

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-L940-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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

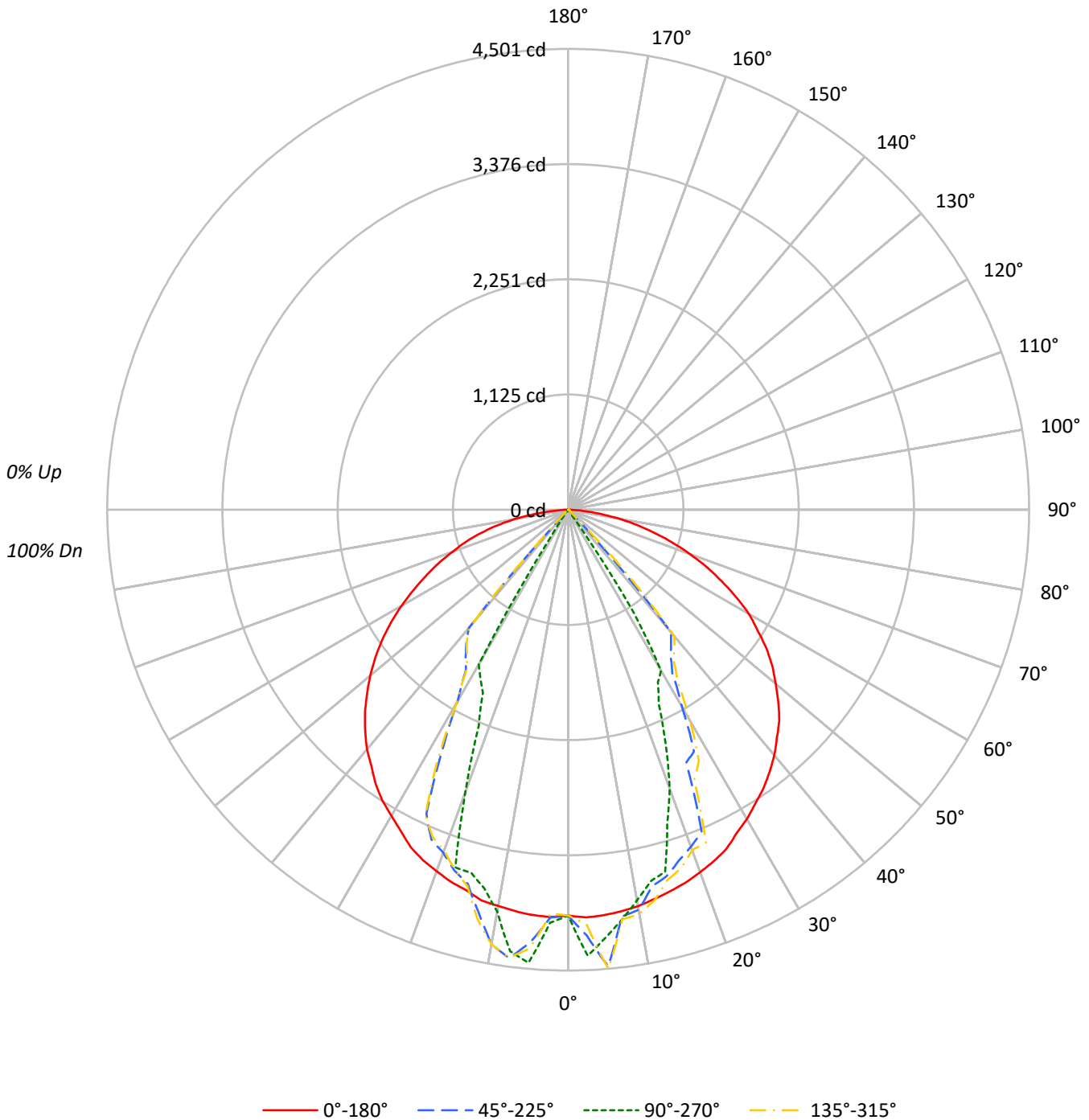
Lumens per Lamp: N/A
Luminaire Lumens: 5636.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	32031	32031	32031	32031
5°	32162	32943	32152	34886
10°	32084	29809	32065	30670
15°	31997	27824	31918	27896
20°	32034	21915	31943	22186
25°	32127	15860	31969	14966
30°	31979	13912	31641	13374
35°	32075	307	31604	372
40°	32185	67	31414	67
45°	32298	40	31085	30
50°	32051	31	30581	31
55°	31863	22	29906	22
60°	31261	24	28817	24
65°	29631	38	27520	25
70°	27488	42	26170	42
75°	24315	47	24715	47
80°	19750	54	20880	54
85°	11621	63	11867	63



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.7	7.1
10°-20°	1084.7	19.2
20°-30°	1380.2	24.5
30°-40°	1165.9	20.7
40°-50°	762.3	13.5
50°-60°	480.3	8.5
60°-70°	255.7	4.5
70°-80°	93.2	1.7
80°-90°	16.0	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°	2862.6	50.8
0°-40°	4028.5	71.5
0°-60°	5271.1	93.5
0°-90°	5636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5636.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3964	3964	3964	3964	3964	
5°	3976	4194	3974	4442	3976	378
15°	3857	3660	3847	3670	3857	1090
25°	3656	2090	3638	1972	3656	1681
35°	3322	39	3274	48	3322	2078
45°	2914	5	2805	4	2914	2241
55°	2362	2	2217	2	2362	2105
65°	1654	4	1536	2	1654	1638
75°	870	4	884	4	870	923
85°	170	4	174	4	170	215
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°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	3986.3	3988.6	3989.8	3992.2	3995.8	3997.0	3999.3	3997.0	3997.0	3997.0	3997.0
5°	3975.6	3980.3	3983.9	3988.6	3997.0	3998.2	4007.7	4008.9	4013.6	4023.1	4030.3
7.5°	3957.7	3962.5	3969.6	3981.5	3993.4	4006.5	4023.1	4041.0	4066.0	4089.8	4119.5
10°	3931.5	3937.5	3945.8	3956.5	4014.8	4023.1	4060.0	4111.2	4125.4	4200.4	4256.3
12.5°	3893.5	3913.7	3935.1	3944.6	4000.5	4088.6	4212.3	4187.3	4159.9	4405.0	4401.4
15°	3856.6	3884.0	3873.2	3950.6	4001.7	4155.2	4102.8	4214.7	4419.3	4369.3	4371.7
17.5°	3817.3	3823.3	3882.8	3947.0	4038.6	4117.1	4181.3	4334.8	4375.2	4378.8	4334.8
20°	3767.4	3795.9	3882.8	3941.1	4095.7	4132.6	4271.8	4350.3	4333.6	4293.2	4218.2
22.5°	3716.2	3803.1	3891.1	3973.2	4081.4	4180.2	4249.2	4286.0	4199.2	4039.8	3954.1
25°	3655.6	3706.7	3822.1	3942.2	4077.9	4135.0	4175.4	4115.9	4002.9	3860.2	3716.2
27.5°	3561.6	3643.7	3791.2	3926.8	4049.3	4118.3	4052.9	3910.1	3728.1	3634.1	3568.7
30°	3489.0	3596.1	3717.4	3848.3	3975.6	4016.0	3849.5	3686.5	3561.6	3467.6	3453.3
32.5°	3401.0	3553.3	3668.6	3793.5	3900.6	3847.1	3685.3	3474.7	3371.2	3335.6	3349.8
35°	3322.5	3437.9	3588.9	3711.5	3788.8	3668.6	3412.9	3282.0	3232.1	3252.3	3226.1
37.5°	3228.5	3380.8	3519.9	3625.8	3599.6	3418.8	3202.3	3119.1	3125.0	3108.4	3058.4
40°	3131.0	3276.1	3421.2	3521.1	3429.5	3153.6	3009.6	2991.8	2995.3	2941.8	2870.4
42.5°	3016.8	3148.8	3293.9	3384.3	3186.9	2971.6	2874.0	2876.4	2845.5	2770.5	2732.4
45°	2914.5	3035.8	3186.9	3195.2	2952.5	2772.9	2744.3	2713.4	2644.4	2619.4	2590.9
47.5°	2783.6	2918.0	3042.9	2997.7	2722.9	2611.1	2589.7	2521.9	2487.4	2468.4	2444.6
50°	2644.4	2780.0	2894.2	2765.8	2506.4	2480.3	2410.1	2356.5	2332.8	2312.5	2291.1
52.5°	2512.4	2624.2	2740.8	2519.5	2339.9	2314.9	2235.2	2204.3	2180.5	2157.9	2153.1
55°	2362.5	2461.2	2540.9	2285.2	2180.5	2122.2	2065.1	2043.7	2021.1	2010.4	2028.2
57.5°	2192.4	2304.2	2292.3	2054.4	2008.0	1923.5	1902.1	1887.9	1871.2	1878.3	1729.6
60°	2038.9	2124.6	2066.3	1885.5	1807.0	1749.9	1730.8	1721.3	1730.8	1585.7	1394.2
62.5°	1849.8	1946.1	1828.4	1688.0	1604.7	1577.4	1560.7	1573.8	1434.6	1275.2	1228.8
65°	1653.5	1758.2	1584.5	1476.3	1423.9	1400.1	1398.9	1288.3	1151.5	1089.6	1089.6
67.5°	1464.4	1572.6	1349.0	1258.6	1238.3	1240.7	1171.7	1004.0	965.9	924.3	804.2
70°	1263.3	1358.5	1114.6	1059.9	1048.0	1039.7	872.0	826.8	781.5	670.9	661.4
72.5°	1063.5	1109.9	895.7	882.7	880.3	731.6	698.3	621.0	568.6	555.5	549.6
75°	869.6	855.3	707.8	719.7	606.7	554.3	500.8	455.6	448.5	443.7	110.6
77.5°	686.4	615.0	557.9	485.3	434.2	368.8	358.1	350.9	230.8	83.3	67.8
80°	499.6	398.5	371.1	315.2	268.8	258.1	264.1	80.9	64.2	53.5	46.4
82.5°	317.6	254.6	208.2	182.0	177.2	77.3	57.1	46.4	40.4	34.5	28.5
85°	170.1	113.0	104.7	88.0	52.3	35.7	29.7	22.6	19.0	15.5	14.3
