

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-LD5-65SL-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-LD5-65SL-RM-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

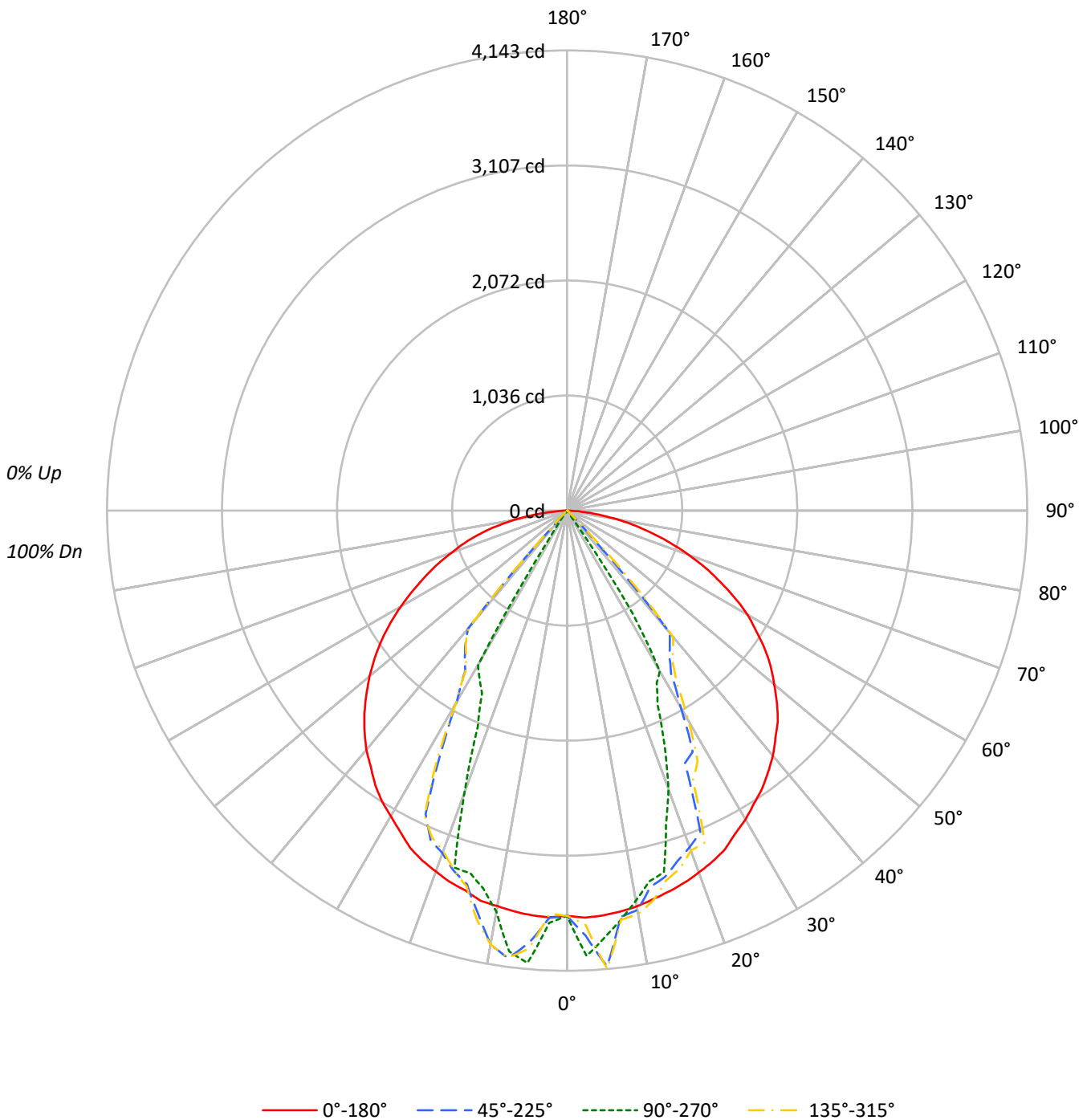
Lumens per Lamp: N/A
Luminaire Lumens: 5187.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 55
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°	29479	29479	29479	29479
5°	29599	30319	29590	32107
10°	29528	27435	29510	28227
15°	29448	25607	29375	25674
20°	29481	20169	29398	20418
25°	29567	14597	29423	13774
30°	29432	12804	29121	12309
35°	29520	282	29086	342
40°	29620	62	28912	62
45°	29725	37	28608	27
50°	29498	29	28145	29
55°	29325	20	27523	20
60°	28771	22	26522	22
65°	27271	35	25329	23
70°	25299	38	24083	38
75°	22378	43	22744	43
80°	18176	49	19216	49
85°	10698	58	10917	58



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.0	7.1
10°-20°	998.3	19.2
20°-30°	1270.3	24.5
30°-40°	1073.1	20.7
40°-50°	701.5	13.5
50°-60°	442.0	8.5
60°-70°	235.3	4.5
70°-80°	85.8	1.7
80°-90°	14.8	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°	2634.5	50.8
0°-40°	3707.6	71.5
0°-60°	4851.2	93.5
0°-90°	5187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5187.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3648	3648	3648	3648	3648	
5°	3659	3860	3658	4088	3659	348
15°	3549	3369	3541	3378	3549	1003
25°	3364	1924	3348	1815	3364	1547
35°	3058	36	3013	44	3058	1913
45°	2682	4	2582	3	2682	2063
55°	2174	2	2041	2	2174	1937
65°	1522	3	1413	2	1522	1507
75°	800	3	813	3	800	849
85°	157	3	160	3	157	198
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°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3668.7	3670.9	3672.0	3674.2	3677.4	3678.5	3680.7	3678.5	3678.5	3678.5	3678.5
5°	3658.8	3663.2	3666.5	3670.9	3678.5	3679.6	3688.4	3689.5	3693.9	3702.6	3709.2
7.5°	3642.4	3646.8	3653.4	3664.3	3675.3	3687.3	3702.6	3719.0	3742.0	3763.9	3791.3
10°	3618.3	3623.8	3631.5	3641.3	3695.0	3702.6	3736.6	3783.6	3796.8	3865.8	3917.2
12.5°	3583.3	3601.9	3621.6	3630.4	3681.8	3762.8	3876.7	3853.7	3828.5	4054.1	4050.8
15°	3549.4	3574.5	3564.7	3635.8	3682.9	3824.1	3776.0	3878.9	4067.2	4021.2	4023.4
17.5°	3513.2	3518.7	3573.4	3632.6	3716.9	3789.1	3848.2	3989.5	4026.7	4030.0	3989.5
20°	3467.2	3493.5	3573.4	3627.1	3769.4	3803.3	3931.4	4003.7	3988.4	3951.1	3882.2
22.5°	3420.2	3500.1	3581.1	3656.6	3756.3	3847.1	3910.6	3944.6	3864.7	3718.0	3639.1
25°	3364.3	3411.4	3517.6	3628.2	3753.0	3805.5	3842.8	3788.0	3684.0	3552.6	3420.2
27.5°	3277.8	3353.4	3489.1	3613.9	3726.7	3790.2	3730.0	3598.6	3431.1	3344.6	3284.4
30°	3211.1	3309.6	3421.3	3541.7	3658.8	3696.1	3542.8	3392.8	3277.8	3191.4	3178.2
32.5°	3130.0	3270.2	3376.4	3491.3	3589.9	3540.6	3391.7	3197.9	3102.7	3069.8	3083.0
35°	3057.8	3164.0	3303.0	3415.8	3487.0	3376.4	3141.0	3020.6	2974.6	2993.2	2969.1
37.5°	2971.3	3111.4	3239.5	3337.0	3312.9	3146.5	2947.2	2870.6	2876.0	2860.7	2814.7
40°	2881.5	3015.1	3148.7	3240.6	3156.3	2902.3	2769.9	2753.4	2756.7	2707.4	2641.8
42.5°	2776.4	2897.9	3031.5	3114.7	2933.0	2734.8	2645.0	2647.2	2618.8	2549.8	2514.8
45°	2682.3	2793.9	2933.0	2940.6	2717.3	2552.0	2525.7	2497.2	2433.7	2410.8	2384.5
47.5°	2561.8	2685.6	2800.5	2758.9	2506.0	2403.1	2383.4	2321.0	2289.2	2271.7	2249.8
50°	2433.7	2558.6	2663.7	2545.4	2306.8	2282.7	2218.1	2168.8	2146.9	2128.3	2108.6
52.5°	2312.2	2415.1	2522.4	2318.8	2153.5	2130.5	2057.1	2028.7	2006.8	1986.0	1981.6
55°	2174.3	2265.1	2338.5	2103.1	2006.8	1953.1	1900.6	1880.9	1860.1	1850.2	1866.6
57.5°	2017.7	2120.6	2109.7	1890.7	1848.0	1770.3	1750.6	1737.5	1722.1	1728.7	1591.8
60°	1876.5	1955.3	1901.7	1735.3	1663.0	1610.5	1592.9	1584.2	1592.9	1459.4	1283.1
62.5°	1702.4	1791.1	1682.7	1553.5	1476.9	1451.7	1436.4	1448.4	1320.3	1173.6	1130.9
65°	1521.8	1618.1	1458.3	1358.7	1310.5	1288.6	1287.5	1185.7	1059.8	1002.8	1002.8
67.5°	1347.7	1447.3	1241.5	1158.3	1139.7	1141.9	1078.4	924.0	889.0	850.7	740.1
70°	1162.7	1250.3	1025.8	975.5	964.5	956.9	802.5	760.9	719.3	617.5	608.7
72.5°	978.8	1021.5	824.4	812.3	810.2	673.3	642.6	571.5	523.3	511.3	505.8
75°	800.3	787.2	651.4	662.4	558.3	510.2	460.9	419.3	412.7	408.4	101.8
77.5°	631.7	566.0	513.5	446.7	399.6	339.4	329.5	323.0	212.4	76.6	62.4
80°	459.8	366.8	341.6	290.1	247.4	237.6	243.0	74.4	59.1	49.3	42.7
82.5°	292.3	234.3	191.6	167.5	163.1	71.2	52.6	42.7	37.2	31.7	26.3
85°	156.6	104.0	96.3	81.0	48.2	32.8	27.4	20.8	17.5	14.2	13.1
87.5°	49.3	41.6	33.9	27.4	16.4	10.9	8.8	7.7	6.6	5.5	5.5
