

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: PORTFOLIO

Report Number: P248878

Luminaire Tested: **LD8B90D010 ER8B90830 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90830 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6927.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

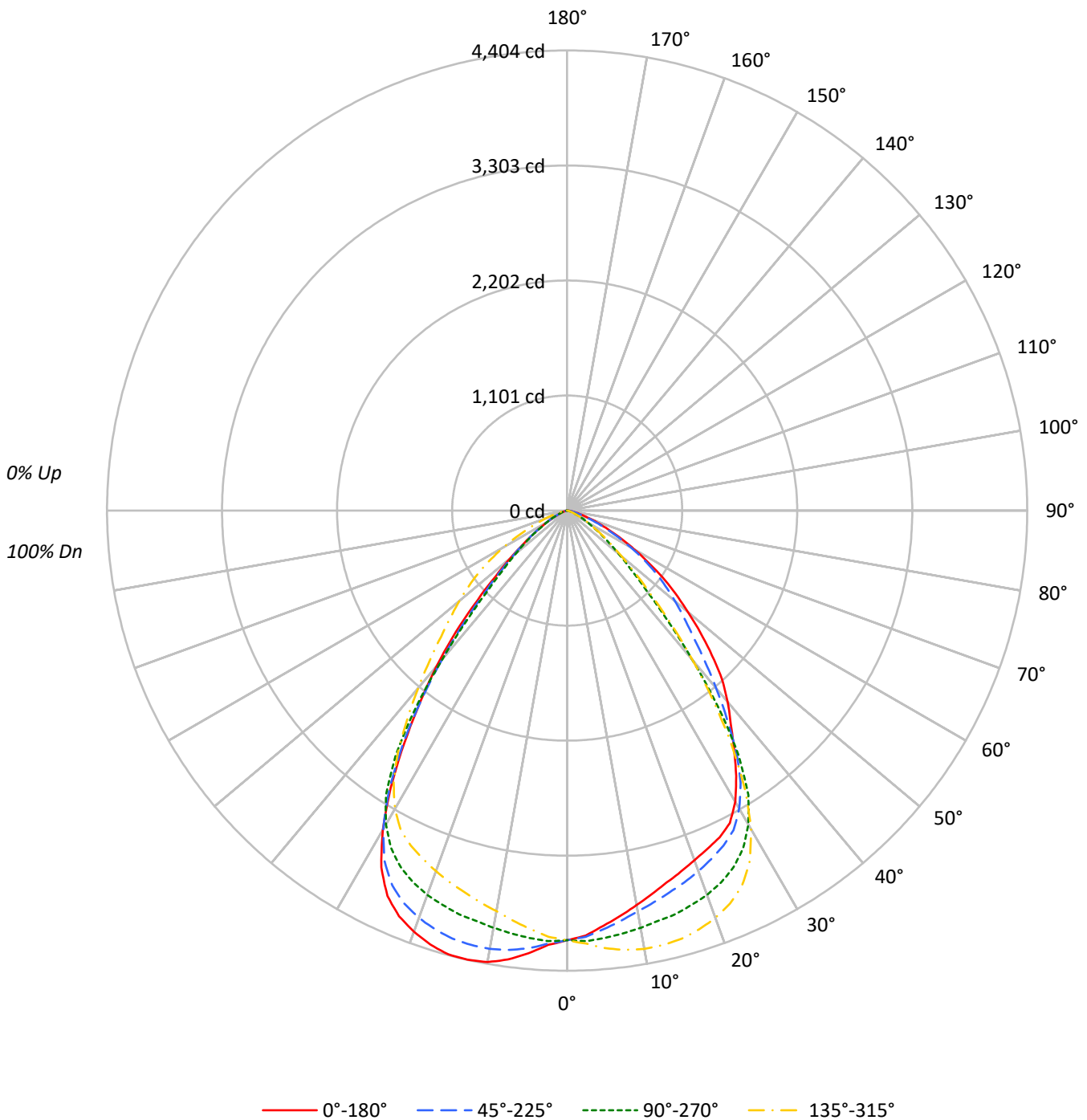
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	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	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	126808	126808	126808	126808
5°	123442	127107	131645	127107
10°	120025	126942	137378	126942
15°	117628	127693	140386	127693
20°	116829	128426	140745	128426
25°	117441	128165	138485	128165
30°	114536	123477	125695	123477
35°	104768	107711	102196	107711
40°	96187	74929	78246	74929
45°	85465	45711	52889	45711
50°	72343	30535	33907	30535
55°	59917	20833	22021	20833
60°	45699	13870	13994	13870
65°	32375	8639	7909	8639
70°	23351	5788	5256	5788
75°	14833	2871	2395	2871
80°	10353	2149	1776	2149
85°	9234	0	708	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.4	5.7
10°-20°	1133.5	16.4
20°-30°	1716.3	24.8
30°-40°	1720.2	24.8
40°-50°	1080.2	15.6
50°-60°	575.6	8.3
60°-70°	236.7	3.4
70°-80°	62.5	0.9
80°-90°	10.6	0.2
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°	3241.2	46.8
0°-40°	4961.4	71.6
0°-60°	6617.2	95.5
0°-90°	6927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6927.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4112	4112	4112	4112	4112	
5°	3988	4106	4253	4106	3988	376
15°	3685	4000	4398	4000	3685	1042
25°	3452	3767	4070	3767	3452	1583
35°	2783	2861	2715	2861	2783	1744
45°	1960	1048	1213	1048	1960	1507
55°	1114	388	410	388	1114	994
65°	444	118	108	118	444	460
75°	124	24	20	24	124	141
85°	26	0	2	0	26	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3
2.5°	4070.2	4066.1	4064.2	4068.2	4070.2	4078.2	4076.2	4080.2	4080.2	4082.3	4086.2
5°	3987.9	3985.8	3987.9	3987.9	3995.9	4003.9	4001.9	4008.0	4011.9	4022.0	4026.0
7.5°	3911.6	3911.6	3909.5	3917.5	3921.6	3933.7	3931.6	3941.7	3947.7	3957.7	3971.8
10°	3833.2	3833.2	3835.2	3841.2	3843.3	3861.3	3861.3	3875.4	3883.4	3893.5	3911.6
12.5°	3756.9	3756.9	3769.0	3765.0	3773.0	3787.0	3793.1	3807.1	3819.2	3839.3	3857.4
15°	3684.6	3684.6	3688.7	3698.7	3704.7	3722.8	3732.8	3748.9	3763.0	3783.1	3809.2
17.5°	3622.4	3620.4	3622.4	3634.5	3646.5	3662.6	3670.6	3690.7	3704.7	3730.8	3755.0
20°	3560.2	3564.2	3564.2	3574.2	3582.2	3602.3	3610.3	3632.5	3648.5	3672.6	3700.7