87.5°	53.5	45.2	36.9	29.7	17.8	11.9	9.5	8.3	7.1	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	3994.6	3997.0	3995.8	3999.3	3999.3	4004.1	4007.7	4011.2	4018.4	4021.9	4049.3
5°	4045.7	4051.7	4069.5	4086.2	4106.4	4112.4	4146.9	4155.2	4195.6	4200.4	4333.6
7.5°	4159.9	4182.5	4225.4	4268.2	4311.0	4338.4	4386.0	4415.7	4447.8	4476.4	4582.2
10°	4297.9	4336.0	4377.6	4420.5	4445.4	4497.8	4526.3	4531.1	4522.8	4476.4	4305.1
12.5°	4433.5	4471.6	4453.8	4462.1	4491.8	4399.0	4412.1	4345.5	4391.9	4162.3	3992.2
15°	4414.5	4412.1	4368.1	4225.4	4249.2	4071.9	4000.5	3945.8	3989.8	3966.0	3939.9
17.5°	4357.4	4249.2	4173.0	4001.7	3929.2	3879.2	3880.4	3881.6	3860.2	3882.8	3816.1
20°	4115.9	3994.6	3881.6	3820.9	3799.5	3763.8	3781.7	3763.8	3765.0	3772.1	3669.8
22.5°	3794.7	3757.9	3692.4	3711.5	3704.3	3736.4	3712.7	3675.8	3687.7	3634.1	3556.8
25°	3665.1	3622.2	3619.9	3627.0	3616.3	3602.0	3580.6	3524.7	3521.1	3504.5	3468.8
27.5°	3534.2	3536.6	3543.7	3522.3	3484.3	3455.7	3423.6	3396.2	3406.9	3387.9	3339.1
30°	3443.8	3442.6	3399.8	3380.8	3310.6	3311.8	3303.4	3286.8	3276.1	3277.3	3246.3
32.5°	3315.3	3278.5	3229.7	3205.9	3200.0	3178.5	3161.9	3165.5	3173.8	3144.0	3176.2
35°	3183.3	3107.2	3100.0	3079.8	3060.8	3046.5	3052.4	3028.7	3027.5	3023.9	2762.2
37.5°	3006.1	2969.2	2965.6	2944.2	2931.1	2927.5	2904.9	2908.5	2919.2	2938.2	2355.4
40°	2859.7	2826.4	2818.1	2816.9	2788.4	2786.0	2791.9	2814.5	2830.0	2711.0	2244.7
42.5°	2702.7	2705.1	2678.9	2662.3	2665.8	2676.5	2705.1	2626.6	2275.7	2168.6	2052.0
45°	2568.3	2556.4	2542.1	2537.4	2568.3	2546.9	2232.8	2060.3	2018.7	2013.9	1686.8
47.5°	2427.9	2424.3	2418.4	2422.0	2245.9	2002.1	1930.7	1908.1	1915.2	1910.5	1448.9
50°	2286.4	2291.1	2291.1	2000.9	1836.7	1796.3	1802.2	1822.4	1696.3	1583.3	1350.2
52.5°	2163.8	2127.0	1822.4	1717.7	1680.9	1698.7	1655.9	1497.7	1383.5	1316.9	1249.1
55°	1936.6	1665.4	1597.6	1580.9	1594.0	1435.8	1338.3	1236.0	1206.2	1199.1	1159.8
57.5°	1523.8	1469.1	1475.1	1408.5	1257.4	1168.2	1128.9	1114.6	1101.5	1092.0	95.2
60°	1347.8	1363.3	1247.9	1105.1	1044.4	1032.5	1023.0	1009.9	1007.6	990.9	60.7
62.5°	1233.6	1084.9	985.0	949.3	935.0	931.4	913.6	907.6	770.8	105.9	45.2
65°	930.2	869.6	850.5	842.2	826.8	826.8	686.4	108.3	88.0	76.1	40.4
67.5°	758.9	754.2	744.7	734.0	499.6	104.7	91.6	79.7	69.0	60.7	35.7
70°	642.4	640.0	582.9	107.1	89.2	78.5	69.0	61.9	57.1	51.2	32.1
72.5°	527.0	107.1	90.4	78.5	67.8	61.9	55.9	50.0	45.2	41.6	26.2
75°	82.1	72.6	64.2	58.3	53.5	47.6	42.8	39.3	38.1	33.3	17.8
77.5°	59.5	51.2	46.4	41.6	36.9	33.3	28.5	25.0	22.6	19.0	13.1
80°	41.6	36.9	33.3	27.4	23.8	20.2	17.8	15.5	14.3	11.9	5.9
82.5°	23.8	20.2	17.8	14.3	13.1	10.7	9.5	8.3	8.3	5.9	5.9
85°	10.7	10.7	8.3	7.1	5.9	5.9	5.9	4.8	4.8	3.6	3.6
87.5°	4.8	4.8	4.8	4.8	4.8	3.6	3.6	3.6	3.6	3.6	2.4
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°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	4087.4	4102.8	4132.6	4163.5	4129.0	4252.7	4243.2	4284.8	4307.4	4318.1	4343.1
5°	4451.4	4520.4	4543.0	4475.2	4435.9	4395.5	4303.9	4234.9	4243.2	4220.6	4138.5
7.5°	4444.2	4296.7	4098.1	4007.7	4000.5	3989.8	4018.4	4035.0	4037.4	4036.2	4033.8
10°	4068.3	3992.2	3979.1	3967.2	3972.0	3928.0	3907.7	3850.6	3881.6	3864.9	3870.9
12.5°	3954.1	3936.3	3866.1	3768.6	3826.9	3782.8	3757.9	3774.5	3755.5	3737.6	3731.7
15°	3886.3	3770.9	3731.7	3707.9	3691.2	3681.7	3690.1	3671.0	3665.1	3661.5	3669.8
17.5°	3746.0	3699.6	3656.7	3593.7	3594.9	3591.3	3615.1	3650.8	3653.2	3470.0	3304.6
20°	3635.3	3597.3	3542.5	3503.3	3556.8	3461.7	3094.1	2919.2	2891.9	2891.9	2896.6
22.5°	3547.3	3462.8	3466.4	3404.6	2903.7	2801.4	2803.8	2814.5	2765.8	2599.2	2581.4
25°	3427.2	3414.1	3153.6	2725.3	2728.9	2649.2	2526.7	2354.2	2167.4	2167.4	2136.5
27.5°	3336.8	3059.6	2678.9	2661.1	2393.4	2224.5	2119.8	1961.6	1940.2	1920.0	1922.3
30°	3259.4	2588.5	2598.0	2224.5	2027.0	1886.7	1878.3	1852.2	1839.1	1835.5	1822.4
32.5°	2576.6	2520.7	2174.5	1893.8	1816.5	1793.9	1783.2	1753.4	1752.2	1729.6	1572.6
35°	2416.0	2212.6	1820.0	1743.9	1721.3	1699.9	1682.1	1128.9	133.2	53.5	46.4
37.5°	2232.8	1848.6	1683.2	1648.7	1627.3	1202.7	120.1	41.6	29.7	21.4	19.0
40°	1892.6	1651.1	1598.8	1560.7	643.6	41.6	26.2	20.2	11.9	10.7	9.5
42.5°	1596.4	1556.0	1500.1	456.8	47.6	20.2	13.1	9.5	8.3	8.3	7.1
45°	1494.1	1458.4	604.3	45.2	29.7	9.5	8.3	8.3	7.1	4.8	4.8
47.5°	1398.9	1231.2	54.7	28.5	19.0	8.3	7.1	4.8	4.8	4.8	3.6