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°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3676.4	3678.5	3677.4	3680.7	3680.7	3685.1	3688.4	3691.7	3698.2	3701.5	3726.7
5°	3723.4	3728.9	3745.3	3760.7	3779.3	3784.7	3816.5	3824.1	3861.4	3865.8	3988.4
7.5°	3828.5	3849.3	3888.7	3928.2	3967.6	3992.7	4036.5	4063.9	4093.5	4119.7	4217.2
10°	3955.5	3990.6	4028.9	4068.3	4091.3	4139.5	4165.7	4170.1	4162.4	4119.7	3962.1
12.5°	4080.3	4115.4	4098.9	4106.6	4134.0	4048.6	4060.6	3999.3	4042.0	3830.7	3674.2
15°	4062.8	4060.6	4020.1	3888.7	3910.6	3747.5	3681.8	3631.5	3672.0	3650.1	3626.0
17.5°	4010.3	3910.6	3840.6	3682.9	3616.1	3570.2	3571.3	3572.3	3552.6	3573.4	3512.1
20°	3788.0	3676.4	3572.3	3516.5	3496.8	3464.0	3480.4	3464.0	3465.1	3471.6	3377.5
22.5°	3492.4	3458.5	3398.3	3415.8	3409.2	3438.8	3416.9	3382.9	3393.9	3344.6	3273.5
25°	3373.1	3333.7	3331.5	3338.1	3328.2	3315.1	3295.4	3243.9	3240.6	3225.3	3192.4
27.5°	3252.7	3254.9	3261.4	3241.7	3206.7	3180.4	3150.8	3125.7	3135.5	3118.0	3073.1
30°	3169.5	3168.4	3128.9	3111.4	3046.8	3047.9	3040.3	3024.9	3015.1	3016.2	2987.7
32.5°	3051.2	3017.3	2972.4	2950.5	2945.0	2925.3	2910.0	2913.3	2920.9	2893.6	2923.1
35°	2929.7	2859.6	2853.1	2834.4	2816.9	2803.8	2809.3	2787.4	2786.3	2783.0	2542.1
37.5°	2766.6	2732.6	2729.3	2709.6	2697.6	2694.3	2673.5	2676.8	2686.6	2704.2	2167.7
40°	2631.9	2601.3	2593.6	2592.5	2566.2	2564.0	2569.5	2590.3	2604.5	2495.1	2065.9
42.5°	2487.4	2489.6	2465.5	2450.2	2453.5	2463.3	2489.6	2417.3	2094.4	1995.8	1888.5
45°	2363.7	2352.7	2339.6	2335.2	2363.7	2344.0	2054.9	1896.2	1857.9	1853.5	1552.4
47.5°	2234.5	2231.2	2225.7	2229.0	2067.0	1842.6	1776.9	1756.1	1762.6	1758.3	1333.5
50°	2104.2	2108.6	2108.6	1841.5	1690.4	1653.2	1658.6	1677.2	1561.2	1457.2	1242.6
52.5°	1991.4	1957.5	1677.2	1580.9	1547.0	1563.4	1524.0	1378.4	1273.3	1211.9	1149.5
55°	1782.3	1532.7	1470.3	1455.0	1467.0	1321.4	1231.7	1137.5	1110.1	1103.6	1067.4
57.5°	1402.4	1352.1	1357.6	1296.2	1157.2	1075.1	1039.0	1025.8	1013.8	1005.0	87.6
60°	1240.4	1254.6	1148.4	1017.1	961.2	950.3	941.5	929.5	927.3	912.0	55.8
62.5°	1135.3	998.5	906.5	873.7	860.5	857.2	840.8	835.3	709.4	97.4	41.6
65°	856.1	800.3	782.8	775.1	760.9	760.9	631.7	99.6	81.0	70.1	37.2
67.5°	698.5	694.1	685.3	675.5	459.8	96.3	84.3	73.4	63.5	55.8	32.8
70°	591.2	589.0	536.5	98.5	82.1	72.3	63.5	56.9	52.6	47.1	29.6
72.5°	485.0	98.5	83.2	72.3	62.4	56.9	51.5	46.0	41.6	38.3	24.1
75°	75.5	66.8	59.1	53.6	49.3	43.8	39.4	36.1	35.0	30.7	16.4
77.5°	54.7	47.1	42.7	38.3	33.9	30.7	26.3	23.0	20.8	17.5	12.0
80°	38.3	33.9	30.7	25.2	21.9	18.6	16.4	14.2	13.1	10.9	5.5
82.5°	21.9	18.6	16.4	13.1	12.0	9.9	8.8	7.7	7.7	5.5	5.5
85°	9.9	9.9	7.7	6.6	5.5	5.5	5.5	4.4	4.4	3.3	3.3
87.5°	4.4	4.4	4.4	4.4	4.4	3.3	3.3	3.3	3.3	3.3	2.2
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°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3761.7	3776.0	3803.3	3831.8	3800.1	3913.9	3905.2	3943.5	3964.3	3974.1	3997.1
5°	4096.8	4160.3	4181.1	4118.7	4082.5	4045.3	3961.0	3897.5	3905.2	3884.4	3808.8
7.5°	4090.2	3954.4	3771.6	3688.4	3681.8	3672.0	3698.2	3713.6	3715.8	3714.7	3712.5
10°	3744.2	3674.2	3662.1	3651.2	3655.6	3615.0	3596.4	3543.9	3572.3	3557.0	3562.5
12.5°	3639.1	3622.7	3558.1	3468.3	3522.0	3481.5	3458.5	3473.8	3456.3	3439.9	3434.4
15°	3576.7	3470.5	3434.4	3412.5	3397.2	3388.4	3396.1	3378.6	3373.1	3369.8	3377.5
17.5°	3447.5	3404.8	3365.4	3307.4	3308.5	3305.2	3327.1	3360.0	3362.1	3193.5	3041.4
20°	3345.7	3310.7	3260.3	3224.2	3273.5	3185.9	2847.6	2686.6	2661.5	2661.5	2665.8
22.5°	3264.7	3187.0	3190.3	3133.3	2672.4	2578.3	2580.5	2590.3	2545.4	2392.1	2375.7
25°	3154.1	3142.1	2902.3	2508.2	2511.5	2438.1	2325.4	2166.6	1994.7	1994.7	1966.3
27.5°	3070.9	2815.8	2465.5	2449.1	2202.7	2047.3	1950.9	1805.3	1785.6	1767.0	1769.2
30°	2999.8	2382.3	2391.1	2047.3	1865.5	1736.4	1728.7	1704.6	1692.6	1689.3	1677.2
32.5°	2371.3	2319.9	2001.3	1742.9	1671.8	1651.0	1641.1	1613.7	1612.6	1591.8	1447.3
35°	2223.5	2036.3	1675.0	1605.0	1584.2	1564.5	1548.1	1039.0	122.6	49.3	42.7
37.5°	2054.9	1701.3	1549.1	1517.4	1497.7	1106.8	110.6	38.3	27.4	19.7	17.5
40°	1741.8	1519.6	1471.4	1436.4	592.3	38.3	24.1	18.6	10.9	9.9	8.8
42.5°	1469.2	1432.0	1380.5	420.4	43.8	18.6	12.0	8.8	7.7	7.7	6.6
45°	1375.1	1342.2	556.2	41.6	27.4	8.8	7.7	7.7	6.6	4.4	4.4
47.5°	1287.5	1133.1	50.4	26.3	17.5	7.7	6.6	4.4	4.4	4.4	3.3
50°	1194.4	62.4	35.0	19.7	10.9	4.4	4.4	4.4	4.4	3.3	3.3
52.5°	223.3	43.8	28.5	17.5	5.5	4.4	4.4	4.4	3.3	3.3	3.3
