

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-LD5-58SL-RM-UNV-L930-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 (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-58SL-RM-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

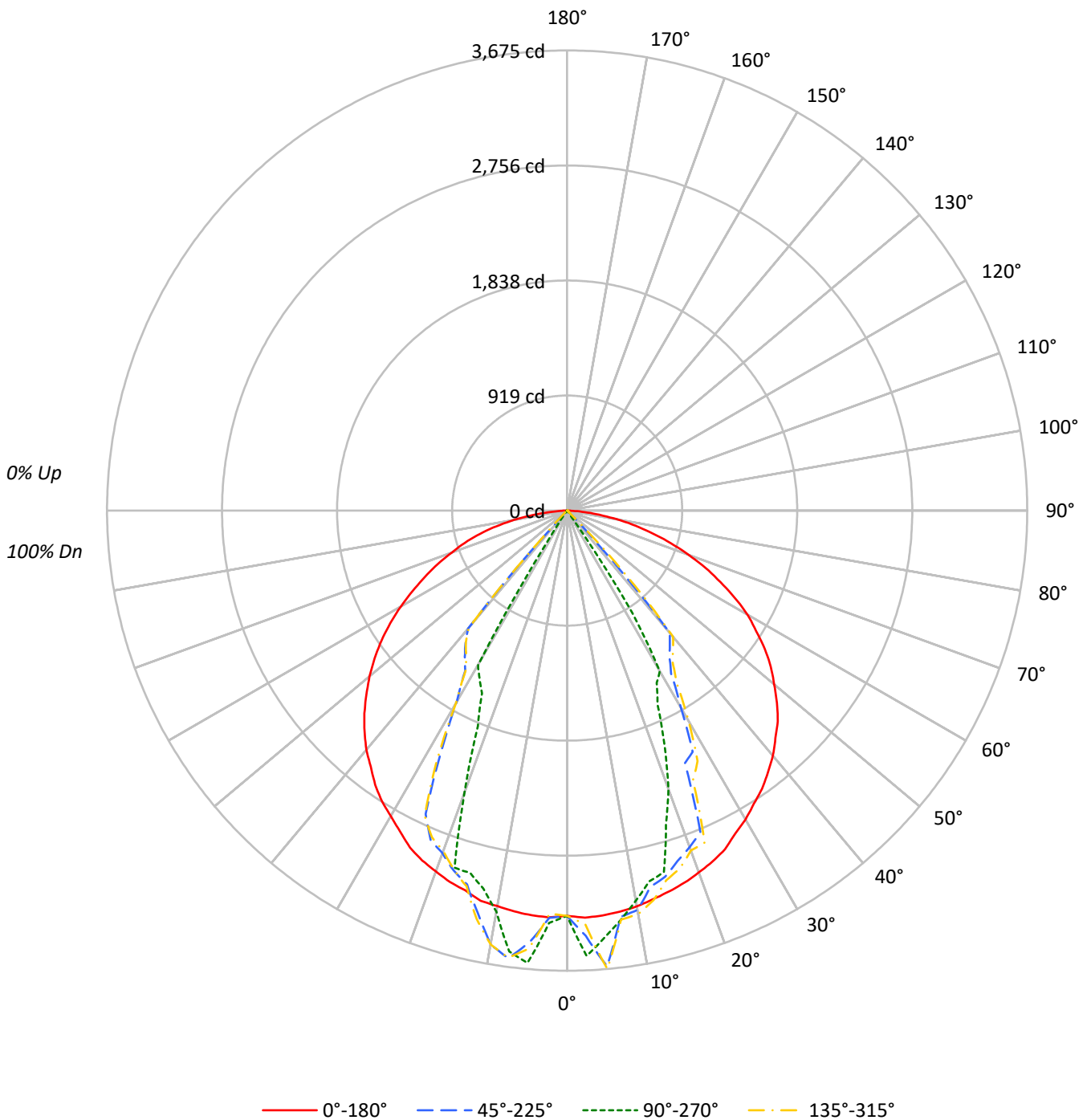
Lumens per Lamp: N/A
Luminaire Lumens: 4601.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 46
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



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65					65			
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26149	26149	26149	26149
5°	26255	26894	26247	28480
10°	26192	24336	26176	25038
15°	26121	22714	26056	22773
20°	26151	17891	26077	18111
25°	26226	12948	26099	12218
30°	26107	11358	25831	10918
35°	26184	250	25800	303
40°	26274	55	25645	55
45°	26366	32	25377	24
50°	26166	25	24964	25
55°	26011	17	24414	17
60°	25520	19	23526	19
65°	24191	31	22467	20
70°	22440	34	21363	34
75°	19850	38	20174	38
80°	16125	43	17046	43
85°	9489	51	9687	51



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.6	7.1
10°-20°	885.5	19.2
20°-30°	1126.8	24.5
30°-40°	951.8	20.7
40°-50°	622.3	13.5
50°-60°	392.1	8.5
60°-70°	208.7	4.5
70°-80°	76.1	1.7
80°-90°	13.1	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2336.9	50.8
0°-40°	3288.7	71.5
0°-60°	4303.1	93.5
0°-90°	4601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4601.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3236	3236	3236	3236	3236	
5°	3246	3424	3244	3626	3246	309
15°	3148	2988	3141	2996	3148	890
25°	2984	1706	2970	1610	2984	1372
35°	2712	32	2672	39	2712	1697
45°	2379	4	2290	3	2379	1830
55°	1929	2	1810	2	1929	1718
65°	1350	3	1254	2	1350	1337
75°	710	3	722	3	710	753
85°	139	3	142	3	139	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3254.2	3256.2	3257.1	3259.1	3262.0	3263.0	3264.9	3263.0	3263.0	3263.0	3263.0
5°	3245.5	3249.4	3252.3	3256.2	3263.0	3263.9	3271.7	3272.7	3276.6	3284.3	3290.1
7.5°	3230.9	3234.8	3240.6	3250.3	3260.0	3270.7	3284.3	3298.9	3319.3	3338.7	3363.0
10°	3209.5	3214.4	3221.2	3229.9	3277.5	3284.3	3314.4	3356.2	3367.8	3429.0	3474.7
12.5°	3178.5	3195.0	3212.5	3220.2	3265.9	3337.7	3438.7	3418.3	3396.0	3596.1	3593.1
15°	3148.4	3170.7	3162.0	3225.1	3266.8	3392.1	3349.4	3440.7	3607.7	3566.9	3568.9
17.5°	3116.3	3121.2	3169.7	3222.2	3296.9	3361.0	3413.5	3538.8	3571.8	3574.7	3538.8
20°	3075.5	3098.8	3169.7	3217.3	3343.6	3373.7	3487.3	3551.4	3537.8	3504.8	3443.6
22.5°	3033.8	3104.7	3176.5	3243.5	3331.9	3412.5	3468.8	3498.9	3428.0	3297.9	3228.0
25°	2984.2	3026.0	3120.2	3218.3	3329.0	3375.6	3408.6	3360.1	3267.8	3151.3	3033.8
27.5°	2907.5	2974.5	3095.0	3205.7	3305.7	3362.0	3308.6	3192.1	3043.5	2966.8	2913.4
30°	2848.3	2935.7	3034.7	3141.6	3245.5	3278.5	3142.5	3009.5	2907.5	2830.8	2819.2
32.5°	2776.4	2900.7	2994.9	3096.9	3184.3	3140.6	3008.5	2836.6	2752.2	2723.0	2734.7
35°	2712.3	2806.5	2929.9	3029.9	3093.0	2994.9	2786.1	2679.3	2638.5	2655.0	2633.7
37.5°	2635.6	2759.9	2873.5	2960.0	2938.6	2791.0	2614.3	2546.3	2551.1	2537.5	2496.7
40°	2556.0	2674.5	2792.9	2874.5	2799.7	2574.4	2456.9	2442.4	2445.3	2401.6	2343.3
42.5°	2462.8	2570.6	2689.0	2762.8	2601.6	2425.9	2346.2	2348.2	2322.9	2261.7	2230.7
45°	2379.2	2478.3	2601.6	2608.4	2410.3	2263.7	2240.4	2215.1	2158.8	2138.4	2115.1
47.5°	2272.4	2382.2	2484.1	2447.2	2222.9	2131.6	2114.1	2058.8	2030.6	2015.1	1995.6
50°	2158.8	2269.5	2362.7	2257.9	2046.1	2024.8	1967.5	1923.8	1904.4	1887.9	1870.4
52.5°	2051.0	2142.3	2237.5	2056.8	1910.2	1889.8	1824.7	1799.5	1780.1	1761.6	1757.7
55°	1928.6	2009.2	2074.3	1865.5	1780.1	1732.5	1685.9	1668.4	1649.9	1641.2	1655.8
57.5°	1789.8	1881.1	1871.3	1677.1	1639.2	1570.3	1552.8	1541.2	1527.6	1533.4	1412.0
60°	1664.5	1734.4	1686.8	1539.2	1475.1	1428.5	1413.0	1405.2	1413.0	1294.5	1138.2
62.5°	1510.1	1588.8	1492.6	1378.0	1310.0	1287.7	1274.1	1284.8	1171.2	1041.0	1003.2
65°	1349.9	1435.3	1293.5	1205.2	1162.4	1143.0	1142.0	1051.7	940.0	889.5	889.5
67.5°	1195.4	1283.8	1101.2	1027.4	1010.9	1012.9	956.6	819.6	788.5	754.6	656.5
70°	1031.3	1109.0	909.9	865.3	855.6	848.8	711.8	674.9	638.0	547.7	539.9
72.5°	868.2	906.1	731.3	720.6	718.6	597.2	570.0	506.9	464.2	453.5	448.7
75°	709.9	698.2	577.8	587.5	495.3	452.5	408.8	371.9	366.1	362.2	90.3
77.5°	560.3	502.1	455.5	396.2	354.5	301.0	292.3	286.5	188.4	68.0	55.4
80°	407.9	325.3	303.0	257.3	219.5	210.7	215.6	66.0	52.4	43.7	37.9
82.5°	259.3	207.8	169.9	148.6	144.7	63.1	46.6	37.9	33.0	28.2	23.3
