

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-58SL-RM-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-58SL-RM-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

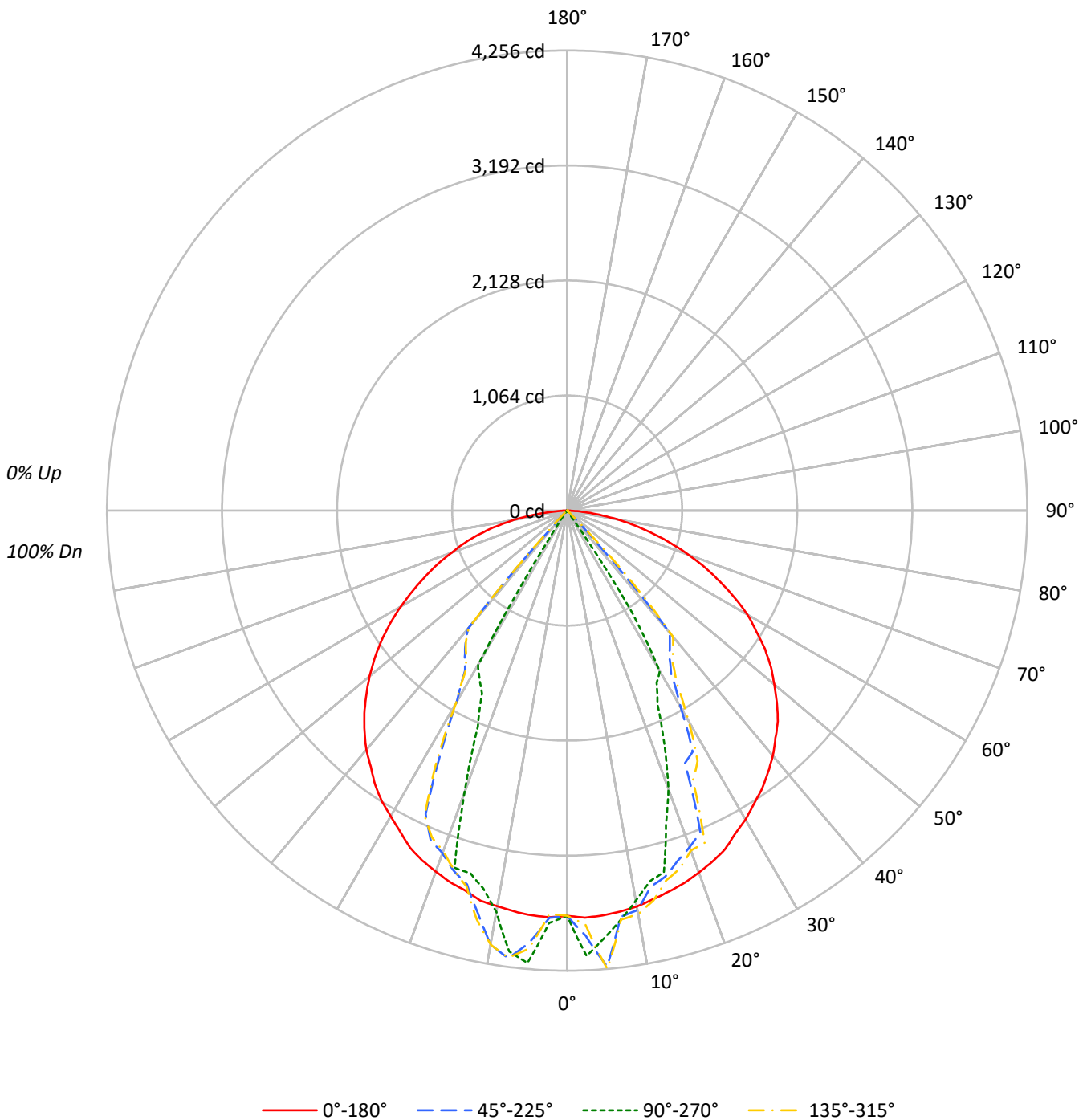
Lumens per Lamp: N/A
Luminaire Lumens: 5329.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 46
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#
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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°	30286	30286	30286	30286
5°	30409	31149	30401	32986
10°	30337	28186	30318	29000
15°	30254	26308	30179	26376
20°	30289	20722	30202	20977
25°	30376	14996	30228	14151
30°	30238	13155	29918	12646
35°	30328	290	29883	352
40°	30431	63	29703	63
45°	30539	37	29392	28
50°	30306	30	28915	30
55°	30127	20	28277	20
60°	29559	22	27247	22
65°	28017	36	26022	23
70°	25991	40	24742	40
75°	22990	44	23367	44
80°	18674	51	19742	51
85°	10985	60	11218	60



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.0	7.1
10°-20°	1025.6	19.2
20°-30°	1305.1	24.5
30°-40°	1102.4	20.7
40°-50°	720.7	13.5
50°-60°	454.1	8.5
60°-70°	241.7	4.5
70°-80°	88.1	1.7
80°-90°	15.2	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2706.7	50.8
0°-40°	3809.1	71.5
0°-60°	4984.0	93.5
0°-90°	5329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5329.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3748	3748	3748	3748	3748	
5°	3759	3966	3758	4200	3759	357
15°	3646	3461	3638	3470	3646	1031
25°	3456	1976	3440	1865	3456	1590
35°	3142	37	3095	45	3142	1965
45°	2756	4	2652	3	2756	2119
55°	2234	2	2097	2	2234	1990
65°	1563	3	1452	2	1563	1548
75°	822	3	836	3	822	873
85°	161	3	164	3	161	203
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°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3769.1	3771.4	3772.5	3774.7	3778.1	3779.2	3781.5	3779.2	3779.2	3779.2	3779.2
5°	3759.0	3763.5	3766.9	3771.4	3779.2	3780.4	3789.4	3790.5	3795.0	3804.0	3810.7
7.5°	3742.1	3746.6	3753.4	3764.6	3775.9	3788.2	3804.0	3820.9	3844.5	3867.0	3895.1
10°	3717.4	3723.0	3730.9	3741.0	3796.1	3804.0	3838.9	3887.2	3900.7	3971.6	4024.4
12.5°	3681.4	3700.5	3720.8	3729.8	3782.6	3865.9	3982.8	3959.2	3933.3	4165.0	4161.7
15°	3646.5	3672.4	3662.3	3735.4	3783.7	3928.8	3879.4	3985.1	4178.5	4131.3	4133.5
17.5°	3609.4	3615.0	3671.3	3732.0	3818.6	3892.8	3953.6	4098.7	4136.9	4140.3	4098.7
20°	3562.2	3589.2	3671.3	3726.4	3872.6	3907.5	4039.1	4113.3	4097.6	4059.3	3988.5
22.5°	3513.8	3595.9	3679.1	3756.7	3859.1	3952.5	4017.7	4052.6	3970.5	3819.7	3738.8
25°	3456.4	3504.8	3613.9	3727.5	3855.7	3909.7	3948.0	3891.7	3784.9	3649.9	3513.8
27.5°	3367.6	3445.2	3584.7	3712.9	3828.7	3894.0	3832.1	3697.1	3525.0	3436.2	3374.3
30°	3299.0	3400.2	3514.9	3638.6	3759.0	3797.2	3639.8	3485.7	3367.6	3278.7	3265.2
32.5°	3215.7	3359.7	3468.8	3586.9	3688.1	3637.5	3484.6	3285.5	3187.6	3153.9	3167.4
35°	3141.5	3250.6	3393.4	3509.3	3582.4	3468.8	3227.0	3103.3	3056.0	3075.1	3050.4
37.5°	3052.6	3196.6	3328.2	3428.3	3403.6	3232.6	3027.9	2949.2	2954.8	2939.0	2891.8
40°	2960.4	3097.6	3234.9	3329.3	3242.7	2981.8	2845.7	2828.8	2832.2	2781.6	2714.1
42.5°	2852.4	2977.3	3114.5	3200.0	3013.3	2809.7	2717.5	2719.7	2690.5	2619.6	2583.6
45°	2755.7	2870.4	3013.3	3021.1	2791.7	2621.9	2594.9	2565.6	2500.4	2476.8	2449.8
47.5°	2632.0	2759.1	2877.2	2834.4	2574.6	2468.9	2448.6	2384.5	2351.9	2333.9	2311.4
50°	2500.4	2628.6	2736.6	2615.1	2369.9	2345.2	2278.8	2228.2	2205.7	2186.6	2166.3
52.5°	2375.5	2481.3	2591.5	2382.3	2212.4	2188.8	2113.5	2084.2	2061.7	2040.3	2035.8
55°	2233.8	2327.2	2402.5	2160.7	2061.7	2006.6	1952.6	1932.4	1911.0	1900.9	1917.7
57.5°	2073.0	2178.7	2167.4	1942.5	1898.6	1818.8	1798.5	1785.0	1769.3	1776.0	1635.4
60°	1927.9	2008.8	1953.7	1782.8	1708.5	1654.5	1636.5	1627.5	1636.5	1499.3	1318.2
62.5°	1749.0	1840.1	1728.8	1596.1	1517.3	1491.5	1475.7	1488.1	1356.5	1205.8	1161.9
65°	1563.4	1662.4	1498.2	1395.8	1346.4	1323.9	1322.7	1218.1	1088.8	1030.3	1030.3
67.5°	1384.6	1487.0	1275.5	1190.0	1170.9	1173.1	1107.9	949.3	913.3	874.0	760.3
70°	1194.5	1284.5	1053.9	1002.2	990.9	983.1	824.5	781.7	739.0	634.4	625.4
72.5°	1005.5	1049.4	847.0	834.6	832.3	691.7	660.2	587.1	537.6	525.3	519.6
75°	822.2	808.7	669.2	680.5	573.6	524.1	473.5	430.8	424.0	419.5	104.6
77.5°	649.0	581.5	527.5	458.9	410.5	348.7	338.6	331.8	218.2	78.7	64.1
80°	472.4	376.8	350.9	298.1	254.2	244.1	249.7	76.5	60.7	50.6	43.9
82.5°	300.3	240.7	196.8	172.1	167.6	73.1	54.0	43.9	38.2	32.6	27.0
