

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: P248898

Luminaire Tested: **LD8B120D010 ER8B120840 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248898
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: LD8B120D010 ER8B120840 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9360.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

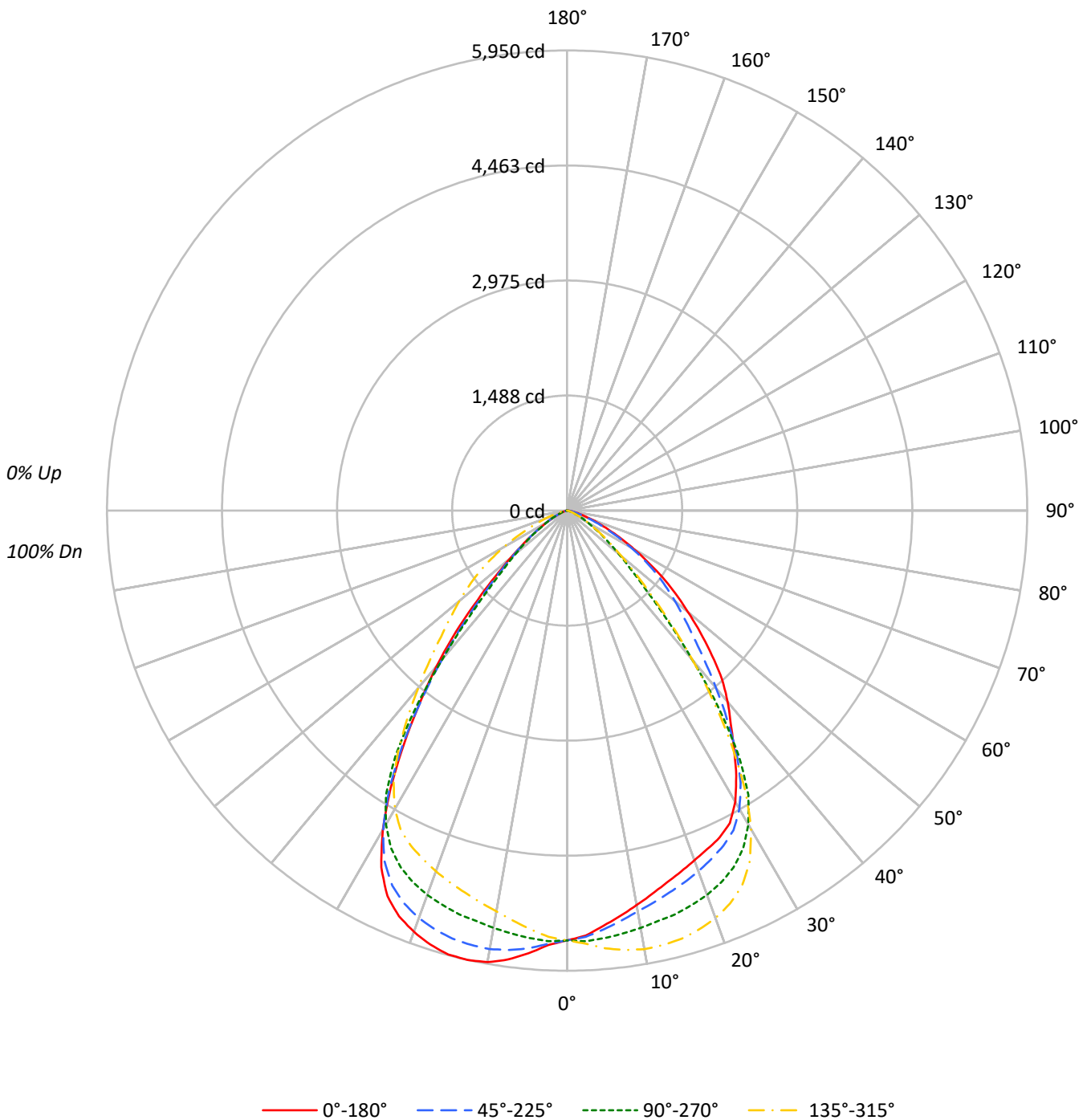
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248898

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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°	171348	171348	171348	171348
5°	166796	171752	177884	171752
10°	162184	171527	185630	171527
15°	158944	172547	189693	172547
20°	157861	173531	190181	173531
25°	158692	173183	187126	173183
30°	154768	166842	169844	166842
35°	141565	145547	138090	145547
40°	129972	101243	105727	101243
45°	115481	61764	71467	61764
50°	97749	41257	45819	41257
55°	80959	28155	29757	28155
60°	61747	18742	18909	18742
65°	43750	11674	10689	11674
70°	31556	7826	7096	7826
75°	20040	3884	3229	3884
80°	13975	2895	2397	2895
85°	12489	0	955	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.9	5.7
10°-20°	1531.6	16.4
20°-30°	2319.1	24.8
30°-40°	2324.4	24.8
40°-50°	1459.6	15.6
50°-60°	777.8	8.3
60°-70°	319.8	3.4
70°-80°	84.5	0.9
80°-90°	14.3	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°	4379.6	46.8
0°-40°	6704.0	71.6
0°-60°	8941.4	95.5
0°-90°	9360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9360.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5557	5557	5557	5557	5557	
5°	5388	5549	5747	5549	5388	508
15°	4979	5405	5942	5405	4979	1408
25°	4664	5090	5500	5090	4664	2139
35°	3761	3866	3668	3866	3761	2356
45°	2648	1416	1639	1416	2648	2037
55°	1506	524	554	524	1506	1343
65°	600	160	146	160	600	622
75°	168	33	27	33	168	191
85°	35	0	3	0	35	39
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°	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7
2.5°	5499.8	5494.3	5491.6	5497.1	5499.8	5510.6	5507.9	5513.3	5513.3	5516.1	5521.4
5°	5388.5	5385.8	5388.5	5388.5	5399.4	5410.2	5407.5	5415.7	5421.0	5434.7	5440.0
7.5°	5285.5	5285.5	5282.7	5293.5	5299.0	5315.3	5312.5	5326.1	5334.3	5347.8	5366.8
10°	5179.6	5179.6	5182.3	5190.4	5193.2	5217.6	5217.6	5236.5	5247.4	5261.0	5285.5
12.5°	5076.5	5076.5	5092.8	5087.3	5098.2	5117.2	5125.3	5144.3	5160.6	5187.7	5212.2
15°	4978.8	4978.8	4984.3	4997.8	5005.9	5030.4	5043.9	5065.7	5084.7	5111.8	5147.1
17.5°	4894.7	4892.0	4894.7	4911.0	4927.3	4949.0	4959.8	4986.9	5005.9	5041.2	5073.8
