

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: P249060

Luminaire Tested: **LD8B120D010 ER8B120950 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249060
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 ER8B120950 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11252.0 lumens
Efficiency: N/A
Efficacy: 95.1 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

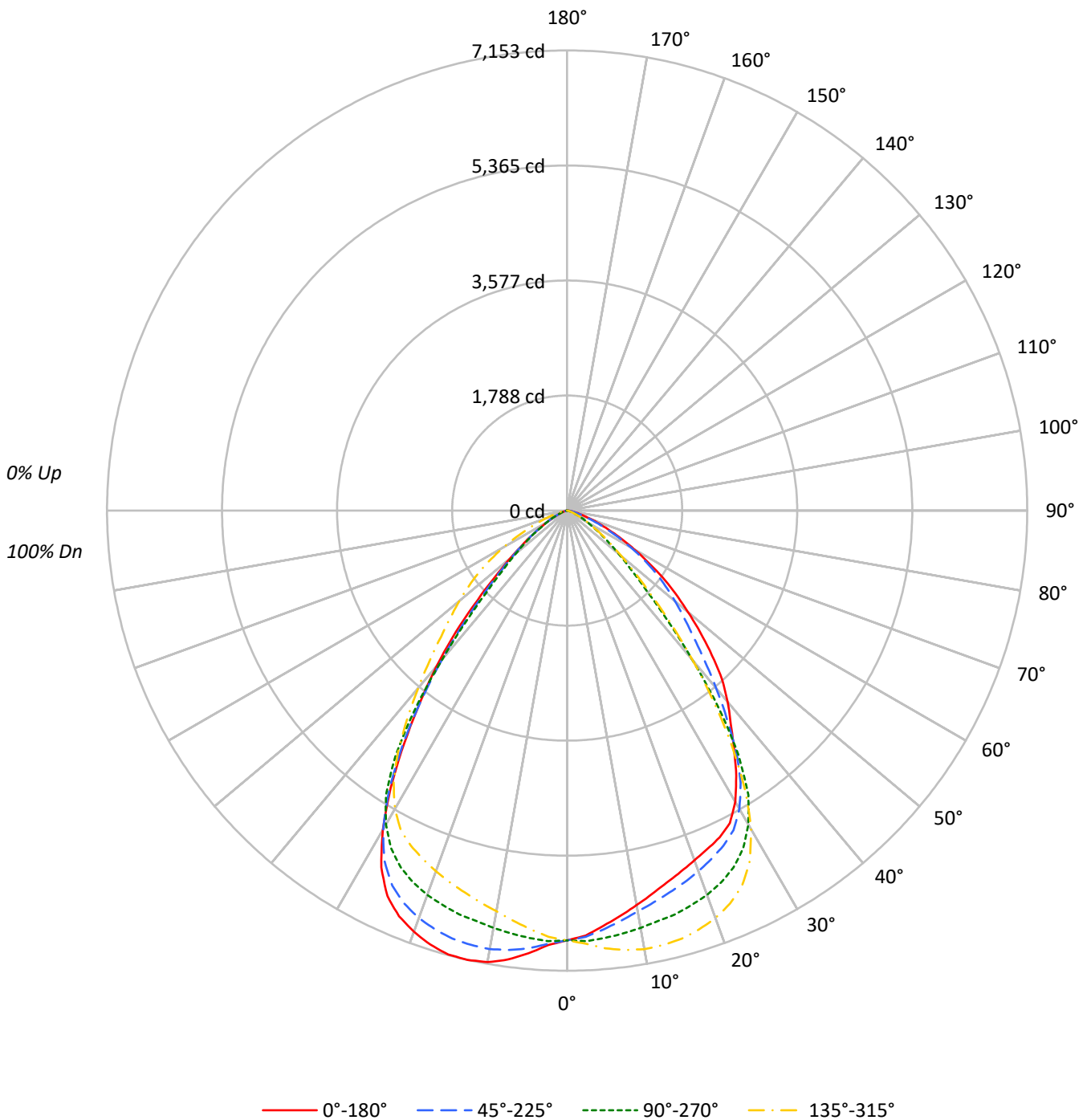
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	205987	205987	205987	205987
5°	200514	206470	213840	206470
10°	194967	206199	223154	206199
15°	191072	207424	228037	207424
20°	189771	208610	228624	208610
25°	190770	208190	224950	208190
30°	186052	200569	204172	200569
35°	170178	174966	166007	174966
40°	156242	121708	127098	121708
45°	138825	74249	85910	74249
50°	117509	49599	55078	49599
55°	97324	33843	35773	33843
60°	74229	22529	22726	22529
65°	52593	14038	12849	14038
70°	37939	9404	8529	9404
75°	24091	4670	3884	4670
80°	16799	3481	2877	3481
85°	15001	0	1132	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.8	5.7
10°-20°	1841.2	16.4
20°-30°	2787.9	24.8
30°-40°	2794.2	24.8
40°-50°	1754.6	15.6
50°-60°	935.0	8.3
60°-70°	384.5	3.4
70°-80°	101.6	0.9
80°-90°	17.2	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°	5264.9	46.8
0°-40°	8059.1	71.6
0°-60°	10748.7	95.5
0°-90°	11252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11252.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6680	6680	6680	6680	6680	
5°	6478	6670	6908	6670	6478	611
15°	5985	6497	7143	6497	5985	1693
25°	5607	6119	6612	6119	5607	2572
35°	4521	4648	4410	4648	4521	2832
45°	3183	1703	1970	1703	3183	2448
55°	1810	630	665	630	1810	1614
65°	721	192	176	192	721	748
75°	202	39	33	39	202	229
85°	42	0	3	0	42	47
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°	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0
2.5°	6611.5	6604.9	6601.7	6608.3	6611.5	6624.5	6621.3	6627.7	6627.7	6631.1	6637.5
5°	6477.8	6474.4	6477.8	6477.8	6490.8	6503.8	6500.6	6510.4	6516.8	6533.2	6539.7
7.5°	6353.9	6353.9	6350.5	6363.5	6370.1	6389.7	6386.3	6402.7	6412.5	6428.8	6451.6
10°	6226.6	6226.6	6229.8	6239.6	6243.0	6272.2	6272.2	6295.0	6308.1	6324.5	6353.9
12.5°	6102.7	6102.7	6122.3	6115.7	6128.7	6151.5	6161.3	6184.2	6203.8	6236.4	6265.8
15°	5985.2	5985.2	5991.8	6008.0	6017.8	6047.2	6063.5	6089.6	6112.5	6145.1	6187.5
17.5°	5884.1	5880.9	5884.1	5903.7	5923.3	5949.3	5962.4	5995.0	6017.8	6060.2	6099.4
