

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-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-LD5-68SL-LC-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

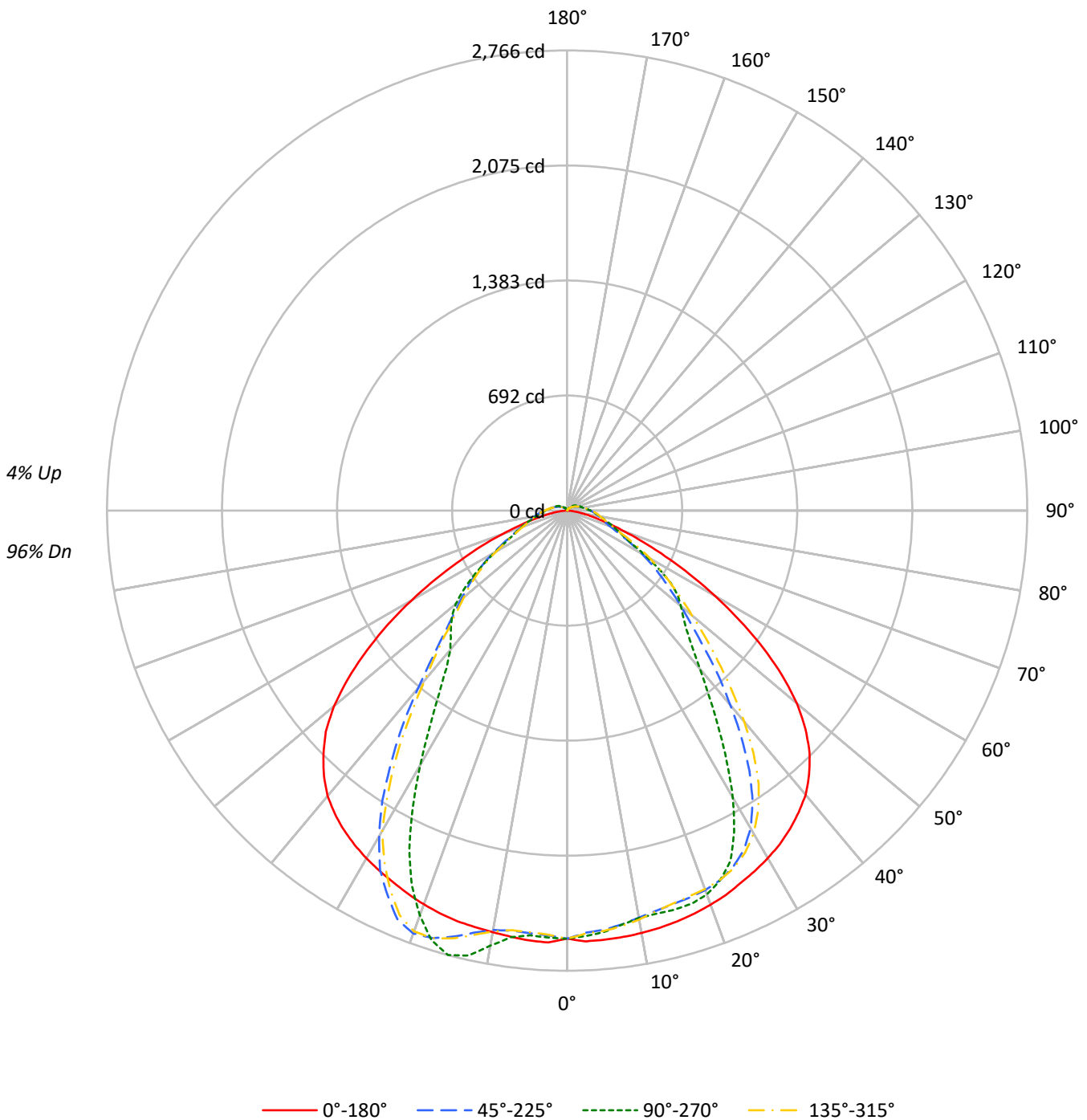
Lumens per Lamp: N/A
Luminaire Lumens: 6134.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (A_{in}): 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#
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	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°	10397	10397	10397	10397
5°	10487	9984	10508	10062
10°	10550	9569	10528	10219
15°	10646	9441	10641	10512
20°	10779	9291	10768	9794
25°	10929	8814	10924	8517
30°	11154	7640	11160	6768
35°	11394	6178	11426	5228
40°	11611	4974	11659	4382
45°	11598	4213	11658	4103
50°	11129	3879	11286	3792
55°	9909	3486	10156	3169
60°	8073	2668	8501	2447
65°	6037	2041	6504	1936
70°	4140	1762	4667	1685
75°	2745	1590	3195	1504
80°	1819	1483	2131	1364
85°	995	1479	1306	1351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	4.0
10°-20°	727.2	11.9
20°-30°	1105.6	18.0
30°-40°	1186.0	19.3
40°-50°	1029.3	16.8
50°-60°	762.8	12.4
60°-70°	437.1	7.1
70°-80°	242.0	3.9
80°-90°	147.4	2.4
90°-100°	95.8	1.6
100°-110°	64.2	1.0
110°-120°	43.3	0.7
120°-130°	26.6	0.4
130°-140°	14.0	0.2
140°-150°	6.4	0.1
150°-160°	1.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2077.2	33.9
0°-40°	3263.2	53.2
0°-60°	5055.3	82.4
0°-90°	5881.8	95.9
90°-120°	203.4	3.3
90°-150°	250.3	4.1
90°-180°	252.0	4.1
0°-180°	6134.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2573	2573	2573	2573	2573	
5°	2589	2542	2594	2562	2589	247
15°	2556	2484	2554	2766	2556	723
25°	2469	2323	2468	2245	2469	1141
35°	2335	1582	2342	1338	2335	1462
45°	2061	1014	2072	988	2061	1578
55°	1438	760	1474	691	1438	1275
65°	653	385	703	366	653	658
75°	186	244	217	231	186	212
85°	25	169	33	154	25	33
90°	0	141	3	130	0	1
95°	1	116	0	110	1	1
105°	1	86	1	82	1	1
115°	1	70	1	64	1	1
125°	1	53	1	44	1	1
135°	1	33	1	28	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	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1
2.5°	2591.7	2585.0	2582.4	2577.0	2581.0	2597.0	2586.3	2569.1	2570.4	2539.8	2555.8
5°	2589.0	2581.0	2577.0	2571.7	2574.4	2589.0	2578.4	2561.1	2559.8	2529.2	2543.8
7.5°	2585.0	2577.0	2570.4	2566.4	2567.7	2579.7	2566.4	2546.5	2542.5	2509.3	2522.6
10°	2578.4	2573.1	2563.8	2557.1	2555.8	2569.1	2547.8	2527.9	2518.6	2484.0	2497.3
12.5°	2569.1	2561.1	2551.8	2539.8	2538.5	2546.5	2529.2	2501.3	2492.0	2464.1	2478.7
15°	2555.8	2546.5	2535.8	2522.6	2515.9	2521.2	2500.0	2474.7	2473.4	2449.5	2469.4
17.5°	2541.2	2527.9	2515.9	2497.3	2488.0	2492.0	2474.7	2452.1	2454.8	2440.2	2462.7
20°	2521.2	2506.6	2488.0	2469.4	2456.1	2462.7	2450.8	2433.5	2437.5	2426.9	2446.8
22.5°	2498.6	2478.7	2456.1	2434.8	2424.2	2433.5	2424.2	2409.6	2410.9	2404.3	2416.2
25°	2469.4	2446.8	2420.2	2393.6	2388.3	2395.0	2389.6	2377.7	2372.4	2361.7	2367.1
27.5°	2442.8	2417.6	2384.3	2356.4	2347.1	2360.4	2348.4	2328.5	2313.9	2299.3	2288.6
30°	2412.2	2381.7	2344.5	2312.6	2304.6	2309.9	2292.6	2262.1	2223.5	2204.9	2175.7
32.5°	2379.0	2339.1	2292.6	2256.7	2251.4	2247.4	2215.5	2171.7	2111.9	2074.7	2029.5
35°	2335.2	2291.3	2235.5	2191.6	2183.6	2161.0	2109.2	2050.7	1973.7	1909.9	1832.8
37.5°	2286.0	2234.1	2175.7	2117.2	2094.6	2049.4	1976.3	1915.2	1798.2	1721.1	1628.1
40°	2230.2	2167.7	2095.9	2025.5	1988.3	1915.2	1831.4	1741.1	1628.1	1524.4	1446.0
42.5°	2153.1	2086.6	2001.6	1923.1	1859.4	1762.3	1664.0	1536.4	1432.7	1345.0	1265.3
45°	2061.4	1981.6	1883.3	1788.9	1707.8	1592.2	1476.6	1349.0	1262.6	1160.3	1105.8
47.5°	1943.1	1856.7	1751.7	1646.7	1540.4	1412.8	1291.8	1169.6	1083.2	1010.1	970.2
50°	1803.5	1723.8	1608.2	1483.2	1366.3	1233.4	1112.4	1020.7	937.0	891.8	861.2
52.5°	1630.8	1556.3	1438.0	1302.5	1189.5	1059.3	948.9	874.5	814.7	781.5	770.9
55°	1438.0	1372.9	1256.0	1129.7	1014.1	894.5	810.7	745.6	707.1	687.1	688.5
57.5°	1232.0	1181.5	1071.2	958.3	849.3	758.9	683.1	631.3	602.1	600.7	604.7
