

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213494

Luminaire Tested: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

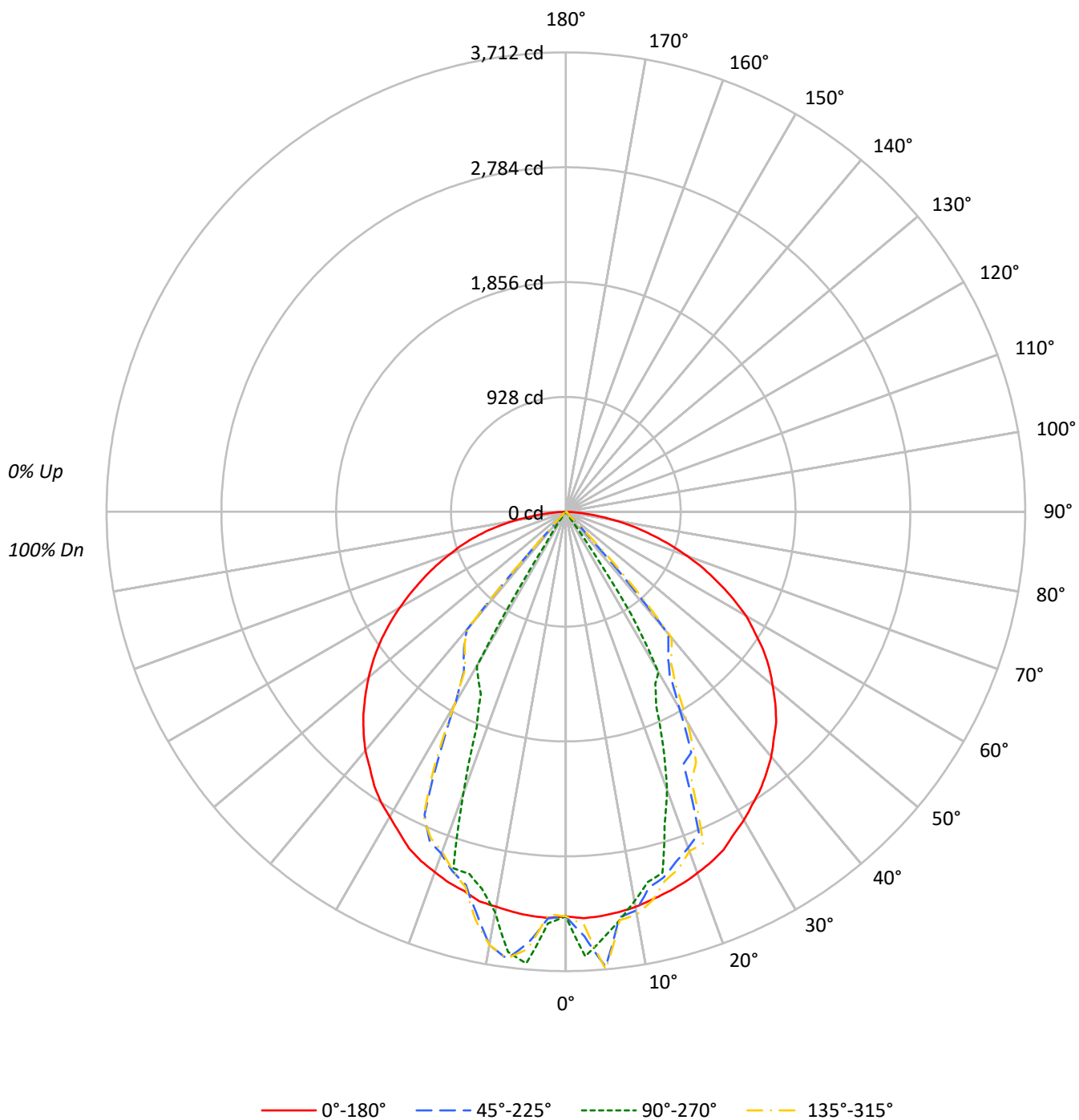
Lumens per Lamp: N/A
Luminaire Lumens: 4648.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 43
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: 24 FT

TEST NUMBER: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26415	26415	26415	26415
5°	26523	27168	26516	28771
10°	26459	24584	26444	25294
15°	26387	22947	26323	23006
20°	26418	18074	26343	18297
25°	26494	13080	26365	12343
30°	26374	11474	26095	11030
35°	26452	253	26063	306
40°	26543	55	25907	55
45°	26636	32	25636	24
50°	26432	25	25220	25
55°	26277	18	24664	18
60°	25781	20	23765	20
65°	24436	31	22696	21
70°	22671	34	21581	34
75°	20051	38	20381	38
80°	16287	43	17220	43
85°	9585	51	9783	51

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 28761 cd/sqm

TEST NUMBER: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.0	7.1
10°-20°	894.5	19.2
20°-30°	1138.3	24.5
30°-40°	961.5	20.7
40°-50°	628.6	13.5
50°-60°	396.1	8.5
60°-70°	210.8	4.5
70°-80°	76.9	1.7
80°-90°	13.2	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°	2360.8	50.8
0°-40°	3322.3	71.5
0°-60°	4347.0	93.5
0°-90°	4648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4648.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3269	3269	3269	3269	3269	
5°	3279	3459	3278	3663	3279	312
15°	3180	3019	3173	3026	3180	899
25°	3015	1724	3000	1627	3015	1386
35°	2740	32	2700	39	2740	1714
45°	2404	4	2313	3	2404	1848
55°	1948	2	1829	2	1948	1736
65°	1364	3	1266	2	1364	1351
75°	717	3	729	3	717	761
85°	140	3	143	3	140	177
90°	0	0	0	0	0	

TEST NUMBER: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3287.5	3289.4	3290.4	3292.4	3295.3	3296.3	3298.3	3296.3	3296.3	3296.3	3296.3
5°	3278.6	3282.6	3285.5	3289.4	3296.3	3297.3	3305.1	3306.1	3310.0	3317.9	3323.8
7.5°	3263.9	3267.8	3273.7	3283.5	3293.3	3304.1	3317.9	3332.6	3353.2	3372.8	3397.3
10°	3242.3	3247.2	3254.1	3262.9	3311.0	3317.9	3348.3	3390.5	3402.2	3464.0	3510.2
12.5°	3210.9	3227.6	3245.3	3253.1	3299.2	3371.8	3473.9	3453.3	3430.7	3632.8	3629.8
15°	3180.5	3203.1	3194.3	3258.0	3300.2	3426.8	3383.6	3475.8	3644.6	3603.4	3605.3
17.5°	3148.2	3153.1	3202.1	3255.1	3330.6	3395.4	3448.4	3574.9	3608.3	3611.2	3574.9
20°	3106.9	3130.5	3202.1	3250.2	3377.7	3408.1	3522.9	3587.7	3573.9	3540.6	3478.8
22.5°	3064.8	3136.4	3209.0	3276.7	3365.9	3447.4	3504.3	3534.7	3463.1	3331.6	3261.0
25°	3014.7	3056.9	3152.1	3251.2	3363.0	3410.1	3443.4	3394.4	3301.2	3183.5	3064.8
27.5°	2937.2	3004.9	3126.6	3238.4	3339.5	3396.4	3342.4	3224.7	3074.6	2997.1	2943.1
30°	2877.4	2965.7	3065.7	3173.7	3278.6	3312.0	3174.6	3040.2	2937.2	2859.7	2848.0
32.5°	2804.8	2930.4	3025.5	3128.5	3216.8	3172.7	3039.3	2865.6	2780.3	2750.8	2762.6
35°	2740.0	2835.2	2959.8	3060.8	3124.6	3025.5	2814.6	2706.7	2665.5	2682.2	2660.6
37.5°	2662.5	2788.1	2902.9	2990.2	2968.6	2819.5	2641.0	2572.3	2577.2	2563.5	2522.3
40°	2582.1	2701.8	2821.5	2903.9	2828.3	2600.7	2482.0	2467.3	2470.3	2426.1	2367.2
42.5°	2487.9	2596.8	2716.5	2791.1	2628.2	2450.6	2370.2	2372.2	2346.6	2284.8	2253.4
45°	2403.5	2503.6	2628.2	2635.1	2434.9	2286.8	2263.3	2237.7	2180.8	2160.2	2136.7
47.5°	2295.6	2406.5	2509.5	2472.2	2245.6	2153.4	2135.7	2079.8	2051.4	2035.7	2016.0
50°	2180.8	2292.7	2386.9	2280.9	2067.0	2045.5	1987.6	1943.4	1923.8	1907.1	1889.5
52.5°	2072.0	2164.2	2260.3	2077.8	1929.7	1909.1	1843.4	1817.9	1798.2	1779.6	1775.7
55°	1948.3	2029.8	2095.5	1884.6	1798.2	1750.2	1703.1	1685.4	1666.8	1658.0	1672.7
57.5°	1808.1	1900.3	1890.5	1694.3	1656.0	1586.3	1568.7	1556.9	1543.2	1549.1	1426.4
60°	1681.5	1752.1	1704.1	1554.9	1490.2	1443.1	1427.4	1419.6	1427.4	1307.7	1149.8
62.5°	1525.5	1605.0	1507.9	1392.1	1323.4	1300.9	1287.1	1297.9	1183.1	1051.7	1013.4
65°	1363.6	1450.0	1306.7	1217.5	1174.3	1154.7	1153.7	1062.5	949.6	898.6	898.6
67.5°	1207.7	1296.9	1112.5	1037.9	1021.3	1023.2	966.3	828.0	796.6	762.3	663.2
70°	1041.9	1120.3	919.2	874.1	864.3	857.4	719.1	681.8	644.5	553.3	545.5
72.5°	877.0	915.3	738.7	727.9	726.0	603.3	575.9	512.1	468.9	458.1	453.2
75°	717.1	705.4	583.7	593.5	500.3	457.2	413.0	375.7	369.9	365.9	91.2
77.5°	566.1	507.2	460.1	400.3	358.1	304.1	295.3	289.4	190.3	68.7	55.9
80°	412.0	328.6	306.1	260.0	221.7	212.9	217.8	66.7	53.0	44.1	38.3