20°	5783.0	5789.6	5789.6	5805.8	5818.8	5851.5	5864.5	5900.5	5926.5	5965.6	6011.4
22.5°	5694.9	5691.7	5691.7	5714.5	5724.3	5753.6	5766.6	5799.2	5828.6	5861.3	5903.7
25°	5606.9	5600.3	5613.4	5616.7	5623.1	5655.7	5665.5	5688.4	5717.8	5747.2	5789.6
27.5°	5476.4	5469.9	5473.1	5486.2	5496.0	5522.0	5528.6	5551.4	5574.2	5600.3	5636.3
30°	5225.2	5218.7	5215.5	5238.3	5248.1	5267.6	5277.4	5316.6	5323.0	5352.4	5378.5
32.5°	4892.5	4889.3	4895.9	4915.3	4925.1	4951.3	4964.3	4987.1	5003.4	5019.8	5045.8
35°	4520.7	4514.2	4520.7	4540.3	4540.3	4563.2	4573.0	4582.6	4579.4	4582.6	4576.2
37.5°	4175.0	4171.7	4175.0	4184.7	4175.0	4184.7	4175.0	4155.4	4119.6	4080.4	4041.2
40°	3881.4	3884.6	3865.2	3878.2	3842.2	3835.8	3799.9	3750.9	3679.2	3601.0	3490.1
42.5°	3568.3	3558.5	3545.5	3552.0	3522.7	3499.7	3441.1	3379.2	3287.8	3157.4	3023.5
45°	3183.4	3180.2	3173.6	3170.4	3150.8	3128.0	3079.0	3007.3	2906.2	2772.5	2612.6
47.5°	2808.3	2798.5	2798.5	2801.8	2778.9	2775.7	2736.5	2674.6	2586.5	2456.0	2289.7
50°	2449.5	2446.2	2452.8	2465.8	2449.5	2443.0	2417.0	2374.6	2296.3	2185.4	2028.7
52.5°	2126.6	2123.4	2129.9	2146.2	2139.6	2146.2	2120.1	2087.5	2035.3	1927.6	1790.7
55°	1810.3	1810.3	1810.3	1829.8	1829.8	1829.8	1816.7	1797.3	1748.3	1670.0	1542.9
57.5°	1480.8	1484.0	1503.6	1506.9	1503.6	1510.2	1506.9	1487.3	1454.8	1399.3	1301.5
60°	1203.6	1203.6	1213.4	1223.2	1219.8	1223.2	1223.2	1213.4	1180.8	1135.1	1056.8
62.5°	952.4	962.2	955.6	962.2	975.2	962.2	955.6	949.2	926.4	897.0	831.7
65°	720.8	727.4	727.4	730.6	724.0	727.4	714.4	704.6	691.5	658.9	616.5
67.5°	548.0	548.0	548.0	548.0	544.7	541.4	538.2	528.4	505.6	492.6	446.8
70°	420.8	401.2	401.2	401.2	401.2	404.5	394.7	381.7	375.1	352.3	319.7
72.5°	280.5	287.0	280.5	280.5	274.0	277.2	264.2	257.6	251.2	238.2	218.6
75°	202.2	185.9	192.4	195.7	185.9	192.4	179.4	166.3	166.3	156.5	146.7
77.5°	130.5	127.3	130.5	133.7	130.5	127.3	120.7	114.1	114.1	110.9	101.1
80°	94.6	91.3	91.3	91.3	88.1	91.3	84.8	84.8	78.3	75.0	68.5
82.5°	62.0	62.0	58.7	62.0	58.7	62.0	52.2	52.2	52.2	48.9	42.4
85°	42.4	35.8	35.8	39.2	32.6	39.2	35.8	32.6	29.4	29.4	26.0
87.5°	19.6	22.8	19.6	22.8	19.6	19.6	22.8	19.6	19.6	13.0	13.0
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°	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0
2.5°	6647.3	6650.6	6650.6	6663.7	6670.2	6673.4	6673.4	6699.6	6689.8	6696.3	6702.8
5°	6552.8	6572.3	6578.9	6578.9	6614.7	6627.7	6640.8	6670.2	6673.4	6693.0	6715.8