60°	1026.0	988.8	893.1	796.1	700.4	627.3	571.5	535.6	517.0	518.3	517.0
62.5°	829.3	794.8	725.7	645.9	570.2	521.0	470.5	455.9	439.9	438.6	438.6
65°	652.6	626.0	570.2	513.0	455.9	424.0	398.7	381.4	369.5	366.8	368.1
67.5°	490.4	479.8	441.2	402.7	366.8	346.9	325.6	321.6	312.3	312.3	315.0
70°	365.5	357.5	336.3	313.7	299.0	285.7	275.1	275.1	273.8	272.5	279.1
72.5°	264.5	265.8	259.2	241.9	240.6	237.9	235.2	239.2	240.6	244.5	252.5
75°	186.1	190.1	190.1	187.4	192.7	199.4	203.3	210.0	218.0	223.3	232.6
77.5°	131.6	131.6	138.2	146.2	156.8	168.8	179.4	188.7	199.4	206.0	214.0
80°	85.1	89.0	99.7	114.3	128.9	144.9	159.5	171.4	182.1	192.7	198.0
82.5°	50.5	57.1	70.4	89.0	107.7	127.6	142.2	156.8	168.8	179.4	183.4
85°	25.3	34.6	50.5	70.4	90.4	111.6	130.2	143.5	156.8	166.1	171.4
87.5°	8.0	18.6	35.9	54.5	75.8	97.0	117.0	131.6	143.5	151.5	156.8
90°	0.0	9.3	25.3	45.2	65.1	86.4	105.0	120.9	132.9	139.6	143.5
92.5°	0.0	5.3	19.9	37.2	55.8	77.1	95.7	110.3	120.9	127.6	130.2
95°	1.3	4.0	14.6	30.6	49.2	69.1	86.4	99.7	110.3	117.0	118.3
97.5°	1.3	2.7	12.0	25.3	42.5	61.1	78.4	91.7	99.7	106.3	107.7
100°	1.3	2.7	9.3	22.6	37.2	54.5	70.4	82.4	91.7	97.0	98.4
102.5°	1.3	1.3	8.0	18.6	33.2	47.8	62.5	74.4	82.4	87.7	90.4
105°	1.3	1.3	6.6	15.9	29.2	42.5	55.8	67.8	74.4	79.7	82.4
107.5°	1.3	1.3	5.3	13.3	25.3	37.2	50.5	59.8	67.8	73.1	75.8
110°	1.3	1.3	4.0	12.0	21.3	33.2	43.9	53.2	61.1	66.5	69.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.3	1.3	4.0	10.6	18.6	29.2	38.5	47.8	54.5	59.8	63.8
115°	1.3	1.3	4.0	9.3	17.3	25.3	34.6	42.5	49.2	54.5	58.5
117.5°	1.3	1.3	4.0	8.0	14.6	22.6	30.6	38.5	43.9	49.2	53.2
120°	1.3	1.3	2.7	6.6	13.3	19.9	26.6	33.2	39.9	45.2	49.2
122.5°	1.3	1.3	2.7	6.6	10.6	17.3	23.9	29.2	35.9	39.9	43.9
125°	1.3	1.3	2.7	5.3	9.3	15.9	21.3	26.6	30.6	35.9	39.9
127.5°	1.3	1.3	2.7	5.3	8.0	13.3	18.6	23.9	27.9	31.9	34.6
130°	1.3	1.3	2.7	4.0	6.6	10.6	15.9	19.9	25.3	27.9	30.6
132.5°	1.3	1.3	1.3	4.0	5.3	8.0	12.0	17.3	21.3	25.3	26.6
135°	1.3	1.3	1.3	2.7	5.3	6.6	9.3	13.3	17.3	21.3	23.9
137.5°	1.3	1.3	1.3	2.7	4.0	6.6	8.0	10.6	14.6	17.3	21.3
140°	1.3	1.3	1.3	2.7	4.0	5.3	6.6	9.3	12.0	14.6	17.3
142.5°	1.3	1.3	1.3	2.7	2.7	4.0	5.3	8.0	9.3	12.0	14.6
145°	1.3	1.3	1.3	2.7	2.7	4.0	5.3	6.6	8.0	9.3	12.0
147.5°	1.3	1.3	1.3	2.7	2.7	2.7	4.0	5.3	6.6	8.0	9.3
150°	2.7	2.7	2.7	2.7	2.7	2.7	4.0	4.0	5.3	6.6	8.0
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	4.0	4.0	4.0	5.3	6.6
155°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.0	4.0	5.3	5.3
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1
2.5°	2550.5	2553.1	2569.1	2567.7	2565.1	2562.4	2562.4	2559.8	2562.4	2569.1	2566.4
5°	2537.2	2541.2	2553.1	2551.8	2549.1	2547.8	2546.5	2542.5	2545.1	2554.5	2551.8
7.5°	2513.2	2517.2	2527.9	2522.6	2518.6	2521.2	2514.6	2510.6	2515.9	2525.2	2523.9
10°	2488.0	2490.7	2503.9	2501.3	2494.6	2496.0	2489.3	2486.7	2493.3	2498.6	2500.0
12.5°	2470.7	2480.0	2492.0	2490.7	2489.3	2490.7	2484.0	2481.4	2485.3	2490.7	2489.3
15°	2466.7	2478.7	2492.0	2492.0	2493.3	2494.6	2488.0	2484.0	2488.0	2492.0	2490.7
17.5°	2462.7	2477.4	2489.3	2488.0	2489.3	2492.0	2481.4	2478.7	2484.0	2489.3	2486.7
20°	2449.5	2462.7	2470.7	2468.1	2468.1	2469.4	2456.1	2456.1	2464.1	2468.1	2469.4
22.5°	2412.2	2428.2	2428.2	2421.5	2421.5	2416.2	2412.2	2404.3	2413.6	2420.2	2425.5
25°	2356.4	2363.1	2355.1	2340.5	2332.5	2325.9	2307.2	2323.2	2323.2	2343.1	2349.8
27.5°	2278.0	2263.4	2240.8	2210.2	2203.6	2182.3	2170.4	2174.3	2181.0	2208.9	2230.2
30°	2149.1	2105.2	2066.7	2053.4	2024.2	2002.9	1981.6	1992.3	2004.2	2020.2	2064.0
32.5°	1979.0	1936.4	1874.0	1851.4	1820.8	1794.2	1769.0	1784.9	1806.2	1816.8	1864.7
35°	1783.6	1733.1	1675.9	1637.4	1605.5	1590.9	1559.0	1581.6	1604.2	1612.1	1653.3
37.5°	1576.3	1524.4	1473.9	1440.7	1410.1	1400.8	1379.6	1395.5	1412.8	1424.8	1459.3
40°	1379.6	1331.7	1293.2	1270.6	1249.3	1241.3	1233.4	1240.0	1253.3	1262.6	1289.2
42.5°	1210.8	1172.2	1145.6	1132.4	1117.7	1107.1	1108.4	1111.1	1117.7	1137.7	1149.6
45°	1063.2	1040.7	1023.4	1020.7	1011.4	1010.1	1008.8	1014.1	1018.1	1030.0	1039.3