50°	1297.8	67.8	38.1	21.4	11.9	4.8	4.8	4.8	4.8	3.6	3.6
52.5°	242.7	47.6	30.9	19.0	5.9	4.8	4.8	4.8	3.6	3.6	3.6
55°	57.1	38.1	28.5	16.7	4.8	4.8	4.8	3.6	3.6	3.6	2.4
57.5°	42.8	28.5	22.6	15.5	4.8	3.6	3.6	3.6	3.6	3.6	2.4
60°	35.7	20.2	17.8	14.3	3.6	3.6	3.6	3.6	3.6	3.6	2.4
62.5°	25.0	16.7	13.1	10.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	20.2	13.1	10.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	17.8	10.7	7.1	2.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
70°	14.3	3.6	3.6	2.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	11.9	3.6	2.4	2.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	11.9	5.9	2.4	2.4	3.6	3.6	4.8	4.8	3.6	3.6	3.6
77.5°	8.3	5.9	2.4	2.4	3.6	3.6	4.8	4.8	3.6	3.6	3.6
80°	4.8	5.9	2.4	3.6	3.6	7.1	8.3	4.8	3.6	3.6	3.6
82.5°	4.8	5.9	7.1	7.1	3.6	5.9	7.1	5.9	4.8	3.6	3.6
85°	4.8	3.6	4.8	5.9	3.6	5.9	5.9	4.8	4.8	3.6	3.6
87.5°	2.4	3.6	3.6	4.8	4.8	4.8	5.9	4.8	4.8	4.8	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	4355.0	4359.8	4284.8	4258.7	4281.3	4276.5	4256.3	4181.3	4173.0	4123.1	4050.5
5°	4162.3	4194.4	4155.2	4223.0	4190.9	4223.0	4320.5	4365.7	4439.5	4484.7	4501.3
7.5°	4027.9	4035.0	4035.0	4041.0	4046.9	4048.1	4041.0	4036.2	4016.0	3991.0	4036.2
10°	3864.9	3873.2	3887.5	3885.1	3884.0	3908.9	3914.9	3966.0	3963.7	3973.2	4007.7
12.5°	3780.5	3716.2	3774.5	3759.1	3780.5	3747.2	3809.0	3798.3	3801.9	3830.4	3904.2
15°	3640.1	3660.3	3674.6	3674.6	3682.9	3675.8	3668.6	3717.4	3747.2	3748.3	3743.6
17.5°	3370.1	3216.6	3373.6	3333.2	3655.6	3663.9	3636.5	3613.9	3613.9	3631.8	3669.8
20°	2893.0	2896.6	2897.8	2913.3	2932.3	2931.1	2932.3	3401.0	3623.4	3572.3	3537.8
22.5°	2536.2	2492.2	2574.2	2568.3	2670.6	2783.6	2891.9	2881.1	2888.3	3219.0	3516.4
25°	2033.0	2090.1	2043.7	2063.9	2179.3	2313.7	2397.0	2614.7	2851.4	2834.8	2912.1
27.5°	1914.0	1898.6	1920.0	1920.0	1935.4	1953.3	1999.7	2122.2	2332.8	2554.0	2763.4
30°	1801.0	1814.1	1816.5	1837.9	1849.8	1861.7	1868.8	1915.2	1962.8	2116.3	2374.4
32.5°	1352.5	1186.0	1560.7	1661.8	1747.5	1767.7	1782.0	1801.0	1835.5	1858.1	1987.8
35°	39.3	39.3	41.6	47.6	60.7	409.2	1558.3	1717.7	1740.3	1768.9	1792.7
37.5°	19.0	14.3	16.7	17.8	21.4	29.7	42.8	133.2	1483.4	1677.3	1703.5
40°	8.3	8.3	8.3	8.3	9.5	11.9	17.8	29.7	45.2	1193.1	1609.5
42.5°	7.1	7.1	7.1	7.1	7.1	7.1	8.3	10.7	21.4	51.2	844.6
45°	4.8	4.8	3.6	4.8	4.8	5.9	7.1	7.1	9.5	32.1	58.3
47.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.9	7.1	21.4	30.9
50°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	16.7	21.4
52.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.1	19.0
55°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	4.8	16.7
57.5°	2.4	2.4	2.4	2.4	2.4	3.6	2.4	2.4	3.6	3.6	15.5
60°	2.4	2.4	2.4	2.4	2.4	3.6	3.6	3.6	3.6	3.6	14.3
62.5°	3.6	3.6	2.4	3.6	2.4	2.4	3.6	3.6	3.6	3.6	9.5
65°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	3.6
67.5°	3.6	3.6	3.6	3.6	2.4	3.6	2.4	3.6	3.6	2.4	2.4
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4
75°	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8	2.4	2.4	2.4
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	5.9	7.1	5.9	5.9	2.4
80°	3.6	3.6	3.6	3.6	3.6	3.6	5.9	5.9	5.9	5.9	8.3
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8	4.8	4.8	5.9
85°	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8	4.8	3.6	4.8
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	4056.4	4016.0	4002.9	3975.6	3973.2	3975.6	3969.6	3961.3	3966.0	3957.7	3950.6
5°	4510.9	4402.6	4332.4	4238.4	4108.8	4080.2	4073.1	4032.7	4018.4	4013.6	3994.6
7.5°	4143.3	4340.8	4459.7	4500.2	4347.9	4312.2	4270.6	4237.3	4205.1	4144.5	4107.6
10°	3980.3	3989.8	4104.0	4237.3	4453.8	4483.5	4506.1	4433.5	4413.3	4258.7	4225.4
12.5°	3942.2	3943.4	3956.5	4037.4	4207.5	4226.6	4306.3	4349.1	4401.4	4431.2	4407.4
15°	3768.6	3864.9	3936.3	3943.4	3958.9	3992.2	4016.0	4164.7	4227.7	4396.7	4387.1
17.5°	3687.7	3718.6	3822.1	3906.6	3892.3	3880.4	3899.4	3919.6	3980.3	4149.2	4146.9
20°	3553.3	3652.0	3707.9	3795.9	3875.6	3879.2	3857.8	3845.9	3822.1	3849.5	3874.4
22.5°	3496.2	3511.6	3616.3	3678.2	3768.6	3800.7	3805.4	3806.6	3793.5	3779.3	3772.1
25°	3490.2	3441.4	3495.0	3572.3	3638.9	3673.4	3712.7	3725.7	3721.0	3721.0	3713.8
27.5°	2856.2	3426.0	3397.4	3448.6	3529.5	3553.3	3573.5	3613.9	3638.9	3656.7	3665.1
30°	2720.6	2822.9	3321.3	3328.4	3410.5	3408.1	3430.7	3464.0	3496.2	3537.8	3548.5
