

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-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

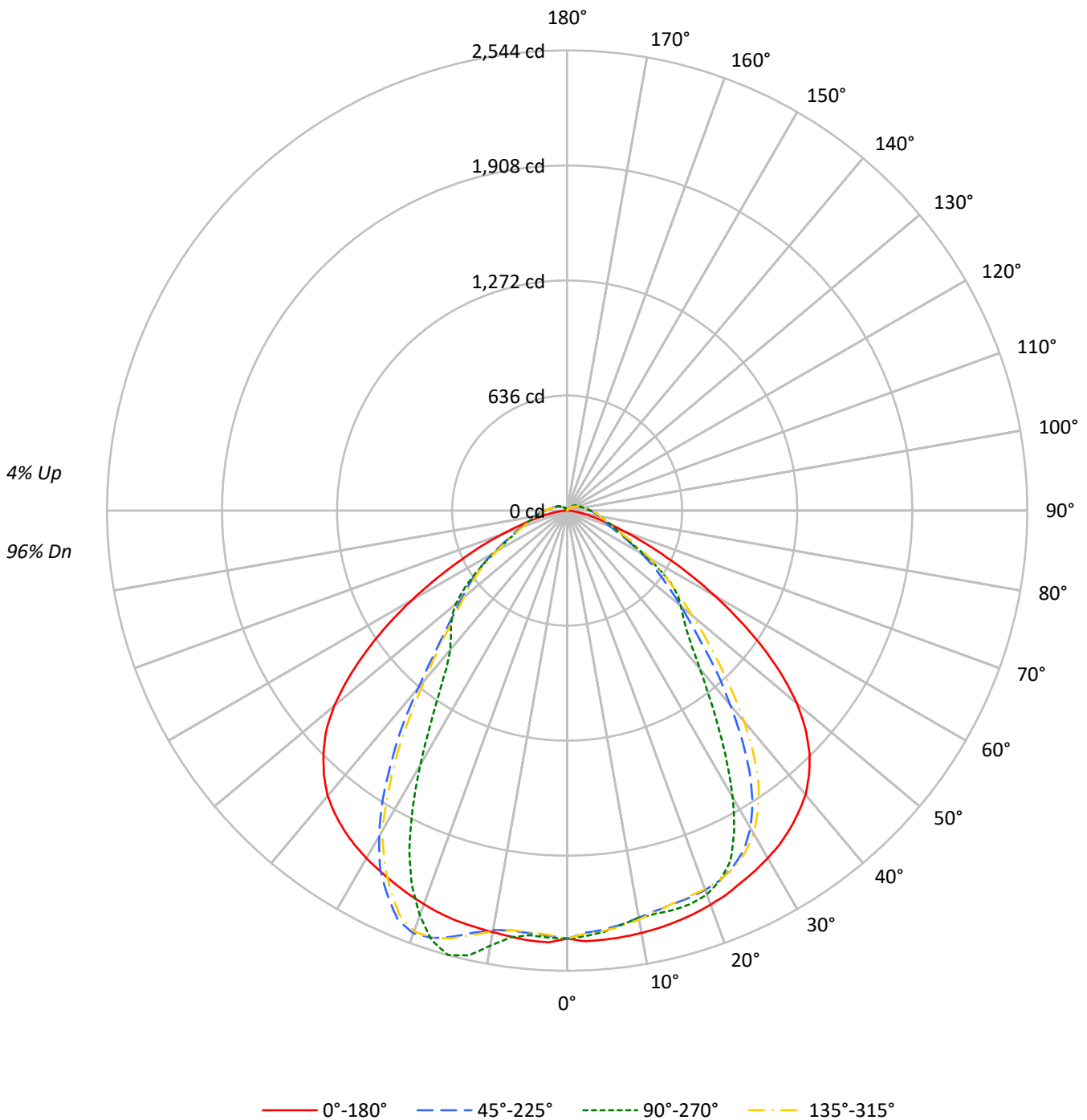
Lumens per Lamp: N/A
Luminaire Lumens: 5641.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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-L950-CD1-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9561	9561	9561	9561
5°	9644	9182	9663	9254
10°	9702	8800	9682	9397
15°	9791	8682	9785	9667
20°	9913	8545	9902	9007
25°	10051	8106	10046	7833
30°	10258	7025	10263	6224
35°	10478	5681	10508	4807
40°	10677	4574	10722	4030
45°	10666	3875	10721	3773
50°	10235	3567	10378	3487
55°	9113	3206	9340	2915
60°	7424	2454	7819	2251
65°	5551	1877	5981	1780
70°	3807	1621	4292	1549
75°	2524	1462	2938	1383
80°	1671	1363	1960	1255
85°	913	1360	1204	1243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	4.0
10°-20°	668.8	11.9
20°-30°	1016.7	18.0
30°-40°	1090.7	19.3
40°-50°	946.6	16.8
50°-60°	701.5	12.4
60°-70°	401.9	7.1
70°-80°	222.6	3.9
80°-90°	135.5	2.4
90°-100°	88.1	1.6
100°-110°	59.0	1.0
110°-120°	39.9	0.7
120°-130°	24.5	0.4
130°-140°	12.9	0.2
140°-150°	5.9	0.1
150°-160°	1.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1910.2	33.9
0°-40°	3000.9	53.2
0°-60°	4649.0	82.4
0°-90°	5409.1	95.9
90°-120°	187.0	3.3
90°-150°	230.2	4.1
90°-180°	232.0	4.1
0°-180°	5641.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2366	2366	2366	2366	2366	
5°	2381	2338	2386	2356	2381	227
15°	2350	2284	2349	2544	2350	665
25°	2271	2136	2270	2064	2271	1050
35°	2148	1454	2154	1231	2148	1344
45°	1896	933	1906	908	1896	1451
55°	1322	699	1356	636	1322	1173
65°	600	354	647	336	600	605
75°	171	225	199	213	171	195
85°	23	155	31	142	23	31
90°	0	130	2	120	0	1
95°	1	106	0	101	1	1
105°	1	79	1	76	1	1
115°	1	65	1	59	1	1
125°	1	49	1	40	1	1
135°	1	31	1	26	1	1
145°	1	18	2	15	1	1
155°	2	9	2	7	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2383.4	2377.3	2374.8	2369.9	2373.6	2388.3	2378.5	2362.6	2363.8	2335.7	2350.4
5°	2380.9	2373.6	2369.9	2365.0	2367.5	2380.9	2371.1	2355.3	2354.0	2325.9	2339.4
7.5°	2377.3	2369.9	2363.8	2360.1	2361.4	2372.4	2360.1	2341.8	2338.1	2307.6	2319.8
10°	2371.1	2366.3	2357.7	2351.6	2350.4	2362.6	2343.0	2324.7	2316.1	2284.4	2296.6
12.5°	2362.6	2355.3	2346.7	2335.7	2334.5	2341.8	2325.9	2300.3	2291.7	2266.0	2279.5
15°	2350.4	2341.8	2332.0	2319.8	2313.7	2318.6	2299.0	2275.8	2274.6	2252.6	2270.9
17.5°	2336.9	2324.7	2313.7	2296.6	2288.0	2291.7	2275.8	2255.0	2257.5	2244.0	2264.8
20°	2318.6	2305.1	2288.0	2270.9	2258.7	2264.8	2253.8	2237.9	2241.6	2231.8	2250.1
22.5°	2297.8	2279.5	2258.7	2239.1	2229.4	2237.9	2229.4	2215.9	2217.1	2211.0	2222.0
25°	2270.9	2250.1	2225.7	2201.3	2196.4	2202.5	2197.6	2186.6	2181.7	2171.9	2176.8
27.5°	2246.5	2223.3	2192.7	2167.0	2158.5	2170.7	2159.7	2141.4	2127.9	2114.5	2104.7
30°	2218.4	2190.3	2156.0	2126.7	2119.4	2124.3	2108.4	2080.3	2044.8	2027.7	2000.8
32.5°	2187.8	2151.1	2108.4	2075.4	2070.5	2066.8	2037.5	1997.1	1942.1	1907.9	1866.4
35°	2147.5	2107.1	2055.8	2015.5	2008.1	1987.4	1939.7	1885.9	1815.0	1756.4	1685.5
37.5°	2102.3	2054.6	2000.8	1947.0	1926.3	1884.7	1817.5	1761.2	1653.7	1582.8	1497.2
40°	2050.9	1993.5	1927.5	1862.7	1828.5	1761.2	1684.2	1601.1	1497.2	1401.9	1329.8
42.5°	1980.0	1918.9	1840.7	1768.6	1709.9	1620.7	1530.2	1412.9	1317.6	1236.9	1163.6
45°	1895.7	1822.4	1731.9	1645.1	1570.6	1464.2	1357.9	1240.6	1161.1	1067.0	1016.9
47.5°	1786.9	1707.5	1610.9	1514.4	1416.6	1299.2	1188.0	1075.6	996.1	928.9	892.2
50°	1658.6	1585.2	1478.9	1364.0	1256.5	1134.2	1023.0	938.7	861.7	820.1	792.0
52.5°	1499.7	1431.2	1322.5	1197.8	1093.9	974.1	872.7	804.2	749.2	718.7	708.9
55°	1322.5	1262.6	1155.0	1038.9	932.6	822.6	745.6	685.7	650.2	631.9	633.1
57.5°	1133.0	1086.6	985.1	881.2	781.0	697.9	628.2	580.6	553.7	552.5	556.1
60°	943.6	909.3	821.3	732.1	644.1	576.9	525.6	492.6	475.5	476.7	475.5
62.5°	762.7	730.9	667.3	594.0	524.3	479.1	432.7	419.2	404.6	403.3	403.3