47.5°	945.0	935.7	931.7	937.0	941.0	935.7	938.3	945.0	952.9	952.9	951.6
50°	851.9	854.6	859.9	871.9	879.8	882.5	885.2	893.1	894.5	897.1	893.1
52.5°	776.2	778.8	793.4	812.1	821.4	825.3	830.7	838.6	838.6	841.3	836.0
55°	699.1	703.1	717.7	736.3	744.3	749.6	754.9	760.2	764.2	769.5	765.5
57.5°	614.0	626.0	635.3	640.6	645.9	649.9	653.9	655.2	663.2	664.5	671.2
60°	523.6	526.3	535.6	534.3	530.3	540.9	535.6	544.9	554.2	566.2	567.5
62.5°	437.3	438.6	445.2	442.6	447.9	446.6	450.6	450.6	457.2	462.5	469.2
65°	369.5	370.8	376.1	376.1	374.8	378.8	382.8	385.4	385.4	389.4	394.7
67.5°	319.0	323.0	328.3	330.9	333.6	333.6	337.6	338.9	341.6	342.9	345.6
70°	284.4	289.7	295.1	297.7	299.0	301.7	303.0	303.0	305.7	307.0	309.7
72.5°	259.2	264.5	268.5	268.5	271.1	272.5	272.5	273.8	275.1	277.8	280.4
75°	237.9	241.9	244.5	243.2	243.2	243.2	244.5	244.5	247.2	249.9	252.5
77.5°	218.0	222.0	222.0	219.3	219.3	219.3	219.3	220.6	222.0	224.6	227.3
80°	203.3	203.3	202.0	202.0	199.4	198.0	198.0	199.4	199.4	202.0	206.0
82.5°	187.4	187.4	186.1	184.7	183.4	182.1	182.1	183.4	184.7	186.1	188.7
85°	172.8	172.8	170.1	170.1	168.8	168.8	168.8	168.8	170.1	171.4	174.1
87.5°	158.2	156.8	155.5	154.2	154.2	154.2	154.2	154.2	155.5	158.2	159.5
90°	143.5	142.2	140.9	140.9	139.6	139.6	140.9	140.9	142.2	143.5	144.9
92.5°	130.2	128.9	127.6	127.6	126.3	126.3	127.6	126.3	128.9	128.9	130.2
95°	118.3	117.0	115.6	115.6	115.6	115.6	115.6	115.6	117.0	117.0	118.3
97.5°	107.7	106.3	105.0	105.0	106.3	105.0	106.3	106.3	106.3	107.7	109.0
100°	98.4	97.0	97.0	98.4	97.0	97.0	98.4	98.4	98.4	98.4	99.7
102.5°	90.4	90.4	90.4	90.4	90.4	90.4	91.7	91.7	91.7	91.7	93.0
105°	82.4	83.7	83.7	83.7	85.1	85.1	85.1	86.4	86.4	86.4	86.4
107.5°	77.1	78.4	78.4	79.7	79.7	81.1	81.1	81.1	81.1	82.4	82.4
110°	71.8	73.1	74.4	75.8	75.8	77.1	77.1	77.1	77.1	77.1	77.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	66.5	67.8	69.1	71.8	73.1	73.1	73.1	73.1	74.4	74.4	73.1
115°	61.1	63.8	65.1	67.8	69.1	69.1	70.4	70.4	70.4	70.4	69.1
117.5°	55.8	59.8	61.1	63.8	65.1	65.1	66.5	66.5	66.5	66.5	65.1
120°	51.8	54.5	57.1	58.5	59.8	61.1	61.1	62.5	62.5	62.5	61.1
122.5°	47.8	50.5	53.2	54.5	55.8	57.1	57.1	57.1	57.1	57.1	57.1
125°	42.5	45.2	47.8	49.2	50.5	51.8	51.8	53.2	53.2	53.2	51.8
127.5°	38.5	41.2	42.5	45.2	46.5	46.5	47.8	47.8	47.8	47.8	46.5
130°	33.2	35.9	38.5	39.9	41.2	41.2	42.5	42.5	42.5	42.5	42.5
132.5°	29.2	31.9	33.2	35.9	35.9	37.2	37.2	38.5	38.5	38.5	37.2
135°	26.6	27.9	29.2	31.9	31.9	33.2	33.2	33.2	33.2	33.2	33.2
137.5°	23.9	25.3	26.6	27.9	27.9	29.2	29.2	29.2	29.2	30.6	29.2
140°	19.9	22.6	23.9	23.9	25.3	25.3	25.3	26.6	26.6	26.6	25.3
142.5°	17.3	18.6	19.9	21.3	22.6	22.6	22.6	22.6	23.9	22.6	22.6
145°	13.3	15.9	17.3	18.6	19.9	19.9	19.9	19.9	19.9	19.9	19.9
147.5°	10.6	12.0	14.6	15.9	15.9	17.3	17.3	17.3	17.3	17.3	17.3
150°	9.3	9.3	12.0	13.3	14.6	14.6	14.6	14.6	14.6	14.6	14.6
152.5°	6.6	8.0	9.3	10.6	12.0	12.0	12.0	12.0	12.0	12.0	12.0
155°	6.6	6.6	8.0	8.0	9.3	9.3	9.3	9.3	10.6	9.3	9.3
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-LD5-68SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1
2.5°	2562.4	2561.1	2566.4	2561.1	2534.5	2545.1	2541.2	2555.8	2557.1	2561.1	2574.4
5°	2549.1	2549.1	2555.8	2550.5	2525.2	2535.8	2534.5	2549.1	2551.8	2554.5	2569.1
7.5°	2522.6	2523.9	2533.2	2529.2	2502.6	2518.6	2517.2	2534.5	2539.8	2545.1	2558.4
10°	2497.3	2496.0	2506.6	2502.6	2477.4	2496.0	2494.6	2511.9	2519.9	2529.2	2545.1
12.5°	2484.0	2480.0	2484.0	2480.0	2452.1	2466.7	2468.1	2488.0	2497.3	2509.3	2527.9
15°	2484.0	2477.4	2477.4	2469.4	2437.5	2446.8	2448.1	2461.4	2473.4	2485.3	2507.9
17.5°	2481.4	2474.7	2473.4	2466.7	2432.2	2432.2	2430.8	2440.2	2446.8	2458.8	2482.7
20°	2466.7	2464.1	2462.7	2458.8	2426.9	2421.5	2418.9	2418.9	2422.9	2426.9	2450.8
22.5°	2428.2	2430.8	2433.5	2436.2	2410.9	2401.6	2402.9	2400.3	2396.3	2396.3	2416.2
25°	2356.4	2369.7	2380.3	2392.3	2377.7	2371.0	2379.0	2375.0	2368.4	2363.1	2380.3
