

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: **4SNLED-LD5-76HL-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: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

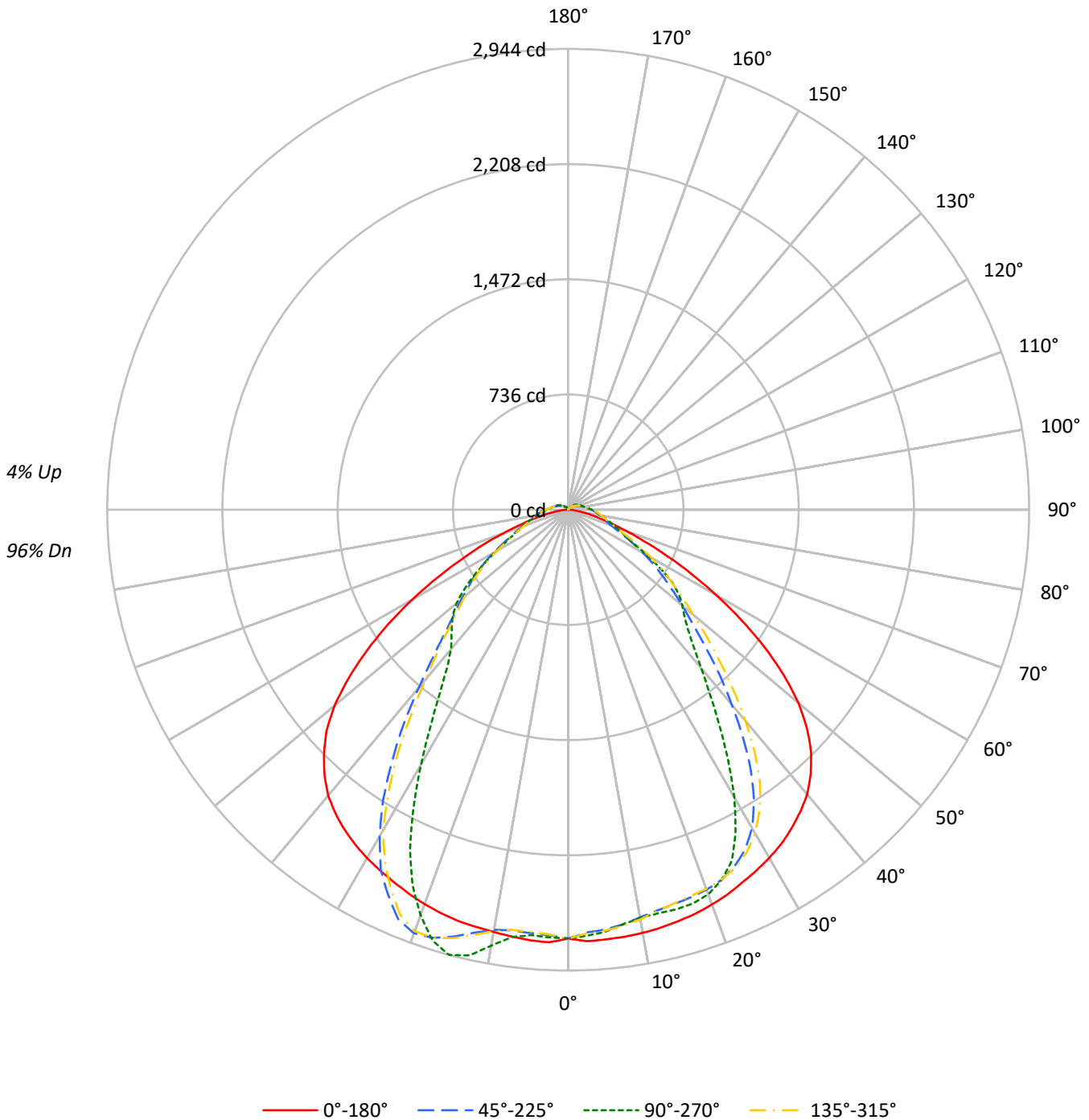
Lumens per Lamp: N/A
Luminaire Lumens: 6530.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 62
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



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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°	22136	22136	22136	22136
5°	22296	21258	22342	21425
10°	22400	20374	22354	21757
15°	22573	20101	22562	22381
20°	22822	19783	22798	20852
25°	23103	18767	23091	18133
30°	23538	16265	23551	14409
35°	23999	13153	24067	11130
40°	24404	10590	24506	9330
45°	24318	8970	24445	8735
50°	23271	8259	23596	8075
55°	20647	7423	21162	6748
60°	16747	5682	17637	5210
65°	12449	4347	13413	4122
70°	8466	3752	9544	3587
75°	5539	3385	6448	3202
80°	3581	3156	4194	2905
85°	1838	3149	2418	2876



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.2	4.0
10°-20°	774.2	11.9
20°-30°	1176.9	18.0
30°-40°	1262.6	19.3
40°-50°	1095.8	16.8
50°-60°	812.1	12.4
60°-70°	465.3	7.1
70°-80°	257.7	3.9
80°-90°	156.9	2.4
90°-100°	102.0	1.6
100°-110°	68.3	1.0
110°-120°	46.1	0.7
120°-130°	28.3	0.4
130°-140°	14.9	0.2
140°-150°	6.8	0.1
150°-160°	2.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2211.3	33.9
0°-40°	3473.8	53.2
0°-60°	5381.7	82.4
0°-90°	6261.5	95.9
90°-120°	216.5	3.3
90°-150°	266.5	4.1
90°-180°	268.0	4.1
0°-180°	6530.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2739	2739	2739	2739	2739	
5°	2756	2707	2762	2728	2756	263
15°	2721	2644	2719	2944	2721	770
25°	2629	2473	2627	2390	2629	1215
35°	2486	1684	2493	1425	2486	1556
45°	2194	1080	2206	1051	2194	1680
55°	1531	809	1569	736	1531	1358
65°	695	410	748	389	695	700
75°	198	260	231	246	198	226
85°	27	180	35	164	27	35
90°	0	150	3	139	0	1
95°	1	123	0	117	1	1
105°	1	92	1	88	1	1
115°	1	75	1	68	1	1
125°	1	57	1	47	1	1
135°	1	35	1	30	1	1
145°	1	21	3	17	1	1
155°	3	10	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2
2.5°	2759.0	2751.9	2749.1	2743.4	2747.7	2764.6	2753.3	2734.9	2736.3	2703.8	2720.8
5°	2756.1	2747.7	2743.4	2737.8	2740.6	2756.1	2744.8	2726.4	2725.0	2692.5	2708.0
7.5°	2751.9	2743.4	2736.3	2732.1	2733.5	2746.2	2732.1	2710.9	2706.6	2671.3	2685.4
10°	2744.8	2739.2	2729.3	2722.2	2720.8	2734.9	2712.3	2691.1	2681.2	2644.4	2658.5
12.5°	2734.9	2726.4	2716.5	2703.8	2702.4	2710.9	2692.5	2662.8	2652.9	2623.2	2638.7
15°	2720.8	2710.9	2699.6	2685.4	2678.3	2684.0	2661.4	2634.5	2633.1	2607.6	2628.8
17.5°	2705.2	2691.1	2678.3	2658.5	2648.6	2652.9	2634.5	2610.4	2613.2	2597.7	2621.7
20°	2684.0	2668.4	2648.6	2628.8	2614.7	2621.7	2609.0	2590.6	2594.9	2583.5	2604.8
22.5°	2659.9	2638.7	2614.7	2592.0	2580.7	2590.6	2580.7	2565.1	2566.6	2559.5	2572.2
25°	2628.8	2604.8	2576.5	2548.2	2542.5	2549.6	2543.9	2531.2	2525.5	2514.2	2519.9
27.5°	2600.5	2573.6	2538.3	2508.5	2498.6	2512.8	2500.1	2478.8	2463.3	2447.7	2436.4
30°	2568.0	2535.4	2495.8	2461.9	2453.4	2459.0	2440.6	2408.1	2367.1	2347.3	2316.1
32.5°	2532.6	2490.2	2440.6	2402.4	2396.8	2392.5	2358.6	2311.9	2248.2	2208.6	2160.5
35°	2485.9	2439.2	2379.8	2333.1	2324.6	2300.6	2245.4	2183.1	2101.1	2033.2	1951.1
37.5°	2433.6	2378.4	2316.1	2253.9	2229.8	2181.7	2103.9	2038.8	1914.3	1832.2	1733.2
40°	2374.1	2307.6	2231.2	2156.2	2116.6	2038.8	1949.7	1853.5	1733.2	1622.8	1539.4
42.5°	2292.1	2221.3	2130.8	2047.3	1979.4	1876.1	1771.4	1635.6	1525.2	1431.8	1346.9
45°	2194.4	2109.6	2004.9	1904.4	1818.1	1695.0	1571.9	1436.1	1344.1	1235.2	1177.2
47.5°	2068.5	1976.6	1864.8	1753.0	1639.8	1504.0	1375.2	1245.1	1153.1	1075.3	1032.8
50°	1920.0	1835.1	1712.0	1579.0	1454.5	1313.0	1184.2	1086.6	997.5	949.4	916.8
52.5°	1736.0	1656.8	1530.9	1386.6	1266.3	1127.6	1010.2	931.0	867.3	831.9	820.6
55°	1530.9	1461.6	1337.0	1202.6	1079.5	952.2	863.1	793.7	752.7	731.5	732.9
57.5°	1311.6	1257.8	1140.4	1020.1	904.1	807.9	727.2	672.1	640.9	639.5	643.8