85°	138.9	92.3	85.5	71.9	42.7	29.1	24.3	18.5	15.5	12.6	11.7
87.5°	43.7	36.9	30.1	24.3	14.6	9.7	7.8	6.8	5.8	4.9	4.9
90°	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):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3261.0	3263.0	3262.0	3264.9	3264.9	3268.8	3271.7	3274.6	3280.4	3283.4	3305.7
5°	3302.8	3307.6	3322.2	3335.8	3352.3	3357.2	3385.3	3392.1	3425.1	3429.0	3537.8
7.5°	3396.0	3414.5	3449.4	3484.4	3519.3	3541.7	3580.5	3604.8	3631.0	3654.3	3740.7
10°	3508.7	3539.7	3573.7	3608.7	3629.1	3671.8	3695.1	3699.0	3692.2	3654.3	3514.5
12.5°	3619.4	3650.4	3635.9	3642.7	3666.9	3591.2	3601.9	3547.5	3585.4	3397.9	3259.1
15°	3603.8	3601.9	3565.9	3449.4	3468.8	3324.1	3265.9	3221.2	3257.1	3237.7	3216.3
17.5°	3557.2	3468.8	3406.7	3266.8	3207.6	3166.8	3167.8	3168.8	3151.3	3169.7	3115.3
20°	3360.1	3261.0	3168.8	3119.2	3101.8	3072.6	3087.2	3072.6	3073.6	3079.4	2995.9
22.5°	3097.9	3067.8	3014.4	3029.9	3024.1	3050.3	3030.9	3000.8	3010.5	2966.8	2903.6
25°	2992.0	2957.1	2955.1	2960.9	2952.2	2940.5	2923.1	2877.4	2874.5	2860.9	2831.8
27.5°	2885.2	2887.1	2893.0	2875.5	2844.4	2821.1	2794.9	2772.5	2781.3	2765.7	2725.9
30°	2811.4	2810.4	2775.5	2759.9	2702.6	2703.6	2696.8	2683.2	2674.5	2675.4	2650.2
32.5°	2706.5	2676.4	2636.6	2617.2	2612.3	2594.8	2581.2	2584.1	2590.9	2566.7	2592.9
35°	2598.7	2536.6	2530.7	2514.2	2498.7	2487.0	2491.9	2472.5	2471.5	2468.6	2254.9
37.5°	2454.0	2423.9	2421.0	2403.5	2392.8	2389.9	2371.5	2374.4	2383.1	2398.7	1922.8
40°	2334.6	2307.4	2300.6	2299.6	2276.3	2274.4	2279.2	2297.7	2310.3	2213.2	1832.5
42.5°	2206.4	2208.3	2187.0	2173.4	2176.3	2185.0	2208.3	2144.2	1857.7	1770.3	1675.2
45°	2096.6	2086.9	2075.3	2071.4	2096.6	2079.2	1822.8	1682.0	1648.0	1644.1	1377.0
47.5°	1982.1	1979.1	1974.3	1977.2	1833.5	1634.4	1576.1	1557.7	1563.5	1559.6	1182.8
50°	1866.5	1870.4	1870.4	1633.4	1499.4	1466.4	1471.2	1487.8	1384.8	1292.6	1102.2
52.5°	1766.5	1736.4	1487.8	1402.3	1372.2	1386.8	1351.8	1222.6	1129.4	1075.0	1019.7
55°	1581.0	1359.6	1304.2	1290.6	1301.3	1172.1	1092.5	1009.0	984.7	978.9	946.8
57.5°	1244.0	1199.3	1204.2	1149.8	1026.5	953.6	921.6	909.9	899.3	891.5	77.7
60°	1100.3	1112.9	1018.7	902.2	852.6	842.9	835.2	824.5	822.5	808.9	49.5
62.5°	1007.1	885.7	804.1	775.0	763.3	760.4	745.8	741.0	629.3	86.4	36.9
65°	759.4	709.9	694.3	687.6	674.9	674.9	560.3	88.4	71.9	62.2	33.0
67.5°	619.6	615.7	607.9	599.2	407.9	85.5	74.8	65.1	56.3	49.5	29.1
70°	524.4	522.5	475.8	87.4	72.8	64.1	56.3	50.5	46.6	41.8	26.2
72.5°	430.2	87.4	73.8	64.1	55.4	50.5	45.6	40.8	36.9	34.0	21.4
75°	67.0	59.2	52.4	47.6	43.7	38.8	35.0	32.0	31.1	27.2	14.6
77.5°	48.6	41.8	37.9	34.0	30.1	27.2	23.3	20.4	18.5	15.5	10.7
80°	34.0	30.1	27.2	22.3	19.4	16.5	14.6	12.6	11.7	9.7	4.9
82.5°	19.4	16.5	14.6	11.7	10.7	8.7	7.8	6.8	6.8	4.9	4.9
85°	8.7	8.7	6.8	5.8	4.9	4.9	4.9	3.9	3.9	2.9	2.9
87.5°	3.9	3.9	3.9	3.9	3.9	2.9	2.9	2.9	2.9	2.9	1.9
90°	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):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3336.8	3349.4	3373.7	3398.9	3370.8	3471.7	3464.0	3498.0	3516.4	3525.2	3545.6
5°	3633.9	3690.3	3708.7	3653.3	3621.3	3588.3	3513.5	3457.2	3464.0	3445.5	3378.5
7.5°	3628.1	3507.7	3345.5	3271.7	3265.9	3257.1	3280.4	3294.0	3296.0	3295.0	3293.1
10°	3321.2	3259.1	3248.4	3238.7	3242.6	3206.6	3190.1	3143.5	3168.8	3155.2	3160.0
12.5°	3228.0	3213.4	3156.1	3076.5	3124.1	3088.2	3067.8	3081.4	3065.8	3051.3	3046.4
15°	3172.6	3078.4	3046.4	3027.0	3013.4	3005.6	3012.4	2996.9	2992.0	2989.1	2995.9
17.5°	3058.1	3020.2	2985.2	2933.7	2934.7	2931.8	2951.2	2980.4	2982.3	2832.8	2697.8
20°	2967.7	2936.7	2892.0	2859.9	2903.6	2826.0	2525.9	2383.1	2360.8	2360.8	2364.7
22.5°	2895.9	2826.9	2829.8	2779.3	2370.5	2287.0	2288.9	2297.7	2257.9	2121.9	2107.3
25°	2797.8	2787.1	2574.4	2224.8	2227.7	2162.7	2062.7	1921.8	1769.4	1769.4	1744.1
27.5°	2724.0	2497.7	2187.0	2172.4	1953.9	1816.0	1730.5	1601.4	1583.9	1567.4	1569.3
30°	2660.9	2113.2	2120.9	1816.0	1654.8	1540.2	1533.4	1512.0	1501.3	1498.4	1487.8
32.5°	2103.4	2057.8	1775.2	1546.0	1482.9	1464.4	1455.7	1431.4	1430.5	1412.0	1283.8
35°	1972.3	1806.3	1485.8	1423.7	1405.2	1387.7	1373.2	921.6	108.8	43.7	37.9
37.5°	1822.8	1509.1	1374.1	1346.0	1328.5	981.8	98.1	34.0	24.3	17.5	15.5
40°	1545.0	1347.9	1305.2	1274.1	525.4	34.0	21.4	16.5	9.7	8.7	7.8
42.5°	1303.2	1270.2	1224.6	372.9	38.8	16.5	10.7	7.8	6.8	6.8	5.8
45°	1219.7	1190.6	493.3	36.9	24.3	7.8	6.8	6.8	5.8	3.9	3.9
47.5°	1142.0	1005.1	44.7	23.3	15.5	6.8	5.8	3.9	3.9	3.9	2.9