82.5°	261.9	209.9	171.7	150.1	146.2	63.8	47.1	38.3	33.4	28.5	23.5
85°	140.3	93.2	86.3	72.6	43.2	29.4	24.5	18.6	15.7	12.8	11.8
87.5°	44.1	37.3	30.4	24.5	14.7	9.8	7.8	6.9	5.9	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

TEST NUMBER: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3294.3	3296.3	3295.3	3298.3	3298.3	3302.2	3305.1	3308.1	3313.9	3316.9	3339.5
5°	3336.5	3341.4	3356.1	3369.9	3386.5	3391.5	3419.9	3426.8	3460.1	3464.0	3573.9
7.5°	3430.7	3449.3	3484.6	3520.0	3555.3	3577.8	3617.1	3641.6	3668.1	3691.6	3779.0
10°	3544.5	3575.9	3610.2	3645.5	3666.1	3709.3	3732.9	3736.8	3729.9	3691.6	3550.4
12.5°	3656.3	3687.7	3673.0	3679.9	3704.4	3627.9	3638.7	3583.7	3622.0	3432.7	3292.4
15°	3640.6	3638.7	3602.4	3484.6	3504.3	3358.1	3299.2	3254.1	3290.4	3270.8	3249.2
17.5°	3593.5	3504.3	3441.5	3300.2	3240.4	3199.2	3200.1	3201.1	3183.5	3202.1	3147.2
20°	3394.4	3294.3	3201.1	3151.1	3133.4	3104.0	3118.7	3104.0	3105.0	3110.9	3026.5
22.5°	3129.5	3099.1	3045.1	3060.8	3055.0	3081.4	3061.8	3031.4	3041.2	2997.1	2933.3
25°	3022.6	2987.3	2985.3	2991.2	2982.4	2970.6	2952.9	2906.8	2903.9	2890.1	2860.7
27.5°	2914.7	2916.6	2922.5	2904.9	2873.5	2849.9	2823.4	2800.9	2809.7	2794.0	2753.8
30°	2840.1	2839.1	2803.8	2788.1	2730.2	2731.2	2724.3	2710.6	2701.8	2702.8	2677.3
32.5°	2734.2	2703.7	2663.5	2643.9	2639.0	2621.3	2607.6	2610.5	2617.4	2592.9	2619.4
35°	2625.3	2562.5	2556.6	2539.9	2524.2	2512.4	2517.3	2497.7	2496.7	2493.8	2278.0
37.5°	2479.1	2448.7	2445.7	2428.1	2417.3	2414.3	2395.7	2398.6	2407.5	2423.2	1942.5
40°	2358.4	2330.9	2324.1	2323.1	2299.6	2297.6	2302.5	2321.1	2333.9	2235.8	1851.2
42.5°	2228.9	2230.9	2209.3	2195.6	2198.5	2207.3	2230.9	2166.1	1876.7	1788.4	1692.3
45°	2118.1	2108.3	2096.5	2092.6	2118.1	2100.4	1841.4	1699.2	1664.8	1660.9	1391.1
47.5°	2002.3	1999.4	1994.5	1997.4	1852.2	1651.1	1592.2	1573.6	1579.5	1575.5	1194.9
50°	1885.6	1889.5	1889.5	1650.1	1514.7	1481.4	1486.3	1503.0	1399.0	1305.8	1113.5
52.5°	1784.5	1754.1	1503.0	1416.6	1386.2	1400.9	1365.6	1235.1	1140.9	1086.0	1030.1
55°	1597.1	1373.5	1317.5	1303.8	1314.6	1184.1	1103.7	1019.3	994.8	988.9	956.5
57.5°	1256.7	1211.6	1216.5	1161.5	1037.0	963.4	931.0	919.2	908.4	900.6	78.5
60°	1111.5	1124.3	1029.1	911.4	861.4	851.5	843.7	832.9	830.9	817.2	50.0
62.5°	1017.3	894.7	812.3	782.9	771.1	768.2	753.4	748.5	635.7	87.3	37.3
65°	767.2	717.1	701.4	694.6	681.8	681.8	566.1	89.3	72.6	62.8	33.4
67.5°	625.9	622.0	614.1	605.3	412.0	86.3	75.5	65.7	56.9	50.0	29.4
70°	529.8	527.8	480.7	88.3	73.6	64.7	56.9	51.0	47.1	42.2	26.5
72.5°	434.6	88.3	74.6	64.7	55.9	51.0	46.1	41.2	37.3	34.3	21.6
75°	67.7	59.8	53.0	48.1	44.1	39.2	35.3	32.4	31.4	27.5	14.7
77.5°	49.1	42.2	38.3	34.3	30.4	27.5	23.5	20.6	18.6	15.7	10.8
80°	34.3	30.4	27.5	22.6	19.6	16.7	14.7	12.8	11.8	9.8	4.9
82.5°	19.6	16.7	14.7	11.8	10.8	8.8	7.8	6.9	6.9	4.9	4.9
85°	8.8	8.8	6.9	5.9	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	2.0
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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3370.8	3383.6	3408.1	3433.6	3405.2	3507.2	3499.4	3533.7	3552.3	3561.2	3581.8
5°	3671.0	3727.9	3746.6	3690.7	3658.3	3624.9	3549.4	3492.5	3499.4	3480.7	3413.0
7.5°	3665.2	3543.5	3379.7	3305.1	3299.2	3290.4	3313.9	3327.7	3329.6	3328.7	3326.7
10°	3355.2	3292.4	3281.6	3271.8	3275.7	3239.4	3222.7	3175.6	3201.1	3187.4	3192.3
12.5°	3261.0	3246.3	3188.4	3107.9	3156.0	3119.7	3099.1	3112.8	3097.1	3082.4	3077.5
15°	3205.1	3109.9	3077.5	3057.9	3044.2	3036.3	3043.2	3027.5	3022.6	3019.6	3026.5
17.5°	3089.3	3051.0	3015.7	2963.7	2964.7	2961.8	2981.4	3010.8	3012.8	2861.7	2725.3
20°	2998.1	2966.7	2921.5	2889.2	2933.3	2854.8	2551.7	2407.5	2384.9	2384.9	2388.8
22.5°	2925.5	2855.8	2858.7	2807.7	2394.7	2310.3	2312.3	2321.1	2280.9	2143.6	2128.9
25°	2826.4	2815.6	2600.7	2247.6	2250.5	2184.8	2083.7	1941.5	1787.5	1787.5	1761.9
27.5°	2751.8	2523.2	2209.3	2194.6	1973.9	1834.5	1748.2	1617.7	1600.1	1583.4	1585.4
30°	2688.0	2134.7	2142.6	1834.5	1671.7	1555.9	1549.1	1527.5	1516.7	1513.7	1503.0
32.5°	2124.9	2078.8	1793.3	1561.8	1498.0	1479.4	1470.6	1446.1	1445.1	1426.4	1296.9
35°	1992.5	1824.7	1501.0	1438.2	1419.6	1401.9	1387.2	931.0	109.9	44.1	38.3
37.5°	1841.4	1524.5	1388.2	1359.7	1342.1	991.8	99.1	34.3	24.5	17.7	15.7
40°	1560.8	1361.7	1318.5	1287.1	530.7	34.3	21.6	16.7	9.8	8.8	7.8
