

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: P248984

Luminaire Tested: **LD8B70D010 ER8B70830 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248984
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: LD8B70D010 ER8B70830 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7164.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

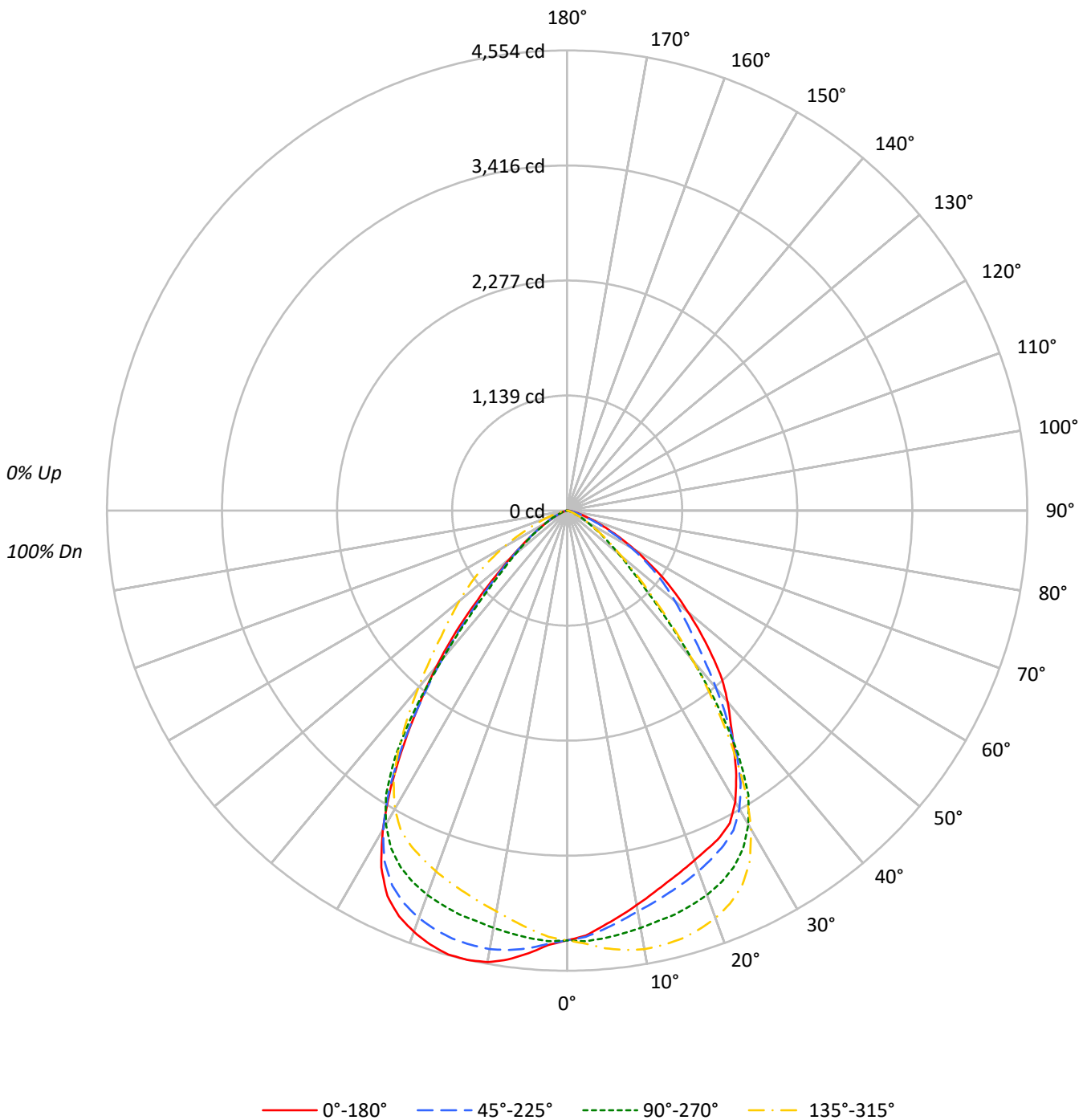
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	131147	131147	131147	131147
5°	127664	131456	136149	131456
10°	124133	131285	142078	131285
15°	121653	132064	145188	132064
20°	120826	132820	145562	132820
25°	121459	132551	143221	132551
30°	118456	127700	129993	127700
35°	108351	111397	105694	111397
40°	99480	77489	80923	77489
45°	88391	47272	54699	47272
50°	74814	31580	35068	31580
55°	61965	21548	22773	21548
60°	47260	14345	14468	14345
65°	33484	8938	8179	8938
70°	24154	5987	5437	5987
75°	15334	2979	2478	2979
80°	10708	2220	1829	2220
85°	9553	0	743	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.8	5.7
10°-20°	1172.3	16.4
20°-30°	1775.0	24.8
30°-40°	1779.0	24.8
40°-50°	1117.1	15.6
50°-60°	595.3	8.3
60°-70°	244.8	3.4
70°-80°	64.7	0.9
80°-90°	10.9	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°	3352.1	46.8
0°-40°	5131.1	71.6
0°-60°	6843.6	95.5
0°-90°	7164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7164.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4253	4253	4253	4253	4253	
5°	4124	4247	4398	4247	4124	389
15°	3811	4137	4548	4137	3811	1078
25°	3570	3896	4209	3896	3570	1637
35°	2878	2959	2808	2959	2878	1803
45°	2027	1084	1254	1084	2027	1559
55°	1153	401	424	401	1153	1028
65°	459	122	112	122	459	476
75°	129	25	21	25	129	146
85°	27	0	2	0	27	30
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°	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0
2.5°	4209.4	4205.3	4203.2	4207.4	4209.4	4217.7	4215.7	4219.8	4219.8	4221.9	4226.0
5°	4124.3	4122.2	4124.3	4124.3	4132.6	4140.9	4138.8	4145.1	4149.2	4159.6	4163.7
7.5°	4045.4	4045.4	4043.3	4051.6	4055.8	4068.2	4066.1	4076.5	4082.8	4093.1	4107.6
10°	3964.4	3964.4	3966.4	3972.7	3974.8	3993.4	3993.4	4008.0	4016.3	4026.7	4045.4
12.5°	3885.5	3885.5	3898.0	3893.8	3902.1	3916.6	3922.8	3937.4	3949.8	3970.6	3989.3
15°	3810.7	3810.7	3814.9	3825.2	3831.5	3850.2	3860.5	3877.2	3891.7	3912.5	3939.5
17.5°	3746.3	3744.3	3746.3	3758.8	3771.3	3787.9	3796.2	3816.9	3831.5	3858.5	3883.4
20°	3682.0	3686.2	3686.2	3696.5	3704.8	3725.6	3733.8	3756.8	3773.3	3798.2	3827.4