50°	1059.5	55.4	31.1	17.5	9.7	3.9	3.9	3.9	3.9	2.9	2.9
52.5°	198.1	38.8	25.2	15.5	4.9	3.9	3.9	3.9	2.9	2.9	2.9
55°	46.6	31.1	23.3	13.6	3.9	3.9	3.9	2.9	2.9	2.9	1.9
57.5°	35.0	23.3	18.5	12.6	3.9	2.9	2.9	2.9	2.9	2.9	1.9
60°	29.1	16.5	14.6	11.7	2.9	2.9	2.9	2.9	2.9	2.9	1.9
62.5°	20.4	13.6	10.7	8.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9
65°	16.5	10.7	8.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
67.5°	14.6	8.7	5.8	1.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
70°	11.7	2.9	2.9	1.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
72.5°	9.7	2.9	1.9	1.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	9.7	4.9	1.9	1.9	2.9	2.9	3.9	3.9	2.9	2.9	2.9
77.5°	6.8	4.9	1.9	1.9	2.9	2.9	3.9	3.9	2.9	2.9	2.9
80°	3.9	4.9	1.9	2.9	2.9	5.8	6.8	3.9	2.9	2.9	2.9
82.5°	3.9	4.9	5.8	5.8	2.9	4.9	5.8	4.9	3.9	2.9	2.9
85°	3.9	2.9	3.9	4.9	2.9	4.9	4.9	3.9	3.9	2.9	2.9
87.5°	1.9	2.9	2.9	3.9	3.9	3.9	4.9	3.9	3.9	3.9	2.9
90°	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-LD5-58SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3555.3	3559.1	3498.0	3476.6	3495.1	3491.2	3474.7	3413.5	3406.7	3365.9	3306.7
5°	3397.9	3424.2	3392.1	3447.5	3421.3	3447.5	3527.1	3564.0	3624.2	3661.1	3674.7
7.5°	3288.2	3294.0	3294.0	3298.9	3303.7	3304.7	3298.9	3295.0	3278.5	3258.1	3295.0
10°	3155.2	3162.0	3173.6	3171.7	3170.7	3191.1	3196.0	3237.7	3235.8	3243.5	3271.7
12.5°	3086.2	3033.8	3081.4	3068.7	3086.2	3059.0	3109.5	3100.8	3103.7	3127.0	3187.2
15°	2971.6	2988.1	2999.8	2999.8	3006.6	3000.8	2994.9	3034.7	3059.0	3060.0	3056.1
17.5°	2751.2	2625.9	2754.1	2721.1	2984.2	2991.0	2968.7	2950.3	2950.3	2964.8	2995.9
20°	2361.8	2364.7	2365.6	2378.3	2393.8	2392.8	2393.8	2776.4	2958.0	2916.3	2888.1
22.5°	2070.4	2034.5	2101.5	2096.6	2180.2	2272.4	2360.8	2352.0	2357.9	2627.8	2870.6
25°	1659.6	1706.3	1668.4	1684.9	1779.1	1888.8	1956.8	2134.5	2327.8	2314.2	2377.3
27.5°	1562.5	1549.9	1567.4	1567.4	1580.0	1594.6	1632.5	1732.5	1904.4	2085.0	2255.9
30°	1470.3	1481.0	1482.9	1500.4	1510.1	1519.8	1525.6	1563.5	1602.3	1727.6	1938.4
32.5°	1104.2	968.2	1274.1	1356.7	1426.6	1443.1	1454.7	1470.3	1498.4	1516.9	1622.7
35°	32.0	32.0	34.0	38.8	49.5	334.1	1272.2	1402.3	1420.7	1444.1	1463.5
37.5°	15.5	11.7	13.6	14.6	17.5	24.3	35.0	108.8	1211.0	1369.3	1390.6
40°	6.8	6.8	6.8	6.8	7.8	9.7	14.6	24.3	36.9	974.0	1313.9
42.5°	5.8	5.8	5.8	5.8	5.8	5.8	6.8	8.7	17.5	41.8	689.5
45°	3.9	3.9	2.9	3.9	3.9	4.9	5.8	5.8	7.8	26.2	47.6
47.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.9	5.8	17.5	25.2
50°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	13.6	17.5
52.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	5.8	15.5
55°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9	2.9	3.9	13.6
57.5°	1.9	1.9	1.9	1.9	1.9	2.9	1.9	1.9	2.9	2.9	12.6
60°	1.9	1.9	1.9	1.9	1.9	2.9	2.9	2.9	2.9	2.9	11.7
62.5°	2.9	2.9	1.9	2.9	1.9	1.9	2.9	2.9	2.9	2.9	7.8
65°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.9	2.9
67.5°	2.9	2.9	2.9	2.9	1.9	2.9	1.9	2.9	2.9	1.9	1.9
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.9	1.9	1.9	1.9
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.9	1.9	1.9	1.9
75°	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	1.9	1.9	1.9
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	4.9	5.8	4.9	4.9	1.9
80°	2.9	2.9	2.9	2.9	2.9	2.9	4.9	4.9	4.9	4.9	6.8
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	3.9	3.9	4.9
85°	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	3.9	2.9	3.9
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	2.9	2.9	2.9
90°	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-LD5-58SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3311.5	3278.5	3267.8	3245.5	3243.5	3245.5	3240.6	3233.8	3237.7	3230.9	3225.1
5°	3682.5	3594.1	3536.8	3460.1	3354.2	3330.9	3325.1	3292.1	3280.4	3276.6	3261.0
7.5°	3382.4	3543.6	3640.7	3673.7	3549.4	3520.3	3486.3	3459.1	3432.9	3383.4	3353.3
10°	3249.4	3257.1	3350.4	3459.1	3635.9	3660.1	3678.6	3619.4	3602.9	3476.6	3449.4
12.5°	3218.3	3219.3	3229.9	3296.0	3434.8	3450.4	3515.4	3550.4	3593.1	3617.4	3598.0
15°	3076.5	3155.2	3213.4	3219.3	3231.9	3259.1	3278.5	3399.9	3451.4	3589.3	3581.5
17.5°	3010.5	3035.7	3120.2	3189.2	3177.5	3167.8	3183.3	3199.8	3249.4	3387.3	3385.3
20°	2900.7	2981.3	3027.0	3098.8	3163.9	3166.8	3149.3	3139.6	3120.2	3142.5	3162.9
22.5°	2854.1	2866.7	2952.2	3002.7	3076.5	3102.7	3106.6	3107.6	3096.9	3085.2	3079.4
25°	2849.3	2809.4	2853.1	2916.3	2970.7	2998.8	3030.9	3041.5	3037.7	3037.7	3031.8
