

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-LD5-68SL-LC-UNV-L935-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-LD5-68SL-LC-UNV-L935-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

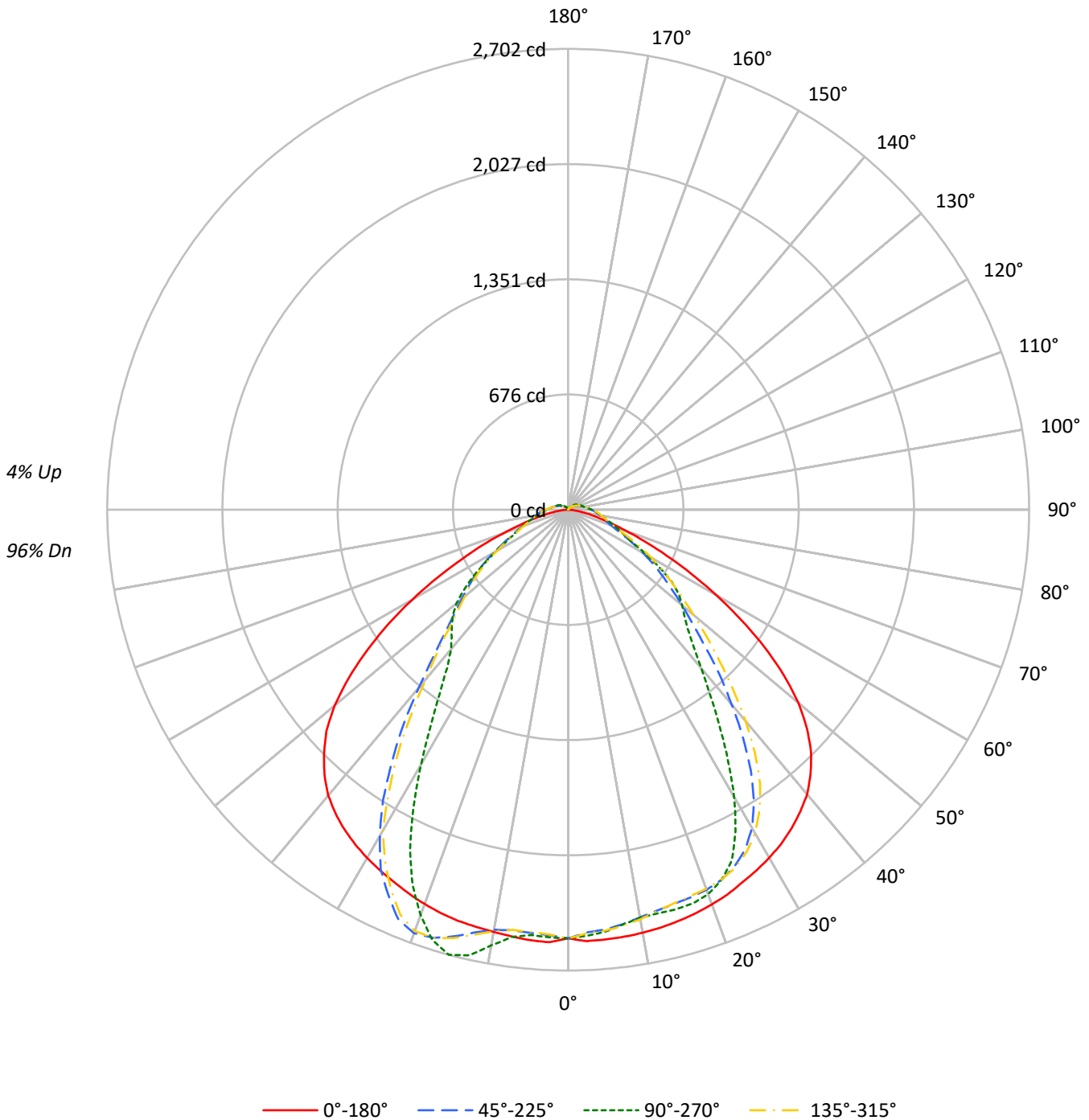
Lumens per Lamp: N/A  
Luminaire Lumens: 5992.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 50  
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-LD5-68SL-LC-UNV-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-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°	10156	10156	10156	10156
5°	10244	9753	10265	9830
10°	10305	9348	10284	9982
15°	10400	9223	10394	10269
20°	10530	9076	10519	9568
25°	10676	8610	10671	8320
30°	10896	7462	10902	6611
35°	11130	6035	11162	5107
40°	11342	4859	11389	4281
45°	11329	4116	11387	4008
50°	10872	3789	11024	3705
55°	9680	3406	9921	3096
60°	7886	2607	8305	2391
65°	5897	1994	6353	1891
70°	4044	1721	4559	1646
75°	2682	1553	3121	1469
80°	1776	1448	2082	1333
85°	972	1445	1278	1320



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.8	4.0
10°-20°	710.4	11.9
20°-30°	1080.0	18.0
30°-40°	1158.5	19.3
40°-50°	1005.5	16.8
50°-60°	745.2	12.4
60°-70°	427.0	7.1
70°-80°	236.4	3.9
80°-90°	144.0	2.4
90°-100°	93.6	1.6
100°-110°	62.7	1.0
110°-120°	42.3	0.7
120°-130°	26.0	0.4
130°-140°	13.7	0.2
140°-150°	6.2	0.1
150°-160°	1.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2029.1	33.9
0°-40°	3187.6	53.2
0°-60°	4938.3	82.4
0°-90°	5745.6	95.9
90°-120°	198.7	3.3
90°-150°	244.6	4.1
90°-180°	246.0	4.1
0°-180°	5992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2514	2514	2514	2514	2514	
5°	2529	2484	2534	2503	2529	241
15°	2497	2426	2495	2702	2497	706
25°	2412	2269	2411	2193	2412	1115
35°	2281	1545	2288	1307	2281	1428
45°	2014	991	2024	965	2014	1542
55°	1405	743	1440	675	1405	1246
65°	638	376	687	357	638	643
75°	182	239	212	226	182	208
85°	25	165	32	151	25	32
90°	0	138	3	127	0	1
95°	1	113	0	108	1	1
105°	1	84	1	80	1	1
115°	1	69	1	62	1	1
125°	1	52	1	43	1	1
135°	1	32	1	27	1	1
145°	1	20	3	16	1	1
155°	3	9	3	8	3	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#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2531.7	2525.2	2522.6	2517.4	2521.3	2536.9	2526.5	2509.6	2510.9	2481.0	2496.6
5°	2529.1	2521.3	2517.4	2512.2	2514.8	2529.1	2518.7	2501.8	2500.5	2470.6	2484.9
7.5°	2525.2	2517.4	2510.9	2507.0	2508.3	2520.0	2507.0	2487.5	2483.6	2451.2	2464.2
10°	2518.7	2513.5	2504.4	2497.9	2496.6	2509.6	2488.8	2469.4	2460.3	2426.5	2439.5
12.5°	2509.6	2501.8	2492.7	2481.0	2479.7	2487.5	2470.6	2443.4	2434.3	2407.0	2421.3
15°	2496.6	2487.5	2477.1	2464.2	2457.7	2462.9	2442.1	2417.4	2416.1	2392.8	2412.2
17.5°	2482.3	2469.4	2457.7	2439.5	2430.4	2434.3	2417.4	2395.3	2397.9	2383.7	2405.7
20°	2462.9	2448.6	2430.4	2412.2	2399.2	2405.7	2394.0	2377.2	2381.1	2370.7	2390.2
22.5°	2440.8	2421.3	2399.2	2378.5	2368.1	2377.2	2368.1	2353.8	2355.1	2348.6	2360.3
25°	2412.2	2390.2	2364.2	2338.2	2333.0	2339.5	2334.3	2322.6	2317.5	2307.1	2312.3
27.5°	2386.3	2361.6	2329.1	2301.9	2292.8	2305.8	2294.1	2274.6	2260.3	2246.0	2235.7
30°	2356.4	2326.5	2290.2	2259.0	2251.2	2256.4	2239.6	2209.7	2172.0	2153.9	2125.3
32.5°	2323.9	2285.0	2239.6	2204.5	2199.3	2195.4	2164.3	2121.4	2063.0	2026.6	1982.5
35°	2281.1	2238.3	2183.7	2140.9	2133.1	2111.0	2060.4	2003.3	1928.0	1865.6	1790.3
37.5°	2233.1	2182.4	2125.3	2068.2	2046.1	2002.0	1930.6	1870.8	1756.6	1681.3	1590.4
40°	2178.5	2117.5	2047.4	1978.6	1942.2	1870.8	1789.0	1700.8	1590.4	1489.1	1412.5
42.5°	2103.2	2038.3	1955.2	1878.6	1816.3	1721.5	1625.5	1500.8	1399.6	1313.9	1236.0
45°	2013.6	1935.8	1839.7	1747.5	1668.3	1555.4	1442.4	1317.8	1233.4	1133.4	1080.2
47.5°	1898.1	1813.7	1711.1	1608.6	1504.7	1380.1	1261.9	1142.5	1058.1	986.7	947.8
50°	1761.8	1683.9	1570.9	1448.9	1334.6	1204.8	1086.7	997.1	915.3	871.2	841.3
52.5°	1593.0	1520.3	1404.8	1272.3	1162.0	1034.7	927.0	854.3	795.9	763.4	753.0
55°	1404.8	1341.1	1226.9	1103.5	990.6	873.8	792.0	728.3	690.7	671.2	672.5
