

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: P248907

Luminaire Tested: **LD8B120D010 ER8B120850 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248907
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 ER8B120850 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9543.0 lumens
Efficiency: N/A
Efficacy: 80.7 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

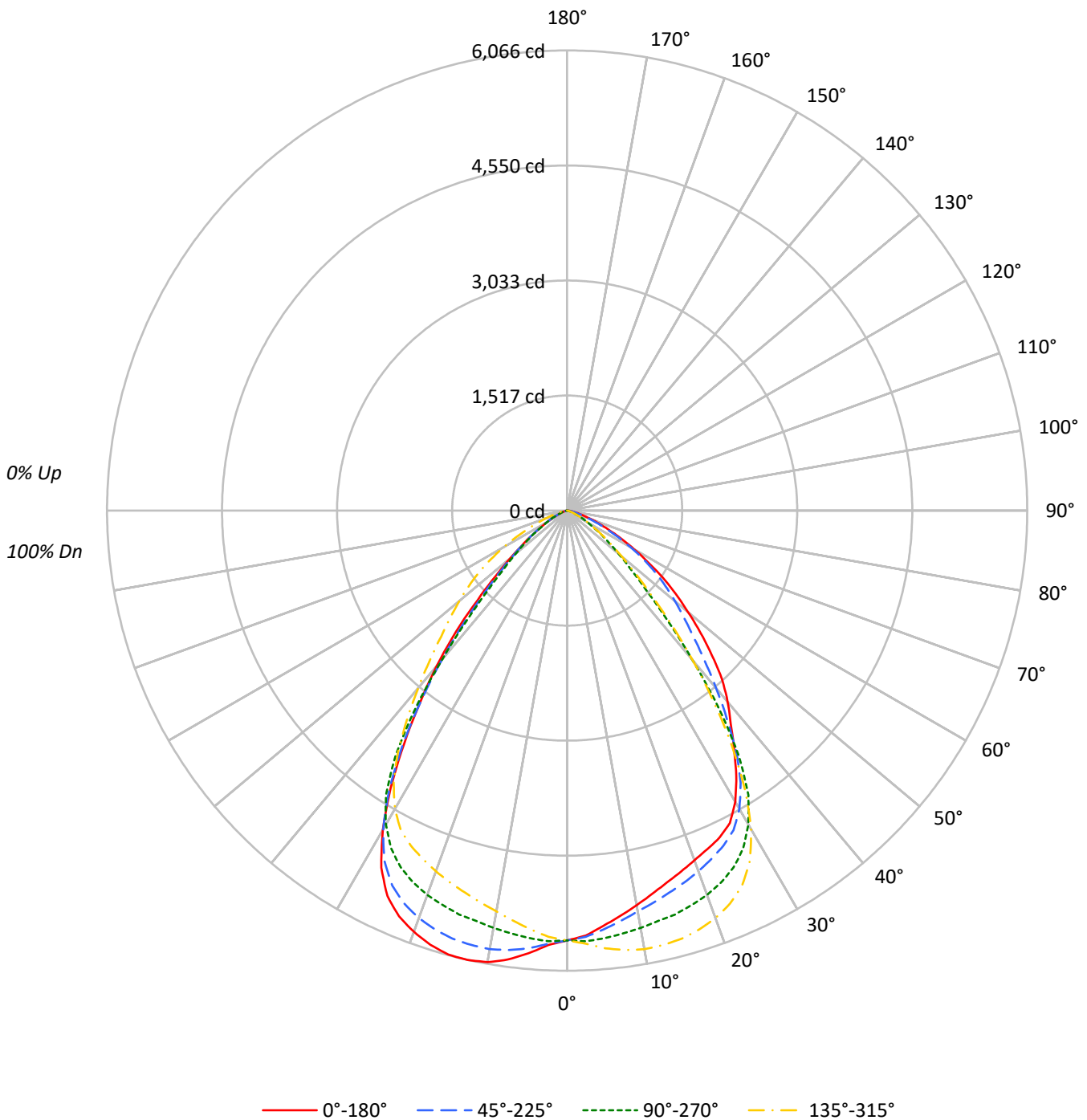
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	174700	174700	174700	174700
5°	170059	175110	181363	175110
10°	165356	174881	189259	174881
15°	162050	175918	193403	175918
20°	160949	176924	193899	176924
25°	161795	176568	190783	176568
30°	157795	170107	173163	170107
35°	144332	148390	140793	148390
40°	132512	103223	107792	103223
45°	117740	62972	72862	62972
50°	99659	42067	46716	42067
55°	82540	28703	30338	28703
60°	62955	19106	19279	19106
65°	44603	11908	10901	11908
70°	32169	7979	7240	7979
75°	20433	3956	3300	3956
80°	14260	2948	2451	2948
85°	12737	0	955	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.2	5.7
10°-20°	1561.5	16.4
20°-30°	2364.5	24.8
30°-40°	2369.8	24.8
40°-50°	1488.1	15.6
50°-60°	793.0	8.3
60°-70°	326.1	3.4
70°-80°	86.2	0.9
80°-90°	14.6	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°	4465.3	46.8
0°-40°	6835.0	71.6
0°-60°	9116.2	95.5
0°-90°	9543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9543.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5665	5665	5665	5665	5665	
5°	5494	5657	5859	5657	5494	518
15°	5076	5510	6058	5510	5076	1436
25°	4755	5190	5607	5190	4755	2181
35°	3834	3942	3740	3942	3834	2402
45°	2700	1444	1671	1444	2700	2076
55°	1535	534	564	534	1535	1369
65°	611	163	149	163	611	634
75°	172	33	28	33	172	194
85°	36	0	3	0	36	40
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°	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4
2.5°	5607.3	5601.7	5599.0	5604.6	5607.3	5618.4	5615.6	5621.1	5621.1	5623.9	5629.4
5°	5493.9	5491.1	5493.9	5493.9	5504.9	5516.0	5513.3	5521.6	5527.0	5540.9	5546.4
7.5°	5388.8	5388.8	5386.0	5397.0	5402.6	5419.2	5416.4	5430.2	5438.6	5452.3	5471.7
10°	5280.9	5280.9	5283.6	5291.9	5294.8	5319.6	5319.6	5338.9	5350.0	5363.9	5388.8
12.5°	5175.8	5175.8	5192.4	5186.8	5197.9	5217.2	5225.5	5244.9	5261.5	5289.2	5314.1
15°	5076.1	5076.1	5081.7	5095.5	5103.8	5128.7	5142.5	5164.7	5184.1	5211.7	5247.7
17.5°	4990.4	4987.7	4990.4	5007.0	5023.6	5045.7	5056.8	5084.4	5103.8	5139.8	5173.0
20°	4904.7	4910.2	4910.2	4924.0	4935.1	4962.7	4973.8	5004.3	5026.4	5059.5	5098.3
