

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-LD5-62HL-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-LD5-62HL-RM-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

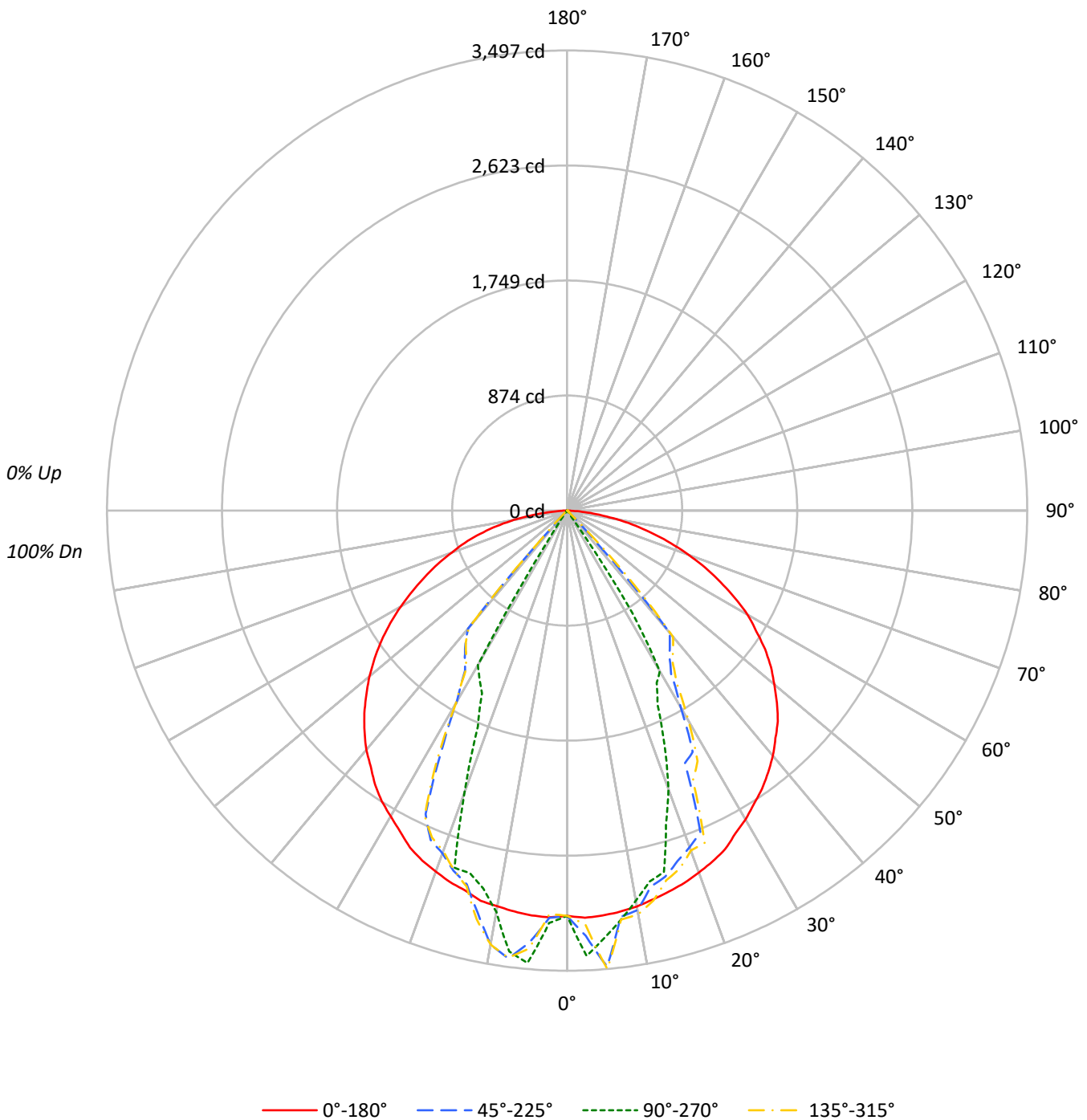
Lumens per Lamp: N/A
Luminaire Lumens: 4379.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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: 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°	24886	24886	24886	24886
5°	24988	25595	24981	27106
10°	24929	23161	24913	23830
15°	24861	21619	24799	21674
20°	24889	17028	24818	17237
25°	24962	12322	24839	11628
30°	24848	10810	24584	10392
35°	24921	238	24556	289
40°	25007	52	24408	52
45°	25094	31	24152	23
50°	24903	24	23761	24
55°	24757	17	23235	17
60°	24289	18	22390	18
65°	23022	30	21383	19
70°	21359	33	20332	33
75°	18891	36	19201	36
80°	15346	42	16223	42
85°	9032	49	9216	49



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	7.1
10°-20°	842.8	19.2
20°-30°	1072.4	24.5
30°-40°	905.9	20.7
40°-50°	592.3	13.5
50°-60°	373.2	8.5
60°-70°	198.6	4.5
70°-80°	72.4	1.7
80°-90°	12.5	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°	2224.2	50.8
0°-40°	3130.1	71.5
0°-60°	4095.5	93.5
0°-90°	4379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4379.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3080	3080	3080	3080	3080	
5°	3089	3259	3088	3451	3089	294
15°	2996	2844	2989	2851	2996	847
25°	2840	1624	2826	1532	2840	1306
35°	2582	30	2544	37	2582	1615
45°	2264	4	2179	3	2264	1741
55°	1836	2	1723	2	1836	1636
65°	1285	3	1193	2	1285	1272
75°	676	3	687	3	676	717
85°	132	3	135	3	132	167
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°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3097.2	3099.0	3100.0	3101.8	3104.6	3105.5	3107.4	3105.5	3105.5	3105.5	3105.5
5°	3088.9	3092.6	3095.4	3099.0	3105.5	3106.4	3113.8	3114.8	3118.5	3125.9	3131.4
7.5°	3075.0	3078.7	3084.3	3093.5	3102.7	3112.9	3125.9	3139.7	3159.1	3177.6	3200.7
10°	3054.7	3059.3	3065.8	3074.1	3119.4	3125.9	3154.5	3194.2	3205.3	3263.6	3307.0
12.5°	3025.1	3040.8	3057.5	3064.9	3108.3	3176.7	3272.8	3253.4	3232.1	3422.5	3419.8
15°	2996.5	3017.7	3009.4	3069.5	3109.2	3228.4	3187.8	3274.7	3433.6	3394.8	3396.7
17.5°	2966.0	2970.6	3016.8	3066.7	3137.9	3198.9	3248.8	3368.0	3399.4	3402.2	3368.0
20°	2927.1	2949.3	3016.8	3062.1	3182.2	3210.9	3319.0	3380.0	3367.1	3335.7	3277.4
22.5°	2887.4	2954.9	3023.3	3087.0	3171.1	3247.9	3301.5	3330.1	3262.6	3138.8	3072.2
25°	2840.3	2880.0	2969.7	3063.0	3168.4	3212.7	3244.2	3197.9	3110.1	2999.2	2887.4
27.5°	2767.2	2831.0	2945.6	3051.0	3146.2	3199.8	3149.0	3038.0	2896.6	2823.6	2772.8
30°	2710.9	2794.0	2888.3	2990.0	3088.9	3120.3	2990.9	2864.3	2767.2	2694.2	2683.1
32.5°	2642.5	2760.8	2850.4	2947.5	3030.7	2989.1	2863.4	2699.8	2619.4	2591.6	2602.7
35°	2581.5	2671.1	2788.5	2883.7	2943.8	2850.4	2651.7	2550.0	2511.2	2526.9	2506.6
37.5°	2508.4	2626.8	2734.9	2817.1	2796.8	2656.3	2488.1	2423.4	2428.0	2415.1	2376.3
40°	2432.7	2545.4	2658.2	2735.8	2664.6	2450.2	2338.4	2324.5	2327.3	2285.7	2230.2
42.5°	2343.9	2446.5	2559.3	2629.5	2476.1	2308.8	2233.0	2234.9	2210.8	2152.6	2123.0
45°	2264.4	2358.7	2476.1	2482.6	2294.0	2154.5	2132.3	2108.2	2054.6	2035.2	2013.0
47.5°	2162.8	2267.2	2364.3	2329.1	2115.6	2028.8	2012.1	1959.4	1932.6	1917.8	1899.4
50°	2054.6	2160.0	2248.7	2148.9	1947.4	1927.1	1872.6	1831.0	1812.5	1796.8	1780.1
52.5°	1952.0	2038.9	2129.5	1957.6	1818.0	1798.6	1736.7	1712.7	1694.2	1676.6	1672.9
55°	1835.6	1912.3	1974.2	1775.5	1694.2	1648.9	1604.5	1587.9	1570.3	1562.0	1575.9
57.5°	1703.4	1790.3	1781.1	1596.2	1560.2	1494.5	1477.9	1466.8	1453.9	1459.4	1343.9
60°	1584.2	1650.7	1605.4	1465.0	1404.0	1359.6	1344.8	1337.4	1344.8	1232.0	1083.2
62.5°	1437.2	1512.1	1420.6	1311.5	1246.8	1225.6	1212.6	1222.8	1114.7	990.8	954.8
65°	1284.7	1366.1	1231.1	1147.0	1106.3	1087.9	1086.9	1001.0	894.7	846.6	846.6
67.5°	1137.8	1221.9	1048.1	977.9	962.2	964.0	910.4	780.1	750.5	718.2	624.8
70°	981.6	1055.5	866.0	823.5	814.3	807.8	677.5	642.4	607.2	521.3	513.9
72.5°	826.3	862.3	696.0	685.8	684.0	568.4	542.5	482.5	441.8	431.6	427.0
75°	675.6	664.5	549.9	559.2	471.4	430.7	389.1	354.0	348.4	344.7	86.0
77.5°	533.3	477.8	433.5	377.1	337.4	286.5	278.2	272.7	179.3	64.7	52.7
80°	388.2	309.6	288.4	244.9	208.9	200.6	205.2	62.8	49.9	41.6	36.0
82.5°	246.8	197.8	161.7	141.4	137.7	60.1	44.4	36.0	31.4	26.8	22.2
85°	132.2	87.8	81.3	68.4	40.7	27.7	23.1	17.6	14.8	12.0	11.1