27.5°	2331.7	2796.8	2773.5	2815.3	2881.3	2900.7	2917.2	2950.3	2970.7	2985.2	2992.0
30°	2220.9	2304.5	2711.4	2717.2	2784.2	2782.3	2800.7	2827.9	2854.1	2888.1	2896.8
32.5°	1964.6	2169.5	2482.2	2619.1	2689.0	2695.8	2705.5	2713.3	2737.6	2775.5	2808.5
35°	1574.2	1976.2	2126.7	2572.5	2585.1	2598.7	2604.5	2623.0	2630.8	2646.3	2675.4
37.5°	1424.6	1633.4	2040.3	2224.8	2465.7	2477.3	2508.4	2516.2	2528.8	2541.4	2563.8
40°	1338.2	1395.5	1698.5	1986.9	2369.5	2377.3	2388.0	2407.4	2408.4	2422.9	2443.3
42.5°	1269.3	1306.2	1394.5	1897.6	2301.6	2300.6	2275.3	2288.0	2293.8	2309.3	2337.5
45°	1013.8	1225.6	1281.9	1549.9	1832.5	1964.6	2218.0	2176.3	2175.3	2181.1	2211.2
47.5°	51.5	1152.7	1192.5	1279.0	1730.5	1735.4	1768.4	2046.1	2088.9	2075.3	2078.2
50°	35.0	79.6	1111.0	1150.8	1491.6	1612.1	1636.3	1649.0	1809.2	1987.9	1958.7
52.5°	27.2	45.6	680.8	1068.2	1212.0	1300.3	1456.7	1546.0	1555.7	1627.6	1871.3
55°	24.3	35.0	73.8	985.7	1030.4	1049.8	1141.1	1297.4	1423.7	1461.5	1464.4
57.5°	21.4	32.0	50.5	445.7	937.1	941.0	956.6	1010.9	1124.6	1228.5	1346.0
60°	19.4	28.2	39.8	76.7	851.7	861.4	864.3	878.9	892.5	963.3	1098.3
62.5°	11.7	22.3	35.0	55.4	674.0	774.0	773.0	782.7	795.3	803.1	830.3
65°	9.7	17.5	30.1	46.6	82.5	102.9	625.4	695.3	703.1	713.8	718.6
67.5°	8.7	15.5	22.3	36.9	62.2	70.9	81.6	101.0	551.6	621.5	631.2
70°	7.8	10.7	18.5	31.1	50.5	54.4	61.2	69.9	82.5	102.0	499.2
72.5°	4.9	7.8	12.6	22.3	38.8	43.7	47.6	53.4	59.2	70.9	81.6
75°	1.9	5.8	10.7	16.5	30.1	33.0	35.9	39.8	44.7	52.4	58.3
77.5°	1.9	4.9	8.7	11.7	19.4	22.3	26.2	29.1	33.0	36.9	42.7
80°	6.8	3.9	5.8	8.7	13.6	14.6	16.5	18.5	21.4	24.3	28.2
82.5°	4.9	5.8	6.8	5.8	6.8	8.7	9.7	11.7	12.6	14.6	15.5
85°	3.9	3.9	4.9	4.9	4.9	4.9	4.9	4.9	5.8	6.8	8.7
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9
90°	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-LD5-58SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3225.1	3223.1	3217.3	3217.3	3216.3	3220.2	3223.1	3226.1	3225.1	3230.9	3225.1
5°	3249.4	3244.5	3235.8	3228.0	3225.1	3227.0	3224.1	3227.0	3223.1	3228.0	3219.3
7.5°	3316.4	3299.9	3265.9	3252.3	3234.8	3233.8	3225.1	3223.1	3217.3	3217.3	3206.6
10°	3434.8	3355.2	3345.5	3304.7	3290.1	3219.3	3234.8	3208.6	3205.7	3193.0	3188.2
12.5°	3532.0	3469.8	3451.4	3415.4	3374.6	3230.9	3263.0	3206.6	3203.7	3178.5	3152.3
15°	3533.9	3569.8	3519.3	3420.3	3411.5	3312.5	3247.4	3228.0	3202.7	3127.0	3139.6
17.5°	3420.3	3502.8	3527.1	3505.7	3443.6	3376.6	3285.3	3246.4	3170.7	3136.7	3113.4
20°	3235.8	3319.3	3423.2	3430.0	3468.8	3421.3	3301.8	3238.7	3147.4	3088.2	3068.7
22.5°	3089.1	3150.3	3269.8	3325.1	3372.7	3389.2	3313.5	3220.2	3106.6	3049.3	3037.7
25°	3011.4	3025.0	3061.0	3126.0	3230.9	3306.7	3317.3	3218.3	3159.0	3033.8	2967.7
27.5°	2983.3	2971.6	2957.1	2990.1	3068.7	3161.0	3222.2	3238.7	3091.1	2971.6	2905.6
30°	2911.4	2918.2	2895.9	2884.2	2935.7	3030.9	3139.6	3166.8	3053.2	2929.9	2854.1
32.5°	2823.0	2834.7	2838.6	2818.2	2807.5	2873.5	2991.0	3056.1	3050.3	2870.6	2786.1
35°	2712.3	2745.4	2754.1	2755.1	2737.6	2726.9	2794.9	2929.9	2981.3	2843.4	2721.1
37.5°	2595.8	2605.5	2653.1	2665.7	2665.7	2633.7	2684.2	2792.0	2863.8	2782.3	2641.4
40°	2450.1	2481.2	2525.9	2548.2	2570.6	2573.5	2545.3	2621.0	2739.5	2719.1	2566.7
42.5°	2344.3	2364.7	2391.9	2422.0	2467.6	2479.3	2450.1	2463.7	2587.1	2640.5	2469.6
45°	2220.9	2248.1	2255.9	2288.9	2336.5	2370.5	2369.5	2341.4	2440.4	2506.5	2398.7
47.5°	2094.7	2120.9	2134.5	2151.0	2186.0	2229.7	2254.0	2241.3	2260.8	2389.9	2304.5
50°	1964.6	1979.1	2006.3	2024.8	2048.1	2073.3	2131.6	2143.3	2116.1	2219.0	2200.6
52.5°	1841.2	1846.1	1864.5	1883.0	1914.1	1932.5	1979.1	2014.1	2012.2	2042.3	2085.0
55°	1745.1	1723.7	1727.6	1742.2	1762.6	1790.7	1817.0	1871.3	1889.8	1895.6	1963.6
57.5°	1363.5	1582.9	1602.3	1601.4	1625.7	1638.3	1662.6	1698.5	1764.5	1750.0	1825.7
60°	1239.1	1263.4	1447.0	1468.3	1477.1	1488.7	1517.9	1550.9	1599.4	1630.5	1663.5
62.5°	944.9	1092.5	1147.9	1310.0	1335.3	1342.1	1361.5	1377.0	1427.5	1498.4	1484.8
65°	731.3	794.4	963.3	1029.4	1167.3	1184.8	1212.0	1228.5	1243.0	1324.6	1328.5
67.5°	632.2	641.9	687.6	814.8	902.2	1037.2	1053.7	1068.2	1090.6	1148.8	1184.8
70°	539.9	551.6	564.2	574.9	688.5	777.9	903.1	908.0	922.6	961.4	1043.0
72.5°	102.0	461.3	469.1	475.8	488.5	547.7	667.2	764.3	770.1	788.5	863.3
75°	68.9	80.6	110.7	380.7	393.3	397.2	417.6	539.0	628.3	632.2	665.2
77.5°	49.5	55.4	67.0	79.6	203.0	304.9	309.8	332.1	424.4	491.4	497.2