57.5°	1203.5	1154.2	1046.4	936.1	829.6	741.3	667.3	616.7	588.1	586.8	590.7
60°	1002.3	965.9	872.5	777.7	684.2	612.8	558.3	523.2	505.0	506.3	505.0
62.5°	810.1	776.4	708.9	631.0	557.0	508.9	459.6	445.3	429.7	428.4	428.4
65°	637.5	611.5	557.0	501.1	445.3	414.2	389.5	372.6	360.9	358.3	359.6
67.5°	479.1	468.7	431.0	393.4	358.3	338.9	318.1	314.2	305.1	305.1	307.7
70°	357.0	349.2	328.5	306.4	292.1	279.1	268.7	268.7	267.4	266.1	272.6
72.5°	258.4	259.7	253.2	236.3	235.0	232.4	229.8	233.7	235.0	238.9	246.7
75°	181.8	185.7	185.7	183.1	188.3	194.7	198.6	205.1	212.9	218.1	227.2
77.5°	128.5	128.5	135.0	142.8	153.2	164.9	175.3	184.4	194.7	201.2	209.0
80°	83.1	87.0	97.4	111.7	125.9	141.5	155.8	167.5	177.9	188.3	193.4
82.5°	49.3	55.8	68.8	87.0	105.2	124.6	138.9	153.2	164.9	175.3	179.2
85°	24.7	33.8	49.3	68.8	88.3	109.1	127.2	140.2	153.2	162.3	167.5
87.5°	7.8	18.2	35.1	53.2	74.0	94.8	114.2	128.5	140.2	148.0	153.2
90°	0.0	9.1	24.7	44.1	63.6	84.4	102.6	118.1	129.8	136.3	140.2
92.5°	0.0	5.2	19.5	36.4	54.5	75.3	93.5	107.8	118.1	124.6	127.2
95°	1.3	3.9	14.3	29.9	48.0	67.5	84.4	97.4	107.8	114.2	115.5
97.5°	1.3	2.6	11.7	24.7	41.5	59.7	76.6	89.6	97.4	103.9	105.2
100°	1.3	2.6	9.1	22.1	36.4	53.2	68.8	80.5	89.6	94.8	96.1
102.5°	1.3	1.3	7.8	18.2	32.5	46.7	61.0	72.7	80.5	85.7	88.3
105°	1.3	1.3	6.5	15.6	28.6	41.5	54.5	66.2	72.7	77.9	80.5
107.5°	1.3	1.3	5.2	13.0	24.7	36.4	49.3	58.4	66.2	71.4	74.0
110°	1.3	1.3	3.9	11.7	20.8	32.5	42.8	51.9	59.7	64.9	67.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.3	1.3	3.9	10.4	18.2	28.6	37.7	46.7	53.2	58.4	62.3
115°	1.3	1.3	3.9	9.1	16.9	24.7	33.8	41.5	48.0	53.2	57.1
117.5°	1.3	1.3	3.9	7.8	14.3	22.1	29.9	37.7	42.8	48.0	51.9
120°	1.3	1.3	2.6	6.5	13.0	19.5	26.0	32.5	38.9	44.1	48.0
122.5°	1.3	1.3	2.6	6.5	10.4	16.9	23.4	28.6	35.1	38.9	42.8
125°	1.3	1.3	2.6	5.2	9.1	15.6	20.8	26.0	29.9	35.1	38.9
127.5°	1.3	1.3	2.6	5.2	7.8	13.0	18.2	23.4	27.3	31.2	33.8
130°	1.3	1.3	2.6	3.9	6.5	10.4	15.6	19.5	24.7	27.3	29.9
132.5°	1.3	1.3	1.3	3.9	5.2	7.8	11.7	16.9	20.8	24.7	26.0
135°	1.3	1.3	1.3	2.6	5.2	6.5	9.1	13.0	16.9	20.8	23.4
137.5°	1.3	1.3	1.3	2.6	3.9	6.5	7.8	10.4	14.3	16.9	20.8
140°	1.3	1.3	1.3	2.6	3.9	5.2	6.5	9.1	11.7	14.3	16.9
142.5°	1.3	1.3	1.3	2.6	2.6	3.9	5.2	7.8	9.1	11.7	14.3
145°	1.3	1.3	1.3	2.6	2.6	3.9	5.2	6.5	7.8	9.1	11.7
147.5°	1.3	1.3	1.3	2.6	2.6	2.6	3.9	5.2	6.5	7.8	9.1
150°	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.2	6.5	7.8
152.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	3.9	5.2	6.5
155°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.2	5.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2491.4	2494.0	2509.6	2508.3	2505.7	2503.1	2503.1	2500.5	2503.1	2509.6	2507.0
5°	2478.4	2482.3	2494.0	2492.7	2490.1	2488.8	2487.5	2483.6	2486.2	2495.3	2492.7
7.5°	2455.1	2459.0	2469.4	2464.2	2460.3	2462.9	2456.4	2452.5	2457.7	2466.8	2465.5
10°	2430.4	2433.0	2446.0	2443.4	2436.9	2438.2	2431.7	2429.1	2435.6	2440.8	2442.1
12.5°	2413.5	2422.6	2434.3	2433.0	2431.7	2433.0	2426.5	2423.9	2427.8	2433.0	2431.7
15°	2409.6	2421.3	2434.3	2434.3	2435.6	2436.9	2430.4	2426.5	2430.4	2434.3	2433.0
17.5°	2405.7	2420.0	2431.7	2430.4	2431.7	2434.3	2423.9	2421.3	2426.5	2431.7	2429.1
20°	2392.8	2405.7	2413.5	2410.9	2410.9	2412.2	2399.2	2399.2	2407.0	2410.9	2412.2
22.5°	2356.4	2372.0	2372.0	2365.5	2365.5	2360.3	2356.4	2348.6	2357.7	2364.2	2369.4
25°	2301.9	2308.4	2300.6	2286.3	2278.5	2272.0	2253.8	2269.4	2269.4	2288.9	2295.4
27.5°	2225.3	2211.0	2188.9	2159.1	2152.6	2131.8	2120.1	2124.0	2130.5	2157.8	2178.5
30°	2099.3	2056.5	2018.8	2005.9	1977.3	1956.5	1935.8	1946.1	1957.8	1973.4	2016.2
32.5°	1933.2	1891.6	1830.6	1808.5	1778.7	1752.7	1728.0	1743.6	1764.4	1774.8	1821.5
35°	1742.3	1693.0	1637.1	1599.5	1568.3	1554.1	1522.9	1545.0	1567.0	1574.8	1615.1
37.5°	1539.8	1489.1	1439.8	1407.3	1377.5	1368.4	1347.6	1363.2	1380.1	1391.8	1425.5
40°	1347.6	1300.9	1263.2	1241.2	1220.4	1212.6	1204.8	1211.3	1224.3	1233.4	1259.3
42.5°	1182.7	1145.1	1119.1	1106.1	1091.9	1081.5	1082.8	1085.4	1091.9	1111.3	1123.0