20°	4810.6	4816.1	4816.1	4829.6	4840.4	4867.6	4878.4	4908.3	4930.0	4962.5	5000.6
22.5°	4737.3	4734.7	4734.7	4753.6	4761.8	4786.1	4797.0	4824.1	4848.6	4875.7	4911.0
25°	4664.1	4658.6	4669.6	4672.2	4677.6	4704.7	4712.9	4731.9	4756.3	4780.8	4816.1
27.5°	4555.5	4550.2	4552.8	4563.7	4571.8	4593.5	4599.0	4618.0	4636.9	4658.6	4688.5
30°	4346.6	4341.2	4338.5	4357.5	4365.7	4381.9	4390.0	4422.6	4428.0	4452.4	4474.1
32.5°	4069.8	4067.2	4072.6	4088.8	4097.0	4118.7	4129.6	4148.6	4162.1	4175.7	4197.4
35°	3760.6	3755.1	3760.6	3776.9	3776.9	3795.9	3804.0	3812.1	3809.4	3812.1	3806.7
37.5°	3473.0	3470.2	3473.0	3481.1	3473.0	3481.1	3473.0	3456.7	3426.9	3394.3	3361.7
40°	3228.8	3231.5	3215.3	3226.1	3196.2	3190.8	3161.0	3120.2	3060.6	2995.5	2903.2
42.5°	2968.3	2960.2	2949.3	2954.7	2930.4	2911.3	2862.5	2811.0	2734.9	2626.5	2515.1
45°	2648.1	2645.5	2640.0	2637.3	2621.0	2602.0	2561.3	2501.6	2417.5	2306.3	2173.3
47.5°	2336.1	2328.0	2328.0	2330.6	2311.7	2309.0	2276.4	2224.9	2151.6	2043.1	1904.7
50°	2037.6	2034.9	2040.4	2051.2	2037.6	2032.2	2010.6	1975.3	1910.2	1817.9	1687.6
52.5°	1769.0	1766.3	1771.8	1785.3	1779.8	1785.3	1763.6	1736.5	1693.1	1603.5	1489.6
55°	1505.9	1505.9	1505.9	1522.1	1522.1	1522.1	1511.2	1495.1	1454.3	1389.2	1283.4
57.5°	1231.8	1234.5	1250.8	1253.5	1250.8	1256.3	1253.5	1237.2	1210.2	1164.0	1082.6
60°	1001.2	1001.2	1009.4	1017.5	1014.7	1017.5	1017.5	1009.4	982.2	944.3	879.1
62.5°	792.3	800.4	794.9	800.4	811.2	800.4	794.9	789.6	770.6	746.1	691.9
65°	599.6	605.1	605.1	607.8	602.3	605.1	594.2	586.1	575.3	548.1	512.8
67.5°	455.9	455.9	455.9	455.9	453.1	450.4	447.7	439.6	420.6	409.8	371.7
70°	350.0	333.7	333.7	333.7	333.7	336.5	328.3	317.5	312.0	293.0	265.9
72.5°	233.3	238.8	233.3	233.3	227.9	230.6	219.8	214.3	209.0	198.1	181.8
75°	168.2	154.7	160.0	162.8	154.7	160.0	149.2	138.4	138.4	130.2	122.1
77.5°	108.6	105.9	108.6	111.2	108.6	105.9	100.4	94.9	94.9	92.2	84.1
80°	78.7	75.9	75.9	75.9	73.3	75.9	70.6	70.6	65.1	62.4	57.0
82.5°	51.6	51.6	48.8	51.6	48.8	51.6	43.4	43.4	43.4	40.7	35.3
85°	35.3	29.8	29.8	32.6	27.1	32.6	29.8	27.1	24.5	24.5	21.7
87.5°	16.3	19.0	16.3	19.0	16.3	16.3	19.0	16.3	16.3	10.8	10.8
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: P248898

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7
2.5°	5529.6	5532.3	5532.3	5543.2	5548.6	5551.3	5551.3	5573.0	5564.9	5570.4	5575.7
5°	5451.0	5467.2	5472.6	5472.6	5502.5	5513.3	5524.1	5548.6	5551.3	5567.6	5586.6
7.5°	5374.9	5393.9	5404.9	5429.2	5448.2	5467.2	5499.8	5516.1	5532.3	5554.1	5578.4