80°	34.0	37.9	44.7	50.5	62.2	81.6	225.3	232.1	243.8	336.0	353.5
82.5°	19.4	22.3	26.2	32.0	36.9	46.6	60.2	77.7	158.3	169.0	224.3
85°	9.7	10.7	12.6	15.5	18.5	22.3	30.1	36.9	50.5	91.3	94.2
87.5°	4.9	4.9	4.9	4.9	7.8	8.7	10.7	13.6	17.5	26.2	34.0
90°	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-LD5-58SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3226.1	3239.7	3251.3	3254.2	3254.2	3256.2	3259.1	3261.0	3263.0	3264.9	3263.0
5°	3220.2	3234.8	3244.5	3247.4	3247.4	3253.2	3258.1	3263.9	3266.8	3266.8	3264.9
7.5°	3205.7	3216.3	3229.0	3236.7	3237.7	3247.4	3256.2	3255.2	3259.1	3261.0	3265.9
10°	3186.2	3186.2	3207.6	3213.4	3218.3	3229.0	3231.9	3237.7	3251.3	3253.2	3265.9
12.5°	3176.5	3166.8	3192.1	3195.0	3211.5	3197.9	3215.4	3221.2	3207.6	3226.1	3201.8
15°	3132.8	3144.5	3140.6	3149.3	3178.5	3162.9	3210.5	3195.0	3229.9	3188.2	3262.0
17.5°	3096.9	3095.0	3110.5	3118.3	3124.1	3157.1	3169.7	3187.2	3200.8	3189.2	3218.3
20°	3070.7	3055.1	3066.8	3075.5	3095.9	3121.2	3128.9	3102.7	3148.4	3226.1	3244.5
22.5°	3021.2	3010.5	3024.1	3024.1	3055.1	3051.3	3080.4	3063.9	3106.6	3196.9	3291.1
25°	2954.1	2955.1	2969.7	2987.2	2993.0	3036.7	3052.2	3073.6	3127.0	3234.8	3292.1
27.5°	2886.2	2880.3	2889.1	2925.0	2955.1	2987.2	2992.0	3064.9	3137.7	3211.5	3262.0
30°	2818.2	2812.4	2818.2	2844.4	2880.3	2901.7	2955.1	3052.2	3120.2	3170.7	3218.3
32.5°	2745.4	2739.5	2753.1	2772.5	2835.7	2838.6	2944.4	3035.7	3089.1	3126.0	3117.3
35°	2667.7	2659.9	2672.5	2702.6	2760.9	2782.3	2893.0	2960.9	3021.2	3038.6	2997.8
37.5°	2574.4	2560.8	2576.4	2618.1	2679.3	2741.5	2833.7	2912.4	2944.4	2897.8	2849.3
40°	2477.3	2467.6	2494.8	2516.2	2588.0	2674.5	2780.3	2835.7	2815.3	2761.9	2708.4
42.5°	2390.9	2370.5	2394.8	2435.6	2517.1	2615.2	2700.7	2731.8	2683.2	2604.5	2542.4
45°	2285.0	2260.8	2289.9	2344.3	2431.7	2543.4	2610.4	2599.7	2517.1	2449.2	2363.7
47.5°	2174.3	2145.2	2174.3	2239.4	2337.5	2456.0	2504.5	2456.0	2352.0	2266.6	2197.6
50°	2065.6	2031.6	2059.7	2157.8	2254.0	2345.3	2344.3	2250.1	2187.9	2094.7	2034.5
52.5°	1957.8	1909.2	1937.4	2044.2	2140.3	2244.3	2167.5	2080.1	2005.4	1923.8	1904.4
55°	1824.7	1772.3	1810.2	1965.5	2039.3	2100.5	1978.2	1901.5	1827.6	1786.9	1762.6
57.5°	1698.5	1641.2	1674.2	1857.7	1912.1	1927.7	1815.0	1706.3	1662.6	1649.0	1614.0
60°	1568.4	1503.3	1534.4	1746.1	1783.9	1720.8	1610.1	1525.6	1516.9	1489.7	1462.5
62.5°	1444.1	1372.2	1391.6	1607.2	1624.7	1510.1	1408.1	1385.8	1364.4	1337.2	1322.7
65°	1301.3	1226.5	1253.7	1459.6	1443.1	1295.5	1238.2	1233.3	1205.2	1182.8	1204.2
67.5°	1170.2	1081.8	1119.7	1298.4	1223.6	1103.2	1079.9	1068.2	1045.9	1058.5	834.2
70°	1026.5	930.3	981.8	1124.6	1013.8	934.2	925.5	908.0	909.0	722.5	608.9
72.5°	866.2	782.7	857.5	934.2	802.1	778.8	766.2	764.3	616.7	501.1	472.9
75°	725.4	640.9	721.5	750.7	639.0	623.5	622.5	514.7	405.0	386.5	377.8
77.5°	566.2	501.1	577.8	534.1	490.4	472.9	424.4	318.5	304.9	292.3	109.7
80°	381.6	386.5	431.2	368.1	349.6	298.1	235.0	225.3	194.2	77.7	61.2
82.5°	232.1	291.3	274.8	230.2	225.3	162.2	148.6	75.7	56.3	44.7	38.8
85°	120.4	147.6	141.8	125.3	93.2	83.5	46.6	35.9	29.1	22.3	18.5
87.5°	40.8	54.4	52.4	41.8	32.0	25.2	16.5	13.6	9.7	7.8	6.8
90°	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-LD5-58SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3261.0	3261.0	3259.1	3261.0	3262.0	3260.0	3260.0	3262.0	3263.0	3263.9	3268.8
5°	3265.9	3267.8	3270.7	3276.6	3277.5	3289.2	3294.0	3296.9	3299.9	3300.8	3294.0
7.5°	3276.6	3283.4	3289.2	3288.2	3281.4	3263.0	3257.1	3252.3	3261.0	3283.4	3309.6
10°	3286.3	3255.2	3196.9	3276.6	3252.3	3274.6	3340.6	3355.2	3399.9	3463.0	3481.5
12.5°	3219.3	3304.7	3323.2	3233.8	3398.9	3337.7	3410.6	3474.7	3493.1	3557.2	3518.4
15°	3291.1	3332.9	3361.0	3450.4	3440.7	3493.1	3513.5	3500.9	3503.8	3520.3	3564.0
17.5°	3290.1	3373.7	3392.1	3452.3	3493.1	3494.1	3488.3	3482.4	3498.0	3510.6	3484.4
20°	3346.5	3373.7	3409.6	3433.9	3441.6	3451.4	3469.8	3455.2	3426.1	3397.9	3386.3
22.5°	3318.3	3379.5	3410.6	3414.5	3409.6	3379.5	3352.3	3311.5	3297.9	3283.4	3288.2
25°	3324.1	3352.3	3348.4	3332.9	3312.5	3256.2	3242.6	3225.1	3198.9	3135.7	3078.4
27.5°	3282.4	3267.8	3250.3	3212.5	3175.6	3145.5	3111.5	3055.1	3008.5	2940.5	2915.3
30°	3212.5	3154.2	3111.5	3089.1	3053.2	3002.7	2951.2	2882.3	2823.0	2809.4	2796.8
32.5°	3078.4	3021.2	2986.2	2931.8	2870.6	2810.4	2751.2	2724.0	2711.4	2713.3	2701.7
35°	2941.5	2891.0	2838.6	2757.0	2711.4	2651.2	2629.8	2624.0	2612.3	2599.7	2586.1
37.5°	2795.9	2736.6	2658.0	2609.4	2563.8	2539.5	2528.8	2520.1	2499.7	2477.3	2461.8