22.5°	3625.9	3623.8	3623.8	3638.4	3644.6	3663.2	3671.5	3692.3	3711.0	3731.8	3758.8
25°	3569.8	3565.6	3574.0	3576.1	3580.2	3600.9	3607.2	3621.7	3640.4	3659.1	3686.2
27.5°	3486.7	3482.6	3484.7	3493.0	3499.2	3515.8	3520.0	3534.5	3549.0	3565.6	3588.5
30°	3326.8	3322.7	3320.6	3335.2	3341.4	3353.8	3360.1	3385.0	3389.1	3407.8	3424.4
32.5°	3115.0	3112.9	3117.1	3129.5	3135.8	3152.4	3160.7	3175.2	3185.6	3196.0	3212.6
35°	2878.3	2874.1	2878.3	2890.8	2890.8	2905.3	2911.5	2917.7	2915.7	2917.7	2913.6
37.5°	2658.2	2656.1	2658.2	2664.3	2658.2	2664.3	2658.2	2645.7	2622.9	2597.9	2573.0
40°	2471.3	2473.3	2460.9	2469.2	2446.3	2442.2	2419.4	2388.2	2342.5	2292.7	2222.1
42.5°	2271.9	2265.7	2257.4	2261.5	2242.9	2228.2	2190.9	2151.5	2093.3	2010.3	1925.0
45°	2026.9	2024.8	2020.6	2018.6	2006.1	1991.6	1960.4	1914.7	1850.3	1765.2	1663.4
47.5°	1788.0	1781.8	1781.8	1783.8	1769.3	1767.3	1742.3	1702.9	1646.8	1563.7	1457.8
50°	1559.5	1557.5	1561.7	1570.0	1559.5	1555.4	1538.9	1511.8	1462.0	1391.4	1291.7
52.5°	1354.0	1351.9	1356.1	1366.5	1362.3	1366.5	1349.9	1329.1	1295.8	1227.3	1140.1
55°	1152.6	1152.6	1152.6	1165.0	1165.0	1165.0	1156.7	1144.3	1113.1	1063.3	982.3
57.5°	942.8	944.9	957.4	959.4	957.4	961.5	959.4	946.9	926.2	890.9	828.6
60°	766.3	766.3	772.5	778.8	776.7	778.8	778.8	772.5	751.8	722.7	672.9
62.5°	606.4	612.6	608.4	612.6	620.9	612.6	608.4	604.3	589.8	571.1	529.5
65°	458.9	463.1	463.1	465.2	461.0	463.1	454.8	448.6	440.3	419.5	392.5
67.5°	348.9	348.9	348.9	348.9	346.8	344.7	342.7	336.4	321.9	313.6	284.5
70°	267.9	255.4	255.4	255.4	255.4	257.5	251.3	243.0	238.8	224.3	203.5
72.5°	178.6	182.8	178.6	178.6	174.5	176.5	168.2	164.0	159.9	151.6	139.2
75°	128.7	118.4	122.5	124.6	118.4	122.5	114.2	105.9	105.9	99.7	93.4
77.5°	83.1	81.0	83.1	85.1	83.1	81.0	76.8	72.7	72.7	70.6	64.4
80°	60.3	58.1	58.1	58.1	56.1	58.1	54.0	54.0	49.8	47.8	43.6
82.5°	39.5	39.5	37.4	39.5	37.4	39.5	33.3	33.3	33.3	31.1	27.0
85°	27.0	22.8	22.8	25.0	20.8	25.0	22.8	20.8	18.7	18.7	16.6
87.5°	12.5	14.5	12.5	14.5	12.5	12.5	14.5	12.5	12.5	8.3	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0
2.5°	4232.3	4234.3	4234.3	4242.7	4246.8	4248.9	4248.9	4265.5	4259.3	4263.5	4267.6
5°	4172.1	4184.5	4188.7	4188.7	4211.5	4219.8	4228.1	4246.8	4248.9	4261.3	4275.9
7.5°	4113.9	4128.4	4136.8	4155.4	4170.0	4184.5	4209.4	4221.9	4234.3	4251.0	4269.6
10°	4057.8	4074.5	4091.1	4105.6	4128.4	4147.1	4163.7	4192.8	4207.4	4230.2	4255.1
12.5°	4003.9	4026.7	4041.2	4066.1	4091.1	4107.6	4132.6	4159.6	4182.4	4205.3	4234.3