10°	5301.7	5323.4	5345.1	5364.1	5393.9	5418.4	5440.0	5478.0	5497.1	5526.9	5559.4
12.5°	5231.2	5261.0	5280.0	5312.5	5345.1	5366.8	5399.4	5434.7	5464.5	5494.3	5532.3
15°	5168.8	5204.1	5225.7	5261.0	5296.3	5326.1	5361.4	5404.9	5426.5	5461.8	5497.1
17.5°	5100.9	5138.9	5166.1	5198.6	5242.0	5274.5	5304.5	5347.8	5374.9	5412.9	5453.7
20°	5030.4	5068.4	5100.9	5133.5	5176.9	5209.4	5244.7	5288.1	5318.0	5355.9	5388.5
22.5°	4946.3	4981.6	5016.8	5054.7	5098.2	5125.3	5166.1	5204.1	5236.5	5271.8	5304.5
25°	4837.7	4881.2	4908.3	4943.5	4978.8	5008.6	5052.1	5090.0	5117.2	5149.8	5179.6
27.5°	4710.2	4742.8	4764.5	4794.3	4829.6	4856.7	4889.2	4927.3	4954.4	4984.3	5005.9
30°	4493.1	4523.0	4542.0	4563.7	4599.0	4623.4	4650.6	4685.7	4704.7	4726.5	4745.5
32.5°	4208.2	4232.7	4243.5	4259.8	4284.3	4308.6	4330.4	4360.2	4368.4	4381.9	4381.9
35°	3795.9	3801.2	3798.6	3804.0	3814.9	3828.4	3847.4	3866.4	3877.2	3877.2	3869.1
37.5°	3312.9	3280.4	3245.1	3217.9	3209.8	3204.3	3215.3	3223.3	3234.2	3239.6	3226.1
40°	2811.0	2737.7	2659.0	2588.4	2539.6	2517.9	2509.8	2515.1	2515.1	2534.1	2534.1
42.5°	2379.6	2265.5	2148.9	2043.1	1972.5	1918.3	1893.9	1893.9	1896.5	1910.2	1918.3
45°	2021.4	1877.6	1741.9	1625.3	1527.6	1457.0	1424.5	1416.3	1413.6	1419.0	1438.0
47.5°	1747.3	1598.1	1457.0	1313.2	1210.2	1139.6	1109.8	1098.8	1088.0	1098.8	1101.6
50°	1533.0	1378.4	1229.1	1085.3	976.8	914.3	876.4	860.0	857.4	857.4	862.8
52.5°	1337.6	1193.9	1044.7	898.1	784.1	724.5	689.2	681.0	670.2	681.0	681.0
55°	1153.1	1009.4	862.8	724.5	629.4	567.1	534.5	523.7	518.2	526.3	526.3
57.5°	952.4	830.2	694.6	569.8	474.9	431.4	407.0	393.4	390.7	396.1	390.7
60°	781.4	678.3	561.6	447.7	374.5	328.3	309.4	303.9	298.4	303.9	303.9
62.5°	618.6	531.8	436.8	350.0	287.6	255.1	233.3	233.3	230.6	230.6	233.3
65°	458.6	390.7	322.9	249.6	200.8	176.3	160.0	160.0	157.4	160.0	157.4
67.5°	333.7	287.6	233.3	181.8	143.8	130.2	119.4	111.2	116.7	111.2	108.6
70°	244.2	206.2	168.2	138.4	111.2	97.7	89.6	86.8	81.4	81.4	81.4
72.5°	162.8	138.4	113.9	89.6	73.3	59.6	57.0	51.6	46.1	48.8	54.3
75°	108.6	92.2	81.4	65.1	48.8	48.8	32.6	32.6	27.1	32.6	24.5
77.5°	75.9	62.4	48.8	40.7	32.6	29.8	21.7	21.7	19.0	19.0	19.0
80°	54.3	46.1	35.3	29.8	21.7	21.7	19.0	16.3	13.5	13.5	16.3
82.5°	32.6	24.5	24.5	21.7	13.5	10.8	8.2	10.8	5.5	5.5	5.5
85°	19.0	16.3	13.5	8.2	5.5	5.5	2.7	0.0	2.7	2.7	0.0
87.5°	10.8	5.5	5.5	2.7	0.0	2.7	2.7	0.0	0.0	0.0	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248898

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7