65°	600.1	575.7	524.3	471.8	419.2	389.9	366.7	350.8	339.8	337.3	338.6
67.5°	451.0	441.2	405.8	370.3	337.3	319.0	299.4	295.8	287.2	287.2	289.7
70°	336.1	328.8	309.2	288.4	275.0	262.8	253.0	253.0	251.8	250.6	256.7
72.5°	243.2	244.4	238.3	222.4	221.2	218.8	216.3	220.0	221.2	224.9	232.2
75°	171.1	174.8	174.8	172.3	177.2	183.3	187.0	193.1	200.4	205.3	213.9
77.5°	121.0	121.0	127.1	134.4	144.2	155.2	165.0	173.6	183.3	189.4	196.8
80°	78.2	81.9	91.7	105.1	118.6	133.2	146.7	157.7	167.4	177.2	182.1
82.5°	46.4	52.6	64.8	81.9	99.0	117.3	130.8	144.2	155.2	165.0	168.7
85°	23.2	31.8	46.4	64.8	83.1	102.7	119.8	132.0	144.2	152.8	157.7
87.5°	7.3	17.1	33.0	50.1	69.7	89.2	107.6	121.0	132.0	139.3	144.2
90°	0.0	8.6	23.2	41.6	59.9	79.4	96.6	111.2	122.2	128.3	132.0
92.5°	0.0	4.9	18.3	34.2	51.3	70.9	88.0	101.4	111.2	117.3	119.8
95°	1.2	3.7	13.4	28.1	45.2	63.6	79.4	91.7	101.4	107.6	108.8
97.5°	1.2	2.4	11.0	23.2	39.1	56.2	72.1	84.3	91.7	97.8	99.0
100°	1.2	2.4	8.6	20.8	34.2	50.1	64.8	75.8	84.3	89.2	90.4
102.5°	1.2	1.2	7.3	17.1	30.6	44.0	57.4	68.4	75.8	80.7	83.1
105°	1.2	1.2	6.1	14.7	26.9	39.1	51.3	62.3	68.4	73.3	75.8
107.5°	1.2	1.2	4.9	12.2	23.2	34.2	46.4	55.0	62.3	67.2	69.7
110°	1.2	1.2	3.7	11.0	19.6	30.6	40.3	48.9	56.2	61.1	63.6



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	1.2	3.7	9.8	17.1	26.9	35.4	44.0	50.1	55.0	58.7
115°	1.2	1.2	3.7	8.6	15.9	23.2	31.8	39.1	45.2	50.1	53.8
117.5°	1.2	1.2	3.7	7.3	13.4	20.8	28.1	35.4	40.3	45.2	48.9
120°	1.2	1.2	2.4	6.1	12.2	18.3	24.4	30.6	36.7	41.6	45.2
122.5°	1.2	1.2	2.4	6.1	9.8	15.9	22.0	26.9	33.0	36.7	40.3
125°	1.2	1.2	2.4	4.9	8.6	14.7	19.6	24.4	28.1	33.0	36.7
127.5°	1.2	1.2	2.4	4.9	7.3	12.2	17.1	22.0	25.7	29.3	31.8
130°	1.2	1.2	2.4	3.7	6.1	9.8	14.7	18.3	23.2	25.7	28.1
132.5°	1.2	1.2	1.2	3.7	4.9	7.3	11.0	15.9	19.6	23.2	24.4
135°	1.2	1.2	1.2	2.4	4.9	6.1	8.6	12.2	15.9	19.6	22.0
137.5°	1.2	1.2	1.2	2.4	3.7	6.1	7.3	9.8	13.4	15.9	19.6
140°	1.2	1.2	1.2	2.4	3.7	4.9	6.1	8.6	11.0	13.4	15.9
142.5°	1.2	1.2	1.2	2.4	2.4	3.7	4.9	7.3	8.6	11.0	13.4
145°	1.2	1.2	1.2	2.4	2.4	3.7	4.9	6.1	7.3	8.6	11.0
147.5°	1.2	1.2	1.2	2.4	2.4	2.4	3.7	4.9	6.1	7.3	8.6
150°	2.4	2.4	2.4	2.4	2.4	2.4	3.7	3.7	4.9	6.1	7.3
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.7	3.7	3.7	4.9	6.1
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.7	3.7	4.9	4.9
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2345.5	2347.9	2362.6	2361.4	2358.9	2356.5	2356.5	2354.0	2356.5	2362.6	2360.1
5°	2333.3	2336.9	2347.9	2346.7	2344.3	2343.0	2341.8	2338.1	2340.6	2349.1	2346.7
7.5°	2311.3	2314.9	2324.7	2319.8	2316.1	2318.6	2312.5	2308.8	2313.7	2322.3	2321.0
10°	2288.0	2290.5	2302.7	2300.3	2294.1	2295.4	2289.3	2286.8	2292.9	2297.8	2299.0
12.5°	2272.1	2280.7	2291.7	2290.5	2289.3	2290.5	2284.4	2281.9	2285.6	2290.5	2289.3
15°	2268.5	2279.5	2291.7	2291.7	2292.9	2294.1	2288.0	2284.4	2288.0	2291.7	2290.5
17.5°	2264.8	2278.3	2289.3	2288.0	2289.3	2291.7	2281.9	2279.5	2284.4	2289.3	2286.8
20°	2252.6	2264.8	2272.1	2269.7	2269.7	2270.9	2258.7	2258.7	2266.0	2269.7	2270.9
22.5°	2218.4	2233.0	2233.0	2226.9	2226.9	2222.0	2218.4	2211.0	2219.6	2225.7	2230.6
25°	2167.0	2173.1	2165.8	2152.4	2145.0	2138.9	2121.8	2136.5	2136.5	2154.8	2160.9
27.5°	2094.9	2081.5	2060.7	2032.6	2026.5	2006.9	1995.9	1999.6	2005.7	2031.4	2050.9
30°	1976.4	1936.0	1900.6	1888.4	1861.5	1841.9	1822.4	1832.1	1843.1	1857.8	1898.1
32.5°	1819.9	1780.8	1723.4	1702.6	1674.5	1650.0	1626.8	1641.5	1661.0	1670.8	1714.8
35°	1640.2	1593.8	1541.2	1505.8	1476.5	1463.0	1433.7	1454.5	1475.2	1482.6	1520.5
37.5°	1449.6	1401.9	1355.5	1324.9	1296.8	1288.2	1268.7	1283.4	1299.2	1310.2	1342.0
40°	1268.7	1224.7	1189.2	1168.5	1148.9	1141.6	1134.2	1140.3	1152.6	1161.1	1185.6
42.5°	1113.5	1078.0	1053.6	1041.3	1027.9	1018.1	1019.3	1021.8	1027.9	1046.2	1057.2
45°	977.8	957.0	941.1	938.7	930.1	928.9	927.7	932.6	936.2	947.2	955.8
47.5°	869.0	860.5	856.8	861.7	865.3	860.5	862.9	869.0	876.3	876.3	875.1