15°	3956.1	3983.1	3999.7	4026.7	4053.7	4076.5	4103.5	4136.8	4153.4	4180.4	4207.4
17.5°	3904.1	3933.3	3954.0	3978.9	4012.2	4037.0	4059.9	4093.1	4113.9	4142.9	4174.1
20°	3850.2	3879.2	3904.1	3929.1	3962.3	3987.2	4014.2	4047.5	4070.3	4099.4	4124.3
22.5°	3785.8	3812.8	3839.8	3868.8	3902.1	3922.8	3954.0	3983.1	4008.0	4035.0	4059.9
25°	3702.7	3736.0	3756.8	3783.7	3810.7	3833.5	3866.8	3895.8	3916.6	3941.6	3964.4
27.5°	3605.1	3630.1	3646.7	3669.5	3696.5	3717.3	3742.1	3771.3	3792.1	3814.9	3831.5
30°	3438.9	3461.9	3476.4	3493.0	3520.0	3538.7	3559.5	3586.4	3600.9	3617.6	3632.1
32.5°	3220.9	3239.6	3247.9	3260.4	3279.1	3297.7	3314.4	3337.2	3343.5	3353.8	3353.8
35°	2905.3	2909.4	2907.4	2911.5	2919.8	2930.2	2944.7	2959.2	2967.5	2967.5	2961.4
37.5°	2535.6	2510.7	2483.7	2463.0	2456.7	2452.5	2460.9	2467.1	2475.4	2479.5	2469.2
40°	2151.5	2095.4	2035.1	1981.1	1943.8	1927.2	1920.9	1925.0	1925.0	1939.6	1939.6
42.5°	1821.3	1734.0	1644.8	1563.7	1509.7	1468.3	1449.5	1449.5	1451.6	1462.0	1468.3
45°	1547.2	1437.1	1333.2	1244.0	1169.2	1115.1	1090.3	1084.0	1082.0	1086.1	1100.6
47.5°	1337.4	1223.2	1115.1	1005.1	926.2	872.2	849.4	841.0	832.7	841.0	843.2
50°	1173.4	1055.0	940.8	830.7	747.6	699.8	670.7	658.3	656.2	656.2	660.4
52.5°	1023.8	913.8	799.6	687.4	600.1	554.5	527.5	521.2	513.0	521.2	521.2
55°	882.6	772.5	660.4	554.5	481.8	434.1	409.1	400.8	396.6	402.9	402.9
57.5°	729.0	635.4	531.7	436.1	363.5	330.2	311.5	301.1	299.0	303.2	299.0
60°	598.1	519.2	429.9	342.7	286.6	251.3	236.8	232.6	228.4	232.6	232.6
62.5°	473.5	407.0	334.3	267.9	220.1	195.2	178.6	178.6	176.5	176.5	178.6
65°	351.0	299.0	247.1	191.0	153.7	135.0	122.5	122.5	120.4	122.5	120.4
67.5°	255.4	220.1	178.6	139.2	110.1	99.7	91.4	85.1	89.3	85.1	83.1
70°	186.9	157.8	128.7	105.9	85.1	74.8	68.6	66.4	62.3	62.3	62.3
72.5°	124.6	105.9	87.2	68.6	56.1	45.6	43.6	39.5	35.3	37.4	41.5
75°	83.1	70.6	62.3	49.8	37.4	37.4	25.0	25.0	20.8	25.0	18.7
77.5°	58.1	47.8	37.4	31.1	25.0	22.8	16.6	16.6	14.5	14.5	14.5
80°	41.5	35.3	27.0	22.8	16.6	16.6	14.5	12.5	10.3	10.3	12.5
82.5°	25.0	18.7	18.7	16.6	10.3	8.3	6.2	8.3	4.2	4.2	4.2
85°	14.5	12.5	10.3	6.2	4.2	4.2	2.1	0.0	2.1	2.1	0.0
87.5°	8.3	4.2	4.2	2.1	0.0	2.1	2.1	0.0	0.0	0.0	4.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0
2.5°	4278.0	4275.9	4280.1	4280.1	4292.5	4290.4	4296.6	4296.6	4292.5	4294.6	4302.9
5°	4292.5	4298.8	4311.2	4321.6	4340.2	4348.6	4358.9	4369.4	4371.4	4377.7	4383.9