45°	1038.6	1016.6	999.7	997.1	988.0	986.7	985.4	990.6	994.5	1006.2	1015.3
47.5°	923.1	914.0	910.1	915.3	919.2	914.0	916.6	923.1	930.9	930.9	929.6
50°	832.2	834.8	840.0	851.7	859.5	862.1	864.7	872.5	873.8	876.3	872.5
52.5°	758.2	760.8	775.1	793.3	802.3	806.2	811.4	819.2	819.2	821.8	816.6
55°	682.9	686.8	701.1	719.3	727.0	732.2	737.4	742.6	746.5	751.7	747.8
57.5°	599.8	611.5	620.6	625.8	631.0	634.9	638.8	640.1	647.8	649.1	655.6
60°	511.5	514.1	523.2	521.9	518.0	528.4	523.2	532.3	541.4	553.1	554.4
62.5°	427.1	428.4	434.9	432.3	437.5	436.2	440.1	440.1	446.6	451.8	458.3
65°	360.9	362.2	367.4	367.4	366.1	370.0	373.9	376.5	376.5	380.4	385.6
67.5°	311.6	315.5	320.7	323.3	325.9	325.9	329.8	331.1	333.7	335.0	337.6
70°	277.8	283.0	288.2	290.8	292.1	294.7	296.0	296.0	298.6	299.9	302.5
72.5°	253.2	258.4	262.3	262.3	264.9	266.1	266.1	267.4	268.7	271.3	273.9
75°	232.4	236.3	238.9	237.6	237.6	237.6	238.9	238.9	241.5	244.1	246.7
77.5°	212.9	216.8	216.8	214.2	214.2	214.2	214.2	215.5	216.8	219.4	222.0
80°	198.6	198.6	197.3	197.3	194.7	193.4	193.4	194.7	194.7	197.3	201.2
82.5°	183.1	183.1	181.8	180.5	179.2	177.9	177.9	179.2	180.5	181.8	184.4
85°	168.8	168.8	166.2	166.2	164.9	164.9	164.9	164.9	166.2	167.5	170.1
87.5°	154.5	153.2	151.9	150.6	150.6	150.6	150.6	150.6	151.9	154.5	155.8
90°	140.2	138.9	137.6	137.6	136.3	136.3	137.6	137.6	138.9	140.2	141.5
92.5°	127.2	125.9	124.6	124.6	123.3	123.3	124.6	123.3	125.9	125.9	127.2
95°	115.5	114.2	113.0	113.0	113.0	113.0	113.0	113.0	114.2	114.2	115.5
97.5°	105.2	103.9	102.6	102.6	103.9	102.6	103.9	103.9	103.9	105.2	106.5
100°	96.1	94.8	94.8	96.1	94.8	94.8	96.1	96.1	96.1	96.1	97.4
102.5°	88.3	88.3	88.3	88.3	88.3	88.3	89.6	89.6	89.6	89.6	90.9
105°	80.5	81.8	81.8	81.8	83.1	83.1	83.1	84.4	84.4	84.4	84.4
107.5°	75.3	76.6	76.6	77.9	77.9	79.2	79.2	79.2	79.2	80.5	80.5
110°	70.1	71.4	72.7	74.0	74.0	75.3	75.3	75.3	75.3	75.3	75.3





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	64.9	66.2	67.5	70.1	71.4	71.4	71.4	71.4	72.7	72.7	71.4
115°	59.7	62.3	63.6	66.2	67.5	67.5	68.8	68.8	68.8	68.8	67.5
117.5°	54.5	58.4	59.7	62.3	63.6	63.6	64.9	64.9	64.9	64.9	63.6
120°	50.6	53.2	55.8	57.1	58.4	59.7	59.7	61.0	61.0	61.0	59.7
122.5°	46.7	49.3	51.9	53.2	54.5	55.8	55.8	55.8	55.8	55.8	55.8
125°	41.5	44.1	46.7	48.0	49.3	50.6	50.6	51.9	51.9	51.9	50.6
127.5°	37.7	40.2	41.5	44.1	45.4	45.4	46.7	46.7	46.7	46.7	45.4
130°	32.5	35.1	37.7	38.9	40.2	40.2	41.5	41.5	41.5	41.5	41.5
132.5°	28.6	31.2	32.5	35.1	35.1	36.4	36.4	37.7	37.7	37.7	36.4
135°	26.0	27.3	28.6	31.2	31.2	32.5	32.5	32.5	32.5	32.5	32.5
137.5°	23.4	24.7	26.0	27.3	27.3	28.6	28.6	28.6	28.6	29.9	28.6
140°	19.5	22.1	23.4	23.4	24.7	24.7	24.7	26.0	26.0	26.0	24.7
142.5°	16.9	18.2	19.5	20.8	22.1	22.1	22.1	22.1	23.4	22.1	22.1
145°	13.0	15.6	16.9	18.2	19.5	19.5	19.5	19.5	19.5	19.5	19.5
147.5°	10.4	11.7	14.3	15.6	15.6	16.9	16.9	16.9	16.9	16.9	16.9
150°	9.1	9.1	11.7	13.0	14.3	14.3	14.3	14.3	14.3	14.3	14.3
152.5°	6.5	7.8	9.1	10.4	11.7	11.7	11.7	11.7	11.7	11.7	11.7
155°	6.5	6.5	7.8	7.8	9.1	9.1	9.1	9.1	10.4	9.1	9.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2503.1	2501.8	2507.0	2501.8	2475.8	2486.2	2482.3	2496.6	2497.9	2501.8	2514.8
5°	2490.1	2490.1	2496.6	2491.4	2466.8	2477.1	2475.8	2490.1	2492.7	2495.3	2509.6
7.5°	2464.2	2465.5	2474.5	2470.6	2444.7	2460.3	2459.0	2475.8	2481.0	2486.2	2499.2
10°	2439.5	2438.2	2448.6	2444.7	2420.0	2438.2	2436.9	2453.8	2461.6	2470.6	2486.2
12.5°	2426.5	2422.6	2426.5	2422.6	2395.3	2409.6	2410.9	2430.4	2439.5	2451.2	2469.4
15°	2426.5	2420.0	2420.0	2412.2	2381.1	2390.2	2391.5	2404.4	2416.1	2427.8	2449.9
17.5°	2423.9	2417.4	2416.1	2409.6	2375.9	2375.9	2374.6	2383.7	2390.2	2401.8	2425.2
20°	2409.6	2407.0	2405.7	2401.8	2370.7	2365.5	2362.9	2362.9	2366.8	2370.7	2394.0
22.5°	2372.0	2374.6	2377.2	2379.8	2355.1	2346.0	2347.3	2344.7	2340.8	2340.8	2360.3
25°	2301.9	2314.9	2325.2	2336.9	2322.6	2316.2	2323.9	2320.0	2313.6	2308.4	2325.2
27.5°	2190.2	2217.5	2239.6	2268.1	2269.4	2264.2	2285.0	2282.4	2281.1	2273.3	2286.3
