

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: P248799

Luminaire Tested: **LD8B120D010 ER8B120850 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248799
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11559.0 lumens
Efficiency: N/A
Efficacy: 97.7 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

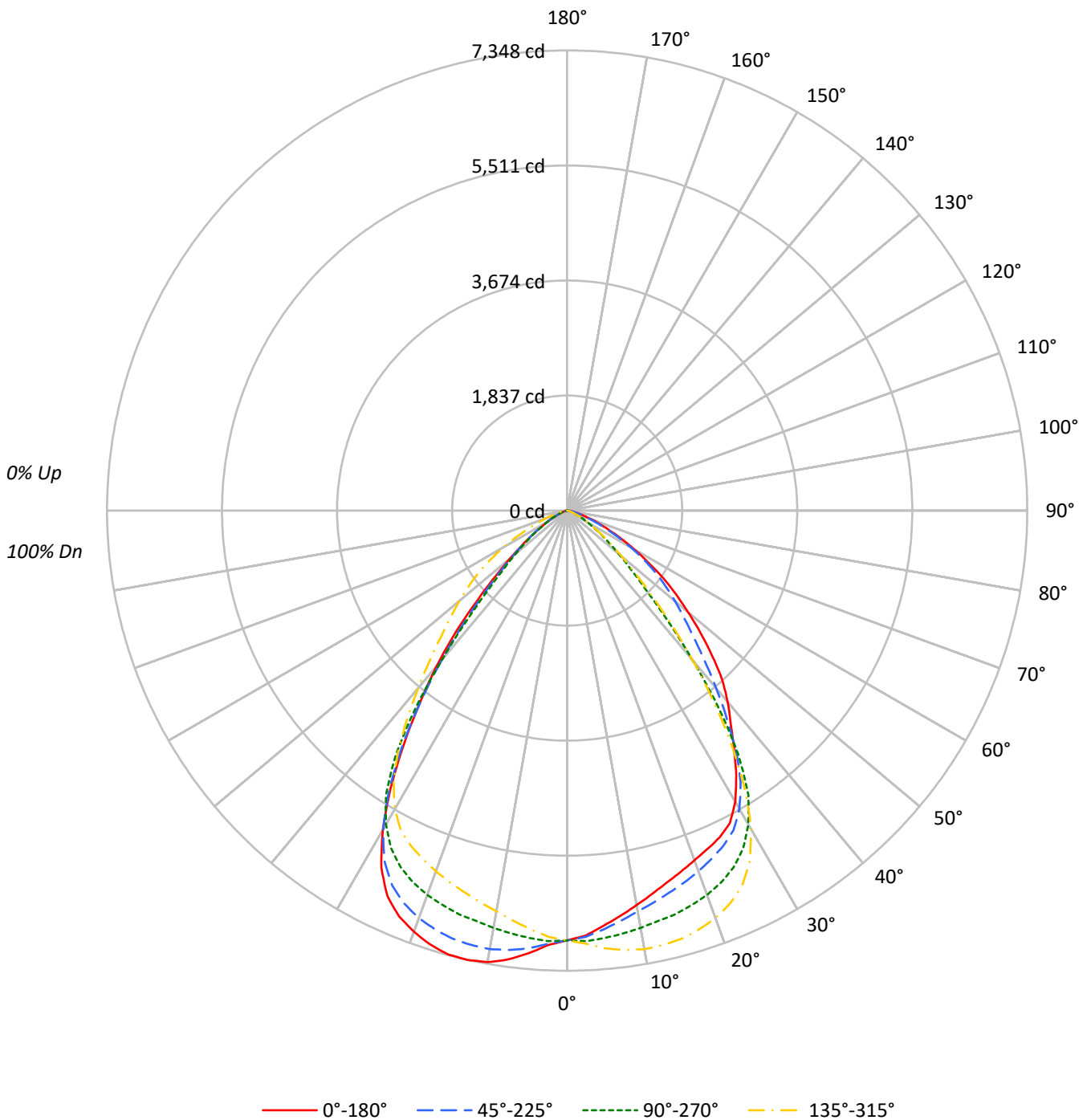
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	211605	211605	211605	211605
5°	205984	212101	219675	212101
10°	200287	211826	229242	211826
15°	196285	213081	234259	213081
20°	194949	214300	234863	214300
25°	195972	213872	231088	213872
30°	191126	206042	209745	206042
35°	174823	179740	170536	179740
40°	160505	125029	130564	125029
45°	142615	76277	88256	76277
50°	120714	50952	56584	50952
55°	99980	34768	36746	34768
60°	76252	23146	23349	23146
65°	54031	14418	13199	14418
70°	38967	9665	8763	9665
75°	24746	4801	3991	4801
80°	17261	3569	2966	3569
85°	15426	0	1168	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.2	5.7
10°-20°	1891.4	16.4
20°-30°	2864.0	24.8
30°-40°	2870.4	24.8
40°-50°	1802.5	15.6
50°-60°	960.5	8.3
60°-70°	395.0	3.4
70°-80°	104.4	0.9
80°-90°	17.7	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°	5408.6	46.8
0°-40°	8279.0	71.6
0°-60°	11042.0	95.5
0°-90°	11559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11559.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6862	6862	6862	6862	6862	
5°	6654	6852	7097	6852	6654	628
15°	6148	6675	7338	6675	6148	1739
25°	5760	6286	6792	6286	5760	2642
35°	4644	4775	4530	4775	4644	2910
45°	3270	1749	2024	1749	3270	2515
55°	1860	647	684	647	1860	1658
65°	740	198	181	198	740	768
75°	208	40	34	40	208	235
85°	44	0	3	0	44	48
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°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	6791.9	6785.1	6781.8	6788.6	6791.9	6805.3	6801.9	6808.6	6808.6	6812.0	6818.6
5°	6654.5	6651.1	6654.5	6654.5	6667.9	6681.3	6678.0	6688.0	6694.6	6711.5	6718.1
7.5°	6527.2	6527.2	6523.8	6537.1	6543.9	6564.0	6560.6	6577.4	6587.5	6604.2	6627.6
10°	6396.5	6396.5	6399.8	6409.8	6413.3	6443.4	6443.4	6466.8	6480.2	6497.0	6527.2
12.5°	6269.2	6269.2	6289.3	6282.5	6295.9	6319.4	6329.4	6352.9	6373.0	6406.5	6436.7
15°	6148.5	6148.5	6155.2	6171.9	6182.0	6212.2	6228.9	6255.8	6279.2	6312.7	6356.3
17.5°	6044.6	6041.3	6044.6	6064.8	6084.9	6111.7	6125.0	6158.6	6182.0	6225.6	6265.9
20°	5940.8	5947.5	5947.5	5964.2	5977.6	6011.1	6024.5	6061.5	6088.2	6128.4	6175.4
22.5°	5850.3	5847.0	5847.0	5870.4	5880.5	5910.6	5924.0	5957.5	5987.7	6021.2	6064.8