85°	160.8	106.9	99.0	83.2	49.5	33.7	28.1	21.4	18.0	14.6	13.5
87.5°	50.6	42.7	34.9	28.1	16.9	11.2	9.0	7.9	6.7	5.6	5.6
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°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3777.0	3779.2	3778.1	3781.5	3781.5	3786.0	3789.4	3792.7	3799.5	3802.9	3828.7
5°	3825.4	3831.0	3847.9	3863.6	3882.7	3888.3	3921.0	3928.8	3967.1	3971.6	4097.6
7.5°	3933.3	3954.7	3995.2	4035.7	4076.2	4102.1	4147.0	4175.2	4205.5	4232.5	4332.6
10°	4063.8	4099.8	4139.2	4179.7	4203.3	4252.8	4279.8	4284.3	4276.4	4232.5	4070.6
12.5°	4192.0	4228.0	4211.2	4219.0	4247.2	4159.4	4171.8	4108.8	4152.7	3935.6	3774.7
15°	4174.0	4171.8	4130.2	3995.2	4017.7	3850.1	3782.6	3730.9	3772.5	3750.0	3725.3
17.5°	4120.1	4017.7	3945.7	3783.7	3715.1	3667.9	3669.0	3670.1	3649.9	3671.3	3608.3
20°	3891.7	3777.0	3670.1	3612.8	3592.5	3558.8	3575.7	3558.8	3559.9	3566.7	3469.9
22.5°	3588.0	3553.2	3491.3	3509.3	3502.6	3532.9	3510.4	3475.6	3486.8	3436.2	3363.1
25°	3465.4	3424.9	3422.7	3429.4	3419.3	3405.8	3385.6	3332.7	3329.3	3313.6	3279.8
27.5°	3341.7	3344.0	3350.7	3330.5	3294.5	3267.5	3237.1	3211.2	3221.4	3203.4	3157.2
30°	3256.2	3255.1	3214.6	3196.6	3130.2	3131.4	3123.5	3107.8	3097.6	3098.8	3069.5
32.5°	3134.7	3099.9	3053.8	3031.3	3025.6	3005.4	2989.7	2993.0	3000.9	2972.8	3003.2
35°	3009.9	2937.9	2931.2	2912.0	2894.0	2880.5	2886.2	2863.7	2862.6	2859.2	2611.7
37.5°	2842.3	2807.4	2804.1	2783.8	2771.4	2768.1	2746.7	2750.1	2760.2	2778.2	2227.1
40°	2704.0	2672.5	2664.6	2663.5	2636.5	2634.2	2639.8	2661.2	2675.8	2563.4	2122.5
42.5°	2555.5	2557.7	2533.0	2517.2	2520.6	2530.7	2557.7	2483.5	2151.7	2050.5	1940.2
45°	2428.4	2417.1	2403.6	2399.1	2428.4	2408.1	2111.2	1948.1	1908.7	1904.2	1594.9
47.5°	2295.7	2292.3	2286.7	2290.0	2123.6	1893.0	1825.5	1804.1	1810.9	1806.4	1370.0
50°	2161.8	2166.3	2166.3	1891.9	1736.7	1698.4	1704.0	1723.2	1603.9	1497.1	1276.6
52.5°	2046.0	2011.1	1723.2	1624.2	1589.3	1606.2	1565.7	1416.1	1308.1	1245.1	1181.0
55°	1831.1	1574.7	1510.6	1494.8	1507.2	1357.6	1265.4	1168.6	1140.5	1133.8	1096.7
57.5°	1440.8	1389.1	1394.7	1331.7	1188.9	1104.5	1067.4	1053.9	1041.5	1032.5	90.0
60°	1274.4	1289.0	1179.9	1044.9	987.6	976.3	967.3	954.9	952.7	936.9	57.4
62.5°	1166.4	1025.8	931.3	897.6	884.1	880.7	863.8	858.2	728.9	100.1	42.7
65°	879.6	822.2	804.2	796.3	781.7	781.7	649.0	102.4	83.2	72.0	38.2
67.5°	717.6	713.1	704.1	694.0	472.4	99.0	86.6	75.4	65.2	57.4	33.7
70°	607.4	605.1	551.1	101.2	84.4	74.2	65.2	58.5	54.0	48.4	30.4
72.5°	498.3	101.2	85.5	74.2	64.1	58.5	52.9	47.2	42.7	39.4	24.7
75°	77.6	68.6	60.7	55.1	50.6	45.0	40.5	37.1	36.0	31.5	16.9
77.5°	56.2	48.4	43.9	39.4	34.9	31.5	27.0	23.6	21.4	18.0	12.4
80°	39.4	34.9	31.5	25.9	22.5	19.1	16.9	14.6	13.5	11.2	5.6
82.5°	22.5	19.1	16.9	13.5	12.4	10.1	9.0	7.9	7.9	5.6	5.6
85°	10.1	10.1	7.9	6.7	5.6	5.6	5.6	4.5	4.5	3.4	3.4
87.5°	4.5	4.5	4.5	4.5	4.5	3.4	3.4	3.4	3.4	3.4	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°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3864.7	3879.4	3907.5	3936.7	3904.1	4021.1	4012.1	4051.4	4072.8	4082.9	4106.6
5°	4208.9	4274.1	4295.5	4231.4	4194.3	4156.0	4069.4	4004.2	4012.1	3990.7	3913.1
7.5°	4202.2	4062.7	3874.9	3789.4	3782.6	3772.5	3799.5	3815.2	3817.5	3816.4	3814.1
10°	3846.7	3774.7	3762.4	3751.1	3755.6	3714.0	3694.9	3640.9	3670.1	3654.4	3660.0
12.5°	3738.8	3721.9	3655.5	3563.3	3618.4	3576.8	3553.2	3568.9	3550.9	3534.0	3528.4
15°	3674.6	3565.5	3528.4	3505.9	3490.2	3481.2	3489.1	3471.1	3465.4	3462.1	3469.9
17.5°	3541.9	3498.1	3457.6	3397.9	3399.1	3395.7	3418.2	3451.9	3454.2	3281.0	3124.6
20°	3437.3	3401.3	3349.6	3312.5	3363.1	3273.1	2925.5	2760.2	2734.3	2734.3	2738.8
22.5°	3354.1	3274.2	3277.6	3219.1	2745.6	2648.8	2651.1	2661.2	2615.1	2457.6	2440.8
25°	3240.5	3228.1	2981.8	2576.9	2580.2	2504.9	2389.0	2225.9	2049.3	2049.3	2020.1
27.5°	3155.0	2892.9	2533.0	2516.1	2263.0	2103.3	2004.3	1854.8	1834.5	1815.4	1817.6
30°	3081.9	2447.5	2456.5	2103.3	1916.6	1783.9	1776.0	1751.3	1738.9	1735.5	1723.2
32.5°	2436.3	2383.4	2056.1	1790.6	1717.5	1696.2	1686.0	1657.9	1656.8	1635.4	1487.0
35°	2284.4	2092.1	1720.9	1648.9	1627.5	1607.3	1590.4	1067.4	126.0	50.6	43.9
37.5°	2111.2	1747.9	1591.6	1558.9	1538.7	1137.1	113.6	39.4	28.1	20.2	18.0
40°	1789.5	1561.2	1511.7	1475.7	608.5	39.4	24.7	19.1	11.2	10.1	9.0
42.5°	1509.4	1471.2	1418.3	431.9	45.0	19.1	12.4	9.0	7.9	7.9	6.7
45°	1412.7	1379.0	571.4	42.7	28.1	9.0	7.9	7.9	6.7	4.5	4.5
47.5°	1322.7	1164.1	51.7	27.0	18.0	7.9	6.7	4.5	4.5	4.5	3.4