87.5°	41.6	35.1	28.7	23.1	13.9	9.2	7.4	6.5	5.5	4.6	4.6
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°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3103.7	3105.5	3104.6	3107.4	3107.4	3111.1	3113.8	3116.6	3122.2	3124.9	3146.2
5°	3143.4	3148.0	3161.9	3174.8	3190.6	3195.2	3222.0	3228.4	3259.9	3263.6	3367.1
7.5°	3232.1	3249.7	3283.0	3316.3	3349.5	3370.8	3407.8	3430.9	3455.8	3478.0	3560.3
10°	3339.4	3368.9	3401.3	3434.6	3454.0	3494.6	3516.8	3520.5	3514.0	3478.0	3344.9
12.5°	3444.7	3474.3	3460.4	3466.9	3490.0	3417.9	3428.1	3376.3	3412.4	3234.0	3101.8
15°	3429.9	3428.1	3393.9	3283.0	3301.5	3163.7	3108.3	3065.8	3100.0	3081.5	3061.2
17.5°	3385.6	3301.5	3242.3	3109.2	3052.8	3014.0	3014.9	3015.9	2999.2	3016.8	2965.0
20°	3197.9	3103.7	3015.9	2968.7	2952.1	2924.4	2938.2	2924.4	2925.3	2930.8	2851.3
22.5°	2948.4	2919.7	2868.9	2883.7	2878.2	2903.1	2884.6	2856.0	2865.2	2823.6	2763.5
25°	2847.7	2814.4	2812.5	2818.1	2809.8	2798.7	2782.0	2738.6	2735.8	2722.9	2695.1
27.5°	2746.0	2747.8	2753.4	2736.7	2707.2	2685.0	2660.0	2638.8	2647.1	2632.3	2594.4
30°	2675.7	2674.8	2641.5	2626.8	2572.2	2573.1	2566.7	2553.7	2545.4	2546.3	2522.3
32.5°	2575.9	2547.3	2509.4	2490.9	2486.3	2469.6	2456.7	2459.5	2465.9	2442.8	2467.8
35°	2473.3	2414.2	2408.6	2392.9	2378.1	2367.0	2371.7	2353.2	2352.2	2349.5	2146.1
37.5°	2335.6	2307.0	2304.2	2287.5	2277.4	2274.6	2257.0	2259.8	2268.1	2282.9	1830.0
40°	2221.9	2196.0	2189.6	2188.7	2166.5	2164.6	2169.2	2186.8	2198.8	2106.4	1744.1
42.5°	2099.9	2101.8	2081.4	2068.5	2071.3	2079.6	2101.8	2040.8	1768.1	1684.9	1594.4
45°	1995.5	1986.2	1975.1	1971.5	1995.5	1978.8	1734.8	1600.8	1568.5	1564.8	1310.6
47.5°	1886.4	1883.6	1879.0	1881.8	1745.0	1555.5	1500.1	1482.5	1488.1	1484.4	1125.8
50°	1776.4	1780.1	1780.1	1554.6	1427.1	1395.6	1400.3	1416.0	1318.0	1230.2	1049.0
52.5°	1681.2	1652.6	1416.0	1334.6	1306.0	1319.8	1286.6	1163.6	1074.9	1023.2	970.5
55°	1504.7	1294.0	1241.3	1228.3	1238.5	1115.6	1039.8	960.3	937.2	931.7	901.2
57.5°	1184.0	1141.5	1146.1	1094.3	976.9	907.6	877.1	866.0	855.9	848.5	73.9
60°	1047.2	1059.2	969.6	858.6	811.5	802.3	794.9	784.7	782.8	769.9	47.1
62.5°	958.5	842.9	765.3	737.6	726.5	723.7	709.8	705.2	598.9	82.3	35.1
65°	722.8	675.6	660.8	654.4	642.4	642.4	533.3	84.1	68.4	59.2	31.4
67.5°	589.7	586.0	578.6	570.3	388.2	81.3	71.2	61.9	53.6	47.1	27.7
70°	499.1	497.3	452.9	83.2	69.3	61.0	53.6	48.1	44.4	39.7	25.0
72.5°	409.4	83.2	70.2	61.0	52.7	48.1	43.4	38.8	35.1	32.3	20.3
75°	63.8	56.4	49.9	45.3	41.6	37.0	33.3	30.5	29.6	25.9	13.9
77.5°	46.2	39.7	36.0	32.3	28.7	25.9	22.2	19.4	17.6	14.8	10.2
80°	32.3	28.7	25.9	21.3	18.5	15.7	13.9	12.0	11.1	9.2	4.6
82.5°	18.5	15.7	13.9	11.1	10.2	8.3	7.4	6.5	6.5	4.6	4.6
85°	8.3	8.3	6.5	5.5	4.6	4.6	4.6	3.7	3.7	2.8	2.8
87.5°	3.7	3.7	3.7	3.7	3.7	2.8	2.8	2.8	2.8	2.8	1.8
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°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3175.8	3187.8	3210.9	3234.9	3208.1	3304.2	3296.8	3329.2	3346.8	3355.1	3374.5
5°	3458.6	3512.2	3529.8	3477.1	3446.6	3415.1	3344.0	3290.4	3296.8	3279.3	3215.5
7.5°	3453.0	3338.4	3184.1	3113.8	3108.3	3100.0	3122.2	3135.1	3136.9	3136.0	3134.2
10°	3161.0	3101.8	3091.7	3082.4	3086.1	3051.9	3036.2	2991.8	3015.9	3002.9	3007.5
12.5°	3072.2	3058.4	3003.9	2928.1	2973.4	2939.2	2919.7	2932.7	2917.9	2904.0	2899.4
15°	3019.6	2929.9	2899.4	2880.9	2868.0	2860.6	2867.1	2852.3	2847.7	2844.9	2851.3
17.5°	2910.5	2874.5	2841.2	2792.2	2793.1	2790.3	2808.8	2836.6	2838.4	2696.1	2567.6
20°	2824.5	2795.0	2752.5	2722.0	2763.5	2689.6	2404.0	2268.1	2246.9	2246.9	2250.6
22.5°	2756.1	2690.5	2693.3	2645.2	2256.1	2176.6	2178.5	2186.8	2148.9	2019.5	2005.6
25°	2662.8	2652.6	2450.2	2117.5	2120.3	2058.3	1963.1	1829.1	1684.0	1684.0	1660.0
27.5°	2592.6	2377.2	2081.4	2067.6	1859.6	1728.4	1647.0	1524.1	1507.5	1491.8	1493.6
30°	2532.5	2011.2	2018.6	1728.4	1574.9	1465.9	1459.4	1439.1	1428.9	1426.1	1416.0
32.5°	2002.0	1958.5	1689.6	1471.4	1411.3	1393.8	1385.5	1362.4	1361.4	1343.9	1221.9
35°	1877.2	1719.1	1414.1	1355.0	1337.4	1320.8	1306.9	877.1	103.5	41.6	36.0
37.5°	1734.8	1436.3	1307.8	1281.0	1264.4	934.4	93.4	32.3	23.1	16.6	14.8
40°	1470.5	1282.9	1242.2	1212.6	500.0	32.3	20.3	15.7	9.2	8.3	7.4
42.5°	1240.4	1208.9	1165.5	354.9	37.0	15.7	10.2	7.4	6.5	6.5	5.5
45°	1160.9	1133.1	469.5	35.1	23.1	7.4	6.5	6.5	5.5	3.7	3.7
47.5°	1086.9	956.6	42.5	22.2	14.8	6.5	5.5	3.7	3.7	3.7	2.8
50°	1008.4	52.7	29.6	16.6	9.2	3.7	3.7	3.7	3.7	2.8	2.8