25°	5759.8	5753.1	5766.6	5769.9	5776.5	5810.0	5820.1	5843.6	5873.8	5904.0	5947.5
27.5°	5625.8	5619.2	5622.5	5635.9	5645.9	5672.7	5679.4	5702.9	5726.3	5753.1	5790.0
30°	5367.7	5361.1	5357.8	5381.3	5391.3	5411.3	5421.4	5461.7	5468.3	5498.5	5525.2
32.5°	5026.0	5022.7	5029.4	5049.4	5059.5	5086.4	5099.8	5123.2	5139.9	5156.7	5183.5
35°	4644.1	4637.3	4644.1	4664.2	4664.2	4687.7	4697.7	4707.7	4704.4	4707.7	4701.0
37.5°	4289.0	4285.5	4289.0	4298.9	4289.0	4298.9	4289.0	4268.8	4232.0	4191.7	4151.4
40°	3987.3	3990.6	3970.6	3984.0	3947.1	3940.4	3903.6	3853.3	3779.6	3699.2	3585.3
42.5°	3665.7	3655.6	3642.3	3648.9	3618.8	3595.2	3535.0	3471.4	3377.5	3243.5	3106.0
45°	3270.3	3267.0	3260.2	3256.9	3236.8	3213.3	3163.0	3089.3	2985.5	2848.1	2683.9
47.5°	2885.0	2874.9	2874.9	2878.2	2854.7	2851.4	2811.2	2747.6	2657.1	2523.1	2352.2
50°	2516.3	2513.0	2519.7	2533.1	2516.3	2509.7	2482.9	2439.3	2358.9	2245.0	2084.1
52.5°	2184.6	2181.3	2188.1	2204.7	2198.0	2204.7	2178.0	2144.5	2090.8	1980.2	1839.5
55°	1859.7	1859.7	1859.7	1879.7	1879.7	1879.7	1866.3	1846.3	1796.0	1715.6	1584.9
57.5°	1521.2	1524.5	1544.7	1548.0	1544.7	1551.4	1548.0	1527.8	1494.5	1437.5	1337.0
60°	1236.4	1236.4	1246.5	1256.6	1253.1	1256.6	1256.6	1246.5	1213.0	1166.1	1085.7
62.5°	978.4	988.5	981.7	988.5	1001.8	988.5	981.7	975.1	951.6	921.4	854.4
65°	740.5	747.2	747.2	750.5	743.8	747.2	733.9	723.8	710.4	676.9	633.3
67.5°	563.0	563.0	563.0	563.0	559.5	556.2	552.9	542.8	519.4	506.0	459.0
70°	432.2	412.1	412.1	412.1	412.1	415.5	405.5	392.1	385.3	361.9	328.4
72.5°	288.1	294.9	288.1	288.1	281.5	284.8	271.4	264.7	258.0	244.7	224.5
75°	207.7	191.0	197.6	201.1	191.0	197.6	184.3	170.9	170.9	160.8	150.7
77.5°	134.1	130.7	134.1	137.4	134.1	130.7	124.0	117.2	117.2	113.9	103.9
80°	97.2	93.8	93.8	93.8	90.5	93.8	87.2	87.2	80.4	77.1	70.3
82.5°	63.7	63.7	60.3	63.7	60.3	63.7	53.6	53.6	53.6	50.2	43.6
85°	43.6	36.8	36.8	40.3	33.5	40.3	36.8	33.5	30.2	30.2	26.8
87.5°	20.1	23.4	20.1	23.4	20.1	20.1	23.4	20.1	20.1	13.4	13.4
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°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	6828.7	6832.0	6832.0	6845.5	6852.1	6855.5	6855.5	6882.3	6872.3	6879.0	6885.7
5°	6731.6	6751.6	6758.4	6758.4	6795.2	6808.6	6821.9	6852.1	6855.5	6875.6	6899.0
7.5°	6637.7	6661.1	6674.6	6704.7	6728.2	6751.6	6791.9	6812.0	6832.0	6858.9	6889.0
10°	6547.2	6574.1	6600.9	6624.3	6661.1	6691.3	6718.1	6765.0	6788.6	6825.4	6865.5
12.5°	6460.2	6497.0	6520.5	6560.6	6600.9	6627.6	6667.9	6711.5	6748.3	6785.1	6832.0