30°	2035.7	2078.6	2108.4	2150.0	2185.0	2190.2	2225.3	2230.5	2235.7	2231.8	2244.7
32.5°	1848.8	1907.2	1957.8	2022.7	2056.5	2086.4	2135.7	2156.5	2177.2	2183.7	2198.0
35°	1644.9	1711.1	1770.9	1842.3	1895.5	1960.4	2020.1	2051.3	2098.0	2116.2	2137.0
37.5°	1451.5	1513.8	1572.2	1643.6	1729.3	1796.8	1870.8	1940.9	2004.6	2030.5	2061.7
40°	1280.1	1330.7	1386.6	1448.9	1526.8	1615.1	1695.6	1792.9	1868.2	1920.2	1965.6
42.5°	1150.3	1175.0	1223.0	1278.8	1341.1	1430.7	1512.5	1621.6	1712.4	1786.4	1861.7
45°	1034.7	1046.4	1081.5	1111.3	1175.0	1254.1	1341.1	1447.6	1542.4	1637.1	1728.0
47.5°	936.1	950.3	967.2	985.4	1030.8	1097.1	1172.4	1268.4	1363.2	1473.6	1577.4
50°	869.9	873.8	876.3	884.1	911.4	956.8	1017.9	1099.7	1190.5	1308.7	1419.0
52.5°	811.4	811.4	803.6	799.7	810.1	838.7	873.8	932.2	1025.7	1134.7	1251.6
55°	749.1	737.4	734.8	721.8	724.4	737.4	754.3	799.7	876.3	969.8	1082.8
57.5°	662.1	656.9	656.9	651.7	641.4	647.8	651.7	684.2	738.7	819.2	917.9
60°	562.2	559.6	566.1	567.4	558.3	562.2	560.9	580.3	619.3	684.2	766.0
62.5°	462.2	473.9	475.2	480.4	475.2	473.9	480.4	497.2	516.7	566.1	629.7
65°	388.2	394.7	396.0	402.5	399.9	399.9	405.1	418.0	429.7	463.5	512.8
67.5°	340.2	337.6	338.9	342.7	338.9	337.6	341.5	349.2	358.3	379.1	414.2
70°	302.5	299.9	299.9	299.9	294.7	290.8	292.1	294.7	298.6	310.3	332.4
72.5°	273.9	273.9	270.0	266.1	262.3	259.7	257.1	254.5	253.2	257.1	268.7
75°	248.0	249.3	248.0	244.1	238.9	233.7	228.5	223.3	216.8	214.2	215.5
77.5°	224.6	225.9	227.2	225.9	220.7	214.2	206.4	198.6	189.6	180.5	175.3
80°	203.8	206.4	207.7	206.4	202.5	197.3	188.3	179.2	166.2	154.5	141.5
82.5°	185.7	189.6	190.8	190.8	188.3	183.1	172.7	162.3	148.0	132.4	115.5
85°	171.4	174.0	176.6	176.6	175.3	170.1	159.7	148.0	133.7	115.5	97.4
87.5°	157.1	158.4	161.0	163.6	161.0	155.8	146.7	133.7	119.4	101.3	80.5
90°	142.8	144.1	146.7	149.3	148.0	142.8	135.0	123.3	107.8	88.3	67.5
92.5°	128.5	131.1	132.4	133.7	135.0	131.1	124.6	113.0	97.4	77.9	58.4
95°	118.1	118.1	120.7	122.0	123.3	119.4	114.2	102.6	88.3	70.1	50.6
97.5°	107.8	107.8	110.4	110.4	111.7	109.1	103.9	93.5	79.2	62.3	42.8
100°	97.4	98.7	100.0	101.3	101.3	100.0	94.8	84.4	71.4	55.8	37.7
102.5°	90.9	90.9	92.2	92.2	93.5	90.9	85.7	76.6	63.6	49.3	32.5
105°	84.4	84.4	85.7	85.7	84.4	81.8	76.6	68.8	57.1	42.8	28.6
107.5°	79.2	79.2	79.2	79.2	77.9	75.3	70.1	61.0	50.6	38.9	26.0
110°	75.3	74.0	74.0	72.7	71.4	67.5	62.3	54.5	45.4	33.8	22.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	71.4	70.1	68.8	67.5	64.9	61.0	55.8	49.3	40.2	29.9	19.5
115°	67.5	66.2	64.9	62.3	59.7	55.8	50.6	44.1	35.1	26.0	16.9
117.5°	63.6	62.3	59.7	57.1	54.5	50.6	45.4	38.9	31.2	23.4	15.6
120°	58.4	57.1	55.8	53.2	50.6	45.4	40.2	35.1	27.3	20.8	13.0
122.5°	54.5	53.2	50.6	49.3	45.4	41.5	36.4	31.2	24.7	18.2	11.7
125°	49.3	48.0	46.7	44.1	41.5	36.4	32.5	27.3	22.1	15.6	9.1
127.5°	45.4	44.1	41.5	38.9	36.4	32.5	28.6	24.7	19.5	13.0	9.1
130°	40.2	38.9	37.7	35.1	32.5	28.6	26.0	20.8	16.9	11.7	7.8
132.5°	35.1	35.1	33.8	31.2	28.6	26.0	22.1	18.2	14.3	10.4	6.5
135°	32.5	31.2	29.9	27.3	26.0	22.1	19.5	15.6	11.7	9.1	5.2
137.5°	28.6	27.3	26.0	24.7	22.1	19.5	16.9	13.0	10.4	7.8	5.2
140°	24.7	23.4	23.4	20.8	19.5	16.9	14.3	11.7	9.1	6.5	3.9
142.5°	22.1	20.8	19.5	18.2	16.9	14.3	11.7	9.1	7.8	5.2	3.9
145°	19.5	18.2	16.9	15.6	14.3	11.7	10.4	7.8	6.5	5.2	3.9
147.5°	15.6	15.6	14.3	13.0	11.7	10.4	9.1	7.8	5.2	3.9	2.6
150°	13.0	13.0	11.7	10.4	10.4	9.1	7.8	6.5	5.2	3.9	2.6
152.5°	11.7	10.4	10.4	9.1	9.1	7.8	6.5	5.2	3.9	3.9	2.6
155°	9.1	9.1	9.1	7.8	7.8	6.5	5.2	5.2	3.9	2.6	2.6
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-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2517.4	2501.8	2514.8	2538.2	2535.6	2533.0	2530.4	2535.6	2552.4	2543.4	2529.1
5°	2513.5	2497.9	2512.2	2534.3	2533.0	2529.1	2526.5	2531.7	2548.5	2539.5	2523.9
7.5°	2505.7	2491.4	2501.8	2523.9	2523.9	2521.3	2518.7	2523.9	2539.5	2531.7	2516.1
10°	2492.7	2482.3	2492.7	2513.5	2514.8	2509.6	2507.0	2513.5	2529.1	2525.2	2512.2
12.5°	2482.3	2471.9	2483.6	2504.4	2505.7	2500.5	2496.6	2504.4	2525.2	2527.8	2523.9