55°	52.6	35.0	26.3	15.3	4.4	4.4	4.4	3.3	3.3	3.3	2.2
57.5°	39.4	26.3	20.8	14.2	4.4	3.3	3.3	3.3	3.3	3.3	2.2
60°	32.8	18.6	16.4	13.1	3.3	3.3	3.3	3.3	3.3	3.3	2.2
62.5°	23.0	15.3	12.0	9.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
65°	18.6	12.0	9.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
67.5°	16.4	9.9	6.6	2.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
70°	13.1	3.3	3.3	2.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
72.5°	10.9	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	10.9	5.5	2.2	2.2	3.3	3.3	4.4	4.4	3.3	3.3	3.3
77.5°	7.7	5.5	2.2	2.2	3.3	3.3	4.4	4.4	3.3	3.3	3.3
80°	4.4	5.5	2.2	3.3	3.3	6.6	7.7	4.4	3.3	3.3	3.3
82.5°	4.4	5.5	6.6	6.6	3.3	5.5	6.6	5.5	4.4	3.3	3.3
85°	4.4	3.3	4.4	5.5	3.3	5.5	5.5	4.4	4.4	3.3	3.3
87.5°	2.2	3.3	3.3	4.4	4.4	4.4	5.5	4.4	4.4	4.4	3.3
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-LD5-65SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	4008.1	4012.5	3943.5	3919.4	3940.2	3935.8	3917.2	3848.2	3840.6	3794.6	3727.8
5°	3830.7	3860.3	3824.1	3886.6	3857.0	3886.6	3976.3	4017.9	4085.8	4127.4	4142.7
7.5°	3707.0	3713.6	3713.6	3719.0	3724.5	3725.6	3719.0	3714.7	3696.1	3673.1	3714.7
10°	3557.0	3564.7	3577.8	3575.6	3574.5	3597.5	3603.0	3650.1	3647.9	3656.6	3688.4
12.5°	3479.3	3420.2	3473.8	3459.6	3479.3	3448.6	3505.6	3495.7	3499.0	3525.3	3593.1
15°	3350.1	3368.7	3381.8	3381.8	3389.5	3382.9	3376.4	3421.3	3448.6	3449.7	3445.3
17.5°	3101.6	2960.3	3104.9	3067.6	3364.3	3372.0	3346.8	3326.0	3326.0	3342.4	3377.5
20°	2662.6	2665.8	2666.9	2681.2	2698.7	2697.6	2698.7	3130.0	3334.8	3287.7	3255.9
22.5°	2334.1	2293.6	2369.2	2363.7	2457.8	2561.8	2661.5	2651.6	2658.2	2962.5	3236.2
25°	1871.0	1923.6	1880.9	1899.5	2005.7	2129.4	2206.0	2406.4	2624.2	2608.9	2680.1
27.5°	1761.5	1747.3	1767.0	1767.0	1781.2	1797.7	1840.4	1953.1	2146.9	2350.5	2543.2
30°	1657.5	1669.6	1671.8	1691.5	1702.4	1713.4	1719.9	1762.6	1806.4	1947.7	2185.2
32.5°	1244.8	1091.5	1436.4	1529.4	1608.3	1626.9	1640.0	1657.5	1689.3	1710.1	1829.4
35°	36.1	36.1	38.3	43.8	55.8	376.6	1434.2	1580.9	1601.7	1628.0	1649.9
37.5°	17.5	13.1	15.3	16.4	19.7	27.4	39.4	122.6	1365.2	1543.7	1567.8
40°	7.7	7.7	7.7	7.7	8.8	10.9	16.4	27.4	41.6	1098.1	1481.3
42.5°	6.6	6.6	6.6	6.6	6.6	6.6	7.7	9.9	19.7	47.1	777.3
45°	4.4	4.4	3.3	4.4	4.4	5.5	6.6	6.6	8.8	29.6	53.6
47.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.5	6.6	19.7	28.5
50°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	15.3	19.7
52.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.6	17.5
55°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	4.4	15.3
57.5°	2.2	2.2	2.2	2.2	2.2	3.3	2.2	2.2	3.3	3.3	14.2
60°	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3	3.3	13.1
62.5°	3.3	3.3	2.2	3.3	2.2	2.2	3.3	3.3	3.3	3.3	8.8
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	3.3
67.5°	3.3	3.3	3.3	3.3	2.2	3.3	2.2	3.3	3.3	2.2	2.2
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2
75°	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	2.2	2.2	2.2
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	5.5	6.6	5.5	5.5	2.2
80°	3.3	3.3	3.3	3.3	3.3	3.3	5.5	5.5	5.5	5.5	7.7
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	4.4	4.4	5.5
85°	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	4.4	3.3	4.4
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	3.3	3.3	3.3
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-LD5-65SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3733.3	3696.1	3684.0	3658.8	3656.6	3658.8	3653.4	3645.7	3650.1	3642.4	3635.8
5°	4151.5	4051.9	3987.3	3900.8	3781.5	3755.2	3748.6	3711.4	3698.2	3693.9	3676.4
7.5°	3813.2	3994.9	4104.4	4141.6	4001.5	3968.7	3930.3	3899.7	3870.1	3814.3	3780.4
10°	3663.2	3672.0	3777.1	3899.7	4098.9	4126.3	4147.1	4080.3	4061.7	3919.4	3888.7
12.5°	3628.2	3629.3	3641.3	3715.8	3872.3	3889.8	3963.2	4002.6	4050.8	4078.1	4056.2
15°	3468.3	3557.0	3622.7	3629.3	3643.5	3674.2	3696.1	3832.9	3890.9	4046.4	4037.6
17.5°	3393.9	3422.4	3517.6	3595.3	3582.2	3571.3	3588.8	3607.4	3663.2	3818.7	3816.5
20°	3270.2	3361.0	3412.5	3493.5	3566.9	3570.2	3550.4	3539.5	3517.6	3542.8	3565.8
22.5°	3217.6	3231.9	3328.2	3385.1	3468.3	3497.9	3502.3	3503.4	3491.3	3478.2	3471.6
25°	3212.2	3167.3	3216.5	3287.7	3349.0	3380.8	3416.9	3428.9	3424.5	3424.5	3418.0
27.5°	2628.6	3153.0	3126.8	3173.8	3248.3	3270.2	3288.8	3326.0	3349.0	3365.4	3373.1
30°	2503.8	2598.0	3056.7	3063.3	3138.8	3136.6	3157.4	3188.1	3217.6	3255.9	3265.8