7.5°	6461.4	6484.2	6497.4	6526.6	6549.5	6572.3	6611.5	6631.1	6650.6	6676.7	6706.0
10°	6373.3	6399.5	6425.5	6448.4	6484.2	6513.6	6539.7	6585.3	6608.3	6644.1	6683.2
12.5°	6288.6	6324.5	6347.3	6386.3	6425.5	6451.6	6490.8	6533.2	6569.1	6604.9	6650.6
15°	6213.6	6256.0	6282.0	6324.5	6366.9	6402.7	6445.1	6497.4	6523.4	6565.8	6608.3
17.5°	6131.9	6177.7	6210.3	6249.4	6301.6	6340.7	6376.7	6428.8	6461.4	6507.0	6556.0
20°	6047.2	6092.9	6131.9	6171.1	6223.4	6262.4	6304.8	6357.1	6392.9	6438.6	6477.8
22.5°	5946.1	5988.5	6030.8	6076.5	6128.7	6161.3	6210.3	6256.0	6295.0	6337.5	6376.7
25°	5815.6	5867.9	5900.5	5942.8	5985.2	6021.0	6073.3	6118.9	6151.5	6190.7	6226.6
27.5°	5662.3	5701.5	5727.6	5763.4	5805.8	5838.5	5877.5	5923.3	5955.9	5991.8	6017.8
30°	5401.3	5437.3	5460.1	5486.2	5528.6	5558.0	5590.6	5632.9	5655.7	5681.9	5704.7
32.5°	5058.8	5088.2	5101.3	5120.9	5150.3	5179.5	5205.7	5241.6	5251.4	5267.6	5267.6
35°	4563.2	4569.6	4566.4	4573.0	4586.0	4602.2	4625.1	4647.9	4660.9	4660.9	4651.2
37.5°	3982.5	3943.5	3901.0	3868.4	3858.6	3852.0	3865.2	3874.8	3888.0	3894.4	3878.2
40°	3379.2	3291.1	3196.5	3111.6	3052.9	3026.9	3017.1	3023.5	3023.5	3046.4	3046.4
42.5°	2860.6	2723.5	2583.3	2456.0	2371.2	2306.1	2276.7	2276.7	2279.9	2296.3	2306.1
45°	2430.0	2257.1	2094.0	1953.8	1836.3	1751.5	1712.4	1702.6	1699.4	1705.8	1728.7
47.5°	2100.5	1921.2	1751.5	1578.7	1454.8	1369.9	1334.1	1320.9	1307.9	1320.9	1324.3
50°	1842.9	1657.0	1477.6	1304.7	1174.2	1099.1	1053.5	1033.9	1030.7	1030.7	1037.2
52.5°	1608.0	1435.2	1255.8	1079.7	942.6	870.9	828.5	818.7	805.7	818.7	818.7
55°	1386.2	1213.4	1037.2	870.9	756.7	681.7	642.5	629.5	622.9	632.7	632.7
57.5°	1144.9	998.0	835.1	685.0	570.8	518.6	489.2	473.0	469.6	476.2	469.6
60°	939.4	815.5	675.2	538.2	450.2	394.7	371.9	365.3	358.7	365.3	365.3
62.5°	743.6	639.3	525.1	420.8	345.7	306.6	280.5	280.5	277.2	277.2	280.5
65°	551.2	469.6	388.1	300.1	241.4	212.0	192.4	192.4	189.2	192.4	189.2
67.5°	401.2	345.7	280.5	218.6	172.9	156.5	143.5	133.7	140.3	133.7	130.5
70°	293.6	247.8	202.2	166.3	133.7	117.5	107.7	104.3	97.9	97.9	97.9
72.5°	195.7	166.3	136.9	107.7	88.1	71.7	68.5	62.0	55.4	58.7	65.2
75°	130.5	110.9	97.9	78.3	58.7	58.7	39.2	39.2	32.6	39.2	29.4
77.5°	91.3	75.0	58.7	48.9	39.2	35.8	26.0	26.0	22.8	22.8	22.8
80°	65.2	55.4	42.4	35.8	26.0	26.0	22.8	19.6	16.2	16.2	19.6
82.5°	39.2	29.4	29.4	26.0	16.2	13.0	9.8	13.0	6.6	6.6	6.6
85°	22.8	19.6	16.2	9.8	6.6	6.6	3.2	0.0	3.2	3.2	0.0
87.5°	13.0	6.6	6.6	3.2	0.0	3.2	3.2	0.0	0.0	0.0	6.6