27.5°	2242.1	2270.0	2292.6	2321.9	2323.2	2317.9	2339.1	2336.5	2335.2	2327.2	2340.5
30°	2084.0	2127.8	2158.4	2200.9	2236.8	2242.1	2278.0	2283.3	2288.6	2284.7	2297.9
32.5°	1892.6	1952.4	2004.2	2070.7	2105.2	2135.8	2186.3	2207.6	2228.8	2235.5	2250.1
35°	1683.9	1751.7	1812.8	1885.9	1940.4	2006.9	2068.0	2099.9	2147.8	2166.4	2187.6
37.5°	1485.9	1549.7	1609.5	1682.6	1770.3	1839.4	1915.2	1986.9	2052.1	2078.6	2110.5
40°	1310.5	1362.3	1419.4	1483.2	1563.0	1653.3	1735.8	1835.4	1912.5	1965.7	2012.2
42.5°	1177.5	1202.8	1252.0	1309.1	1372.9	1464.6	1548.4	1660.0	1753.0	1828.8	1905.9
45°	1059.3	1071.2	1107.1	1137.7	1202.8	1283.9	1372.9	1481.9	1578.9	1675.9	1769.0
47.5°	958.3	972.9	990.1	1008.8	1055.3	1123.1	1200.1	1298.5	1395.5	1508.5	1614.8
50°	890.5	894.5	897.1	905.1	933.0	979.5	1042.0	1125.7	1218.7	1339.7	1452.7
52.5°	830.7	830.7	822.7	818.7	829.3	858.6	894.5	954.3	1050.0	1161.6	1281.2
55°	766.9	754.9	752.2	739.0	741.6	754.9	772.2	818.7	897.1	992.8	1108.4
57.5°	677.8	672.5	672.5	667.2	656.6	663.2	667.2	700.4	756.2	838.6	939.6
60°	575.5	572.8	579.5	580.8	571.5	575.5	574.2	594.1	634.0	700.4	784.1
62.5°	473.1	485.1	486.4	491.8	486.4	485.1	491.8	509.0	529.0	579.5	644.6
65°	397.4	404.0	405.4	412.0	409.4	409.4	414.7	428.0	439.9	474.5	525.0
67.5°	348.2	345.6	346.9	350.9	346.9	345.6	349.5	357.5	366.8	388.1	424.0
70°	309.7	307.0	307.0	307.0	301.7	297.7	299.0	301.7	305.7	317.6	340.2
72.5°	280.4	280.4	276.4	272.5	268.5	265.8	263.2	260.5	259.2	263.2	275.1
75°	253.9	255.2	253.9	249.9	244.5	239.2	233.9	228.6	222.0	219.3	220.6
77.5°	229.9	231.3	232.6	231.3	225.9	219.3	211.3	203.3	194.0	184.7	179.4
80°	208.7	211.3	212.6	211.3	207.3	202.0	192.7	183.4	170.1	158.2	144.9
82.5°	190.1	194.0	195.4	195.4	192.7	187.4	176.8	166.1	151.5	135.6	118.3
85°	175.4	178.1	180.8	180.8	179.4	174.1	163.5	151.5	136.9	118.3	99.7
87.5°	160.8	162.1	164.8	167.5	164.8	159.5	150.2	136.9	122.3	103.7	82.4
90°	146.2	147.5	150.2	152.8	151.5	146.2	138.2	126.3	110.3	90.4	69.1
92.5°	131.6	134.2	135.6	136.9	138.2	134.2	127.6	115.6	99.7	79.7	59.8
95°	120.9	120.9	123.6	124.9	126.3	122.3	117.0	105.0	90.4	71.8	51.8
97.5°	110.3	110.3	113.0	113.0	114.3	111.6	106.3	95.7	81.1	63.8	43.9
100°	99.7	101.0	102.3	103.7	103.7	102.3	97.0	86.4	73.1	57.1	38.5
102.5°	93.0	93.0	94.4	94.4	95.7	93.0	87.7	78.4	65.1	50.5	33.2
105°	86.4	86.4	87.7	87.7	86.4	83.7	78.4	70.4	58.5	43.9	29.2
107.5°	81.1	81.1	81.1	81.1	79.7	77.1	71.8	62.5	51.8	39.9	26.6
110°	77.1	75.8	75.8	74.4	73.1	69.1	63.8	55.8	46.5	34.6	22.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	73.1	71.8	70.4	69.1	66.5	62.5	57.1	50.5	41.2	30.6	19.9
115°	69.1	67.8	66.5	63.8	61.1	57.1	51.8	45.2	35.9	26.6	17.3
117.5°	65.1	63.8	61.1	58.5	55.8	51.8	46.5	39.9	31.9	23.9	15.9
120°	59.8	58.5	57.1	54.5	51.8	46.5	41.2	35.9	27.9	21.3	13.3
122.5°	55.8	54.5	51.8	50.5	46.5	42.5	37.2	31.9	25.3	18.6	12.0
125°	50.5	49.2	47.8	45.2	42.5	37.2	33.2	27.9	22.6	15.9	9.3
127.5°	46.5	45.2	42.5	39.9	37.2	33.2	29.2	25.3	19.9	13.3	9.3
130°	41.2	39.9	38.5	35.9	33.2	29.2	26.6	21.3	17.3	12.0	8.0
132.5°	35.9	35.9	34.6	31.9	29.2	26.6	22.6	18.6	14.6	10.6	6.6
135°	33.2	31.9	30.6	27.9	26.6	22.6	19.9	15.9	12.0	9.3	5.3
137.5°	29.2	27.9	26.6	25.3	22.6	19.9	17.3	13.3	10.6	8.0	5.3
140°	25.3	23.9	23.9	21.3	19.9	17.3	14.6	12.0	9.3	6.6	4.0
142.5°	22.6	21.3	19.9	18.6	17.3	14.6	12.0	9.3	8.0	5.3	4.0
145°	19.9	18.6	17.3	15.9	14.6	12.0	10.6	8.0	6.6	5.3	4.0
147.5°	15.9	15.9	14.6	13.3	12.0	10.6	9.3	8.0	5.3	4.0	2.7
150°	13.3	13.3	12.0	10.6	10.6	9.3	8.0	6.6	5.3	4.0	2.7
152.5°	12.0	10.6	10.6	9.3	9.3	8.0	6.6	5.3	4.0	4.0	2.7
155°	9.3	9.3	9.3	8.0	8.0	6.6	5.3	5.3	4.0	2.7	2.7
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1
2.5°	2577.0	2561.1	2574.4	2598.3	2595.7	2593.0	2590.3	2595.7	2612.9	2603.6	2589.0
5°	2573.1	2557.1	2571.7	2594.3	2593.0	2589.0	2586.3	2591.7	2608.9	2599.6	2583.7
7.5°	2565.1	2550.5	2561.1	2583.7	2583.7	2581.0	2578.4	2583.7	2599.6	2591.7	2575.7
10°	2551.8	2541.2	2551.8	2573.1	2574.4	2569.1	2566.4	2573.1	2589.0	2585.0	2571.7