22.5°	3505.9	3504.0	3504.0	3518.0	3524.0	3542.1	3550.1	3570.2	3588.3	3608.3	3634.5
25°	3451.7	3447.7	3455.8	3457.8	3461.7	3481.8	3487.8	3501.9	3520.0	3538.1	3564.2
27.5°	3371.4	3367.4	3369.4	3377.4	3383.4	3399.5	3403.5	3417.6	3431.6	3447.7	3469.8
30°	3216.7	3212.8	3210.8	3224.8	3230.9	3242.9	3248.9	3273.0	3277.0	3295.1	3311.1
32.5°	3011.9	3010.0	3014.0	3026.0	3032.0	3048.1	3056.2	3070.2	3080.2	3090.3	3106.3
35°	2783.1	2779.0	2783.1	2795.1	2795.1	2809.2	2815.2	2821.2	2819.2	2821.2	2817.2
37.5°	2570.3	2568.2	2570.3	2576.2	2570.3	2576.2	2570.3	2558.2	2536.1	2512.0	2487.9
40°	2389.5	2391.5	2379.5	2387.5	2365.4	2361.4	2339.3	2309.2	2265.0	2216.8	2148.6
42.5°	2196.8	2190.7	2182.7	2186.7	2168.7	2154.5	2118.4	2080.3	2024.0	1943.8	1861.4
45°	1959.8	1957.8	1953.8	1951.8	1939.7	1925.7	1895.5	1851.4	1789.1	1706.8	1608.4
47.5°	1728.9	1722.8	1722.8	1724.8	1710.8	1708.8	1684.7	1646.6	1592.3	1512.0	1409.6
50°	1508.0	1506.0	1510.0	1518.0	1508.0	1504.0	1488.0	1461.8	1413.6	1345.4	1248.9
52.5°	1309.2	1307.2	1311.2	1321.2	1317.2	1321.2	1305.2	1285.1	1253.0	1186.7	1102.4
55°	1114.5	1114.5	1114.5	1126.4	1126.4	1126.4	1118.4	1106.4	1076.3	1028.1	949.8
57.5°	911.6	913.6	925.7	927.7	925.7	929.7	927.7	915.6	895.6	861.5	801.2
60°	741.0	741.0	747.0	753.0	751.0	753.0	753.0	747.0	726.9	698.8	650.6
62.5°	586.3	592.4	588.3	592.4	600.4	592.4	588.3	584.3	570.3	552.2	512.0
65°	443.7	447.8	447.8	449.8	445.7	447.8	439.8	433.7	425.7	405.6	379.5
67.5°	337.4	337.4	337.4	337.4	335.3	333.3	331.3	325.3	311.3	303.2	275.1
70°	259.0	247.0	247.0	247.0	247.0	249.0	243.0	235.0	230.9	216.9	196.8
72.5°	172.7	176.7	172.7	172.7	168.7	170.7	162.7	158.6	154.6	146.6	134.6
75°	124.5	114.5	118.4	120.5	114.5	118.4	110.4	102.4	102.4	96.4	90.3
77.5°	80.3	78.4	80.3	82.3	80.3	78.4	74.3	70.3	70.3	68.3	62.2
80°	58.3	56.2	56.2	56.2	54.2	56.2	52.2	52.2	48.2	46.2	42.2
82.5°	38.2	38.2	36.1	38.2	36.1	38.2	32.2	32.2	32.2	30.1	26.1
85°	26.1	22.1	22.1	24.1	20.1	24.1	22.1	20.1	18.1	18.1	16.0
87.5°	12.1	14.1	12.1	14.1	12.1	12.1	14.1	12.1	12.1	8.0	8.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3
2.5°	4092.3	4094.2	4094.2	4102.3	4106.3	4108.3	4108.3	4124.4	4118.4	4122.4	4126.4
5°	4034.1	4046.1	4050.1	4050.1	4072.2	4080.2	4088.2	4106.3	4108.3	4120.4	4134.4
7.5°	3977.8	3991.8	3999.9	4018.0	4032.0	4046.1	4070.2	4082.3	4094.2	4110.4	4128.4
10°	3923.6	3939.7	3955.7	3969.8	3991.8	4009.9	4026.0	4054.1	4068.2	4090.3	4114.3