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°	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0
2.5°	6719.2	6715.8	6722.4	6722.4	6742.0	6738.6	6748.4	6748.4	6742.0	6745.2	6758.2
5°	6742.0	6751.8	6771.2	6787.6	6816.9	6830.1	6846.3	6862.7	6865.9	6875.7	6885.5
7.5°	6742.0	6774.6	6797.4	6826.7	6865.9	6888.7	6924.6	6954.0	6967.0	6983.2	7002.8
10°	6728.8	6761.4	6803.9	6836.5	6885.5	6921.3	6957.2	7002.8	7022.4	7048.5	7074.7
12.5°	6702.8	6738.6	6784.3	6826.7	6882.1	6914.8	6960.4	7002.8	7032.2	7068.1	7097.5
15°	6663.7	6706.0	6748.4	6790.9	6849.5	6888.7	6931.1	6980.0	7009.4	7048.5	7074.7
17.5°	6601.7	6647.3	6686.5	6725.6	6781.0	6826.7	6865.9	6911.5	6940.9	6973.6	7009.4
20°	6526.6	6569.1	6611.5	6644.1	6699.6	6738.6	6781.0	6823.5	6846.3	6852.9	6908.3
22.5°	6432.1	6461.4	6494.0	6546.2	6578.9	6614.7	6653.9	6693.0	6715.8	6751.8	6771.2
25°	6275.4	6304.8	6340.7	6363.5	6402.7	6432.1	6471.2	6513.6	6526.6	6552.8	6572.3
27.5°	6057.0	6073.3	6089.6	6109.1	6131.9	6148.3	6171.1	6190.7	6203.8	6216.8	6229.8
30°	5711.2	5711.2	5711.2	5698.2	5708.0	5717.8	5721.0	5717.8	5717.8	5714.5	5714.5
32.5°	5254.6	5228.5	5199.1	5173.1	5163.3	5150.3	5143.7	5133.9	5117.6	5107.8	5111.1
35°	4638.1	4579.4	4543.6	4510.9	4484.9	4465.3	4455.5	4445.7	4442.5	4429.5	4416.3
37.5°	3868.4	3826.0	3799.9	3780.3	3757.5	3737.9	3741.1	3744.5	3754.2	3747.7	3750.9
40°	3052.9	3043.1	3052.9	3030.1	3023.5	3030.1	3046.4	3069.3	3082.3	3095.4	3118.2
42.5°	2322.3	2338.6	2361.5	2361.5	2371.2	2384.4	2403.8	2439.8	2459.3	2482.1	2508.3
45°	1748.3	1767.9	1797.3	1806.9	1813.5	1829.8	1852.7	1882.0	1895.0	1914.6	1937.4
47.5°	1347.1	1360.1	1376.4	1392.8	1409.0	1415.6	1438.4	1438.4	1454.8	1467.8	1474.2
50°	1050.3	1063.3	1076.3	1086.1	1092.7	1102.5	1108.9	1118.7	1122.0	1128.5	1131.8
52.5°	821.9	838.3	838.3	844.7	854.5	864.3	861.1	864.3	867.6	867.6	877.4
55°	642.5	642.5	652.3	652.3	658.9	655.6	658.9	658.9	658.9	658.9	662.1
57.5°	479.4	482.8	492.6	486.0	482.8	489.2	482.8	489.2	486.0	492.6	482.8
60°	368.5	368.5	371.9	371.9	375.1	375.1	375.1	371.9	371.9	368.5	368.5
62.5°	277.2	280.5	283.8	280.5	280.5	280.5	277.2	277.2	274.0	270.7	270.7
65°	185.9	182.7	189.2	182.7	185.9	185.9	182.7	185.9	176.1	179.4	176.1
67.5°	133.7	130.5	127.3	130.5	127.3	123.9	123.9	127.3	130.5	120.7	120.7
70°	88.1	91.3	88.1	91.3	94.6	94.6	91.3	88.1	91.3	84.8	88.1
72.5°	55.4	55.4	55.4	55.4	55.4	58.7	58.7	58.7	52.2	52.2	48.9