12.5°	2541.2	2530.5	2542.5	2563.8	2565.1	2559.8	2555.8	2563.8	2585.0	2587.7	2583.7
15°	2526.5	2517.2	2531.9	2554.5	2554.5	2550.5	2550.5	2561.1	2590.3	2602.3	2608.9
17.5°	2505.3	2498.6	2515.9	2538.5	2539.8	2537.2	2538.5	2559.8	2598.3	2627.5	2646.2
20°	2478.7	2476.0	2494.6	2518.6	2522.6	2523.9	2530.5	2562.4	2615.6	2655.5	2674.1
22.5°	2446.8	2448.1	2469.4	2494.6	2500.0	2503.9	2517.2	2562.4	2628.9	2671.4	2679.4
25°	2410.9	2414.9	2437.5	2468.1	2474.7	2482.7	2505.3	2563.8	2632.9	2660.8	2647.5
27.5°	2372.4	2380.3	2409.6	2441.5	2449.5	2462.7	2492.0	2555.8	2614.3	2615.6	2566.4
30°	2332.5	2341.8	2376.4	2413.6	2426.9	2440.2	2476.0	2537.2	2569.1	2526.5	2440.2
32.5°	2287.3	2300.6	2335.2	2380.3	2396.3	2413.6	2449.5	2501.3	2489.3	2397.6	2274.0
35°	2230.2	2248.8	2288.6	2341.8	2356.4	2379.0	2404.3	2416.2	2363.1	2232.8	2093.3
37.5°	2159.7	2187.6	2234.1	2295.3	2311.2	2325.9	2332.5	2299.3	2192.9	2052.1	1907.2
40°	2078.6	2121.2	2171.7	2239.5	2255.4	2255.4	2231.5	2161.0	2026.8	1842.1	1681.3
42.5°	1980.3	2032.1	2095.9	2163.7	2179.7	2161.0	2103.9	1980.3	1827.5	1621.5	1451.3
45°	1860.7	1929.8	2001.6	2072.0	2080.0	2038.8	1936.4	1779.6	1590.9	1399.5	1237.4
47.5°	1718.5	1808.8	1887.3	1967.0	1956.4	1887.3	1750.4	1572.3	1372.9	1192.2	1061.9
50°	1559.0	1665.3	1753.0	1828.8	1806.2	1710.5	1549.7	1363.6	1165.6	1011.4	903.8
52.5°	1388.9	1511.1	1598.9	1660.0	1629.4	1515.1	1338.4	1160.3	998.1	857.2	785.5
55°	1212.1	1335.7	1426.1	1473.9	1434.1	1310.5	1136.3	974.2	821.4	729.7	687.1
57.5°	1040.7	1156.3	1241.3	1279.9	1229.4	1105.8	945.0	808.1	697.8	620.7	599.4
60°	875.8	970.2	1051.3	1080.5	1026.0	911.7	773.5	664.5	583.5	530.3	519.7
62.5°	723.0	800.1	863.9	886.5	833.3	744.3	624.7	543.6	486.4	459.9	446.6
65°	596.7	641.9	707.1	703.1	671.2	588.8	501.1	443.9	406.7	389.4	381.4
67.5°	469.2	510.4	551.6	556.9	517.0	459.9	402.7	361.5	341.6	332.3	328.3
70°	362.8	393.4	418.7	412.0	390.7	354.9	319.0	296.4	288.4	284.4	284.4
72.5°	281.8	297.7	309.7	301.7	288.4	269.8	252.5	243.2	244.5	247.2	249.9
75°	218.0	222.0	224.6	216.6	214.0	202.0	200.7	202.0	210.0	218.0	222.0
77.5°	167.5	162.1	158.2	150.2	151.5	150.2	156.8	167.5	179.4	191.4	202.0
80°	128.9	117.0	107.7	99.7	103.7	110.3	123.6	139.6	155.5	168.8	182.1
82.5°	99.7	82.4	69.1	61.1	69.1	79.7	97.0	117.0	135.6	150.2	164.8
85°	77.1	57.1	41.2	33.2	41.2	57.1	75.8	98.4	118.3	134.2	148.9
87.5°	59.8	41.2	22.6	13.3	22.6	39.9	61.1	82.4	102.3	120.9	135.6
90°	47.8	27.9	10.6	2.7	12.0	27.9	47.8	69.1	89.0	109.0	123.6
92.5°	38.5	19.9	5.3	0.0	6.6	21.3	39.9	59.8	79.7	98.4	113.0
95°	31.9	15.9	4.0	0.0	5.3	15.9	31.9	51.8	70.4	89.0	101.0
97.5°	26.6	12.0	2.7	0.0	2.7	13.3	26.6	43.9	62.5	79.7	91.7
100°	22.6	10.6	2.7	0.0	2.7	10.6	22.6	38.5	54.5	70.4	82.4
102.5°	18.6	8.0	1.3	1.3	1.3	8.0	19.9	33.2	47.8	62.5	74.4
105°	17.3	6.6	1.3	1.3	1.3	6.6	17.3	29.2	42.5	55.8	66.5
107.5°	14.6	5.3	1.3	1.3	1.3	5.3	14.6	25.3	38.5	50.5	59.8
110°	12.0	5.3	1.3	1.3	1.3	5.3	12.0	22.6	33.2	43.9	53.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	10.6	4.0	1.3	1.3	1.3	4.0	10.6	19.9	29.2	39.9	47.8
115°	9.3	4.0	1.3	1.3	1.3	4.0	9.3	17.3	25.3	34.6	42.5
117.5°	8.0	4.0	1.3	1.3	1.3	2.7	8.0	14.6	22.6	30.6	38.5
120°	6.6	2.7	1.3	1.3	1.3	2.7	6.6	13.3	19.9	26.6	33.2
122.5°	6.6	2.7	1.3	1.3	1.3	2.7	5.3	10.6	17.3	22.6	29.2
125°	5.3	2.7	1.3	1.3	1.3	1.3	5.3	9.3	14.6	19.9	25.3
127.5°	5.3	2.7	1.3	1.3	1.3	1.3	4.0	8.0	12.0	17.3	22.6
130°	4.0	2.7	1.3	1.3	1.3	1.3	2.7	6.6	10.6	14.6	18.6
132.5°	4.0	2.7	1.3	1.3	1.3	1.3	2.7	5.3	8.0	12.0	15.9
135°	4.0	1.3	1.3	1.3	1.3	1.3	1.3	4.0	6.6	9.3	12.0
137.5°	2.7	1.3	1.3	1.3	1.3	1.3	1.3	2.7	5.3	6.6	10.6
140°	2.7	1.3	1.3	1.3	1.3	1.3	1.3	2.7	4.0	5.3	8.0
142.5°	2.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	4.0	6.6
145°	2.7	1.3	1.3	2.7	2.7	1.3	1.3	2.7	2.7	4.0	5.3
147.5°	2.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	4.0
150°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.0
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
155°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1