12.5°	3871.4	3893.5	3907.5	3931.6	3955.7	3971.8	3995.9	4022.0	4044.1	4066.1	4094.2
15°	3825.2	3851.3	3867.4	3893.5	3919.6	3941.7	3967.8	3999.9	4016.0	4042.1	4068.2
17.5°	3775.0	3803.1	3823.2	3847.3	3879.4	3903.5	3925.6	3957.7	3977.8	4005.9	4036.1
20°	3722.8	3750.9	3775.0	3799.1	3831.2	3855.3	3881.4	3913.6	3935.6	3963.7	3987.9
22.5°	3660.6	3686.7	3712.7	3740.8	3773.0	3793.1	3823.2	3851.3	3875.4	3901.5	3925.6
25°	3580.2	3612.4	3632.5	3658.5	3684.6	3706.7	3738.8	3766.9	3787.0	3811.2	3833.2
27.5°	3485.9	3510.0	3526.0	3548.1	3574.2	3594.3	3618.3	3646.5	3666.6	3688.7	3704.7
30°	3325.2	3347.3	3361.4	3377.4	3403.5	3421.6	3441.7	3467.8	3481.8	3497.9	3512.0
32.5°	3114.3	3132.4	3140.5	3152.5	3170.6	3188.6	3204.8	3226.8	3232.9	3242.9	3242.9
35°	2809.2	2813.2	2811.2	2815.2	2823.2	2833.2	2847.3	2861.3	2869.4	2869.4	2863.4
37.5°	2451.7	2427.7	2401.6	2381.5	2375.4	2371.4	2379.5	2385.4	2393.5	2397.5	2387.5
40°	2080.3	2026.1	1967.8	1915.6	1879.5	1863.4	1857.4	1861.4	1861.4	1875.4	1875.4
42.5°	1761.0	1676.6	1590.4	1512.0	1459.8	1419.7	1401.6	1401.6	1403.6	1413.6	1419.7
45°	1496.0	1389.5	1289.1	1202.8	1130.5	1078.3	1054.2	1048.2	1046.2	1050.2	1064.2
47.5°	1293.1	1182.7	1078.3	971.9	895.6	843.4	821.3	813.2	805.2	813.2	815.3
50°	1134.5	1020.1	909.6	803.2	722.9	676.7	648.6	636.5	634.5	634.5	638.6
52.5°	989.9	883.5	773.1	664.7	580.3	536.2	510.0	504.0	496.0	504.0	504.0
55°	853.4	747.0	638.6	536.2	465.8	419.7	395.6	387.5	383.5	389.5	389.5
57.5°	704.8	614.4	514.1	421.7	351.4	319.3	301.2	291.2	289.1	293.2	289.1
60°	578.3	502.0	415.6	331.3	277.1	243.0	228.9	224.9	220.8	224.9	224.9
62.5°	457.8	393.6	323.2	259.0	212.8	188.8	172.7	172.7	170.7	170.7	172.7
65°	339.4	289.1	238.9	184.7	148.6	130.5	118.4	118.4	116.5	118.4	116.5
67.5°	247.0	212.8	172.7	134.6	106.5	96.4	88.4	82.3	86.4	82.3	80.3
70°	180.8	152.6	124.5	102.4	82.3	72.3	66.3	64.2	60.3	60.3	60.3
72.5°	120.5	102.4	84.3	66.3	54.2	44.1	42.2	38.2	34.1	36.1	40.2
75°	80.3	68.3	60.3	48.2	36.1	36.1	24.1	24.1	20.1	24.1	18.1
77.5°	56.2	46.2	36.1	30.1	24.1	22.1	16.0	16.0	14.1	14.1	14.1
80°	40.2	34.1	26.1	22.1	16.0	16.0	14.1	12.1	10.0	10.0	12.1
82.5°	24.1	18.1	18.1	16.0	10.0	8.0	6.0	8.0	4.0	4.0	4.0
85°	14.1	12.1	10.0	6.0	4.0	4.0	2.0	0.0	2.0	2.0	0.0
87.5°	8.0	4.0	4.0	2.0	0.0	2.0	2.0	0.0	0.0	0.0	4.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3
2.5°	4136.5	4134.4	4138.5	4138.5	4150.5	4148.5	4154.5	4154.5	4150.5	4152.5	4160.5
5°	4150.5	4156.6	4168.5	4178.6	4196.6	4204.7	4214.7	4224.8	4226.8	4232.8	4238.9