60°	1092.3	1052.7	950.8	847.5	745.6	667.8	608.4	570.2	550.4	551.8	550.4
62.5°	882.9	846.1	772.5	687.6	607.0	554.6	500.9	485.3	468.3	466.9	466.9
65°	694.7	666.4	607.0	546.1	485.3	451.3	424.5	406.1	393.3	390.5	391.9
67.5°	522.1	510.8	469.7	428.7	390.5	369.3	346.6	342.4	332.5	332.5	335.3
70°	389.1	380.6	358.0	333.9	318.3	304.2	292.9	292.9	291.5	290.0	297.1
72.5°	281.6	283.0	275.9	257.5	256.1	253.3	250.4	254.7	256.1	260.3	268.8
75°	198.1	202.3	202.3	199.5	205.2	212.2	216.5	223.5	232.0	237.7	247.6
77.5°	140.1	140.1	147.1	155.6	167.0	179.7	191.0	200.9	212.2	219.3	227.8
80°	90.6	94.8	106.1	121.7	137.2	154.2	169.8	182.5	193.8	205.2	210.8
82.5°	53.8	60.8	75.0	94.8	114.6	135.8	151.4	167.0	179.7	191.0	195.3
85°	26.9	36.8	53.8	75.0	96.2	118.8	138.7	152.8	167.0	176.9	182.5
87.5°	8.5	19.8	38.2	58.0	80.6	103.3	124.5	140.1	152.8	161.3	167.0
90°	0.0	9.9	26.9	48.1	69.3	92.0	111.8	128.8	141.5	148.6	152.8
92.5°	0.0	5.7	21.2	39.6	59.4	82.1	101.9	117.4	128.8	135.8	138.7
95°	1.4	4.2	15.6	32.5	52.3	73.6	92.0	106.1	117.4	124.5	125.9
97.5°	1.4	2.8	12.7	26.9	45.3	65.1	83.5	97.6	106.1	113.2	114.6
100°	1.4	2.8	9.9	24.1	39.6	58.0	75.0	87.7	97.6	103.3	104.7
102.5°	1.4	1.4	8.5	19.8	35.4	50.9	66.5	79.2	87.7	93.4	96.2
105°	1.4	1.4	7.1	17.0	31.1	45.3	59.4	72.2	79.2	84.9	87.7
107.5°	1.4	1.4	5.7	14.1	26.9	39.6	53.8	63.7	72.2	77.8	80.6
110°	1.4	1.4	4.2	12.7	22.6	35.4	46.7	56.6	65.1	70.7	73.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.4	1.4	4.2	11.3	19.8	31.1	41.0	50.9	58.0	63.7	67.9
115°	1.4	1.4	4.2	9.9	18.4	26.9	36.8	45.3	52.3	58.0	62.3
117.5°	1.4	1.4	4.2	8.5	15.6	24.1	32.5	41.0	46.7	52.3	56.6
120°	1.4	1.4	2.8	7.1	14.1	21.2	28.3	35.4	42.4	48.1	52.3
122.5°	1.4	1.4	2.8	7.1	11.3	18.4	25.5	31.1	38.2	42.4	46.7
125°	1.4	1.4	2.8	5.7	9.9	17.0	22.6	28.3	32.5	38.2	42.4
127.5°	1.4	1.4	2.8	5.7	8.5	14.1	19.8	25.5	29.7	34.0	36.8
130°	1.4	1.4	2.8	4.2	7.1	11.3	17.0	21.2	26.9	29.7	32.5
132.5°	1.4	1.4	1.4	4.2	5.7	8.5	12.7	18.4	22.6	26.9	28.3
135°	1.4	1.4	1.4	2.8	5.7	7.1	9.9	14.1	18.4	22.6	25.5
137.5°	1.4	1.4	1.4	2.8	4.2	7.1	8.5	11.3	15.6	18.4	22.6
140°	1.4	1.4	1.4	2.8	4.2	5.7	7.1	9.9	12.7	15.6	18.4
142.5°	1.4	1.4	1.4	2.8	2.8	4.2	5.7	8.5	9.9	12.7	15.6
145°	1.4	1.4	1.4	2.8	2.8	4.2	5.7	7.1	8.5	9.9	12.7
147.5°	1.4	1.4	1.4	2.8	2.8	2.8	4.2	5.7	7.1	8.5	9.9
150°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	5.7	7.1	8.5
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	5.7	7.1
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	5.7	5.7
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2
2.5°	2715.1	2717.9	2734.9	2733.5	2730.7	2727.9	2727.9	2725.0	2727.9	2734.9	2732.1
5°	2701.0	2705.2	2717.9	2716.5	2713.7	2712.3	2710.9	2706.6	2709.5	2719.4	2716.5
7.5°	2675.5	2679.7	2691.1	2685.4	2681.2	2684.0	2676.9	2672.7	2678.3	2688.2	2686.8
10°	2648.6	2651.4	2665.6	2662.8	2655.7	2657.1	2650.0	2647.2	2654.3	2659.9	2661.4
12.5°	2630.2	2640.1	2652.9	2651.4	2650.0	2651.4	2644.4	2641.5	2645.8	2651.4	2650.0
15°	2626.0	2638.7	2652.9	2652.9	2654.3	2655.7	2648.6	2644.4	2648.6	2652.9	2651.4
17.5°	2621.7	2637.3	2650.0	2648.6	2650.0	2652.9	2641.5	2638.7	2644.4	2650.0	2647.2
20°	2607.6	2621.7	2630.2	2627.4	2627.4	2628.8	2614.7	2614.7	2623.2	2627.4	2628.8
22.5°	2568.0	2584.9	2584.9	2577.9	2577.9	2572.2	2568.0	2559.5	2569.4	2576.5	2582.1
25°	2508.5	2515.6	2507.1	2491.6	2483.1	2476.0	2456.2	2473.2	2473.2	2494.4	2501.5
27.5°	2425.1	2409.5	2385.5	2352.9	2345.8	2323.2	2310.5	2314.7	2321.8	2351.5	2374.1
30°	2287.8	2241.1	2200.1	2186.0	2154.8	2132.2	2109.6	2120.9	2133.6	2150.6	2197.3
32.5°	2106.7	2061.5	1995.0	1970.9	1938.4	1910.1	1883.2	1900.2	1922.8	1934.1	1985.0
35°	1898.7	1845.0	1784.1	1743.1	1709.2	1693.6	1659.6	1683.7	1707.7	1716.2	1760.1
37.5°	1678.0	1622.8	1569.1	1533.7	1501.2	1491.3	1468.6	1485.6	1504.0	1516.7	1553.5
40°	1468.6	1417.7	1376.7	1352.6	1330.0	1321.5	1313.0	1320.1	1334.2	1344.1	1372.4
42.5°	1288.9	1247.9	1219.6	1205.5	1189.9	1178.6	1180.0	1182.8	1189.9	1211.1	1223.9
45°	1131.9	1107.8	1089.4	1086.6	1076.7	1075.3	1073.9	1079.5	1083.8	1096.5	1106.4