42.5°	1316.6	1283.2	1237.1	376.7	39.2	16.7	10.8	7.8	6.9	6.9	5.9
45°	1232.2	1202.8	498.4	37.3	24.5	7.8	6.9	6.9	5.9	3.9	3.9
47.5°	1153.7	1015.4	45.1	23.5	15.7	6.9	5.9	3.9	3.9	3.9	2.9
50°	1070.3	55.9	31.4	17.7	9.8	3.9	3.9	3.9	3.9	2.9	2.9
52.5°	200.1	39.2	25.5	15.7	4.9	3.9	3.9	3.9	2.9	2.9	2.9
55°	47.1	31.4	23.5	13.7	3.9	3.9	3.9	2.9	2.9	2.9	2.0
57.5°	35.3	23.5	18.6	12.8	3.9	2.9	2.9	2.9	2.9	2.9	2.0
60°	29.4	16.7	14.7	11.8	2.9	2.9	2.9	2.9	2.9	2.9	2.0
62.5°	20.6	13.7	10.8	8.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9
65°	16.7	10.8	8.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
67.5°	14.7	8.8	5.9	2.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
70°	11.8	2.9	2.9	2.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
72.5°	9.8	2.9	2.0	2.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	9.8	4.9	2.0	2.0	2.9	2.9	3.9	3.9	2.9	2.9	2.9
77.5°	6.9	4.9	2.0	2.0	2.9	2.9	3.9	3.9	2.9	2.9	2.9
80°	3.9	4.9	2.0	2.9	2.9	5.9	6.9	3.9	2.9	2.9	2.9
82.5°	3.9	4.9	5.9	5.9	2.9	4.9	5.9	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°	2.0	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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3591.6	3595.5	3533.7	3512.1	3530.8	3526.8	3510.2	3448.4	3441.5	3400.3	3340.4
5°	3432.7	3459.1	3426.8	3482.7	3456.2	3482.7	3563.1	3600.4	3661.2	3698.5	3712.3
7.5°	3321.8	3327.7	3327.7	3332.6	3337.5	3338.5	3332.6	3328.7	3312.0	3291.4	3328.7
10°	3187.4	3194.3	3206.0	3204.1	3203.1	3223.7	3228.6	3270.8	3268.8	3276.7	3305.1
12.5°	3117.7	3064.8	3112.8	3100.1	3117.7	3090.3	3141.3	3132.5	3135.4	3158.9	3219.8
15°	3002.0	3018.7	3030.4	3030.4	3037.3	3031.4	3025.5	3065.7	3090.3	3091.3	3087.3
17.5°	2779.3	2652.7	2782.2	2748.9	3014.7	3021.6	2999.0	2980.4	2980.4	2995.1	3026.5
20°	2385.9	2388.8	2389.8	2402.6	2418.3	2417.3	2418.3	2804.8	2988.2	2946.1	2917.6
22.5°	2091.6	2055.3	2123.0	2118.1	2202.4	2295.6	2384.9	2376.1	2382.0	2654.7	2900.0
25°	1676.6	1723.7	1685.4	1702.1	1797.3	1908.1	1976.8	2156.3	2351.5	2337.8	2401.6
27.5°	1578.5	1565.7	1583.4	1583.4	1596.2	1610.9	1649.1	1750.2	1923.8	2106.3	2279.0
30°	1485.3	1496.1	1498.0	1515.7	1525.5	1535.3	1541.2	1579.5	1618.7	1745.3	1958.2
32.5°	1115.4	978.1	1287.1	1370.5	1441.1	1457.8	1469.6	1485.3	1513.7	1532.4	1639.3
35°	32.4	32.4	34.3	39.2	50.0	337.5	1285.2	1416.6	1435.3	1458.8	1478.4
37.5°	15.7	11.8	13.7	14.7	17.7	24.5	35.3	109.9	1223.4	1383.3	1404.8
40°	6.9	6.9	6.9	6.9	7.8	9.8	14.7	24.5	37.3	984.0	1327.3
42.5°	5.9	5.9	5.9	5.9	5.9	5.9	6.9	8.8	17.7	42.2	696.5
45°	3.9	3.9	2.9	3.9	3.9	4.9	5.9	5.9	7.8	26.5	48.1
47.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.9	5.9	17.7	25.5
50°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	13.7	17.7
52.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	5.9	15.7
55°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9	2.9	3.9	13.7
57.5°	2.0	2.0	2.0	2.0	2.0	2.9	2.0	2.0	2.9	2.9	12.8
60°	2.0	2.0	2.0	2.0	2.0	2.9	2.9	2.9	2.9	2.9	11.8
62.5°	2.9	2.9	2.0	2.9	2.0	2.0	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	2.0	2.9
67.5°	2.9	2.9	2.9	2.9	2.0	2.9	2.0	2.9	2.9	2.0	2.0
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	2.0
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	2.0
75°	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	2.0	2.0	2.0
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	4.9	5.9	4.9	4.9	2.0
80°	2.9	2.9	2.9	2.9	2.9	2.9	4.9	4.9	4.9	4.9	6.9
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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3345.3	3312.0	3301.2	3278.6	3276.7	3278.6	3273.7	3266.9	3270.8	3263.9	3258.0
5°	3720.1	3630.8	3572.9	3495.4	3388.5	3365.0	3359.1	3325.7	3313.9	3310.0	3294.3
7.5°	3417.0	3579.8	3677.9	3711.3	3585.7	3556.3	3521.9	3494.5	3468.0	3417.9	3387.5
10°	3282.6	3290.4	3384.6	3494.5	3673.0	3697.5	3716.2	3656.3	3639.7	3512.1	3484.6
12.5°	3251.2	3252.1	3262.9	3329.6	3469.9	3485.6	3551.4	3586.7	3629.8	3654.4	3634.7
15°	3107.9	3187.4	3246.3	3252.1	3264.9	3292.4	3312.0	3434.6	3486.6	3625.9	3618.1
17.5°	3041.2	3066.7	3152.1	3221.7	3210.0	3200.1	3215.8	3232.5	3282.6	3421.9	3419.9
20°	2930.4	3011.8	3057.9	3130.5	3196.2	3199.2	3181.5	3171.7	3152.1	3174.6	3195.2
22.5°	2883.3	2896.0	2982.4	3033.4	3107.9	3134.4	3138.3	3139.3	3128.5	3116.8	3110.9
25°	2878.4	2838.1	2882.3	2946.1	3001.0	3029.4	3061.8	3072.6	3068.7	3068.7	3062.8