32.5°	2214.8	2445.8	2798.3	2952.7	3031.5	3039.2	3050.1	3058.9	3086.3	3128.9	3166.2
35°	1774.7	2227.9	2397.6	2900.1	2914.4	2929.7	2936.3	2957.1	2965.8	2983.3	3016.2
37.5°	1606.1	1841.5	2300.2	2508.2	2779.7	2792.8	2827.9	2836.6	2850.9	2865.1	2890.3
40°	1508.6	1573.2	1914.8	2240.0	2671.3	2680.1	2692.1	2714.0	2715.1	2731.5	2754.5
42.5°	1430.9	1472.5	1572.1	2139.2	2594.7	2593.6	2565.1	2579.4	2585.9	2603.4	2635.2
45°	1143.0	1381.6	1445.1	1747.3	2065.9	2214.8	2500.5	2453.5	2452.4	2458.9	2492.9
47.5°	58.0	1299.5	1344.4	1441.9	1950.9	1956.4	1993.6	2306.8	2354.9	2339.6	2342.9
50°	39.4	89.8	1252.5	1297.3	1681.6	1817.4	1844.7	1859.0	2039.6	2241.1	2208.2
52.5°	30.7	51.5	767.5	1204.3	1366.3	1465.9	1642.2	1742.9	1753.9	1834.9	2109.7
55°	27.4	39.4	83.2	1111.2	1161.6	1183.5	1286.4	1462.7	1605.0	1647.7	1651.0
57.5°	24.1	36.1	56.9	502.5	1056.5	1060.9	1078.4	1139.7	1267.8	1384.9	1517.4
60°	21.9	31.7	44.9	86.5	960.1	971.1	974.4	990.8	1006.1	1086.0	1238.2
62.5°	13.1	25.2	39.4	62.4	759.8	872.6	871.5	882.4	896.6	905.4	936.1
65°	10.9	19.7	33.9	52.6	93.1	116.0	705.1	783.9	792.6	804.7	810.2
67.5°	9.9	17.5	25.2	41.6	70.1	79.9	92.0	113.9	621.8	700.7	711.6
70°	8.8	12.0	20.8	35.0	56.9	61.3	69.0	78.8	93.1	115.0	562.7
72.5°	5.5	8.8	14.2	25.2	43.8	49.3	53.6	60.2	66.8	79.9	92.0
75°	2.2	6.6	12.0	18.6	33.9	37.2	40.5	44.9	50.4	59.1	65.7
77.5°	2.2	5.5	9.9	13.1	21.9	25.2	29.6	32.8	37.2	41.6	48.2
80°	7.7	4.4	6.6	9.9	15.3	16.4	18.6	20.8	24.1	27.4	31.7
82.5°	5.5	6.6	7.7	6.6	7.7	9.9	10.9	13.1	14.2	16.4	17.5
85°	4.4	4.4	5.5	5.5	5.5	5.5	5.5	5.5	6.6	7.7	9.9
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4
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-LD5-65SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3635.8	3633.7	3627.1	3627.1	3626.0	3630.4	3633.7	3636.9	3635.8	3642.4	3635.8
5°	3663.2	3657.7	3647.9	3639.1	3635.8	3638.0	3634.7	3638.0	3633.7	3639.1	3629.3
7.5°	3738.8	3720.1	3681.8	3666.5	3646.8	3645.7	3635.8	3633.7	3627.1	3627.1	3615.0
10°	3872.3	3782.5	3771.6	3725.6	3709.2	3629.3	3646.8	3617.2	3613.9	3599.7	3594.2
12.5°	3981.8	3911.7	3890.9	3850.4	3804.4	3642.4	3678.5	3615.0	3611.8	3583.3	3553.7
15°	3984.0	4024.5	3967.6	3855.9	3846.0	3734.4	3661.0	3639.1	3610.7	3525.3	3539.5
17.5°	3855.9	3949.0	3976.3	3952.2	3882.2	3806.6	3703.7	3659.9	3574.5	3536.2	3509.9
20°	3647.9	3742.0	3859.2	3866.8	3910.6	3857.0	3722.3	3651.2	3548.3	3481.5	3459.6
22.5°	3482.6	3551.5	3686.2	3748.6	3802.3	3820.9	3735.5	3630.4	3502.3	3437.7	3424.5
25°	3395.0	3410.3	3450.8	3524.2	3642.4	3727.8	3739.8	3628.2	3561.4	3420.2	3345.7
27.5°	3363.2	3350.1	3333.7	3370.9	3459.6	3563.6	3632.6	3651.2	3484.8	3350.1	3275.7
30°	3282.2	3289.9	3264.7	3251.6	3309.6	3416.9	3539.5	3570.2	3442.1	3303.0	3217.6
32.5°	3182.6	3195.7	3200.1	3177.1	3165.1	3239.5	3372.0	3445.3	3438.8	3236.2	3141.0
35°	3057.8	3095.0	3104.9	3106.0	3086.3	3074.2	3150.8	3303.0	3361.0	3205.6	3067.6
37.5°	2926.4	2937.4	2991.0	3005.2	3005.2	2969.1	3026.0	3147.6	3228.6	3136.6	2977.9
40°	2762.2	2797.2	2847.6	2872.8	2897.9	2901.2	2869.5	2954.9	3088.4	3065.5	2893.6
42.5°	2642.9	2665.8	2696.5	2730.4	2781.9	2795.0	2762.2	2777.5	2916.6	2976.8	2784.1
45°	2503.8	2534.5	2543.2	2580.5	2634.1	2672.4	2671.3	2639.6	2751.2	2825.7	2704.2
47.5°	2361.5	2391.1	2406.4	2425.0	2464.4	2513.7	2541.0	2526.8	2548.7	2694.3	2598.0
50°	2214.8	2231.2	2261.9	2282.7	2308.9	2337.4	2403.1	2416.2	2385.6	2501.6	2480.8
52.5°	2075.7	2081.2	2102.0	2122.8	2157.9	2178.7	2231.2	2270.6	2268.4	2302.4	2350.5
55°	1967.4	1943.3	1947.7	1964.1	1987.1	2018.8	2048.4	2109.7	2130.5	2137.1	2213.7
57.5°	1537.1	1784.5	1806.4	1805.3	1832.7	1846.9	1874.3	1914.8	1989.3	1972.8	2058.2
60°	1397.0	1424.3	1631.3	1655.3	1665.2	1678.3	1711.2	1748.4	1803.1	1838.2	1875.4
62.5°	1065.2	1231.7	1294.1	1476.9	1505.4	1513.0	1534.9	1552.4	1609.4	1689.3	1674.0
65°	824.4	895.5	1086.0	1160.5	1316.0	1335.7	1366.3	1384.9	1401.3	1493.3	1497.7
67.5°	712.7	723.7	775.1	918.5	1017.1	1169.3	1187.9	1204.3	1229.5	1295.2	1335.7
70°	608.7	621.8	636.1	648.1	776.2	876.9	1018.2	1023.6	1040.1	1083.9	1175.8
72.5°	115.0	520.0	528.8	536.5	550.7	617.5	752.1	861.6	868.2	889.0	973.3
75°	77.7	90.9	124.8	429.2	443.4	447.8	470.8	607.6	708.3	712.7	749.9
77.5°	55.8	62.4	75.5	89.8	228.8	343.8	349.2	374.4	478.4	554.0	560.5
80°	38.3	42.7	50.4	56.9	70.1	92.0	254.0	261.7	274.8	378.8	398.5
82.5°	21.9	25.2	29.6	36.1	41.6	52.6	67.9	87.6	178.5	190.5	252.9
85°	10.9	12.0	14.2	17.5	20.8	25.2	33.9	41.6	56.9	102.9	106.2