50°	1227.1	64.1	36.0	20.2	11.2	4.5	4.5	4.5	4.5	3.4	3.4
52.5°	229.5	45.0	29.2	18.0	5.6	4.5	4.5	4.5	3.4	3.4	3.4
55°	54.0	36.0	27.0	15.7	4.5	4.5	4.5	3.4	3.4	3.4	2.2
57.5°	40.5	27.0	21.4	14.6	4.5	3.4	3.4	3.4	3.4	3.4	2.2
60°	33.7	19.1	16.9	13.5	3.4	3.4	3.4	3.4	3.4	3.4	2.2
62.5°	23.6	15.7	12.4	10.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4
65°	19.1	12.4	10.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	16.9	10.1	6.7	2.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4
70°	13.5	3.4	3.4	2.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	11.2	3.4	2.2	2.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	11.2	5.6	2.2	2.2	3.4	3.4	4.5	4.5	3.4	3.4	3.4
77.5°	7.9	5.6	2.2	2.2	3.4	3.4	4.5	4.5	3.4	3.4	3.4
80°	4.5	5.6	2.2	3.4	3.4	6.7	7.9	4.5	3.4	3.4	3.4
82.5°	4.5	5.6	6.7	6.7	3.4	5.6	6.7	5.6	4.5	3.4	3.4
85°	4.5	3.4	4.5	5.6	3.4	5.6	5.6	4.5	4.5	3.4	3.4
87.5°	2.2	3.4	3.4	4.5	4.5	4.5	5.6	4.5	4.5	4.5	3.4
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-LD5-58SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	4117.8	4122.3	4051.4	4026.7	4048.1	4043.6	4024.4	3953.6	3945.7	3898.5	3829.9
5°	3935.6	3966.0	3928.8	3993.0	3962.6	3993.0	4085.2	4127.9	4197.7	4240.4	4256.1
7.5°	3808.5	3815.2	3815.2	3820.9	3826.5	3827.6	3820.9	3816.4	3797.2	3773.6	3816.4
10°	3654.4	3662.3	3675.8	3673.5	3672.4	3696.0	3701.6	3750.0	3747.8	3756.7	3789.4
12.5°	3574.5	3513.8	3568.9	3554.3	3574.5	3543.0	3601.5	3591.4	3594.8	3621.8	3691.5
15°	3441.8	3460.9	3474.4	3474.4	3482.3	3475.6	3468.8	3514.9	3543.0	3544.2	3539.7
17.5°	3186.5	3041.4	3189.9	3151.6	3456.4	3464.3	3438.4	3417.1	3417.1	3433.9	3469.9
20°	2735.5	2738.8	2740.0	2754.6	2772.6	2771.4	2772.6	3215.7	3426.1	3377.7	3345.1
22.5°	2398.0	2356.4	2434.0	2428.4	2525.1	2632.0	2734.3	2724.2	2731.0	3043.6	3324.8
25°	1922.2	1976.2	1932.4	1951.5	2060.6	2187.7	2266.4	2472.3	2696.1	2680.3	2753.5
27.5°	1809.8	1795.1	1815.4	1815.4	1830.0	1846.9	1890.7	2006.6	2205.7	2414.9	2612.9
30°	1702.9	1715.3	1717.5	1737.8	1749.0	1760.3	1767.0	1810.9	1855.9	2001.0	2245.1
32.5°	1278.9	1121.4	1475.7	1571.3	1652.3	1671.4	1684.9	1702.9	1735.5	1756.9	1879.5
35°	37.1	37.1	39.4	45.0	57.4	386.9	1473.5	1624.2	1645.5	1672.5	1695.0
37.5°	18.0	13.5	15.7	16.9	20.2	28.1	40.5	126.0	1402.6	1585.9	1610.7
40°	7.9	7.9	7.9	7.9	9.0	11.2	16.9	28.1	42.7	1128.1	1521.8
42.5°	6.7	6.7	6.7	6.7	6.7	6.7	7.9	10.1	20.2	48.4	798.6
45°	4.5	4.5	3.4	4.5	4.5	5.6	6.7	6.7	9.0	30.4	55.1
47.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.6	6.7	20.2	29.2
50°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	15.7	20.2
52.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	6.7	18.0
55°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.4	3.4	4.5	15.7
57.5°	2.2	2.2	2.2	2.2	2.2	3.4	2.2	2.2	3.4	3.4	14.6
60°	2.2	2.2	2.2	2.2	2.2	3.4	3.4	3.4	3.4	3.4	13.5
62.5°	3.4	3.4	2.2	3.4	2.2	2.2	3.4	3.4	3.4	3.4	9.0
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.2	3.4
67.5°	3.4	3.4	3.4	3.4	2.2	3.4	2.2	3.4	3.4	2.2	2.2
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.2	2.2	2.2	2.2
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.2	2.2	2.2	2.2
75°	3.4	3.4	3.4	3.4	3.4	3.4	4.5	4.5	2.2	2.2	2.2
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	5.6	6.7	5.6	5.6	2.2
80°	3.4	3.4	3.4	3.4	3.4	3.4	5.6	5.6	5.6	5.6	7.9
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	4.5	4.5	4.5	4.5	5.6
85°	3.4	3.4	3.4	3.4	3.4	3.4	4.5	4.5	4.5	3.4	4.5
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	3.4	3.4	3.4
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-LD5-58SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3835.5	3797.2	3784.9	3759.0	3756.7	3759.0	3753.4	3745.5	3750.0	3742.1	3735.4
5°	4265.1	4162.8	4096.4	4007.6	3885.0	3858.0	3851.2	3813.0	3799.5	3795.0	3777.0
7.5°	3917.6	4104.3	4216.8	4255.0	4111.1	4077.3	4037.9	4006.4	3976.1	3918.7	3883.8
10°	3763.5	3772.5	3880.5	4006.4	4211.2	4239.3	4260.6	4192.0	4172.9	4026.7	3995.2
12.5°	3727.5	3728.6	3741.0	3817.5	3978.3	3996.3	4071.7	4112.2	4161.7	4189.8	4167.3
15°	3563.3	3654.4	3721.9	3728.6	3743.3	3774.7	3797.2	3937.8	3997.5	4157.2	4148.2
17.5°	3486.8	3516.0	3613.9	3693.8	3680.3	3669.0	3687.0	3706.1	3763.5	3923.2	3921.0
20°	3359.7	3453.1	3505.9	3589.2	3664.5	3667.9	3647.6	3636.4	3613.9	3639.8	3663.4
22.5°	3305.7	3320.3	3419.3	3477.8	3563.3	3593.7	3598.2	3599.3	3586.9	3573.4	3566.7
25°	3300.1	3254.0	3304.6	3377.7	3440.7	3473.3	3510.4	3522.8	3518.3	3518.3	3511.5
27.5°	2700.6	3239.4	3212.4	3260.7	3337.2	3359.7	3378.8	3417.1	3440.7	3457.6	3465.4