27.5°	2355.5	2825.4	2801.8	2844.0	2910.7	2930.4	2947.0	2980.4	3001.0	3015.7	3022.6
30°	2243.6	2328.0	2739.1	2744.9	2812.6	2810.7	2829.3	2856.8	2883.3	2917.6	2926.4
32.5°	1984.6	2191.6	2507.5	2645.9	2716.5	2723.4	2733.2	2741.0	2765.5	2803.8	2837.2
35°	1590.3	1996.4	2148.5	2598.8	2611.5	2625.3	2631.1	2649.8	2657.6	2673.3	2702.8
37.5°	1439.2	1650.1	2061.2	2247.6	2490.9	2502.6	2534.0	2541.9	2554.6	2567.4	2589.9
40°	1351.9	1409.8	1715.8	2007.2	2393.7	2401.6	2412.4	2432.0	2433.0	2447.7	2468.3
42.5°	1282.2	1319.5	1408.8	1916.9	2325.1	2324.1	2298.6	2311.3	2317.2	2332.9	2361.4
45°	1024.2	1238.1	1295.0	1565.7	1851.2	1984.6	2240.7	2198.5	2197.5	2203.4	2233.8
47.5°	52.0	1164.5	1204.7	1292.0	1748.2	1753.1	1786.5	2067.0	2110.2	2096.5	2099.4
50°	35.3	80.4	1122.3	1162.5	1506.9	1628.5	1653.1	1665.8	1827.7	2008.2	1978.8
52.5°	27.5	46.1	687.7	1079.1	1224.3	1313.6	1471.6	1561.8	1571.6	1644.2	1890.5
55°	24.5	35.3	74.6	995.8	1040.9	1060.5	1152.7	1310.7	1438.2	1476.5	1479.4
57.5°	21.6	32.4	51.0	450.3	946.7	950.6	966.3	1021.3	1136.0	1241.0	1359.7
60°	19.6	28.5	40.2	77.5	860.4	870.2	873.1	887.8	901.6	973.2	1109.6
62.5°	11.8	22.6	35.3	55.9	680.8	781.9	780.9	790.7	803.5	811.3	838.8
65°	9.8	17.7	30.4	47.1	83.4	104.0	631.8	702.4	710.3	721.1	726.0
67.5°	8.8	15.7	22.6	37.3	62.8	71.6	82.4	102.0	557.2	627.9	637.7
70°	7.8	10.8	18.6	31.4	51.0	54.9	61.8	70.6	83.4	103.0	504.3
72.5°	4.9	7.8	12.8	22.6	39.2	44.1	48.1	54.0	59.8	71.6	82.4
75°	2.0	5.9	10.8	16.7	30.4	33.4	36.3	40.2	45.1	53.0	58.9
77.5°	2.0	4.9	8.8	11.8	19.6	22.6	26.5	29.4	33.4	37.3	43.2
80°	6.9	3.9	5.9	8.8	13.7	14.7	16.7	18.6	21.6	24.5	28.5
82.5°	4.9	5.9	6.9	5.9	6.9	8.8	9.8	11.8	12.8	14.7	15.7
85°	3.9	3.9	4.9	4.9	4.9	4.9	4.9	4.9	5.9	6.9	8.8
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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3258.0	3256.1	3250.2	3250.2	3249.2	3253.1	3256.1	3259.0	3258.0	3263.9	3258.0
5°	3282.6	3277.7	3268.8	3261.0	3258.0	3260.0	3257.0	3260.0	3256.1	3261.0	3252.1
7.5°	3350.2	3333.6	3299.2	3285.5	3267.8	3266.9	3258.0	3256.1	3250.2	3250.2	3239.4
10°	3469.9	3389.5	3379.7	3338.5	3323.8	3252.1	3267.8	3241.4	3238.4	3225.7	3220.8
12.5°	3568.0	3505.3	3486.6	3450.3	3409.1	3263.9	3296.3	3239.4	3236.4	3210.9	3184.5
15°	3570.0	3606.3	3555.3	3455.2	3446.4	3346.3	3280.6	3261.0	3235.5	3158.9	3171.7
17.5°	3455.2	3538.6	3563.1	3541.6	3478.8	3411.1	3318.9	3279.6	3203.1	3168.8	3145.2
20°	3268.8	3353.2	3458.2	3465.0	3504.3	3456.2	3335.5	3271.8	3179.5	3119.7	3100.1
22.5°	3120.7	3182.5	3303.2	3359.1	3407.1	3423.8	3347.3	3253.1	3138.3	3080.5	3068.7
25°	3042.2	3055.9	3092.2	3158.0	3263.9	3340.4	3351.2	3251.2	3191.3	3064.8	2998.1
27.5°	3013.8	3002.0	2987.3	3020.6	3100.1	3193.3	3255.1	3271.8	3122.6	3002.0	2935.3
30°	2941.2	2948.0	2925.5	2913.7	2965.7	3061.8	3171.7	3199.2	3084.4	2959.8	2883.3
32.5°	2851.9	2863.7	2867.6	2847.0	2836.2	2902.9	3021.6	3087.3	3081.4	2900.0	2814.6
35°	2740.0	2773.4	2782.2	2783.2	2765.5	2754.8	2823.4	2959.8	3011.8	2872.5	2748.9
37.5°	2622.3	2632.1	2680.2	2693.0	2693.0	2660.6	2711.6	2820.5	2893.1	2810.7	2668.4
40°	2475.2	2506.6	2551.7	2574.2	2596.8	2599.8	2571.3	2647.8	2767.5	2746.9	2592.9
42.5°	2368.2	2388.8	2416.3	2446.7	2492.8	2504.6	2475.2	2488.9	2613.5	2667.4	2494.8
45°	2243.6	2271.1	2279.0	2312.3	2360.4	2394.7	2393.7	2365.3	2465.4	2532.1	2423.2
47.5°	2116.1	2142.6	2156.3	2173.0	2208.3	2252.5	2277.0	2264.2	2283.9	2414.3	2328.0
50°	1984.6	1999.4	2026.8	2045.5	2069.0	2094.5	2153.4	2165.2	2137.7	2241.7	2223.0
52.5°	1860.0	1865.0	1883.6	1902.2	1933.6	1952.3	1999.4	2034.7	2032.7	2063.1	2106.3
55°	1762.9	1741.3	1745.3	1760.0	1780.6	1809.0	1835.5	1890.5	1909.1	1915.0	1983.7
57.5°	1377.4	1599.1	1618.7	1617.7	1642.3	1655.0	1679.5	1715.8	1782.5	1767.8	1844.4
60°	1251.8	1276.3	1461.7	1483.3	1492.2	1503.9	1533.4	1566.7	1615.8	1647.2	1680.5
62.5°	954.6	1103.7	1159.6	1323.4	1348.9	1355.8	1375.4	1391.1	1442.1	1513.7	1500.0
65°	738.7	802.5	973.2	1039.9	1179.2	1196.9	1224.3	1241.0	1255.7	1338.1	1342.1
67.5°	638.7	648.5	694.6	823.1	911.4	1047.7	1064.4	1079.1	1101.7	1160.6	1196.9
70°	545.5	557.2	570.0	580.8	695.6	785.8	912.4	917.3	932.0	971.2	1053.6
72.5°	103.0	466.0	473.8	480.7	493.5	553.3	674.0	772.1	778.0	796.6	872.1
75°	69.7	81.4	111.8	384.6	397.3	401.2	421.8	544.5	634.7	638.7	672.0
77.5°	50.0	55.9	67.7	80.4	205.0	308.0	313.0	335.5	428.7	496.4	502.3