22.5°	4830.0	4827.2	4827.2	4846.6	4854.9	4879.7	4890.8	4918.4	4943.4	4971.0	5007.0
25°	4755.3	4749.7	4760.8	4763.6	4769.0	4796.7	4805.0	4824.4	4849.3	4874.3	4910.2
27.5°	4644.6	4639.1	4641.9	4652.9	4661.2	4683.3	4688.9	4708.2	4727.6	4749.7	4780.2
30°	4431.6	4426.1	4423.4	4442.7	4451.0	4467.5	4475.8	4509.1	4514.6	4539.5	4561.6
32.5°	4149.4	4146.7	4152.2	4168.8	4177.1	4199.3	4210.3	4229.7	4243.5	4257.3	4279.4
35°	3834.1	3828.5	3834.1	3850.7	3850.7	3870.1	3878.4	3886.6	3883.9	3886.6	3881.1
37.5°	3540.9	3538.1	3540.9	3549.1	3540.9	3549.1	3540.9	3524.3	3493.9	3460.6	3427.4
40°	3291.9	3294.6	3278.1	3289.2	3258.7	3253.2	3222.8	3181.2	3120.4	3054.0	2960.0
42.5°	3026.4	3018.1	3007.0	3012.5	2987.7	2968.2	2918.4	2865.9	2788.4	2677.8	2564.3
45°	2699.9	2697.2	2691.6	2688.9	2672.3	2652.9	2611.3	2550.5	2464.8	2351.4	2215.8
47.5°	2381.8	2373.5	2373.5	2376.2	2356.9	2354.1	2320.9	2268.4	2193.7	2083.0	1941.9
50°	2077.4	2074.7	2080.3	2091.3	2077.4	2072.0	2049.9	2013.9	1947.5	1853.5	1720.6
52.5°	1803.6	1800.9	1806.4	1820.2	1814.6	1820.2	1798.1	1770.5	1726.2	1634.8	1518.7
55°	1535.3	1535.3	1535.3	1551.8	1551.8	1551.8	1540.8	1524.3	1482.7	1416.3	1308.5
57.5°	1255.9	1258.6	1275.3	1278.0	1275.3	1280.8	1278.0	1261.4	1233.8	1186.8	1103.8
60°	1020.8	1020.8	1029.1	1037.4	1034.6	1037.4	1037.4	1029.1	1001.4	962.7	896.3
62.5°	807.7	816.1	810.5	816.1	827.1	816.1	810.5	805.0	785.7	760.7	705.4
65°	611.3	616.9	616.9	619.6	614.1	616.9	605.9	597.6	586.5	558.8	522.9
67.5°	464.8	464.8	464.8	464.8	461.9	459.2	456.5	448.2	428.8	417.8	378.9
70°	356.8	340.2	340.2	340.2	340.2	343.1	334.8	323.7	318.1	298.8	271.1
72.5°	237.9	243.4	237.9	237.9	232.4	235.1	224.1	218.5	213.0	202.0	185.4
75°	171.5	157.7	163.2	166.0	157.7	163.2	152.1	141.1	141.1	132.8	124.5
77.5°	110.7	107.9	110.7	113.4	110.7	107.9	102.4	96.8	96.8	94.1	85.7
80°	80.3	77.4	77.4	77.4	74.7	77.4	72.0	72.0	66.4	63.6	58.1
82.5°	52.6	52.6	49.8	52.6	49.8	52.6	44.3	44.3	44.3	41.4	36.0
85°	36.0	30.4	30.4	33.2	27.7	33.2	30.4	27.7	24.9	24.9	22.1
87.5°	16.6	19.4	16.6	19.4	16.6	16.6	19.4	16.6	16.6	11.0	11.0
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°	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4
2.5°	5637.7	5640.4	5640.4	5651.6	5657.1	5659.8	5659.8	5682.0	5673.7	5679.3	5684.7
5°	5557.5	5574.1	5579.6	5579.6	5610.0	5621.1	5632.1	5657.1	5659.8	5676.4	5695.8
7.5°	5480.0	5499.4	5510.5	5535.3	5554.7	5574.1	5607.3	5623.9	5640.4	5662.6	5687.5
10°	5405.3	5427.5	5449.6	5469.0	5499.4	5524.3	5546.4	5585.1	5604.6	5635.0	5668.1