7.5°	4150.5	4170.6	4184.7	4202.7	4226.8	4240.9	4262.9	4281.0	4289.0	4299.0	4311.1
10°	4142.4	4162.5	4188.6	4208.7	4238.9	4260.9	4283.0	4311.1	4323.2	4339.2	4355.3
12.5°	4126.4	4148.5	4176.6	4202.7	4236.8	4256.9	4285.0	4311.1	4329.2	4351.3	4369.4
15°	4102.3	4128.4	4154.5	4180.6	4216.7	4240.9	4267.0	4297.1	4315.2	4339.2	4355.3
17.5°	4064.2	4092.3	4116.4	4140.4	4174.6	4202.7	4226.8	4254.9	4273.0	4293.1	4315.2
20°	4018.0	4044.1	4070.2	4090.3	4124.4	4148.5	4174.6	4200.7	4214.7	4218.8	4252.9
22.5°	3959.8	3977.8	3997.9	4030.0	4050.1	4072.2	4096.3	4120.4	4134.4	4156.6	4168.5
25°	3863.3	3881.4	3903.5	3917.5	3941.7	3959.8	3983.8	4009.9	4018.0	4034.1	4046.1
27.5°	3728.8	3738.8	3748.9	3760.9	3775.0	3785.0	3799.1	3811.2	3819.2	3827.2	3835.2
30°	3515.9	3515.9	3515.9	3507.9	3514.0	3520.0	3522.0	3520.0	3520.0	3518.0	3518.0
32.5°	3234.8	3218.8	3200.7	3184.7	3178.6	3170.6	3166.6	3160.5	3150.5	3144.5	3146.5
35°	2855.3	2819.2	2797.1	2777.0	2761.0	2748.9	2742.9	2736.9	2734.9	2726.9	2718.8
37.5°	2381.5	2355.4	2339.3	2327.3	2313.2	2301.1	2303.1	2305.2	2311.1	2307.2	2309.2
40°	1879.5	1873.4	1879.5	1865.4	1861.4	1865.4	1875.4	1889.5	1897.6	1905.6	1919.6
42.5°	1429.7	1439.7	1453.8	1453.8	1459.8	1467.9	1479.9	1502.0	1514.0	1528.0	1544.2
45°	1076.3	1088.3	1106.4	1112.4	1116.4	1126.4	1140.6	1158.6	1166.6	1178.7	1192.7
47.5°	829.3	837.3	847.3	857.4	867.4	871.5	885.5	885.5	895.6	903.6	907.6
50°	646.6	654.6	662.6	668.6	672.7	678.7	682.7	688.7	690.7	694.8	696.7
52.5°	506.0	516.1	516.1	520.0	526.1	532.1	530.1	532.1	534.1	534.1	540.1
55°	395.6	395.6	401.6	401.6	405.6	403.6	405.6	405.6	405.6	405.6	407.6
57.5°	295.1	297.2	303.2	299.2	297.2	301.2	297.2	301.2	299.2	303.2	297.2
60°	226.9	226.9	228.9	228.9	230.9	230.9	230.9	228.9	228.9	226.9	226.9
62.5°	170.7	172.7	174.7	172.7	172.7	172.7	170.7	170.7	168.7	166.6	166.6
65°	114.5	112.5	116.5	112.5	114.5	114.5	112.5	114.5	108.4	110.4	108.4
67.5°	82.3	80.3	78.4	80.3	78.4	76.3	76.3	78.4	80.3	74.3	74.3
70°	54.2	56.2	54.2	56.2	58.3	58.3	56.2	54.2	56.2	52.2	54.2
72.5°	34.1	34.1	34.1	34.1	34.1	36.1	36.1	36.1	32.2	32.2	30.1
75°	16.0	22.1	18.1	16.0	22.1	22.1	20.1	20.1	18.1	18.1	18.1
77.5°	16.0	12.1	12.1	12.1	12.1	12.1	12.1	12.1	10.0	12.1	10.0
80°	8.0	8.0	8.0	6.0	8.0	8.0	10.0	8.0	8.0	6.0	10.0
82.5°	4.0	4.0	4.0	0.0	2.0	4.0	4.0	2.0	4.0	4.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248878

CATALOG NUMBER: LD8B90D010 ER8B90830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3