47.5°	1006.0	996.1	991.8	997.5	1001.7	996.1	998.9	1006.0	1014.5	1014.5	1013.0
50°	906.9	909.8	915.4	928.1	936.6	939.5	942.3	950.8	952.2	955.0	950.8
52.5°	826.3	829.1	844.7	864.5	874.4	878.6	884.3	892.8	892.8	895.6	889.9
55°	744.2	748.5	764.0	783.8	792.3	798.0	803.6	809.3	813.5	819.2	815.0
57.5°	653.7	666.4	676.3	682.0	687.6	691.9	696.1	697.5	706.0	707.4	714.5
60°	557.5	560.3	570.2	568.8	564.5	575.8	570.2	580.1	590.0	602.7	604.1
62.5°	465.5	466.9	474.0	471.1	476.8	475.4	479.6	479.6	486.7	492.4	499.4
65°	393.3	394.7	400.4	400.4	399.0	403.2	407.5	410.3	410.3	414.6	420.2
67.5°	339.6	343.8	349.5	352.3	355.1	355.1	359.4	360.8	363.6	365.0	367.9
70°	302.8	308.4	314.1	316.9	318.3	321.2	322.6	322.6	325.4	326.8	329.7
72.5°	275.9	281.6	285.8	285.8	288.6	290.0	290.0	291.5	292.9	295.7	298.5
75°	253.3	257.5	260.3	258.9	258.9	258.9	260.3	260.3	263.2	266.0	268.8
77.5°	232.0	236.3	236.3	233.5	233.5	233.5	233.5	234.9	236.3	239.1	241.9
80°	216.5	216.5	215.1	215.1	212.2	210.8	210.8	212.2	212.2	215.1	219.3
82.5°	199.5	199.5	198.1	196.7	195.3	193.8	193.8	195.3	196.7	198.1	200.9
85°	183.9	183.9	181.1	181.1	179.7	179.7	179.7	179.7	181.1	182.5	185.3
87.5°	168.4	167.0	165.5	164.1	164.1	164.1	164.1	164.1	165.5	168.4	169.8
90°	152.8	151.4	150.0	150.0	148.6	148.6	150.0	150.0	151.4	152.8	154.2
92.5°	138.7	137.2	135.8	135.8	134.4	134.4	135.8	134.4	137.2	137.2	138.7
95°	125.9	124.5	123.1	123.1	123.1	123.1	123.1	123.1	124.5	124.5	125.9
97.5°	114.6	113.2	111.8	111.8	113.2	111.8	113.2	113.2	113.2	114.6	116.0
100°	104.7	103.3	103.3	104.7	103.3	103.3	104.7	104.7	104.7	104.7	106.1
102.5°	96.2	96.2	96.2	96.2	96.2	96.2	97.6	97.6	97.6	97.6	99.0
105°	87.7	89.1	89.1	89.1	90.6	90.6	90.6	92.0	92.0	92.0	92.0
107.5°	82.1	83.5	83.5	84.9	84.9	86.3	86.3	86.3	86.3	87.7	87.7
110°	76.4	77.8	79.2	80.6	80.6	82.1	82.1	82.1	82.1	82.1	82.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	70.7	72.2	73.6	76.4	77.8	77.8	77.8	77.8	79.2	79.2	77.8
115°	65.1	67.9	69.3	72.2	73.6	73.6	75.0	75.0	75.0	75.0	73.6
117.5°	59.4	63.7	65.1	67.9	69.3	69.3	70.7	70.7	70.7	70.7	69.3
120°	55.2	58.0	60.8	62.3	63.7	65.1	65.1	66.5	66.5	66.5	65.1
122.5°	50.9	53.8	56.6	58.0	59.4	60.8	60.8	60.8	60.8	60.8	60.8
125°	45.3	48.1	50.9	52.3	53.8	55.2	55.2	56.6	56.6	56.6	55.2
127.5°	41.0	43.9	45.3	48.1	49.5	49.5	50.9	50.9	50.9	50.9	49.5
130°	35.4	38.2	41.0	42.4	43.9	43.9	45.3	45.3	45.3	45.3	45.3
132.5°	31.1	34.0	35.4	38.2	38.2	39.6	39.6	41.0	41.0	41.0	39.6
135°	28.3	29.7	31.1	34.0	34.0	35.4	35.4	35.4	35.4	35.4	35.4
137.5°	25.5	26.9	28.3	29.7	29.7	31.1	31.1	31.1	31.1	32.5	31.1
140°	21.2	24.1	25.5	25.5	26.9	26.9	26.9	28.3	28.3	28.3	26.9
142.5°	18.4	19.8	21.2	22.6	24.1	24.1	24.1	24.1	25.5	24.1	24.1
145°	14.1	17.0	18.4	19.8	21.2	21.2	21.2	21.2	21.2	21.2	21.2
147.5°	11.3	12.7	15.6	17.0	17.0	18.4	18.4	18.4	18.4	18.4	18.4
150°	9.9	9.9	12.7	14.1	15.6	15.6	15.6	15.6	15.6	15.6	15.6
152.5°	7.1	8.5	9.9	11.3	12.7	12.7	12.7	12.7	12.7	12.7	12.7
155°	7.1	7.1	8.5	8.5	9.9	9.9	9.9	9.9	11.3	9.9	9.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2
2.5°	2727.9	2726.4	2732.1	2726.4	2698.1	2709.5	2705.2	2720.8	2722.2	2726.4	2740.6
5°	2713.7	2713.7	2720.8	2715.1	2688.2	2699.6	2698.1	2713.7	2716.5	2719.4	2734.9
7.5°	2685.4	2686.8	2696.7	2692.5	2664.2	2681.2	2679.7	2698.1	2703.8	2709.5	2723.6
10°	2658.5	2657.1	2668.4	2664.2	2637.3	2657.1	2655.7	2674.1	2682.6	2692.5	2709.5
12.5°	2644.4	2640.1	2644.4	2640.1	2610.4	2626.0	2627.4	2648.6	2658.5	2671.3	2691.1
15°	2644.4	2637.3	2637.3	2628.8	2594.9	2604.8	2606.2	2620.3	2633.1	2645.8	2669.8
17.5°	2641.5	2634.5	2633.1	2626.0	2589.2	2589.2	2587.8	2597.7	2604.8	2617.5	2643.0
20°	2626.0	2623.2	2621.7	2617.5	2583.5	2577.9	2575.0	2575.0	2579.3	2583.5	2609.0
22.5°	2584.9	2587.8	2590.6	2593.4	2566.6	2556.7	2558.1	2555.2	2551.0	2551.0	2572.2
25°	2508.5	2522.7	2534.0	2546.7	2531.2	2524.1	2532.6	2528.4	2521.3	2515.6	2534.0
27.5°	2386.9	2416.6	2440.6	2471.8	2473.2	2467.5	2490.2	2487.3	2485.9	2477.4	2491.6