12.5°	5333.5	5363.9	5383.2	5416.4	5449.6	5471.7	5504.9	5540.9	5571.3	5601.7	5640.4
15°	5269.8	5305.8	5327.9	5363.9	5399.8	5430.2	5466.2	5510.5	5532.6	5568.6	5604.6
17.5°	5200.6	5239.4	5267.1	5300.2	5344.5	5377.6	5408.2	5452.3	5480.0	5518.7	5560.3
20°	5128.7	5167.5	5200.6	5233.8	5278.1	5311.3	5347.2	5391.5	5421.9	5460.7	5493.9
22.5°	5043.0	5079.0	5114.8	5153.6	5197.9	5225.5	5267.1	5305.8	5338.9	5374.9	5408.2
25°	4932.3	4976.6	5004.3	5040.2	5076.1	5106.5	5150.8	5189.5	5217.2	5250.5	5280.9
27.5°	4802.3	4835.5	4857.6	4888.0	4924.0	4951.7	4984.8	5023.6	5051.3	5081.7	5103.8
30°	4580.9	4611.5	4630.8	4652.9	4688.9	4713.8	4741.5	4777.4	4796.7	4818.9	4838.3
32.5°	4290.5	4315.4	4326.5	4343.1	4368.0	4392.8	4415.0	4445.4	4453.8	4467.5	4467.5
35°	3870.1	3875.6	3872.8	3878.4	3889.5	3903.2	3922.6	3941.9	3953.0	3953.0	3944.8
37.5°	3377.6	3344.5	3308.5	3280.9	3272.5	3267.0	3278.1	3286.3	3297.5	3302.9	3289.2
40°	2865.9	2791.2	2711.0	2639.0	2589.2	2567.2	2558.8	2564.3	2564.3	2583.7	2583.7
42.5°	2426.1	2309.8	2191.0	2083.0	2011.1	1955.8	1930.9	1930.9	1933.6	1947.5	1955.8
45°	2060.9	1914.3	1775.9	1657.1	1557.4	1485.5	1452.3	1444.0	1441.3	1446.7	1466.1
47.5°	1781.5	1629.4	1485.5	1338.9	1233.8	1161.9	1131.5	1120.3	1109.3	1120.3	1123.1
50°	1563.0	1405.3	1253.2	1106.5	995.8	932.2	893.5	876.9	874.1	874.1	879.7
52.5°	1363.7	1217.2	1065.1	915.7	799.4	738.6	702.6	694.3	683.3	694.3	694.3
55°	1175.6	1029.1	879.7	738.6	641.7	578.2	544.9	533.9	528.3	536.6	536.6
57.5°	971.0	846.5	708.2	580.9	484.1	439.9	414.9	401.1	398.3	403.9	398.3
60°	796.7	691.6	572.6	456.5	381.8	334.8	315.4	309.8	304.2	309.8	309.8
62.5°	630.7	542.2	445.3	356.8	293.2	260.1	237.9	237.9	235.1	235.1	237.9
65°	467.5	398.3	329.2	254.5	204.7	179.8	163.2	163.2	160.4	163.2	160.4
67.5°	340.2	293.2	237.9	185.4	146.7	132.8	121.7	113.4	119.0	113.4	110.7
70°	249.0	210.2	171.5	141.1	113.4	99.6	91.3	88.5	83.0	83.0	83.0
72.5°	166.0	141.1	116.1	91.3	74.7	60.8	58.1	52.6	47.0	49.8	55.3
75°	110.7	94.1	83.0	66.4	49.8	49.8	33.2	33.2	27.7	33.2	24.9
77.5°	77.4	63.6	49.8	41.4	33.2	30.4	22.1	22.1	19.4	19.4	19.4
80°	55.3	47.0	36.0	30.4	22.1	22.1	19.4	16.6	13.8	13.8	16.6
82.5°	33.2	24.9	24.9	22.1	13.8	11.0	8.3	11.0	5.6	5.6	5.6
85°	19.4	16.6	13.8	8.3	5.6	5.6	2.7	0.0	2.7	2.7	0.0
87.5°	11.0	5.6	5.6	2.7	0.0	2.7	2.7	0.0	0.0	0.0	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4
2.5°	5698.6	5695.8	5701.4	5701.4	5718.0	5715.1	5723.4	5723.4	5718.0	5720.7	5731.8