2.5°	4158.5	4156.6	4158.5	4160.5	4158.5	4156.6	4158.5	4160.5	4152.5	4150.5	4154.5
5°	4246.9	4246.9	4250.9	4252.9	4250.9	4246.9	4246.9	4238.9	4232.8	4226.8	4224.8
7.5°	4323.2	4327.2	4331.2	4333.2	4331.2	4327.2	4323.2	4311.1	4299.0	4289.0	4281.0
10°	4369.4	4375.4	4383.4	4387.4	4383.4	4375.4	4369.4	4355.3	4339.2	4323.2	4311.1
12.5°	4389.5	4395.5	4405.5	4403.5	4405.5	4395.5	4389.5	4369.4	4351.3	4329.2	4311.1
15°	4375.4	4383.4	4393.4	4397.5	4393.4	4383.4	4375.4	4355.3	4339.2	4315.2	4297.1
17.5°	4331.2	4343.3	4349.3	4355.3	4349.3	4343.3	4331.2	4315.2	4293.1	4273.0	4254.9
20°	4270.9	4279.0	4287.1	4289.0	4287.1	4279.0	4270.9	4252.9	4218.8	4214.7	4200.7
22.5°	4184.7	4190.7	4208.7	4202.7	4208.7	4190.7	4184.7	4168.5	4156.6	4134.4	4120.4
25°	4060.1	4066.1	4068.2	4070.2	4068.2	4066.1	4060.1	4046.1	4034.1	4018.0	4009.9
27.5°	3845.3	3845.3	3849.3	3851.3	3849.3	3845.3	3845.3	3835.2	3827.2	3819.2	3811.2
30°	3520.0	3520.0	3520.0	3530.1	3520.0	3520.0	3520.0	3518.0	3518.0	3520.0	3520.0
32.5°	3144.5	3140.5	3136.5	3140.5	3136.5	3140.5	3144.5	3146.5	3144.5	3150.5	3160.5
35°	2718.8	2716.8	2722.8	2714.8	2722.8	2716.8	2718.8	2718.8	2726.9	2734.9	2736.9
37.5°	2311.1	2307.2	2315.2	2307.2	2315.2	2307.2	2311.1	2309.2	2307.2	2311.1	2305.2
40°	1923.7	1927.6	1927.6	1943.8	1927.6	1927.6	1923.7	1919.6	1905.6	1897.6	1889.5
42.5°	1552.2	1564.2	1560.2	1572.3	1560.2	1564.2	1552.2	1544.2	1528.0	1514.0	1502.0
45°	1200.7	1208.8	1208.8	1212.8	1208.8	1208.8	1200.7	1192.7	1178.7	1166.6	1158.6
47.5°	921.6	921.6	921.6	923.7	921.6	921.6	921.6	907.6	903.6	895.6	885.5
50°	700.8	702.8	704.8	706.8	704.8	702.8	700.8	696.7	694.8	690.7	688.7
52.5°	538.1	540.1	536.2	540.1	536.2	540.1	538.1	540.1	534.1	534.1	532.1
55°	407.6	405.6	407.6	409.6	407.6	405.6	407.6	407.6	405.6	405.6	405.6
57.5°	299.2	295.1	295.1	295.1	295.1	295.1	299.2	297.2	303.2	299.2	301.2
60°	222.9	224.9	224.9	226.9	224.9	224.9	222.9	226.9	226.9	228.9	228.9
62.5°	164.6	170.7	166.6	170.7	166.6	170.7	164.6	166.6	166.6	168.7	170.7
65°	106.5	106.5	106.5	108.4	106.5	106.5	106.5	108.4	110.4	108.4	114.5
67.5°	72.3	74.3	78.4	76.3	78.4	74.3	72.3	74.3	74.3	80.3	78.4
70°	58.3	52.2	52.2	58.3	52.2	52.2	58.3	54.2	52.2	56.2	54.2
72.5°	34.1	30.1	34.1	34.1	34.1	30.1	34.1	30.1	32.2	32.2	36.1
75°	18.1	16.0	14.1	20.1	14.1	16.0	18.1	18.1	18.1	18.1	20.1
77.5°	12.1	10.0	14.1	14.1	14.1	10.0	12.1	10.0	12.1	10.0	12.1
80°	6.0	8.0	6.0	10.0	6.0	8.0	6.0	10.0	6.0	8.0	8.0
82.5°	2.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	4.0	4.0	2.0