50°	783.5	785.9	790.8	801.8	809.1	811.6	814.0	821.3	822.6	825.0	821.3
52.5°	713.8	716.2	729.7	746.8	755.3	759.0	763.9	771.2	771.2	773.7	768.8
55°	642.9	646.6	660.0	677.1	684.5	689.3	694.2	699.1	702.8	707.7	704.0
57.5°	564.7	575.7	584.2	589.1	594.0	597.7	601.3	602.6	609.9	611.1	617.2
60°	481.6	484.0	492.6	491.3	487.7	497.5	492.6	501.1	509.7	520.7	521.9
62.5°	402.1	403.3	409.5	407.0	411.9	410.7	414.3	414.3	420.5	425.3	431.5
65°	339.8	341.0	345.9	345.9	344.7	348.3	352.0	354.4	354.4	358.1	363.0
67.5°	293.3	297.0	301.9	304.3	306.8	306.8	310.4	311.7	314.1	315.3	317.8
70°	261.6	266.4	271.3	273.8	275.0	277.4	278.7	278.7	281.1	282.3	284.8
72.5°	238.3	243.2	246.9	246.9	249.3	250.6	250.6	251.8	253.0	255.4	257.9
75°	218.8	222.4	224.9	223.7	223.7	223.7	224.9	224.9	227.3	229.8	232.2
77.5°	200.4	204.1	204.1	201.7	201.7	201.7	201.7	202.9	204.1	206.6	209.0
80°	187.0	187.0	185.8	185.8	183.3	182.1	182.1	183.3	183.3	185.8	189.4
82.5°	172.3	172.3	171.1	169.9	168.7	167.4	167.4	168.7	169.9	171.1	173.6
85°	158.9	158.9	156.4	156.4	155.2	155.2	155.2	155.2	156.4	157.7	160.1
87.5°	145.4	144.2	143.0	141.8	141.8	141.8	141.8	141.8	143.0	145.4	146.7
90°	132.0	130.8	129.6	129.6	128.3	128.3	129.6	129.6	130.8	132.0	133.2
92.5°	119.8	118.6	117.3	117.3	116.1	116.1	117.3	116.1	118.6	118.6	119.8
95°	108.8	107.6	106.3	106.3	106.3	106.3	106.3	106.3	107.6	107.6	108.8
97.5°	99.0	97.8	96.6	96.6	97.8	96.6	97.8	97.8	97.8	99.0	100.2
100°	90.4	89.2	89.2	90.4	89.2	89.2	90.4	90.4	90.4	90.4	91.7
102.5°	83.1	83.1	83.1	83.1	83.1	83.1	84.3	84.3	84.3	84.3	85.6
105°	75.8	77.0	77.0	77.0	78.2	78.2	78.2	79.4	79.4	79.4	79.4
107.5°	70.9	72.1	72.1	73.3	73.3	74.6	74.6	74.6	74.6	75.8	75.8
110°	66.0	67.2	68.4	69.7	69.7	70.9	70.9	70.9	70.9	70.9	70.9



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	61.1	62.3	63.6	66.0	67.2	67.2	67.2	67.2	68.4	68.4	67.2
115°	56.2	58.7	59.9	62.3	63.6	63.6	64.8	64.8	64.8	64.8	63.6
117.5°	51.3	55.0	56.2	58.7	59.9	59.9	61.1	61.1	61.1	61.1	59.9
120°	47.7	50.1	52.6	53.8	55.0	56.2	56.2	57.4	57.4	57.4	56.2
122.5°	44.0	46.4	48.9	50.1	51.3	52.6	52.6	52.6	52.6	52.6	52.6
125°	39.1	41.6	44.0	45.2	46.4	47.7	47.7	48.9	48.9	48.9	47.7
127.5°	35.4	37.9	39.1	41.6	42.8	42.8	44.0	44.0	44.0	44.0	42.8
130°	30.6	33.0	35.4	36.7	37.9	37.9	39.1	39.1	39.1	39.1	39.1
132.5°	26.9	29.3	30.6	33.0	33.0	34.2	34.2	35.4	35.4	35.4	34.2
135°	24.4	25.7	26.9	29.3	29.3	30.6	30.6	30.6	30.6	30.6	30.6
137.5°	22.0	23.2	24.4	25.7	25.7	26.9	26.9	26.9	26.9	28.1	26.9
140°	18.3	20.8	22.0	22.0	23.2	23.2	23.2	24.4	24.4	24.4	23.2
142.5°	15.9	17.1	18.3	19.6	20.8	20.8	20.8	20.8	22.0	20.8	20.8
145°	12.2	14.7	15.9	17.1	18.3	18.3	18.3	18.3	18.3	18.3	18.3
147.5°	9.8	11.0	13.4	14.7	14.7	15.9	15.9	15.9	15.9	15.9	15.9
150°	8.6	8.6	11.0	12.2	13.4	13.4	13.4	13.4	13.4	13.4	13.4
152.5°	6.1	7.3	8.6	9.8	11.0	11.0	11.0	11.0	11.0	11.0	11.0
155°	6.1	6.1	7.3	7.3	8.6	8.6	8.6	8.6	9.8	8.6	8.6
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2356.5	2355.3	2360.1	2355.3	2330.8	2340.6	2336.9	2350.4	2351.6	2355.3	2367.5
5°	2344.3	2344.3	2350.4	2345.5	2322.3	2332.0	2330.8	2344.3	2346.7	2349.1	2362.6
7.5°	2319.8	2321.0	2329.6	2325.9	2301.5	2316.1	2314.9	2330.8	2335.7	2340.6	2352.8
10°	2296.6	2295.4	2305.1	2301.5	2278.3	2295.4	2294.1	2310.0	2317.4	2325.9	2340.6
12.5°	2284.4	2280.7	2284.4	2280.7	2255.0	2268.5	2269.7	2288.0	2296.6	2307.6	2324.7
15°	2284.4	2278.3	2278.3	2270.9	2241.6	2250.1	2251.4	2263.6	2274.6	2285.6	2306.4
17.5°	2281.9	2275.8	2274.6	2268.5	2236.7	2236.7	2235.5	2244.0	2250.1	2261.1	2283.1
20°	2268.5	2266.0	2264.8	2261.1	2231.8	2226.9	2224.5	2224.5	2228.1	2231.8	2253.8
22.5°	2233.0	2235.5	2237.9	2240.4	2217.1	2208.6	2209.8	2207.4	2203.7	2203.7	2222.0
25°	2167.0	2179.3	2189.0	2200.0	2186.6	2180.5	2187.8	2184.1	2178.0	2173.1	2189.0
27.5°	2061.9	2087.6	2108.4	2135.3	2136.5	2131.6	2151.1	2148.7	2147.5	2140.1	2152.4