5°	5718.0	5726.3	5742.8	5756.7	5781.5	5792.7	5806.5	5820.3	5823.1	5831.4	5839.7
7.5°	5718.0	5745.7	5765.0	5789.8	5823.1	5842.4	5872.8	5897.8	5908.8	5922.6	5939.2
10°	5706.8	5734.5	5770.5	5798.1	5839.7	5870.1	5900.5	5939.2	5955.8	5977.9	6000.1
12.5°	5684.7	5715.1	5753.8	5789.8	5836.9	5864.5	5903.2	5939.2	5964.2	5994.6	6019.5
15°	5651.6	5687.5	5723.4	5759.4	5809.2	5842.4	5878.4	5919.9	5944.8	5977.9	6000.1
17.5°	5599.0	5637.7	5671.0	5704.1	5751.1	5789.8	5823.1	5861.8	5886.7	5914.4	5944.8
20°	5535.3	5571.3	5607.3	5635.0	5682.0	5715.1	5751.1	5787.1	5806.5	5812.0	5859.1
22.5°	5455.2	5480.0	5507.7	5552.0	5579.6	5610.0	5643.3	5676.4	5695.8	5726.3	5742.8
25°	5322.3	5347.2	5377.6	5397.0	5430.2	5455.2	5488.3	5524.3	5535.3	5557.5	5574.1
27.5°	5137.1	5150.8	5164.7	5181.2	5200.6	5214.5	5233.8	5250.5	5261.5	5272.5	5283.6
30°	4843.7	4843.7	4843.7	4832.7	4841.0	4849.3	4852.1	4849.3	4849.3	4846.6	4846.6
32.5°	4456.5	4434.4	4409.5	4387.4	4379.1	4368.0	4362.4	4354.1	4340.4	4332.0	4334.8
35°	3933.6	3883.9	3853.5	3825.8	3803.7	3787.1	3778.8	3770.5	3767.7	3756.7	3745.5
37.5°	3280.9	3244.9	3222.8	3206.2	3186.8	3170.2	3172.9	3175.8	3184.0	3178.5	3181.2
40°	2589.2	2580.9	2589.2	2569.9	2564.3	2569.9	2583.7	2603.1	2614.2	2625.2	2644.6
42.5°	1969.6	1983.4	2002.9	2002.9	2011.1	2022.2	2038.7	2069.2	2085.7	2105.1	2127.3
45°	1482.7	1499.4	1524.3	1532.5	1538.1	1551.8	1571.3	1596.1	1607.2	1623.8	1643.2
47.5°	1142.5	1153.5	1167.3	1181.2	1195.0	1200.6	1219.9	1219.9	1233.8	1244.9	1250.3
50°	890.8	901.8	912.8	921.2	926.7	935.0	940.5	948.8	951.6	957.1	959.9
52.5°	697.1	711.0	711.0	716.4	724.7	733.1	730.3	733.1	735.8	735.8	744.1
55°	544.9	544.9	553.3	553.3	558.8	556.0	558.8	558.8	558.8	558.8	561.6
57.5°	406.6	409.5	417.8	412.2	409.5	414.9	409.5	414.9	412.2	417.8	409.5
60°	312.6	312.6	315.4	315.4	318.1	318.1	318.1	315.4	315.4	312.6	312.6
62.5°	235.1	237.9	240.7	237.9	237.9	237.9	235.1	235.1	232.4	229.5	229.5
65°	157.7	155.0	160.4	155.0	157.7	157.7	155.0	157.7	149.4	152.1	149.4
67.5°	113.4	110.7	107.9	110.7	107.9	105.1	105.1	107.9	110.7	102.4	102.4
70°	74.7	77.4	74.7	77.4	80.3	80.3	77.4	74.7	77.4	72.0	74.7
72.5°	47.0	47.0	47.0	47.0	47.0	49.8	49.8	49.8	44.3	44.3	41.4
75°	22.1	30.4	24.9	22.1	30.4	30.4	27.7	27.7	24.9	24.9	24.9
77.5°	22.1	16.6	16.6	16.6	16.6	16.6	16.6	16.6	13.8	16.6	13.8
80°	11.0	11.0	11.0	8.3	11.0	11.0	13.8	11.0	11.0	8.3	13.8
82.5°	5.6	5.6	5.6	0.0	2.7	5.6	5.6	2.7	5.6	5.6	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: P248907

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4