30°	2218.5	2265.2	2297.7	2343.0	2381.2	2386.9	2425.1	2430.7	2436.4	2432.1	2446.3
32.5°	2014.8	2078.4	2133.6	2204.4	2241.1	2273.7	2327.4	2350.1	2372.7	2379.8	2395.4
35°	1792.6	1864.8	1929.9	2007.7	2065.7	2136.4	2201.5	2235.5	2286.4	2306.2	2328.9
37.5°	1581.8	1649.7	1713.4	1791.2	1884.6	1958.2	2038.8	2115.2	2184.5	2212.8	2246.8
40°	1395.1	1450.2	1511.1	1579.0	1663.9	1760.1	1847.8	1953.9	2036.0	2092.6	2142.1
42.5°	1253.6	1280.4	1332.8	1393.6	1461.6	1559.2	1648.3	1767.2	1866.2	1946.8	2028.9
45°	1127.6	1140.4	1178.6	1211.1	1280.4	1366.8	1461.6	1577.6	1680.9	1784.1	1883.2
47.5°	1020.1	1035.7	1054.1	1073.9	1123.4	1195.6	1277.6	1382.3	1485.6	1605.9	1719.1
50°	948.0	952.2	955.0	963.5	993.2	1042.8	1109.3	1198.4	1297.4	1426.2	1546.4
52.5°	884.3	884.3	875.8	871.6	882.9	914.0	952.2	1015.9	1117.7	1236.6	1363.9
55°	816.4	803.6	800.8	786.7	789.5	803.6	822.0	871.6	955.0	1056.9	1180.0
57.5°	721.6	715.9	715.9	710.3	698.9	706.0	710.3	745.6	805.1	892.8	1000.3
60°	612.6	609.8	616.9	618.3	608.4	612.6	611.2	632.4	674.9	745.6	834.8
62.5°	503.7	516.4	517.8	523.5	517.8	516.4	523.5	541.9	563.1	616.9	686.2
65°	423.0	430.1	431.5	438.6	435.8	435.8	441.4	455.6	468.3	505.1	558.9
67.5°	370.7	367.9	369.3	373.5	369.3	367.9	372.1	380.6	390.5	413.1	451.3
70°	329.7	326.8	326.8	326.8	321.2	316.9	318.3	321.2	325.4	338.2	362.2
72.5°	298.5	298.5	294.3	290.0	285.8	283.0	280.1	277.3	275.9	280.1	292.9
75°	270.2	271.7	270.2	266.0	260.3	254.7	249.0	243.4	236.3	233.5	234.9
77.5°	244.8	246.2	247.6	246.2	240.5	233.5	225.0	216.5	206.6	196.7	191.0
80°	222.1	225.0	226.4	225.0	220.7	215.1	205.2	195.3	181.1	168.4	154.2
82.5°	202.3	206.6	208.0	208.0	205.2	199.5	188.2	176.9	161.3	144.3	125.9
85°	186.8	189.6	192.4	192.4	191.0	185.3	174.0	161.3	145.7	125.9	106.1
87.5°	171.2	172.6	175.4	178.3	175.4	169.8	159.9	145.7	130.2	110.4	87.7
90°	155.6	157.0	159.9	162.7	161.3	155.6	147.1	134.4	117.4	96.2	73.6
92.5°	140.1	142.9	144.3	145.7	147.1	142.9	135.8	123.1	106.1	84.9	63.7
95°	128.8	128.8	131.6	133.0	134.4	130.2	124.5	111.8	96.2	76.4	55.2
97.5°	117.4	117.4	120.3	120.3	121.7	118.8	113.2	101.9	86.3	67.9	46.7
100°	106.1	107.5	108.9	110.4	110.4	108.9	103.3	92.0	77.8	60.8	41.0
102.5°	99.0	99.0	100.5	100.5	101.9	99.0	93.4	83.5	69.3	53.8	35.4
105°	92.0	92.0	93.4	93.4	92.0	89.1	83.5	75.0	62.3	46.7	31.1
107.5°	86.3	86.3	86.3	86.3	84.9	82.1	76.4	66.5	55.2	42.4	28.3
110°	82.1	80.6	80.6	79.2	77.8	73.6	67.9	59.4	49.5	36.8	24.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	77.8	76.4	75.0	73.6	70.7	66.5	60.8	53.8	43.9	32.5	21.2
115°	73.6	72.2	70.7	67.9	65.1	60.8	55.2	48.1	38.2	28.3	18.4
117.5°	69.3	67.9	65.1	62.3	59.4	55.2	49.5	42.4	34.0	25.5	17.0
120°	63.7	62.3	60.8	58.0	55.2	49.5	43.9	38.2	29.7	22.6	14.1
122.5°	59.4	58.0	55.2	53.8	49.5	45.3	39.6	34.0	26.9	19.8	12.7
125°	53.8	52.3	50.9	48.1	45.3	39.6	35.4	29.7	24.1	17.0	9.9
127.5°	49.5	48.1	45.3	42.4	39.6	35.4	31.1	26.9	21.2	14.1	9.9
130°	43.9	42.4	41.0	38.2	35.4	31.1	28.3	22.6	18.4	12.7	8.5
132.5°	38.2	38.2	36.8	34.0	31.1	28.3	24.1	19.8	15.6	11.3	7.1
135°	35.4	34.0	32.5	29.7	28.3	24.1	21.2	17.0	12.7	9.9	5.7
137.5°	31.1	29.7	28.3	26.9	24.1	21.2	18.4	14.1	11.3	8.5	5.7
140°	26.9	25.5	25.5	22.6	21.2	18.4	15.6	12.7	9.9	7.1	4.2
142.5°	24.1	22.6	21.2	19.8	18.4	15.6	12.7	9.9	8.5	5.7	4.2
145°	21.2	19.8	18.4	17.0	15.6	12.7	11.3	8.5	7.1	5.7	4.2
147.5°	17.0	17.0	15.6	14.1	12.7	11.3	9.9	8.5	5.7	4.2	2.8
150°	14.1	14.1	12.7	11.3	11.3	9.9	8.5	7.1	5.7	4.2	2.8
152.5°	12.7	11.3	11.3	9.9	9.9	8.5	7.1	5.7	4.2	4.2	2.8
155°	9.9	9.9	9.9	8.5	8.5	7.1	5.7	5.7	4.2	2.8	2.8
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: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2
2.5°	2743.4	2726.4	2740.6	2766.1	2763.2	2760.4	2757.6	2763.2	2781.6	2771.7	2756.1
5°	2739.2	2722.2	2737.8	2761.8	2760.4	2756.1	2753.3	2759.0	2777.4	2767.5	2750.5
7.5°	2730.7	2715.1	2726.4	2750.5	2750.5	2747.7	2744.8	2750.5	2767.5	2759.0	2742.0
10°	2716.5	2705.2	2716.5	2739.2	2740.6	2734.9	2732.1	2739.2	2756.1	2751.9	2737.8
12.5°	2705.2	2693.9	2706.6	2729.3	2730.7	2725.0	2720.8	2729.3	2751.9	2754.7	2750.5