32.5°	2406.5	2657.5	3040.5	3208.3	3293.9	3302.3	3314.1	3323.7	3353.4	3399.8	3440.2
35°	1928.3	2420.8	2605.2	3151.2	3166.6	3183.3	3190.4	3213.0	3222.6	3241.6	3277.3
37.5°	1745.1	2000.9	2499.3	2725.3	3020.3	3034.6	3072.7	3082.2	3097.6	3113.1	3140.5
40°	1639.2	1709.4	2080.6	2433.9	2902.6	2912.1	2925.2	2949.0	2950.1	2968.0	2993.0
42.5°	1554.8	1600.0	1708.2	2324.4	2819.3	2818.1	2787.2	2802.6	2809.8	2828.8	2863.3
45°	1241.9	1501.2	1570.2	1898.6	2244.7	2406.5	2717.0	2665.8	2664.6	2671.8	2708.7
47.5°	63.0	1412.0	1460.8	1566.7	2119.8	2125.8	2166.2	2506.4	2558.8	2542.1	2545.7
50°	42.8	97.5	1360.9	1409.6	1827.2	1974.7	2004.4	2019.9	2216.2	2435.1	2399.4
52.5°	33.3	55.9	833.9	1308.5	1484.6	1592.8	1784.4	1893.8	1905.7	1993.7	2292.3
55°	29.7	42.8	90.4	1207.4	1262.1	1285.9	1397.7	1589.3	1743.9	1790.3	1793.9
57.5°	26.2	39.3	61.9	546.0	1147.9	1152.7	1171.7	1238.3	1377.5	1504.8	1648.7
60°	23.8	34.5	48.8	94.0	1043.3	1055.2	1058.7	1076.6	1093.2	1180.1	1345.4
62.5°	14.3	27.4	42.8	67.8	825.6	948.1	946.9	958.8	974.3	983.8	1017.1
65°	11.9	21.4	36.9	57.1	101.1	126.1	766.1	851.7	861.3	874.3	880.3
67.5°	10.7	19.0	27.4	45.2	76.1	86.8	99.9	123.7	675.7	761.3	773.2
70°	9.5	13.1	22.6	38.1	61.9	66.6	74.9	85.6	101.1	124.9	611.4
72.5°	5.9	9.5	15.5	27.4	47.6	53.5	58.3	65.4	72.6	86.8	99.9
75°	2.4	7.1	13.1	20.2	36.9	40.4	44.0	48.8	54.7	64.2	71.4
77.5°	2.4	5.9	10.7	14.3	23.8	27.4	32.1	35.7	40.4	45.2	52.3
80°	8.3	4.8	7.1	10.7	16.7	17.8	20.2	22.6	26.2	29.7	34.5
82.5°	5.9	7.1	8.3	7.1	8.3	10.7	11.9	14.3	15.5	17.8	19.0
85°	4.8	4.8	5.9	5.9	5.9	5.9	5.9	5.9	7.1	8.3	10.7
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8
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-LD5-65SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	3950.6	3948.2	3941.1	3941.1	3939.9	3944.6	3948.2	3951.8	3950.6	3957.7	3950.6
5°	3980.3	3974.4	3963.7	3954.1	3950.6	3953.0	3949.4	3953.0	3948.2	3954.1	3943.4
7.5°	4062.4	4042.2	4000.5	3983.9	3962.5	3961.3	3950.6	3948.2	3941.1	3941.1	3928.0
10°	4207.5	4110.0	4098.1	4048.1	4030.3	3943.4	3962.5	3930.3	3926.8	3911.3	3905.4
12.5°	4326.5	4250.3	4227.7	4183.7	4133.8	3957.7	3997.0	3928.0	3924.4	3893.5	3861.4
15°	4328.9	4372.9	4311.0	4189.7	4179.0	4057.6	3977.9	3954.1	3923.2	3830.4	3845.9
17.5°	4189.7	4290.8	4320.5	4294.4	4218.2	4136.1	4024.3	3976.7	3884.0	3842.3	3813.8
20°	3963.7	4066.0	4193.2	4201.6	4249.2	4190.9	4044.5	3967.2	3855.4	3782.8	3759.1
22.5°	3784.0	3859.0	4005.3	4073.1	4131.4	4151.6	4058.8	3944.6	3805.4	3735.3	3721.0
25°	3688.9	3705.5	3749.5	3829.2	3957.7	4050.5	4063.6	3942.2	3869.7	3716.2	3635.3
27.5°	3654.4	3640.1	3622.2	3662.7	3759.1	3872.1	3947.0	3967.2	3786.4	3640.1	3559.2
30°	3566.3	3574.7	3547.3	3533.0	3596.1	3712.7	3845.9	3879.2	3740.0	3588.9	3496.2
32.5°	3458.1	3472.4	3477.1	3452.1	3439.1	3519.9	3663.9	3743.6	3736.4	3516.4	3412.9
35°	3322.5	3362.9	3373.6	3374.8	3353.4	3340.3	3423.6	3588.9	3652.0	3483.1	3333.2
37.5°	3179.7	3191.6	3249.9	3265.4	3265.4	3226.1	3288.0	3420.0	3508.1	3408.1	3235.6
40°	3001.3	3039.4	3094.1	3121.4	3148.8	3152.4	3117.9	3210.7	3355.8	3330.8	3144.0
42.5°	2871.6	2896.6	2929.9	2966.8	3022.7	3037.0	3001.3	3017.9	3169.0	3234.4	3025.1
45°	2720.6	2753.9	2763.4	2803.8	2862.1	2903.7	2902.6	2868.1	2989.4	3070.3	2938.2
47.5°	2565.9	2598.0	2614.7	2634.9	2677.7	2731.3	2761.0	2745.5	2769.3	2927.5	2822.9
50°	2406.5	2424.3	2457.7	2480.3	2508.8	2539.7	2611.1	2625.4	2592.1	2718.2	2695.6
52.5°	2255.4	2261.4	2284.0	2306.6	2344.6	2367.2	2424.3	2467.2	2464.8	2501.7	2554.0
55°	2137.7	2111.5	2116.3	2134.1	2159.1	2193.6	2225.7	2292.3	2314.9	2322.0	2405.3
57.5°	1670.2	1939.0	1962.8	1961.6	1991.3	2006.8	2036.5	2080.6	2161.5	2143.6	2236.4
60°	1517.9	1547.6	1772.5	1798.6	1809.3	1823.6	1859.3	1899.7	1959.2	1997.3	2037.7
62.5°	1157.5	1338.3	1406.1	1604.7	1635.7	1644.0	1667.8	1686.8	1748.7	1835.5	1818.9
65°	895.7	973.1	1180.1	1260.9	1429.9	1451.3	1484.6	1504.8	1522.7	1622.6	1627.3
67.5°	774.4	786.3	842.2	998.1	1105.1	1270.5	1290.7	1308.5	1335.9	1407.3	1451.3
70°	661.4	675.7	691.1	704.2	843.4	952.8	1106.3	1112.3	1130.1	1177.7	1277.6
72.5°	124.9	565.0	574.6	582.9	598.4	670.9	817.2	936.2	943.3	965.9	1057.5
75°	84.5	98.7	135.6	466.3	481.8	486.5	511.5	660.2	769.7	774.4	814.9
77.5°	60.7	67.8	82.1	97.5	248.6	373.5	379.5	406.8	519.8	601.9	609.1
80°	41.6	46.4	54.7	61.9	76.1	99.9	276.0	284.3	298.6	411.6	433.0
82.5°	23.8	27.4	32.1	39.3	45.2	57.1	73.8	95.2	193.9	207.0	274.8