87.5°	5.5	5.5	5.5	5.5	8.8	9.9	12.0	15.3	19.7	29.6	38.3
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-LD5-65SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3636.9	3652.3	3665.4	3668.7	3668.7	3670.9	3674.2	3676.4	3678.5	3680.7	3678.5
5°	3630.4	3646.8	3657.7	3661.0	3661.0	3667.6	3673.1	3679.6	3682.9	3682.9	3680.7
7.5°	3613.9	3626.0	3640.2	3649.0	3650.1	3661.0	3670.9	3669.8	3674.2	3676.4	3681.8
10°	3592.1	3592.1	3616.1	3622.7	3628.2	3640.2	3643.5	3650.1	3665.4	3667.6	3681.8
12.5°	3581.1	3570.2	3598.6	3601.9	3620.5	3605.2	3624.9	3631.5	3616.1	3636.9	3609.6
15°	3531.8	3545.0	3540.6	3550.4	3583.3	3565.8	3619.4	3601.9	3641.3	3594.2	3677.4
17.5°	3491.3	3489.1	3506.7	3515.4	3522.0	3559.2	3573.4	3593.1	3608.5	3595.3	3628.2
20°	3461.8	3444.3	3457.4	3467.2	3490.2	3518.7	3527.5	3497.9	3549.4	3636.9	3657.7
22.5°	3405.9	3393.9	3409.2	3409.2	3444.3	3439.9	3472.7	3454.1	3502.3	3604.1	3710.3
25°	3330.4	3331.5	3347.9	3367.6	3374.2	3423.5	3441.0	3465.1	3525.3	3646.8	3711.4
27.5°	3253.8	3247.2	3257.0	3297.5	3331.5	3367.6	3373.1	3455.2	3537.3	3620.5	3677.4
30°	3177.1	3170.6	3177.1	3206.7	3247.2	3271.3	3331.5	3441.0	3517.6	3574.5	3628.2
32.5°	3095.0	3088.4	3103.8	3125.7	3196.8	3200.1	3319.4	3422.4	3482.6	3524.2	3514.3
35°	3007.4	2998.7	3012.9	3046.8	3112.5	3136.6	3261.4	3338.1	3405.9	3425.6	3379.7
37.5°	2902.3	2887.0	2904.5	2951.6	3020.6	3090.6	3194.6	3283.3	3319.4	3266.9	3212.2
40°	2792.8	2781.9	2812.6	2836.6	2917.7	3015.1	3134.4	3196.8	3173.8	3113.6	3053.4
42.5°	2695.4	2672.4	2699.8	2745.8	2837.7	2948.3	3044.6	3079.7	3024.9	2936.3	2866.2
45°	2576.1	2548.7	2581.5	2642.9	2741.4	2867.3	2942.8	2930.8	2837.7	2761.1	2664.8
47.5°	2451.3	2418.4	2451.3	2524.6	2635.2	2768.8	2823.5	2768.8	2651.6	2555.3	2477.5
50°	2328.6	2290.3	2322.1	2432.7	2541.0	2644.0	2642.9	2536.7	2466.6	2361.5	2293.6
52.5°	2207.1	2152.4	2184.1	2304.6	2412.9	2530.1	2443.6	2345.1	2260.8	2168.8	2146.9
55°	2057.1	1998.0	2040.7	2215.9	2299.1	2368.1	2230.1	2143.6	2060.4	2014.4	1987.1
57.5°	1914.8	1850.2	1887.4	2094.4	2155.7	2173.2	2046.2	1923.6	1874.3	1859.0	1819.6
60°	1768.1	1694.8	1729.8	1968.5	2011.2	1940.0	1815.2	1719.9	1710.1	1679.4	1648.8
62.5°	1628.0	1547.0	1568.9	1811.9	1831.6	1702.4	1587.5	1562.3	1538.2	1507.5	1491.1
65°	1467.0	1382.7	1413.4	1645.5	1626.9	1460.5	1395.9	1390.4	1358.7	1333.5	1357.6
67.5°	1319.2	1219.6	1262.3	1463.8	1379.5	1243.7	1217.4	1204.3	1179.1	1193.3	940.4
70°	1157.2	1048.8	1106.8	1267.8	1143.0	1053.2	1043.3	1023.6	1024.7	814.5	686.4
72.5°	976.6	882.4	966.7	1053.2	904.3	878.0	863.8	861.6	695.2	564.9	533.2
75°	817.8	722.6	813.4	846.3	720.4	702.9	701.8	580.2	456.5	435.7	425.9
77.5°	638.3	564.9	651.4	602.1	552.9	533.2	478.4	359.1	343.8	329.5	123.7
80°	430.3	435.7	486.1	414.9	394.1	336.1	264.9	254.0	219.0	87.6	69.0
82.5°	261.7	328.4	309.8	259.5	254.0	182.8	167.5	85.4	63.5	50.4	43.8
85°	135.8	166.4	159.8	141.2	105.1	94.2	52.6	40.5	32.8	25.2	20.8
87.5°	46.0	61.3	59.1	47.1	36.1	28.5	18.6	15.3	10.9	8.8	7.7
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-LD5-65SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3676.4	3676.4	3674.2	3676.4	3677.4	3675.3	3675.3	3677.4	3678.5	3679.6	3685.1
5°	3681.8	3684.0	3687.3	3693.9	3695.0	3708.1	3713.6	3716.9	3720.1	3721.2	3713.6
7.5°	3693.9	3701.5	3708.1	3707.0	3699.3	3678.5	3672.0	3666.5	3676.4	3701.5	3731.1
10°	3704.8	3669.8	3604.1	3693.9	3666.5	3691.7	3766.1	3782.5	3832.9	3904.1	3924.9
12.5°	3629.3	3725.6	3746.4	3645.7	3831.8	3762.8	3845.0	3917.2	3938.0	4010.3	3966.5
15°	3710.3	3757.4	3789.1	3889.8	3878.9	3938.0	3961.0	3946.8	3950.1	3968.7	4017.9
17.5°	3709.2	3803.3	3824.1	3892.0	3938.0	3939.1	3932.5	3926.0	3943.5	3957.7	3928.2
20°	3772.7	3803.3	3843.9	3871.2	3880.0	3890.9	3911.7	3895.3	3862.5	3830.7	3817.6
22.5°	3740.9	3809.9	3845.0	3849.3	3843.9	3809.9	3779.3	3733.3	3718.0	3701.5	3707.0
25°	3747.5	3779.3	3774.9	3757.4	3734.4	3670.9	3655.6	3635.8	3606.3	3535.1	3470.5
27.5°	3700.4	3684.0	3664.3	3621.6	3580.0	3546.1	3507.8	3444.3	3391.7	3315.1	3286.6
30°	3621.6	3555.9	3507.8	3482.6	3442.1	3385.1	3327.1	3249.4	3182.6	3167.3	3153.0
32.5°	3470.5	3405.9	3366.5	3305.2	3236.2	3168.4	3101.6	3070.9	3056.7	3058.9	3045.7
35°	3316.2	3259.2	3200.1	3108.1	3056.7	2988.8	2964.7	2958.2	2945.0	2930.8	2915.5
37.5°	3151.9	3085.2	2996.5	2941.7	2890.3	2862.9	2850.9	2841.0	2818.0	2792.8	2775.3
40°	2993.2	2872.8	2823.5	2769.9	2754.5	2742.5	2725.0	2700.9	2669.1	2664.8	2657.1
42.5°	2780.8	2694.3	2651.6	2640.7	2622.1	2601.3	2585.9	2559.7	2546.5	2555.3	2561.8