7.5°	4292.5	4313.3	4327.8	4346.5	4371.4	4386.0	4408.8	4427.5	4435.8	4446.1	4458.6
10°	4284.2	4304.9	4331.9	4352.7	4383.9	4406.7	4429.6	4458.6	4471.1	4487.7	4504.3
12.5°	4267.6	4290.4	4319.5	4346.5	4381.8	4402.5	4431.6	4458.6	4477.3	4500.2	4518.9
15°	4242.7	4269.6	4296.6	4323.6	4361.0	4386.0	4413.0	4444.1	4462.8	4487.7	4504.3
17.5°	4203.2	4232.3	4257.2	4282.1	4317.4	4346.5	4371.4	4400.5	4419.2	4440.0	4462.8
20°	4155.4	4182.4	4209.4	4230.2	4265.5	4290.4	4317.4	4344.4	4358.9	4363.1	4398.4
22.5°	4095.2	4113.9	4134.7	4167.9	4188.7	4211.5	4236.5	4261.3	4275.9	4298.8	4311.2
25°	3995.5	4014.2	4037.0	4051.6	4076.5	4095.2	4120.1	4147.1	4155.4	4172.1	4184.5
27.5°	3856.4	3866.8	3877.2	3889.6	3904.1	3914.5	3929.1	3941.6	3949.8	3958.1	3966.4
30°	3636.2	3636.2	3636.2	3627.9	3634.2	3640.4	3642.5	3640.4	3640.4	3638.4	3638.4
32.5°	3345.5	3328.9	3310.2	3293.6	3287.4	3279.1	3274.9	3268.7	3258.3	3252.1	3254.1
35°	2953.0	2915.7	2892.8	2872.1	2855.5	2843.0	2836.8	2830.5	2828.5	2820.2	2811.8
37.5°	2463.0	2436.0	2419.4	2406.9	2392.4	2379.9	2381.9	2384.1	2390.2	2386.1	2388.2
40°	1943.8	1937.5	1943.8	1929.2	1925.0	1929.2	1939.6	1954.2	1962.5	1970.8	1985.3
42.5°	1478.6	1488.9	1503.6	1503.6	1509.7	1518.1	1530.5	1553.4	1565.8	1580.3	1597.0
45°	1113.1	1125.6	1144.3	1150.4	1154.6	1165.0	1179.6	1198.2	1206.5	1219.0	1233.5
47.5°	857.7	866.0	876.3	886.7	897.1	901.3	915.8	915.8	926.2	934.5	938.6
50°	668.7	677.0	685.3	691.5	695.7	701.9	706.0	712.3	714.3	718.5	720.6
52.5°	523.3	533.7	533.7	537.8	544.1	550.3	548.3	550.3	552.4	552.4	558.6
55°	409.1	409.1	415.3	415.3	419.5	417.4	419.5	419.5	419.5	419.5	421.6
57.5°	305.2	307.4	313.6	309.4	307.4	311.5	307.4	311.5	309.4	313.6	307.4
60°	234.6	234.6	236.8	236.8	238.8	238.8	238.8	236.8	236.8	234.6	234.6
62.5°	176.5	178.6	180.7	178.6	178.6	178.6	176.5	176.5	174.5	172.3	172.3
65°	118.4	116.3	120.4	116.3	118.4	118.4	116.3	118.4	112.1	114.2	112.1
67.5°	85.1	83.1	81.0	83.1	81.0	78.9	78.9	81.0	83.1	76.8	76.8
70°	56.1	58.1	56.1	58.1	60.3	60.3	58.1	56.1	58.1	54.0	56.1
72.5°	35.3	35.3	35.3	35.3	35.3	37.4	37.4	37.4	33.3	33.3	31.1
75°	16.6	22.8	18.7	16.6	22.8	22.8	20.8	20.8	18.7	18.7	18.7
77.5°	16.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	10.3	12.5	10.3
80°	8.3	8.3	8.3	6.2	8.3	8.3	10.3	8.3	8.3	6.2	10.3
82.5°	4.2	4.2	4.2	0.0	2.1	4.2	4.2	2.1	4.2	4.2	2.1
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: P248984

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0
2.5°	4300.8	4298.8	4300.8	4302.9	4300.8	4298.8	4300.8	4302.9	4294.6	4292.5	4296.6