85°	11.9	13.1	15.5	19.0	22.6	27.4	36.9	45.2	61.9	111.8	115.4
87.5°	5.9	5.9	5.9	5.9	9.5	10.7	13.1	16.7	21.4	32.1	41.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	3951.8	3968.4	3982.7	3986.3	3986.3	3988.6	3992.2	3994.6	3997.0	3999.3	3997.0
5°	3944.6	3962.5	3974.4	3977.9	3977.9	3985.1	3991.0	3998.2	4001.7	4001.7	3999.3
7.5°	3926.8	3939.9	3955.3	3964.8	3966.0	3977.9	3988.6	3987.4	3992.2	3994.6	4000.5
10°	3903.0	3903.0	3929.2	3936.3	3942.2	3955.3	3958.9	3966.0	3982.7	3985.1	4000.5
12.5°	3891.1	3879.2	3910.1	3913.7	3933.9	3917.3	3938.7	3945.8	3929.2	3951.8	3922.0
15°	3837.6	3851.8	3847.1	3857.8	3893.5	3874.4	3932.7	3913.7	3956.5	3905.4	3995.8
17.5°	3793.5	3791.2	3810.2	3819.7	3826.9	3867.3	3882.8	3904.2	3920.8	3906.6	3942.2
20°	3761.4	3742.4	3756.7	3767.4	3792.4	3823.3	3832.8	3800.7	3856.6	3951.8	3974.4
22.5°	3700.8	3687.7	3704.3	3704.3	3742.4	3737.6	3773.3	3753.1	3805.4	3916.1	4031.5
25°	3618.7	3619.9	3637.7	3659.1	3666.3	3719.8	3738.8	3765.0	3830.4	3962.5	4032.7
27.5°	3535.4	3528.3	3539.0	3583.0	3619.9	3659.1	3665.1	3754.3	3843.5	3933.9	3995.8
30°	3452.1	3445.0	3452.1	3484.3	3528.3	3554.4	3619.9	3738.8	3822.1	3884.0	3942.2
32.5°	3362.9	3355.8	3372.4	3396.2	3473.6	3477.1	3606.8	3718.6	3784.0	3829.2	3818.5
35°	3267.8	3258.2	3273.7	3310.6	3382.0	3408.1	3543.7	3627.0	3700.8	3722.2	3672.2
37.5°	3153.6	3136.9	3155.9	3207.1	3282.0	3358.2	3471.2	3567.5	3606.8	3549.7	3490.2
40°	3034.6	3022.7	3056.0	3082.2	3170.2	3276.1	3405.7	3473.6	3448.6	3383.1	3317.7
42.5°	2928.7	2903.7	2933.5	2983.4	3083.4	3203.5	3308.2	3346.3	3286.8	3190.4	3114.3
45°	2799.1	2769.3	2805.0	2871.6	2978.7	3115.5	3197.6	3184.5	3083.4	3000.1	2895.4
47.5°	2663.5	2627.8	2663.5	2743.2	2863.3	3008.4	3067.9	3008.4	2881.1	2776.5	2692.0
50°	2530.2	2488.6	2523.1	2643.2	2761.0	2872.8	2871.6	2756.2	2680.1	2565.9	2492.2
52.5°	2398.2	2338.7	2373.2	2504.1	2621.8	2749.1	2655.1	2548.1	2456.5	2356.5	2332.8
55°	2235.2	2171.0	2217.4	2407.7	2498.1	2573.0	2423.2	2329.2	2238.8	2188.8	2159.1
57.5°	2080.6	2010.4	2050.8	2275.7	2342.3	2361.3	2223.3	2090.1	2036.5	2019.9	1977.1
60°	1921.2	1841.5	1879.5	2138.9	2185.2	2107.9	1972.3	1868.8	1858.1	1824.8	1791.5
62.5°	1768.9	1680.9	1704.7	1968.7	1990.2	1849.8	1724.9	1697.5	1671.3	1638.0	1620.2
65°	1594.0	1502.4	1535.7	1787.9	1767.7	1586.9	1516.7	1510.8	1476.3	1448.9	1475.1
67.5°	1433.4	1325.2	1371.6	1590.5	1498.9	1351.4	1322.8	1308.5	1281.2	1296.6	1021.8
70°	1257.4	1139.6	1202.7	1377.5	1241.9	1144.4	1133.7	1112.3	1113.4	885.0	745.9
72.5°	1061.1	958.8	1050.4	1144.4	982.6	954.0	938.6	936.2	755.4	613.8	579.3
75°	888.6	785.1	883.9	919.5	782.7	763.7	762.5	630.5	496.1	473.4	462.7
77.5°	693.5	613.8	707.8	654.3	600.7	579.3	519.8	390.2	373.5	358.1	134.4
80°	467.5	473.4	528.2	450.8	428.2	365.2	287.9	276.0	237.9	95.2	74.9
82.5°	284.3	356.9	336.6	281.9	276.0	198.7	182.0	92.8	69.0	54.7	47.6
85°	147.5	180.8	173.7	153.5	114.2	102.3	57.1	44.0	35.7	27.4	22.6
87.5°	50.0	66.6	64.2	51.2	39.3	30.9	20.2	16.7	11.9	9.5	8.3
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	3994.6	3994.6	3992.2	3994.6	3995.8	3993.4	3993.4	3995.8	3997.0	3998.2	4004.1
5°	4000.5	4002.9	4006.5	4013.6	4014.8	4029.1	4035.0	4038.6	4042.2	4043.4	4035.0
7.5°	4013.6	4021.9	4029.1	4027.9	4019.6	3997.0	3989.8	3983.9	3994.6	4021.9	4054.1
10°	4025.5	3987.4	3916.1	4013.6	3983.9	4011.2	4092.1	4110.0	4164.7	4242.0	4264.6
12.5°	3943.4	4048.1	4070.7	3961.3	4163.5	4088.6	4177.8	4256.3	4278.9	4357.4	4309.8
15°	4031.5	4082.6	4117.1	4226.6	4214.7	4278.9	4303.9	4288.4	4292.0	4312.2	4365.7
17.5°	4030.3	4132.6	4155.2	4228.9	4278.9	4280.1	4272.9	4265.8	4284.8	4300.3	4268.2
20°	4099.3	4132.6	4176.6	4206.3	4215.8	4227.7	4250.3	4232.5	4196.8	4162.3	4148.0
22.5°	4064.8	4139.7	4177.8	4182.5	4176.6	4139.7	4106.4	4056.4	4039.8	4021.9	4027.9
25°	4071.9	4106.4	4101.6	4082.6	4057.6	3988.6	3972.0	3950.6	3918.5	3841.1	3770.9
27.5°	4020.8	4002.9	3981.5	3935.1	3889.9	3853.0	3811.4	3742.4	3685.3	3602.0	3571.1
30°	3935.1	3863.7	3811.4	3784.0	3740.0	3678.2	3615.1	3530.7	3458.1	3441.4	3426.0
32.5°	3770.9	3700.8	3657.9	3591.3	3516.4	3442.6	3370.1	3336.8	3321.3	3323.7	3309.4
35°	3603.2	3541.4	3477.1	3377.2	3321.3	3247.5	3221.4	3214.2	3200.0	3184.5	3167.8
37.5°	3424.8	3352.2	3255.9	3196.4	3140.5	3110.7	3097.6	3086.9	3062.0	3034.6	3015.6
40°	3252.3	3121.4	3067.9	3009.6	2993.0	2979.9	2960.8	2934.7	2900.2	2895.4	2887.1