15°	2468.1	2459.0	2473.2	2495.3	2495.3	2491.4	2491.4	2501.8	2530.4	2542.1	2548.5
17.5°	2447.3	2440.8	2457.7	2479.7	2481.0	2478.4	2479.7	2500.5	2538.2	2566.7	2584.9
20°	2421.3	2418.7	2436.9	2460.3	2464.2	2465.5	2471.9	2503.1	2555.0	2594.0	2612.2
22.5°	2390.2	2391.5	2412.2	2436.9	2442.1	2446.0	2459.0	2503.1	2568.0	2609.6	2617.4
25°	2355.1	2359.0	2381.1	2410.9	2417.4	2425.2	2447.3	2504.4	2571.9	2599.2	2586.2
27.5°	2317.5	2325.2	2353.8	2385.0	2392.8	2405.7	2434.3	2496.6	2553.7	2555.0	2507.0
30°	2278.5	2287.6	2321.3	2357.7	2370.7	2383.7	2418.7	2478.4	2509.6	2468.1	2383.7
32.5°	2234.4	2247.3	2281.1	2325.2	2340.8	2357.7	2392.8	2443.4	2431.7	2342.1	2221.4
35°	2178.5	2196.7	2235.7	2287.6	2301.9	2323.9	2348.6	2360.3	2308.4	2181.1	2044.8
37.5°	2109.7	2137.0	2182.4	2242.1	2257.7	2272.0	2278.5	2246.0	2142.2	2004.6	1863.0
40°	2030.5	2072.1	2121.4	2187.6	2203.2	2203.2	2179.8	2111.0	1979.9	1799.4	1642.3
42.5°	1934.5	1985.1	2047.4	2113.6	2129.2	2111.0	2055.2	1934.5	1785.2	1583.9	1417.7
45°	1817.6	1885.1	1955.2	2024.0	2031.8	1991.6	1891.6	1738.4	1554.1	1367.1	1208.7
47.5°	1678.7	1767.0	1843.6	1921.5	1911.1	1843.6	1709.8	1535.9	1341.1	1164.6	1037.3
50°	1522.9	1626.8	1712.4	1786.4	1764.4	1670.9	1513.8	1332.0	1138.6	988.0	882.8
52.5°	1356.7	1476.2	1561.8	1621.6	1591.7	1480.1	1307.4	1133.4	975.0	837.4	767.3
55°	1184.0	1304.8	1393.1	1439.8	1400.9	1280.1	1110.0	951.6	802.3	712.8	671.2
57.5°	1016.6	1129.5	1212.6	1250.3	1200.9	1080.2	923.1	789.4	681.6	606.3	585.5
60°	855.6	947.8	1026.9	1055.5	1002.3	890.6	755.6	649.1	569.9	518.0	507.6
62.5°	706.3	781.6	843.9	866.0	814.0	727.0	610.2	531.0	475.2	449.2	436.2
65°	582.9	627.1	690.7	686.8	655.6	575.1	489.5	433.6	397.3	380.4	372.6
67.5°	458.3	498.5	538.8	544.0	505.0	449.2	393.4	353.1	333.7	324.6	320.7
70°	354.4	384.3	409.0	402.5	381.7	346.6	311.6	289.5	281.7	277.8	277.8
72.5°	275.2	290.8	302.5	294.7	281.7	263.6	246.7	237.6	238.9	241.5	244.1
75°	212.9	216.8	219.4	211.6	209.0	197.3	196.0	197.3	205.1	212.9	216.8
77.5°	163.6	158.4	154.5	146.7	148.0	146.7	153.2	163.6	175.3	187.0	197.3
80°	125.9	114.2	105.2	97.4	101.3	107.8	120.7	136.3	151.9	164.9	177.9
82.5°	97.4	80.5	67.5	59.7	67.5	77.9	94.8	114.2	132.4	146.7	161.0
85°	75.3	55.8	40.2	32.5	40.2	55.8	74.0	96.1	115.5	131.1	145.4
87.5°	58.4	40.2	22.1	13.0	22.1	38.9	59.7	80.5	100.0	118.1	132.4
90°	46.7	27.3	10.4	2.6	11.7	27.3	46.7	67.5	87.0	106.5	120.7
92.5°	37.7	19.5	5.2	0.0	6.5	20.8	38.9	58.4	77.9	96.1	110.4
95°	31.2	15.6	3.9	0.0	5.2	15.6	31.2	50.6	68.8	87.0	98.7
97.5°	26.0	11.7	2.6	0.0	2.6	13.0	26.0	42.8	61.0	77.9	89.6
100°	22.1	10.4	2.6	0.0	2.6	10.4	22.1	37.7	53.2	68.8	80.5
102.5°	18.2	7.8	1.3	1.3	1.3	7.8	19.5	32.5	46.7	61.0	72.7
105°	16.9	6.5	1.3	1.3	1.3	6.5	16.9	28.6	41.5	54.5	64.9
107.5°	14.3	5.2	1.3	1.3	1.3	5.2	14.3	24.7	37.7	49.3	58.4
110°	11.7	5.2	1.3	1.3	1.3	5.2	11.7	22.1	32.5	42.8	51.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	10.4	3.9	1.3	1.3	1.3	3.9	10.4	19.5	28.6	38.9	46.7
115°	9.1	3.9	1.3	1.3	1.3	3.9	9.1	16.9	24.7	33.8	41.5
117.5°	7.8	3.9	1.3	1.3	1.3	2.6	7.8	14.3	22.1	29.9	37.7
120°	6.5	2.6	1.3	1.3	1.3	2.6	6.5	13.0	19.5	26.0	32.5
122.5°	6.5	2.6	1.3	1.3	1.3	2.6	5.2	10.4	16.9	22.1	28.6
125°	5.2	2.6	1.3	1.3	1.3	1.3	5.2	9.1	14.3	19.5	24.7
127.5°	5.2	2.6	1.3	1.3	1.3	1.3	3.9	7.8	11.7	16.9	22.1
130°	3.9	2.6	1.3	1.3	1.3	1.3	2.6	6.5	10.4	14.3	18.2
132.5°	3.9	2.6	1.3	1.3	1.3	1.3	2.6	5.2	7.8	11.7	15.6
135°	3.9	1.3	1.3	1.3	1.3	1.3	1.3	3.9	6.5	9.1	11.7
137.5°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	2.6	5.2	6.5	10.4
140°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	2.6	3.9	5.2	7.8
142.5°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	3.9	6.5
145°	2.6	1.3	1.3	2.6	2.6	1.3	1.3	2.6	2.6	3.9	5.2
147.5°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	3.9
150°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9
152.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