5°	4392.2	4392.2	4396.3	4398.4	4396.3	4392.2	4392.2	4383.9	4377.7	4371.4	4369.4
7.5°	4471.1	4475.3	4479.4	4481.4	4479.4	4475.3	4471.1	4458.6	4446.1	4435.8	4427.5
10°	4518.9	4525.1	4533.4	4537.5	4533.4	4525.1	4518.9	4504.3	4487.7	4471.1	4458.6
12.5°	4539.6	4545.9	4556.2	4554.2	4556.2	4545.9	4539.6	4518.9	4500.2	4477.3	4458.6
15°	4525.1	4533.4	4543.8	4547.9	4543.8	4533.4	4525.1	4504.3	4487.7	4462.8	4444.1
17.5°	4479.4	4491.9	4498.1	4504.3	4498.1	4491.9	4479.4	4462.8	4440.0	4419.2	4400.5
20°	4417.1	4425.4	4433.7	4435.8	4433.7	4425.4	4417.1	4398.4	4363.1	4358.9	4344.4
22.5°	4327.8	4334.1	4352.7	4346.5	4352.7	4334.1	4327.8	4311.2	4298.8	4275.9	4261.3
25°	4199.0	4205.3	4207.4	4209.4	4207.4	4205.3	4199.0	4184.5	4172.1	4155.4	4147.1
27.5°	3976.9	3976.9	3981.0	3983.1	3981.0	3976.9	3976.9	3966.4	3958.1	3949.8	3941.6
30°	3640.4	3640.4	3640.4	3650.8	3640.4	3640.4	3640.4	3638.4	3638.4	3640.4	3640.4
32.5°	3252.1	3247.9	3243.8	3247.9	3243.8	3247.9	3252.1	3254.1	3252.1	3258.3	3268.7
35°	2811.8	2809.7	2816.0	2807.7	2816.0	2809.7	2811.8	2811.8	2820.2	2828.5	2830.5
37.5°	2390.2	2386.1	2394.4	2386.1	2394.4	2386.1	2390.2	2388.2	2386.1	2390.2	2384.1
40°	1989.5	1993.6	1993.6	2010.3	1993.6	1993.6	1989.5	1985.3	1970.8	1962.5	1954.2
42.5°	1605.3	1617.8	1613.6	1626.0	1613.6	1617.8	1605.3	1597.0	1580.3	1565.8	1553.4
45°	1241.8	1250.2	1250.2	1254.3	1250.2	1250.2	1241.8	1233.5	1219.0	1206.5	1198.2
47.5°	953.2	953.2	953.2	955.3	953.2	953.2	953.2	938.6	934.5	926.2	915.8
50°	724.8	726.8	729.0	731.0	729.0	726.8	724.8	720.6	718.5	714.3	712.3
52.5°	556.5	558.6	554.5	558.6	554.5	558.6	556.5	558.6	552.4	552.4	550.3
55°	421.6	419.5	421.6	423.6	421.6	419.5	421.6	421.6	419.5	419.5	419.5
57.5°	309.4	305.2	305.2	305.2	305.2	305.2	309.4	307.4	313.6	309.4	311.5
60°	230.5	232.6	232.6	234.6	232.6	232.6	230.5	234.6	234.6	236.8	236.8
62.5°	170.3	176.5	172.3	176.5	172.3	176.5	170.3	172.3	172.3	174.5	176.5
65°	110.1	110.1	110.1	112.1	110.1	110.1	110.1	112.1	114.2	112.1	118.4
67.5°	74.8	76.8	81.0	78.9	81.0	76.8	74.8	76.8	76.8	83.1	81.0
70°	60.3	54.0	54.0	60.3	54.0	54.0	60.3	56.1	54.0	58.1	56.1
72.5°	35.3	31.1	35.3	35.3	35.3	31.1	35.3	31.1	33.3	33.3	37.4
75°	18.7	16.6	14.5	20.8	14.5	16.6	18.7	18.7	18.7	18.7	20.8
77.5°	12.5	10.3	14.5	14.5	14.5	10.3	12.5	10.3	12.5	10.3	12.5
80°	6.2	8.3	6.2	10.3	6.2	8.3	6.2	10.3	6.2	8.3	8.3
82.5°	2.1	4.2	4.2	4.2	4.2	4.2	2.1	2.1	4.2	4.2	2.1