42.5°	3021.5	2927.5	2881.1	2869.2	2849.0	2826.4	2809.8	2781.2	2766.9	2776.5	2783.6
45°	2802.6	2755.1	2739.6	2725.3	2687.2	2655.1	2644.4	2634.9	2646.8	2699.1	2574.2
47.5°	2625.4	2606.4	2587.3	2563.5	2527.8	2504.1	2514.8	2524.3	2535.0	2150.7	1962.8
50°	2471.9	2445.8	2416.0	2389.9	2368.4	2366.1	2422.0	2254.2	1887.9	1878.3	1688.0
52.5°	2304.2	2264.9	2247.1	2231.6	2241.2	2276.8	1884.3	1748.7	1677.3	1457.2	1359.7
55°	2123.4	2088.9	2088.9	2103.2	2052.0	1663.0	1642.8	1420.3	1285.9	1247.9	1232.4
57.5°	1942.6	1939.0	1959.2	1791.5	1509.6	1447.7	1216.9	1168.2	1146.7	1142.0	1117.0
60°	1777.2	1810.5	1515.5	1394.2	1212.2	1093.2	1059.9	1054.0	1031.4	1023.0	1000.4
62.5°	1645.2	1364.4	1270.5	1037.3	976.6	961.2	943.3	935.0	914.8	807.7	236.7
65°	1188.4	1123.0	911.2	872.0	867.2	844.6	837.5	753.0	177.2	119.0	101.1
67.5°	896.9	795.8	768.5	761.3	738.7	693.5	205.8	117.8	101.1	88.0	77.3
70°	688.8	670.9	650.7	634.0	186.8	116.6	101.1	85.6	73.8	65.4	59.5
72.5°	563.9	552.0	321.2	122.5	99.9	84.5	74.9	65.4	57.1	52.3	47.6
75°	441.3	122.5	101.1	84.5	72.6	61.9	54.7	48.8	44.0	40.4	36.9
77.5°	99.9	80.9	69.0	58.3	52.3	46.4	41.6	35.7	32.1	28.5	23.8
80°	61.9	53.5	45.2	41.6	35.7	29.7	26.2	23.8	19.0	17.8	15.5
82.5°	40.4	32.1	28.5	23.8	19.0	17.8	15.5	11.9	10.7	9.5	8.3
85°	17.8	15.5	13.1	10.7	8.3	7.1	5.9	4.8	4.8	4.8	4.8
87.5°	5.9	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	4006.5	4027.9	4048.1	4042.2	4020.8	3987.4	3977.9	3964.8	3974.4	3994.6	4002.9
5°	4035.0	4023.1	4066.0	4129.0	4231.3	4240.8	4312.2	4328.9	4386.0	4421.6	4420.5
7.5°	4075.5	4244.4	4314.6	4390.7	4425.2	4416.9	4427.6	4419.3	4406.2	4400.2	4393.1
10°	4281.3	4409.7	4435.9	4435.9	4382.4	4309.8	4278.9	4225.4	4118.3	4120.7	4102.8
12.5°	4401.4	4446.6	4384.8	4332.4	4117.1	4033.8	3943.4	3900.6	3875.6	3837.6	3851.8
15°	4338.4	4274.1	4237.3	4068.3	3936.3	3786.4	3788.8	3762.6	3735.3	3737.6	3719.8
17.5°	4245.6	4194.4	3932.7	3816.1	3751.9	3693.6	3682.9	3648.4	3630.6	3624.6	3623.4
20°	4118.3	3933.9	3738.8	3710.3	3633.0	3566.3	3555.6	3566.3	3621.1	3523.5	3192.8
22.5°	3969.6	3704.3	3647.2	3566.3	3514.0	3487.8	3553.3	3255.9	2806.2	2860.9	2802.6
25°	3717.4	3602.0	3504.5	3442.6	3436.7	3276.1	2730.1	2673.0	2383.9	2229.3	2055.6
27.5°	3533.0	3483.1	3380.8	3370.1	3292.7	2678.9	2394.6	2080.6	1965.2	1947.3	1909.3
30°	3421.2	3349.8	3288.0	3017.9	2627.8	2156.7	1921.2	1877.1	1856.9	1835.5	1802.2
32.5°	3286.8	3219.0	3248.7	2537.4	2094.8	1856.9	1809.3	1777.2	1740.3	1726.1	1605.9
35°	3150.0	3119.1	2538.5	2132.9	1801.0	1743.9	1708.2	1674.9	1332.3	322.4	109.4
37.5°	3003.7	2996.5	2281.6	1770.1	1686.8	1633.3	1532.2	316.4	74.9	51.2	38.1
40°	2889.5	2282.8	1803.4	1659.5	1591.6	1507.2	211.7	52.3	33.3	20.2	13.1
42.5°	2813.3	2053.2	1614.3	1557.2	1409.6	155.8	53.5	22.6	13.1	10.7	8.3
45°	2168.6	1621.4	1508.4	1448.9	178.4	53.5	30.9	10.7	8.3	7.1	4.8
47.5°	2000.9	1472.7	1406.1	316.4	59.5	28.5	21.4	7.1	4.8	4.8	4.8
50°	1515.5	1360.9	1119.4	77.3	38.1	20.2	15.5	4.8	4.8	4.8	3.6
52.5°	1328.8	1256.2	120.1	51.2	29.7	15.5	9.5	3.6	3.6	3.6	3.6
55°	1214.6	797.0	71.4	39.3	25.0	14.3	5.9	3.6	3.6	3.6	2.4
57.5°	1111.1	107.1	52.3	33.3	22.6	13.1	3.6	3.6	3.6	3.6	2.4
60°	942.1	77.3	42.8	29.7	21.4	11.9	3.6	3.6	3.6	3.6	3.6
62.5°	122.5	60.7	36.9	26.2	15.5	9.5	2.4	3.6	3.6	3.6	3.6
65°	89.2	47.6	33.3	17.8	9.5	3.6	2.4	3.6	3.6	3.6	3.6
67.5°	69.0	39.3	25.0	15.5	8.3	2.4	2.4	3.6	3.6	3.6	3.6
70°	54.7	33.3	20.2	13.1	7.1	2.4	2.4	3.6	3.6	3.6	3.6
72.5°	42.8	23.8	14.3	7.1	4.8	2.4	2.4	3.6	3.6	3.6	3.6
75°	32.1	19.0	10.7	5.9	2.4	2.4	2.4	3.6	3.6	3.6	3.6
77.5°	21.4	11.9	8.3	4.8	4.8	4.8	5.9	5.9	3.6	3.6	3.6
80°	14.3	8.3	5.9	5.9	5.9	4.8	5.9	5.9	3.6	5.9	3.6
82.5°	7.1	5.9	5.9	4.8	4.8	3.6	4.8	4.8	4.8	4.8	3.6
85°	4.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8	3.6
87.5°	2.4	2.4	2.4	2.4	3.6	3.6	3.6	3.6	4.8	4.8	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	3992.2	3995.8	3986.3	4037.4	4011.2	4013.6	4024.3	3997.0	4002.9	3983.9	3970.8
5°	4425.2	4432.3	4439.5	4441.9	4446.6	4452.6	4445.4	4441.9	4434.7	4410.9	4386.0
7.5°	4357.4	4349.1	4345.5	4350.3	4358.6	4362.2	4356.2	4364.5	4395.5	4408.6	4416.9
10°	4000.5	3962.5	3988.6	3985.1	3955.3	4055.3	4027.9	4043.4	4054.1	4163.5	4230.1
12.5°	3830.4	3854.2	3809.0	3786.4	3816.1	3836.4	3856.6	3813.8	3873.2	3845.9	3933.9
15°	3687.7	3673.4	3668.6	3669.8	3663.9	3692.4	3699.6	3709.1	3717.4	3754.3	3768.6