75°	26.0	35.8	29.4	26.0	35.8	35.8	32.6	32.6	29.4	29.4	29.4
77.5°	26.0	19.6	19.6	19.6	19.6	19.6	19.6	19.6	16.2	19.6	16.2
80°	13.0	13.0	13.0	9.8	13.0	13.0	16.2	13.0	13.0	9.8	16.2
82.5°	6.6	6.6	6.6	0.0	3.2	6.6	6.6	3.2	6.6	6.6	3.2
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: P249060

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0
2.5°	6755.0	6751.8	6755.0	6758.2	6755.0	6751.8	6755.0	6758.2	6745.2	6742.0	6748.4
5°	6898.5	6898.5	6905.0	6908.3	6905.0	6898.5	6898.5	6885.5	6875.7	6865.9	6862.7
7.5°	7022.4	7029.0	7035.5	7038.7	7035.5	7029.0	7022.4	7002.8	6983.2	6967.0	6954.0
10°	7097.5	7107.3	7120.3	7126.8	7120.3	7107.3	7097.5	7074.7	7048.5	7022.4	7002.8
12.5°	7130.1	7139.9	7156.2	7152.9	7156.2	7139.9	7130.1	7097.5	7068.1	7032.2	7002.8
15°	7107.3	7120.3	7136.6	7143.1	7136.6	7120.3	7107.3	7074.7	7048.5	7009.4	6980.0
17.5°	7035.5	7055.1	7064.9	7074.7	7064.9	7055.1	7035.5	7009.4	6973.6	6940.9	6911.5
20°	6937.6	6950.7	6963.8	6967.0	6963.8	6950.7	6937.6	6908.3	6852.9	6846.3	6823.5
22.5°	6797.4	6807.2	6836.5	6826.7	6836.5	6807.2	6797.4	6771.2	6751.8	6715.8	6693.0
25°	6595.1	6604.9	6608.3	6611.5	6608.3	6604.9	6595.1	6572.3	6552.8	6526.6	6513.6
27.5°	6246.2	6246.2	6252.6	6256.0	6252.6	6246.2	6246.2	6229.8	6216.8	6203.8	6190.7
30°	5717.8	5717.8	5717.8	5734.1	5717.8	5717.8	5717.8	5714.5	5714.5	5717.8	5717.8
32.5°	5107.8	5101.3	5094.8	5101.3	5094.8	5101.3	5107.8	5111.1	5107.8	5117.6	5133.9
35°	4416.3	4413.1	4422.9	4409.9	4422.9	4413.1	4416.3	4416.3	4429.5	4442.5	4445.7
37.5°	3754.2	3747.7	3760.7	3747.7	3760.7	3747.7	3754.2	3750.9	3747.7	3754.2	3744.5
40°	3124.8	3131.2	3131.2	3157.4	3131.2	3131.2	3124.8	3118.2	3095.4	3082.3	3069.3
42.5°	2521.3	2540.9	2534.3	2553.9	2534.3	2540.9	2521.3	2508.3	2482.1	2459.3	2439.8
45°	1950.4	1963.6	1963.6	1970.0	1963.6	1963.6	1950.4	1937.4	1914.6	1895.0	1882.0
47.5°	1497.1	1497.1	1497.1	1500.4	1497.1	1497.1	1497.1	1474.2	1467.8	1454.8	1438.4
50°	1138.3	1141.6	1144.9	1148.1	1144.9	1141.6	1138.3	1131.8	1128.5	1122.0	1118.7
52.5°	874.1	877.4	870.9	877.4	870.9	877.4	874.1	877.4	867.6	867.6	864.3
55°	662.1	658.9	662.1	665.4	662.1	658.9	662.1	662.1	658.9	658.9	658.9
57.5°	486.0	479.4	479.4	479.4	479.4	479.4	486.0	482.8	492.6	486.0	489.2
60°	362.1	365.3	365.3	368.5	365.3	365.3	362.1	368.5	368.5	371.9	371.9
62.5°	267.4	277.2	270.7	277.2	270.7	277.2	267.4	270.7	270.7	274.0	277.2
65°	172.9	172.9	172.9	176.1	172.9	172.9	172.9	176.1	179.4	176.1	185.9