85°	0.0	4.2	2.1	2.1	2.1	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	2.1	0.0	0.0	2.1	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: P248984

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0
2.5°	4296.6	4290.4	4292.5	4280.1	4280.1	4275.9	4278.0	4267.6	4263.5	4259.3	4265.5
5°	4358.9	4348.6	4340.2	4321.6	4311.2	4298.8	4292.5	4275.9	4261.3	4248.9	4246.8
7.5°	4408.8	4386.0	4371.4	4346.5	4327.8	4313.3	4292.5	4269.6	4251.0	4234.3	4221.9
10°	4429.6	4406.7	4383.9	4352.7	4331.9	4304.9	4284.2	4255.1	4230.2	4207.4	4192.8
12.5°	4431.6	4402.5	4381.8	4346.5	4319.5	4290.4	4267.6	4234.3	4205.3	4182.4	4159.6
15°	4413.0	4386.0	4361.0	4323.6	4296.6	4269.6	4242.7	4207.4	4180.4	4153.4	4136.8
17.5°	4371.4	4346.5	4317.4	4282.1	4257.2	4232.3	4203.2	4174.1	4142.9	4113.9	4093.1
20°	4317.4	4290.4	4265.5	4230.2	4209.4	4182.4	4155.4	4124.3	4099.4	4070.3	4047.5
22.5°	4236.5	4211.5	4188.7	4167.9	4134.7	4113.9	4095.2	4059.9	4035.0	4008.0	3983.1
25°	4120.1	4095.2	4076.5	4051.6	4037.0	4014.2	3995.5	3964.4	3941.6	3916.6	3895.8
27.5°	3929.1	3914.5	3904.1	3889.6	3877.2	3866.8	3856.4	3831.5	3814.9	3792.1	3771.3
30°	3642.5	3640.4	3634.2	3627.9	3636.2	3636.2	3636.2	3632.1	3617.6	3600.9	3586.4
32.5°	3274.9	3279.1	3287.4	3293.6	3310.2	3328.9	3345.5	3353.8	3353.8	3343.5	3337.2
35°	2836.8	2843.0	2855.5	2872.1	2892.8	2915.7	2953.0	2961.4	2967.5	2967.5	2959.2
37.5°	2381.9	2379.9	2392.4	2406.9	2419.4	2436.0	2463.0	2469.2	2479.5	2475.4	2467.1
40°	1939.6	1929.2	1925.0	1929.2	1943.8	1937.5	1943.8	1939.6	1939.6	1925.0	1925.0
42.5°	1530.5	1518.1	1509.7	1503.6	1503.6	1488.9	1478.6	1468.3	1462.0	1451.6	1449.5
45°	1179.6	1165.0	1154.6	1150.4	1144.3	1125.6	1113.1	1100.6	1086.1	1082.0	1084.0
47.5°	915.8	901.3	897.1	886.7	876.3	866.0	857.7	843.2	841.0	832.7	841.0
50°	706.0	701.9	695.7	691.5	685.3	677.0	668.7	660.4	656.2	656.2	658.3
52.5°	548.3	550.3	544.1	537.8	533.7	533.7	523.3	521.2	521.2	513.0	521.2
55°	419.5	417.4	419.5	415.3	415.3	409.1	409.1	402.9	402.9	396.6	400.8
57.5°	307.4	311.5	307.4	309.4	313.6	307.4	305.2	299.0	303.2	299.0	301.1
60°	238.8	238.8	238.8	236.8	236.8	234.6	234.6	232.6	232.6	228.4	232.6
62.5°	176.5	178.6	178.6	178.6	180.7	178.6	176.5	178.6	176.5	176.5	178.6
65°	116.3	118.4	118.4	116.3	120.4	116.3	118.4	120.4	122.5	120.4	122.5
67.5°	78.9	78.9	81.0	83.1	81.0	83.1	85.1	83.1	85.1	89.3	85.1
70°	58.1	60.3	60.3	58.1	56.1	58.1	56.1	62.3	62.3	62.3	66.4
72.5°	37.4	37.4	35.3	35.3	35.3	35.3	35.3	41.5	37.4	35.3	39.5
75°	20.8	22.8	22.8	16.6	18.7	22.8	16.6	18.7	25.0	20.8	25.0