15°	6383.1	6426.7	6453.4	6497.0	6540.6	6577.4	6621.0	6674.6	6701.4	6745.0	6788.6
17.5°	6299.2	6346.3	6379.8	6419.9	6473.6	6513.7	6550.7	6604.2	6637.7	6684.6	6734.9
20°	6212.2	6259.1	6299.2	6339.5	6393.2	6433.3	6476.9	6530.5	6567.3	6614.2	6654.5
22.5°	6108.4	6151.9	6195.4	6242.3	6295.9	6329.4	6379.8	6426.7	6466.8	6510.4	6550.7
25°	5974.3	6028.0	6061.5	6104.9	6148.5	6185.3	6239.0	6285.9	6319.4	6359.6	6396.5
27.5°	5816.8	5857.1	5883.8	5920.7	5964.2	5997.7	6037.9	6084.9	6118.4	6155.2	6182.0
30°	5548.7	5585.6	5609.1	5635.9	5679.4	5709.6	5743.2	5786.6	5810.0	5836.9	5860.4
32.5°	5196.9	5227.1	5240.4	5260.6	5290.8	5320.8	5347.7	5384.6	5394.6	5411.3	5411.3
35°	4687.7	4694.3	4691.0	4697.7	4711.1	4727.8	4751.3	4774.7	4788.1	4788.1	4778.1
37.5°	4091.2	4051.0	4007.5	3973.9	3963.9	3957.1	3970.6	3980.6	3994.1	4000.7	3984.0
40°	3471.4	3380.9	3283.7	3196.5	3136.2	3109.5	3099.4	3106.0	3106.0	3129.5	3129.5
42.5°	2938.6	2797.8	2653.8	2523.1	2435.9	2369.0	2338.8	2338.8	2342.1	2358.9	2369.0
45°	2496.3	2318.7	2151.1	2007.1	1886.4	1799.3	1759.1	1749.1	1745.8	1752.4	1775.8
47.5°	2157.9	1973.6	1799.3	1621.8	1494.5	1407.3	1370.5	1357.0	1343.6	1357.0	1360.4
50°	1893.2	1702.2	1517.9	1340.3	1206.2	1129.1	1082.2	1062.1	1058.8	1058.8	1065.5
52.5°	1651.8	1474.3	1290.1	1109.1	968.3	894.7	851.1	841.0	827.6	841.0	841.0
55°	1424.0	1246.5	1065.5	894.7	777.3	700.3	660.1	646.7	639.9	650.0	650.0
57.5°	1176.2	1025.3	857.8	703.7	586.4	532.8	502.6	485.9	482.4	489.2	482.4
60°	965.0	837.7	693.6	552.9	462.4	405.5	382.0	375.3	368.5	375.3	375.3
62.5°	763.9	656.8	539.4	432.2	355.1	315.0	288.1	288.1	284.8	284.8	288.1
65°	566.3	482.4	398.7	308.2	248.0	217.8	197.6	197.6	194.3	197.6	194.3
67.5°	412.1	355.1	288.1	224.5	177.6	160.8	147.4	137.4	144.1	137.4	134.1
70°	301.6	254.6	207.7	170.9	137.4	120.7	110.6	107.2	100.5	100.5	100.5
72.5°	201.1	170.9	140.7	110.6	90.5	73.6	70.3	63.7	57.0	60.3	67.0
75°	134.1	113.9	100.5	80.4	60.3	60.3	40.3	40.3	33.5	40.3	30.2
77.5°	93.8	77.1	60.3	50.2	40.3	36.8	26.8	26.8	23.4	23.4	23.4
80°	67.0	57.0	43.6	36.8	26.8	26.8	23.4	20.1	16.7	16.7	20.1
82.5°	40.3	30.2	30.2	26.8	16.7	13.4	10.1	13.4	6.8	6.8	6.8
85°	23.4	20.1	16.7	10.1	6.8	6.8	3.3	0.0	3.3	3.3	0.0
87.5°	13.4	6.8	6.8	3.3	0.0	3.3	3.3	0.0	0.0	0.0	6.8
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°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	6902.5	6899.0	6905.8	6905.8	6925.9	6922.5	6932.6	6932.6	6925.9	6929.2	6942.6
5°	6925.9	6936.0	6956.0	6972.8	7002.9	7016.4	7033.1	7049.9	7053.2	7063.3	7073.4