155°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2526.5	2496.6	2512.2	2507.0	2512.2	2525.2	2523.9	2520.0	2522.6	2516.1	2509.6
5°	2521.3	2491.4	2507.0	2500.5	2507.0	2520.0	2517.4	2513.5	2517.4	2509.6	2503.1
7.5°	2514.8	2487.5	2505.7	2504.4	2516.1	2533.0	2534.3	2534.3	2543.4	2531.7	2526.5
10°	2514.8	2500.5	2525.2	2534.3	2564.1	2586.2	2588.8	2594.0	2609.6	2607.0	2594.0
12.5°	2542.1	2539.5	2575.8	2597.9	2625.1	2656.3	2673.2	2678.4	2688.8	2681.0	2675.8
15°	2577.1	2590.1	2630.3	2655.0	2684.9	2708.2	2712.1	2714.7	2722.5	2710.8	2701.7
17.5°	2623.8	2631.6	2664.1	2674.5	2694.0	2697.8	2692.7	2679.7	2679.7	2653.7	2645.9
20°	2645.9	2642.0	2655.0	2638.1	2630.3	2607.0	2584.9	2560.2	2558.9	2531.7	2529.1
22.5°	2626.4	2600.5	2573.2	2531.7	2513.5	2479.7	2449.9	2435.6	2426.5	2391.5	2382.4
25°	2557.6	2494.0	2453.8	2404.4	2360.3	2321.3	2292.8	2262.9	2234.4	2205.8	2192.8
27.5°	2438.2	2378.5	2313.6	2244.7	2183.7	2124.0	2076.0	2046.1	2018.8	1981.2	1961.7
30°	2291.5	2208.4	2137.0	2070.8	1970.8	1898.1	1857.9	1798.1	1777.4	1760.5	1724.1
32.5°	2118.8	2018.8	1921.5	1831.9	1729.3	1661.8	1608.6	1564.4	1551.5	1507.3	1496.9
35°	1928.0	1796.8	1686.5	1598.2	1524.2	1442.4	1398.3	1368.4	1342.4	1312.6	1307.4
37.5°	1703.4	1585.2	1460.6	1382.7	1324.3	1254.1	1220.4	1199.6	1187.9	1165.9	1162.0
40°	1477.5	1359.3	1273.6	1195.7	1159.4	1121.7	1097.1	1088.0	1082.8	1075.0	1067.2
42.5°	1272.3	1168.5	1107.4	1055.5	1039.9	1021.8	1015.3	1020.5	1015.3	1012.7	1011.4
45°	1098.4	1019.2	976.3	960.7	956.8	951.6	956.8	965.9	967.2	964.6	964.6
47.5°	940.0	902.3	884.1	886.7	893.2	897.1	906.2	917.9	920.5	914.0	916.6
50°	836.1	814.0	810.1	820.5	834.8	840.0	850.4	859.5	858.2	855.6	853.0
52.5°	738.7	732.2	742.6	753.0	768.6	771.2	775.1	779.0	777.7	772.5	769.9
55°	656.9	662.1	671.2	675.1	686.8	685.5	686.8	686.8	681.6	679.0	675.1
57.5°	582.9	584.2	589.4	590.7	597.2	594.6	593.3	590.7	582.9	581.6	577.7
60°	507.6	505.0	516.7	507.6	512.8	507.6	506.3	499.8	492.1	490.8	488.2
62.5°	436.2	431.0	438.8	434.9	437.5	432.3	429.7	421.9	415.5	414.2	412.9
65°	372.6	370.0	377.8	376.5	379.1	372.6	370.0	364.8	359.6	358.3	357.0
67.5°	319.4	325.9	329.8	329.8	332.4	331.1	324.6	323.3	322.0	316.8	316.8
70°	280.4	284.3	292.1	293.4	292.1	294.7	289.5	288.2	286.9	284.3	283.0
72.5°	249.3	254.5	262.3	263.6	262.3	262.3	259.7	258.4	258.4	254.5	254.5
75°	224.6	231.1	237.6	237.6	237.6	235.0	232.4	232.4	229.8	228.5	225.9
77.5°	203.8	211.6	216.8	215.5	214.2	211.6	211.6	207.7	203.8	203.8	201.2
80°	188.3	193.4	197.3	196.0	194.7	190.8	189.6	185.7	183.1	179.2	179.2
82.5°	171.4	177.9	180.5	179.2	176.6	172.7	171.4	168.8	166.2	164.9	162.3
85°	157.1	163.6	164.9	162.3	159.7	157.1	155.8	154.5	153.2	150.6	150.6
87.5°	142.8	149.3	149.3	148.0	145.4	144.1	142.8	141.5	140.2	138.9	137.6
90°	131.1	136.3	136.3	135.0	133.7	132.4	131.1	129.8	128.5	127.2	127.2
92.5°	119.4	124.6	124.6	123.3	122.0	120.7	120.7	119.4	118.1	116.8	115.5
95°	109.1	114.2	114.2	114.2	113.0	111.7	111.7	110.4	109.1	109.1	107.8
97.5°	98.7	103.9	103.9	103.9	102.6	101.3	101.3	100.0	100.0	100.0	98.7
100°	89.6	93.5	94.8	94.8	93.5	93.5	93.5	92.2	92.2	92.2	90.9
102.5°	80.5	84.4	87.0	87.0	87.0	85.7	85.7	85.7	85.7	85.7	84.4
105°	72.7	76.6	79.2	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
107.5°	66.2	70.1	72.7	74.0	75.3	75.3	76.6	76.6	76.6	76.6	76.6
110°	59.7	63.6	67.5	68.8	70.1	71.4	71.4	72.7	71.4	71.4	71.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	53.2	58.4	61.0	63.6	64.9	66.2	67.5	67.5	67.5	67.5	67.5
115°	48.0	53.2	55.8	58.4	61.0	62.3	62.3	63.6	63.6	63.6	62.3
117.5°	42.8	48.0	50.6	53.2	54.5	57.1	58.4	58.4	58.4	58.4	57.1
120°	38.9	42.8	45.4	48.0	50.6	51.9	53.2	53.2	53.2	53.2	53.2
122.5°	33.8	37.7	41.5	44.1	45.4	46.7	48.0	48.0	48.0	48.0	48.0
125°	29.9	33.8	36.4	38.9	40.2	42.8	42.8	42.8	42.8	42.8	42.8
127.5°	26.0	29.9	32.5	35.1	36.4	37.7	38.9	38.9	38.9	38.9	38.9
130°	22.1	26.0	28.6	31.2	32.5	33.8	33.8	35.1	35.1	35.1	35.1
132.5°	19.5	22.1	24.7	27.3	28.6	29.9	29.9	31.2	31.2	31.2	31.2
135°	15.6	19.5	20.8	23.4	24.7	26.0	26.0	27.3	27.3	27.3	27.3