77.5°	12.5	12.5	12.5	12.5	12.5	12.5	16.6	14.5	14.5	14.5	16.6
80°	10.3	8.3	8.3	6.2	8.3	8.3	8.3	12.5	10.3	10.3	12.5
82.5°	4.2	4.2	2.1	0.0	4.2	4.2	4.2	4.2	4.2	4.2	8.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	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: P248984

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0
2.5°	4248.9	4248.9	4246.8	4242.7	4234.3	4234.3	4232.3	4226.0	4221.9	4219.8	4219.8
5°	4228.1	4219.8	4211.5	4188.7	4188.7	4184.5	4172.1	4163.7	4159.6	4149.2	4145.1
7.5°	4209.4	4184.5	4170.0	4155.4	4136.8	4128.4	4113.9	4107.6	4093.1	4082.8	4076.5
10°	4163.7	4147.1	4128.4	4105.6	4091.1	4074.5	4057.8	4045.4	4026.7	4016.3	4008.0
12.5°	4132.6	4107.6	4091.1	4066.1	4041.2	4026.7	4003.9	3989.3	3970.6	3949.8	3937.4
15°	4103.5	4076.5	4053.7	4026.7	3999.7	3983.1	3956.1	3939.5	3912.5	3891.7	3877.2
17.5°	4059.9	4037.0	4012.2	3978.9	3954.0	3933.3	3904.1	3883.4	3858.5	3831.5	3816.9
20°	4014.2	3987.2	3962.3	3929.1	3904.1	3879.2	3850.2	3827.4	3798.2	3773.3	3756.8
22.5°	3954.0	3922.8	3902.1	3868.8	3839.8	3812.8	3785.8	3758.8	3731.8	3711.0	3692.3
25°	3866.8	3833.5	3810.7	3783.7	3756.8	3736.0	3702.7	3686.2	3659.1	3640.4	3621.7
27.5°	3742.1	3717.3	3696.5	3669.5	3646.7	3630.1	3605.1	3588.5	3565.6	3549.0	3534.5
30°	3559.5	3538.7	3520.0	3493.0	3476.4	3461.9	3438.9	3424.4	3407.8	3389.1	3385.0
32.5°	3314.4	3297.7	3279.1	3260.4	3247.9	3239.6	3220.9	3212.6	3196.0	3185.6	3175.2
35°	2944.7	2930.2	2919.8	2911.5	2907.4	2909.4	2905.3	2913.6	2917.7	2915.7	2917.7
37.5°	2460.9	2452.5	2456.7	2463.0	2483.7	2510.7	2535.6	2573.0	2597.9	2622.9	2645.7
40°	1920.9	1927.2	1943.8	1981.1	2035.1	2095.4	2151.5	2222.1	2292.7	2342.5	2388.2
42.5°	1449.5	1468.3	1509.7	1563.7	1644.8	1734.0	1821.3	1925.0	2010.3	2093.3	2151.5
45°	1090.3	1115.1	1169.2	1244.0	1333.2	1437.1	1547.2	1663.4	1765.2	1850.3	1914.7
47.5°	849.4	872.2	926.2	1005.1	1115.1	1223.2	1337.4	1457.8	1563.7	1646.8	1702.9
50°	670.7	699.8	747.6	830.7	940.8	1055.0	1173.4	1291.7	1391.4	1462.0	1511.8
52.5°	527.5	554.5	600.1	687.4	799.6	913.8	1023.8	1140.1	1227.3	1295.8	1329.1
55°	409.1	434.1	481.8	554.5	660.4	772.5	882.6	982.3	1063.3	1113.1	1144.3
57.5°	311.5	330.2	363.5	436.1	531.7	635.4	729.0	828.6	890.9	926.2	946.9
60°	236.8	251.3	286.6	342.7	429.9	519.2	598.1	672.9	722.7	751.8	772.5
62.5°	178.6	195.2	220.1	267.9	334.3	407.0	473.5	529.5	571.1	589.8	604.3
65°	122.5	135.0	153.7	191.0	247.1	299.0	351.0	392.5	419.5	440.3	448.6
67.5°	91.4	99.7	110.1	139.2	178.6	220.1	255.4	284.5	313.6	321.9	336.4