45°	2579.4	2535.6	2521.3	2508.2	2473.2	2443.6	2433.7	2425.0	2435.9	2484.1	2369.2
47.5°	2416.2	2398.7	2381.2	2359.3	2326.5	2304.6	2314.4	2323.2	2333.0	1979.4	1806.4
50°	2275.0	2250.9	2223.5	2199.5	2179.8	2177.6	2229.0	2074.7	1737.5	1728.7	1553.5
52.5°	2120.6	2084.5	2068.1	2053.9	2062.6	2095.5	1734.2	1609.4	1543.7	1341.1	1251.4
55°	1954.2	1922.5	1922.5	1935.6	1888.5	1530.5	1511.9	1307.2	1183.5	1148.4	1134.2
57.5°	1787.8	1784.5	1803.1	1648.8	1389.3	1332.4	1120.0	1075.1	1055.4	1051.0	1028.0
60°	1635.6	1666.3	1394.8	1283.1	1115.6	1006.1	975.5	970.0	949.2	941.5	920.7
62.5°	1514.1	1255.7	1169.3	954.7	898.8	884.6	868.2	860.5	841.9	743.4	217.9
65°	1093.7	1033.5	838.6	802.5	798.1	777.3	770.7	693.0	163.1	109.5	93.1
67.5°	825.5	732.4	707.2	700.7	679.9	638.3	189.4	108.4	93.1	81.0	71.2
70°	633.9	617.5	598.9	583.5	171.9	107.3	93.1	78.8	67.9	60.2	54.7
72.5°	518.9	508.0	295.6	112.8	92.0	77.7	69.0	60.2	52.6	48.2	43.8
75°	406.2	112.8	93.1	77.7	66.8	56.9	50.4	44.9	40.5	37.2	33.9
77.5°	92.0	74.4	63.5	53.6	48.2	42.7	38.3	32.8	29.6	26.3	21.9
80°	56.9	49.3	41.6	38.3	32.8	27.4	24.1	21.9	17.5	16.4	14.2
82.5°	37.2	29.6	26.3	21.9	17.5	16.4	14.2	10.9	9.9	8.8	7.7
85°	16.4	14.2	12.0	9.9	7.7	6.6	5.5	4.4	4.4	4.4	4.4
87.5°	5.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2
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-LD5-65SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3687.3	3707.0	3725.6	3720.1	3700.4	3669.8	3661.0	3649.0	3657.7	3676.4	3684.0
5°	3713.6	3702.6	3742.0	3800.1	3894.2	3903.0	3968.7	3984.0	4036.5	4069.4	4068.3
7.5°	3750.8	3906.3	3970.9	4040.9	4072.7	4065.0	4074.9	4067.2	4055.2	4049.7	4043.1
10°	3940.2	4058.4	4082.5	4082.5	4033.3	3966.5	3938.0	3888.7	3790.2	3792.4	3776.0
12.5°	4050.8	4092.4	4035.4	3987.3	3789.1	3712.5	3629.3	3589.9	3566.9	3531.8	3545.0
15°	3992.7	3933.6	3899.7	3744.2	3622.7	3484.8	3487.0	3462.9	3437.7	3439.9	3423.5
17.5°	3907.4	3860.3	3619.4	3512.1	3453.0	3399.4	3389.5	3357.8	3341.3	3335.9	3334.8
20°	3790.2	3620.5	3441.0	3414.7	3343.5	3282.2	3272.4	3282.2	3332.6	3242.8	2938.5
22.5°	3653.4	3409.2	3356.7	3282.2	3234.1	3210.0	3270.2	2996.5	2582.6	2633.0	2579.4
25°	3421.3	3315.1	3225.3	3168.4	3162.9	3015.1	2512.6	2460.0	2194.0	2051.7	1891.8
27.5°	3251.6	3205.6	3111.4	3101.6	3030.4	2465.5	2203.8	1914.8	1808.6	1792.2	1757.2
30°	3148.7	3083.0	3026.0	2777.5	2418.4	1984.9	1768.1	1727.6	1709.0	1689.3	1658.6
32.5°	3024.9	2962.5	2989.9	2335.2	1927.9	1709.0	1665.2	1635.6	1601.7	1588.6	1478.0
35°	2899.0	2870.6	2336.3	1963.0	1657.5	1605.0	1572.1	1541.5	1226.2	296.7	100.7
37.5°	2764.4	2757.8	2099.8	1629.1	1552.4	1503.2	1410.1	291.2	69.0	47.1	35.0
40°	2659.3	2100.9	1659.7	1527.3	1464.8	1387.1	194.9	48.2	30.7	18.6	12.0
42.5°	2589.2	1889.6	1485.6	1433.1	1297.3	143.4	49.3	20.8	12.0	9.9	7.7
45°	1995.8	1492.2	1388.2	1333.5	164.2	49.3	28.5	9.9	7.7	6.6	4.4
47.5°	1841.5	1355.4	1294.1	291.2	54.7	26.3	19.7	6.6	4.4	4.4	4.4
50°	1394.8	1252.5	1030.2	71.2	35.0	18.6	14.2	4.4	4.4	4.4	3.3
52.5°	1222.9	1156.1	110.6	47.1	27.4	14.2	8.8	3.3	3.3	3.3	3.3
55°	1117.8	733.5	65.7	36.1	23.0	13.1	5.5	3.3	3.3	3.3	2.2
57.5°	1022.5	98.5	48.2	30.7	20.8	12.0	3.3	3.3	3.3	3.3	2.2
60°	867.1	71.2	39.4	27.4	19.7	10.9	3.3	3.3	3.3	3.3	3.3
62.5°	112.8	55.8	33.9	24.1	14.2	8.8	2.2	3.3	3.3	3.3	3.3
65°	82.1	43.8	30.7	16.4	8.8	3.3	2.2	3.3	3.3	3.3	3.3
67.5°	63.5	36.1	23.0	14.2	7.7	2.2	2.2	3.3	3.3	3.3	3.3
70°	50.4	30.7	18.6	12.0	6.6	2.2	2.2	3.3	3.3	3.3	3.3
72.5°	39.4	21.9	13.1	6.6	4.4	2.2	2.2	3.3	3.3	3.3	3.3
75°	29.6	17.5	9.9	5.5	2.2	2.2	2.2	3.3	3.3	3.3	3.3
77.5°	19.7	10.9	7.7	4.4	4.4	4.4	5.5	5.5	3.3	3.3	3.3
80°	13.1	7.7	5.5	5.5	5.5	4.4	5.5	5.5	3.3	5.5	3.3
82.5°	6.6	5.5	5.5	4.4	4.4	3.3	4.4	4.4	4.4	4.4	3.3
85°	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	3.3
87.5°	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3	4.4	4.4	3.3
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-LD5-65SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3674.2	3677.4	3668.7	3715.8	3691.7	3693.9	3703.7	3678.5	3684.0	3666.5	3654.5
5°	4072.7	4079.2	4085.8	4088.0	4092.4	4097.9	4091.3	4088.0	4081.4	4059.5	4036.5
7.5°	4010.3	4002.6	3999.3	4003.7	4011.4	4014.6	4009.2	4016.8	4045.3	4057.3	4065.0
10°	3681.8	3646.8	3670.9	3667.6	3640.2	3732.2	3707.0	3721.2	3731.1	3831.8	3893.1
12.5°	3525.3	3547.2	3505.6	3484.8	3512.1	3530.7	3549.4	3509.9	3564.7	3539.5	3620.5
15°	3393.9	3380.8	3376.4	3377.5	3372.0	3398.3	3404.8	3413.6	3421.3	3455.2	3468.3