85°	0.0	4.0	2.0	2.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248878

CATALOG NUMBER: LD8B90D010 ER8B90830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3
2.5°	4154.5	4148.5	4150.5	4138.5	4138.5	4134.4	4136.5	4126.4	4122.4	4118.4	4124.4
5°	4214.7	4204.7	4196.6	4178.6	4168.5	4156.6	4150.5	4134.4	4120.4	4108.3	4106.3
7.5°	4262.9	4240.9	4226.8	4202.7	4184.7	4170.6	4150.5	4128.4	4110.4	4094.2	4082.3
10°	4283.0	4260.9	4238.9	4208.7	4188.6	4162.5	4142.4	4114.3	4090.3	4068.2	4054.1
12.5°	4285.0	4256.9	4236.8	4202.7	4176.6	4148.5	4126.4	4094.2	4066.1	4044.1	4022.0
15°	4267.0	4240.9	4216.7	4180.6	4154.5	4128.4	4102.3	4068.2	4042.1	4016.0	3999.9
17.5°	4226.8	4202.7	4174.6	4140.4	4116.4	4092.3	4064.2	4036.1	4005.9	3977.8	3957.7
20°	4174.6	4148.5	4124.4	4090.3	4070.2	4044.1	4018.0	3987.9	3963.7	3935.6	3913.6
22.5°	4096.3	4072.2	4050.1	4030.0	3997.9	3977.8	3959.8	3925.6	3901.5	3875.4	3851.3
25°	3983.8	3959.8	3941.7	3917.5	3903.5	3881.4	3863.3	3833.2	3811.2	3787.0	3766.9
27.5°	3799.1	3785.0	3775.0	3760.9	3748.9	3738.8	3728.8	3704.7	3688.7	3666.6	3646.5
30°	3522.0	3520.0	3514.0	3507.9	3515.9	3515.9	3515.9	3512.0	3497.9	3481.8	3467.8
32.5°	3166.6	3170.6	3178.6	3184.7	3200.7	3218.8	3234.8	3242.9	3242.9	3232.9	3226.8
35°	2742.9	2748.9	2761.0	2777.0	2797.1	2819.2	2855.3	2863.4	2869.4	2869.4	2861.3
37.5°	2303.1	2301.1	2313.2	2327.3	2339.3	2355.4	2381.5	2387.5	2397.5	2393.5	2385.4
40°	1875.4	1865.4	1861.4	1865.4	1879.5	1873.4	1879.5	1875.4	1875.4	1861.4	1861.4
42.5°	1479.9	1467.9	1459.8	1453.8	1453.8	1439.7	1429.7	1419.7	1413.6	1403.6	1401.6
45°	1140.6	1126.4	1116.4	1112.4	1106.4	1088.3	1076.3	1064.2	1050.2	1046.2	1048.2
47.5°	885.5	871.5	867.4	857.4	847.3	837.3	829.3	815.3	813.2	805.2	813.2
50°	682.7	678.7	672.7	668.6	662.6	654.6	646.6	638.6	634.5	634.5	636.5
52.5°	530.1	532.1	526.1	520.0	516.1	516.1	506.0	504.0	504.0	496.0	504.0
55°	405.6	403.6	405.6	401.6	401.6	395.6	395.6	389.5	389.5	383.5	387.5
57.5°	297.2	301.2	297.2	299.2	303.2	297.2	295.1	289.1	293.2	289.1	291.2
60°	230.9	230.9	230.9	228.9	228.9	226.9	226.9	224.9	224.9	220.8	224.9
62.5°	170.7	172.7	172.7	172.7	174.7	172.7	170.7	172.7	170.7	170.7	172.7
65°	112.5	114.5	114.5	112.5	116.5	112.5	114.5	116.5	118.4	116.5	118.4
67.5°	76.3	76.3	78.4	80.3	78.4	80.3	82.3	80.3	82.3	86.4	82.3
70°	56.2	58.3	58.3	56.2	54.2	56.2	54.2	60.3	60.3	60.3	64.2
72.5°	36.1	36.1	34.1	34.1	34.1	34.1	34.1	40.2	36.1	34.1	38.2
75°	20.1	22.1	22.1	16.0	18.1	22.1	16.0	18.1	24.1	20.1	24.1