2.5°	5589.3	5586.6	5592.0	5592.0	5608.3	5605.5	5613.7	5613.7	5608.3	5611.0	5621.8
5°	5608.3	5616.5	5632.7	5646.3	5670.6	5681.6	5695.1	5708.7	5711.4	5719.6	5727.7
7.5°	5608.3	5635.5	5654.5	5678.8	5711.4	5730.4	5760.2	5784.7	5795.5	5809.0	5825.3
10°	5597.4	5624.5	5659.8	5687.0	5727.7	5757.5	5787.4	5825.3	5841.6	5863.3	5885.1
12.5°	5575.7	5605.5	5643.5	5678.8	5724.9	5752.1	5790.0	5825.3	5849.8	5879.6	5904.1
15°	5543.2	5578.4	5613.7	5649.0	5697.8	5730.4	5765.7	5806.3	5830.8	5863.3	5885.1
17.5°	5491.6	5529.6	5562.2	5594.7	5640.8	5678.8	5711.4	5749.4	5773.8	5801.0	5830.8
20°	5429.2	5464.5	5499.8	5526.9	5573.0	5605.5	5640.8	5676.1	5695.1	5700.6	5746.7
22.5°	5350.6	5374.9	5402.1	5445.5	5472.6	5502.5	5535.1	5567.6	5586.6	5616.5	5632.7
25°	5220.2	5244.7	5274.5	5293.5	5326.1	5350.6	5383.1	5418.4	5429.2	5451.0	5467.2
27.5°	5038.5	5052.1	5065.7	5081.9	5100.9	5114.5	5133.5	5149.8	5160.6	5171.4	5182.3
30°	4750.9	4750.9	4750.9	4740.0	4748.2	4756.3	4759.0	4756.3	4756.3	4753.6	4753.6
32.5°	4371.0	4349.4	4324.9	4303.2	4295.1	4284.3	4278.8	4270.6	4257.1	4249.0	4251.6
35°	3858.2	3809.4	3779.6	3752.4	3730.8	3714.5	3706.3	3698.2	3695.5	3684.6	3673.7
37.5°	3217.9	3182.6	3161.0	3144.7	3125.7	3109.4	3112.1	3114.9	3122.9	3117.5	3120.2
40°	2539.6	2531.4	2539.6	2520.6	2515.1	2520.6	2534.1	2553.2	2564.1	2574.9	2593.9
42.5°	1931.8	1945.3	1964.4	1964.4	1972.5	1983.4	1999.6	2029.6	2045.7	2064.7	2086.5
45°	1454.3	1470.6	1495.1	1503.1	1508.6	1522.1	1541.2	1565.5	1576.4	1592.7	1611.6
47.5°	1120.6	1131.4	1144.9	1158.6	1172.1	1177.6	1196.5	1196.5	1210.2	1221.0	1226.4
50°	873.7	884.5	895.3	903.5	909.0	917.1	922.5	930.6	933.3	938.8	941.5
52.5°	683.7	697.3	697.3	702.7	710.8	719.0	716.3	719.0	721.7	721.7	729.8
55°	534.5	534.5	542.7	542.7	548.1	545.3	548.1	548.1	548.1	548.1	550.8
57.5°	398.8	401.6	409.8	404.3	401.6	407.0	401.6	407.0	404.3	409.8	401.6
60°	306.6	306.6	309.4	309.4	312.0	312.0	312.0	309.4	309.4	306.6	306.6
62.5°	230.6	233.3	236.1	233.3	233.3	233.3	230.6	230.6	227.9	225.1	225.1
65°	154.7	152.0	157.4	152.0	154.7	154.7	152.0	154.7	146.5	149.2	146.5
67.5°	111.2	108.6	105.9	108.6	105.9	103.1	103.1	105.9	108.6	100.4	100.4
70°	73.3	75.9	73.3	75.9	78.7	78.7	75.9	73.3	75.9	70.6	73.3
72.5°	46.1	46.1	46.1	46.1	46.1	48.8	48.8	48.8	43.4	43.4	40.7
75°	21.7	29.8	24.5	21.7	29.8	29.8	27.1	27.1	24.5	24.5	24.5
77.5°	21.7	16.3	16.3	16.3	16.3	16.3	16.3	16.3	13.5	16.3	13.5
80°	10.8	10.8	10.8	8.2	10.8	10.8	13.5	10.8	10.8	8.2	13.5
82.5°	5.5	5.5	5.5	0.0	2.7	5.5	5.5	2.7	5.5	5.5	2.7
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: P248898