17.5°	3334.8	3356.7	3365.4	3372.0	3361.0	3349.0	3337.0	3319.4	3324.9	3316.2	3341.3
20°	2733.7	2660.4	2656.0	2698.7	2651.6	2677.9	2741.4	3166.2	3151.9	3317.3	3261.4
22.5°	2281.6	2212.6	2153.5	2102.0	2175.4	2206.0	2324.3	2457.8	2674.6	2640.7	2876.0
25°	1863.4	1838.2	1822.8	1815.2	1820.7	1818.5	1844.7	1907.1	2005.7	2237.8	2537.8
27.5°	1742.9	1730.9	1725.4	1707.9	1721.0	1716.7	1737.5	1750.6	1780.2	1803.1	1900.6
30°	1647.7	1633.4	1623.6	1605.0	1618.1	1619.2	1625.8	1659.7	1671.8	1691.5	1722.1
32.5°	602.1	354.7	332.8	316.4	346.0	451.1	791.5	1383.8	1578.7	1594.0	1629.1
35°	59.1	49.3	43.8	43.8	44.9	49.3	65.7	173.0	316.4	1222.9	1530.5
37.5°	23.0	19.7	16.4	15.3	16.4	18.6	25.2	32.8	44.9	93.1	414.9
40°	9.9	8.8	7.7	7.7	7.7	7.7	8.8	10.9	16.4	30.7	48.2
42.5°	6.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.7	9.9	19.7
45°	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	5.5	8.8
47.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4
50°	3.3	3.3	3.3	3.3	2.2	3.3	2.2	3.3	3.3	3.3	3.3
52.5°	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3
55°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3
57.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
60°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	2.2
65°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3	2.2
67.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
70°	3.3	3.3	2.2	3.3	2.2	2.2	3.3	3.3	3.3	2.2	2.2
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6	4.4
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.5	6.6	5.5
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	5.5	5.5	5.5
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	4.4
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	4.4
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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-LD5-65SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3633.7	3632.6	3655.6	3673.1	3666.5	3673.1	3680.7	3681.8	3684.0	3675.3	3672.0
5°	3992.7	3958.8	3893.1	3846.0	3791.3	3691.7	3642.4	3647.9	3649.0	3645.7	3650.1
7.5°	4061.7	4058.4	4035.4	4025.6	3988.4	3917.2	3803.3	3783.6	3735.5	3704.8	3679.6
10°	3888.7	3967.6	3988.4	4023.4	4045.3	4032.2	3935.8	3921.6	3890.9	3855.9	3863.6
12.5°	3701.5	3766.1	3769.4	3959.9	4002.6	4007.0	3969.8	3989.5	3993.8	3915.0	3869.0
15°	3471.6	3502.3	3566.9	3744.2	3873.4	3954.4	3978.5	3989.5	3935.8	3932.5	3913.9
17.5°	3370.9	3390.6	3420.2	3519.8	3715.8	3835.1	3936.9	3929.3	3950.1	3934.7	3887.6
20°	3243.9	3260.3	3312.9	3363.2	3459.6	3618.3	3808.8	3823.1	3850.4	3847.1	3860.3
22.5°	3241.7	3183.7	3192.4	3231.9	3332.6	3474.9	3677.4	3724.5	3742.0	3754.1	3768.3
25°	2571.7	3032.6	3116.9	3142.1	3207.8	3291.0	3529.6	3547.2	3580.0	3633.7	3673.1
27.5°	2227.9	2541.0	2878.2	3053.4	3095.0	3164.0	3306.3	3332.6	3444.3	3457.4	3518.7
30°	1758.3	2000.2	2503.8	2925.3	2994.3	3042.5	3143.2	3195.7	3243.9	3296.5	3361.0
32.5°	1654.2	1692.6	1971.7	2420.6	2957.1	2920.9	2995.4	3027.1	3079.7	3125.7	3172.7
35°	1559.0	1585.3	1644.4	1982.7	2408.6	2821.3	2871.7	2892.5	2922.0	2957.1	2991.0
37.5°	1459.4	1498.8	1539.3	1630.2	2227.9	2742.5	2741.4	2765.5	2783.0	2812.6	2841.0
40°	264.9	1376.2	1441.9	1501.0	1727.6	2187.4	2618.8	2629.7	2641.8	2660.4	2689.9
42.5°	42.7	229.9	1351.0	1407.9	1472.5	1958.6	2562.9	2518.0	2510.4	2523.5	2549.8
45°	21.9	55.8	271.5	1314.9	1372.9	1562.3	2095.5	2440.3	2432.7	2407.5	2412.9
47.5°	16.4	35.0	66.8	454.3	1285.3	1341.1	1933.4	1912.6	2058.2	2337.4	2294.7
50°	14.2	24.1	39.4	93.1	1135.3	1234.9	1488.9	1739.6	1816.3	1826.1	2161.1
52.5°	13.1	16.4	28.5	60.2	238.7	1141.9	1210.9	1298.4	1427.6	1704.6	1698.0
55°	12.0	15.3	24.1	40.5	83.2	1029.1	1100.3	1116.7	1144.1	1276.5	1451.7
57.5°	6.6	14.2	23.0	35.0	62.4	188.3	998.5	1011.6	1033.5	1039.0	1101.4
60°	3.3	13.1	20.8	30.7	46.0	87.6	897.7	913.1	926.2	928.4	948.1
62.5°	2.2	12.0	17.5	28.5	38.3	62.4	212.4	433.5	824.4	824.4	847.4
65°	2.2	8.8	10.9	18.6	35.0	51.5	89.8	104.0	202.5	498.1	743.4
67.5°	2.2	3.3	9.9	15.3	26.3	39.4	65.7	76.6	92.0	105.1	194.9
70°	2.2	2.2	8.8	9.9	16.4	29.6	47.1	53.6	62.4	71.2	82.1
72.5°	2.2	2.2	7.7	7.7	10.9	19.7	36.1	39.4	44.9	50.4	58.0
75°	5.5	4.4	6.6	6.6	7.7	15.3	27.4	30.7	32.8	37.2	42.7
77.5°	5.5	5.5	5.5	5.5	5.5	9.9	17.5	19.7	23.0	25.2	29.6
80°	4.4	4.4	4.4	5.5	5.5	6.6	10.9	12.0	13.1	16.4	17.5
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6	7.7	9.9
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	4.4	4.4
87.5°	3.3	3.3	3.3	2.2	2.2	3.3	3.3	3.3	3.3	3.3	3.3