52.5°	188.5	37.0	24.0	14.8	4.6	3.7	3.7	3.7	2.8	2.8	2.8
55°	44.4	29.6	22.2	12.9	3.7	3.7	3.7	2.8	2.8	2.8	1.8
57.5°	33.3	22.2	17.6	12.0	3.7	2.8	2.8	2.8	2.8	2.8	1.8
60°	27.7	15.7	13.9	11.1	2.8	2.8	2.8	2.8	2.8	2.8	1.8
62.5°	19.4	12.9	10.2	8.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8
65°	15.7	10.2	8.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	13.9	8.3	5.5	1.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
70°	11.1	2.8	2.8	1.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	9.2	2.8	1.8	1.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	9.2	4.6	1.8	1.8	2.8	2.8	3.7	3.7	2.8	2.8	2.8
77.5°	6.5	4.6	1.8	1.8	2.8	2.8	3.7	3.7	2.8	2.8	2.8
80°	3.7	4.6	1.8	2.8	2.8	5.5	6.5	3.7	2.8	2.8	2.8
82.5°	3.7	4.6	5.5	5.5	2.8	4.6	5.5	4.6	3.7	2.8	2.8
85°	3.7	2.8	3.7	4.6	2.8	4.6	4.6	3.7	3.7	2.8	2.8
87.5°	1.8	2.8	2.8	3.7	3.7	3.7	4.6	3.7	3.7	3.7	2.8
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-LD5-62HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3383.7	3387.4	3329.2	3308.9	3326.4	3322.7	3307.0	3248.8	3242.3	3203.5	3147.1
5°	3234.0	3258.9	3228.4	3281.1	3256.2	3281.1	3356.9	3392.0	3449.3	3484.5	3497.4
7.5°	3129.6	3135.1	3135.1	3139.7	3144.3	3145.3	3139.7	3136.0	3120.3	3100.9	3136.0
10°	3002.9	3009.4	3020.5	3018.6	3017.7	3037.1	3041.7	3081.5	3079.6	3087.0	3113.8
12.5°	2937.3	2887.4	2932.7	2920.7	2937.3	2911.4	2959.5	2951.2	2953.9	2976.1	3033.4
15°	2828.2	2844.0	2855.0	2855.0	2861.5	2856.0	2850.4	2888.3	2911.4	2912.3	2908.7
17.5°	2618.4	2499.2	2621.2	2589.8	2840.3	2846.7	2825.5	2807.9	2807.9	2821.8	2851.3
20°	2247.8	2250.6	2251.5	2263.5	2278.3	2277.4	2278.3	2642.5	2815.3	2775.6	2748.8
22.5°	1970.5	1936.3	2000.1	1995.5	2075.0	2162.8	2246.9	2238.6	2244.1	2501.1	2732.1
25°	1579.6	1623.9	1587.9	1603.6	1693.2	1797.7	1862.4	2031.5	2215.5	2202.5	2262.6
27.5°	1487.1	1475.1	1491.8	1491.8	1503.8	1517.6	1553.7	1648.9	1812.5	1984.4	2147.1
30°	1399.3	1409.5	1411.3	1428.0	1437.2	1446.5	1452.0	1488.1	1525.0	1644.3	1844.8
32.5°	1050.9	921.5	1212.6	1291.2	1357.7	1373.5	1384.5	1399.3	1426.1	1443.7	1544.4
35°	30.5	30.5	32.3	37.0	47.1	317.9	1210.8	1334.6	1352.2	1374.4	1392.9
37.5°	14.8	11.1	12.9	13.9	16.6	23.1	33.3	103.5	1152.6	1303.2	1323.5
40°	6.5	6.5	6.5	6.5	7.4	9.2	13.9	23.1	35.1	927.0	1250.5
42.5°	5.5	5.5	5.5	5.5	5.5	5.5	6.5	8.3	16.6	39.7	656.2
45°	3.7	3.7	2.8	3.7	3.7	4.6	5.5	5.5	7.4	25.0	45.3
47.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.6	5.5	16.6	24.0
50°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	12.9	16.6
52.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5	14.8
55°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8	3.7	12.9
57.5°	1.8	1.8	1.8	1.8	1.8	2.8	1.8	1.8	2.8	2.8	12.0
60°	1.8	1.8	1.8	1.8	1.8	2.8	2.8	2.8	2.8	2.8	11.1
62.5°	2.8	2.8	1.8	2.8	1.8	1.8	2.8	2.8	2.8	2.8	7.4
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.8	2.8
67.5°	2.8	2.8	2.8	2.8	1.8	2.8	1.8	2.8	2.8	1.8	1.8
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.8	1.8	1.8	1.8
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.8	1.8	1.8	1.8
75°	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7	1.8	1.8	1.8
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.6	5.5	4.6	4.6	1.8
80°	2.8	2.8	2.8	2.8	2.8	2.8	4.6	4.6	4.6	4.6	6.5
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7	3.7	3.7	4.6
85°	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7	3.7	2.8	3.7
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7	2.8	2.8	2.8
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-LD5-62HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3151.7	3120.3	3110.1	3088.9	3087.0	3088.9	3084.3	3077.8	3081.5	3075.0	3069.5
5°	3504.8	3420.7	3366.2	3293.1	3192.4	3170.2	3164.7	3133.2	3122.2	3118.5	3103.7
7.5°	3219.2	3372.6	3465.1	3496.5	3378.2	3350.4	3318.1	3292.2	3267.3	3220.1	3191.5
10°	3092.6	3100.0	3188.7	3292.2	3460.4	3483.5	3501.1	3444.7	3429.0	3308.9	3283.0
12.5°	3063.0	3063.9	3074.1	3136.9	3269.1	3283.9	3345.8	3379.1	3419.8	3442.9	3424.4
15°	2928.1	3002.9	3058.4	3063.9	3075.9	3101.8	3120.3	3235.8	3284.8	3416.1	3408.7
17.5°	2865.2	2889.2	2969.7	3035.3	3024.2	3014.9	3029.7	3045.4	3092.6	3223.8	3222.0
20°	2760.8	2837.5	2880.9	2949.3	3011.2	3014.0	2997.4	2988.1	2969.7	2990.9	3010.3
22.5°	2716.4	2728.4	2809.8	2857.8	2928.1	2953.0	2956.7	2957.6	2947.5	2936.4	2930.8
25°	2711.8	2673.9	2715.5	2775.6	2827.3	2854.1	2884.6	2894.8	2891.1	2891.1	2885.5
27.5°	2219.2	2661.9	2639.7	2679.4	2742.3	2760.8	2776.5	2807.9	2827.3	2841.2	2847.7
