52.5°	679.9	675.4	673.1	667.3	663.9	661.6	647.8	634.1	630.6	632.9	644.4
55°	596.2	598.5	589.4	594.0	592.8	582.5	576.8	566.4	563.0	561.8	567.6
57.5°	509.1	511.4	505.7	510.2	510.2	504.5	501.1	501.1	493.0	486.2	494.2
60°	430.0	425.4	428.8	434.6	434.6	431.1	428.8	428.8	423.1	420.8	426.5
62.5°	365.8	361.2	364.6	370.4	371.5	369.2	366.9	366.9	360.0	360.0	364.6
65°	316.5	317.6	316.5	321.1	321.1	322.2	319.9	317.6	309.6	313.0	311.9
67.5°	280.9	279.8	279.8	284.4	283.2	285.5	283.2	279.8	274.0	269.5	268.3
70°	251.1	250.0	250.0	252.3	253.4	253.4	252.3	250.0	241.9	237.4	233.9
72.5°	224.7	223.6	224.7	225.9	227.0	228.2	227.0	224.7	217.9	212.1	206.4
75°	200.7	199.5	203.0	203.0	204.1	204.1	205.2	204.1	198.4	191.5	184.6
77.5°	176.6	177.7	181.2	182.3	184.6	185.8	186.9	186.9	181.2	175.4	166.3
80°	157.1	159.4	161.7	162.8	165.1	168.6	169.7	170.8	166.3	160.5	150.2
82.5°	143.3	144.5	146.8	147.9	151.4	152.5	153.6	155.9	153.6	147.9	136.4
85°	131.9	133.0	135.3	135.3	137.6	139.9	141.0	142.2	141.0	135.3	123.8
87.5°	121.5	122.7	123.8	125.0	126.1	127.3	128.4	129.6	128.4	122.7	112.4
90°	112.4	112.4	113.5	113.5	114.7	115.8	118.1	118.1	117.0	112.4	102.0
92.5°	102.0	103.2	103.2	104.3	105.5	106.6	107.8	107.8	106.6	102.0	92.9
95°	95.2	95.2	96.3	96.3	97.5	97.5	98.6	98.6	97.5	92.9	83.7
97.5°	87.1	87.1	87.1	87.1	88.3	88.3	89.4	89.4	88.3	83.7	75.7
100°	80.3	80.3	80.3	80.3	80.3	81.4	81.4	81.4	80.3	75.7	67.7
102.5°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	72.2	68.8	60.8
105°	71.1	71.1	71.1	69.9	69.9	69.9	68.8	68.8	65.4	61.9	55.0
107.5°	66.5	66.5	66.5	65.4	65.4	64.2	63.1	63.1	59.6	56.2	49.3
110°	63.1	63.1	63.1	61.9	60.8	59.6	58.5	57.3	53.9	49.3	43.6



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	59.6	59.6	58.5	58.5	57.3	56.2	53.9	52.7	49.3	44.7	39.0
115°	55.0	55.0	55.0	53.9	52.7	51.6	50.5	48.2	44.7	40.1	34.4
117.5°	50.5	50.5	50.5	49.3	48.2	47.0	45.9	43.6	40.1	35.5	31.0
120°	45.9	45.9	45.9	44.7	43.6	42.4	41.3	39.0	35.5	32.1	26.4
122.5°	42.4	42.4	41.3	40.1	39.0	37.8	36.7	34.4	32.1	27.5	22.9
125°	37.8	37.8	36.7	36.7	35.5	34.4	33.3	31.0	27.5	24.1	20.6
127.5°	34.4	33.3	33.3	33.3	32.1	31.0	28.7	27.5	24.1	20.6	17.2
130°	29.8	29.8	29.8	28.7	28.7	27.5	25.2	22.9	20.6	18.3	14.9
132.5°	26.4	26.4	26.4	26.4	25.2	24.1	21.8	20.6	18.3	14.9	12.6
135°	24.1	24.1	22.9	22.9	21.8	20.6	19.5	17.2	14.9	12.6	10.3
137.5°	20.6	20.6	20.6	19.5	19.5	18.3	16.1	14.9	13.8	11.5	9.2
140°	18.3	18.3	17.2	17.2	16.1	16.1	14.9	12.6	11.5	9.2	8.0
142.5°	16.1	16.1	14.9	14.9	13.8	13.8	12.6	11.5	9.2	8.0	5.7
145°	13.8	13.8	12.6	12.6	12.6	11.5	10.3	9.2	8.0	6.9	5.7
147.5°	11.5	11.5	11.5	10.3	10.3	9.2	9.2	8.0	6.9	5.7	4.6
150°	10.3	10.3	9.2	9.2	9.2	8.0	6.9	6.9	5.7	4.6	3.4
152.5°	8.0	8.0	8.0	8.0	6.9	6.9	5.7	5.7	4.6	3.4	3.4
155°	6.9	6.9	6.9	5.7	5.7	5.7	4.6	4.6	3.4	3.4	2.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9	2219.9