7.5°	6925.9	6959.4	6982.9	7013.0	7053.2	7076.7	7113.5	7143.7	7157.1	7173.8	7193.9
10°	6912.4	6945.9	6989.5	7023.0	7073.4	7110.2	7147.0	7193.9	7214.0	7240.8	7267.7
12.5°	6885.7	6922.5	6969.4	7013.0	7069.9	7103.4	7150.3	7193.9	7224.1	7260.9	7291.1
15°	6845.5	6889.0	6932.6	6976.1	7036.4	7076.7	7120.3	7170.5	7200.7	7240.8	7267.7
17.5°	6781.8	6828.7	6869.0	6909.1	6966.1	7013.0	7053.2	7100.1	7130.3	7163.8	7200.7
20°	6704.7	6748.3	6791.9	6825.4	6882.3	6922.5	6966.1	7009.6	7033.1	7039.8	7096.8
22.5°	6607.6	6637.7	6671.2	6724.8	6758.4	6795.2	6835.5	6875.6	6899.0	6936.0	6956.0
25°	6446.7	6476.9	6513.7	6537.1	6577.4	6607.6	6647.8	6691.3	6704.7	6731.6	6751.6
27.5°	6222.3	6239.0	6255.8	6275.8	6299.2	6316.1	6339.5	6359.6	6373.0	6386.4	6399.8
30°	5867.0	5867.0	5867.0	5853.6	5863.7	5873.8	5877.1	5873.8	5873.8	5870.4	5870.4
32.5°	5397.9	5371.2	5341.0	5314.2	5304.2	5290.8	5284.0	5274.0	5257.3	5247.2	5250.5
35°	4764.6	4704.4	4667.5	4634.0	4607.3	4587.1	4577.1	4567.0	4563.7	4550.3	4536.8
37.5°	3973.9	3930.4	3903.6	3883.5	3860.0	3839.9	3843.2	3846.7	3856.6	3850.0	3853.3
40°	3136.2	3126.2	3136.2	3112.8	3106.0	3112.8	3129.5	3153.1	3166.4	3179.8	3203.3
42.5°	2385.7	2402.4	2426.0	2426.0	2435.9	2449.4	2469.4	2506.4	2526.4	2549.8	2576.7
45°	1796.0	1816.1	1846.3	1856.2	1863.0	1879.7	1903.3	1933.3	1946.7	1966.8	1990.3
47.5°	1383.9	1397.2	1413.9	1430.8	1447.4	1454.2	1477.6	1477.6	1494.5	1507.8	1514.5
50°	1078.9	1092.3	1105.7	1115.8	1122.5	1132.6	1139.2	1149.3	1152.6	1159.3	1162.6
52.5°	844.3	861.2	861.2	867.8	877.8	887.9	884.6	887.9	891.2	891.2	901.3
55°	660.1	660.1	670.1	670.1	676.9	673.5	676.9	676.9	676.9	676.9	680.2
57.5°	492.5	496.0	506.0	499.3	496.0	502.6	496.0	502.6	499.3	506.0	496.0
60°	378.6	378.6	382.0	382.0	385.3	385.3	385.3	382.0	382.0	378.6	378.6
62.5°	284.8	288.1	291.6	288.1	288.1	288.1	284.8	284.8	281.5	278.0	278.0
65°	191.0	187.7	194.3	187.7	191.0	191.0	187.7	191.0	180.9	184.3	180.9
67.5°	137.4	134.1	130.7	134.1	130.7	127.3	127.3	130.7	134.1	124.0	124.0
70°	90.5	93.8	90.5	93.8	97.2	97.2	93.8	90.5	93.8	87.2	90.5
72.5°	57.0	57.0	57.0	57.0	57.0	60.3	60.3	60.3	53.6	53.6	50.2
75°	26.8	36.8	30.2	26.8	36.8	36.8	33.5	33.5	30.2	30.2	30.2
77.5°	26.8	20.1	20.1	20.1	20.1	20.1	20.1	20.1	16.7	20.1	16.7
80°	13.4	13.4	13.4	10.1	13.4	13.4	16.7	13.4	13.4	10.1	16.7
82.5°	6.8	6.8	6.8	0.0	3.3	6.8	6.8	3.3	6.8	6.8	3.3
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: P248799

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	6939.3	6936.0	6939.3	6942.6	6939.3	6936.0	6939.3	6942.6	6929.2	6925.9	6932.6