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7
2.5°	5619.2	5616.5	5619.2	5621.8	5619.2	5616.5	5619.2	5621.8	5611.0	5608.3	5613.7
5°	5738.6	5738.6	5743.9	5746.7	5743.9	5738.6	5738.6	5727.7	5719.6	5711.4	5708.7
7.5°	5841.6	5847.1	5852.5	5855.1	5852.5	5847.1	5841.6	5825.3	5809.0	5795.5	5784.7
10°	5904.1	5912.2	5923.0	5928.4	5923.0	5912.2	5904.1	5885.1	5863.3	5841.6	5825.3
12.5°	5931.2	5939.4	5952.9	5950.2	5952.9	5939.4	5931.2	5904.1	5879.6	5849.8	5825.3
15°	5912.2	5923.0	5936.6	5942.0	5936.6	5923.0	5912.2	5885.1	5863.3	5830.8	5806.3
17.5°	5852.5	5868.8	5876.9	5885.1	5876.9	5868.8	5852.5	5830.8	5801.0	5773.8	5749.4
20°	5771.0	5782.0	5792.8	5795.5	5792.8	5782.0	5771.0	5746.7	5700.6	5695.1	5676.1
22.5°	5654.5	5662.6	5687.0	5678.8	5687.0	5662.6	5654.5	5632.7	5616.5	5586.6	5567.6
25°	5486.2	5494.3	5497.1	5499.8	5497.1	5494.3	5486.2	5467.2	5451.0	5429.2	5418.4
27.5°	5195.9	5195.9	5201.3	5204.1	5201.3	5195.9	5195.9	5182.3	5171.4	5160.6	5149.8
30°	4756.3	4756.3	4756.3	4770.0	4756.3	4756.3	4756.3	4753.6	4753.6	4756.3	4756.3
32.5°	4249.0	4243.5	4238.1	4243.5	4238.1	4243.5	4249.0	4251.6	4249.0	4257.1	4270.6
35°	3673.7	3671.0	3679.2	3668.3	3679.2	3671.0	3673.7	3673.7	3684.6	3695.5	3698.2
37.5°	3122.9	3117.5	3128.4	3117.5	3128.4	3117.5	3122.9	3120.2	3117.5	3122.9	3114.9
40°	2599.3	2604.7	2604.7	2626.5	2604.7	2604.7	2599.3	2593.9	2574.9	2564.1	2553.2
42.5°	2097.3	2113.7	2108.2	2124.5	2108.2	2113.7	2097.3	2086.5	2064.7	2045.7	2029.6
45°	1622.5	1633.4	1633.4	1638.8	1633.4	1633.4	1622.5	1611.6	1592.7	1576.4	1565.5
47.5°	1245.3	1245.3	1245.3	1248.1	1245.3	1245.3	1245.3	1226.4	1221.0	1210.2	1196.5
50°	946.9	949.6	952.4	955.1	952.4	949.6	946.9	941.5	938.8	933.3	930.6
52.5°	727.1	729.8	724.5	729.8	724.5	729.8	727.1	729.8	721.7	721.7	719.0
55°	550.8	548.1	550.8	553.5	550.8	548.1	550.8	550.8	548.1	548.1	548.1
57.5°	404.3	398.8	398.8	398.8	398.8	398.8	404.3	401.6	409.8	404.3	407.0
60°	301.2	303.9	303.9	306.6	303.9	303.9	301.2	306.6	306.6	309.4	309.4
62.5°	222.5	230.6	225.1	230.6	225.1	230.6	222.5	225.1	225.1	227.9	230.6
65°	143.8	143.8	143.8	146.5	143.8	143.8	143.8	146.5	149.2	146.5	154.7
67.5°	97.7	100.4	105.9	103.1	105.9	100.4	97.7	100.4	100.4	108.6	105.9
70°	78.7	70.6	70.6	78.7	70.6	70.6	78.7	73.3	70.6	75.9	73.3
72.5°	46.1	40.7	46.1	46.1	46.1	40.7	46.1	40.7	43.4	43.4	48.8
75°	24.5	21.7	19.0	27.1	19.0	21.7	24.5	24.5	24.5	24.5	27.1
77.5°	16.3	13.5	19.0	19.0	19.0	13.5	16.3	13.5	16.3	13.5	16.3
80°	8.2	10.8	8.2	13.5	8.2	10.8	8.2	13.5	8.2	10.8	10.8