17.5°	3623.4	3647.2	3656.7	3663.9	3652.0	3638.9	3625.8	3606.8	3612.7	3603.2	3630.6
20°	2970.4	2890.7	2885.9	2932.3	2881.1	2909.7	2978.7	3440.2	3424.8	3604.4	3543.7
22.5°	2479.1	2404.1	2339.9	2284.0	2363.7	2397.0	2525.5	2670.6	2906.1	2869.2	3125.0
25°	2024.7	1997.3	1980.6	1972.3	1978.3	1975.9	2004.4	2072.2	2179.3	2431.5	2757.4
27.5°	1893.8	1880.7	1874.8	1855.7	1870.0	1865.3	1887.9	1902.1	1934.2	1959.2	2065.1
30°	1790.3	1774.8	1764.1	1743.9	1758.2	1759.4	1766.5	1803.4	1816.5	1837.9	1871.2
32.5°	654.3	385.4	361.6	343.8	375.9	490.1	860.1	1503.6	1715.4	1732.0	1770.1
35°	64.2	53.5	47.6	47.6	48.8	53.5	71.4	188.0	343.8	1328.8	1663.0
37.5°	25.0	21.4	17.8	16.7	17.8	20.2	27.4	35.7	48.8	101.1	450.8
40°	10.7	9.5	8.3	8.3	8.3	8.3	9.5	11.9	17.8	33.3	52.3
42.5°	7.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	8.3	10.7	21.4
45°	4.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	5.9	9.5
47.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8
50°	3.6	3.6	3.6	3.6	2.4	3.6	2.4	3.6	3.6	3.6	3.6
52.5°	3.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6
55°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6
57.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	2.4
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	2.4
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	3.6	3.6	2.4	3.6	2.4	2.4	3.6	3.6	3.6	2.4	2.4
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.1	7.1	4.8
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.9	7.1	5.9
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.9	5.9	5.9
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8	4.8
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8	4.8
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	3948.2	3947.0	3972.0	3991.0	3983.9	3991.0	3999.3	4000.5	4002.9	3993.4	3989.8
5°	4338.4	4301.5	4230.1	4179.0	4119.5	4011.2	3957.7	3963.7	3964.8	3961.3	3966.0
7.5°	4413.3	4409.7	4384.8	4374.1	4333.6	4256.3	4132.6	4111.2	4058.8	4025.5	3998.2
10°	4225.4	4311.0	4333.6	4371.7	4395.5	4381.2	4276.5	4261.0	4227.7	4189.7	4198.0
12.5°	4021.9	4092.1	4095.7	4302.7	4349.1	4353.8	4313.4	4334.8	4339.6	4253.9	4204.0
15°	3772.1	3805.4	3875.6	4068.3	4208.7	4296.7	4322.9	4334.8	4276.5	4272.9	4252.7
17.5°	3662.7	3684.1	3716.2	3824.5	4037.4	4167.1	4277.7	4269.4	4292.0	4275.3	4224.2
20°	3524.7	3542.5	3599.6	3654.4	3759.1	3931.5	4138.5	4154.0	4183.7	4180.2	4194.4
22.5°	3522.3	3459.3	3468.8	3511.6	3621.1	3775.7	3995.8	4046.9	4066.0	4079.0	4094.5
25°	2794.3	3295.1	3386.7	3414.1	3485.4	3575.9	3835.2	3854.2	3889.9	3948.2	3991.0
27.5°	2420.8	2761.0	3127.4	3317.7	3362.9	3437.9	3592.5	3621.1	3742.4	3756.7	3823.3
30°	1910.5	2173.3	2720.6	3178.5	3253.5	3305.8	3415.3	3472.4	3524.7	3581.8	3652.0
32.5°	1797.4	1839.1	2142.4	2630.1	3213.0	3173.8	3254.7	3289.2	3346.3	3396.2	3447.4
35°	1694.0	1722.5	1786.7	2154.3	2617.1	3065.5	3120.2	3142.9	3175.0	3213.0	3249.9
37.5°	1585.7	1628.5	1672.5	1771.3	2420.8	2979.9	2978.7	3004.9	3023.9	3056.0	3086.9
40°	287.9	1495.3	1566.7	1630.9	1877.1	2376.8	2845.5	2857.4	2870.4	2890.7	2922.8
42.5°	46.4	249.8	1467.9	1529.8	1600.0	2128.1	2784.8	2736.0	2727.7	2742.0	2770.5
45°	23.8	60.7	295.0	1428.7	1491.7	1697.5	2276.8	2651.6	2643.2	2615.9	2621.8
47.5°	17.8	38.1	72.6	493.7	1396.6	1457.2	2100.8	2078.2	2236.4	2539.7	2493.3
50°	15.5	26.2	42.8	101.1	1233.6	1341.8	1617.8	1890.2	1973.5	1984.2	2348.2
52.5°	14.3	17.8	30.9	65.4	259.3	1240.7	1315.7	1410.8	1551.2	1852.2	1845.0
55°	13.1	16.7	26.2	44.0	90.4	1118.2	1195.5	1213.4	1243.1	1387.0	1577.4
57.5°	7.1	15.5	25.0	38.1	67.8	204.6	1084.9	1099.2	1123.0	1128.9	1196.7
60°	3.6	14.3	22.6	33.3	50.0	95.2	975.4	992.1	1006.4	1008.8	1030.2
62.5°	2.4	13.1	19.0	30.9	41.6	67.8	230.8	471.1	895.7	895.7	920.7
65°	2.4	9.5	11.9	20.2	38.1	55.9	97.5	113.0	220.1	541.3	807.7
67.5°	2.4	3.6	10.7	16.7	28.5	42.8	71.4	83.3	99.9	114.2	211.7
70°	2.4	2.4	9.5	10.7	17.8	32.1	51.2	58.3	67.8	77.3	89.2
72.5°	2.4	2.4	8.3	8.3	11.9	21.4	39.3	42.8	48.8	54.7	63.0
75°	5.9	4.8	7.1	7.1	8.3	16.7	29.7	33.3	35.7	40.4	46.4
77.5°	5.9	5.9	5.9	5.9	5.9	10.7	19.0	21.4	25.0	27.4	32.1
80°	4.8	4.8	4.8	5.9	5.9	7.1	11.9	13.1	14.3	17.8	19.0
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	7.1	8.3	10.7
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.8	4.8	4.8
87.5°	3.6	3.6	3.6	2.4	2.4	3.6	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-65SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	3988.6	3981.5	3975.6	3979.1	3968.4	3963.7	3967.2	3968.4	3970.8	3976.7	3977.9