2.5°	2586.3	2555.8	2571.7	2566.4	2571.7	2585.0	2583.7	2579.7	2582.4	2575.7	2569.1
5°	2581.0	2550.5	2566.4	2559.8	2566.4	2579.7	2577.0	2573.1	2577.0	2569.1	2562.4
7.5°	2574.4	2546.5	2565.1	2563.8	2575.7	2593.0	2594.3	2594.3	2603.6	2591.7	2586.3
10°	2574.4	2559.8	2585.0	2594.3	2624.9	2647.5	2650.1	2655.5	2671.4	2668.7	2655.5
12.5°	2602.3	2599.6	2636.9	2659.4	2687.4	2719.3	2736.5	2741.8	2752.5	2744.5	2739.2
15°	2638.2	2651.5	2692.7	2717.9	2748.5	2772.4	2776.4	2779.1	2787.0	2775.1	2765.8
17.5°	2686.0	2694.0	2727.2	2737.9	2757.8	2761.8	2756.5	2743.2	2743.2	2716.6	2708.6
20°	2708.6	2704.6	2717.9	2700.6	2692.7	2668.7	2646.2	2620.9	2619.6	2591.7	2589.0
22.5°	2688.7	2662.1	2634.2	2591.7	2573.1	2538.5	2507.9	2493.3	2484.0	2448.1	2438.8
25°	2618.2	2553.1	2511.9	2461.4	2416.2	2376.4	2347.1	2316.5	2287.3	2258.1	2244.8
27.5°	2496.0	2434.8	2368.4	2297.9	2235.5	2174.3	2125.2	2094.6	2066.7	2028.1	2008.2
30°	2345.8	2260.7	2187.6	2119.8	2017.5	1943.1	1901.9	1840.7	1819.5	1802.2	1765.0
32.5°	2169.0	2066.7	1967.0	1875.3	1770.3	1701.2	1646.7	1601.5	1588.2	1543.0	1532.4
35°	1973.7	1839.4	1726.4	1636.1	1560.3	1476.6	1431.4	1400.8	1374.2	1343.7	1338.4
37.5°	1743.7	1622.8	1495.2	1415.4	1355.6	1283.9	1249.3	1228.1	1216.1	1193.5	1189.5
40°	1512.5	1391.5	1303.8	1224.1	1186.8	1148.3	1123.1	1113.8	1108.4	1100.5	1092.5
42.5°	1302.5	1196.2	1133.7	1080.5	1064.6	1046.0	1039.3	1044.6	1039.3	1036.7	1035.3
45°	1124.4	1043.3	999.5	983.5	979.5	974.2	979.5	988.8	990.1	987.5	987.5
47.5°	962.2	923.7	905.1	907.7	914.4	918.4	927.7	939.6	942.3	935.7	938.3
50°	855.9	833.3	829.3	840.0	854.6	859.9	870.5	879.8	878.5	875.8	873.2
52.5°	756.2	749.6	760.2	770.9	786.8	789.5	793.4	797.4	796.1	790.8	788.1
55°	672.5	677.8	687.1	691.1	703.1	701.7	703.1	703.1	697.8	695.1	691.1
57.5°	596.7	598.1	603.4	604.7	611.4	608.7	607.4	604.7	596.7	595.4	591.4
60°	519.7	517.0	529.0	519.7	525.0	519.7	518.3	511.7	503.7	502.4	499.7
62.5°	446.6	441.2	449.2	445.2	447.9	442.6	439.9	431.9	425.3	424.0	422.6
65°	381.4	378.8	386.8	385.4	388.1	381.4	378.8	373.5	368.1	366.8	365.5
67.5°	326.9	333.6	337.6	337.6	340.2	338.9	332.3	330.9	329.6	324.3	324.3
70°	287.1	291.1	299.0	300.4	299.0	301.7	296.4	295.1	293.7	291.1	289.7
72.5°	255.2	260.5	268.5	269.8	268.5	268.5	265.8	264.5	264.5	260.5	260.5
75°	229.9	236.6	243.2	243.2	243.2	240.6	237.9	237.9	235.2	233.9	231.3
77.5°	208.7	216.6	222.0	220.6	219.3	216.6	216.6	212.6	208.7	208.7	206.0
80°	192.7	198.0	202.0	200.7	199.4	195.4	194.0	190.1	187.4	183.4	183.4
82.5°	175.4	182.1	184.7	183.4	180.8	176.8	175.4	172.8	170.1	168.8	166.1
85°	160.8	167.5	168.8	166.1	163.5	160.8	159.5	158.2	156.8	154.2	154.2
87.5°	146.2	152.8	152.8	151.5	148.9	147.5	146.2	144.9	143.5	142.2	140.9
90°	134.2	139.6	139.6	138.2	136.9	135.6	134.2	132.9	131.6	130.2	130.2
92.5°	122.3	127.6	127.6	126.3	124.9	123.6	123.6	122.3	120.9	119.6	118.3
95°	111.6	117.0	117.0	117.0	115.6	114.3	114.3	113.0	111.6	111.6	110.3
97.5°	101.0	106.3	106.3	106.3	105.0	103.7	103.7	102.3	102.3	102.3	101.0
100°	91.7	95.7	97.0	97.0	95.7	95.7	95.7	94.4	94.4	94.4	93.0
102.5°	82.4	86.4	89.0	89.0	89.0	87.7	87.7	87.7	87.7	87.7	86.4
105°	74.4	78.4	81.1	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
107.5°	67.8	71.8	74.4	75.8	77.1	77.1	78.4	78.4	78.4	78.4	78.4
110°	61.1	65.1	69.1	70.4	71.8	73.1	73.1	74.4	73.1	73.1	73.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	54.5	59.8	62.5	65.1	66.5	67.8	69.1	69.1	69.1	69.1	69.1
115°	49.2	54.5	57.1	59.8	62.5	63.8	63.8	65.1	65.1	65.1	63.8
117.5°	43.9	49.2	51.8	54.5	55.8	58.5	59.8	59.8	59.8	59.8	58.5
120°	39.9	43.9	46.5	49.2	51.8	53.2	54.5	54.5	54.5	54.5	54.5
122.5°	34.6	38.5	42.5	45.2	46.5	47.8	49.2	49.2	49.2	49.2	49.2
125°	30.6	34.6	37.2	39.9	41.2	43.9	43.9	43.9	43.9	43.9	43.9
127.5°	26.6	30.6	33.2	35.9	37.2	38.5	39.9	39.9	39.9	39.9	39.9
130°	22.6	26.6	29.2	31.9	33.2	34.6	34.6	35.9	35.9	35.9	35.9
132.5°	19.9	22.6	25.3	27.9	29.2	30.6	30.6	31.9	31.9	31.9	31.9
135°	15.9	19.9	21.3	23.9	25.3	26.6	26.6	27.9	27.9	27.9	27.9