30°	1916.5	1956.8	1984.9	2024.0	2057.0	2061.9	2094.9	2099.8	2104.7	2101.0	2113.3
32.5°	1740.5	1795.5	1843.1	1904.2	1936.0	1964.1	2010.6	2030.1	2049.7	2055.8	2069.3
35°	1548.6	1610.9	1667.1	1734.4	1784.5	1845.6	1901.8	1931.1	1975.1	1992.3	2011.8
37.5°	1366.5	1425.1	1480.1	1547.4	1628.0	1691.6	1761.2	1827.2	1887.1	1911.6	1940.9
40°	1205.1	1252.8	1305.4	1364.0	1437.4	1520.5	1596.2	1687.9	1758.8	1807.7	1850.5
42.5°	1082.9	1106.1	1151.3	1203.9	1262.6	1346.9	1423.9	1526.6	1612.1	1681.8	1752.7
45°	974.1	985.1	1018.1	1046.2	1106.1	1180.7	1262.6	1362.8	1452.0	1541.2	1626.8
47.5°	881.2	894.7	910.6	927.7	970.5	1032.8	1103.7	1194.1	1283.4	1387.2	1485.0
50°	818.9	822.6	825.0	832.3	858.0	900.8	958.2	1035.2	1120.8	1232.0	1335.9
52.5°	763.9	763.9	756.6	752.9	762.7	789.6	822.6	877.6	965.6	1068.2	1178.2
55°	705.2	694.2	691.8	679.6	682.0	694.2	710.1	752.9	825.0	913.0	1019.3
57.5°	623.3	618.5	618.5	613.6	603.8	609.9	613.6	644.1	695.5	771.2	864.1
60°	529.2	526.8	532.9	534.1	525.6	529.2	528.0	546.3	583.0	644.1	721.1
62.5°	435.1	446.1	447.3	452.2	447.3	446.1	452.2	468.1	486.5	532.9	592.8
65°	365.4	371.6	372.8	378.9	376.4	376.4	381.3	393.6	404.6	436.3	482.8
67.5°	320.2	317.8	319.0	322.7	319.0	317.8	321.4	328.8	337.3	356.9	389.9
70°	284.8	282.3	282.3	282.3	277.4	273.8	275.0	277.4	281.1	292.1	312.9
72.5°	257.9	257.9	254.2	250.6	246.9	244.4	242.0	239.6	238.3	242.0	253.0
75°	233.4	234.7	233.4	229.8	224.9	220.0	215.1	210.2	204.1	201.7	202.9
77.5°	211.4	212.7	213.9	212.7	207.8	201.7	194.3	187.0	178.4	169.9	165.0
80°	191.9	194.3	195.6	194.3	190.7	185.8	177.2	168.7	156.4	145.4	133.2
82.5°	174.8	178.4	179.7	179.7	177.2	172.3	162.6	152.8	139.3	124.7	108.8
85°	161.3	163.8	166.2	166.2	165.0	160.1	150.3	139.3	125.9	108.8	91.7
87.5°	147.9	149.1	151.6	154.0	151.6	146.7	138.1	125.9	112.4	95.3	75.8
90°	134.4	135.7	138.1	140.6	139.3	134.4	127.1	116.1	101.4	83.1	63.6
92.5°	121.0	123.4	124.7	125.9	127.1	123.4	117.3	106.3	91.7	73.3	55.0
95°	111.2	111.2	113.7	114.9	116.1	112.4	107.6	96.6	83.1	66.0	47.7
97.5°	101.4	101.4	103.9	103.9	105.1	102.7	97.8	88.0	74.6	58.7	40.3
100°	91.7	92.9	94.1	95.3	95.3	94.1	89.2	79.4	67.2	52.6	35.4
102.5°	85.6	85.6	86.8	86.8	88.0	85.6	80.7	72.1	59.9	46.4	30.6
105°	79.4	79.4	80.7	80.7	79.4	77.0	72.1	64.8	53.8	40.3	26.9
107.5°	74.6	74.6	74.6	74.6	73.3	70.9	66.0	57.4	47.7	36.7	24.4
110°	70.9	69.7	69.7	68.4	67.2	63.6	58.7	51.3	42.8	31.8	20.8



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	67.2	66.0	64.8	63.6	61.1	57.4	52.6	46.4	37.9	28.1	18.3
115°	63.6	62.3	61.1	58.7	56.2	52.6	47.7	41.6	33.0	24.4	15.9
117.5°	59.9	58.7	56.2	53.8	51.3	47.7	42.8	36.7	29.3	22.0	14.7
120°	55.0	53.8	52.6	50.1	47.7	42.8	37.9	33.0	25.7	19.6	12.2
122.5°	51.3	50.1	47.7	46.4	42.8	39.1	34.2	29.3	23.2	17.1	11.0
125°	46.4	45.2	44.0	41.6	39.1	34.2	30.6	25.7	20.8	14.7	8.6
127.5°	42.8	41.6	39.1	36.7	34.2	30.6	26.9	23.2	18.3	12.2	8.6
130°	37.9	36.7	35.4	33.0	30.6	26.9	24.4	19.6	15.9	11.0	7.3
132.5°	33.0	33.0	31.8	29.3	26.9	24.4	20.8	17.1	13.4	9.8	6.1
135°	30.6	29.3	28.1	25.7	24.4	20.8	18.3	14.7	11.0	8.6	4.9
137.5°	26.9	25.7	24.4	23.2	20.8	18.3	15.9	12.2	9.8	7.3	4.9
140°	23.2	22.0	22.0	19.6	18.3	15.9	13.4	11.0	8.6	6.1	3.7
142.5°	20.8	19.6	18.3	17.1	15.9	13.4	11.0	8.6	7.3	4.9	3.7
145°	18.3	17.1	15.9	14.7	13.4	11.0	9.8	7.3	6.1	4.9	3.7
147.5°	14.7	14.7	13.4	12.2	11.0	9.8	8.6	7.3	4.9	3.7	2.4
150°	12.2	12.2	11.0	9.8	9.8	8.6	7.3	6.1	4.9	3.7	2.4
152.5°	11.0	9.8	9.8	8.6	8.6	7.3	6.1	4.9	3.7	3.7	2.4
155°	8.6	8.6	8.6	7.3	7.3	6.1	4.9	4.9	3.7	2.4	2.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2369.9	2355.3	2367.5	2389.5	2387.0	2384.6	2382.1	2387.0	2402.9	2394.4	2380.9
5°	2366.3	2351.6	2365.0	2385.8	2384.6	2380.9	2378.5	2383.4	2399.3	2390.7	2376.0
7.5°	2358.9	2345.5	2355.3	2376.0	2376.0	2373.6	2371.1	2376.0	2390.7	2383.4	2368.7
10°	2346.7	2336.9	2346.7	2366.3	2367.5	2362.6	2360.1	2366.3	2380.9	2377.3	2365.0
12.5°	2336.9	2327.1	2338.1	2357.7	2358.9	2354.0	2350.4	2357.7	2377.3	2379.7	2376.0