2.5°	5729.0	5726.3	5729.0	5731.8	5729.0	5726.3	5729.0	5731.8	5720.7	5718.0	5723.4
5°	5850.7	5850.7	5856.2	5859.1	5856.2	5850.7	5850.7	5839.7	5831.4	5823.1	5820.3
7.5°	5955.8	5961.4	5966.9	5969.6	5966.9	5961.4	5955.8	5939.2	5922.6	5908.8	5897.8
10°	6019.5	6027.8	6038.8	6044.3	6038.8	6027.8	6019.5	6000.1	5977.9	5955.8	5939.2
12.5°	6047.2	6055.5	6069.2	6066.5	6069.2	6055.5	6047.2	6019.5	5994.6	5964.2	5939.2
15°	6027.8	6038.8	6052.6	6058.2	6052.6	6038.8	6027.8	6000.1	5977.9	5944.8	5919.9
17.5°	5966.9	5983.5	5991.8	6000.1	5991.8	5983.5	5966.9	5944.8	5914.4	5886.7	5861.8
20°	5883.9	5895.0	5906.1	5908.8	5906.1	5895.0	5883.9	5859.1	5812.0	5806.5	5787.1
22.5°	5765.0	5773.3	5798.1	5789.8	5798.1	5773.3	5765.0	5742.8	5726.3	5695.8	5676.4
25°	5593.4	5601.7	5604.6	5607.3	5604.6	5601.7	5593.4	5574.1	5557.5	5535.3	5524.3
27.5°	5297.5	5297.5	5303.0	5305.8	5303.0	5297.5	5297.5	5283.6	5272.5	5261.5	5250.5
30°	4849.3	4849.3	4849.3	4863.2	4849.3	4849.3	4849.3	4846.6	4846.6	4849.3	4849.3
32.5°	4332.0	4326.5	4321.0	4326.5	4321.0	4326.5	4332.0	4334.8	4332.0	4340.4	4354.1
35°	3745.5	3742.8	3751.1	3740.1	3751.1	3742.8	3745.5	3745.5	3756.7	3767.7	3770.5
37.5°	3184.0	3178.5	3189.5	3178.5	3189.5	3178.5	3184.0	3181.2	3178.5	3184.0	3175.8
40°	2650.2	2655.6	2655.6	2677.8	2655.6	2655.6	2650.2	2644.6	2625.2	2614.2	2603.1
42.5°	2138.4	2155.0	2149.4	2166.0	2149.4	2155.0	2138.4	2127.3	2105.1	2085.7	2069.2
45°	1654.2	1665.4	1665.4	1670.8	1665.4	1665.4	1654.2	1643.2	1623.8	1607.2	1596.1
47.5°	1269.7	1269.7	1269.7	1272.5	1269.7	1269.7	1269.7	1250.3	1244.9	1233.8	1219.9
50°	965.4	968.2	971.0	973.8	971.0	968.2	965.4	959.9	957.1	951.6	948.8
52.5°	741.4	744.1	738.6	744.1	738.6	744.1	741.4	744.1	735.8	735.8	733.1
55°	561.6	558.8	561.6	564.3	561.6	558.8	561.6	561.6	558.8	558.8	558.8
57.5°	412.2	406.6	406.6	406.6	406.6	406.6	412.2	409.5	417.8	412.2	414.9
60°	307.1	309.8	309.8	312.6	309.8	309.8	307.1	312.6	312.6	315.4	315.4
62.5°	226.8	235.1	229.5	235.1	229.5	235.1	226.8	229.5	229.5	232.4	235.1
65°	146.7	146.7	146.7	149.4	146.7	146.7	146.7	149.4	152.1	149.4	157.7
67.5°	99.6	102.4	107.9	105.1	107.9	102.4	99.6	102.4	102.4	110.7	107.9
70°	80.3	72.0	72.0	80.3	72.0	72.0	80.3	74.7	72.0	77.4	74.7
72.5°	47.0	41.4	47.0	47.0	47.0	41.4	47.0	41.4	44.3	44.3	49.8
75°	24.9	22.1	19.4	27.7	19.4	22.1	24.9	24.9	24.9	24.9	27.7
77.5°	16.6	13.8	19.4	19.4	19.4	13.8	16.6	13.8	16.6	13.8	16.6
80°	8.3	11.0	8.3	13.8	8.3	11.0	8.3	13.8	8.3	11.0	11.0
82.5°	2.7	5.6	5.6	5.6	5.6	5.6	2.7	2.7	5.6	5.6	2.7