15°	2689.6	2679.7	2695.3	2719.4	2719.4	2715.1	2715.1	2726.4	2757.6	2770.3	2777.4
17.5°	2667.0	2659.9	2678.3	2702.4	2703.8	2701.0	2702.4	2725.0	2766.1	2797.2	2817.0
20°	2638.7	2635.9	2655.7	2681.2	2685.4	2686.8	2693.9	2727.9	2784.4	2826.9	2846.7
22.5°	2604.8	2606.2	2628.8	2655.7	2661.4	2665.6	2679.7	2727.9	2798.6	2843.9	2852.4
25°	2566.6	2570.8	2594.9	2627.4	2634.5	2643.0	2667.0	2729.3	2802.8	2832.6	2818.4
27.5°	2525.5	2534.0	2565.1	2599.1	2607.6	2621.7	2652.9	2720.8	2783.0	2784.4	2732.1
30°	2483.1	2493.0	2529.8	2569.4	2583.5	2597.7	2635.9	2701.0	2734.9	2689.6	2597.7
32.5°	2435.0	2449.1	2485.9	2534.0	2551.0	2569.4	2607.6	2662.8	2650.0	2552.4	2420.8
35°	2374.1	2393.9	2436.4	2493.0	2508.5	2532.6	2559.5	2572.2	2515.6	2377.0	2228.4
37.5°	2299.1	2328.9	2378.4	2443.5	2460.4	2476.0	2483.1	2447.7	2334.5	2184.5	2030.3
40°	2212.8	2258.1	2311.9	2384.0	2401.0	2401.0	2375.6	2300.6	2157.7	1961.0	1789.8
42.5°	2108.1	2163.3	2231.2	2303.4	2320.4	2300.6	2239.7	2108.1	1945.4	1726.1	1545.0
45°	1980.8	2054.4	2130.8	2205.8	2214.3	2170.4	2061.5	1894.5	1693.6	1489.8	1317.2
47.5°	1829.4	1925.6	2009.1	2094.0	2082.7	2009.1	1863.4	1673.8	1461.6	1269.1	1130.5
50°	1659.6	1772.8	1866.2	1946.8	1922.8	1820.9	1649.7	1451.6	1240.8	1076.7	962.1
52.5°	1478.5	1608.7	1702.1	1767.2	1734.6	1612.9	1424.8	1235.2	1062.6	912.6	836.2
55°	1290.4	1421.9	1518.1	1569.1	1526.6	1395.1	1209.7	1037.1	874.4	776.8	731.5
57.5°	1107.8	1230.9	1321.5	1362.5	1308.7	1177.2	1006.0	860.2	742.8	660.7	638.1
60°	932.4	1032.8	1119.2	1150.3	1092.3	970.6	823.4	707.4	621.1	564.5	553.2
62.5°	769.7	851.7	919.7	943.7	887.1	792.3	665.0	578.7	517.8	489.5	475.4
65°	635.3	683.4	752.7	748.5	714.5	626.8	533.4	472.6	432.9	414.6	406.1
67.5°	499.4	543.3	587.2	592.8	550.4	489.5	428.7	384.8	363.6	353.7	349.5
70°	386.3	418.8	445.7	438.6	416.0	377.8	339.6	315.5	307.0	302.8	302.8
72.5°	300.0	316.9	329.7	321.2	307.0	287.2	268.8	258.9	260.3	263.2	266.0
75°	232.0	236.3	239.1	230.6	227.8	215.1	213.6	215.1	223.5	232.0	236.3
77.5°	178.3	172.6	168.4	159.9	161.3	159.9	167.0	178.3	191.0	203.7	215.1
80°	137.2	124.5	114.6	106.1	110.4	117.4	131.6	148.6	165.5	179.7	193.8
82.5°	106.1	87.7	73.6	65.1	73.6	84.9	103.3	124.5	144.3	159.9	175.4
85°	82.1	60.8	43.9	35.4	43.9	60.8	80.6	104.7	125.9	142.9	158.5
87.5°	63.7	43.9	24.1	14.1	24.1	42.4	65.1	87.7	108.9	128.8	144.3
90°	50.9	29.7	11.3	2.8	12.7	29.7	50.9	73.6	94.8	116.0	131.6
92.5°	41.0	21.2	5.7	0.0	7.1	22.6	42.4	63.7	84.9	104.7	120.3
95°	34.0	17.0	4.2	0.0	5.7	17.0	34.0	55.2	75.0	94.8	107.5
97.5°	28.3	12.7	2.8	0.0	2.8	14.1	28.3	46.7	66.5	84.9	97.6
100°	24.1	11.3	2.8	0.0	2.8	11.3	24.1	41.0	58.0	75.0	87.7
102.5°	19.8	8.5	1.4	1.4	1.4	8.5	21.2	35.4	50.9	66.5	79.2
105°	18.4	7.1	1.4	1.4	1.4	7.1	18.4	31.1	45.3	59.4	70.7
107.5°	15.6	5.7	1.4	1.4	1.4	5.7	15.6	26.9	41.0	53.8	63.7
110°	12.7	5.7	1.4	1.4	1.4	5.7	12.7	24.1	35.4	46.7	56.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	11.3	4.2	1.4	1.4	1.4	4.2	11.3	21.2	31.1	42.4	50.9
115°	9.9	4.2	1.4	1.4	1.4	4.2	9.9	18.4	26.9	36.8	45.3
117.5°	8.5	4.2	1.4	1.4	1.4	2.8	8.5	15.6	24.1	32.5	41.0
120°	7.1	2.8	1.4	1.4	1.4	2.8	7.1	14.1	21.2	28.3	35.4
122.5°	7.1	2.8	1.4	1.4	1.4	2.8	5.7	11.3	18.4	24.1	31.1
125°	5.7	2.8	1.4	1.4	1.4	1.4	5.7	9.9	15.6	21.2	26.9
127.5°	5.7	2.8	1.4	1.4	1.4	1.4	4.2	8.5	12.7	18.4	24.1
130°	4.2	2.8	1.4	1.4	1.4	1.4	2.8	7.1	11.3	15.6	19.8
132.5°	4.2	2.8	1.4	1.4	1.4	1.4	2.8	5.7	8.5	12.7	17.0
135°	4.2	1.4	1.4	1.4	1.4	1.4	1.4	4.2	7.1	9.9	12.7
137.5°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	5.7	7.1	11.3
140°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	5.7	8.5
142.5°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	7.1
145°	2.8	1.4	1.4	2.8	2.8	1.4	1.4	2.8	2.8	4.2	5.7
147.5°	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.2
150°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2
2.5°	2753.3	2720.8	2737.8	2732.1	2737.8	2751.9	2750.5	2746.2	2749.1	2742.0	2734.9
5°	2747.7	2715.1	2732.1	2725.0	2732.1	2746.2	2743.4	2739.2	2743.4	2734.9	2727.9