137.5°	13.3	15.9	18.6	21.3	22.6	22.6	23.9	23.9	25.3	25.3	25.3
140°	10.6	12.0	15.9	17.3	18.6	19.9	21.3	21.3	21.3	21.3	21.3
142.5°	8.0	10.6	12.0	14.6	15.9	17.3	18.6	18.6	18.6	18.6	18.6
145°	6.6	8.0	9.3	12.0	13.3	14.6	15.9	15.9	15.9	15.9	15.9
147.5°	5.3	6.6	8.0	9.3	10.6	12.0	13.3	13.3	13.3	13.3	13.3
150°	4.0	5.3	6.6	6.6	8.0	9.3	10.6	12.0	12.0	12.0	12.0
152.5°	4.0	4.0	5.3	5.3	6.6	8.0	9.3	9.3	9.3	9.3	9.3
155°	2.7	4.0	4.0	4.0	5.3	5.3	6.6	8.0	8.0	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-LD5-68SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1
2.5°	2573.1	2578.4	2575.7	2571.7	2570.4	2577.0	2570.4	2539.8	2551.8	2553.1	2562.4
5°	2569.1	2573.1	2570.4	2567.7	2563.8	2571.7	2563.8	2531.9	2543.8	2545.1	2554.5
7.5°	2595.7	2597.0	2597.0	2590.3	2579.7	2583.7	2573.1	2537.2	2543.8	2543.8	2550.5
10°	2662.1	2664.8	2668.7	2651.5	2638.2	2627.5	2612.9	2569.1	2567.7	2557.1	2557.1
12.5°	2748.5	2741.8	2735.2	2727.2	2716.6	2703.3	2682.0	2630.2	2612.9	2595.7	2578.4
15°	2773.7	2771.1	2769.8	2765.8	2759.1	2755.1	2739.2	2687.4	2662.1	2640.8	2610.3
17.5°	2707.3	2712.6	2729.9	2731.2	2739.2	2755.1	2752.5	2716.6	2694.0	2684.7	2647.5
20°	2587.7	2589.0	2610.3	2619.6	2654.1	2680.7	2700.6	2696.7	2691.3	2702.0	2674.1
22.5°	2444.1	2453.4	2476.0	2490.7	2523.9	2554.5	2586.3	2603.6	2631.5	2675.4	2670.1
25°	2248.8	2260.7	2292.6	2316.5	2363.1	2409.6	2452.1	2482.7	2515.9	2599.6	2627.5
27.5°	2014.9	2033.5	2074.7	2098.6	2163.7	2211.6	2272.7	2332.5	2379.0	2474.7	2531.9
30°	1769.0	1784.9	1828.8	1862.0	1917.8	1983.0	2060.0	2145.1	2222.2	2319.2	2391.0
32.5°	1539.0	1556.3	1592.2	1621.5	1683.9	1738.4	1823.5	1928.5	2000.2	2134.5	2230.2
35°	1338.4	1354.3	1379.6	1404.8	1456.6	1512.5	1585.6	1687.9	1779.6	1919.2	2040.1
37.5°	1197.5	1200.1	1214.8	1229.4	1267.9	1310.5	1367.6	1458.0	1543.0	1693.2	1826.1
40°	1096.5	1096.5	1104.4	1108.4	1125.7	1151.0	1186.8	1257.3	1327.7	1442.0	1604.2
42.5°	1034.0	1031.3	1031.3	1032.7	1031.3	1043.3	1064.6	1097.8	1160.3	1254.6	1380.9
45°	987.5	982.2	978.2	968.9	963.6	963.6	964.9	976.9	1012.7	1073.9	1176.2
47.5°	935.7	934.3	927.7	917.1	907.7	901.1	890.5	886.5	897.1	931.7	1000.8
50°	875.8	869.2	862.6	854.6	844.0	837.3	817.4	818.7	809.4	825.3	861.2
52.5°	788.1	782.8	780.2	773.5	769.5	766.9	750.9	735.0	731.0	733.6	746.9
55°	691.1	693.8	683.1	688.5	687.1	675.2	668.5	656.6	652.6	651.2	657.9
57.5°	590.1	592.8	586.1	591.4	591.4	584.8	580.8	580.8	571.5	563.5	572.8
60°	498.4	493.1	497.1	503.7	503.7	499.7	497.1	497.1	490.4	487.8	494.4
62.5°	424.0	418.7	422.6	429.3	430.6	428.0	425.3	425.3	417.3	417.3	422.6
65°	366.8	368.1	366.8	372.1	372.1	373.5	370.8	368.1	358.8	362.8	361.5
67.5°	325.6	324.3	324.3	329.6	328.3	330.9	328.3	324.3	317.6	312.3	311.0
70°	291.1	289.7	289.7	292.4	293.7	293.7	292.4	289.7	280.4	275.1	271.1
72.5°	260.5	259.2	260.5	261.8	263.2	264.5	263.2	260.5	252.5	245.9	239.2
75°	232.6	231.3	235.2	235.2	236.6	236.6	237.9	236.6	229.9	222.0	214.0
77.5°	204.7	206.0	210.0	211.3	214.0	215.3	216.6	216.6	210.0	203.3	192.7
80°	182.1	184.7	187.4	188.7	191.4	195.4	196.7	198.0	192.7	186.1	174.1
82.5°	166.1	167.5	170.1	171.4	175.4	176.8	178.1	180.8	178.1	171.4	158.2
85°	152.8	154.2	156.8	156.8	159.5	162.1	163.5	164.8	163.5	156.8	143.5
87.5°	140.9	142.2	143.5	144.9	146.2	147.5	148.9	150.2	148.9	142.2	130.2
90°	130.2	130.2	131.6	131.6	132.9	134.2	136.9	136.9	135.6	130.2	118.3
92.5°	118.3	119.6	119.6	120.9	122.3	123.6	124.9	124.9	123.6	118.3	107.7
95°	110.3	110.3	111.6	111.6	113.0	113.0	114.3	114.3	113.0	107.7	97.0
97.5°	101.0	101.0	101.0	101.0	102.3	102.3	103.7	103.7	102.3	97.0	87.7
100°	93.0	93.0	93.0	93.0	93.0	94.4	94.4	94.4	93.0	87.7	78.4
102.5°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	83.7	79.7	70.4
105°	82.4	82.4	82.4	81.1	81.1	81.1	79.7	79.7	75.8	71.8	63.8
107.5°	77.1	77.1	77.1	75.8	75.8	74.4	73.1	73.1	69.1	65.1	57.1
110°	73.1	73.1	73.1	71.8	70.4	69.1	67.8	66.5	62.5	57.1	50.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	69.1	69.1	67.8	67.8	66.5	65.1	62.5	61.1	57.1	51.8	45.2