85°	0.0	5.6	2.7	2.7	2.7	5.6	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: P248907

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4
2.5°	5723.4	5715.1	5718.0	5701.4	5701.4	5695.8	5698.6	5684.7	5679.3	5673.7	5682.0
5°	5806.5	5792.7	5781.5	5756.7	5742.8	5726.3	5718.0	5695.8	5676.4	5659.8	5657.1
7.5°	5872.8	5842.4	5823.1	5789.8	5765.0	5745.7	5718.0	5687.5	5662.6	5640.4	5623.9
10°	5900.5	5870.1	5839.7	5798.1	5770.5	5734.5	5706.8	5668.1	5635.0	5604.6	5585.1
12.5°	5903.2	5864.5	5836.9	5789.8	5753.8	5715.1	5684.7	5640.4	5601.7	5571.3	5540.9
15°	5878.4	5842.4	5809.2	5759.4	5723.4	5687.5	5651.6	5604.6	5568.6	5532.6	5510.5
17.5°	5823.1	5789.8	5751.1	5704.1	5671.0	5637.7	5599.0	5560.3	5518.7	5480.0	5452.3
20°	5751.1	5715.1	5682.0	5635.0	5607.3	5571.3	5535.3	5493.9	5460.7	5421.9	5391.5
22.5°	5643.3	5610.0	5579.6	5552.0	5507.7	5480.0	5455.2	5408.2	5374.9	5338.9	5305.8
25°	5488.3	5455.2	5430.2	5397.0	5377.6	5347.2	5322.3	5280.9	5250.5	5217.2	5189.5
27.5°	5233.8	5214.5	5200.6	5181.2	5164.7	5150.8	5137.1	5103.8	5081.7	5051.3	5023.6
30°	4852.1	4849.3	4841.0	4832.7	4843.7	4843.7	4843.7	4838.3	4818.9	4796.7	4777.4
32.5°	4362.4	4368.0	4379.1	4387.4	4409.5	4434.4	4456.5	4467.5	4467.5	4453.8	4445.4
35°	3778.8	3787.1	3803.7	3825.8	3853.5	3883.9	3933.6	3944.8	3953.0	3953.0	3941.9
37.5°	3172.9	3170.2	3186.8	3206.2	3222.8	3244.9	3280.9	3289.2	3302.9	3297.5	3286.3
40°	2583.7	2569.9	2564.3	2569.9	2589.2	2580.9	2589.2	2583.7	2583.7	2564.3	2564.3
42.5°	2038.7	2022.2	2011.1	2002.9	2002.9	1983.4	1969.6	1955.8	1947.5	1933.6	1930.9
45°	1571.3	1551.8	1538.1	1532.5	1524.3	1499.4	1482.7	1466.1	1446.7	1441.3	1444.0
47.5°	1219.9	1200.6	1195.0	1181.2	1167.3	1153.5	1142.5	1123.1	1120.3	1109.3	1120.3
50°	940.5	935.0	926.7	921.2	912.8	901.8	890.8	879.7	874.1	874.1	876.9
52.5°	730.3	733.1	724.7	716.4	711.0	711.0	697.1	694.3	694.3	683.3	694.3
55°	558.8	556.0	558.8	553.3	553.3	544.9	544.9	536.6	536.6	528.3	533.9
57.5°	409.5	414.9	409.5	412.2	417.8	409.5	406.6	398.3	403.9	398.3	401.1
60°	318.1	318.1	318.1	315.4	315.4	312.6	312.6	309.8	309.8	304.2	309.8
62.5°	235.1	237.9	237.9	237.9	240.7	237.9	235.1	237.9	235.1	235.1	237.9
65°	155.0	157.7	157.7	155.0	160.4	155.0	157.7	160.4	163.2	160.4	163.2
67.5°	105.1	105.1	107.9	110.7	107.9	110.7	113.4	110.7	113.4	119.0	113.4
70°	77.4	80.3	80.3	77.4	74.7	77.4	74.7	83.0	83.0	83.0	88.5
72.5°	49.8	49.8	47.0	47.0	47.0	47.0	47.0	55.3	49.8	47.0	52.6
75°	27.7	30.4	30.4	22.1	24.9	30.4	22.1	24.9	33.2	27.7	33.2