5°	3977.9	3975.6	3986.3	3992.2	3989.8	3992.2	3992.2	3987.4	3980.3	3985.1	3974.4
7.5°	3970.8	3955.3	3943.4	3945.8	3933.9	3948.2	3961.3	3980.3	3986.3	3986.3	3974.4
10°	4093.3	4076.7	4010.1	3964.8	3935.1	3908.9	3970.8	3907.7	3937.5	3824.5	3954.1
12.5°	4194.4	4217.0	4187.3	4063.6	4042.2	3963.7	4008.9	3931.5	3908.9	3779.3	3820.9
15°	4234.9	4192.1	4182.5	4148.0	4101.6	4079.0	3957.7	3944.6	3907.7	3922.0	3867.3
17.5°	4199.2	4220.6	4192.1	4169.5	4121.9	4068.3	3995.8	3931.5	3880.4	3766.2	3862.5
20°	4164.7	4193.2	4107.6	4121.9	4126.6	4064.8	4026.7	3973.2	3908.9	3801.9	3718.6
22.5°	4107.6	4087.4	4094.5	4073.1	4055.3	4063.6	4011.2	3974.4	3866.1	3817.3	3704.3
25°	4014.8	4007.7	4026.7	4024.3	3981.5	3967.2	3941.1	3901.8	3859.0	3780.5	3687.7
27.5°	3863.7	3900.6	3933.9	3949.4	3926.8	3888.7	3874.4	3851.8	3822.1	3742.4	3673.4
30°	3704.3	3746.0	3784.0	3817.3	3837.6	3820.9	3807.8	3794.7	3749.5	3697.2	3619.9
32.5°	3522.3	3577.0	3629.4	3669.8	3713.8	3726.9	3717.4	3706.7	3668.6	3621.1	3559.2
35°	3311.8	3386.7	3462.8	3535.4	3554.4	3585.4	3616.3	3598.5	3578.2	3530.7	3473.6
37.5°	3133.3	3186.9	3241.6	3333.2	3399.8	3439.1	3493.8	3500.9	3466.4	3443.8	3368.9
40°	2949.0	2997.7	3077.4	3131.0	3222.6	3267.8	3326.0	3352.2	3343.9	3330.8	3265.4
42.5°	2803.8	2827.6	2880.0	2927.5	3017.9	3110.7	3161.9	3190.4	3220.2	3209.5	3176.2
45°	2649.2	2670.6	2688.4	2730.1	2818.1	2900.2	2963.2	3006.1	3059.6	3084.6	3044.1
47.5°	2495.7	2501.7	2523.1	2557.6	2609.9	2673.0	2778.8	2843.1	2893.0	2941.8	2915.6
50°	2378.0	2356.5	2360.1	2381.5	2424.3	2486.2	2562.3	2652.7	2709.8	2769.3	2775.3
52.5°	2078.2	2251.9	2210.2	2222.1	2244.7	2274.5	2354.2	2443.4	2513.6	2564.7	2615.9
55°	1743.9	1778.4	2112.7	2065.1	2079.4	2105.5	2142.4	2231.6	2299.4	2370.8	2442.2
57.5°	1352.5	1609.5	1622.6	1931.9	1924.7	1927.1	1958.0	2009.2	2077.0	2166.2	2226.9
60°	1051.6	1159.8	1370.4	1477.4	1748.7	1758.2	1776.0	1805.8	1864.1	1948.5	2044.9
62.5°	927.9	942.1	1017.1	1177.7	1353.7	1566.7	1604.7	1609.5	1635.7	1720.1	1831.9
65°	814.9	824.4	847.0	863.6	1011.1	1216.9	1400.1	1429.9	1446.5	1496.5	1591.6
67.5°	561.5	710.2	730.4	742.3	756.6	851.7	1078.9	1230.0	1249.1	1293.1	1376.3
70°	108.3	224.8	615.0	628.1	635.2	656.6	693.5	933.8	1059.9	1101.5	1139.6
72.5°	73.8	86.8	104.7	247.4	523.4	535.3	543.6	574.6	787.5	908.8	929.1
75°	53.5	59.5	70.2	86.8	107.1	348.5	431.8	447.3	462.7	638.8	741.1
77.5°	38.1	42.8	47.6	55.9	65.4	84.5	121.3	334.3	349.7	358.1	505.6
80°	21.4	26.2	32.1	36.9	41.6	47.6	61.9	77.3	172.5	252.2	265.3
82.5°	11.9	14.3	16.7	20.2	22.6	28.5	34.5	41.6	54.7	80.9	171.3
85°	5.9	5.9	5.9	8.3	9.5	13.1	15.5	17.8	25.0	34.5	47.6
87.5°	3.6	3.6	4.8	4.8	4.8	5.9	5.9	5.9	7.1	10.7	15.5
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-LD5-65SL-RM-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3963.7	3963.7	3963.7	3963.7	3963.7
2.5°	3979.1	3975.6	3975.6	3989.8	3986.3
5°	3972.0	3968.4	3967.2	3982.7	3975.6
7.5°	3966.0	3953.0	3949.4	3963.7	3957.7
10°	3942.2	3932.7	3938.7	3933.9	3931.5
12.5°	3901.8	3895.9	3870.9	3873.2	3893.5
15°	3829.2	3853.0	3810.2	3848.3	3856.6
17.5°	3696.0	3749.5	3791.2	3813.8	3817.3
20°	3755.5	3773.3	3751.9	3753.1	3767.4
22.5°	3678.2	3686.5	3692.4	3685.3	3716.2
25°	3554.4	3522.3	3591.3	3605.6	3655.6
27.5°	3516.4	3490.2	3522.3	3519.9	3561.6
30°	3485.4	3401.0	3415.3	3437.9	3489.0
32.5°	3441.4	3308.2	3293.9	3343.9	3401.0
35°	3364.1	3238.0	3204.7	3236.8	3322.5
37.5°	3298.7	3140.5	3073.9	3116.7	3228.5
40°	3201.1	3064.3	2960.8	2998.9	3131.0
42.5°	3084.6	2998.9	2839.5	2865.7	3016.8
45°	2966.8	2890.7	2721.7	2734.8	2914.5
47.5°	2846.6	2776.5	2599.2	2601.6	2783.6
50°	2728.9	2636.1	2489.8	2448.1	2644.4
52.5°	2575.4	2489.8	2379.1	2311.3	2512.4
55°	2430.3	2333.9	2253.1	2148.4	2362.5
57.5°	2288.7	2181.7	2127.0	1992.5	2192.4
60°	2094.8	2043.7	1962.8	1834.3	2038.9
62.5°	1896.2	1879.5	1797.4	1664.2	1849.8
65°	1664.2	1703.5	1619.0	1504.8	1653.5
67.5°	1445.3	1515.5	1422.7	1352.5	1464.4
70°	1212.2	1293.1	1240.7	1215.7	1263.3
72.5°	982.6	1061.1	1065.9	1048.0	1063.5
75°	758.9	845.8	893.4	866.0	869.6
77.5°	575.8	617.4	669.7	691.1	686.4
80°	355.7	428.2	471.1	515.1	499.6
82.5°	179.6	240.3	292.6	340.2	317.6
85°	74.9	96.4	134.4	177.2	170.1
87.5°	22.6	38.1	40.4	57.1	53.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)