80°	34.3	38.3	45.1	51.0	62.8	82.4	227.6	234.5	246.2	339.4	357.1
82.5°	19.6	22.6	26.5	32.4	37.3	47.1	60.8	78.5	159.9	170.7	226.6
85°	9.8	10.8	12.8	15.7	18.6	22.6	30.4	37.3	51.0	92.2	95.2
87.5°	4.9	4.9	4.9	4.9	7.8	8.8	10.8	13.7	17.7	26.5	34.3
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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3259.0	3272.7	3284.5	3287.5	3287.5	3289.4	3292.4	3294.3	3296.3	3298.3	3296.3
5°	3253.1	3267.8	3277.7	3280.6	3280.6	3286.5	3291.4	3297.3	3300.2	3300.2	3298.3
7.5°	3238.4	3249.2	3262.0	3269.8	3270.8	3280.6	3289.4	3288.4	3292.4	3294.3	3299.2
10°	3218.8	3218.8	3240.4	3246.3	3251.2	3262.0	3264.9	3270.8	3284.5	3286.5	3299.2
12.5°	3209.0	3199.2	3224.7	3227.6	3244.3	3230.6	3248.2	3254.1	3240.4	3259.0	3234.5
15°	3164.8	3176.6	3172.7	3181.5	3210.9	3195.2	3243.3	3227.6	3262.9	3220.8	3295.3
17.5°	3128.5	3126.6	3142.3	3150.1	3156.0	3189.4	3202.1	3219.8	3233.5	3221.7	3251.2
20°	3102.0	3086.3	3098.1	3106.9	3127.6	3153.1	3160.9	3134.4	3180.5	3259.0	3277.7
22.5°	3052.0	3041.2	3055.0	3055.0	3086.3	3082.4	3111.9	3095.2	3138.3	3229.6	3324.7
25°	2984.3	2985.3	3000.0	3017.7	3023.6	3067.7	3083.4	3105.0	3158.9	3267.8	3325.7
27.5°	2915.6	2909.8	2918.6	2954.9	2985.3	3017.7	3022.6	3096.2	3169.7	3244.3	3295.3
30°	2847.0	2841.1	2847.0	2873.5	2909.8	2931.3	2985.3	3083.4	3152.1	3203.1	3251.2
32.5°	2773.4	2767.5	2781.2	2800.9	2864.6	2867.6	2974.5	3066.7	3120.7	3158.0	3149.1
35°	2694.9	2687.1	2699.8	2730.2	2789.1	2810.7	2922.5	2991.2	3052.0	3069.7	3028.5
37.5°	2600.7	2587.0	2602.7	2644.9	2706.7	2769.5	2862.7	2942.1	2974.5	2927.4	2878.4
40°	2502.6	2492.8	2520.3	2541.9	2614.5	2701.8	2808.7	2864.6	2844.0	2790.1	2736.1
42.5°	2415.3	2394.7	2419.2	2460.4	2542.9	2641.9	2728.3	2759.7	2710.6	2631.1	2568.4
45°	2308.4	2283.9	2313.3	2368.2	2456.5	2569.3	2637.0	2626.2	2542.9	2474.2	2387.8
47.5°	2196.5	2167.1	2196.5	2262.3	2361.4	2481.0	2530.1	2481.0	2376.1	2289.7	2220.1
50°	2086.7	2052.3	2080.8	2179.9	2277.0	2369.2	2368.2	2273.1	2210.3	2116.1	2055.3
52.5°	1977.8	1928.7	1957.2	2065.1	2162.2	2267.2	2189.7	2101.4	2025.8	1943.4	1923.8
55°	1843.4	1790.4	1828.7	1985.6	2060.2	2122.0	1998.4	1920.9	1846.3	1805.1	1780.6
57.5°	1715.8	1658.0	1691.3	1876.7	1931.7	1947.4	1833.6	1723.7	1679.5	1665.8	1630.5
60°	1584.4	1518.6	1550.0	1763.9	1802.2	1738.4	1626.6	1541.2	1532.4	1504.9	1477.4
62.5°	1458.8	1386.2	1405.8	1623.6	1641.3	1525.5	1422.5	1399.9	1378.4	1350.9	1336.2
65°	1314.6	1239.1	1266.5	1474.5	1457.8	1308.7	1250.8	1245.9	1217.5	1194.9	1216.5
67.5°	1182.2	1092.9	1131.1	1311.6	1236.1	1114.5	1090.9	1079.1	1056.6	1069.3	842.7
70°	1037.0	939.8	991.8	1136.0	1024.2	943.8	934.9	917.3	918.3	729.9	615.1
72.5°	875.1	790.7	866.3	943.8	810.3	786.8	774.0	772.1	623.0	506.2	477.8
75°	732.8	647.5	728.9	758.3	645.5	629.8	628.8	520.0	409.1	390.5	381.6
77.5°	571.9	506.2	583.7	539.6	495.4	477.8	428.7	321.8	308.0	295.3	110.9
80°	385.5	390.5	435.6	371.8	353.2	301.2	237.4	227.6	196.2	78.5	61.8
82.5°	234.5	294.3	277.6	232.5	227.6	163.8	150.1	76.5	56.9	45.1	39.2
85°	121.6	149.1	143.2	126.6	94.2	84.4	47.1	36.3	29.4	22.6	18.6
87.5°	41.2	54.9	53.0	42.2	32.4	25.5	16.7	13.7	9.8	7.8	6.9
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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3294.3	3294.3	3292.4	3294.3	3295.3	3293.3	3293.3	3295.3	3296.3	3297.3	3302.2
5°	3299.2	3301.2	3304.1	3310.0	3311.0	3322.8	3327.7	3330.6	3333.6	3334.6	3327.7
7.5°	3310.0	3316.9	3322.8	3321.8	3314.9	3296.3	3290.4	3285.5	3294.3	3316.9	3343.4
10°	3319.8	3288.4	3229.6	3310.0	3285.5	3308.1	3374.8	3389.5	3434.6	3498.4	3517.0
12.5°	3252.1	3338.5	3357.1	3266.9	3433.6	3371.8	3445.4	3510.2	3528.8	3593.5	3554.3
15°	3324.7	3366.9	3395.4	3485.6	3475.8	3528.8	3549.4	3536.6	3539.6	3556.3	3600.4
17.5°	3323.8	3408.1	3426.8	3487.6	3528.8	3529.8	3523.9	3518.0	3533.7	3546.5	3520.0
20°	3380.7	3408.1	3444.4	3469.0	3476.8	3486.6	3505.3	3490.5	3461.1	3432.7	3420.9
22.5°	3352.2	3414.0	3445.4	3449.3	3444.4	3414.0	3386.5	3345.3	3331.6	3316.9	3321.8
25°	3358.1	3386.5	3382.6	3366.9	3346.3	3289.4	3275.7	3258.0	3231.5	3167.8	3109.9
27.5°	3315.9	3301.2	3283.5	3245.3	3208.0	3177.6	3143.2	3086.3	3039.3	2970.6	2945.1
30°	3245.3	3186.4	3143.2	3120.7	3084.4	3033.4	2981.4	2911.7	2851.9	2838.1	2825.4
32.5°	3109.9	3052.0	3016.7	2961.8	2900.0	2839.1	2779.3	2751.8	2739.1	2741.0	2729.2