82.5°	2.7	5.5	5.5	5.5	5.5	5.5	2.7	2.7	5.5	5.5	2.7
85°	0.0	5.5	2.7	2.7	2.7	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	2.7	0.0	0.0	2.7	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: P248898

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7
2.5°	5613.7	5605.5	5608.3	5592.0	5592.0	5586.6	5589.3	5575.7	5570.4	5564.9	5573.0
5°	5695.1	5681.6	5670.6	5646.3	5632.7	5616.5	5608.3	5586.6	5567.6	5551.3	5548.6
7.5°	5760.2	5730.4	5711.4	5678.8	5654.5	5635.5	5608.3	5578.4	5554.1	5532.3	5516.1
10°	5787.4	5757.5	5727.7	5687.0	5659.8	5624.5	5597.4	5559.4	5526.9	5497.1	5478.0
12.5°	5790.0	5752.1	5724.9	5678.8	5643.5	5605.5	5575.7	5532.3	5494.3	5464.5	5434.7
15°	5765.7	5730.4	5697.8	5649.0	5613.7	5578.4	5543.2	5497.1	5461.8	5426.5	5404.9
17.5°	5711.4	5678.8	5640.8	5594.7	5562.2	5529.6	5491.6	5453.7	5412.9	5374.9	5347.8
20°	5640.8	5605.5	5573.0	5526.9	5499.8	5464.5	5429.2	5388.5	5355.9	5318.0	5288.1
22.5°	5535.1	5502.5	5472.6	5445.5	5402.1	5374.9	5350.6	5304.5	5271.8	5236.5	5204.1
25°	5383.1	5350.6	5326.1	5293.5	5274.5	5244.7	5220.2	5179.6	5149.8	5117.2	5090.0
27.5°	5133.5	5114.5	5100.9	5081.9	5065.7	5052.1	5038.5	5005.9	4984.3	4954.4	4927.3
30°	4759.0	4756.3	4748.2	4740.0	4750.9	4750.9	4750.9	4745.5	4726.5	4704.7	4685.7
32.5°	4278.8	4284.3	4295.1	4303.2	4324.9	4349.4	4371.0	4381.9	4381.9	4368.4	4360.2
35°	3706.3	3714.5	3730.8	3752.4	3779.6	3809.4	3858.2	3869.1	3877.2	3877.2	3866.4
37.5°	3112.1	3109.4	3125.7	3144.7	3161.0	3182.6	3217.9	3226.1	3239.6	3234.2	3223.3
40°	2534.1	2520.6	2515.1	2520.6	2539.6	2531.4	2539.6	2534.1	2534.1	2515.1	2515.1
42.5°	1999.6	1983.4	1972.5	1964.4	1964.4	1945.3	1931.8	1918.3	1910.2	1896.5	1893.9
45°	1541.2	1522.1	1508.6	1503.1	1495.1	1470.6	1454.3	1438.0	1419.0	1413.6	1416.3
47.5°	1196.5	1177.6	1172.1	1158.6	1144.9	1131.4	1120.6	1101.6	1098.8	1088.0	1098.8
50°	922.5	917.1	909.0	903.5	895.3	884.5	873.7	862.8	857.4	857.4	860.0
52.5°	716.3	719.0	710.8	702.7	697.3	697.3	683.7	681.0	681.0	670.2	681.0
55°	548.1	545.3	548.1	542.7	542.7	534.5	534.5	526.3	526.3	518.2	523.7
57.5°	401.6	407.0	401.6	404.3	409.8	401.6	398.8	390.7	396.1	390.7	393.4
60°	312.0	312.0	312.0	309.4	309.4	306.6	306.6	303.9	303.9	298.4	303.9
62.5°	230.6	233.3	233.3	233.3	236.1	233.3	230.6	233.3	230.6	230.6	233.3
65°	152.0	154.7	154.7	152.0	157.4	152.0	154.7	157.4	160.0	157.4	160.0
67.5°	103.1	103.1	105.9	108.6	105.9	108.6	111.2	108.6	111.2	116.7	111.2
70°	75.9	78.7	78.7	75.9	73.3	75.9	73.3	81.4	81.4	81.4	86.8
72.5°	48.8	48.8	46.1	46.1	46.1	46.1	46.1	54.3	48.8	46.1	51.6