5°	7086.7	7086.7	7093.4	7096.8	7093.4	7086.7	7086.7	7073.4	7063.3	7053.2	7049.9
7.5°	7214.0	7220.8	7227.4	7230.7	7227.4	7220.8	7214.0	7193.9	7173.8	7157.1	7143.7
10°	7291.1	7301.2	7314.6	7321.2	7314.6	7301.2	7291.1	7267.7	7240.8	7214.0	7193.9
12.5°	7324.6	7334.7	7351.4	7348.1	7351.4	7334.7	7324.6	7291.1	7260.9	7224.1	7193.9
15°	7301.2	7314.6	7331.3	7338.0	7331.3	7314.6	7301.2	7267.7	7240.8	7200.7	7170.5
17.5°	7227.4	7247.6	7257.6	7267.7	7257.6	7247.6	7227.4	7200.7	7163.8	7130.3	7100.1
20°	7126.9	7140.4	7153.8	7157.1	7153.8	7140.4	7126.9	7096.8	7039.8	7033.1	7009.6
22.5°	6982.9	6993.0	7023.0	7013.0	7023.0	6993.0	6982.9	6956.0	6936.0	6899.0	6875.6
25°	6775.0	6785.1	6788.6	6791.9	6788.6	6785.1	6775.0	6751.6	6731.6	6704.7	6691.3
27.5°	6416.6	6416.6	6423.2	6426.7	6423.2	6416.6	6416.6	6399.8	6386.4	6373.0	6359.6
30°	5873.8	5873.8	5873.8	5890.6	5873.8	5873.8	5873.8	5870.4	5870.4	5873.8	5873.8
32.5°	5247.2	5240.4	5233.8	5240.4	5233.8	5240.4	5247.2	5250.5	5247.2	5257.3	5274.0
35°	4536.8	4533.5	4543.5	4530.2	4543.5	4533.5	4536.8	4536.8	4550.3	4563.7	4567.0
37.5°	3856.6	3850.0	3863.3	3850.0	3863.3	3850.0	3856.6	3853.3	3850.0	3856.6	3846.7
40°	3210.0	3216.6	3216.6	3243.5	3216.6	3216.6	3210.0	3203.3	3179.8	3166.4	3153.1
42.5°	2590.1	2610.2	2603.5	2623.6	2603.5	2610.2	2590.1	2576.7	2549.8	2526.4	2506.4
45°	2003.7	2017.2	2017.2	2023.8	2017.2	2017.2	2003.7	1990.3	1966.8	1946.7	1933.3
47.5°	1537.9	1537.9	1537.9	1541.4	1537.9	1537.9	1537.9	1514.5	1507.8	1494.5	1477.6
50°	1169.4	1172.7	1176.2	1179.5	1176.2	1172.7	1169.4	1162.6	1159.3	1152.6	1149.3
52.5°	898.0	901.3	894.7	901.3	894.7	901.3	898.0	901.3	891.2	891.2	887.9
55°	680.2	676.9	680.2	683.5	680.2	676.9	680.2	680.2	676.9	676.9	676.9
57.5°	499.3	492.5	492.5	492.5	492.5	492.5	499.3	496.0	506.0	499.3	502.6
60°	372.0	375.3	375.3	378.6	375.3	375.3	372.0	378.6	378.6	382.0	382.0
62.5°	274.7	284.8	278.0	284.8	278.0	284.8	274.7	278.0	278.0	281.5	284.8
65°	177.6	177.6	177.6	180.9	177.6	177.6	177.6	180.9	184.3	180.9	191.0
67.5°	120.7	124.0	130.7	127.3	130.7	124.0	120.7	124.0	124.0	134.1	130.7
70°	97.2	87.2	87.2	97.2	87.2	87.2	97.2	90.5	87.2	93.8	90.5
72.5°	57.0	50.2	57.0	57.0	57.0	50.2	57.0	50.2	53.6	53.6	60.3
75°	30.2	26.8	23.4	33.5	23.4	26.8	30.2	30.2	30.2	30.2	33.5
77.5°	20.1	16.7	23.4	23.4	23.4	16.7	20.1	16.7	20.1	16.7	20.1
80°	10.1	13.4	10.1	16.7	10.1	13.4	10.1	16.7	10.1	13.4	13.4
82.5°	3.3	6.8	6.8	6.8	6.8	6.8	3.3	3.3	6.8	6.8	3.3