30°	2113.8	2193.3	2580.5	2586.1	2649.9	2648.0	2665.6	2691.5	2716.4	2748.8	2757.1
32.5°	1869.8	2064.8	2362.4	2492.7	2559.3	2565.8	2575.0	2582.4	2605.5	2641.5	2673.0
35°	1498.2	1880.9	2024.1	2448.4	2460.4	2473.3	2478.9	2496.4	2503.8	2518.6	2546.3
37.5°	1355.9	1554.6	1941.9	2117.5	2346.7	2357.8	2387.4	2394.8	2406.8	2418.8	2440.1
40°	1273.6	1328.2	1616.5	1891.0	2255.2	2262.6	2272.8	2291.2	2292.2	2306.0	2325.4
42.5°	1208.0	1243.1	1327.2	1806.0	2190.5	2189.6	2165.5	2177.6	2183.1	2197.9	2224.7
45°	964.9	1166.4	1220.0	1475.1	1744.1	1869.8	2111.0	2071.3	2070.3	2075.9	2104.5
47.5°	49.0	1097.1	1135.0	1217.3	1647.0	1651.7	1683.1	1947.4	1988.1	1975.1	1977.9
50°	33.3	75.8	1057.4	1095.3	1419.7	1534.3	1557.4	1569.4	1721.9	1892.0	1864.2
52.5°	25.9	43.4	647.9	1016.7	1153.5	1237.6	1386.4	1471.4	1480.7	1549.1	1781.1
55°	23.1	33.3	70.2	938.1	980.6	999.1	1086.0	1234.8	1355.0	1391.0	1393.8
57.5°	20.3	30.5	48.1	424.2	891.9	895.6	910.4	962.2	1070.3	1169.2	1281.0
60°	18.5	26.8	37.9	73.0	810.6	819.8	822.6	836.5	849.4	916.9	1045.3
62.5°	11.1	21.3	33.3	52.7	641.4	736.6	735.7	745.0	757.0	764.4	790.2
65°	9.2	16.6	28.7	44.4	78.6	98.0	595.2	661.8	669.2	679.3	684.0
67.5°	8.3	14.8	21.3	35.1	59.2	67.5	77.6	96.1	525.0	591.5	600.8
70°	7.4	10.2	17.6	29.6	48.1	51.8	58.2	66.5	78.6	97.0	475.1
72.5°	4.6	7.4	12.0	21.3	37.0	41.6	45.3	50.8	56.4	67.5	77.6
75°	1.8	5.5	10.2	15.7	28.7	31.4	34.2	37.9	42.5	49.9	55.5
77.5°	1.8	4.6	8.3	11.1	18.5	21.3	25.0	27.7	31.4	35.1	40.7
80°	6.5	3.7	5.5	8.3	12.9	13.9	15.7	17.6	20.3	23.1	26.8
82.5°	4.6	5.5	6.5	5.5	6.5	8.3	9.2	11.1	12.0	13.9	14.8
85°	3.7	3.7	4.6	4.6	4.6	4.6	4.6	4.6	5.5	6.5	8.3
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7
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-LD5-62HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3069.5	3067.6	3062.1	3062.1	3061.2	3064.9	3067.6	3070.4	3069.5	3075.0	3069.5
5°	3092.6	3088.0	3079.6	3072.2	3069.5	3071.3	3068.5	3071.3	3067.6	3072.2	3063.9
7.5°	3156.4	3140.6	3108.3	3095.4	3078.7	3077.8	3069.5	3067.6	3062.1	3062.1	3051.9
10°	3269.1	3193.3	3184.1	3145.3	3131.4	3063.9	3078.7	3053.8	3051.0	3039.0	3034.4
12.5°	3361.5	3302.4	3284.8	3250.6	3211.8	3075.0	3105.5	3051.9	3049.1	3025.1	3000.2
15°	3363.4	3397.6	3349.5	3255.3	3246.9	3152.7	3090.7	3072.2	3048.2	2976.1	2988.1
17.5°	3255.3	3333.8	3356.9	3336.6	3277.4	3213.7	3126.8	3089.8	3017.7	2985.4	2963.2
20°	3079.6	3159.1	3258.0	3264.5	3301.5	3256.2	3142.5	3082.4	2995.5	2939.2	2920.7
22.5°	2940.1	2998.3	3112.0	3164.7	3210.0	3225.7	3153.6	3064.9	2956.7	2902.2	2891.1
25°	2866.1	2879.1	2913.3	2975.2	3075.0	3147.1	3157.3	3063.0	3006.6	2887.4	2824.5
27.5°	2839.3	2828.2	2814.4	2845.8	2920.7	3008.5	3066.7	3082.4	2941.9	2828.2	2765.4
30°	2770.9	2777.4	2756.1	2745.1	2794.0	2884.6	2988.1	3014.0	2905.9	2788.5	2716.4
32.5°	2686.8	2697.9	2701.6	2682.2	2672.0	2734.9	2846.7	2908.7	2903.1	2732.1	2651.7
35°	2581.5	2612.9	2621.2	2622.1	2605.5	2595.3	2660.0	2788.5	2837.5	2706.2	2589.8
37.5°	2470.6	2479.8	2525.1	2537.1	2537.1	2506.6	2554.7	2657.3	2725.6	2648.0	2514.0
40°	2331.9	2361.5	2404.0	2425.3	2446.5	2449.3	2422.5	2494.6	2607.3	2587.9	2442.8
42.5°	2231.2	2250.6	2276.5	2305.1	2348.5	2359.6	2331.9	2344.9	2462.2	2513.1	2350.4
45°	2113.8	2139.7	2147.1	2178.5	2223.8	2256.1	2255.2	2228.4	2322.7	2385.5	2282.9
47.5°	1993.6	2018.6	2031.5	2047.2	2080.5	2122.1	2145.2	2133.2	2151.7	2274.6	2193.3
50°	1869.8	1883.6	1909.5	1927.1	1949.3	1973.3	2028.8	2039.8	2014.0	2111.9	2094.4
52.5°	1752.4	1757.0	1774.6	1792.1	1821.7	1839.3	1883.6	1916.9	1915.1	1943.7	1984.4
55°	1660.9	1640.6	1644.3	1658.1	1677.5	1704.3	1729.3	1781.1	1798.6	1804.2	1868.9
57.5°	1297.7	1506.5	1525.0	1524.1	1547.2	1559.2	1582.3	1616.5	1679.4	1665.5	1737.6
60°	1179.4	1202.5	1377.2	1397.5	1405.8	1416.9	1444.6	1476.0	1522.3	1551.8	1583.3
62.5°	899.3	1039.8	1092.5	1246.8	1270.9	1277.3	1295.8	1310.6	1358.7	1426.1	1413.2
65°	696.0	756.0	916.9	979.7	1111.0	1127.6	1153.5	1169.2	1183.1	1260.7	1264.4
67.5°	601.7	610.9	654.4	775.5	858.6	987.1	1002.8	1016.7	1037.9	1093.4	1127.6
70°	513.9	525.0	537.0	547.2	655.3	740.3	859.6	864.2	878.0	915.0	992.7
72.5°	97.0	439.0	446.4	452.9	464.9	521.3	635.0	727.4	732.9	750.5	821.7
75°	65.6	76.7	105.4	362.3	374.3	378.0	397.4	513.0	598.0	601.7	633.1
77.5°	47.1	52.7	63.8	75.8	193.2	290.2	294.8	316.1	403.9	467.7	473.2
80°	32.3	36.0	42.5	48.1	59.2	77.6	214.4	220.9	232.0	319.8	336.4