67.5°	117.5	120.7	127.3	123.9	127.3	120.7	117.5	120.7	120.7	130.5	127.3
70°	94.6	84.8	84.8	94.6	84.8	84.8	94.6	88.1	84.8	91.3	88.1
72.5°	55.4	48.9	55.4	55.4	55.4	48.9	55.4	48.9	52.2	52.2	58.7
75°	29.4	26.0	22.8	32.6	22.8	26.0	29.4	29.4	29.4	29.4	32.6
77.5°	19.6	16.2	22.8	22.8	22.8	16.2	19.6	16.2	19.6	16.2	19.6
80°	9.8	13.0	9.8	16.2	9.8	13.0	9.8	16.2	9.8	13.0	13.0
82.5°	3.2	6.6	6.6	6.6	6.6	6.6	3.2	3.2	6.6	6.6	3.2
85°	0.0	6.6	3.2	3.2	3.2	6.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.0	0.0	3.2	0.0	0.0	3.2	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: P249060

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0
2.5°	6748.4	6738.6	6742.0	6722.4	6722.4	6715.8	6719.2	6702.8	6696.3	6689.8	6699.6
5°	6846.3	6830.1	6816.9	6787.6	6771.2	6751.8	6742.0	6715.8	6693.0	6673.4	6670.2
7.5°	6924.6	6888.7	6865.9	6826.7	6797.4	6774.6	6742.0	6706.0	6676.7	6650.6	6631.1
10°	6957.2	6921.3	6885.5	6836.5	6803.9	6761.4	6728.8	6683.2	6644.1	6608.3	6585.3
12.5°	6960.4	6914.8	6882.1	6826.7	6784.3	6738.6	6702.8	6650.6	6604.9	6569.1	6533.2
15°	6931.1	6888.7	6849.5	6790.9	6748.4	6706.0	6663.7	6608.3	6565.8	6523.4	6497.4
17.5°	6865.9	6826.7	6781.0	6725.6	6686.5	6647.3	6601.7	6556.0	6507.0	6461.4	6428.8
20°	6781.0	6738.6	6699.6	6644.1	6611.5	6569.1	6526.6	6477.8	6438.6	6392.9	6357.1
22.5°	6653.9	6614.7	6578.9	6546.2	6494.0	6461.4	6432.1	6376.7	6337.5	6295.0	6256.0
25°	6471.2	6432.1	6402.7	6363.5	6340.7	6304.8	6275.4	6226.6	6190.7	6151.5	6118.9
27.5°	6171.1	6148.3	6131.9	6109.1	6089.6	6073.3	6057.0	6017.8	5991.8	5955.9	5923.3
30°	5721.0	5717.8	5708.0	5698.2	5711.2	5711.2	5711.2	5704.7	5681.9	5655.7	5632.9
32.5°	5143.7	5150.3	5163.3	5173.1	5199.1	5228.5	5254.6	5267.6	5267.6	5251.4	5241.6
35°	4455.5	4465.3	4484.9	4510.9	4543.6	4579.4	4638.1	4651.2	4660.9	4660.9	4647.9
37.5°	3741.1	3737.9	3757.5	3780.3	3799.9	3826.0	3868.4	3878.2	3894.4	3888.0	3874.8
40°	3046.4	3030.1	3023.5	3030.1	3052.9	3043.1	3052.9	3046.4	3046.4	3023.5	3023.5
42.5°	2403.8	2384.4	2371.2	2361.5	2361.5	2338.6	2322.3	2306.1	2296.3	2279.9	2276.7
45°	1852.7	1829.8	1813.5	1806.9	1797.3	1767.9	1748.3	1728.7	1705.8	1699.4	1702.6
47.5°	1438.4	1415.6	1409.0	1392.8	1376.4	1360.1	1347.1	1324.3	1320.9	1307.9	1320.9
50°	1108.9	1102.5	1092.7	1086.1	1076.3	1063.3	1050.3	1037.2	1030.7	1030.7	1033.9
52.5°	861.1	864.3	854.5	844.7	838.3	838.3	821.9	818.7	818.7	805.7	818.7
55°	658.9	655.6	658.9	652.3	652.3	642.5	642.5	632.7	632.7	622.9	629.5