115°	63.8	63.8	63.8	62.5	61.1	59.8	58.5	55.8	51.8	46.5	39.9
117.5°	58.5	58.5	58.5	57.1	55.8	54.5	53.2	50.5	46.5	41.2	35.9
120°	53.2	53.2	53.2	51.8	50.5	49.2	47.8	45.2	41.2	37.2	30.6
122.5°	49.2	49.2	47.8	46.5	45.2	43.9	42.5	39.9	37.2	31.9	26.6
125°	43.9	43.9	42.5	42.5	41.2	39.9	38.5	35.9	31.9	27.9	23.9
127.5°	39.9	38.5	38.5	38.5	37.2	35.9	33.2	31.9	27.9	23.9	19.9
130°	34.6	34.6	34.6	33.2	33.2	31.9	29.2	26.6	23.9	21.3	17.3
132.5°	30.6	30.6	30.6	30.6	29.2	27.9	25.3	23.9	21.3	17.3	14.6
135°	27.9	27.9	26.6	26.6	25.3	23.9	22.6	19.9	17.3	14.6	12.0
137.5°	23.9	23.9	23.9	22.6	22.6	21.3	18.6	17.3	15.9	13.3	10.6
140°	21.3	21.3	19.9	19.9	18.6	18.6	17.3	14.6	13.3	10.6	9.3
142.5°	18.6	18.6	17.3	17.3	15.9	15.9	14.6	13.3	10.6	9.3	6.6
145°	15.9	15.9	14.6	14.6	14.6	13.3	12.0	10.6	9.3	8.0	6.6
147.5°	13.3	13.3	13.3	12.0	12.0	10.6	10.6	9.3	8.0	6.6	5.3
150°	12.0	12.0	10.6	10.6	10.6	9.3	8.0	8.0	6.6	5.3	4.0
152.5°	9.3	9.3	9.3	9.3	8.0	8.0	6.6	6.6	5.3	4.0	4.0
155°	8.0	8.0	8.0	6.6	6.6	6.6	5.3	5.3	4.0	4.0	2.7
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1	2573.1
2.5°	2558.4	2557.1	2569.1	2567.7	2551.8	2575.7	2591.7
5°	2551.8	2550.5	2561.1	2563.8	2546.5	2571.7	2589.0
7.5°	2546.5	2545.1	2557.1	2561.1	2543.8	2566.4	2585.0
10°	2547.8	2541.2	2551.8	2554.5	2538.5	2562.4	2578.4
12.5°	2557.1	2541.2	2545.1	2545.1	2530.5	2551.8	2569.1
15°	2579.7	2546.5	2541.2	2537.2	2518.6	2538.5	2555.8
17.5°	2605.0	2559.8	2541.2	2527.9	2505.3	2522.6	2541.2
20°	2630.2	2574.4	2543.8	2522.6	2492.0	2507.9	2521.2
22.5°	2642.2	2587.7	2546.5	2514.6	2476.0	2484.0	2498.6
25°	2626.2	2582.4	2541.2	2502.6	2456.1	2457.4	2469.4
27.5°	2567.7	2555.8	2529.2	2490.7	2440.2	2433.5	2442.8
30°	2468.1	2501.3	2502.6	2474.7	2421.5	2408.3	2412.2
32.5°	2328.5	2402.9	2446.8	2441.5	2395.0	2376.4	2379.0
35°	2167.7	2260.7	2356.4	2388.3	2355.1	2340.5	2335.2
37.5°	1975.0	2099.9	2227.5	2305.9	2300.6	2291.3	2286.0
40°	1762.3	1912.5	2064.0	2189.0	2227.5	2227.5	2230.2
42.5°	1535.1	1710.5	1876.6	2034.8	2125.2	2145.1	2153.1
45°	1315.8	1492.5	1673.3	1855.4	1976.3	2038.8	2061.4
47.5°	1116.4	1294.5	1466.0	1665.3	1826.1	1907.2	1943.1
50°	946.3	1079.2	1259.9	1458.0	1633.4	1733.1	1803.5
52.5°	805.4	909.1	1067.2	1252.0	1428.7	1565.6	1630.8
55°	687.1	757.6	891.8	1051.3	1220.1	1362.3	1438.0
57.5°	587.4	643.3	735.0	867.9	1010.1	1151.0	1232.0
60°	499.7	538.3	600.7	705.7	826.7	947.6	1026.0
62.5°	424.0	449.2	490.4	567.5	661.9	756.2	829.3
65°	365.5	376.1	398.7	446.6	518.3	590.1	652.6
67.5°	308.3	315.0	332.3	361.5	397.4	449.2	490.4
70°	265.8	265.8	267.1	284.4	303.0	336.3	365.5
72.5°	231.3	227.3	219.3	223.3	227.3	245.9	264.5
75°	203.3	194.0	180.8	175.4	172.8	175.4	186.1
77.5°	179.4	166.1	150.2	136.9	126.3	122.3	131.6
80°	159.5	143.5	124.9	107.7	90.4	81.1	85.1
82.5°	143.5	123.6	103.7	83.7	63.8	50.5	50.5
85°	126.3	107.7	86.4	65.1	45.2	27.9	25.3
87.5°	114.3	94.4	71.8	51.8	31.9	14.6	8.0
90°	102.3	82.4	61.1	41.2	22.6	6.6	0.0
92.5°	91.7	73.1	53.2	33.2	15.9	4.0	0.0
95°	82.4	65.1	45.2	27.9	13.3	2.7	1.3
97.5°	73.1	57.1	39.9	22.6	9.3	2.7	1.3
100°	66.5	50.5	34.6	18.6	8.0	1.3	1.3
102.5°	58.5	45.2	29.2	15.9	6.6	1.3	1.3
105°	51.8	39.9	25.3	13.3	5.3	1.3	1.3
107.5°	46.5	34.6	22.6	12.0	5.3	1.3	1.3
110°	41.2	30.6	19.9	10.6	4.0	1.3	1.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	37.2	26.6	17.3	9.3	2.7	1.3	1.3
115°	31.9	23.9	14.6	8.0	2.7	1.3	1.3
117.5°	27.9	19.9	13.3	6.6	2.7	1.3	1.3
120°	23.9	17.3	10.6	5.3	1.3	1.3	1.3
122.5°	21.3	14.6	9.3	5.3	1.3	1.3	1.3
125°	18.6	13.3	8.0	4.0	1.3	1.3	1.3
127.5°	15.9	10.6	6.6	2.7	1.3	1.3	1.3
130°	13.3	9.3	5.3	2.7	1.3	1.3	1.3
132.5°	10.6	8.0	5.3	2.7	1.3	1.3	1.3
135°	9.3	6.6	4.0	2.7	1.3	1.3	1.3
137.5°	8.0	5.3	2.7	2.7	2.7	1.3	1.3
140°	6.6	4.0	2.7	2.7	2.7	2.7	1.3
142.5°	5.3	4.0	2.7	2.7	2.7	2.7	1.3
145°	4.0	2.7	2.7	2.7	2.7	2.7	1.3
147.5°	4.0	2.7	2.7	2.7	2.7	2.7	1.3
150°	2.7	2.7	2.7	2.7	2.7	2.7	2.7
152.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7
155°	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)