82.5°	18.5	21.3	25.0	30.5	35.1	44.4	57.3	73.9	150.7	160.8	213.5
85°	9.2	10.2	12.0	14.8	17.6	21.3	28.7	35.1	48.1	86.9	89.7
87.5°	4.6	4.6	4.6	4.6	7.4	8.3	10.2	12.9	16.6	25.0	32.3
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: P#

CATALOG NUMBER: 4SNLED-LD5-62HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3070.4	3083.3	3094.4	3097.2	3097.2	3099.0	3101.8	3103.7	3105.5	3107.4	3105.5
5°	3064.9	3078.7	3088.0	3090.7	3090.7	3096.3	3100.9	3106.4	3109.2	3109.2	3107.4
7.5°	3051.0	3061.2	3073.2	3080.6	3081.5	3090.7	3099.0	3098.1	3101.8	3103.7	3108.3
10°	3032.5	3032.5	3052.8	3058.4	3063.0	3073.2	3075.9	3081.5	3094.4	3096.3	3108.3
12.5°	3023.3	3014.0	3038.0	3040.8	3056.5	3043.6	3060.2	3065.8	3052.8	3070.4	3047.3
15°	2981.7	2992.8	2989.1	2997.4	3025.1	3010.3	3055.6	3040.8	3074.1	3034.4	3104.6
17.5°	2947.5	2945.6	2960.4	2967.8	2973.4	3004.8	3016.8	3033.4	3046.4	3035.3	3063.0
20°	2922.5	2907.7	2918.8	2927.1	2946.5	2970.6	2978.0	2953.0	2996.5	3070.4	3088.0
22.5°	2875.4	2865.2	2878.2	2878.2	2907.7	2904.0	2931.8	2916.0	2956.7	3042.7	3132.3
25°	2811.6	2812.5	2826.4	2843.0	2848.6	2890.2	2905.0	2925.3	2976.1	3078.7	3133.2
27.5°	2746.9	2741.4	2749.7	2783.9	2812.5	2843.0	2847.7	2917.0	2986.3	3056.5	3104.6
30°	2682.2	2676.7	2682.2	2707.2	2741.4	2761.7	2812.5	2905.0	2969.7	3017.7	3063.0
32.5°	2612.9	2607.3	2620.3	2638.8	2698.8	2701.6	2802.4	2889.2	2940.1	2975.2	2966.9
35°	2538.9	2531.6	2543.6	2572.2	2627.7	2648.0	2753.4	2818.1	2875.4	2892.0	2853.2
37.5°	2450.2	2437.3	2452.1	2491.8	2550.0	2609.2	2697.0	2771.9	2802.4	2758.0	2711.8
40°	2357.8	2348.5	2374.4	2394.8	2463.2	2545.4	2646.2	2698.8	2679.4	2628.6	2577.8
42.5°	2275.5	2256.1	2279.2	2318.0	2395.7	2489.0	2570.4	2599.9	2553.7	2478.9	2419.7
45°	2174.8	2151.7	2179.4	2231.2	2314.4	2420.6	2484.4	2474.2	2395.7	2331.0	2249.7
47.5°	2069.4	2041.7	2069.4	2131.3	2224.7	2337.5	2383.7	2337.5	2238.6	2157.2	2091.6
50°	1965.9	1933.6	1960.4	2053.7	2145.2	2232.1	2231.2	2141.5	2082.4	1993.6	1936.3
52.5°	1863.3	1817.1	1843.9	1945.6	2037.1	2136.0	2063.0	1979.8	1908.6	1831.0	1812.5
55°	1736.7	1686.8	1722.8	1870.7	1940.9	1999.2	1882.7	1809.7	1739.5	1700.6	1677.5
57.5°	1616.5	1562.0	1593.4	1768.1	1819.9	1834.7	1727.4	1623.9	1582.3	1569.4	1536.1
60°	1492.7	1430.8	1460.3	1661.8	1697.9	1637.8	1532.4	1452.0	1443.7	1417.8	1391.9
62.5°	1374.4	1306.0	1324.5	1529.7	1546.3	1437.2	1340.2	1318.9	1298.6	1272.7	1258.8
65°	1238.5	1167.3	1193.2	1389.2	1373.5	1233.0	1178.4	1173.8	1147.0	1125.8	1146.1
67.5°	1113.7	1029.6	1065.7	1235.7	1164.6	1050.0	1027.8	1016.7	995.4	1007.4	793.9
70°	976.9	885.4	934.4	1070.3	964.9	889.1	880.8	864.2	865.1	687.7	579.5
72.5°	824.4	745.0	816.1	889.1	763.4	741.3	729.2	727.4	586.9	476.9	450.1
75°	690.4	610.0	686.7	714.5	608.2	593.4	592.5	489.9	385.4	367.9	359.5
77.5°	538.8	476.9	549.9	508.3	466.8	450.1	403.9	303.2	290.2	278.2	104.4
80°	363.2	367.9	410.4	350.3	332.7	283.7	223.7	214.4	184.9	73.9	58.2
82.5°	220.9	277.3	261.6	219.1	214.4	154.4	141.4	72.1	53.6	42.5	37.0
85°	114.6	140.5	134.9	119.2	88.7	79.5	44.4	34.2	27.7	21.3	17.6
87.5°	38.8	51.8	49.9	39.7	30.5	24.0	15.7	12.9	9.2	7.4	6.5
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-LD5-62HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3103.7	3103.7	3101.8	3103.7	3104.6	3102.7	3102.7	3104.6	3105.5	3106.4	3111.1
5°	3108.3	3110.1	3112.9	3118.5	3119.4	3130.5	3135.1	3137.9	3140.6	3141.6	3135.1
7.5°	3118.5	3124.9	3130.5	3129.6	3123.1	3105.5	3100.0	3095.4	3103.7	3124.9	3149.9
10°	3127.7	3098.1	3042.7	3118.5	3095.4	3116.6	3179.5	3193.3	3235.8	3295.9	3313.5
12.5°	3063.9	3145.3	3162.8	3077.8	3234.9	3176.7	3246.0	3307.0	3324.6	3385.6	3348.6
15°	3132.3	3172.1	3198.9	3283.9	3274.7	3324.6	3344.0	3332.0	3334.7	3350.4	3392.0
17.5°	3131.4	3210.9	3228.4	3285.8	3324.6	3325.5	3319.9	3314.4	3329.2	3341.2	3316.3
20°	3185.0	3210.9	3245.1	3268.2	3275.6	3284.8	3302.4	3288.5	3260.8	3234.0	3222.9
22.5°	3158.2	3216.4	3246.0	3249.7	3245.1	3216.4	3190.6	3151.7	3138.8	3124.9	3129.6
25°	3163.7	3190.6	3186.9	3172.1	3152.7	3099.0	3086.1	3069.5	3044.5	2984.4	2929.9
27.5°	3124.0	3110.1	3093.5	3057.5	3022.3	2993.7	2961.3	2907.7	2863.4	2798.7	2774.6
30°	3057.5	3002.0	2961.3	2940.1	2905.9	2857.8	2808.8	2743.2	2686.8	2673.9	2661.9
32.5°	2929.9	2875.4	2842.1	2790.3	2732.1	2674.8	2618.4	2592.6	2580.5	2582.4	2571.3
35°	2799.6	2751.5	2701.6	2624.0	2580.5	2523.2	2502.9	2497.4	2486.3	2474.2	2461.3
37.5°	2660.9	2604.6	2529.7	2483.5	2440.1	2416.9	2406.8	2398.5	2379.0	2357.8	2343.0