15°	2323.5	2314.9	2328.4	2349.1	2349.1	2345.5	2345.5	2355.3	2382.1	2393.1	2399.3
17.5°	2303.9	2297.8	2313.7	2334.5	2335.7	2333.3	2334.5	2354.0	2389.5	2416.4	2433.5
20°	2279.5	2277.0	2294.1	2316.1	2319.8	2321.0	2327.1	2356.5	2405.4	2442.0	2459.1
22.5°	2250.1	2251.4	2270.9	2294.1	2299.0	2302.7	2314.9	2356.5	2417.6	2456.7	2464.0
25°	2217.1	2220.8	2241.6	2269.7	2275.8	2283.1	2303.9	2357.7	2421.3	2446.9	2434.7
27.5°	2181.7	2189.0	2215.9	2245.3	2252.6	2264.8	2291.7	2350.4	2404.1	2405.4	2360.1
30°	2145.0	2153.6	2185.4	2219.6	2231.8	2244.0	2277.0	2333.3	2362.6	2323.5	2244.0
32.5°	2103.5	2115.7	2147.5	2189.0	2203.7	2219.6	2252.6	2300.3	2289.3	2204.9	2091.3
35°	2050.9	2068.0	2104.7	2153.6	2167.0	2187.8	2211.0	2222.0	2173.1	2053.4	1925.0
37.5°	1986.1	2011.8	2054.6	2110.8	2125.5	2138.9	2145.0	2114.5	2016.7	1887.1	1753.9
40°	1911.6	1950.7	1997.1	2059.5	2074.1	2074.1	2052.1	1987.4	1863.9	1694.0	1546.1
42.5°	1821.1	1868.8	1927.5	1989.8	2004.5	1987.4	1934.8	1821.1	1680.6	1491.1	1334.7
45°	1711.1	1774.7	1840.7	1905.5	1912.8	1874.9	1780.8	1636.6	1463.0	1287.0	1137.9
47.5°	1580.4	1663.5	1735.6	1808.9	1799.1	1735.6	1609.7	1445.9	1262.6	1096.3	976.6
50°	1433.7	1531.5	1612.1	1681.8	1661.0	1573.0	1425.1	1254.0	1071.9	930.1	831.1
52.5°	1277.2	1389.7	1470.4	1526.6	1498.5	1393.4	1230.8	1067.0	917.9	788.3	722.3
55°	1114.7	1228.4	1311.5	1355.5	1318.8	1205.1	1045.0	895.9	755.3	671.0	631.9
57.5°	957.0	1063.3	1141.6	1177.0	1130.6	1016.9	869.0	743.1	641.7	570.8	551.2
60°	805.5	892.2	966.8	993.7	943.6	838.5	711.3	611.1	536.6	487.7	477.9
62.5°	664.9	735.8	794.5	815.2	766.3	684.5	574.5	499.9	447.3	422.9	410.7
65°	548.8	590.3	650.2	646.6	617.2	541.5	460.8	408.2	374.0	358.1	350.8
67.5°	431.5	469.3	507.2	512.1	475.5	422.9	370.3	332.4	314.1	305.6	301.9
70°	333.7	361.8	385.0	378.9	359.3	326.3	293.3	272.6	265.2	261.6	261.6
72.5°	259.1	273.8	284.8	277.4	265.2	248.1	232.2	223.7	224.9	227.3	229.8
75°	200.4	204.1	206.6	199.2	196.8	185.8	184.6	185.8	193.1	200.4	204.1
77.5°	154.0	149.1	145.4	138.1	139.3	138.1	144.2	154.0	165.0	176.0	185.8
80°	118.6	107.6	99.0	91.7	95.3	101.4	113.7	128.3	143.0	155.2	167.4
82.5°	91.7	75.8	63.6	56.2	63.6	73.3	89.2	107.6	124.7	138.1	151.6
85°	70.9	52.6	37.9	30.6	37.9	52.6	69.7	90.4	108.8	123.4	136.9
87.5°	55.0	37.9	20.8	12.2	20.8	36.7	56.2	75.8	94.1	111.2	124.7
90°	44.0	25.7	9.8	2.4	11.0	25.7	44.0	63.6	81.9	100.2	113.7
92.5°	35.4	18.3	4.9	0.0	6.1	19.6	36.7	55.0	73.3	90.4	103.9
95°	29.3	14.7	3.7	0.0	4.9	14.7	29.3	47.7	64.8	81.9	92.9
97.5°	24.4	11.0	2.4	0.0	2.4	12.2	24.4	40.3	57.4	73.3	84.3
100°	20.8	9.8	2.4	0.0	2.4	9.8	20.8	35.4	50.1	64.8	75.8
102.5°	17.1	7.3	1.2	1.2	1.2	7.3	18.3	30.6	44.0	57.4	68.4
105°	15.9	6.1	1.2	1.2	1.2	6.1	15.9	26.9	39.1	51.3	61.1
107.5°	13.4	4.9	1.2	1.2	1.2	4.9	13.4	23.2	35.4	46.4	55.0
110°	11.0	4.9	1.2	1.2	1.2	4.9	11.0	20.8	30.6	40.3	48.9



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.8	3.7	1.2	1.2	1.2	3.7	9.8	18.3	26.9	36.7	44.0
115°	8.6	3.7	1.2	1.2	1.2	3.7	8.6	15.9	23.2	31.8	39.1
117.5°	7.3	3.7	1.2	1.2	1.2	2.4	7.3	13.4	20.8	28.1	35.4
120°	6.1	2.4	1.2	1.2	1.2	2.4	6.1	12.2	18.3	24.4	30.6
122.5°	6.1	2.4	1.2	1.2	1.2	2.4	4.9	9.8	15.9	20.8	26.9
125°	4.9	2.4	1.2	1.2	1.2	1.2	4.9	8.6	13.4	18.3	23.2
127.5°	4.9	2.4	1.2	1.2	1.2	1.2	3.7	7.3	11.0	15.9	20.8
130°	3.7	2.4	1.2	1.2	1.2	1.2	2.4	6.1	9.8	13.4	17.1
132.5°	3.7	2.4	1.2	1.2	1.2	1.2	2.4	4.9	7.3	11.0	14.7
135°	3.7	1.2	1.2	1.2	1.2	1.2	1.2	3.7	6.1	8.6	11.0
137.5°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	4.9	6.1	9.8
140°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.7	4.9	7.3
142.5°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.7	6.1
145°	2.4	1.2	1.2	2.4	2.4	1.2	1.2	2.4	2.4	3.7	4.9
147.5°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.7
150°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.7
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2378.5	2350.4	2365.0	2360.1	2365.0	2377.3	2376.0	2372.4	2374.8	2368.7	2362.6