7.5°	2740.6	2710.9	2730.7	2729.3	2742.0	2760.4	2761.8	2761.8	2771.7	2759.0	2753.3
10°	2740.6	2725.0	2751.9	2761.8	2794.3	2818.4	2821.2	2826.9	2843.9	2841.0	2826.9
12.5°	2770.3	2767.5	2807.1	2831.1	2860.8	2894.8	2913.2	2918.9	2930.2	2921.7	2916.0
15°	2808.5	2822.6	2866.5	2893.4	2925.9	2951.4	2955.6	2958.5	2967.0	2954.2	2944.3
17.5°	2859.4	2867.9	2903.3	2914.6	2935.8	2940.1	2934.4	2920.3	2920.3	2892.0	2883.5
20°	2883.5	2879.2	2893.4	2875.0	2866.5	2841.0	2817.0	2790.1	2788.7	2759.0	2756.1
22.5°	2862.3	2834.0	2804.3	2759.0	2739.2	2702.4	2669.8	2654.3	2644.4	2606.2	2596.3
25°	2787.3	2717.9	2674.1	2620.3	2572.2	2529.8	2498.6	2466.1	2435.0	2403.8	2389.7
27.5°	2657.1	2592.0	2521.3	2446.3	2379.8	2314.7	2262.4	2229.8	2200.1	2159.1	2137.9
30°	2497.2	2406.7	2328.9	2256.7	2147.8	2068.5	2024.7	1959.6	1936.9	1918.6	1878.9
32.5°	2309.1	2200.1	2094.0	1996.4	1884.6	1811.0	1753.0	1704.9	1690.8	1642.7	1631.3
35°	2101.1	1958.2	1837.9	1741.7	1661.0	1571.9	1523.8	1491.3	1463.0	1430.4	1424.8
37.5°	1856.3	1727.5	1591.7	1506.8	1443.2	1366.8	1330.0	1307.3	1294.6	1270.5	1266.3
40°	1610.1	1481.4	1388.0	1303.1	1263.5	1222.4	1195.6	1185.7	1180.0	1171.5	1163.0
42.5°	1386.6	1273.4	1206.9	1150.3	1133.3	1113.5	1106.4	1112.1	1106.4	1103.6	1102.2
45°	1197.0	1110.7	1064.0	1047.0	1042.8	1037.1	1042.8	1052.7	1054.1	1051.2	1051.2
47.5°	1024.4	983.3	963.5	966.3	973.4	977.7	987.6	1000.3	1003.1	996.1	998.9
50°	911.2	887.1	882.9	894.2	909.8	915.4	926.7	936.6	935.2	932.4	929.6
52.5°	805.1	798.0	809.3	820.6	837.6	840.4	844.7	848.9	847.5	841.8	839.0
55°	715.9	721.6	731.5	735.7	748.5	747.0	748.5	748.5	742.8	740.0	735.7
57.5°	635.3	636.7	642.3	643.8	650.8	648.0	646.6	643.8	635.3	633.9	629.6
60°	553.2	550.4	563.1	553.2	558.9	553.2	551.8	544.7	536.2	534.8	532.0
62.5°	475.4	469.7	478.2	474.0	476.8	471.1	468.3	459.8	452.8	451.3	449.9
65°	406.1	403.2	411.7	410.3	413.1	406.1	403.2	397.6	391.9	390.5	389.1
67.5°	348.1	355.1	359.4	359.4	362.2	360.8	353.7	352.3	350.9	345.2	345.2
70°	305.6	309.9	318.3	319.8	318.3	321.2	315.5	314.1	312.7	309.9	308.4
72.5°	271.7	277.3	285.8	287.2	285.8	285.8	283.0	281.6	281.6	277.3	277.3
75°	244.8	251.8	258.9	258.9	258.9	256.1	253.3	253.3	250.4	249.0	246.2
77.5°	222.1	230.6	236.3	234.9	233.5	230.6	230.6	226.4	222.1	222.1	219.3
80°	205.2	210.8	215.1	213.6	212.2	208.0	206.6	202.3	199.5	195.3	195.3
82.5°	186.8	193.8	196.7	195.3	192.4	188.2	186.8	183.9	181.1	179.7	176.9
85°	171.2	178.3	179.7	176.9	174.0	171.2	169.8	168.4	167.0	164.1	164.1
87.5°	155.6	162.7	162.7	161.3	158.5	157.0	155.6	154.2	152.8	151.4	150.0
90°	142.9	148.6	148.6	147.1	145.7	144.3	142.9	141.5	140.1	138.7	138.7
92.5°	130.2	135.8	135.8	134.4	133.0	131.6	131.6	130.2	128.8	127.3	125.9
95°	118.8	124.5	124.5	124.5	123.1	121.7	121.7	120.3	118.8	118.8	117.4
97.5°	107.5	113.2	113.2	113.2	111.8	110.4	110.4	108.9	108.9	108.9	107.5
100°	97.6	101.9	103.3	103.3	101.9	101.9	101.9	100.5	100.5	100.5	99.0
102.5°	87.7	92.0	94.8	94.8	94.8	93.4	93.4	93.4	93.4	93.4	92.0
105°	79.2	83.5	86.3	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
107.5°	72.2	76.4	79.2	80.6	82.1	82.1	83.5	83.5	83.5	83.5	83.5
110°	65.1	69.3	73.6	75.0	76.4	77.8	77.8	79.2	77.8	77.8	77.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	58.0	63.7	66.5	69.3	70.7	72.2	73.6	73.6	73.6	73.6	73.6
115°	52.3	58.0	60.8	63.7	66.5	67.9	67.9	69.3	69.3	69.3	67.9
117.5°	46.7	52.3	55.2	58.0	59.4	62.3	63.7	63.7	63.7	63.7	62.3
120°	42.4	46.7	49.5	52.3	55.2	56.6	58.0	58.0	58.0	58.0	58.0
122.5°	36.8	41.0	45.3	48.1	49.5	50.9	52.3	52.3	52.3	52.3	52.3
125°	32.5	36.8	39.6	42.4	43.9	46.7	46.7	46.7	46.7	46.7	46.7
127.5°	28.3	32.5	35.4	38.2	39.6	41.0	42.4	42.4	42.4	42.4	42.4
130°	24.1	28.3	31.1	34.0	35.4	36.8	36.8	38.2	38.2	38.2	38.2
132.5°	21.2	24.1	26.9	29.7	31.1	32.5	32.5	34.0	34.0	34.0	34.0
135°	17.0	21.2	22.6	25.5	26.9	28.3	28.3	29.7	29.7	29.7	29.7
137.5°	14.1	17.0	19.8	22.6	24.1	24.1	25.5	25.5	26.9	26.9	26.9
140°	11.3	12.7	17.0	18.4	19.8	21.2	22.6	22.6	22.6	22.6	22.6