40°	2655.0	2548.2	2504.5	2456.9	2443.3	2432.7	2417.1	2395.7	2367.6	2363.7	2356.9
42.5°	2466.6	2389.9	2352.0	2342.3	2325.8	2307.4	2293.8	2270.5	2258.8	2266.6	2272.4
45°	2288.0	2249.1	2236.5	2224.8	2193.8	2167.5	2158.8	2151.0	2160.7	2203.5	2101.5
47.5°	2143.3	2127.7	2112.2	2092.8	2063.6	2044.2	2052.9	2060.7	2069.5	1755.8	1602.3
50°	2018.0	1996.6	1972.3	1951.0	1933.5	1931.6	1977.2	1840.3	1541.2	1533.4	1378.0
52.5°	1881.1	1849.0	1834.4	1821.8	1829.6	1858.7	1538.3	1427.5	1369.3	1189.6	1110.0
55°	1733.4	1705.3	1705.3	1716.9	1675.2	1357.6	1341.1	1159.5	1049.8	1018.7	1006.1
57.5°	1585.8	1582.9	1599.4	1462.5	1232.3	1181.9	993.5	953.6	936.2	932.3	911.9
60°	1450.9	1478.0	1237.2	1138.2	989.6	892.5	865.3	860.4	842.0	835.2	816.7
62.5°	1343.1	1113.9	1037.2	846.8	797.3	784.7	770.1	763.3	746.8	659.4	193.3
65°	970.1	916.7	743.9	711.8	707.9	689.5	683.7	614.7	144.7	97.1	82.5
67.5°	732.2	649.7	627.3	621.5	603.1	566.2	168.0	96.1	82.5	71.9	63.1
70°	562.3	547.7	531.2	517.6	152.5	95.2	82.5	69.9	60.2	53.4	48.6
72.5°	460.3	450.6	262.2	100.0	81.6	68.9	61.2	53.4	46.6	42.7	38.8
75°	360.3	100.0	82.5	68.9	59.2	50.5	44.7	39.8	35.9	33.0	30.1
77.5°	81.6	66.0	56.3	47.6	42.7	37.9	34.0	29.1	26.2	23.3	19.4
80°	50.5	43.7	36.9	34.0	29.1	24.3	21.4	19.4	15.5	14.6	12.6
82.5°	33.0	26.2	23.3	19.4	15.5	14.6	12.6	9.7	8.7	7.8	6.8
85°	14.6	12.6	10.7	8.7	6.8	5.8	4.9	3.9	3.9	3.9	3.9
87.5°	4.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.9	1.9
90°	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-LD5-58SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3270.7	3288.2	3304.7	3299.9	3282.4	3255.2	3247.4	3236.7	3244.5	3261.0	3267.8
5°	3294.0	3284.3	3319.3	3370.8	3454.3	3462.0	3520.3	3533.9	3580.5	3609.6	3608.7
7.5°	3327.1	3465.0	3522.2	3584.4	3612.6	3605.8	3614.5	3607.7	3597.0	3592.2	3586.3
10°	3495.1	3599.9	3621.3	3621.3	3577.6	3518.4	3493.1	3449.4	3362.0	3364.0	3349.4
12.5°	3593.1	3630.0	3579.5	3536.8	3361.0	3293.1	3219.3	3184.3	3163.9	3132.8	3144.5
15°	3541.7	3489.2	3459.1	3321.2	3213.4	3091.1	3093.0	3071.6	3049.3	3051.3	3036.7
17.5°	3465.9	3424.2	3210.5	3115.3	3062.9	3015.3	3006.6	2978.4	2963.9	2959.0	2958.0
20°	3362.0	3211.5	3052.2	3028.9	2965.8	2911.4	2902.7	2911.4	2956.1	2876.5	2606.5
22.5°	3240.6	3024.1	2977.4	2911.4	2868.7	2847.3	2900.7	2658.0	2290.9	2335.5	2288.0
25°	3034.7	2940.5	2860.9	2810.4	2805.6	2674.5	2228.7	2182.1	1946.1	1819.9	1678.1
27.5°	2884.2	2843.4	2759.9	2751.2	2688.1	2187.0	1954.9	1698.5	1604.3	1589.7	1558.6
30°	2792.9	2734.7	2684.2	2463.7	2145.2	1760.6	1568.4	1532.4	1515.9	1498.4	1471.2
32.5°	2683.2	2627.8	2652.1	2071.4	1710.1	1515.9	1477.1	1450.9	1420.7	1409.1	1311.0
35°	2571.5	2546.3	2072.4	1741.2	1470.3	1423.7	1394.5	1367.3	1087.7	263.2	89.3
37.5°	2452.1	2446.2	1862.6	1445.0	1377.0	1333.3	1250.8	258.3	61.2	41.8	31.1
40°	2358.8	1863.6	1472.2	1354.7	1299.4	1230.4	172.9	42.7	27.2	16.5	10.7
42.5°	2296.7	1676.2	1317.8	1271.2	1150.8	127.2	43.7	18.5	10.7	8.7	6.8
45°	1770.3	1323.6	1231.4	1182.8	145.7	43.7	25.2	8.7	6.8	5.8	3.9
47.5°	1633.4	1202.2	1147.9	258.3	48.6	23.3	17.5	5.8	3.9	3.9	3.9
50°	1237.2	1111.0	913.8	63.1	31.1	16.5	12.6	3.9	3.9	3.9	2.9
52.5°	1084.7	1025.5	98.1	41.8	24.3	12.6	7.8	2.9	2.9	2.9	2.9
55°	991.5	650.6	58.3	32.0	20.4	11.7	4.9	2.9	2.9	2.9	1.9
57.5°	907.0	87.4	42.7	27.2	18.5	10.7	2.9	2.9	2.9	2.9	1.9
60°	769.1	63.1	35.0	24.3	17.5	9.7	2.9	2.9	2.9	2.9	2.9
62.5°	100.0	49.5	30.1	21.4	12.6	7.8	1.9	2.9	2.9	2.9	2.9
65°	72.8	38.8	27.2	14.6	7.8	2.9	1.9	2.9	2.9	2.9	2.9
67.5°	56.3	32.0	20.4	12.6	6.8	1.9	1.9	2.9	2.9	2.9	2.9
70°	44.7	27.2	16.5	10.7	5.8	1.9	1.9	2.9	2.9	2.9	2.9
72.5°	35.0	19.4	11.7	5.8	3.9	1.9	1.9	2.9	2.9	2.9	2.9
75°	26.2	15.5	8.7	4.9	1.9	1.9	1.9	2.9	2.9	2.9	2.9
77.5°	17.5	9.7	6.8	3.9	3.9	3.9	4.9	4.9	2.9	2.9	2.9
80°	11.7	6.8	4.9	4.9	4.9	3.9	4.9	4.9	2.9	4.9	2.9
82.5°	5.8	4.9	4.9	3.9	3.9	2.9	3.9	3.9	3.9	3.9	2.9
85°	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	2.9
87.5°	1.9	1.9	1.9	1.9	2.9	2.9	2.9	2.9	3.9	3.9	2.9
90°	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-LD5-58SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3259.1	3262.0	3254.2	3296.0	3274.6	3276.6	3285.3	3263.0	3267.8	3252.3	3241.6
5°	3612.6	3618.4	3624.2	3626.2	3630.0	3634.9	3629.1	3626.2	3620.3	3600.9	3580.5
7.5°	3557.2	3550.4	3547.5	3551.4	3558.2	3561.1	3556.2	3563.0	3588.3	3599.0	3605.8
10°	3265.9	3234.8	3256.2	3253.2	3229.0	3310.5	3288.2	3300.8	3309.6	3398.9	3453.3