2.5°	2207.2	2206.1	2216.4	2215.3	2201.5	2222.2	2235.9
5°	2201.5	2200.4	2209.5	2211.8	2196.9	2218.7	2233.6
7.5°	2196.9	2195.8	2206.1	2209.5	2194.6	2214.1	2230.2
10°	2198.1	2192.3	2201.5	2203.8	2190.0	2210.7	2224.4
12.5°	2206.1	2192.3	2195.8	2195.8	2183.2	2201.5	2216.4
15°	2225.6	2196.9	2192.3	2188.9	2172.8	2190.0	2205.0
17.5°	2247.4	2208.4	2192.3	2180.9	2161.4	2176.3	2192.3
20°	2269.2	2221.0	2194.6	2176.3	2149.9	2163.7	2175.1
22.5°	2279.5	2232.5	2196.9	2169.4	2136.2	2143.0	2155.6
25°	2265.7	2227.9	2192.3	2159.1	2119.0	2120.1	2130.4
27.5°	2215.3	2205.0	2182.0	2148.8	2105.2	2099.5	2107.5
30°	2129.3	2157.9	2159.1	2135.0	2089.1	2077.7	2081.1
32.5°	2008.9	2073.1	2110.9	2106.3	2066.2	2050.2	2052.5
35°	1870.1	1950.4	2033.0	2060.5	2031.8	2019.2	2014.6
37.5°	1703.9	1811.7	1921.7	1989.4	1984.8	1976.8	1972.2
40°	1520.4	1650.0	1780.7	1888.5	1921.7	1921.7	1924.0
42.5°	1324.3	1475.7	1619.0	1755.5	1833.4	1850.6	1857.5
45°	1135.2	1287.7	1443.6	1600.7	1705.0	1758.9	1778.4
47.5°	963.2	1116.8	1264.7	1436.7	1575.5	1645.4	1676.4
50°	816.4	931.1	1087.0	1257.8	1409.2	1495.2	1556.0
52.5°	694.9	784.3	920.7	1080.1	1232.6	1350.7	1406.9
55°	592.8	653.6	769.4	907.0	1052.6	1175.3	1240.6
57.5°	506.8	555.0	634.1	748.7	871.4	993.0	1062.9
60°	431.1	464.4	518.3	608.9	713.2	817.5	885.2
62.5°	365.8	387.6	423.1	489.6	571.0	652.4	715.5
65°	315.3	324.5	344.0	385.3	447.2	509.1	563.0
67.5°	266.0	271.7	286.7	311.9	342.8	387.6	423.1
70°	229.3	229.3	230.5	245.4	261.4	290.1	315.3
72.5°	199.5	196.1	189.2	192.6	196.1	212.1	228.2
75°	175.4	167.4	155.9	151.4	149.1	151.4	160.5
77.5°	154.8	143.3	129.6	118.1	108.9	105.5	113.5
80°	137.6	123.8	107.8	92.9	78.0	69.9	73.4
82.5°	123.8	106.6	89.4	72.2	55.0	43.6	43.6
85°	108.9	92.9	74.5	56.2	39.0	24.1	21.8
87.5°	98.6	81.4	61.9	44.7	27.5	12.6	6.9
90°	88.3	71.1	52.7	35.5	19.5	5.7	0.0
92.5°	79.1	63.1	45.9	28.7	13.8	3.4	0.0
95°	71.1	56.2	39.0	24.1	11.5	2.3	1.1
97.5°	63.1	49.3	34.4	19.5	8.0	2.3	1.1
100°	57.3	43.6	29.8	16.1	6.9	1.1	1.1
102.5°	50.5	39.0	25.2	13.8	5.7	1.1	1.1
105°	44.7	34.4	21.8	11.5	4.6	1.1	1.1
107.5°	40.1	29.8	19.5	10.3	4.6	1.1	1.1
110°	35.5	26.4	17.2	9.2	3.4	1.1	1.1



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	32.1	22.9	14.9	8.0	2.3	1.1	1.1
115°	27.5	20.6	12.6	6.9	2.3	1.1	1.1
117.5°	24.1	17.2	11.5	5.7	2.3	1.1	1.1
120°	20.6	14.9	9.2	4.6	1.1	1.1	1.1
122.5°	18.3	12.6	8.0	4.6	1.1	1.1	1.1
125°	16.1	11.5	6.9	3.4	1.1	1.1	1.1
127.5°	13.8	9.2	5.7	2.3	1.1	1.1	1.1
130°	11.5	8.0	4.6	2.3	1.1	1.1	1.1
132.5°	9.2	6.9	4.6	2.3	1.1	1.1	1.1
135°	8.0	5.7	3.4	2.3	1.1	1.1	1.1
137.5°	6.9	4.6	2.3	2.3	2.3	1.1	1.1
140°	5.7	3.4	2.3	2.3	2.3	2.3	1.1
142.5°	4.6	3.4	2.3	2.3	2.3	2.3	1.1
145°	3.4	2.3	2.3	2.3	2.3	2.3	1.1
147.5°	3.4	2.3	2.3	2.3	2.3	2.3	1.1
150°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
152.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
155°	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)