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-LD5-65SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3670.9	3664.3	3658.8	3662.1	3652.3	3647.9	3651.2	3652.3	3654.5	3659.9	3661.0
5°	3661.0	3658.8	3668.7	3674.2	3672.0	3674.2	3674.2	3669.8	3663.2	3667.6	3657.7
7.5°	3654.5	3640.2	3629.3	3631.5	3620.5	3633.7	3645.7	3663.2	3668.7	3668.7	3657.7
10°	3767.2	3751.9	3690.6	3649.0	3621.6	3597.5	3654.5	3596.4	3623.8	3519.8	3639.1
12.5°	3860.3	3881.1	3853.7	3739.8	3720.1	3647.9	3689.5	3618.3	3597.5	3478.2	3516.5
15°	3897.5	3858.1	3849.3	3817.6	3774.9	3754.1	3642.4	3630.4	3596.4	3609.6	3559.2
17.5°	3864.7	3884.4	3858.1	3837.3	3793.5	3744.2	3677.4	3618.3	3571.3	3466.1	3554.8
20°	3832.9	3859.2	3780.4	3793.5	3797.9	3740.9	3705.9	3656.6	3597.5	3499.0	3422.4
22.5°	3780.4	3761.7	3768.3	3748.6	3732.2	3739.8	3691.7	3657.7	3558.1	3513.2	3409.2
25°	3695.0	3688.4	3705.9	3703.7	3664.3	3651.2	3627.1	3591.0	3551.5	3479.3	3393.9
27.5°	3555.9	3589.9	3620.5	3634.7	3613.9	3578.9	3565.8	3545.0	3517.6	3444.3	3380.8
30°	3409.2	3447.5	3482.6	3513.2	3531.8	3516.5	3504.5	3492.4	3450.8	3402.7	3331.5
32.5°	3241.7	3292.1	3340.2	3377.5	3418.0	3430.0	3421.3	3411.4	3376.4	3332.6	3275.7
35°	3047.9	3116.9	3187.0	3253.8	3271.3	3299.7	3328.2	3311.8	3293.2	3249.4	3196.8
37.5°	2883.7	2933.0	2983.3	3067.6	3128.9	3165.1	3215.4	3222.0	3190.3	3169.5	3100.5
40°	2714.0	2758.9	2832.3	2881.5	2965.8	3007.4	3061.1	3085.2	3077.5	3065.5	3005.2
42.5°	2580.5	2602.3	2650.5	2694.3	2777.5	2862.9	2910.0	2936.3	2963.6	2953.8	2923.1
45°	2438.1	2457.8	2474.3	2512.6	2593.6	2669.1	2727.2	2766.6	2815.8	2838.8	2801.6
47.5°	2296.9	2302.4	2322.1	2353.8	2402.0	2460.0	2557.5	2616.6	2662.6	2707.4	2683.4
50°	2188.5	2168.8	2172.1	2191.8	2231.2	2288.1	2358.2	2441.4	2494.0	2548.7	2554.2
52.5°	1912.6	2072.5	2034.1	2045.1	2065.9	2093.3	2166.6	2248.7	2313.3	2360.4	2407.5
55°	1605.0	1636.7	1944.4	1900.6	1913.7	1937.8	1971.7	2053.9	2116.3	2181.9	2247.6
57.5°	1244.8	1481.3	1493.3	1778.0	1771.4	1773.6	1802.0	1849.1	1911.5	1993.6	2049.5
60°	967.8	1067.4	1261.2	1359.7	1609.4	1618.1	1634.5	1661.9	1715.6	1793.3	1882.0
62.5°	853.9	867.1	936.1	1083.9	1245.9	1441.9	1476.9	1481.3	1505.4	1583.1	1686.0
65°	749.9	758.7	779.5	794.8	930.6	1120.0	1288.6	1316.0	1331.3	1377.3	1464.8
67.5°	516.7	653.6	672.2	683.2	696.3	783.9	993.0	1132.0	1149.5	1190.1	1266.7
70°	99.6	206.9	566.0	578.1	584.6	604.3	638.3	859.4	975.5	1013.8	1048.8
72.5°	67.9	79.9	96.3	227.7	481.7	492.7	500.3	528.8	724.8	836.4	855.0
75°	49.3	54.7	64.6	79.9	98.5	320.8	397.4	411.6	425.9	587.9	682.1
77.5°	35.0	39.4	43.8	51.5	60.2	77.7	111.7	307.6	321.9	329.5	465.3
80°	19.7	24.1	29.6	33.9	38.3	43.8	56.9	71.2	158.7	232.1	244.1
82.5°	10.9	13.1	15.3	18.6	20.8	26.3	31.7	38.3	50.4	74.4	157.7
85°	5.5	5.5	5.5	7.7	8.8	12.0	14.2	16.4	23.0	31.7	43.8
87.5°	3.3	3.3	4.4	4.4	4.4	5.5	5.5	5.5	6.6	9.9	14.2
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-LD5-65SL-RM-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3647.9	3647.9	3647.9	3647.9	3647.9
2.5°	3662.1	3658.8	3658.8	3672.0	3668.7
5°	3655.6	3652.3	3651.2	3665.4	3658.8
7.5°	3650.1	3638.0	3634.7	3647.9	3642.4
10°	3628.2	3619.4	3624.9	3620.5	3618.3
12.5°	3591.0	3585.5	3562.5	3564.7	3583.3
15°	3524.2	3546.1	3506.7	3541.7	3549.4
17.5°	3401.6	3450.8	3489.1	3509.9	3513.2
20°	3456.3	3472.7	3453.0	3454.1	3467.2
22.5°	3385.1	3392.8	3398.3	3391.7	3420.2
25°	3271.3	3241.7	3305.2	3318.4	3364.3
27.5°	3236.2	3212.2	3241.7	3239.5	3277.8
30°	3207.8	3130.0	3143.2	3164.0	3211.1
32.5°	3167.3	3044.6	3031.5	3077.5	3130.0
35°	3096.1	2980.1	2949.4	2979.0	3057.8
37.5°	3035.9	2890.3	2829.0	2868.4	2971.3
40°	2946.1	2820.2	2725.0	2760.0	2881.5
42.5°	2838.8	2760.0	2613.3	2637.4	2776.4
45°	2730.4	2660.4	2504.9	2517.0	2682.3
47.5°	2619.9	2555.3	2392.1	2394.3	2561.8
50°	2511.5	2426.1	2291.4	2253.1	2433.7
52.5°	2370.3	2291.4	2189.6	2127.2	2312.2
55°	2236.7	2148.0	2073.6	1977.2	2174.3
57.5°	2106.4	2007.9	1957.5	1833.8	2017.7
60°	1927.9	1880.9	1806.4	1688.2	1876.5
62.5°	1745.1	1729.8	1654.2	1531.6	1702.4
65°	1531.6	1567.8	1490.0	1384.9	1521.8
67.5°	1330.2	1394.8	1309.4	1244.8	1347.7
70°	1115.6	1190.1	1141.9	1118.9	1162.7
72.5°	904.3	976.6	980.9	964.5	978.8
75°	698.5	778.4	822.2	797.0	800.3
77.5°	529.9	568.2	616.4	636.1	631.7
80°	327.3	394.1	433.5	474.1	459.8
82.5°	165.3	221.2	269.3	313.1	292.3
85°	69.0	88.7	123.7	163.1	156.6
87.5°	20.8	35.0	37.2	52.6	49.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)