75°	27.1	29.8	29.8	21.7	24.5	29.8	21.7	24.5	32.6	27.1	32.6
77.5°	16.3	16.3	16.3	16.3	16.3	16.3	21.7	19.0	19.0	19.0	21.7
80°	13.5	10.8	10.8	8.2	10.8	10.8	10.8	16.3	13.5	13.5	16.3
82.5°	5.5	5.5	2.7	0.0	5.5	5.5	5.5	5.5	5.5	5.5	10.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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: P248898

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7
2.5°	5551.3	5551.3	5548.6	5543.2	5532.3	5532.3	5529.6	5521.4	5516.1	5513.3	5513.3
5°	5524.1	5513.3	5502.5	5472.6	5472.6	5467.2	5451.0	5440.0	5434.7	5421.0	5415.7
7.5°	5499.8	5467.2	5448.2	5429.2	5404.9	5393.9	5374.9	5366.8	5347.8	5334.3	5326.1
10°	5440.0	5418.4	5393.9	5364.1	5345.1	5323.4	5301.7	5285.5	5261.0	5247.4	5236.5
12.5°	5399.4	5366.8	5345.1	5312.5	5280.0	5261.0	5231.2	5212.2	5187.7	5160.6	5144.3
15°	5361.4	5326.1	5296.3	5261.0	5225.7	5204.1	5168.8	5147.1	5111.8	5084.7	5065.7
17.5°	5304.5	5274.5	5242.0	5198.6	5166.1	5138.9	5100.9	5073.8	5041.2	5005.9	4986.9
20°	5244.7	5209.4	5176.9	5133.5	5100.9	5068.4	5030.4	5000.6	4962.5	4930.0	4908.3
22.5°	5166.1	5125.3	5098.2	5054.7	5016.8	4981.6	4946.3	4911.0	4875.7	4848.6	4824.1
25°	5052.1	5008.6	4978.8	4943.5	4908.3	4881.2	4837.7	4816.1	4780.8	4756.3	4731.9
27.5°	4889.2	4856.7	4829.6	4794.3	4764.5	4742.8	4710.2	4688.5	4658.6	4636.9	4618.0
30°	4650.6	4623.4	4599.0	4563.7	4542.0	4523.0	4493.1	4474.1	4452.4	4428.0	4422.6
32.5°	4330.4	4308.6	4284.3	4259.8	4243.5	4232.7	4208.2	4197.4	4175.7	4162.1	4148.6
35°	3847.4	3828.4	3814.9	3804.0	3798.6	3801.2	3795.9	3806.7	3812.1	3809.4	3812.1
37.5°	3215.3	3204.3	3209.8	3217.9	3245.1	3280.4	3312.9	3361.7	3394.3	3426.9	3456.7
40°	2509.8	2517.9	2539.6	2588.4	2659.0	2737.7	2811.0	2903.2	2995.5	3060.6	3120.2
42.5°	1893.9	1918.3	1972.5	2043.1	2148.9	2265.5	2379.6	2515.1	2626.5	2734.9	2811.0
45°	1424.5	1457.0	1527.6	1625.3	1741.9	1877.6	2021.4	2173.3	2306.3	2417.5	2501.6
47.5°	1109.8	1139.6	1210.2	1313.2	1457.0	1598.1	1747.3	1904.7	2043.1	2151.6	2224.9
50°	876.4	914.3	976.8	1085.3	1229.1	1378.4	1533.0	1687.6	1817.9	1910.2	1975.3
52.5°	689.2	724.5	784.1	898.1	1044.7	1193.9	1337.6	1489.6	1603.5	1693.1	1736.5
55°	534.5	567.1	629.4	724.5	862.8	1009.4	1153.1	1283.4	1389.2	1454.3	1495.1
57.5°	407.0	431.4	474.9	569.8	694.6	830.2	952.4	1082.6	1164.0	1210.2	1237.2
60°	309.4	328.3	374.5	447.7	561.6	678.3	781.4	879.1	944.3	982.2	1009.4
62.5°	233.3	255.1	287.6	350.0	436.8	531.8	618.6	691.9	746.1	770.6	789.6
65°	160.0	176.3	200.8	249.6	322.9	390.7	458.6	512.8	548.1	575.3	586.1