30°	2572.4	2669.1	3140.4	3147.1	3224.7	3222.5	3243.9	3275.3	3305.7	3345.1	3355.2
32.5°	2275.4	2512.7	2874.9	3033.5	3114.5	3122.4	3133.6	3142.6	3170.7	3214.6	3252.9
35°	1823.3	2288.9	2463.3	2979.5	2994.2	3009.9	3016.6	3038.0	3047.0	3065.0	3098.8
37.5°	1650.0	1891.9	2363.2	2576.9	2855.8	2869.3	2905.3	2914.3	2928.9	2943.5	2969.4
40°	1549.9	1616.3	1967.2	2301.3	2744.5	2753.5	2765.8	2788.3	2789.4	2806.3	2829.9
42.5°	1470.1	1512.8	1615.2	2197.8	2665.7	2664.6	2635.3	2650.0	2656.7	2674.7	2707.3
45°	1174.3	1419.5	1484.7	1795.1	2122.5	2275.4	2569.0	2520.6	2519.5	2526.2	2561.1
47.5°	59.6	1335.1	1381.2	1481.3	2004.3	2010.0	2048.2	2369.9	2419.4	2403.6	2407.0
50°	40.5	92.2	1286.7	1332.9	1727.7	1867.1	1895.2	1909.9	2095.5	2302.4	2268.7
52.5°	31.5	52.9	788.5	1237.3	1403.7	1506.1	1687.2	1790.6	1801.9	1885.1	2167.4
55°	28.1	40.5	85.5	1141.6	1193.4	1215.9	1321.6	1502.7	1648.9	1692.8	1696.2
57.5°	24.7	37.1	58.5	516.3	1085.4	1089.9	1107.9	1170.9	1302.5	1422.8	1558.9
60°	22.5	32.6	46.1	88.9	986.4	997.7	1001.1	1017.9	1033.7	1115.8	1272.1
62.5°	13.5	25.9	40.5	64.1	780.6	896.4	895.3	906.6	921.2	930.2	961.7
65°	11.2	20.2	34.9	54.0	95.6	119.2	724.4	805.3	814.3	826.7	832.3
67.5°	10.1	18.0	25.9	42.7	72.0	82.1	94.5	117.0	638.9	719.9	731.1
70°	9.0	12.4	21.4	36.0	58.5	63.0	70.9	81.0	95.6	118.1	578.1
72.5°	5.6	9.0	14.6	25.9	45.0	50.6	55.1	61.9	68.6	82.1	94.5
75°	2.2	6.7	12.4	19.1	34.9	38.2	41.6	46.1	51.7	60.7	67.5
77.5°	2.2	5.6	10.1	13.5	22.5	25.9	30.4	33.7	38.2	42.7	49.5
80°	7.9	4.5	6.7	10.1	15.7	16.9	19.1	21.4	24.7	28.1	32.6
82.5°	5.6	6.7	7.9	6.7	7.9	10.1	11.2	13.5	14.6	16.9	18.0
85°	4.5	4.5	5.6	5.6	5.6	5.6	5.6	5.6	6.7	7.9	10.1
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	4.5
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-LD5-58SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3735.4	3733.1	3726.4	3726.4	3725.3	3729.8	3733.1	3736.5	3735.4	3742.1	3735.4
5°	3763.5	3757.9	3747.8	3738.8	3735.4	3737.6	3734.3	3737.6	3733.1	3738.8	3728.6
7.5°	3841.1	3822.0	3782.6	3766.9	3746.6	3745.5	3735.4	3733.1	3726.4	3726.4	3714.0
10°	3978.3	3886.1	3874.9	3827.6	3810.7	3728.6	3746.6	3716.3	3712.9	3698.3	3692.6
12.5°	4090.8	4018.8	3997.5	3955.8	3908.6	3742.1	3779.2	3714.0	3710.6	3681.4	3651.0
15°	4093.1	4134.7	4076.2	3961.5	3951.3	3836.6	3761.2	3738.8	3709.5	3621.8	3636.4
17.5°	3961.5	4057.1	4085.2	4060.4	3988.5	3910.8	3805.1	3760.1	3672.4	3633.0	3606.0
20°	3747.8	3844.5	3964.8	3972.7	4017.7	3962.6	3824.2	3751.1	3645.4	3576.8	3554.3
22.5°	3577.9	3648.8	3787.1	3851.2	3906.3	3925.5	3837.7	3729.8	3598.2	3531.8	3518.3
25°	3487.9	3503.7	3545.3	3620.7	3742.1	3829.9	3842.2	3727.5	3658.9	3513.8	3437.3
27.5°	3455.3	3441.8	3424.9	3463.2	3554.3	3661.1	3732.0	3751.1	3580.2	3441.8	3365.3
30°	3372.1	3379.9	3354.1	3340.6	3400.2	3510.4	3636.4	3667.9	3536.3	3393.4	3305.7
32.5°	3269.7	3283.2	3287.7	3264.1	3251.7	3328.2	3464.3	3539.7	3532.9	3324.8	3227.0
35°	3141.5	3179.7	3189.9	3191.0	3170.7	3158.4	3237.1	3393.4	3453.1	3293.3	3151.6
37.5°	3006.5	3017.8	3072.9	3087.5	3087.5	3050.4	3108.9	3233.7	3317.0	3222.5	3059.4
40°	2837.8	2873.8	2925.5	2951.4	2977.3	2980.7	2948.0	3035.8	3173.0	3149.4	2972.8
42.5°	2715.2	2738.8	2770.3	2805.2	2858.1	2871.6	2837.8	2853.6	2996.4	3058.3	2860.3
45°	2572.4	2603.9	2612.9	2651.1	2706.2	2745.6	2744.5	2711.8	2826.6	2903.0	2778.2
47.5°	2426.1	2456.5	2472.3	2491.4	2531.9	2582.5	2610.6	2596.0	2618.5	2768.1	2669.1
50°	2275.4	2292.3	2323.8	2345.2	2372.2	2401.4	2468.9	2482.4	2450.9	2570.1	2548.7
52.5°	2132.6	2138.2	2159.6	2180.9	2216.9	2238.3	2292.3	2332.8	2330.5	2365.4	2414.9
55°	2021.2	1996.5	2001.0	2017.8	2041.5	2074.1	2104.5	2167.4	2188.8	2195.6	2274.3
57.5°	1579.2	1833.4	1855.9	1854.8	1882.9	1897.5	1925.6	1967.2	2043.7	2026.8	2114.6
60°	1435.2	1463.3	1675.9	1700.7	1710.8	1724.3	1758.0	1796.3	1852.5	1888.5	1926.7
62.5°	1094.4	1265.4	1329.5	1517.3	1546.6	1554.4	1576.9	1594.9	1653.4	1735.5	1719.8
65°	847.0	920.1	1115.8	1192.3	1352.0	1372.2	1403.7	1422.8	1439.7	1534.2	1538.7
67.5°	732.2	743.5	796.3	943.7	1044.9	1201.3	1220.4	1237.3	1263.1	1330.6	1372.2
70°	625.4	638.9	653.5	665.9	797.5	900.9	1046.0	1051.7	1068.5	1113.5	1208.0
72.5°	118.1	534.3	543.3	551.1	565.8	634.4	772.7	885.2	891.9	913.3	999.9
75°	79.9	93.4	128.2	440.9	455.5	460.0	483.7	624.3	727.7	732.2	770.5
77.5°	57.4	64.1	77.6	92.2	235.1	353.2	358.8	384.7	491.5	569.1	575.9
80°	39.4	43.9	51.7	58.5	72.0	94.5	260.9	268.8	282.3	389.2	409.4