142.5°	8.5	11.3	12.7	15.6	17.0	18.4	19.8	19.8	19.8	19.8	19.8
145°	7.1	8.5	9.9	12.7	14.1	15.6	17.0	17.0	17.0	17.0	17.0
147.5°	5.7	7.1	8.5	9.9	11.3	12.7	14.1	14.1	14.1	14.1	14.1
150°	4.2	5.7	7.1	7.1	8.5	9.9	11.3	12.7	12.7	12.7	12.7
152.5°	4.2	4.2	5.7	5.7	7.1	8.5	9.9	9.9	9.9	9.9	9.9
155°	2.8	4.2	4.2	4.2	5.7	5.7	7.1	8.5	8.5	8.5	8.5
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: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2
2.5°	2739.2	2744.8	2742.0	2737.8	2736.3	2743.4	2736.3	2703.8	2716.5	2717.9	2727.9
5°	2734.9	2739.2	2736.3	2733.5	2729.3	2737.8	2729.3	2695.3	2708.0	2709.5	2719.4
7.5°	2763.2	2764.6	2764.6	2757.6	2746.2	2750.5	2739.2	2701.0	2708.0	2708.0	2715.1
10°	2834.0	2836.8	2841.0	2822.6	2808.5	2797.2	2781.6	2734.9	2733.5	2722.2	2722.2
12.5°	2925.9	2918.9	2911.8	2903.3	2892.0	2877.8	2855.2	2800.0	2781.6	2763.2	2744.8
15°	2952.8	2950.0	2948.6	2944.3	2937.2	2933.0	2916.0	2860.8	2834.0	2811.3	2778.8
17.5°	2882.1	2887.7	2906.1	2907.5	2916.0	2933.0	2930.2	2892.0	2867.9	2858.0	2818.4
20°	2754.7	2756.1	2778.8	2788.7	2825.5	2853.8	2875.0	2870.8	2865.1	2876.4	2846.7
22.5°	2601.9	2611.8	2635.9	2651.4	2686.8	2719.4	2753.3	2771.7	2801.4	2848.1	2842.5
25°	2393.9	2406.7	2440.6	2466.1	2515.6	2565.1	2610.4	2643.0	2678.3	2767.5	2797.2
27.5°	2144.9	2164.7	2208.6	2234.1	2303.4	2354.3	2419.4	2483.1	2532.6	2634.5	2695.3
30°	1883.2	1900.2	1946.8	1982.2	2041.6	2111.0	2193.0	2283.6	2365.6	2468.9	2545.3
32.5°	1638.4	1656.8	1695.0	1726.1	1792.6	1850.6	1941.2	2053.0	2129.4	2272.3	2374.1
35°	1424.8	1441.7	1468.6	1495.5	1550.7	1610.1	1687.9	1796.9	1894.5	2043.1	2171.8
37.5°	1274.8	1277.6	1293.2	1308.7	1349.8	1395.1	1455.9	1552.1	1642.7	1802.5	1944.0
40°	1167.3	1167.3	1175.7	1180.0	1198.4	1225.3	1263.5	1338.5	1413.4	1535.1	1707.7
42.5°	1100.8	1097.9	1097.9	1099.3	1097.9	1110.7	1133.3	1168.7	1235.2	1335.6	1470.0
45°	1051.2	1045.6	1041.3	1031.4	1025.8	1025.8	1027.2	1039.9	1078.1	1143.2	1252.2
47.5°	996.1	994.6	987.6	976.3	966.3	959.3	948.0	943.7	955.0	991.8	1065.4
50°	932.4	925.3	918.2	909.8	898.4	891.4	870.1	871.6	861.6	878.6	916.8
52.5°	839.0	833.4	830.5	823.4	819.2	816.4	799.4	782.4	778.2	781.0	795.2
55°	735.7	738.6	727.2	732.9	731.5	718.7	711.7	698.9	694.7	693.3	700.4
57.5°	628.2	631.0	624.0	629.6	629.6	622.5	618.3	618.3	608.4	599.9	609.8
60°	530.6	524.9	529.2	536.2	536.2	532.0	529.2	529.2	522.1	519.3	526.3
62.5°	451.3	445.7	449.9	457.0	458.4	455.6	452.8	452.8	444.3	444.3	449.9
65°	390.5	391.9	390.5	396.2	396.2	397.6	394.7	391.9	382.0	386.3	384.8
67.5°	346.6	345.2	345.2	350.9	349.5	352.3	349.5	345.2	338.2	332.5	331.1
70°	309.9	308.4	308.4	311.3	312.7	312.7	311.3	308.4	298.5	292.9	288.6
72.5°	277.3	275.9	277.3	278.7	280.1	281.6	280.1	277.3	268.8	261.7	254.7
75°	247.6	246.2	250.4	250.4	251.8	251.8	253.3	251.8	244.8	236.3	227.8
77.5°	217.9	219.3	223.5	225.0	227.8	229.2	230.6	230.6	223.5	216.5	205.2
80°	193.8	196.7	199.5	200.9	203.7	208.0	209.4	210.8	205.2	198.1	185.3
82.5°	176.9	178.3	181.1	182.5	186.8	188.2	189.6	192.4	189.6	182.5	168.4
85°	162.7	164.1	167.0	167.0	169.8	172.6	174.0	175.4	174.0	167.0	152.8
87.5°	150.0	151.4	152.8	154.2	155.6	157.0	158.5	159.9	158.5	151.4	138.7
90°	138.7	138.7	140.1	140.1	141.5	142.9	145.7	145.7	144.3	138.7	125.9
92.5°	125.9	127.3	127.3	128.8	130.2	131.6	133.0	133.0	131.6	125.9	114.6
95°	117.4	117.4	118.8	118.8	120.3	120.3	121.7	121.7	120.3	114.6	103.3
97.5°	107.5	107.5	107.5	107.5	108.9	108.9	110.4	110.4	108.9	103.3	93.4
100°	99.0	99.0	99.0	99.0	99.0	100.5	100.5	100.5	99.0	93.4	83.5
102.5°	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	89.1	84.9	75.0
105°	87.7	87.7	87.7	86.3	86.3	86.3	84.9	84.9	80.6	76.4	67.9
107.5°	82.1	82.1	82.1	80.6	80.6	79.2	77.8	77.8	73.6	69.3	60.8
110°	77.8	77.8	77.8	76.4	75.0	73.6	72.2	70.7	66.5	60.8	53.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	73.6	73.6	72.2	72.2	70.7	69.3	66.5	65.1	60.8	55.2	48.1
115°	67.9	67.9	67.9	66.5	65.1	63.7	62.3	59.4	55.2	49.5	42.4
117.5°	62.3	62.3	62.3	60.8	59.4	58.0	56.6	53.8	49.5	43.9	38.2