85°	0.0	6.8	3.3	3.3	3.3	6.8	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	0.0	0.0	3.3	0.0	0.0	3.3	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: P248799

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	6932.6	6922.5	6925.9	6905.8	6905.8	6899.0	6902.5	6885.7	6879.0	6872.3	6882.3
5°	7033.1	7016.4	7002.9	6972.8	6956.0	6936.0	6925.9	6899.0	6875.6	6855.5	6852.1
7.5°	7113.5	7076.7	7053.2	7013.0	6982.9	6959.4	6925.9	6889.0	6858.9	6832.0	6812.0
10°	7147.0	7110.2	7073.4	7023.0	6989.5	6945.9	6912.4	6865.5	6825.4	6788.6	6765.0
12.5°	7150.3	7103.4	7069.9	7013.0	6969.4	6922.5	6885.7	6832.0	6785.1	6748.3	6711.5
15°	7120.3	7076.7	7036.4	6976.1	6932.6	6889.0	6845.5	6788.6	6745.0	6701.4	6674.6
17.5°	7053.2	7013.0	6966.1	6909.1	6869.0	6828.7	6781.8	6734.9	6684.6	6637.7	6604.2
20°	6966.1	6922.5	6882.3	6825.4	6791.9	6748.3	6704.7	6654.5	6614.2	6567.3	6530.5
22.5°	6835.5	6795.2	6758.4	6724.8	6671.2	6637.7	6607.6	6550.7	6510.4	6466.8	6426.7
25°	6647.8	6607.6	6577.4	6537.1	6513.7	6476.9	6446.7	6396.5	6359.6	6319.4	6285.9
27.5°	6339.5	6316.1	6299.2	6275.8	6255.8	6239.0	6222.3	6182.0	6155.2	6118.4	6084.9
30°	5877.1	5873.8	5863.7	5853.6	5867.0	5867.0	5867.0	5860.4	5836.9	5810.0	5786.6
32.5°	5284.0	5290.8	5304.2	5314.2	5341.0	5371.2	5397.9	5411.3	5411.3	5394.6	5384.6
35°	4577.1	4587.1	4607.3	4634.0	4667.5	4704.4	4764.6	4778.1	4788.1	4788.1	4774.7
37.5°	3843.2	3839.9	3860.0	3883.5	3903.6	3930.4	3973.9	3984.0	4000.7	3994.1	3980.6
40°	3129.5	3112.8	3106.0	3112.8	3136.2	3126.2	3136.2	3129.5	3129.5	3106.0	3106.0
42.5°	2469.4	2449.4	2435.9	2426.0	2426.0	2402.4	2385.7	2369.0	2358.9	2342.1	2338.8
45°	1903.3	1879.7	1863.0	1856.2	1846.3	1816.1	1796.0	1775.8	1752.4	1745.8	1749.1
47.5°	1477.6	1454.2	1447.4	1430.8	1413.9	1397.2	1383.9	1360.4	1357.0	1343.6	1357.0
50°	1139.2	1132.6	1122.5	1115.8	1105.7	1092.3	1078.9	1065.5	1058.8	1058.8	1062.1
52.5°	884.6	887.9	877.8	867.8	861.2	861.2	844.3	841.0	841.0	827.6	841.0
55°	676.9	673.5	676.9	670.1	670.1	660.1	660.1	650.0	650.0	639.9	646.7
57.5°	496.0	502.6	496.0	499.3	506.0	496.0	492.5	482.4	489.2	482.4	485.9
60°	385.3	385.3	385.3	382.0	382.0	378.6	378.6	375.3	375.3	368.5	375.3
62.5°	284.8	288.1	288.1	288.1	291.6	288.1	284.8	288.1	284.8	284.8	288.1
65°	187.7	191.0	191.0	187.7	194.3	187.7	191.0	194.3	197.6	194.3	197.6
67.5°	127.3	127.3	130.7	134.1	130.7	134.1	137.4	134.1	137.4	144.1	137.4
70°	93.8	97.2	97.2	93.8	90.5	93.8	90.5	100.5	100.5	100.5	107.2
72.5°	60.3	60.3	57.0	57.0	57.0	57.0	57.0	67.0	60.3	57.0	63.7
75°	33.5	36.8	36.8	26.8	30.2	36.8	26.8	30.2	40.3	33.5	40.3