77.5°	12.1	12.1	12.1	12.1	12.1	12.1	16.0	14.1	14.1	14.1	16.0
80°	10.0	8.0	8.0	6.0	8.0	8.0	8.0	12.1	10.0	10.0	12.1
82.5°	4.0	4.0	2.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248878

CATALOG NUMBER: LD8B90D010 ER8B90830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3
2.5°	4108.3	4108.3	4106.3	4102.3	4094.2	4094.2	4092.3	4086.2	4082.3	4080.2	4080.2
5°	4088.2	4080.2	4072.2	4050.1	4050.1	4046.1	4034.1	4026.0	4022.0	4011.9	4008.0
7.5°	4070.2	4046.1	4032.0	4018.0	3999.9	3991.8	3977.8	3971.8	3957.7	3947.7	3941.7
10°	4026.0	4009.9	3991.8	3969.8	3955.7	3939.7	3923.6	3911.6	3893.5	3883.4	3875.4
12.5°	3995.9	3971.8	3955.7	3931.6	3907.5	3893.5	3871.4	3857.4	3839.3	3819.2	3807.1
15°	3967.8	3941.7	3919.6	3893.5	3867.4	3851.3	3825.2	3809.2	3783.1	3763.0	3748.9
17.5°	3925.6	3903.5	3879.4	3847.3	3823.2	3803.1	3775.0	3755.0	3730.8	3704.7	3690.7
20°	3881.4	3855.3	3831.2	3799.1	3775.0	3750.9	3722.8	3700.7	3672.6	3648.5	3632.5
22.5°	3823.2	3793.1	3773.0	3740.8	3712.7	3686.7	3660.6	3634.5	3608.3	3588.3	3570.2
25°	3738.8	3706.7	3684.6	3658.5	3632.5	3612.4	3580.2	3564.2	3538.1	3520.0	3501.9
27.5°	3618.3	3594.3	3574.2	3548.1	3526.0	3510.0	3485.9	3469.8	3447.7	3431.6	3417.6
30°	3441.7	3421.6	3403.5	3377.4	3361.4	3347.3	3325.2	3311.1	3295.1	3277.0	3273.0
32.5°	3204.8	3188.6	3170.6	3152.5	3140.5	3132.4	3114.3	3106.3	3090.3	3080.2	3070.2
35°	2847.3	2833.2	2823.2	2815.2	2811.2	2813.2	2809.2	2817.2	2821.2	2819.2	2821.2
37.5°	2379.5	2371.4	2375.4	2381.5	2401.6	2427.7	2451.7	2487.9	2512.0	2536.1	2558.2
40°	1857.4	1863.4	1879.5	1915.6	1967.8	2026.1	2080.3	2148.6	2216.8	2265.0	2309.2
42.5°	1401.6	1419.7	1459.8	1512.0	1590.4	1676.6	1761.0	1861.4	1943.8	2024.0	2080.3
45°	1054.2	1078.3	1130.5	1202.8	1289.1	1389.5	1496.0	1608.4	1706.8	1789.1	1851.4
47.5°	821.3	843.4	895.6	971.9	1078.3	1182.7	1293.1	1409.6	1512.0	1592.3	1646.6
50°	648.6	676.7	722.9	803.2	909.6	1020.1	1134.5	1248.9	1345.4	1413.6	1461.8
52.5°	510.0	536.2	580.3	664.7	773.1	883.5	989.9	1102.4	1186.7	1253.0	1285.1
55°	395.6	419.7	465.8	536.2	638.6	747.0	853.4	949.8	1028.1	1076.3	1106.4
57.5°	301.2	319.3	351.4	421.7	514.1	614.4	704.8	801.2	861.5	895.6	915.6
60°	228.9	243.0	277.1	331.3	415.6	502.0	578.3	650.6	698.8	726.9	747.0
62.5°	172.7	188.8	212.8	259.0	323.2	393.6	457.8	512.0	552.2	570.3	584.3
65°	118.4	130.5	148.6	184.7	238.9	289.1	339.4	379.5	405.6	425.7	433.7
67.5°	88.4	96.4	106.5	134.6	172.7	212.8	247.0	275.1	303.2	311.3	325.3