77.5°	16.6	16.6	16.6	16.6	16.6	16.6	22.1	19.4	19.4	19.4	22.1
80°	13.8	11.0	11.0	8.3	11.0	11.0	11.0	16.6	13.8	13.8	16.6
82.5°	5.6	5.6	2.7	0.0	5.6	5.6	5.6	5.6	5.6	5.6	11.0
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	5.6	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: P248907

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4
2.5°	5659.8	5659.8	5657.1	5651.6	5640.4	5640.4	5637.7	5629.4	5623.9	5621.1	5621.1
5°	5632.1	5621.1	5610.0	5579.6	5579.6	5574.1	5557.5	5546.4	5540.9	5527.0	5521.6
7.5°	5607.3	5574.1	5554.7	5535.3	5510.5	5499.4	5480.0	5471.7	5452.3	5438.6	5430.2
10°	5546.4	5524.3	5499.4	5469.0	5449.6	5427.5	5405.3	5388.8	5363.9	5350.0	5338.9
12.5°	5504.9	5471.7	5449.6	5416.4	5383.2	5363.9	5333.5	5314.1	5289.2	5261.5	5244.9
15°	5466.2	5430.2	5399.8	5363.9	5327.9	5305.8	5269.8	5247.7	5211.7	5184.1	5164.7
17.5°	5408.2	5377.6	5344.5	5300.2	5267.1	5239.4	5200.6	5173.0	5139.8	5103.8	5084.4
20°	5347.2	5311.3	5278.1	5233.8	5200.6	5167.5	5128.7	5098.3	5059.5	5026.4	5004.3
22.5°	5267.1	5225.5	5197.9	5153.6	5114.8	5079.0	5043.0	5007.0	4971.0	4943.4	4918.4
25°	5150.8	5106.5	5076.1	5040.2	5004.3	4976.6	4932.3	4910.2	4874.3	4849.3	4824.4
27.5°	4984.8	4951.7	4924.0	4888.0	4857.6	4835.5	4802.3	4780.2	4749.7	4727.6	4708.2
30°	4741.5	4713.8	4688.9	4652.9	4630.8	4611.5	4580.9	4561.6	4539.5	4514.6	4509.1
32.5°	4415.0	4392.8	4368.0	4343.1	4326.5	4315.4	4290.5	4279.4	4257.3	4243.5	4229.7
35°	3922.6	3903.2	3889.5	3878.4	3872.8	3875.6	3870.1	3881.1	3886.6	3883.9	3886.6
37.5°	3278.1	3267.0	3272.5	3280.9	3308.5	3344.5	3377.6	3427.4	3460.6	3493.9	3524.3
40°	2558.8	2567.2	2589.2	2639.0	2711.0	2791.2	2865.9	2960.0	3054.0	3120.4	3181.2
42.5°	1930.9	1955.8	2011.1	2083.0	2191.0	2309.8	2426.1	2564.3	2677.8	2788.4	2865.9
45°	1452.3	1485.5	1557.4	1657.1	1775.9	1914.3	2060.9	2215.8	2351.4	2464.8	2550.5
47.5°	1131.5	1161.9	1233.8	1338.9	1485.5	1629.4	1781.5	1941.9	2083.0	2193.7	2268.4
50°	893.5	932.2	995.8	1106.5	1253.2	1405.3	1563.0	1720.6	1853.5	1947.5	2013.9
52.5°	702.6	738.6	799.4	915.7	1065.1	1217.2	1363.7	1518.7	1634.8	1726.2	1770.5
55°	544.9	578.2	641.7	738.6	879.7	1029.1	1175.6	1308.5	1416.3	1482.7	1524.3
57.5°	414.9	439.9	484.1	580.9	708.2	846.5	971.0	1103.8	1186.8	1233.8	1261.4
60°	315.4	334.8	381.8	456.5	572.6	691.6	796.7	896.3	962.7	1001.4	1029.1
62.5°	237.9	260.1	293.2	356.8	445.3	542.2	630.7	705.4	760.7	785.7	805.0
65°	163.2	179.8	204.7	254.5	329.2	398.3	467.5	522.9	558.8	586.5	597.6
67.5°	121.7	132.8	146.7	185.4	237.9	293.2	340.2	378.9	417.8	428.8	448.2