77.5°	20.1	20.1	20.1	20.1	20.1	20.1	26.8	23.4	23.4	23.4	26.8
80°	16.7	13.4	13.4	10.1	13.4	13.4	13.4	20.1	16.7	16.7	20.1
82.5°	6.8	6.8	3.3	0.0	6.8	6.8	6.8	6.8	6.8	6.8	13.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	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: P248799

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	6855.5	6855.5	6852.1	6845.5	6832.0	6832.0	6828.7	6818.6	6812.0	6808.6	6808.6
5°	6821.9	6808.6	6795.2	6758.4	6758.4	6751.6	6731.6	6718.1	6711.5	6694.6	6688.0
7.5°	6791.9	6751.6	6728.2	6704.7	6674.6	6661.1	6637.7	6627.6	6604.2	6587.5	6577.4
10°	6718.1	6691.3	6661.1	6624.3	6600.9	6574.1	6547.2	6527.2	6497.0	6480.2	6466.8
12.5°	6667.9	6627.6	6600.9	6560.6	6520.5	6497.0	6460.2	6436.7	6406.5	6373.0	6352.9
15°	6621.0	6577.4	6540.6	6497.0	6453.4	6426.7	6383.1	6356.3	6312.7	6279.2	6255.8
17.5°	6550.7	6513.7	6473.6	6419.9	6379.8	6346.3	6299.2	6265.9	6225.6	6182.0	6158.6
20°	6476.9	6433.3	6393.2	6339.5	6299.2	6259.1	6212.2	6175.4	6128.4	6088.2	6061.5
22.5°	6379.8	6329.4	6295.9	6242.3	6195.4	6151.9	6108.4	6064.8	6021.2	5987.7	5957.5
25°	6239.0	6185.3	6148.5	6104.9	6061.5	6028.0	5974.3	5947.5	5904.0	5873.8	5843.6
27.5°	6037.9	5997.7	5964.2	5920.7	5883.8	5857.1	5816.8	5790.0	5753.1	5726.3	5702.9
30°	5743.2	5709.6	5679.4	5635.9	5609.1	5585.6	5548.7	5525.2	5498.5	5468.3	5461.7
32.5°	5347.7	5320.8	5290.8	5260.6	5240.4	5227.1	5196.9	5183.5	5156.7	5139.9	5123.2
35°	4751.3	4727.8	4711.1	4697.7	4691.0	4694.3	4687.7	4701.0	4707.7	4704.4	4707.7
37.5°	3970.6	3957.1	3963.9	3973.9	4007.5	4051.0	4091.2	4151.4	4191.7	4232.0	4268.8
40°	3099.4	3109.5	3136.2	3196.5	3283.7	3380.9	3471.4	3585.3	3699.2	3779.6	3853.3
42.5°	2338.8	2369.0	2435.9	2523.1	2653.8	2797.8	2938.6	3106.0	3243.5	3377.5	3471.4
45°	1759.1	1799.3	1886.4	2007.1	2151.1	2318.7	2496.3	2683.9	2848.1	2985.5	3089.3
47.5°	1370.5	1407.3	1494.5	1621.8	1799.3	1973.6	2157.9	2352.2	2523.1	2657.1	2747.6
50°	1082.2	1129.1	1206.2	1340.3	1517.9	1702.2	1893.2	2084.1	2245.0	2358.9	2439.3
52.5°	851.1	894.7	968.3	1109.1	1290.1	1474.3	1651.8	1839.5	1980.2	2090.8	2144.5
55°	660.1	700.3	777.3	894.7	1065.5	1246.5	1424.0	1584.9	1715.6	1796.0	1846.3
57.5°	502.6	532.8	586.4	703.7	857.8	1025.3	1176.2	1337.0	1437.5	1494.5	1527.8
60°	382.0	405.5	462.4	552.9	693.6	837.7	965.0	1085.7	1166.1	1213.0	1246.5
62.5°	288.1	315.0	355.1	432.2	539.4	656.8	763.9	854.4	921.4	951.6	975.1
65°	197.6	217.8	248.0	308.2	398.7	482.4	566.3	633.3	676.9	710.4	723.8
67.5°	147.4	160.8	177.6	224.5	288.1	355.1	412.1	459.0	506.0	519.4	542.8