12.5°	3127.0	3146.4	3109.5	3091.1	3115.3	3131.9	3148.4	3113.4	3162.0	3139.6	3211.5
15°	3010.5	2998.8	2994.9	2995.9	2991.0	3014.4	3020.2	3027.9	3034.7	3064.9	3076.5
17.5°	2958.0	2977.4	2985.2	2991.0	2981.3	2970.7	2960.0	2944.4	2949.3	2941.5	2963.9
20°	2424.9	2359.8	2355.9	2393.8	2352.0	2375.4	2431.7	2808.5	2795.9	2942.5	2893.0
22.5°	2023.8	1962.6	1910.2	1864.5	1929.6	1956.8	2061.7	2180.2	2372.4	2342.3	2551.1
25°	1652.8	1630.5	1616.9	1610.1	1615.0	1613.0	1636.3	1691.7	1779.1	1985.0	2251.1
27.5°	1546.0	1535.3	1530.5	1514.9	1526.6	1522.7	1541.2	1552.8	1579.0	1599.4	1685.9
30°	1461.5	1448.9	1440.2	1423.7	1435.3	1436.3	1442.1	1472.2	1482.9	1500.4	1527.6
32.5°	534.1	314.6	295.2	280.7	306.9	400.1	702.1	1227.5	1400.4	1413.9	1445.0
35°	52.4	43.7	38.8	38.8	39.8	43.7	58.3	153.4	280.7	1084.7	1357.6
37.5°	20.4	17.5	14.6	13.6	14.6	16.5	22.3	29.1	39.8	82.5	368.1
40°	8.7	7.8	6.8	6.8	6.8	6.8	7.8	9.7	14.6	27.2	42.7
42.5°	5.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.8	8.7	17.5
45°	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	4.9	7.8
47.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9
50°	2.9	2.9	2.9	2.9	1.9	2.9	1.9	2.9	2.9	2.9	2.9
52.5°	2.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9	2.9
55°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9
57.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9	2.9	1.9
65°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	2.9	2.9	1.9	2.9	1.9	1.9	2.9	2.9	2.9	1.9	1.9
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	5.8	5.8	3.9
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.9	5.8	4.9
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.9	4.9	4.9
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	3.9
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	3.9
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
90°	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-LD5-58SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3223.1	3222.2	3242.6	3258.1	3252.3	3258.1	3264.9	3265.9	3267.8	3260.0	3257.1
5°	3541.7	3511.6	3453.3	3411.5	3363.0	3274.6	3230.9	3235.8	3236.7	3233.8	3237.7
7.5°	3602.9	3599.9	3579.5	3570.8	3537.8	3474.7	3373.7	3356.2	3313.5	3286.3	3263.9
10°	3449.4	3519.3	3537.8	3568.9	3588.3	3576.6	3491.2	3478.5	3451.4	3420.3	3427.1
12.5°	3283.4	3340.6	3343.6	3512.5	3550.4	3554.3	3521.3	3538.8	3542.6	3472.7	3431.9
15°	3079.4	3106.6	3163.9	3321.2	3435.8	3507.7	3529.0	3538.8	3491.2	3488.3	3471.7
17.5°	2990.1	3007.6	3033.8	3122.1	3296.0	3401.8	3492.1	3485.3	3503.8	3490.2	3448.4
20°	2877.4	2892.0	2938.6	2983.3	3068.7	3209.5	3378.5	3391.1	3415.4	3412.5	3424.2
22.5°	2875.5	2824.0	2831.8	2866.7	2956.1	3082.3	3262.0	3303.7	3319.3	3330.0	3342.6
25°	2281.2	2690.0	2764.8	2787.1	2845.4	2919.2	3130.9	3146.4	3175.6	3223.1	3258.1
27.5°	1976.2	2254.0	2553.1	2708.4	2745.4	2806.5	2932.8	2956.1	3055.1	3066.8	3121.2
30°	1559.6	1774.2	2220.9	2594.8	2656.0	2698.7	2788.1	2834.7	2877.4	2924.0	2981.3
32.5°	1467.4	1501.3	1749.0	2147.1	2623.0	2590.9	2657.0	2685.1	2731.8	2772.5	2814.3
35°	1382.9	1406.2	1458.6	1758.7	2136.5	2502.6	2547.2	2565.7	2591.9	2623.0	2653.1
37.5°	1294.5	1329.5	1365.4	1446.0	1976.2	2432.7	2431.7	2453.0	2468.6	2494.8	2520.1
40°	235.0	1220.7	1279.0	1331.4	1532.4	1940.3	2322.9	2332.6	2343.3	2359.8	2386.0
42.5°	37.9	203.9	1198.4	1248.9	1306.2	1737.3	2273.4	2233.6	2226.8	2238.4	2261.7
45°	19.4	49.5	240.8	1166.3	1217.8	1385.8	1858.7	2164.6	2157.8	2135.5	2140.3
47.5°	14.6	31.1	59.2	403.0	1140.1	1189.6	1715.0	1696.5	1825.7	2073.3	2035.5
50°	12.6	21.4	35.0	82.5	1007.1	1095.4	1320.7	1543.1	1611.1	1619.8	1917.0
52.5°	11.7	14.6	25.2	53.4	211.7	1012.9	1074.1	1151.7	1266.3	1512.0	1506.2
55°	10.7	13.6	21.4	35.9	73.8	912.9	976.0	990.5	1014.8	1132.3	1287.7
57.5°	5.8	12.6	20.4	31.1	55.4	167.0	885.7	897.3	916.7	921.6	976.9
60°	2.9	11.7	18.5	27.2	40.8	77.7	796.3	809.9	821.6	823.5	841.0
62.5°	1.9	10.7	15.5	25.2	34.0	55.4	188.4	384.6	731.3	731.3	751.6
65°	1.9	7.8	9.7	16.5	31.1	45.6	79.6	92.3	179.7	441.9	659.4
67.5°	1.9	2.9	8.7	13.6	23.3	35.0	58.3	68.0	81.6	93.2	172.9
70°	1.9	1.9	7.8	8.7	14.6	26.2	41.8	47.6	55.4	63.1	72.8
72.5°	1.9	1.9	6.8	6.8	9.7	17.5	32.0	35.0	39.8	44.7	51.5
75°	4.9	3.9	5.8	5.8	6.8	13.6	24.3	27.2	29.1	33.0	37.9
77.5°	4.9	4.9	4.9	4.9	4.9	8.7	15.5	17.5	20.4	22.3	26.2
80°	3.9	3.9	3.9	4.9	4.9	5.8	9.7	10.7	11.7	14.6	15.5
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.8	6.8	8.7
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	3.9	3.9