70°	91.3	99.6	113.4	141.1	171.5	210.2	249.0	271.1	298.8	318.1	323.7
72.5°	58.1	60.8	74.7	91.3	116.1	141.1	166.0	185.4	202.0	213.0	218.5
75°	33.2	49.8	49.8	66.4	83.0	94.1	110.7	124.5	132.8	141.1	141.1
77.5°	22.1	30.4	33.2	41.4	49.8	63.6	77.4	85.7	94.1	96.8	96.8
80°	19.4	22.1	22.1	30.4	36.0	47.0	55.3	58.1	63.6	66.4	72.0
82.5°	8.3	11.0	13.8	22.1	24.9	24.9	33.2	36.0	41.4	44.3	44.3
85°	2.7	5.6	5.6	8.3	13.8	16.6	19.4	22.1	24.9	24.9	27.7
87.5°	2.7	2.7	0.0	2.7	5.6	5.6	11.0	11.0	11.0	16.6	16.6
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: P248907

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4	5665.4
2.5°	5615.6	5618.4	5607.3	5604.6	5599.0	5601.7	5607.3
5°	5513.3	5516.0	5504.9	5493.9	5493.9	5491.1	5493.9
7.5°	5416.4	5419.2	5402.6	5397.0	5386.0	5388.8	5388.8
10°	5319.6	5319.6	5294.8	5291.9	5283.6	5280.9	5280.9
12.5°	5225.5	5217.2	5197.9	5186.8	5192.4	5175.8	5175.8
15°	5142.5	5128.7	5103.8	5095.5	5081.7	5076.1	5076.1
17.5°	5056.8	5045.7	5023.6	5007.0	4990.4	4987.7	4990.4
20°	4973.8	4962.7	4935.1	4924.0	4910.2	4910.2	4904.7
22.5°	4890.8	4879.7	4854.9	4846.6	4827.2	4827.2	4830.0
25°	4805.0	4796.7	4769.0	4763.6	4760.8	4749.7	4755.3
27.5°	4688.9	4683.3	4661.2	4652.9	4641.9	4639.1	4644.6
30°	4475.8	4467.5	4451.0	4442.7	4423.4	4426.1	4431.6
32.5°	4210.3	4199.3	4177.1	4168.8	4152.2	4146.7	4149.4
35°	3878.4	3870.1	3850.7	3850.7	3834.1	3828.5	3834.1
37.5°	3540.9	3549.1	3540.9	3549.1	3540.9	3538.1	3540.9
40°	3222.8	3253.2	3258.7	3289.2	3278.1	3294.6	3291.9
42.5°	2918.4	2968.2	2987.7	3012.5	3007.0	3018.1	3026.4
45°	2611.3	2652.9	2672.3	2688.9	2691.6	2697.2	2699.9
47.5°	2320.9	2354.1	2356.9	2376.2	2373.5	2373.5	2381.8
50°	2049.9	2072.0	2077.4	2091.3	2080.3	2074.7	2077.4
52.5°	1798.1	1820.2	1814.6	1820.2	1806.4	1800.9	1803.6
55°	1540.8	1551.8	1551.8	1551.8	1535.3	1535.3	1535.3
57.5°	1278.0	1280.8	1275.3	1278.0	1275.3	1258.6	1255.9
60°	1037.4	1037.4	1034.6	1037.4	1029.1	1020.8	1020.8
62.5°	810.5	816.1	827.1	816.1	810.5	816.1	807.7
65°	605.9	616.9	614.1	619.6	616.9	616.9	611.3
67.5°	456.5	459.2	461.9	464.8	464.8	464.8	464.8
70°	334.8	343.1	340.2	340.2	340.2	340.2	356.8
72.5°	224.1	235.1	232.4	237.9	237.9	243.4	237.9
75°	152.1	163.2	157.7	166.0	163.2	157.7	171.5
77.5°	102.4	107.9	110.7	113.4	110.7	107.9	110.7
80°	72.0	77.4	74.7	77.4	77.4	77.4	80.3
82.5°	44.3	52.6	49.8	52.6	49.8	52.6	52.6
85°	30.4	33.2	27.7	33.2	30.4	30.4	36.0
87.5°	19.4	16.6	16.6	19.4	16.6	19.4	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)