120°	56.6	56.6	56.6	55.2	53.8	52.3	50.9	48.1	43.9	39.6	32.5
122.5°	52.3	52.3	50.9	49.5	48.1	46.7	45.3	42.4	39.6	34.0	28.3
125°	46.7	46.7	45.3	45.3	43.9	42.4	41.0	38.2	34.0	29.7	25.5
127.5°	42.4	41.0	41.0	41.0	39.6	38.2	35.4	34.0	29.7	25.5	21.2
130°	36.8	36.8	36.8	35.4	35.4	34.0	31.1	28.3	25.5	22.6	18.4
132.5°	32.5	32.5	32.5	32.5	31.1	29.7	26.9	25.5	22.6	18.4	15.6
135°	29.7	29.7	28.3	28.3	26.9	25.5	24.1	21.2	18.4	15.6	12.7
137.5°	25.5	25.5	25.5	24.1	24.1	22.6	19.8	18.4	17.0	14.1	11.3
140°	22.6	22.6	21.2	21.2	19.8	19.8	18.4	15.6	14.1	11.3	9.9
142.5°	19.8	19.8	18.4	18.4	17.0	17.0	15.6	14.1	11.3	9.9	7.1
145°	17.0	17.0	15.6	15.6	15.6	14.1	12.7	11.3	9.9	8.5	7.1
147.5°	14.1	14.1	14.1	12.7	12.7	11.3	11.3	9.9	8.5	7.1	5.7
150°	12.7	12.7	11.3	11.3	11.3	9.9	8.5	8.5	7.1	5.7	4.2
152.5°	9.9	9.9	9.9	9.9	8.5	8.5	7.1	7.1	5.7	4.2	4.2
155°	8.5	8.5	8.5	7.1	7.1	7.1	5.7	5.7	4.2	4.2	2.8
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: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2	2739.2
2.5°	2723.6	2722.2	2734.9	2733.5	2716.5	2742.0	2759.0
5°	2716.5	2715.1	2726.4	2729.3	2710.9	2737.8	2756.1
7.5°	2710.9	2709.5	2722.2	2726.4	2708.0	2732.1	2751.9
10°	2712.3	2705.2	2716.5	2719.4	2702.4	2727.9	2744.8
12.5°	2722.2	2705.2	2709.5	2709.5	2693.9	2716.5	2734.9
15°	2746.2	2710.9	2705.2	2701.0	2681.2	2702.4	2720.8
17.5°	2773.1	2725.0	2705.2	2691.1	2667.0	2685.4	2705.2
20°	2800.0	2740.6	2708.0	2685.4	2652.9	2669.8	2684.0
22.5°	2812.7	2754.7	2710.9	2676.9	2635.9	2644.4	2659.9
25°	2795.8	2749.1	2705.2	2664.2	2614.7	2616.1	2628.8
27.5°	2733.5	2720.8	2692.5	2651.4	2597.7	2590.6	2600.5
30°	2627.4	2662.8	2664.2	2634.5	2577.9	2563.7	2568.0
32.5°	2478.8	2558.1	2604.8	2599.1	2549.6	2529.8	2532.6
35°	2307.6	2406.7	2508.5	2542.5	2507.1	2491.6	2485.9
37.5°	2102.5	2235.5	2371.3	2454.8	2449.1	2439.2	2433.6
40°	1876.1	2036.0	2197.3	2330.3	2371.3	2371.3	2374.1
42.5°	1634.2	1820.9	1997.8	2166.2	2262.4	2283.6	2292.1
45°	1400.7	1588.9	1781.3	1975.1	2103.9	2170.4	2194.4
47.5°	1188.5	1378.1	1560.6	1772.8	1944.0	2030.3	2068.5
50°	1007.4	1148.9	1341.3	1552.1	1738.9	1845.0	1920.0
52.5°	857.4	967.8	1136.1	1332.8	1521.0	1666.7	1736.0
55°	731.5	806.5	949.4	1119.2	1298.8	1450.2	1530.9
57.5°	625.4	684.8	782.4	923.9	1075.3	1225.3	1311.6
60°	532.0	573.0	639.5	751.3	880.0	1008.8	1092.3
62.5°	451.3	478.2	522.1	604.1	704.6	805.1	882.9
65°	389.1	400.4	424.5	475.4	551.8	628.2	694.7
67.5°	328.2	335.3	353.7	384.8	423.0	478.2	522.1
70°	283.0	283.0	284.4	302.8	322.6	358.0	389.1
72.5°	246.2	241.9	233.5	237.7	241.9	261.7	281.6
75°	216.5	206.6	192.4	186.8	183.9	186.8	198.1
77.5°	191.0	176.9	159.9	145.7	134.4	130.2	140.1
80°	169.8	152.8	133.0	114.6	96.2	86.3	90.6
82.5°	152.8	131.6	110.4	89.1	67.9	53.8	53.8
85°	134.4	114.6	92.0	69.3	48.1	29.7	26.9
87.5°	121.7	100.5	76.4	55.2	34.0	15.6	8.5
90°	108.9	87.7	65.1	43.9	24.1	7.1	0.0
92.5°	97.6	77.8	56.6	35.4	17.0	4.2	0.0
95°	87.7	69.3	48.1	29.7	14.1	2.8	1.4
97.5°	77.8	60.8	42.4	24.1	9.9	2.8	1.4
100°	70.7	53.8	36.8	19.8	8.5	1.4	1.4
102.5°	62.3	48.1	31.1	17.0	7.1	1.4	1.4
105°	55.2	42.4	26.9	14.1	5.7	1.4	1.4
107.5°	49.5	36.8	24.1	12.7	5.7	1.4	1.4
110°	43.9	32.5	21.2	11.3	4.2	1.4	1.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-76HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	39.6	28.3	18.4	9.9	2.8	1.4	1.4
115°	34.0	25.5	15.6	8.5	2.8	1.4	1.4
117.5°	29.7	21.2	14.1	7.1	2.8	1.4	1.4
120°	25.5	18.4	11.3	5.7	1.4	1.4	1.4
122.5°	22.6	15.6	9.9	5.7	1.4	1.4	1.4
125°	19.8	14.1	8.5	4.2	1.4	1.4	1.4
127.5°	17.0	11.3	7.1	2.8	1.4	1.4	1.4
130°	14.1	9.9	5.7	2.8	1.4	1.4	1.4
132.5°	11.3	8.5	5.7	2.8	1.4	1.4	1.4
135°	9.9	7.1	4.2	2.8	1.4	1.4	1.4
137.5°	8.5	5.7	2.8	2.8	2.8	1.4	1.4
140°	7.1	4.2	2.8	2.8	2.8	2.8	1.4
142.5°	5.7	4.2	2.8	2.8	2.8	2.8	1.4
145°	4.2	2.8	2.8	2.8	2.8	2.8	1.4
147.5°	4.2	2.8	2.8	2.8	2.8	2.8	1.4
150°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
152.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
155°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)