82.5°	22.5	25.9	30.4	37.1	42.7	54.0	69.7	90.0	183.3	195.7	259.8
85°	11.2	12.4	14.6	18.0	21.4	25.9	34.9	42.7	58.5	105.7	109.1
87.5°	5.6	5.6	5.6	5.6	9.0	10.1	12.4	15.7	20.2	30.4	39.4
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-LD5-58SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3736.5	3752.3	3765.7	3769.1	3769.1	3771.4	3774.7	3777.0	3779.2	3781.5	3779.2
5°	3729.8	3746.6	3757.9	3761.2	3761.2	3768.0	3773.6	3780.4	3783.7	3783.7	3781.5
7.5°	3712.9	3725.3	3739.9	3748.9	3750.0	3761.2	3771.4	3770.2	3774.7	3777.0	3782.6
10°	3690.4	3690.4	3715.1	3721.9	3727.5	3739.9	3743.3	3750.0	3765.7	3768.0	3782.6
12.5°	3679.1	3667.9	3697.1	3700.5	3719.6	3703.9	3724.1	3730.9	3715.1	3736.5	3708.4
15°	3628.5	3642.0	3637.5	3647.6	3681.4	3663.4	3718.5	3700.5	3741.0	3692.6	3778.1
17.5°	3586.9	3584.7	3602.7	3611.7	3618.4	3656.6	3671.3	3691.5	3707.3	3693.8	3727.5
20°	3556.5	3538.5	3552.0	3562.2	3585.8	3615.0	3624.0	3593.7	3646.5	3736.5	3757.9
22.5°	3499.2	3486.8	3502.6	3502.6	3538.5	3534.0	3567.8	3548.7	3598.2	3702.8	3811.9
25°	3421.6	3422.7	3439.6	3459.8	3466.6	3517.2	3535.2	3559.9	3621.8	3746.6	3813.0
27.5°	3342.8	3336.1	3346.2	3387.8	3422.7	3459.8	3465.4	3549.8	3634.1	3719.6	3778.1
30°	3264.1	3257.3	3264.1	3294.5	3336.1	3360.8	3422.7	3535.2	3613.9	3672.4	3727.5
32.5°	3179.7	3173.0	3188.7	3211.2	3284.3	3287.7	3410.3	3516.0	3577.9	3620.7	3610.5
35°	3089.8	3080.8	3095.4	3130.2	3197.7	3222.5	3350.7	3429.4	3499.2	3519.4	3472.2
37.5°	2981.8	2966.0	2984.0	3032.4	3103.3	3175.2	3282.1	3373.2	3410.3	3356.3	3300.1
40°	2869.3	2858.1	2889.5	2914.3	2997.5	3097.6	3220.2	3284.3	3260.7	3198.9	3137.0
42.5°	2769.2	2745.6	2773.7	2820.9	2915.4	3029.0	3128.0	3164.0	3107.8	3016.6	2944.7
45°	2646.6	2618.5	2652.2	2715.2	2816.4	2945.8	3023.4	3011.0	2915.4	2836.7	2737.7
47.5°	2518.4	2484.6	2518.4	2593.7	2707.3	2844.6	2900.8	2844.6	2724.2	2625.2	2545.4
50°	2392.4	2353.0	2385.6	2499.3	2610.6	2716.3	2715.2	2606.1	2534.1	2426.1	2356.4
52.5°	2267.5	2211.3	2243.9	2367.7	2479.0	2599.4	2510.5	2409.3	2322.7	2228.2	2205.7
55°	2113.5	2052.7	2096.6	2276.5	2362.0	2432.9	2291.2	2202.3	2116.8	2069.6	2041.5
57.5°	1967.2	1900.9	1939.1	2151.7	2214.7	2232.7	2102.2	1976.2	1925.6	1909.9	1869.4
60°	1816.5	1741.2	1777.1	2022.3	2066.2	1993.1	1864.9	1767.0	1756.9	1725.4	1693.9
62.5°	1672.5	1589.3	1611.8	1861.5	1881.7	1749.0	1630.9	1605.1	1580.3	1548.8	1531.9
65°	1507.2	1420.6	1452.1	1690.5	1671.4	1500.5	1434.1	1428.5	1395.8	1370.0	1394.7
67.5°	1355.4	1253.0	1296.9	1503.8	1417.2	1277.7	1250.8	1237.3	1211.4	1226.0	966.2
70°	1188.9	1077.5	1137.1	1302.5	1174.3	1082.0	1071.9	1051.7	1052.8	836.8	705.2
72.5°	1003.3	906.6	993.2	1082.0	929.1	902.1	887.4	885.2	714.2	580.4	547.8
75°	840.2	742.4	835.7	869.5	740.1	722.1	721.0	596.1	469.0	447.7	437.5
77.5°	655.7	580.4	669.2	618.6	568.0	547.8	491.5	368.9	353.2	338.6	127.1
80°	442.0	447.7	499.4	426.3	404.9	345.3	272.2	260.9	225.0	90.0	70.9
82.5°	268.8	337.4	318.3	266.6	260.9	187.8	172.1	87.7	65.2	51.7	45.0
85°	139.5	171.0	164.2	145.1	108.0	96.7	54.0	41.6	33.7	25.9	21.4
87.5°	47.2	63.0	60.7	48.4	37.1	29.2	19.1	15.7	11.2	9.0	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3777.0	3777.0	3774.7	3777.0	3778.1	3775.9	3775.9	3778.1	3779.2	3780.4	3786.0
5°	3782.6	3784.9	3788.2	3795.0	3796.1	3809.6	3815.2	3818.6	3822.0	3823.1	3815.2
7.5°	3795.0	3802.9	3809.6	3808.5	3800.6	3779.2	3772.5	3766.9	3777.0	3802.9	3833.2
10°	3806.2	3770.2	3702.8	3795.0	3766.9	3792.7	3869.2	3886.1	3937.8	4010.9	4032.3
12.5°	3728.6	3827.6	3849.0	3745.5	3936.7	3865.9	3950.2	4024.4	4045.8	4120.1	4075.1
15°	3811.9	3860.2	3892.8	3996.3	3985.1	4045.8	4069.4	4054.8	4058.2	4077.3	4127.9
17.5°	3810.7	3907.5	3928.8	3998.6	4045.8	4046.9	4040.2	4033.4	4051.4	4066.1	4035.7
20°	3876.0	3907.5	3949.1	3977.2	3986.2	3997.5	4018.8	4002.0	3968.2	3935.6	3922.1
22.5°	3843.4	3914.2	3950.2	3954.7	3949.1	3914.2	3882.7	3835.5	3819.7	3802.9	3808.5
25°	3850.1	3882.7	3878.2	3860.2	3836.6	3771.4	3755.6	3735.4	3705.0	3631.9	3565.5
27.5°	3801.7	3784.9	3764.6	3720.8	3678.0	3643.1	3603.8	3538.5	3484.6	3405.8	3376.6
30°	3720.8	3653.3	3603.8	3577.9	3536.3	3477.8	3418.2	3338.3	3269.7	3254.0	3239.4
32.5°	3565.5	3499.2	3458.7	3395.7	3324.8	3255.1	3186.5	3155.0	3140.4	3142.6	3129.1
35°	3406.9	3348.5	3287.7	3193.2	3140.4	3070.6	3045.9	3039.1	3025.6	3011.0	2995.3
37.5°	3238.2	3169.6	3078.5	3022.3	2969.4	2941.3	2928.9	2918.8	2895.2	2869.3	2851.3
40°	3075.1	2951.4	2900.8	2845.7	2829.9	2817.6	2799.6	2774.8	2742.2	2737.7	2729.8