87.5°	2.9	2.9	2.9	1.9	1.9	2.9	2.9	2.9	2.9	2.9	2.9
90°	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-LD5-58SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3256.2	3250.3	3245.5	3248.4	3239.7	3235.8	3238.7	3239.7	3241.6	3246.4	3247.4
5°	3247.4	3245.5	3254.2	3259.1	3257.1	3259.1	3259.1	3255.2	3249.4	3253.2	3244.5
7.5°	3241.6	3229.0	3219.3	3221.2	3211.5	3223.1	3233.8	3249.4	3254.2	3254.2	3244.5
10°	3341.6	3328.0	3273.6	3236.7	3212.5	3191.1	3241.6	3190.1	3214.4	3122.1	3228.0
12.5°	3424.2	3442.6	3418.3	3317.3	3299.9	3235.8	3272.7	3209.5	3191.1	3085.2	3119.2
15°	3457.2	3422.2	3414.5	3386.3	3348.4	3330.0	3230.9	3220.2	3190.1	3201.8	3157.1
17.5°	3428.0	3445.5	3422.2	3403.8	3364.9	3321.2	3262.0	3209.5	3167.8	3074.6	3153.2
20°	3399.9	3423.2	3353.3	3364.9	3368.8	3318.3	3287.2	3243.5	3191.1	3103.7	3035.7
22.5°	3353.3	3336.8	3342.6	3325.1	3310.5	3317.3	3274.6	3244.5	3156.1	3116.3	3024.1
25°	3277.5	3271.7	3287.2	3285.3	3250.3	3238.7	3217.3	3185.3	3150.3	3086.2	3010.5
27.5°	3154.2	3184.3	3211.5	3224.1	3205.7	3174.6	3162.9	3144.5	3120.2	3055.1	2998.8
30°	3024.1	3058.1	3089.1	3116.3	3132.8	3119.2	3108.6	3097.9	3061.0	3018.2	2955.1
32.5°	2875.5	2920.2	2962.9	2995.9	3031.8	3042.5	3034.7	3026.0	2994.9	2956.1	2905.6
35°	2703.6	2764.8	2826.9	2886.2	2901.7	2927.0	2952.2	2937.6	2921.1	2882.3	2835.7
37.5°	2557.9	2601.6	2646.3	2721.1	2775.5	2807.5	2852.2	2858.0	2829.8	2811.4	2750.2
40°	2407.4	2447.2	2512.3	2556.0	2630.8	2667.7	2715.2	2736.6	2729.8	2719.1	2665.7
42.5°	2288.9	2308.3	2351.1	2389.9	2463.7	2539.5	2581.2	2604.5	2628.8	2620.1	2592.9
45°	2162.7	2180.2	2194.7	2228.7	2300.6	2367.6	2419.1	2454.0	2497.7	2518.1	2485.1
47.5°	2037.4	2042.3	2059.7	2087.9	2130.6	2182.1	2268.5	2321.0	2361.8	2401.6	2380.2
50°	1941.3	1923.8	1926.7	1944.2	1979.1	2029.6	2091.8	2165.6	2212.2	2260.8	2265.6
52.5°	1696.5	1838.3	1804.3	1814.0	1832.5	1856.8	1921.8	1994.7	2052.0	2093.7	2135.5
55°	1423.7	1451.8	1724.7	1685.9	1697.5	1718.9	1749.0	1821.8	1877.2	1935.4	1993.7
57.5°	1104.2	1313.9	1324.6	1577.1	1571.3	1573.2	1598.5	1640.2	1695.6	1768.4	1817.9
60°	858.5	946.8	1118.7	1206.1	1427.5	1435.3	1449.9	1474.2	1521.7	1590.7	1669.4
62.5°	757.5	769.1	830.3	961.4	1105.1	1279.0	1310.0	1313.9	1335.3	1404.2	1495.5
65°	665.2	673.0	691.4	705.0	825.5	993.5	1143.0	1167.3	1180.9	1221.7	1299.4
67.5°	458.4	579.8	596.3	606.0	617.6	695.3	880.8	1004.1	1019.7	1055.6	1123.6
70°	88.4	183.5	502.1	512.8	518.6	536.1	566.2	762.3	865.3	899.3	930.3
72.5°	60.2	70.9	85.5	202.0	427.3	437.0	443.8	469.1	642.9	741.9	758.4
75°	43.7	48.6	57.3	70.9	87.4	284.5	352.5	365.1	377.8	521.5	605.0
77.5°	31.1	35.0	38.8	45.6	53.4	68.9	99.1	272.9	285.5	292.3	412.7
80°	17.5	21.4	26.2	30.1	34.0	38.8	50.5	63.1	140.8	205.9	216.6
82.5°	9.7	11.7	13.6	16.5	18.5	23.3	28.2	34.0	44.7	66.0	139.8
85°	4.9	4.9	4.9	6.8	7.8	10.7	12.6	14.6	20.4	28.2	38.8
87.5°	2.9	2.9	3.9	3.9	3.9	4.9	4.9	4.9	5.8	8.7	12.6
90°	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-LD5-58SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3235.8	3235.8	3235.8	3235.8	3235.8
2.5°	3248.4	3245.5	3245.5	3257.1	3254.2
5°	3242.6	3239.7	3238.7	3251.3	3245.5
7.5°	3237.7	3227.0	3224.1	3235.8	3230.9
10°	3218.3	3210.5	3215.4	3211.5	3209.5
12.5°	3185.3	3180.4	3160.0	3162.0	3178.5
15°	3126.0	3145.5	3110.5	3141.6	3148.4
17.5°	3017.3	3061.0	3095.0	3113.4	3116.3
20°	3065.8	3080.4	3062.9	3063.9	3075.5
22.5°	3002.7	3009.5	3014.4	3008.5	3033.8
25°	2901.7	2875.5	2931.8	2943.5	2984.2
27.5°	2870.6	2849.3	2875.5	2873.5	2907.5
30°	2845.4	2776.4	2788.1	2806.5	2848.3
32.5°	2809.4	2700.7	2689.0	2729.8	2776.4
35°	2746.3	2643.4	2616.2	2642.4	2712.3
37.5°	2692.9	2563.8	2509.4	2544.3	2635.6
40°	2613.3	2501.6	2417.1	2448.2	2556.0
42.5°	2518.1	2448.2	2318.1	2339.4	2462.8
45°	2422.0	2359.8	2221.9	2232.6	2379.2
47.5°	2323.9	2266.6	2121.9	2123.8	2272.4
50°	2227.7	2152.0	2032.6	1998.6	2158.8
52.5°	2102.5	2032.6	1942.2	1886.9	2051.0
55°	1984.0	1905.3	1839.3	1753.8	1928.6
57.5°	1868.4	1781.0	1736.4	1626.6	1789.8
60°	1710.1	1668.4	1602.3	1497.5	1664.5
62.5°	1548.0	1534.4	1467.4	1358.6	1510.1
65°	1358.6	1390.6	1321.7	1228.5	1349.9
67.5°	1179.9	1237.2	1161.5	1104.2	1195.4
70°	989.6	1055.6	1012.9	992.5	1031.3
72.5°	802.1	866.2	870.1	855.6	868.2
75°	619.6	690.5	729.3	707.0	709.9
77.5°	470.0	504.0	546.7	564.2	560.3
80°	290.4	349.6	384.6	420.5	407.9
82.5°	146.6	196.2	238.9	277.7	259.3
85°	61.2	78.7	109.7	144.7	138.9
87.5°	18.5	31.1	33.0	46.6	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)