5°	2373.6	2345.5	2360.1	2354.0	2360.1	2372.4	2369.9	2366.3	2369.9	2362.6	2356.5
7.5°	2367.5	2341.8	2358.9	2357.7	2368.7	2384.6	2385.8	2385.8	2394.4	2383.4	2378.5
10°	2367.5	2354.0	2377.3	2385.8	2413.9	2434.7	2437.1	2442.0	2456.7	2454.3	2442.0
12.5°	2393.1	2390.7	2424.9	2445.7	2471.4	2500.7	2516.6	2521.5	2531.3	2523.9	2519.0
15°	2426.1	2438.4	2476.3	2499.5	2527.6	2549.6	2553.3	2555.7	2563.0	2552.0	2543.5
17.5°	2470.1	2477.5	2508.0	2517.8	2536.1	2539.8	2534.9	2522.7	2522.7	2498.3	2490.9
20°	2490.9	2487.3	2499.5	2483.6	2476.3	2454.3	2433.5	2410.3	2409.0	2383.4	2380.9
22.5°	2472.6	2448.1	2422.5	2383.4	2366.3	2334.5	2306.4	2292.9	2284.4	2251.4	2242.8
25°	2407.8	2347.9	2310.0	2263.6	2222.0	2185.4	2158.5	2130.4	2103.5	2076.6	2064.4
27.5°	2295.4	2239.1	2178.0	2113.3	2055.8	1999.6	1954.4	1926.3	1900.6	1865.1	1846.8
30°	2157.3	2079.0	2011.8	1949.5	1855.4	1786.9	1749.0	1692.8	1673.2	1657.4	1623.1
32.5°	1994.7	1900.6	1808.9	1724.6	1628.0	1564.5	1514.4	1472.8	1460.6	1419.0	1409.2
35°	1815.0	1691.6	1587.7	1504.6	1434.9	1357.9	1316.4	1288.2	1263.8	1235.7	1230.8
37.5°	1603.6	1492.4	1375.0	1301.7	1246.7	1180.7	1148.9	1129.3	1118.3	1097.6	1093.9
40°	1390.9	1279.7	1199.0	1125.7	1091.5	1056.0	1032.8	1024.2	1019.3	1012.0	1004.7
42.5°	1197.8	1100.0	1042.6	993.7	979.0	961.9	955.8	960.7	955.8	953.3	952.1
45°	1034.0	959.5	919.1	904.5	900.8	895.9	900.8	909.3	910.6	908.1	908.1
47.5°	884.9	849.5	832.3	834.8	840.9	844.6	853.1	864.1	866.6	860.5	862.9
50°	787.1	766.3	762.7	772.5	785.9	790.8	800.6	809.1	807.9	805.5	803.0
52.5°	695.5	689.3	699.1	708.9	723.6	726.0	729.7	733.3	732.1	727.2	724.8
55°	618.5	623.3	631.9	635.6	646.6	645.3	646.6	646.6	641.7	639.2	635.6
57.5°	548.8	550.0	554.9	556.1	562.2	559.8	558.6	556.1	548.8	547.6	543.9
60°	477.9	475.5	486.5	477.9	482.8	477.9	476.7	470.6	463.2	462.0	459.6
62.5°	410.7	405.8	413.1	409.5	411.9	407.0	404.6	397.2	391.1	389.9	388.7
65°	350.8	348.3	355.7	354.4	356.9	350.8	348.3	343.4	338.6	337.3	336.1
67.5°	300.7	306.8	310.4	310.4	312.9	311.7	305.6	304.3	303.1	298.2	298.2
70°	264.0	267.7	275.0	276.2	275.0	277.4	272.6	271.3	270.1	267.7	266.4
72.5°	234.7	239.6	246.9	248.1	246.9	246.9	244.4	243.2	243.2	239.6	239.6
75°	211.4	217.6	223.7	223.7	223.7	221.2	218.8	218.8	216.3	215.1	212.7
77.5°	191.9	199.2	204.1	202.9	201.7	199.2	199.2	195.6	191.9	191.9	189.4
80°	177.2	182.1	185.8	184.6	183.3	179.7	178.4	174.8	172.3	168.7	168.7
82.5°	161.3	167.4	169.9	168.7	166.2	162.6	161.3	158.9	156.4	155.2	152.8
85°	147.9	154.0	155.2	152.8	150.3	147.9	146.7	145.4	144.2	141.8	141.8
87.5°	134.4	140.6	140.6	139.3	136.9	135.7	134.4	133.2	132.0	130.8	129.6
90°	123.4	128.3	128.3	127.1	125.9	124.7	123.4	122.2	121.0	119.8	119.8
92.5°	112.4	117.3	117.3	116.1	114.9	113.7	113.7	112.4	111.2	110.0	108.8
95°	102.7	107.6	107.6	107.6	106.3	105.1	105.1	103.9	102.7	102.7	101.4
97.5°	92.9	97.8	97.8	97.8	96.6	95.3	95.3	94.1	94.1	94.1	92.9
100°	84.3	88.0	89.2	89.2	88.0	88.0	88.0	86.8	86.8	86.8	85.6
102.5°	75.8	79.4	81.9	81.9	81.9	80.7	80.7	80.7	80.7	80.7	79.4
105°	68.4	72.1	74.6	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
107.5°	62.3	66.0	68.4	69.7	70.9	70.9	72.1	72.1	72.1	72.1	72.1
110°	56.2	59.9	63.6	64.8	66.0	67.2	67.2	68.4	67.2	67.2	67.2



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	50.1	55.0	57.4	59.9	61.1	62.3	63.6	63.6	63.6	63.6	63.6
115°	45.2	50.1	52.6	55.0	57.4	58.7	58.7	59.9	59.9	59.9	58.7
117.5°	40.3	45.2	47.7	50.1	51.3	53.8	55.0	55.0	55.0	55.0	53.8
120°	36.7	40.3	42.8	45.2	47.7	48.9	50.1	50.1	50.1	50.1	50.1
122.5°	31.8	35.4	39.1	41.6	42.8	44.0	45.2	45.2	45.2	45.2	45.2
125°	28.1	31.8	34.2	36.7	37.9	40.3	40.3	40.3	40.3	40.3	40.3
127.5°	24.4	28.1	30.6	33.0	34.2	35.4	36.7	36.7	36.7	36.7	36.7
130°	20.8	24.4	26.9	29.3	30.6	31.8	31.8	33.0	33.0	33.0	33.0
132.5°	18.3	20.8	23.2	25.7	26.9	28.1	28.1	29.3	29.3	29.3	29.3
135°	14.7	18.3	19.6	22.0	23.2	24.4	24.4	25.7	25.7	25.7	25.7