67.5°	119.4	130.2	143.8	181.8	233.3	287.6	333.7	371.7	409.8	420.6	439.6
70°	89.6	97.7	111.2	138.4	168.2	206.2	244.2	265.9	293.0	312.0	317.5
72.5°	57.0	59.6	73.3	89.6	113.9	138.4	162.8	181.8	198.1	209.0	214.3
75°	32.6	48.8	48.8	65.1	81.4	92.2	108.6	122.1	130.2	138.4	138.4
77.5°	21.7	29.8	32.6	40.7	48.8	62.4	75.9	84.1	92.2	94.9	94.9
80°	19.0	21.7	21.7	29.8	35.3	46.1	54.3	57.0	62.4	65.1	70.6
82.5°	8.2	10.8	13.5	21.7	24.5	24.5	32.6	35.3	40.7	43.4	43.4
85°	2.7	5.5	5.5	8.2	13.5	16.3	19.0	21.7	24.5	24.5	27.1
87.5°	2.7	2.7	0.0	2.7	5.5	5.5	10.8	10.8	10.8	16.3	16.3
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: P248898

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7	5556.7
2.5°	5507.9	5510.6	5499.8	5497.1	5491.6	5494.3	5499.8
5°	5407.5	5410.2	5399.4	5388.5	5388.5	5385.8	5388.5
7.5°	5312.5	5315.3	5299.0	5293.5	5282.7	5285.5	5285.5
10°	5217.6	5217.6	5193.2	5190.4	5182.3	5179.6	5179.6
12.5°	5125.3	5117.2	5098.2	5087.3	5092.8	5076.5	5076.5
15°	5043.9	5030.4	5005.9	4997.8	4984.3	4978.8	4978.8
17.5°	4959.8	4949.0	4927.3	4911.0	4894.7	4892.0	4894.7
20°	4878.4	4867.6	4840.4	4829.6	4816.1	4816.1	4810.6
22.5°	4797.0	4786.1	4761.8	4753.6	4734.7	4734.7	4737.3
25°	4712.9	4704.7	4677.6	4672.2	4669.6	4658.6	4664.1
27.5°	4599.0	4593.5	4571.8	4563.7	4552.8	4550.2	4555.5
30°	4390.0	4381.9	4365.7	4357.5	4338.5	4341.2	4346.6
32.5°	4129.6	4118.7	4097.0	4088.8	4072.6	4067.2	4069.8
35°	3804.0	3795.9	3776.9	3776.9	3760.6	3755.1	3760.6
37.5°	3473.0	3481.1	3473.0	3481.1	3473.0	3470.2	3473.0
40°	3161.0	3190.8	3196.2	3226.1	3215.3	3231.5	3228.8
42.5°	2862.5	2911.3	2930.4	2954.7	2949.3	2960.2	2968.3
45°	2561.3	2602.0	2621.0	2637.3	2640.0	2645.5	2648.1
47.5°	2276.4	2309.0	2311.7	2330.6	2328.0	2328.0	2336.1
50°	2010.6	2032.2	2037.6	2051.2	2040.4	2034.9	2037.6
52.5°	1763.6	1785.3	1779.8	1785.3	1771.8	1766.3	1769.0
55°	1511.2	1522.1	1522.1	1522.1	1505.9	1505.9	1505.9
57.5°	1253.5	1256.3	1250.8	1253.5	1250.8	1234.5	1231.8
60°	1017.5	1017.5	1014.7	1017.5	1009.4	1001.2	1001.2
62.5°	794.9	800.4	811.2	800.4	794.9	800.4	792.3
65°	594.2	605.1	602.3	607.8	605.1	605.1	599.6
67.5°	447.7	450.4	453.1	455.9	455.9	455.9	455.9
70°	328.3	336.5	333.7	333.7	333.7	333.7	350.0
72.5°	219.8	230.6	227.9	233.3	233.3	238.8	233.3
75°	149.2	160.0	154.7	162.8	160.0	154.7	168.2
77.5°	100.4	105.9	108.6	111.2	108.6	105.9	108.6
80°	70.6	75.9	73.3	75.9	75.9	75.9	78.7
82.5°	43.4	51.6	48.8	51.6	48.8	51.6	51.6
85°	29.8	32.6	27.1	32.6	29.8	29.8	35.3
87.5°	19.0	16.3	16.3	19.0	16.3	19.0	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)