40°	2526.9	2425.3	2383.7	2338.4	2325.4	2315.3	2300.5	2280.2	2253.4	2249.7	2243.2
42.5°	2347.6	2274.6	2238.6	2229.3	2213.6	2196.0	2183.1	2160.9	2149.8	2157.2	2162.8
45°	2177.6	2140.6	2128.6	2117.5	2087.9	2063.0	2054.6	2047.2	2056.5	2097.2	2000.1
47.5°	2039.8	2025.1	2010.3	1991.8	1964.1	1945.6	1953.9	1961.3	1969.6	1671.1	1525.0
50°	1920.6	1900.3	1877.2	1856.8	1840.2	1838.4	1881.8	1751.5	1466.8	1459.4	1311.5
52.5°	1790.3	1759.8	1745.9	1733.9	1741.3	1769.0	1464.0	1358.7	1303.2	1132.2	1056.4
55°	1649.8	1623.0	1623.0	1634.1	1594.4	1292.1	1276.4	1103.6	999.1	969.6	957.5
57.5°	1509.3	1506.5	1522.3	1391.9	1172.9	1124.8	945.5	907.6	891.0	887.3	867.9
60°	1380.8	1406.7	1177.5	1083.2	941.8	849.4	823.5	818.9	801.3	794.9	777.3
62.5°	1278.3	1060.1	987.1	806.0	758.8	746.8	732.9	726.5	710.8	627.6	183.9
65°	923.3	872.5	708.0	677.5	673.8	656.2	650.7	585.1	137.7	92.4	78.6
67.5°	696.9	618.3	597.1	591.5	574.0	538.8	159.9	91.5	78.6	68.4	60.1
70°	535.1	521.3	505.6	492.6	145.1	90.6	78.6	66.5	57.3	50.8	46.2
72.5°	438.1	428.9	249.6	95.2	77.6	65.6	58.2	50.8	44.4	40.7	37.0
75°	342.9	95.2	78.6	65.6	56.4	48.1	42.5	37.9	34.2	31.4	28.7
77.5°	77.6	62.8	53.6	45.3	40.7	36.0	32.3	27.7	25.0	22.2	18.5
80°	48.1	41.6	35.1	32.3	27.7	23.1	20.3	18.5	14.8	13.9	12.0
82.5°	31.4	25.0	22.2	18.5	14.8	13.9	12.0	9.2	8.3	7.4	6.5
85°	13.9	12.0	10.2	8.3	6.5	5.5	4.6	3.7	3.7	3.7	3.7
87.5°	4.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.8	1.8
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-LD5-62HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3112.9	3129.6	3145.3	3140.6	3124.0	3098.1	3090.7	3080.6	3088.0	3103.7	3110.1
5°	3135.1	3125.9	3159.1	3208.1	3287.6	3295.0	3350.4	3363.4	3407.8	3435.5	3434.6
7.5°	3166.5	3297.8	3352.3	3411.5	3438.3	3431.8	3440.1	3433.6	3423.5	3418.8	3413.3
10°	3326.4	3426.2	3446.6	3446.6	3405.0	3348.6	3324.6	3283.0	3199.8	3201.6	3187.8
12.5°	3419.8	3454.9	3406.8	3366.2	3198.9	3134.2	3063.9	3030.7	3011.2	2981.7	2992.8
15°	3370.8	3320.9	3292.2	3161.0	3058.4	2941.9	2943.8	2923.4	2902.2	2904.0	2890.2
17.5°	3298.7	3258.9	3055.6	2965.0	2915.1	2869.8	2861.5	2834.7	2820.8	2816.2	2815.3
20°	3199.8	3056.5	2905.0	2882.8	2822.7	2770.9	2762.6	2770.9	2813.5	2737.7	2480.7
22.5°	3084.3	2878.2	2833.8	2770.9	2730.3	2709.9	2760.8	2529.7	2180.3	2222.8	2177.6
25°	2888.3	2798.7	2722.9	2674.8	2670.2	2545.4	2121.2	2076.8	1852.2	1732.1	1597.1
27.5°	2745.1	2706.2	2626.8	2618.4	2558.4	2081.4	1860.5	1616.5	1526.9	1513.0	1483.4
30°	2658.2	2602.7	2554.7	2344.9	2041.7	1675.7	1492.7	1458.5	1442.8	1426.1	1400.3
32.5°	2553.7	2501.1	2524.2	1971.5	1627.6	1442.8	1405.8	1380.8	1352.2	1341.1	1247.8
35°	2447.4	2423.4	1972.4	1657.2	1399.3	1355.0	1327.2	1301.4	1035.2	250.5	85.0
37.5°	2333.8	2328.2	1772.7	1375.3	1310.6	1269.0	1190.4	245.9	58.2	39.7	29.6
40°	2245.0	1773.7	1401.2	1289.3	1236.7	1171.0	164.5	40.7	25.9	15.7	10.2
42.5°	2185.9	1595.3	1254.2	1209.9	1095.3	121.1	41.6	17.6	10.2	8.3	6.5
45°	1684.9	1259.8	1172.0	1125.8	138.6	41.6	24.0	8.3	6.5	5.5	3.7
47.5°	1554.6	1144.2	1092.5	245.9	46.2	22.2	16.6	5.5	3.7	3.7	3.7
50°	1177.5	1057.4	869.7	60.1	29.6	15.7	12.0	3.7	3.7	3.7	2.8
52.5°	1032.4	976.0	93.4	39.7	23.1	12.0	7.4	2.8	2.8	2.8	2.8
55°	943.7	619.3	55.5	30.5	19.4	11.1	4.6	2.8	2.8	2.8	1.8
57.5°	863.3	83.2	40.7	25.9	17.6	10.2	2.8	2.8	2.8	2.8	1.8
60°	732.0	60.1	33.3	23.1	16.6	9.2	2.8	2.8	2.8	2.8	2.8
62.5°	95.2	47.1	28.7	20.3	12.0	7.4	1.8	2.8	2.8	2.8	2.8
65°	69.3	37.0	25.9	13.9	7.4	2.8	1.8	2.8	2.8	2.8	2.8
67.5°	53.6	30.5	19.4	12.0	6.5	1.8	1.8	2.8	2.8	2.8	2.8
70°	42.5	25.9	15.7	10.2	5.5	1.8	1.8	2.8	2.8	2.8	2.8
72.5°	33.3	18.5	11.1	5.5	3.7	1.8	1.8	2.8	2.8	2.8	2.8
75°	25.0	14.8	8.3	4.6	1.8	1.8	1.8	2.8	2.8	2.8	2.8
77.5°	16.6	9.2	6.5	3.7	3.7	3.7	4.6	4.6	2.8	2.8	2.8
80°	11.1	6.5	4.6	4.6	4.6	3.7	4.6	4.6	2.8	4.6	2.8
82.5°	5.5	4.6	4.6	3.7	3.7	2.8	3.7	3.7	3.7	3.7	2.8
85°	3.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7	2.8
87.5°	1.8	1.8	1.8	1.8	2.8	2.8	2.8	2.8	3.7	3.7	2.8
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-LD5-62HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3101.8	3104.6	3097.2	3136.9	3116.6	3118.5	3126.8	3105.5	3110.1	3095.4	3085.2
5°	3438.3	3443.8	3449.3	3451.2	3454.9	3459.5	3454.0	3451.2	3445.6	3427.2	3407.8
7.5°	3385.6	3379.1	3376.3	3380.0	3386.5	3389.3	3384.6	3391.1	3415.1	3425.3	3431.8
10°	3108.3	3078.7	3099.0	3096.3	3073.2	3150.8	3129.6	3141.6	3149.9	3234.9	3286.7