137.5°	12.2	14.7	17.1	19.6	20.8	20.8	22.0	22.0	23.2	23.2	23.2
140°	9.8	11.0	14.7	15.9	17.1	18.3	19.6	19.6	19.6	19.6	19.6
142.5°	7.3	9.8	11.0	13.4	14.7	15.9	17.1	17.1	17.1	17.1	17.1
145°	6.1	7.3	8.6	11.0	12.2	13.4	14.7	14.7	14.7	14.7	14.7
147.5°	4.9	6.1	7.3	8.6	9.8	11.0	12.2	12.2	12.2	12.2	12.2
150°	3.7	4.9	6.1	6.1	7.3	8.6	9.8	11.0	11.0	11.0	11.0
152.5°	3.7	3.7	4.9	4.9	6.1	7.3	8.6	8.6	8.6	8.6	8.6
155°	2.4	3.7	3.7	3.7	4.9	4.9	6.1	7.3	7.3	7.3	7.3
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-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2366.3	2371.1	2368.7	2365.0	2363.8	2369.9	2363.8	2335.7	2346.7	2347.9	2356.5
5°	2362.6	2366.3	2363.8	2361.4	2357.7	2365.0	2357.7	2328.4	2339.4	2340.6	2349.1
7.5°	2387.0	2388.3	2388.3	2382.1	2372.4	2376.0	2366.3	2333.3	2339.4	2339.4	2345.5
10°	2448.1	2450.6	2454.3	2438.4	2426.1	2416.4	2402.9	2362.6	2361.4	2351.6	2351.6
12.5°	2527.6	2521.5	2515.4	2508.0	2498.3	2486.0	2466.5	2418.8	2402.9	2387.0	2371.1
15°	2550.8	2548.4	2547.1	2543.5	2537.4	2533.7	2519.0	2471.4	2448.1	2428.6	2400.5
17.5°	2489.7	2494.6	2510.5	2511.7	2519.0	2533.7	2531.3	2498.3	2477.5	2468.9	2434.7
20°	2379.7	2380.9	2400.5	2409.0	2440.8	2465.3	2483.6	2479.9	2475.0	2484.8	2459.1
22.5°	2247.7	2256.3	2277.0	2290.5	2321.0	2349.1	2378.5	2394.4	2420.0	2460.4	2455.5
25°	2068.0	2079.0	2108.4	2130.4	2173.1	2215.9	2255.0	2283.1	2313.7	2390.7	2416.4
27.5°	1852.9	1870.0	1907.9	1929.9	1989.8	2033.8	2090.0	2145.0	2187.8	2275.8	2328.4
30°	1626.8	1641.5	1681.8	1712.4	1763.7	1823.6	1894.5	1972.7	2043.6	2132.8	2198.8
32.5°	1415.4	1431.2	1464.2	1491.1	1548.6	1598.7	1676.9	1773.5	1839.5	1962.9	2050.9
35°	1230.8	1245.5	1268.7	1291.9	1339.6	1390.9	1458.1	1552.2	1636.6	1764.9	1876.1
37.5°	1101.2	1103.7	1117.1	1130.6	1166.0	1205.1	1257.7	1340.8	1419.0	1557.1	1679.4
40°	1008.3	1008.3	1015.7	1019.3	1035.2	1058.5	1091.5	1156.2	1221.0	1326.1	1475.2
42.5°	950.9	948.5	948.5	949.7	948.5	959.5	979.0	1009.6	1067.0	1153.8	1269.9
45°	908.1	903.2	899.6	891.0	886.1	886.1	887.3	898.3	931.3	987.6	1081.7
47.5°	860.5	859.2	853.1	843.3	834.8	828.7	818.9	815.2	825.0	856.8	920.3
50°	805.5	799.3	793.2	785.9	776.1	770.0	751.7	752.9	744.3	759.0	792.0
52.5°	724.8	719.9	717.5	711.3	707.7	705.2	690.6	675.9	672.2	674.7	686.9
55°	635.6	638.0	628.2	633.1	631.9	620.9	614.8	603.8	600.1	598.9	605.0
57.5°	542.7	545.1	539.0	543.9	543.9	537.8	534.1	534.1	525.6	518.2	526.8
60°	458.3	453.5	457.1	463.2	463.2	459.6	457.1	457.1	451.0	448.6	454.7
62.5°	389.9	385.0	388.7	394.8	396.0	393.6	391.1	391.1	383.8	383.8	388.7
65°	337.3	338.6	337.3	342.2	342.2	343.4	341.0	338.6	330.0	333.7	332.4
67.5°	299.4	298.2	298.2	303.1	301.9	304.3	301.9	298.2	292.1	287.2	286.0
70°	267.7	266.4	266.4	268.9	270.1	270.1	268.9	266.4	257.9	253.0	249.3
72.5°	239.6	238.3	239.6	240.8	242.0	243.2	242.0	239.6	232.2	226.1	220.0
75°	213.9	212.7	216.3	216.3	217.6	217.6	218.8	217.6	211.4	204.1	196.8
77.5°	188.2	189.4	193.1	194.3	196.8	198.0	199.2	199.2	193.1	187.0	177.2
80°	167.4	169.9	172.3	173.6	176.0	179.7	180.9	182.1	177.2	171.1	160.1
82.5°	152.8	154.0	156.4	157.7	161.3	162.6	163.8	166.2	163.8	157.7	145.4
85°	140.6	141.8	144.2	144.2	146.7	149.1	150.3	151.6	150.3	144.2	132.0
87.5°	129.6	130.8	132.0	133.2	134.4	135.7	136.9	138.1	136.9	130.8	119.8
90°	119.8	119.8	121.0	121.0	122.2	123.4	125.9	125.9	124.7	119.8	108.8
92.5°	108.8	110.0	110.0	111.2	112.4	113.7	114.9	114.9	113.7	108.8	99.0
95°	101.4	101.4	102.7	102.7	103.9	103.9	105.1	105.1	103.9	99.0	89.2
97.5°	92.9	92.9	92.9	92.9	94.1	94.1	95.3	95.3	94.1	89.2	80.7
100°	85.6	85.6	85.6	85.6	85.6	86.8	86.8	86.8	85.6	80.7	72.1
102.5°	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	77.0	73.3	64.8
105°	75.8	75.8	75.8	74.6	74.6	74.6	73.3	73.3	69.7	66.0	58.7
107.5°	70.9	70.9	70.9	69.7	69.7	68.4	67.2	67.2	63.6	59.9	52.6
110°	67.2	67.2	67.2	66.0	64.8	63.6	62.3	61.1	57.4	52.6	46.4