35°	2971.6	2920.6	2867.6	2785.2	2739.1	2678.2	2656.7	2650.8	2639.0	2626.2	2612.5
37.5°	2824.4	2764.6	2685.1	2636.1	2589.9	2565.4	2554.6	2545.8	2525.2	2502.6	2486.9
40°	2682.2	2574.2	2530.1	2482.0	2468.3	2457.5	2441.8	2420.2	2391.8	2387.8	2381.0
42.5°	2491.8	2414.3	2376.1	2366.3	2349.6	2330.9	2317.2	2293.7	2281.9	2289.7	2295.6
45°	2311.3	2272.1	2259.3	2247.6	2216.2	2189.7	2180.8	2173.0	2182.8	2226.0	2123.0
47.5°	2165.2	2149.5	2133.8	2114.1	2084.7	2065.1	2073.9	2081.8	2090.6	1773.7	1618.7
50°	2038.6	2017.0	1992.5	1970.9	1953.2	1951.3	1997.4	1859.1	1556.9	1549.1	1392.1
52.5°	1900.3	1867.9	1853.2	1840.4	1848.3	1877.7	1554.0	1442.1	1383.3	1201.8	1121.3
55°	1751.2	1722.7	1722.7	1734.5	1692.3	1371.5	1354.8	1171.4	1060.5	1029.1	1016.4
57.5°	1602.0	1599.1	1615.8	1477.4	1244.9	1193.9	1003.6	963.4	945.7	941.8	921.2
60°	1465.7	1493.1	1249.8	1149.8	999.7	901.6	874.1	869.2	850.6	843.7	825.1
62.5°	1356.8	1125.3	1047.7	855.5	805.4	792.7	778.0	771.1	754.4	666.1	195.2
65°	980.1	926.1	751.5	719.1	715.2	696.5	690.7	621.0	146.2	98.1	83.4
67.5°	739.7	656.3	633.8	627.9	609.2	571.9	169.7	97.1	83.4	72.6	63.8
70°	568.0	553.3	536.6	522.9	154.0	96.1	83.4	70.6	60.8	54.0	49.1
72.5°	465.0	455.2	264.9	101.0	82.4	69.7	61.8	54.0	47.1	43.2	39.2
75°	364.0	101.0	83.4	69.7	59.8	51.0	45.1	40.2	36.3	33.4	30.4
77.5°	82.4	66.7	56.9	48.1	43.2	38.3	34.3	29.4	26.5	23.5	19.6
80°	51.0	44.1	37.3	34.3	29.4	24.5	21.6	19.6	15.7	14.7	12.8
82.5°	33.4	26.5	23.5	19.6	15.7	14.7	12.8	9.8	8.8	7.8	6.9
85°	14.7	12.8	10.8	8.8	6.9	5.9	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	2.0	2.0
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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3304.1	3321.8	3338.5	3333.6	3315.9	3288.4	3280.6	3269.8	3277.7	3294.3	3301.2
5°	3327.7	3317.9	3353.2	3405.2	3489.6	3497.4	3556.3	3570.0	3617.1	3646.5	3645.5
7.5°	3361.0	3500.3	3558.2	3621.0	3649.5	3642.6	3651.4	3644.6	3633.8	3628.9	3623.0
10°	3530.8	3636.7	3658.3	3658.3	3614.1	3554.3	3528.8	3484.6	3396.4	3398.3	3383.6
12.5°	3629.8	3667.1	3616.1	3572.9	3395.4	3326.7	3252.1	3216.8	3196.2	3164.8	3176.6
15°	3577.8	3524.9	3494.5	3355.2	3246.3	3122.6	3124.6	3103.0	3080.5	3082.4	3067.7
17.5°	3501.3	3459.1	3243.3	3147.2	3094.2	3046.1	3037.3	3008.8	2994.1	2989.2	2988.2
20°	3396.4	3244.3	3083.4	3059.9	2996.1	2941.2	2932.3	2941.2	2986.3	2905.8	2633.1
22.5°	3273.7	3055.0	3007.9	2941.2	2898.0	2876.4	2930.4	2685.1	2314.3	2359.4	2311.3
25°	3065.7	2970.6	2890.1	2839.1	2834.2	2701.8	2251.5	2204.4	1966.0	1838.5	1695.2
27.5°	2913.7	2872.5	2788.1	2779.3	2715.5	2209.3	1974.8	1715.8	1620.7	1606.0	1574.6
30°	2821.5	2762.6	2711.6	2488.9	2167.1	1778.6	1584.4	1548.1	1531.4	1513.7	1486.3
32.5°	2710.6	2654.7	2679.2	2092.6	1727.6	1531.4	1492.2	1465.7	1435.3	1423.5	1324.4
35°	2597.8	2572.3	2093.5	1759.0	1485.3	1438.2	1408.8	1381.3	1098.8	265.9	90.3
37.5°	2477.1	2471.2	1881.6	1459.8	1391.1	1347.0	1263.6	261.0	61.8	42.2	31.4
40°	2382.9	1882.6	1487.3	1368.5	1312.6	1243.0	174.6	43.2	27.5	16.7	10.8
42.5°	2320.2	1693.3	1331.3	1284.2	1162.5	128.5	44.1	18.6	10.8	8.8	6.9
45°	1788.4	1337.2	1244.0	1194.9	147.2	44.1	25.5	8.8	6.9	5.9	3.9
47.5°	1650.1	1214.5	1159.6	261.0	49.1	23.5	17.7	5.9	3.9	3.9	3.9
50°	1249.8	1122.3	923.2	63.8	31.4	16.7	12.8	3.9	3.9	3.9	2.9
52.5°	1095.8	1036.0	99.1	42.2	24.5	12.8	7.8	2.9	2.9	2.9	2.9
55°	1001.6	657.3	58.9	32.4	20.6	11.8	4.9	2.9	2.9	2.9	2.0
57.5°	916.3	88.3	43.2	27.5	18.6	10.8	2.9	2.9	2.9	2.9	2.0
60°	777.0	63.8	35.3	24.5	17.7	9.8	2.9	2.9	2.9	2.9	2.9
62.5°	101.0	50.0	30.4	21.6	12.8	7.8	2.0	2.9	2.9	2.9	2.9
65°	73.6	39.2	27.5	14.7	7.8	2.9	2.0	2.9	2.9	2.9	2.9
67.5°	56.9	32.4	20.6	12.8	6.9	2.0	2.0	2.9	2.9	2.9	2.9
70°	45.1	27.5	16.7	10.8	5.9	2.0	2.0	2.9	2.9	2.9	2.9
72.5°	35.3	19.6	11.8	5.9	3.9	2.0	2.0	2.9	2.9	2.9	2.9
75°	26.5	15.7	8.8	4.9	2.0	2.0	2.0	2.9	2.9	2.9	2.9
77.5°	17.7	9.8	6.9	3.9	3.9	3.9	4.9	4.9	2.9	2.9	2.9
80°	11.8	6.9	4.9	4.9	4.9	3.9	4.9	4.9	2.9	4.9	2.9
82.5°	5.9	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°	2.0	2.0	2.0	2.0	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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3292.4	3295.3	3287.5	3329.6	3308.1	3310.0	3318.9	3296.3	3301.2	3285.5	3274.7
5°	3649.5	3655.4	3661.2	3663.2	3667.1	3672.0	3666.1	3663.2	3657.3	3637.7	3617.1
7.5°	3593.5	3586.7	3583.7	3587.7	3594.5	3597.5	3592.6	3599.4	3624.9	3635.7	3642.6