70°	68.6	74.8	85.1	105.9	128.7	157.8	186.9	203.5	224.3	238.8	243.0
72.5°	43.6	45.6	56.1	68.6	87.2	105.9	124.6	139.2	151.6	159.9	164.0
75°	25.0	37.4	37.4	49.8	62.3	70.6	83.1	93.4	99.7	105.9	105.9
77.5°	16.6	22.8	25.0	31.1	37.4	47.8	58.1	64.4	70.6	72.7	72.7
80°	14.5	16.6	16.6	22.8	27.0	35.3	41.5	43.6	47.8	49.8	54.0
82.5°	6.2	8.3	10.3	16.6	18.7	18.7	25.0	27.0	31.1	33.3	33.3
85°	2.1	4.2	4.2	6.2	10.3	12.5	14.5	16.6	18.7	18.7	20.8
87.5°	2.1	2.1	0.0	2.1	4.2	4.2	8.3	8.3	8.3	12.5	12.5
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: P248984

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0	4253.0
2.5°	4215.7	4217.7	4209.4	4207.4	4203.2	4205.3	4209.4
5°	4138.8	4140.9	4132.6	4124.3	4124.3	4122.2	4124.3
7.5°	4066.1	4068.2	4055.8	4051.6	4043.3	4045.4	4045.4
10°	3993.4	3993.4	3974.8	3972.7	3966.4	3964.4	3964.4
12.5°	3922.8	3916.6	3902.1	3893.8	3898.0	3885.5	3885.5
15°	3860.5	3850.2	3831.5	3825.2	3814.9	3810.7	3810.7
17.5°	3796.2	3787.9	3771.3	3758.8	3746.3	3744.3	3746.3
20°	3733.8	3725.6	3704.8	3696.5	3686.2	3686.2	3682.0
22.5°	3671.5	3663.2	3644.6	3638.4	3623.8	3623.8	3625.9
25°	3607.2	3600.9	3580.2	3576.1	3574.0	3565.6	3569.8
27.5°	3520.0	3515.8	3499.2	3493.0	3484.7	3482.6	3486.7
30°	3360.1	3353.8	3341.4	3335.2	3320.6	3322.7	3326.8
32.5°	3160.7	3152.4	3135.8	3129.5	3117.1	3112.9	3115.0
35°	2911.5	2905.3	2890.8	2890.8	2878.3	2874.1	2878.3
37.5°	2658.2	2664.3	2658.2	2664.3	2658.2	2656.1	2658.2
40°	2419.4	2442.2	2446.3	2469.2	2460.9	2473.3	2471.3
42.5°	2190.9	2228.2	2242.9	2261.5	2257.4	2265.7	2271.9
45°	1960.4	1991.6	2006.1	2018.6	2020.6	2024.8	2026.9
47.5°	1742.3	1767.3	1769.3	1783.8	1781.8	1781.8	1788.0
50°	1538.9	1555.4	1559.5	1570.0	1561.7	1557.5	1559.5
52.5°	1349.9	1366.5	1362.3	1366.5	1356.1	1351.9	1354.0
55°	1156.7	1165.0	1165.0	1165.0	1152.6	1152.6	1152.6
57.5°	959.4	961.5	957.4	959.4	957.4	944.9	942.8
60°	778.8	778.8	776.7	778.8	772.5	766.3	766.3
62.5°	608.4	612.6	620.9	612.6	608.4	612.6	606.4
65°	454.8	463.1	461.0	465.2	463.1	463.1	458.9
67.5°	342.7	344.7	346.8	348.9	348.9	348.9	348.9
70°	251.3	257.5	255.4	255.4	255.4	255.4	267.9
72.5°	168.2	176.5	174.5	178.6	178.6	182.8	178.6
75°	114.2	122.5	118.4	124.6	122.5	118.4	128.7
77.5°	76.8	81.0	83.1	85.1	83.1	81.0	83.1
80°	54.0	58.1	56.1	58.1	58.1	58.1	60.3
82.5°	33.3	39.5	37.4	39.5	37.4	39.5	39.5
85°	22.8	25.0	20.8	25.0	22.8	22.8	27.0
87.5°	14.5	12.5	12.5	14.5	12.5	14.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)