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	63.6	63.6	62.3	62.3	61.1	59.9	57.4	56.2	52.6	47.7	41.6
115°	58.7	58.7	58.7	57.4	56.2	55.0	53.8	51.3	47.7	42.8	36.7
117.5°	53.8	53.8	53.8	52.6	51.3	50.1	48.9	46.4	42.8	37.9	33.0
120°	48.9	48.9	48.9	47.7	46.4	45.2	44.0	41.6	37.9	34.2	28.1
122.5°	45.2	45.2	44.0	42.8	41.6	40.3	39.1	36.7	34.2	29.3	24.4
125°	40.3	40.3	39.1	39.1	37.9	36.7	35.4	33.0	29.3	25.7	22.0
127.5°	36.7	35.4	35.4	35.4	34.2	33.0	30.6	29.3	25.7	22.0	18.3
130°	31.8	31.8	31.8	30.6	30.6	29.3	26.9	24.4	22.0	19.6	15.9
132.5°	28.1	28.1	28.1	28.1	26.9	25.7	23.2	22.0	19.6	15.9	13.4
135°	25.7	25.7	24.4	24.4	23.2	22.0	20.8	18.3	15.9	13.4	11.0
137.5°	22.0	22.0	22.0	20.8	20.8	19.6	17.1	15.9	14.7	12.2	9.8
140°	19.6	19.6	18.3	18.3	17.1	17.1	15.9	13.4	12.2	9.8	8.6
142.5°	17.1	17.1	15.9	15.9	14.7	14.7	13.4	12.2	9.8	8.6	6.1
145°	14.7	14.7	13.4	13.4	13.4	12.2	11.0	9.8	8.6	7.3	6.1
147.5°	12.2	12.2	12.2	11.0	11.0	9.8	9.8	8.6	7.3	6.1	4.9
150°	11.0	11.0	9.8	9.8	9.8	8.6	7.3	7.3	6.1	4.9	3.7
152.5°	8.6	8.6	8.6	8.6	7.3	7.3	6.1	6.1	4.9	3.7	3.7
155°	7.3	7.3	7.3	6.1	6.1	6.1	4.9	4.9	3.7	3.7	2.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2352.8	2351.6	2362.6	2361.4	2346.7	2368.7	2383.4
5°	2346.7	2345.5	2355.3	2357.7	2341.8	2365.0	2380.9
7.5°	2341.8	2340.6	2351.6	2355.3	2339.4	2360.1	2377.3
10°	2343.0	2336.9	2346.7	2349.1	2334.5	2356.5	2371.1
12.5°	2351.6	2336.9	2340.6	2340.6	2327.1	2346.7	2362.6
15°	2372.4	2341.8	2336.9	2333.3	2316.1	2334.5	2350.4
17.5°	2395.6	2354.0	2336.9	2324.7	2303.9	2319.8	2336.9
20°	2418.8	2367.5	2339.4	2319.8	2291.7	2306.4	2318.6
22.5°	2429.8	2379.7	2341.8	2312.5	2277.0	2284.4	2297.8
25°	2415.1	2374.8	2336.9	2301.5	2258.7	2259.9	2270.9
27.5°	2361.4	2350.4	2325.9	2290.5	2244.0	2237.9	2246.5
30°	2269.7	2300.3	2301.5	2275.8	2226.9	2214.7	2218.4
32.5°	2141.4	2209.8	2250.1	2245.3	2202.5	2185.4	2187.8
35°	1993.5	2079.0	2167.0	2196.4	2165.8	2152.4	2147.5
37.5°	1816.2	1931.1	2048.5	2120.6	2115.7	2107.1	2102.3
40°	1620.7	1758.8	1898.1	2013.0	2048.5	2048.5	2050.9
42.5°	1411.7	1573.0	1725.8	1871.2	1954.4	1972.7	1980.0
45°	1210.0	1372.6	1538.8	1706.2	1817.5	1874.9	1895.7
47.5°	1026.7	1190.5	1348.1	1531.5	1679.4	1753.9	1786.9
50°	870.2	992.5	1158.7	1340.8	1502.1	1593.8	1658.6
52.5°	740.7	836.0	981.5	1151.3	1313.9	1439.8	1499.7
55°	631.9	696.7	820.1	966.8	1122.0	1252.8	1322.5
57.5°	540.2	591.6	675.9	798.1	928.9	1058.5	1133.0
60°	459.6	495.0	552.5	649.0	760.2	871.5	943.6
62.5°	389.9	413.1	451.0	521.9	608.7	695.5	762.7
65°	336.1	345.9	366.7	410.7	476.7	542.7	600.1
67.5°	283.6	289.7	305.6	332.4	365.4	413.1	451.0
70°	244.4	244.4	245.7	261.6	278.7	309.2	336.1
72.5°	212.7	209.0	201.7	205.3	209.0	226.1	243.2
75°	187.0	178.4	166.2	161.3	158.9	161.3	171.1
77.5°	165.0	152.8	138.1	125.9	116.1	112.4	121.0
80°	146.7	132.0	114.9	99.0	83.1	74.6	78.2
82.5°	132.0	113.7	95.3	77.0	58.7	46.4	46.4
85°	116.1	99.0	79.4	59.9	41.6	25.7	23.2
87.5°	105.1	86.8	66.0	47.7	29.3	13.4	7.3
90°	94.1	75.8	56.2	37.9	20.8	6.1	0.0
92.5°	84.3	67.2	48.9	30.6	14.7	3.7	0.0
95°	75.8	59.9	41.6	25.7	12.2	2.4	1.2
97.5°	67.2	52.6	36.7	20.8	8.6	2.4	1.2
100°	61.1	46.4	31.8	17.1	7.3	1.2	1.2
102.5°	53.8	41.6	26.9	14.7	6.1	1.2	1.2
105°	47.7	36.7	23.2	12.2	4.9	1.2	1.2
107.5°	42.8	31.8	20.8	11.0	4.9	1.2	1.2
110°	37.9	28.1	18.3	9.8	3.7	1.2	1.2



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	34.2	24.4	15.9	8.6	2.4	1.2	1.2
115°	29.3	22.0	13.4	7.3	2.4	1.2	1.2
117.5°	25.7	18.3	12.2	6.1	2.4	1.2	1.2
120°	22.0	15.9	9.8	4.9	1.2	1.2	1.2
122.5°	19.6	13.4	8.6	4.9	1.2	1.2	1.2
125°	17.1	12.2	7.3	3.7	1.2	1.2	1.2
127.5°	14.7	9.8	6.1	2.4	1.2	1.2	1.2
130°	12.2	8.6	4.9	2.4	1.2	1.2	1.2
132.5°	9.8	7.3	4.9	2.4	1.2	1.2	1.2
135°	8.6	6.1	3.7	2.4	1.2	1.2	1.2
137.5°	7.3	4.9	2.4	2.4	2.4	1.2	1.2
140°	6.1	3.7	2.4	2.4	2.4	2.4	1.2
142.5°	4.9	3.7	2.4	2.4	2.4	2.4	1.2
145°	3.7	2.4	2.4	2.4	2.4	2.4	1.2
147.5°	3.7	2.4	2.4	2.4	2.4	2.4	1.2
150°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)