57.5°	482.8	489.2	482.8	486.0	492.6	482.8	479.4	469.6	476.2	469.6	473.0
60°	375.1	375.1	375.1	371.9	371.9	368.5	368.5	365.3	365.3	358.7	365.3
62.5°	277.2	280.5	280.5	280.5	283.8	280.5	277.2	280.5	277.2	277.2	280.5
65°	182.7	185.9	185.9	182.7	189.2	182.7	185.9	189.2	192.4	189.2	192.4
67.5°	123.9	123.9	127.3	130.5	127.3	130.5	133.7	130.5	133.7	140.3	133.7
70°	91.3	94.6	94.6	91.3	88.1	91.3	88.1	97.9	97.9	97.9	104.3
72.5°	58.7	58.7	55.4	55.4	55.4	55.4	55.4	65.2	58.7	55.4	62.0
75°	32.6	35.8	35.8	26.0	29.4	35.8	26.0	29.4	39.2	32.6	39.2
77.5°	19.6	19.6	19.6	19.6	19.6	19.6	26.0	22.8	22.8	22.8	26.0
80°	16.2	13.0	13.0	9.8	13.0	13.0	13.0	19.6	16.2	16.2	19.6
82.5°	6.6	6.6	3.2	0.0	6.6	6.6	6.6	6.6	6.6	6.6	13.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	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: P249060

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0
2.5°	6673.4	6673.4	6670.2	6663.7	6650.6	6650.6	6647.3	6637.5	6631.1	6627.7	6627.7
5°	6640.8	6627.7	6614.7	6578.9	6578.9	6572.3	6552.8	6539.7	6533.2	6516.8	6510.4
7.5°	6611.5	6572.3	6549.5	6526.6	6497.4	6484.2	6461.4	6451.6	6428.8	6412.5	6402.7
10°	6539.7	6513.6	6484.2	6448.4	6425.5	6399.5	6373.3	6353.9	6324.5	6308.1	6295.0
12.5°	6490.8	6451.6	6425.5	6386.3	6347.3	6324.5	6288.6	6265.8	6236.4	6203.8	6184.2
15°	6445.1	6402.7	6366.9	6324.5	6282.0	6256.0	6213.6	6187.5	6145.1	6112.5	6089.6
17.5°	6376.7	6340.7	6301.6	6249.4	6210.3	6177.7	6131.9	6099.4	6060.2	6017.8	5995.0
20°	6304.8	6262.4	6223.4	6171.1	6131.9	6092.9	6047.2	6011.4	5965.6	5926.5	5900.5
22.5°	6210.3	6161.3	6128.7	6076.5	6030.8	5988.5	5946.1	5903.7	5861.3	5828.6	5799.2
25°	6073.3	6021.0	5985.2	5942.8	5900.5	5867.9	5815.6	5789.6	5747.2	5717.8	5688.4
27.5°	5877.5	5838.5	5805.8	5763.4	5727.6	5701.5	5662.3	5636.3	5600.3	5574.2	5551.4
30°	5590.6	5558.0	5528.6	5486.2	5460.1	5437.3	5401.3	5378.5	5352.4	5323.0	5316.6
32.5°	5205.7	5179.5	5150.3	5120.9	5101.3	5088.2	5058.8	5045.8	5019.8	5003.4	4987.1
35°	4625.1	4602.2	4586.0	4573.0	4566.4	4569.6	4563.2	4576.2	4582.6	4579.4	4582.6
37.5°	3865.2	3852.0	3858.6	3868.4	3901.0	3943.5	3982.5	4041.2	4080.4	4119.6	4155.4
40°	3017.1	3026.9	3052.9	3111.6	3196.5	3291.1	3379.2	3490.1	3601.0	3679.2	3750.9
42.5°	2276.7	2306.1	2371.2	2456.0	2583.3	2723.5	2860.6	3023.5	3157.4	3287.8	3379.2
45°	1712.4	1751.5	1836.3	1953.8	2094.0	2257.1	2430.0	2612.6	2772.5	2906.2	3007.3
47.5°	1334.1	1369.9	1454.8	1578.7	1751.5	1921.2	2100.5	2289.7	2456.0	2586.5	2674.6