42.5°	2856.9	2768.1	2724.2	2713.0	2693.8	2672.5	2656.7	2629.7	2616.2	2625.2	2632.0
45°	2650.0	2605.0	2590.4	2576.9	2540.9	2510.5	2500.4	2491.4	2502.6	2552.1	2434.0
47.5°	2482.4	2464.4	2446.4	2423.9	2390.1	2367.7	2377.8	2386.8	2396.9	2033.6	1855.9
50°	2337.3	2312.5	2284.4	2259.7	2239.4	2237.2	2290.0	2131.4	1785.0	1776.0	1596.1
52.5°	2178.7	2141.6	2124.7	2110.1	2119.1	2152.8	1781.6	1653.4	1585.9	1377.8	1285.6
55°	2007.7	1975.1	1975.1	1988.6	1940.2	1572.4	1553.3	1343.0	1215.9	1179.9	1165.3
57.5°	1836.8	1833.4	1852.5	1693.9	1427.3	1368.9	1150.6	1104.5	1084.3	1079.8	1056.2
60°	1680.4	1711.9	1433.0	1318.2	1146.1	1033.7	1002.2	996.6	975.2	967.3	945.9
62.5°	1555.6	1290.1	1201.3	980.8	923.4	908.8	891.9	884.1	865.0	763.7	223.8
65°	1123.7	1061.8	861.6	824.5	820.0	798.6	791.8	712.0	167.6	112.5	95.6
67.5°	848.1	752.5	726.6	719.9	698.5	655.7	194.6	111.4	95.6	83.2	73.1
70°	651.2	634.4	615.3	599.5	176.6	110.2	95.6	81.0	69.7	61.9	56.2
72.5°	533.1	521.9	303.7	115.9	94.5	79.9	70.9	61.9	54.0	49.5	45.0
75°	417.3	115.9	95.6	79.9	68.6	58.5	51.7	46.1	41.6	38.2	34.9
77.5°	94.5	76.5	65.2	55.1	49.5	43.9	39.4	33.7	30.4	27.0	22.5
80°	58.5	50.6	42.7	39.4	33.7	28.1	24.7	22.5	18.0	16.9	14.6
82.5°	38.2	30.4	27.0	22.5	18.0	16.9	14.6	11.2	10.1	9.0	7.9
85°	16.9	14.6	12.4	10.1	7.9	6.7	5.6	4.5	4.5	4.5	4.5
87.5°	5.6	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	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-LD5-58SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3788.2	3808.5	3827.6	3822.0	3801.7	3770.2	3761.2	3748.9	3757.9	3777.0	3784.9
5°	3815.2	3804.0	3844.5	3904.1	4000.8	4009.8	4077.3	4093.1	4147.0	4180.8	4179.7
7.5°	3853.5	4013.2	4079.6	4151.5	4184.2	4176.3	4186.4	4178.5	4166.2	4160.5	4153.8
10°	4048.1	4169.5	4194.3	4194.3	4143.7	4075.1	4045.8	3995.2	3894.0	3896.2	3879.4
12.5°	4161.7	4204.4	4145.9	4096.4	3892.8	3814.1	3728.6	3688.1	3664.5	3628.5	3642.0
15°	4102.1	4041.3	4006.4	3846.7	3721.9	3580.2	3582.4	3557.7	3531.8	3534.0	3517.2
17.5°	4014.3	3966.0	3718.5	3608.3	3547.5	3492.4	3482.3	3449.7	3432.8	3427.2	3426.1
20°	3894.0	3719.6	3535.2	3508.2	3435.1	3372.1	3362.0	3372.1	3423.8	3331.6	3018.9
22.5°	3753.4	3502.6	3448.6	3372.1	3322.6	3297.8	3359.7	3078.5	2653.3	2705.1	2650.0
25°	3514.9	3405.8	3313.6	3255.1	3249.5	3097.6	2581.4	2527.4	2254.0	2107.8	1943.6
27.5°	3340.6	3293.3	3196.6	3186.5	3113.4	2533.0	2264.2	1967.2	1858.1	1841.3	1805.3
30°	3234.9	3167.4	3108.9	2853.6	2484.6	2039.2	1816.5	1774.9	1755.8	1735.5	1704.0
32.5°	3107.8	3043.6	3071.8	2399.1	1980.7	1755.8	1710.8	1680.4	1645.5	1632.0	1518.4
35°	2978.4	2949.2	2400.3	2016.7	1702.9	1648.9	1615.2	1583.7	1259.7	304.8	103.5
37.5°	2840.1	2833.3	2157.3	1673.7	1594.9	1544.3	1448.7	299.2	70.9	48.4	36.0
40°	2732.1	2158.4	1705.2	1569.1	1504.9	1425.1	200.2	49.5	31.5	19.1	12.4
42.5°	2660.1	1941.4	1526.3	1472.3	1332.9	147.3	50.6	21.4	12.4	10.1	7.9
45°	2050.5	1533.1	1426.2	1370.0	168.7	50.6	29.2	10.1	7.9	6.7	4.5
47.5°	1891.9	1392.5	1329.5	299.2	56.2	27.0	20.2	6.7	4.5	4.5	4.5
50°	1433.0	1286.7	1058.4	73.1	36.0	19.1	14.6	4.5	4.5	4.5	3.4
52.5°	1256.4	1187.8	113.6	48.4	28.1	14.6	9.0	3.4	3.4	3.4	3.4
55°	1148.4	753.6	67.5	37.1	23.6	13.5	5.6	3.4	3.4	3.4	2.2
57.5°	1050.5	101.2	49.5	31.5	21.4	12.4	3.4	3.4	3.4	3.4	2.2
60°	890.8	73.1	40.5	28.1	20.2	11.2	3.4	3.4	3.4	3.4	3.4
62.5°	115.9	57.4	34.9	24.7	14.6	9.0	2.2	3.4	3.4	3.4	3.4
65°	84.4	45.0	31.5	16.9	9.0	3.4	2.2	3.4	3.4	3.4	3.4
67.5°	65.2	37.1	23.6	14.6	7.9	2.2	2.2	3.4	3.4	3.4	3.4
70°	51.7	31.5	19.1	12.4	6.7	2.2	2.2	3.4	3.4	3.4	3.4
72.5°	40.5	22.5	13.5	6.7	4.5	2.2	2.2	3.4	3.4	3.4	3.4
75°	30.4	18.0	10.1	5.6	2.2	2.2	2.2	3.4	3.4	3.4	3.4
77.5°	20.2	11.2	7.9	4.5	4.5	4.5	5.6	5.6	3.4	3.4	3.4
80°	13.5	7.9	5.6	5.6	5.6	4.5	5.6	5.6	3.4	5.6	3.4
82.5°	6.7	5.6	5.6	4.5	4.5	3.4	4.5	4.5	4.5	4.5	3.4
85°	4.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	4.5	3.4
87.5°	2.2	2.2	2.2	2.2	3.4	3.4	3.4	3.4	4.5	4.5	3.4
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-LD5-58SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3774.7	3778.1	3769.1	3817.5	3792.7	3795.0	3805.1	3779.2	3784.9	3766.9	3754.5
5°	4184.2	4190.9	4197.7	4199.9	4204.4	4210.0	4203.3	4199.9	4193.2	4170.7	4147.0
7.5°	4120.1	4112.2	4108.8	4113.3	4121.2	4124.6	4118.9	4126.8	4156.0	4168.4	4176.3
10°	3782.6	3746.6	3771.4	3768.0	3739.9	3834.4	3808.5	3823.1	3833.2	3936.7	3999.7
12.5°	3621.8	3644.3	3601.5	3580.2	3608.3	3627.4	3646.5	3606.0	3662.3	3636.4	3719.6