70°	66.3	72.3	82.3	102.4	124.5	152.6	180.8	196.8	216.9	230.9	235.0
72.5°	42.2	44.1	54.2	66.3	84.3	102.4	120.5	134.6	146.6	154.6	158.6
75°	24.1	36.1	36.1	48.2	60.3	68.3	80.3	90.3	96.4	102.4	102.4
77.5°	16.0	22.1	24.1	30.1	36.1	46.2	56.2	62.2	68.3	70.3	70.3
80°	14.1	16.0	16.0	22.1	26.1	34.1	40.2	42.2	46.2	48.2	52.2
82.5°	6.0	8.0	10.0	16.0	18.1	18.1	24.1	26.1	30.1	32.2	32.2
85°	2.0	4.0	4.0	6.0	10.0	12.1	14.1	16.0	18.1	18.1	20.1
87.5°	2.0	2.0	0.0	2.0	4.0	4.0	8.0	8.0	8.0	12.1	12.1
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: P248878

CATALOG NUMBER: LD8B90D010 ER8B90830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3	4112.3
2.5°	4076.2	4078.2	4070.2	4068.2	4064.2	4066.1	4070.2
5°	4001.9	4003.9	3995.9	3987.9	3987.9	3985.8	3987.9
7.5°	3931.6	3933.7	3921.6	3917.5	3909.5	3911.6	3911.6
10°	3861.3	3861.3	3843.3	3841.2	3835.2	3833.2	3833.2
12.5°	3793.1	3787.0	3773.0	3765.0	3769.0	3756.9	3756.9
15°	3732.8	3722.8	3704.7	3698.7	3688.7	3684.6	3684.6
17.5°	3670.6	3662.6	3646.5	3634.5	3622.4	3620.4	3622.4
20°	3610.3	3602.3	3582.2	3574.2	3564.2	3564.2	3560.2
22.5°	3550.1	3542.1	3524.0	3518.0	3504.0	3504.0	3505.9
25°	3487.8	3481.8	3461.7	3457.8	3455.8	3447.7	3451.7
27.5°	3403.5	3399.5	3383.4	3377.4	3369.4	3367.4	3371.4
30°	3248.9	3242.9	3230.9	3224.8	3210.8	3212.8	3216.7
32.5°	3056.2	3048.1	3032.0	3026.0	3014.0	3010.0	3011.9
35°	2815.2	2809.2	2795.1	2795.1	2783.1	2779.0	2783.1
37.5°	2570.3	2576.2	2570.3	2576.2	2570.3	2568.2	2570.3
40°	2339.3	2361.4	2365.4	2387.5	2379.5	2391.5	2389.5
42.5°	2118.4	2154.5	2168.7	2186.7	2182.7	2190.7	2196.8
45°	1895.5	1925.7	1939.7	1951.8	1953.8	1957.8	1959.8
47.5°	1684.7	1708.8	1710.8	1724.8	1722.8	1722.8	1728.9
50°	1488.0	1504.0	1508.0	1518.0	1510.0	1506.0	1508.0
52.5°	1305.2	1321.2	1317.2	1321.2	1311.2	1307.2	1309.2
55°	1118.4	1126.4	1126.4	1126.4	1114.5	1114.5	1114.5
57.5°	927.7	929.7	925.7	927.7	925.7	913.6	911.6
60°	753.0	753.0	751.0	753.0	747.0	741.0	741.0
62.5°	588.3	592.4	600.4	592.4	588.3	592.4	586.3
65°	439.8	447.8	445.7	449.8	447.8	447.8	443.7
67.5°	331.3	333.3	335.3	337.4	337.4	337.4	337.4
70°	243.0	249.0	247.0	247.0	247.0	247.0	259.0
72.5°	162.7	170.7	168.7	172.7	172.7	176.7	172.7
75°	110.4	118.4	114.5	120.5	118.4	114.5	124.5
77.5°	74.3	78.4	80.3	82.3	80.3	78.4	80.3
80°	52.2	56.2	54.2	56.2	56.2	56.2	58.3
82.5°	32.2	38.2	36.1	38.2	36.1	38.2	38.2
85°	22.1	24.1	20.1	24.1	22.1	22.1	26.1
87.5°	14.1	12.1	12.1	14.1	12.1	14.1	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)