137.5°	13.0	15.6	18.2	20.8	22.1	22.1	23.4	23.4	24.7	24.7	24.7
140°	10.4	11.7	15.6	16.9	18.2	19.5	20.8	20.8	20.8	20.8	20.8
142.5°	7.8	10.4	11.7	14.3	15.6	16.9	18.2	18.2	18.2	18.2	18.2
145°	6.5	7.8	9.1	11.7	13.0	14.3	15.6	15.6	15.6	15.6	15.6
147.5°	5.2	6.5	7.8	9.1	10.4	11.7	13.0	13.0	13.0	13.0	13.0
150°	3.9	5.2	6.5	6.5	7.8	9.1	10.4	11.7	11.7	11.7	11.7
152.5°	3.9	3.9	5.2	5.2	6.5	7.8	9.1	9.1	9.1	9.1	9.1
155°	2.6	3.9	3.9	3.9	5.2	5.2	6.5	7.8	7.8	7.8	7.8
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-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2513.5	2518.7	2516.1	2512.2	2510.9	2517.4	2510.9	2481.0	2492.7	2494.0	2503.1
5°	2509.6	2513.5	2510.9	2508.3	2504.4	2512.2	2504.4	2473.2	2484.9	2486.2	2495.3
7.5°	2535.6	2536.9	2536.9	2530.4	2520.0	2523.9	2513.5	2478.4	2484.9	2484.9	2491.4
10°	2600.5	2603.1	2607.0	2590.1	2577.1	2566.7	2552.4	2509.6	2508.3	2497.9	2497.9
12.5°	2684.9	2678.4	2671.9	2664.1	2653.7	2640.7	2620.0	2569.3	2552.4	2535.6	2518.7
15°	2709.5	2706.9	2705.6	2701.7	2695.3	2691.4	2675.8	2625.1	2600.5	2579.7	2549.8
17.5°	2644.6	2649.8	2666.7	2668.0	2675.8	2691.4	2688.8	2653.7	2631.6	2622.5	2586.2
20°	2527.8	2529.1	2549.8	2558.9	2592.7	2618.7	2638.1	2634.2	2629.0	2639.4	2612.2
22.5°	2387.6	2396.6	2418.7	2433.0	2465.5	2495.3	2526.5	2543.4	2570.6	2613.5	2608.3
25°	2196.7	2208.4	2239.6	2262.9	2308.4	2353.8	2395.3	2425.2	2457.7	2539.5	2566.7
27.5°	1968.2	1986.4	2026.6	2050.0	2113.6	2160.4	2220.1	2278.5	2323.9	2417.4	2473.2
30°	1728.0	1743.6	1786.4	1818.9	1873.4	1937.1	2012.4	2095.4	2170.7	2265.5	2335.6
32.5°	1503.4	1520.3	1555.4	1583.9	1644.9	1698.2	1781.3	1883.8	1953.9	2085.1	2178.5
35°	1307.4	1323.0	1347.6	1372.3	1422.9	1477.5	1548.9	1648.8	1738.4	1874.7	1992.9
37.5°	1169.8	1172.4	1186.6	1200.9	1238.6	1280.1	1335.9	1424.2	1507.3	1654.0	1783.9
40°	1071.1	1071.1	1078.9	1082.8	1099.7	1124.3	1159.4	1228.2	1297.0	1408.6	1567.0
42.5°	1010.1	1007.5	1007.5	1008.8	1007.5	1019.2	1039.9	1072.4	1133.4	1225.6	1348.9
45°	964.6	959.4	955.5	946.5	941.3	941.3	942.6	954.2	989.3	1049.0	1149.0
47.5°	914.0	912.7	906.2	895.8	886.7	880.2	869.9	866.0	876.3	910.1	977.6
50°	855.6	849.1	842.6	834.8	824.4	817.9	798.4	799.7	790.7	806.2	841.3
52.5°	769.9	764.7	762.1	755.6	751.7	749.1	733.5	718.0	714.1	716.7	729.6
55°	675.1	677.7	667.3	672.5	671.2	659.5	653.0	641.4	637.5	636.2	642.7
57.5°	576.4	579.0	572.5	577.7	577.7	571.2	567.4	567.4	558.3	550.5	559.6
60°	486.9	481.7	485.6	492.1	492.1	488.2	485.6	485.6	479.1	476.5	483.0
62.5°	414.2	409.0	412.9	419.3	420.6	418.0	415.5	415.5	407.7	407.7	412.9
65°	358.3	359.6	358.3	363.5	363.5	364.8	362.2	359.6	350.5	354.4	353.1
67.5°	318.1	316.8	316.8	322.0	320.7	323.3	320.7	316.8	310.3	305.1	303.8
70°	284.3	283.0	283.0	285.6	286.9	286.9	285.6	283.0	273.9	268.7	264.9
72.5°	254.5	253.2	254.5	255.8	257.1	258.4	257.1	254.5	246.7	240.2	233.7
75°	227.2	225.9	229.8	229.8	231.1	231.1	232.4	231.1	224.6	216.8	209.0
77.5°	199.9	201.2	205.1	206.4	209.0	210.3	211.6	211.6	205.1	198.6	188.3
80°	177.9	180.5	183.1	184.4	187.0	190.8	192.1	193.4	188.3	181.8	170.1
82.5°	162.3	163.6	166.2	167.5	171.4	172.7	174.0	176.6	174.0	167.5	154.5
85°	149.3	150.6	153.2	153.2	155.8	158.4	159.7	161.0	159.7	153.2	140.2
87.5°	137.6	138.9	140.2	141.5	142.8	144.1	145.4	146.7	145.4	138.9	127.2
90°	127.2	127.2	128.5	128.5	129.8	131.1	133.7	133.7	132.4	127.2	115.5
92.5°	115.5	116.8	116.8	118.1	119.4	120.7	122.0	122.0	120.7	115.5	105.2
95°	107.8	107.8	109.1	109.1	110.4	110.4	111.7	111.7	110.4	105.2	94.8
97.5°	98.7	98.7	98.7	98.7	100.0	100.0	101.3	101.3	100.0	94.8	85.7
100°	90.9	90.9	90.9	90.9	90.9	92.2	92.2	92.2	90.9	85.7	76.6
102.5°	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	81.8	77.9	68.8
105°	80.5	80.5	80.5	79.2	79.2	79.2	77.9	77.9	74.0	70.1	62.3
107.5°	75.3	75.3	75.3	74.0	74.0	72.7	71.4	71.4	67.5	63.6	55.8
110°	71.4	71.4	71.4	70.1	68.8	67.5	66.2	64.9	61.0	55.8	49.3





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	67.5	67.5	66.2	66.2	64.9	63.6	61.0	59.7	55.8	50.6	44.1