15°	3486.8	3473.3	3468.8	3469.9	3464.3	3491.3	3498.1	3507.0	3514.9	3549.8	3563.3
17.5°	3426.1	3448.6	3457.6	3464.3	3453.1	3440.7	3428.3	3410.3	3415.9	3406.9	3432.8
20°	2808.6	2733.2	2728.7	2772.6	2724.2	2751.2	2816.4	3252.9	3238.2	3408.1	3350.7
22.5°	2344.0	2273.2	2212.4	2159.6	2234.9	2266.4	2387.9	2525.1	2747.8	2713.0	2954.8
25°	1914.4	1888.5	1872.8	1864.9	1870.5	1868.3	1895.2	1959.4	2060.6	2299.0	2607.2
27.5°	1790.6	1778.3	1772.6	1754.6	1768.1	1763.6	1785.0	1798.5	1828.9	1852.5	1952.6
30°	1692.8	1678.2	1668.0	1648.9	1662.4	1663.5	1670.3	1705.2	1717.5	1737.8	1769.3
32.5°	618.6	364.4	341.9	325.1	355.4	463.4	813.2	1421.7	1621.9	1637.7	1673.7
35°	60.7	50.6	45.0	45.0	46.1	50.6	67.5	177.7	325.1	1256.4	1572.4
37.5°	23.6	20.2	16.9	15.7	16.9	19.1	25.9	33.7	46.1	95.6	426.3
40°	10.1	9.0	7.9	7.9	7.9	7.9	9.0	11.2	16.9	31.5	49.5
42.5°	6.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.9	10.1	20.2
45°	4.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	5.6	9.0
47.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5
50°	3.4	3.4	3.4	3.4	2.2	3.4	2.2	3.4	3.4	3.4	3.4
52.5°	3.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.4	3.4
55°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.4
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	3.4	3.4	2.2
65°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.4	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°	3.4	3.4	2.2	3.4	2.2	2.2	3.4	3.4	3.4	2.2	2.2
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	6.7	6.7	4.5
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.6	6.7	5.6
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.6	5.6	5.6
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	4.5	4.5
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	4.5	4.5
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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-LD5-58SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3733.1	3732.0	3755.6	3773.6	3766.9	3773.6	3781.5	3782.6	3784.9	3775.9	3772.5
5°	4102.1	4067.2	3999.7	3951.3	3895.1	3792.7	3742.1	3747.8	3748.9	3745.5	3750.0
7.5°	4172.9	4169.5	4145.9	4135.8	4097.6	4024.4	3907.5	3887.2	3837.7	3806.2	3780.4
10°	3995.2	4076.2	4097.6	4133.5	4156.0	4142.5	4043.6	4028.9	3997.5	3961.5	3969.3
12.5°	3802.9	3869.2	3872.6	4068.3	4112.2	4116.7	4078.4	4098.7	4103.2	4022.2	3975.0
15°	3566.7	3598.2	3664.5	3846.7	3979.5	4062.7	4087.4	4098.7	4043.6	4040.2	4021.1
17.5°	3463.2	3483.4	3513.8	3616.2	3817.5	3940.1	4044.7	4036.8	4058.2	4042.4	3994.1
20°	3332.7	3349.6	3403.6	3455.3	3554.3	3717.4	3913.1	3927.7	3955.8	3952.5	3966.0
22.5°	3330.5	3270.8	3279.8	3320.3	3423.8	3570.0	3778.1	3826.5	3844.5	3856.9	3871.5
25°	2642.1	3115.6	3202.2	3228.1	3295.6	3381.1	3626.3	3644.3	3678.0	3733.1	3773.6
27.5°	2288.9	2610.6	2957.0	3137.0	3179.7	3250.6	3396.8	3423.8	3538.5	3552.0	3615.0
30°	1806.4	2055.0	2572.4	3005.4	3076.3	3125.8	3229.2	3283.2	3332.7	3386.7	3453.1
32.5°	1699.5	1738.9	2025.7	2486.9	3038.0	3000.9	3077.4	3110.0	3164.0	3211.2	3259.6
35°	1601.7	1628.7	1689.4	2037.0	2474.5	2898.5	2950.3	2971.7	3002.0	3038.0	3072.9
37.5°	1499.3	1539.8	1581.4	1674.8	2288.9	2817.6	2816.4	2841.2	2859.2	2889.5	2918.8
40°	272.2	1413.8	1481.3	1542.1	1774.9	2247.3	2690.5	2701.7	2714.1	2733.2	2763.6
42.5°	43.9	236.2	1388.0	1446.5	1512.8	2012.2	2633.1	2587.0	2579.1	2592.6	2619.6
45°	22.5	57.4	278.9	1350.9	1410.5	1605.1	2152.8	2507.1	2499.3	2473.4	2479.0
47.5°	16.9	36.0	68.6	466.8	1320.5	1377.8	1986.4	1965.0	2114.6	2401.4	2357.5
50°	14.6	24.7	40.5	95.6	1166.4	1268.7	1529.7	1787.3	1866.0	1876.1	2220.3
52.5°	13.5	16.9	29.2	61.9	245.2	1173.1	1244.0	1334.0	1466.7	1751.3	1744.5
55°	12.4	15.7	24.7	41.6	85.5	1057.3	1130.4	1147.3	1175.4	1311.5	1491.5
57.5°	6.7	14.6	23.6	36.0	64.1	193.5	1025.8	1039.3	1061.8	1067.4	1131.5
60°	3.4	13.5	21.4	31.5	47.2	90.0	922.3	938.1	951.6	953.8	974.1
62.5°	2.2	12.4	18.0	29.2	39.4	64.1	218.2	445.4	847.0	847.0	870.6
65°	2.2	9.0	11.2	19.1	36.0	52.9	92.2	106.9	208.1	511.8	763.7
67.5°	2.2	3.4	10.1	15.7	27.0	40.5	67.5	78.7	94.5	108.0	200.2
70°	2.2	2.2	9.0	10.1	16.9	30.4	48.4	55.1	64.1	73.1	84.4
72.5°	2.2	2.2	7.9	7.9	11.2	20.2	37.1	40.5	46.1	51.7	59.6
75°	5.6	4.5	6.7	6.7	7.9	15.7	28.1	31.5	33.7	38.2	43.9
77.5°	5.6	5.6	5.6	5.6	5.6	10.1	18.0	20.2	23.6	25.9	30.4
80°	4.5	4.5	4.5	5.6	5.6	6.7	11.2	12.4	13.5	16.9	18.0
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.7	7.9	10.1
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	4.5	4.5	4.5
87.5°	3.4	3.4	3.4	2.2	2.2	3.4	3.4	3.4	3.4	3.4	3.4