10°	3299.2	3267.8	3289.4	3286.5	3262.0	3344.4	3321.8	3334.6	3343.4	3433.6	3488.6
12.5°	3158.9	3178.6	3141.3	3122.6	3147.2	3163.9	3180.5	3145.2	3194.3	3171.7	3244.3
15°	3041.2	3029.4	3025.5	3026.5	3021.6	3045.1	3051.0	3058.9	3065.7	3096.2	3107.9
17.5°	2988.2	3007.9	3015.7	3021.6	3011.8	3001.0	2990.2	2974.5	2979.4	2971.6	2994.1
20°	2449.7	2383.9	2380.0	2418.3	2376.1	2399.6	2456.5	2837.2	2824.4	2972.5	2922.5
22.5°	2044.5	1982.7	1929.7	1883.6	1949.3	1976.8	2082.7	2202.4	2396.7	2366.3	2577.2
25°	1669.7	1647.2	1633.4	1626.6	1631.5	1629.5	1653.1	1709.0	1797.3	2005.2	2274.0
27.5°	1561.8	1551.0	1546.1	1530.4	1542.2	1538.3	1556.9	1568.7	1595.2	1615.8	1703.1
30°	1476.5	1463.7	1454.9	1438.2	1450.0	1451.0	1456.8	1487.3	1498.0	1515.7	1543.2
32.5°	539.6	317.9	298.2	283.5	310.0	404.2	709.3	1240.0	1414.7	1428.4	1459.8
35°	53.0	44.1	39.2	39.2	40.2	44.1	58.9	155.0	283.5	1095.8	1371.5
37.5°	20.6	17.7	14.7	13.7	14.7	16.7	22.6	29.4	40.2	83.4	371.8
40°	8.8	7.8	6.9	6.9	6.9	6.9	7.8	9.8	14.7	27.5	43.2
42.5°	5.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.9	8.8	17.7
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	2.0	2.9	2.0	2.9	2.9	2.9	2.9
52.5°	2.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9	2.9
55°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9
57.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9	2.9	2.0
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9	2.0
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.9	2.9	2.0	2.9	2.0	2.0	2.9	2.9	2.9	2.0	2.0
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	5.9	5.9	3.9
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.9	5.9	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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3256.1	3255.1	3275.7	3291.4	3285.5	3291.4	3298.3	3299.2	3301.2	3293.3	3290.4
5°	3577.8	3547.4	3488.6	3446.4	3397.3	3308.1	3263.9	3268.8	3269.8	3266.9	3270.8
7.5°	3639.7	3636.7	3616.1	3607.3	3573.9	3510.2	3408.1	3390.5	3347.3	3319.8	3297.3
10°	3484.6	3555.3	3573.9	3605.3	3624.9	3613.2	3526.8	3514.1	3486.6	3455.2	3462.1
12.5°	3316.9	3374.8	3377.7	3548.4	3586.7	3590.6	3557.2	3574.9	3578.8	3508.2	3467.0
15°	3110.9	3138.3	3196.2	3355.2	3470.9	3543.5	3565.1	3574.9	3526.8	3523.9	3507.2
17.5°	3020.6	3038.3	3064.8	3154.0	3329.6	3436.6	3527.8	3520.9	3539.6	3525.9	3483.7
20°	2906.8	2921.5	2968.6	3013.8	3100.1	3242.3	3413.0	3425.8	3450.3	3447.4	3459.1
22.5°	2904.9	2852.9	2860.7	2896.0	2986.3	3113.8	3295.3	3337.5	3353.2	3364.0	3376.7
25°	2304.5	2717.5	2793.0	2815.6	2874.4	2949.0	3162.9	3178.6	3208.0	3256.1	3291.4
27.5°	1996.4	2277.0	2579.2	2736.1	2773.4	2835.2	2962.7	2986.3	3086.3	3098.1	3153.1
30°	1575.5	1792.4	2243.6	2621.3	2683.1	2726.3	2816.6	2863.7	2906.8	2953.9	3011.8
32.5°	1482.3	1516.7	1766.9	2169.1	2649.8	2617.4	2684.1	2712.6	2759.7	2800.9	2843.1
35°	1397.0	1420.5	1473.5	1776.7	2158.3	2528.1	2573.3	2591.9	2618.4	2649.8	2680.2
37.5°	1307.7	1343.0	1379.3	1460.8	1996.4	2457.5	2456.5	2478.1	2493.8	2520.3	2545.8
40°	237.4	1233.2	1292.0	1345.0	1548.1	1960.1	2346.6	2356.5	2367.2	2383.9	2410.4
42.5°	38.3	206.0	1210.6	1261.6	1319.5	1755.1	2296.6	2256.4	2249.5	2261.3	2284.8
45°	19.6	50.0	243.3	1178.2	1230.2	1399.9	1877.7	2186.7	2179.9	2157.3	2162.2
47.5°	14.7	31.4	59.8	407.1	1151.7	1201.8	1732.5	1713.9	1844.4	2094.5	2056.3
50°	12.8	21.6	35.3	83.4	1017.3	1106.6	1334.2	1558.9	1627.5	1636.4	1936.6
52.5°	11.8	14.7	25.5	54.0	213.9	1023.2	1085.0	1163.5	1279.3	1527.5	1521.6
55°	10.8	13.7	21.6	36.3	74.6	922.2	985.9	1000.7	1025.2	1143.9	1300.9
57.5°	5.9	12.8	20.6	31.4	55.9	168.7	894.7	906.5	926.1	931.0	986.9
60°	2.9	11.8	18.6	27.5	41.2	78.5	804.5	818.2	830.0	831.9	849.6
62.5°	2.0	10.8	15.7	25.5	34.3	55.9	190.3	388.5	738.7	738.7	759.3
65°	2.0	7.8	9.8	16.7	31.4	46.1	80.4	93.2	181.5	446.4	666.1
67.5°	2.0	2.9	8.8	13.7	23.5	35.3	58.9	68.7	82.4	94.2	174.6
70°	2.0	2.0	7.8	8.8	14.7	26.5	42.2	48.1	55.9	63.8	73.6
72.5°	2.0	2.0	6.9	6.9	9.8	17.7	32.4	35.3	40.2	45.1	52.0
75°	4.9	3.9	5.9	5.9	6.9	13.7	24.5	27.5	29.4	33.4	38.3
77.5°	4.9	4.9	4.9	4.9	4.9	8.8	15.7	17.7	20.6	22.6	26.5
80°	3.9	3.9	3.9	4.9	4.9	5.9	9.8	10.8	11.8	14.7	15.7
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9	6.9	8.8
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	2.0	2.0	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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3289.4	3283.5	3278.6	3281.6	3272.7	3268.8	3271.8	3272.7	3274.7	3279.6	3280.6