12.5°	2976.1	2994.6	2959.5	2941.9	2965.0	2980.7	2996.5	2963.2	3009.4	2988.1	3056.5
15°	2865.2	2854.1	2850.4	2851.3	2846.7	2868.9	2874.5	2881.8	2888.3	2917.0	2928.1
17.5°	2815.3	2833.8	2841.2	2846.7	2837.5	2827.3	2817.1	2802.4	2807.0	2799.6	2820.8
20°	2307.9	2246.0	2242.3	2278.3	2238.6	2260.7	2314.4	2673.0	2660.9	2800.5	2753.4
22.5°	1926.2	1867.9	1818.0	1774.6	1836.5	1862.4	1962.2	2075.0	2258.0	2229.3	2428.0
25°	1573.1	1551.8	1538.9	1532.4	1537.0	1535.2	1557.4	1610.1	1693.2	1889.2	2142.4
27.5°	1471.4	1461.3	1456.6	1441.8	1452.9	1449.2	1466.8	1477.9	1502.8	1522.3	1604.5
30°	1391.0	1379.0	1370.7	1355.0	1366.1	1367.0	1372.5	1401.2	1411.3	1428.0	1453.9
32.5°	508.3	299.5	281.0	267.1	292.1	380.8	668.2	1168.3	1332.8	1345.7	1375.3
35°	49.9	41.6	37.0	37.0	37.9	41.6	55.5	146.0	267.1	1032.4	1292.1
37.5°	19.4	16.6	13.9	12.9	13.9	15.7	21.3	27.7	37.9	78.6	350.3
40°	8.3	7.4	6.5	6.5	6.5	6.5	7.4	9.2	13.9	25.9	40.7
42.5°	5.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.5	8.3	16.6
45°	3.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7	4.6	7.4
47.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7
50°	2.8	2.8	2.8	2.8	1.8	2.8	1.8	2.8	2.8	2.8	2.8
52.5°	2.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8
55°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8
57.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	2.8	1.8
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	2.8	2.8	1.8	2.8	1.8	1.8	2.8	2.8	2.8	1.8	1.8
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5	3.7
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.6	5.5	4.6
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.6	4.6	4.6
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7	3.7
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7	3.7
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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-LD5-62HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3067.6	3066.7	3086.1	3100.9	3095.4	3100.9	3107.4	3108.3	3110.1	3102.7	3100.0
5°	3370.8	3342.1	3286.7	3246.9	3200.7	3116.6	3075.0	3079.6	3080.6	3077.8	3081.5
7.5°	3429.0	3426.2	3406.8	3398.5	3367.1	3307.0	3210.9	3194.2	3153.6	3127.7	3106.4
10°	3283.0	3349.5	3367.1	3396.7	3415.1	3404.1	3322.7	3310.7	3284.8	3255.3	3261.7
12.5°	3124.9	3179.5	3182.2	3343.1	3379.1	3382.8	3351.4	3368.0	3371.7	3305.2	3266.3
15°	2930.8	2956.7	3011.2	3161.0	3270.0	3338.4	3358.8	3368.0	3322.7	3319.9	3304.2
17.5°	2845.8	2862.4	2887.4	2971.5	3136.9	3237.7	3323.6	3317.2	3334.7	3321.8	3282.1
20°	2738.6	2752.5	2796.8	2839.3	2920.7	3054.7	3215.5	3227.5	3250.6	3247.9	3258.9
22.5°	2736.7	2687.8	2695.1	2728.4	2813.5	2933.6	3104.6	3144.3	3159.1	3169.3	3181.3
25°	2171.1	2560.2	2631.4	2652.6	2708.1	2778.3	2979.8	2994.6	3022.3	3067.6	3100.9
27.5°	1880.9	2145.2	2429.9	2577.8	2612.9	2671.1	2791.3	2813.5	2907.7	2918.8	2970.6
30°	1484.4	1688.6	2113.8	2469.6	2527.9	2568.5	2653.6	2697.9	2738.6	2783.0	2837.5
32.5°	1396.6	1428.9	1664.6	2043.5	2496.4	2465.9	2528.8	2555.6	2599.9	2638.8	2678.5
35°	1316.1	1338.3	1388.2	1673.8	2033.4	2381.8	2424.3	2441.9	2466.9	2496.4	2525.1
37.5°	1232.0	1265.3	1299.5	1376.2	1880.9	2315.3	2314.4	2334.7	2349.5	2374.4	2398.5
40°	223.7	1161.8	1217.3	1267.2	1458.5	1846.7	2210.8	2220.1	2230.2	2246.0	2270.9
42.5°	36.0	194.1	1140.5	1188.6	1243.1	1653.5	2163.7	2125.8	2119.3	2130.4	2152.6
45°	18.5	47.1	229.2	1110.0	1159.0	1318.9	1769.0	2060.2	2053.7	2032.5	2037.1
47.5°	13.9	29.6	56.4	383.6	1085.1	1132.2	1632.2	1614.7	1737.6	1973.3	1937.3
50°	12.0	20.3	33.3	78.6	958.5	1042.6	1257.0	1468.7	1533.4	1541.7	1824.5
52.5°	11.1	13.9	24.0	50.8	201.5	964.0	1022.2	1096.2	1205.2	1439.1	1433.5
55°	10.2	12.9	20.3	34.2	70.2	868.8	928.9	942.7	965.9	1077.7	1225.6
57.5°	5.5	12.0	19.4	29.6	52.7	159.0	842.9	854.0	872.5	877.1	929.8
60°	2.8	11.1	17.6	25.9	38.8	73.9	757.9	770.8	781.9	783.8	800.4
62.5°	1.8	10.2	14.8	24.0	32.3	52.7	179.3	366.0	696.0	696.0	715.4
65°	1.8	7.4	9.2	15.7	29.6	43.4	75.8	87.8	171.0	420.5	627.6
67.5°	1.8	2.8	8.3	12.9	22.2	33.3	55.5	64.7	77.6	88.7	164.5
70°	1.8	1.8	7.4	8.3	13.9	25.0	39.7	45.3	52.7	60.1	69.3
72.5°	1.8	1.8	6.5	6.5	9.2	16.6	30.5	33.3	37.9	42.5	49.0
75°	4.6	3.7	5.5	5.5	6.5	12.9	23.1	25.9	27.7	31.4	36.0
77.5°	4.6	4.6	4.6	4.6	4.6	8.3	14.8	16.6	19.4	21.3	25.0
80°	3.7	3.7	3.7	4.6	4.6	5.5	9.2	10.2	11.1	13.9	14.8
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	6.5	8.3
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.7	3.7	3.7
87.5°	2.8	2.8	2.8	1.8	1.8	2.8	2.8	2.8	2.8	2.8	2.8