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-LD5-58SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3771.4	3764.6	3759.0	3762.4	3752.3	3747.8	3751.1	3752.3	3754.5	3760.1	3761.2
5°	3761.2	3759.0	3769.1	3774.7	3772.5	3774.7	3774.7	3770.2	3763.5	3768.0	3757.9
7.5°	3754.5	3739.9	3728.6	3730.9	3719.6	3733.1	3745.5	3763.5	3769.1	3769.1	3757.9
10°	3870.4	3854.6	3791.6	3748.9	3720.8	3696.0	3754.5	3694.9	3723.0	3616.2	3738.8
12.5°	3966.0	3987.3	3959.2	3842.2	3822.0	3747.8	3790.5	3717.4	3696.0	3573.4	3612.8
15°	4004.2	3963.7	3954.7	3922.1	3878.2	3856.9	3742.1	3729.8	3694.9	3708.4	3656.6
17.5°	3970.5	3990.7	3963.7	3942.3	3897.3	3846.7	3778.1	3717.4	3669.0	3561.0	3652.1
20°	3937.8	3964.8	3883.8	3897.3	3901.8	3843.4	3807.4	3756.7	3696.0	3594.8	3516.0
22.5°	3883.8	3864.7	3871.5	3851.2	3834.4	3842.2	3792.7	3757.9	3655.5	3609.4	3502.6
25°	3796.1	3789.4	3807.4	3805.1	3764.6	3751.1	3726.4	3689.3	3648.8	3574.5	3486.8
27.5°	3653.3	3688.1	3719.6	3734.3	3712.9	3676.9	3663.4	3642.0	3613.9	3538.5	3473.3
30°	3502.6	3541.9	3577.9	3609.4	3628.5	3612.8	3600.4	3588.0	3545.3	3495.8	3422.7
32.5°	3330.5	3382.2	3431.7	3469.9	3511.5	3523.9	3514.9	3504.8	3468.8	3423.8	3365.3
35°	3131.4	3202.2	3274.2	3342.8	3360.8	3390.1	3419.3	3402.4	3383.3	3338.3	3284.3
37.5°	2962.7	3013.3	3065.0	3151.6	3214.6	3251.7	3303.5	3310.2	3277.6	3256.2	3185.4
40°	2788.3	2834.4	2909.8	2960.4	3047.0	3089.8	3144.9	3169.6	3161.7	3149.4	3087.5
42.5°	2651.1	2673.6	2723.1	2768.1	2853.6	2941.3	2989.7	3016.6	3044.8	3034.6	3003.2
45°	2504.9	2525.1	2542.0	2581.4	2664.6	2742.2	2801.8	2842.3	2892.9	2916.5	2878.3
47.5°	2359.8	2365.4	2385.6	2418.3	2467.8	2527.4	2627.5	2688.2	2735.5	2781.6	2756.8
50°	2248.4	2228.2	2231.6	2251.8	2292.3	2350.8	2422.8	2508.2	2562.2	2618.5	2624.1
52.5°	1965.0	2129.2	2089.8	2101.1	2122.5	2150.6	2225.9	2310.3	2376.7	2425.0	2473.4
55°	1648.9	1681.5	1997.6	1952.6	1966.1	1990.9	2025.7	2110.1	2174.2	2241.7	2309.2
57.5°	1278.9	1521.8	1534.2	1826.6	1819.9	1822.1	1851.4	1899.7	1963.9	2048.2	2105.6
60°	994.3	1096.7	1295.7	1397.0	1653.4	1662.4	1679.3	1707.4	1762.5	1842.4	1933.5
62.5°	877.3	890.8	961.7	1113.5	1280.0	1481.3	1517.3	1521.8	1546.6	1626.4	1732.2
65°	770.5	779.5	800.8	816.6	956.1	1150.6	1323.9	1352.0	1367.7	1415.0	1504.9
67.5°	530.9	671.5	690.6	701.9	715.4	805.3	1020.2	1163.0	1181.0	1222.6	1301.4
70°	102.4	212.6	581.5	593.9	600.6	620.9	655.7	882.9	1002.2	1041.5	1077.5
72.5°	69.7	82.1	99.0	234.0	494.9	506.1	514.0	543.3	744.6	859.3	878.4
75°	50.6	56.2	66.4	82.1	101.2	329.6	408.3	422.9	437.5	604.0	700.7
77.5°	36.0	40.5	45.0	52.9	61.9	79.9	114.7	316.1	330.7	338.6	478.0
80°	20.2	24.7	30.4	34.9	39.4	45.0	58.5	73.1	163.1	238.5	250.8
82.5°	11.2	13.5	15.7	19.1	21.4	27.0	32.6	39.4	51.7	76.5	162.0
85°	5.6	5.6	5.6	7.9	9.0	12.4	14.6	16.9	23.6	32.6	45.0
87.5°	3.4	3.4	4.5	4.5	4.5	5.6	5.6	5.6	6.7	10.1	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-58SL-RM-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	3747.8	3747.8	3747.8	3747.8	3747.8
2.5°	3762.4	3759.0	3759.0	3772.5	3769.1
5°	3755.6	3752.3	3751.1	3765.7	3759.0
7.5°	3750.0	3737.6	3734.3	3747.8	3742.1
10°	3727.5	3718.5	3724.1	3719.6	3717.4
12.5°	3689.3	3683.6	3660.0	3662.3	3681.4
15°	3620.7	3643.1	3602.7	3638.6	3646.5
17.5°	3494.7	3545.3	3584.7	3606.0	3609.4
20°	3550.9	3567.8	3547.5	3548.7	3562.2
22.5°	3477.8	3485.7	3491.3	3484.6	3513.8
25°	3360.8	3330.5	3395.7	3409.2	3456.4
27.5°	3324.8	3300.1	3330.5	3328.2	3367.6
30°	3295.6	3215.7	3229.2	3250.6	3299.0
32.5°	3254.0	3128.0	3114.5	3161.7	3215.7
35°	3180.9	3061.6	3030.1	3060.5	3141.5
37.5°	3119.0	2969.4	2906.4	2946.9	3052.6
40°	3026.8	2897.4	2799.6	2835.6	2960.4
42.5°	2916.5	2835.6	2684.8	2709.6	2852.4
45°	2805.2	2733.2	2573.5	2585.9	2755.7
47.5°	2691.6	2625.2	2457.6	2459.9	2632.0
50°	2580.2	2492.5	2354.2	2314.8	2500.4
52.5°	2435.1	2354.2	2249.6	2185.4	2375.5
55°	2297.9	2206.8	2130.3	2031.3	2233.8
57.5°	2164.1	2062.8	2011.1	1884.0	2073.0
60°	1980.7	1932.4	1855.9	1734.4	1927.9
62.5°	1792.9	1777.1	1699.5	1573.6	1749.0
65°	1573.6	1610.7	1530.8	1422.8	1563.4
67.5°	1366.6	1433.0	1345.2	1278.9	1384.6
70°	1146.1	1222.6	1173.1	1149.5	1194.5
72.5°	929.1	1003.3	1007.8	990.9	1005.5
75°	717.6	799.7	844.7	818.8	822.2
77.5°	544.4	583.8	633.2	653.5	649.0
80°	336.3	404.9	445.4	487.0	472.4
82.5°	169.8	227.2	276.7	321.7	300.3
85°	70.9	91.1	127.1	167.6	160.8
87.5°	21.4	36.0	38.2	54.0	50.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)