5°	3280.6	3278.6	3287.5	3292.4	3290.4	3292.4	3292.4	3288.4	3282.6	3286.5	3277.7
7.5°	3274.7	3262.0	3252.1	3254.1	3244.3	3256.1	3266.9	3282.6	3287.5	3287.5	3277.7
10°	3375.8	3362.0	3307.1	3269.8	3245.3	3223.7	3274.7	3222.7	3247.2	3154.0	3261.0
12.5°	3459.1	3477.8	3453.3	3351.2	3333.6	3268.8	3306.1	3242.3	3223.7	3116.8	3151.1
15°	3492.5	3457.2	3449.3	3420.9	3382.6	3364.0	3263.9	3253.1	3222.7	3234.5	3189.4
17.5°	3463.1	3480.7	3457.2	3438.5	3399.3	3355.2	3295.3	3242.3	3200.1	3106.0	3185.4
20°	3434.6	3458.2	3387.5	3399.3	3403.2	3352.2	3320.8	3276.7	3223.7	3135.4	3066.7
22.5°	3387.5	3370.8	3376.7	3359.1	3344.4	3351.2	3308.1	3277.7	3188.4	3148.2	3055.0
25°	3311.0	3305.1	3320.8	3318.9	3283.5	3271.8	3250.2	3217.8	3182.5	3117.7	3041.2
27.5°	3186.4	3216.8	3244.3	3257.0	3238.4	3207.0	3195.2	3176.6	3152.1	3086.3	3029.4
30°	3055.0	3089.3	3120.7	3148.2	3164.8	3151.1	3140.3	3129.5	3092.2	3049.1	2985.3
32.5°	2904.9	2950.0	2993.1	3026.5	3062.8	3073.6	3065.7	3056.9	3025.5	2986.3	2935.3
35°	2731.2	2793.0	2855.8	2915.6	2931.3	2956.9	2982.4	2967.6	2951.0	2911.7	2864.6
37.5°	2584.1	2628.2	2673.3	2748.9	2803.8	2836.2	2881.3	2887.2	2858.7	2840.1	2778.3
40°	2432.0	2472.2	2537.9	2582.1	2657.6	2694.9	2743.0	2764.6	2757.7	2746.9	2693.0
42.5°	2312.3	2331.9	2375.1	2414.3	2488.9	2565.4	2607.6	2631.1	2655.7	2646.8	2619.4
45°	2184.8	2202.4	2217.1	2251.5	2324.1	2391.8	2443.8	2479.1	2523.2	2543.8	2510.5
47.5°	2058.2	2063.1	2080.8	2109.2	2152.4	2204.4	2291.7	2344.7	2385.9	2426.1	2404.5
50°	1961.1	1943.4	1946.4	1964.0	1999.4	2050.4	2113.2	2187.7	2234.8	2283.9	2288.8
52.5°	1713.9	1857.1	1822.8	1832.6	1851.2	1875.7	1941.5	2015.1	2072.9	2115.1	2157.3
55°	1438.2	1466.7	1742.3	1703.1	1714.9	1736.4	1766.9	1840.4	1896.3	1955.2	2014.1
57.5°	1115.4	1327.3	1338.1	1593.2	1587.3	1589.3	1614.8	1657.0	1712.9	1786.5	1836.5
60°	867.2	956.5	1130.2	1218.5	1442.1	1450.0	1464.7	1489.2	1537.3	1606.9	1686.4
62.5°	765.2	777.0	838.8	971.2	1116.4	1292.0	1323.4	1327.3	1348.9	1418.6	1510.8
65°	672.0	679.9	698.5	712.2	833.9	1003.6	1154.7	1179.2	1192.9	1234.1	1312.6
67.5°	463.1	585.7	602.4	612.2	623.9	702.4	889.8	1014.4	1030.1	1066.4	1135.1
70°	89.3	185.4	507.2	518.0	523.9	541.5	571.9	770.1	874.1	908.4	939.8
72.5°	60.8	71.6	86.3	204.1	431.7	441.5	448.3	473.8	649.4	749.5	766.2
75°	44.1	49.1	57.9	71.6	88.3	287.4	356.1	368.9	381.6	526.8	611.2
77.5°	31.4	35.3	39.2	46.1	54.0	69.7	100.1	275.7	288.4	295.3	416.9
80°	17.7	21.6	26.5	30.4	34.3	39.2	51.0	63.8	142.3	208.0	218.8
82.5°	9.8	11.8	13.7	16.7	18.6	23.5	28.5	34.3	45.1	66.7	141.3
85°	4.9	4.9	4.9	6.9	7.8	10.8	12.8	14.7	20.6	28.5	39.2
87.5°	2.9	2.9	3.9	3.9	3.9	4.9	4.9	4.9	5.9	8.8	12.8
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: P1213494

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3268.8	3268.8	3268.8	3268.8	3268.8
2.5°	3281.6	3278.6	3278.6	3290.4	3287.5
5°	3275.7	3272.7	3271.8	3284.5	3278.6
7.5°	3270.8	3260.0	3257.0	3268.8	3263.9
10°	3251.2	3243.3	3248.2	3244.3	3242.3
12.5°	3217.8	3212.9	3192.3	3194.3	3210.9
15°	3158.0	3177.6	3142.3	3173.7	3180.5
17.5°	3048.1	3092.2	3126.6	3145.2	3148.2
20°	3097.1	3111.9	3094.2	3095.2	3106.9
22.5°	3033.4	3040.2	3045.1	3039.3	3064.8
25°	2931.3	2904.9	2961.8	2973.5	3014.7
27.5°	2900.0	2878.4	2904.9	2902.9	2937.2
30°	2874.4	2804.8	2816.6	2835.2	2877.4
32.5°	2838.1	2728.3	2716.5	2757.7	2804.8
35°	2774.4	2670.4	2642.9	2669.4	2740.0
37.5°	2720.4	2589.9	2535.0	2570.3	2662.5
40°	2640.0	2527.2	2441.8	2473.2	2582.1
42.5°	2543.8	2473.2	2341.7	2363.3	2487.9
45°	2446.7	2383.9	2244.6	2255.4	2403.5
47.5°	2347.6	2289.7	2143.6	2145.5	2295.6
50°	2250.5	2174.0	2053.3	2019.0	2180.8
52.5°	2123.9	2053.3	1962.1	1906.2	2072.0
55°	2004.3	1924.8	1858.1	1771.8	1948.3
57.5°	1887.5	1799.2	1754.1	1643.2	1808.1
60°	1727.6	1685.4	1618.7	1512.8	1681.5
62.5°	1563.8	1550.0	1482.3	1372.5	1525.5
65°	1372.5	1404.8	1335.2	1241.0	1363.6
67.5°	1192.0	1249.8	1173.3	1115.4	1207.7
70°	999.7	1066.4	1023.2	1002.6	1041.9
72.5°	810.3	875.1	879.0	864.3	877.0
75°	625.9	697.5	736.8	714.2	717.1
77.5°	474.8	509.2	552.3	570.0	566.1
80°	293.3	353.2	388.5	424.8	412.0
82.5°	148.1	198.2	241.3	280.6	261.9
85°	61.8	79.5	110.9	146.2	140.3
87.5°	18.6	31.4	33.4	47.1	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)