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-LD5-62HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3099.0	3093.5	3088.9	3091.7	3083.3	3079.6	3082.4	3083.3	3085.2	3089.8	3090.7
5°	3090.7	3088.9	3097.2	3101.8	3100.0	3101.8	3101.8	3098.1	3092.6	3096.3	3088.0
7.5°	3085.2	3073.2	3063.9	3065.8	3056.5	3067.6	3077.8	3092.6	3097.2	3097.2	3088.0
10°	3180.4	3167.4	3115.7	3080.6	3057.5	3037.1	3085.2	3036.2	3059.3	2971.5	3072.2
12.5°	3258.9	3276.5	3253.4	3157.3	3140.6	3079.6	3114.8	3054.7	3037.1	2936.4	2968.7
15°	3290.4	3257.1	3249.7	3222.9	3186.9	3169.3	3075.0	3064.9	3036.2	3047.3	3004.8
17.5°	3262.6	3279.3	3257.1	3239.5	3202.6	3161.0	3104.6	3054.7	3014.9	2926.2	3001.1
20°	3235.8	3258.0	3191.5	3202.6	3206.3	3158.2	3128.6	3087.0	3037.1	2953.9	2889.2
22.5°	3191.5	3175.8	3181.3	3164.7	3150.8	3157.3	3116.6	3088.0	3003.9	2966.0	2878.2
25°	3119.4	3113.8	3128.6	3126.8	3093.5	3082.4	3062.1	3031.6	2998.3	2937.3	2865.2
27.5°	3002.0	3030.7	3056.5	3068.5	3051.0	3021.4	3010.3	2992.8	2969.7	2907.7	2854.1
30°	2878.2	2910.5	2940.1	2966.0	2981.7	2968.7	2958.6	2948.4	2913.3	2872.6	2812.5
32.5°	2736.7	2779.3	2819.9	2851.3	2885.5	2895.7	2888.3	2880.0	2850.4	2813.5	2765.4
35°	2573.1	2631.4	2690.5	2746.9	2761.7	2785.7	2809.8	2795.9	2780.2	2743.2	2698.8
37.5°	2434.5	2476.1	2518.6	2589.8	2641.5	2672.0	2714.6	2720.1	2693.3	2675.7	2617.5
40°	2291.2	2329.1	2391.1	2432.7	2503.8	2538.9	2584.2	2604.6	2598.1	2587.9	2537.1
42.5°	2178.5	2197.0	2237.6	2274.6	2344.9	2416.9	2456.7	2478.9	2502.0	2493.7	2467.8
45°	2058.3	2075.0	2088.8	2121.2	2189.6	2253.4	2302.3	2335.6	2377.2	2396.6	2365.2
47.5°	1939.1	1943.7	1960.4	1987.2	2027.8	2076.8	2159.1	2209.0	2247.8	2285.7	2265.4
50°	1847.6	1831.0	1833.7	1850.4	1883.6	1931.7	1990.9	2061.1	2105.5	2151.7	2156.3
52.5°	1614.7	1749.6	1717.3	1726.5	1744.1	1767.2	1829.1	1898.4	1953.0	1992.7	2032.5
55°	1355.0	1381.8	1641.5	1604.5	1615.6	1635.9	1664.6	1733.9	1786.6	1842.1	1897.5
57.5°	1050.9	1250.5	1260.7	1501.0	1495.5	1497.3	1521.3	1561.1	1613.8	1683.1	1730.2
60°	817.0	901.2	1064.7	1147.9	1358.7	1366.1	1379.9	1403.0	1448.3	1513.9	1588.8
62.5°	720.9	732.0	790.2	915.0	1051.8	1217.3	1246.8	1250.5	1270.9	1336.5	1423.4
65°	633.1	640.5	658.1	671.0	785.6	945.5	1087.9	1111.0	1123.9	1162.7	1236.7
67.5°	436.3	551.8	567.5	576.7	587.8	661.8	838.3	955.7	970.5	1004.7	1069.4
70°	84.1	174.7	477.8	488.0	493.6	510.2	538.8	725.5	823.5	855.9	885.4
72.5°	57.3	67.5	81.3	192.2	406.7	415.9	422.4	446.4	611.9	706.1	721.8
75°	41.6	46.2	54.5	67.5	83.2	270.8	335.5	347.5	359.5	496.3	575.8
77.5°	29.6	33.3	37.0	43.4	50.8	65.6	94.3	259.7	271.7	278.2	392.8
80°	16.6	20.3	25.0	28.7	32.3	37.0	48.1	60.1	134.0	195.9	206.1
82.5°	9.2	11.1	12.9	15.7	17.6	22.2	26.8	32.3	42.5	62.8	133.1
85°	4.6	4.6	4.6	6.5	7.4	10.2	12.0	13.9	19.4	26.8	37.0
87.5°	2.8	2.8	3.7	3.7	3.7	4.6	4.6	4.6	5.5	8.3	12.0
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-LD5-62HL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3079.6	3079.6	3079.6	3079.6	3079.6
2.5°	3091.7	3088.9	3088.9	3100.0	3097.2
5°	3086.1	3083.3	3082.4	3094.4	3088.9
7.5°	3081.5	3071.3	3068.5	3079.6	3075.0
10°	3063.0	3055.6	3060.2	3056.5	3054.7
12.5°	3031.6	3027.0	3007.5	3009.4	3025.1
15°	2975.2	2993.7	2960.4	2990.0	2996.5
17.5°	2871.7	2913.3	2945.6	2963.2	2966.0
20°	2917.9	2931.8	2915.1	2916.0	2927.1
22.5°	2857.8	2864.3	2868.9	2863.4	2887.4
25°	2761.7	2736.7	2790.3	2801.4	2840.3
27.5°	2732.1	2711.8	2736.7	2734.9	2767.2
30°	2708.1	2642.5	2653.6	2671.1	2710.9
32.5°	2673.9	2570.4	2559.3	2598.1	2642.5
35°	2613.8	2515.8	2490.0	2514.9	2581.5
37.5°	2563.0	2440.1	2388.3	2421.6	2508.4
40°	2487.2	2380.9	2300.5	2330.1	2432.7
42.5°	2396.6	2330.1	2206.2	2226.5	2343.9
45°	2305.1	2246.0	2114.7	2124.9	2264.4
47.5°	2211.8	2157.2	2019.5	2021.4	2162.8
50°	2120.3	2048.2	1934.5	1902.1	2054.6
52.5°	2001.0	1934.5	1848.5	1795.8	1952.0
55°	1888.3	1813.4	1750.6	1669.2	1835.6
57.5°	1778.3	1695.1	1652.6	1548.1	1703.4
60°	1627.6	1587.9	1525.0	1425.2	1584.2
62.5°	1473.3	1460.3	1396.6	1293.0	1437.2
65°	1293.0	1323.5	1257.9	1169.2	1284.7
67.5°	1123.0	1177.5	1105.4	1050.9	1137.8
70°	941.8	1004.7	964.0	944.6	981.6
72.5°	763.4	824.4	828.1	814.3	826.3
75°	589.7	657.2	694.1	672.9	675.6
77.5°	447.3	479.7	520.4	537.0	533.3
80°	276.4	332.7	366.0	400.2	388.2
82.5°	139.6	186.7	227.4	264.3	246.8
85°	58.2	74.9	104.4	137.7	132.2
87.5°	17.6	29.6	31.4	44.4	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)