115°	62.3	62.3	62.3	61.0	59.7	58.4	57.1	54.5	50.6	45.4	38.9
117.5°	57.1	57.1	57.1	55.8	54.5	53.2	51.9	49.3	45.4	40.2	35.1
120°	51.9	51.9	51.9	50.6	49.3	48.0	46.7	44.1	40.2	36.4	29.9
122.5°	48.0	48.0	46.7	45.4	44.1	42.8	41.5	38.9	36.4	31.2	26.0
125°	42.8	42.8	41.5	41.5	40.2	38.9	37.7	35.1	31.2	27.3	23.4
127.5°	38.9	37.7	37.7	37.7	36.4	35.1	32.5	31.2	27.3	23.4	19.5
130°	33.8	33.8	33.8	32.5	32.5	31.2	28.6	26.0	23.4	20.8	16.9
132.5°	29.9	29.9	29.9	29.9	28.6	27.3	24.7	23.4	20.8	16.9	14.3
135°	27.3	27.3	26.0	26.0	24.7	23.4	22.1	19.5	16.9	14.3	11.7
137.5°	23.4	23.4	23.4	22.1	22.1	20.8	18.2	16.9	15.6	13.0	10.4
140°	20.8	20.8	19.5	19.5	18.2	18.2	16.9	14.3	13.0	10.4	9.1
142.5°	18.2	18.2	16.9	16.9	15.6	15.6	14.3	13.0	10.4	9.1	6.5
145°	15.6	15.6	14.3	14.3	14.3	13.0	11.7	10.4	9.1	7.8	6.5
147.5°	13.0	13.0	13.0	11.7	11.7	10.4	10.4	9.1	7.8	6.5	5.2
150°	11.7	11.7	10.4	10.4	10.4	9.1	7.8	7.8	6.5	5.2	3.9
152.5°	9.1	9.1	9.1	9.1	7.8	7.8	6.5	6.5	5.2	3.9	3.9
155°	7.8	7.8	7.8	6.5	6.5	6.5	5.2	5.2	3.9	3.9	2.6
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-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5	2513.5
2.5°	2499.2	2497.9	2509.6	2508.3	2492.7	2516.1	2531.7
5°	2492.7	2491.4	2501.8	2504.4	2487.5	2512.2	2529.1
7.5°	2487.5	2486.2	2497.9	2501.8	2484.9	2507.0	2525.2
10°	2488.8	2482.3	2492.7	2495.3	2479.7	2503.1	2518.7
12.5°	2497.9	2482.3	2486.2	2486.2	2471.9	2492.7	2509.6
15°	2520.0	2487.5	2482.3	2478.4	2460.3	2479.7	2496.6
17.5°	2544.7	2500.5	2482.3	2469.4	2447.3	2464.2	2482.3
20°	2569.3	2514.8	2484.9	2464.2	2434.3	2449.9	2462.9
22.5°	2581.0	2527.8	2487.5	2456.4	2418.7	2426.5	2440.8
25°	2565.4	2522.6	2482.3	2444.7	2399.2	2400.5	2412.2
27.5°	2508.3	2496.6	2470.6	2433.0	2383.7	2377.2	2386.3
30°	2410.9	2443.4	2444.7	2417.4	2365.5	2352.5	2356.4
32.5°	2274.6	2347.3	2390.2	2385.0	2339.5	2321.3	2323.9
35°	2117.5	2208.4	2301.9	2333.0	2300.6	2286.3	2281.1
37.5°	1929.3	2051.3	2175.9	2252.5	2247.3	2238.3	2233.1
40°	1721.5	1868.2	2016.2	2138.3	2175.9	2175.9	2178.5
42.5°	1499.5	1670.9	1833.2	1987.7	2076.0	2095.4	2103.2
45°	1285.3	1458.0	1634.5	1812.4	1930.6	1991.6	2013.6
47.5°	1090.6	1264.5	1432.0	1626.8	1783.9	1863.0	1898.1
50°	924.4	1054.2	1230.8	1424.2	1595.6	1693.0	1761.8
52.5°	786.8	888.0	1042.5	1223.0	1395.7	1529.4	1593.0
55°	671.2	740.0	871.2	1026.9	1191.8	1330.7	1404.8
57.5°	573.8	628.4	718.0	847.8	986.7	1124.3	1203.5
60°	488.2	525.8	586.8	689.4	807.5	925.7	1002.3
62.5°	414.2	438.8	479.1	554.4	646.5	738.7	810.1
65°	357.0	367.4	389.5	436.2	506.3	576.4	637.5
67.5°	301.2	307.7	324.6	353.1	388.2	438.8	479.1
70°	259.7	259.7	261.0	277.8	296.0	328.5	357.0
72.5°	225.9	222.0	214.2	218.1	222.0	240.2	258.4
75°	198.6	189.6	176.6	171.4	168.8	171.4	181.8
77.5°	175.3	162.3	146.7	133.7	123.3	119.4	128.5
80°	155.8	140.2	122.0	105.2	88.3	79.2	83.1
82.5°	140.2	120.7	101.3	81.8	62.3	49.3	49.3
85°	123.3	105.2	84.4	63.6	44.1	27.3	24.7
87.5°	111.7	92.2	70.1	50.6	31.2	14.3	7.8
90°	100.0	80.5	59.7	40.2	22.1	6.5	0.0
92.5°	89.6	71.4	51.9	32.5	15.6	3.9	0.0
95°	80.5	63.6	44.1	27.3	13.0	2.6	1.3
97.5°	71.4	55.8	38.9	22.1	9.1	2.6	1.3
100°	64.9	49.3	33.8	18.2	7.8	1.3	1.3
102.5°	57.1	44.1	28.6	15.6	6.5	1.3	1.3
105°	50.6	38.9	24.7	13.0	5.2	1.3	1.3
107.5°	45.4	33.8	22.1	11.7	5.2	1.3	1.3
110°	40.2	29.9	19.5	10.4	3.9	1.3	1.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	36.4	26.0	16.9	9.1	2.6	1.3	1.3
115°	31.2	23.4	14.3	7.8	2.6	1.3	1.3
117.5°	27.3	19.5	13.0	6.5	2.6	1.3	1.3
120°	23.4	16.9	10.4	5.2	1.3	1.3	1.3
122.5°	20.8	14.3	9.1	5.2	1.3	1.3	1.3
125°	18.2	13.0	7.8	3.9	1.3	1.3	1.3
127.5°	15.6	10.4	6.5	2.6	1.3	1.3	1.3
130°	13.0	9.1	5.2	2.6	1.3	1.3	1.3
132.5°	10.4	7.8	5.2	2.6	1.3	1.3	1.3
135°	9.1	6.5	3.9	2.6	1.3	1.3	1.3
137.5°	7.8	5.2	2.6	2.6	2.6	1.3	1.3
140°	6.5	3.9	2.6	2.6	2.6	2.6	1.3
142.5°	5.2	3.9	2.6	2.6	2.6	2.6	1.3
145°	3.9	2.6	2.6	2.6	2.6	2.6	1.3
147.5°	3.9	2.6	2.6	2.6	2.6	2.6	1.3
150°	2.6	2.6	2.6	2.6	2.6	2.6	2.6
152.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6
155°	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)