70°	110.6	120.7	137.4	170.9	207.7	254.6	301.6	328.4	361.9	385.3	392.1
72.5°	70.3	73.6	90.5	110.6	140.7	170.9	201.1	224.5	244.7	258.0	264.7
75°	40.3	60.3	60.3	80.4	100.5	113.9	134.1	150.7	160.8	170.9	170.9
77.5°	26.8	36.8	40.3	50.2	60.3	77.1	93.8	103.9	113.9	117.2	117.2
80°	23.4	26.8	26.8	36.8	43.6	57.0	67.0	70.3	77.1	80.4	87.2
82.5°	10.1	13.4	16.7	26.8	30.2	30.2	40.3	43.6	50.2	53.6	53.6
85°	3.3	6.8	6.8	10.1	16.7	20.1	23.4	26.8	30.2	30.2	33.5
87.5°	3.3	3.3	0.0	3.3	6.8	6.8	13.4	13.4	13.4	20.1	20.1
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: P248799

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2	6862.2
2.5°	6801.9	6805.3	6791.9	6788.6	6781.8	6785.1	6791.9
5°	6678.0	6681.3	6667.9	6654.5	6654.5	6651.1	6654.5
7.5°	6560.6	6564.0	6543.9	6537.1	6523.8	6527.2	6527.2
10°	6443.4	6443.4	6413.3	6409.8	6399.8	6396.5	6396.5
12.5°	6329.4	6319.4	6295.9	6282.5	6289.3	6269.2	6269.2
15°	6228.9	6212.2	6182.0	6171.9	6155.2	6148.5	6148.5
17.5°	6125.0	6111.7	6084.9	6064.8	6044.6	6041.3	6044.6
20°	6024.5	6011.1	5977.6	5964.2	5947.5	5947.5	5940.8
22.5°	5924.0	5910.6	5880.5	5870.4	5847.0	5847.0	5850.3
25°	5820.1	5810.0	5776.5	5769.9	5766.6	5753.1	5759.8
27.5°	5679.4	5672.7	5645.9	5635.9	5622.5	5619.2	5625.8
30°	5421.4	5411.3	5391.3	5381.3	5357.8	5361.1	5367.7
32.5°	5099.8	5086.4	5059.5	5049.4	5029.4	5022.7	5026.0
35°	4697.7	4687.7	4664.2	4664.2	4644.1	4637.3	4644.1
37.5°	4289.0	4298.9	4289.0	4298.9	4289.0	4285.5	4289.0
40°	3903.6	3940.4	3947.1	3984.0	3970.6	3990.6	3987.3
42.5°	3535.0	3595.2	3618.8	3648.9	3642.3	3655.6	3665.7
45°	3163.0	3213.3	3236.8	3256.9	3260.2	3267.0	3270.3
47.5°	2811.2	2851.4	2854.7	2878.2	2874.9	2874.9	2885.0
50°	2482.9	2509.7	2516.3	2533.1	2519.7	2513.0	2516.3
52.5°	2178.0	2204.7	2198.0	2204.7	2188.1	2181.3	2184.6
55°	1866.3	1879.7	1879.7	1879.7	1859.7	1859.7	1859.7
57.5°	1548.0	1551.4	1544.7	1548.0	1544.7	1524.5	1521.2
60°	1256.6	1256.6	1253.1	1256.6	1246.5	1236.4	1236.4
62.5°	981.7	988.5	1001.8	988.5	981.7	988.5	978.4
65°	733.9	747.2	743.8	750.5	747.2	747.2	740.5
67.5°	552.9	556.2	559.5	563.0	563.0	563.0	563.0
70°	405.5	415.5	412.1	412.1	412.1	412.1	432.2
72.5°	271.4	284.8	281.5	288.1	288.1	294.9	288.1
75°	184.3	197.6	191.0	201.1	197.6	191.0	207.7
77.5°	124.0	130.7	134.1	137.4	134.1	130.7	134.1
80°	87.2	93.8	90.5	93.8	93.8	93.8	97.2
82.5°	53.6	63.7	60.3	63.7	60.3	63.7	63.7
85°	36.8	40.3	33.5	40.3	36.8	36.8	43.6
87.5°	23.4	20.1	20.1	23.4	20.1	23.4	20.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)