50°	1053.5	1099.1	1174.2	1304.7	1477.6	1657.0	1842.9	2028.7	2185.4	2296.3	2374.6
52.5°	828.5	870.9	942.6	1079.7	1255.8	1435.2	1608.0	1790.7	1927.6	2035.3	2087.5
55°	642.5	681.7	756.7	870.9	1037.2	1213.4	1386.2	1542.9	1670.0	1748.3	1797.3
57.5°	489.2	518.6	570.8	685.0	835.1	998.0	1144.9	1301.5	1399.3	1454.8	1487.3
60°	371.9	394.7	450.2	538.2	675.2	815.5	939.4	1056.8	1135.1	1180.8	1213.4
62.5°	280.5	306.6	345.7	420.8	525.1	639.3	743.6	831.7	897.0	926.4	949.2
65°	192.4	212.0	241.4	300.1	388.1	469.6	551.2	616.5	658.9	691.5	704.6
67.5°	143.5	156.5	172.9	218.6	280.5	345.7	401.2	446.8	492.6	505.6	528.4
70°	107.7	117.5	133.7	166.3	202.2	247.8	293.6	319.7	352.3	375.1	381.7
72.5°	68.5	71.7	88.1	107.7	136.9	166.3	195.7	218.6	238.2	251.2	257.6
75°	39.2	58.7	58.7	78.3	97.9	110.9	130.5	146.7	156.5	166.3	166.3
77.5°	26.0	35.8	39.2	48.9	58.7	75.0	91.3	101.1	110.9	114.1	114.1
80°	22.8	26.0	26.0	35.8	42.4	55.4	65.2	68.5	75.0	78.3	84.8
82.5°	9.8	13.0	16.2	26.0	29.4	29.4	39.2	42.4	48.9	52.2	52.2
85°	3.2	6.6	6.6	9.8	16.2	19.6	22.8	26.0	29.4	29.4	32.6
87.5°	3.2	3.2	0.0	3.2	6.6	6.6	13.0	13.0	13.0	19.6	19.6
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: P249060

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0	6680.0
2.5°	6621.3	6624.5	6611.5	6608.3	6601.7	6604.9	6611.5
5°	6500.6	6503.8	6490.8	6477.8	6477.8	6474.4	6477.8
7.5°	6386.3	6389.7	6370.1	6363.5	6350.5	6353.9	6353.9
10°	6272.2	6272.2	6243.0	6239.6	6229.8	6226.6	6226.6
12.5°	6161.3	6151.5	6128.7	6115.7	6122.3	6102.7	6102.7
15°	6063.5	6047.2	6017.8	6008.0	5991.8	5985.2	5985.2
17.5°	5962.4	5949.3	5923.3	5903.7	5884.1	5880.9	5884.1
20°	5864.5	5851.5	5818.8	5805.8	5789.6	5789.6	5783.0
22.5°	5766.6	5753.6	5724.3	5714.5	5691.7	5691.7	5694.9
25°	5665.5	5655.7	5623.1	5616.7	5613.4	5600.3	5606.9
27.5°	5528.6	5522.0	5496.0	5486.2	5473.1	5469.9	5476.4
30°	5277.4	5267.6	5248.1	5238.3	5215.5	5218.7	5225.2
32.5°	4964.3	4951.3	4925.1	4915.3	4895.9	4889.3	4892.5
35°	4573.0	4563.2	4540.3	4540.3	4520.7	4514.2	4520.7
37.5°	4175.0	4184.7	4175.0	4184.7	4175.0	4171.7	4175.0
40°	3799.9	3835.8	3842.2	3878.2	3865.2	3884.6	3881.4
42.5°	3441.1	3499.7	3522.7	3552.0	3545.5	3558.5	3568.3
45°	3079.0	3128.0	3150.8	3170.4	3173.6	3180.2	3183.4
47.5°	2736.5	2775.7	2778.9	2801.8	2798.5	2798.5	2808.3
50°	2417.0	2443.0	2449.5	2465.8	2452.8	2446.2	2449.5
52.5°	2120.1	2146.2	2139.6	2146.2	2129.9	2123.4	2126.6
55°	1816.7	1829.8	1829.8	1829.8	1810.3	1810.3	1810.3
57.5°	1506.9	1510.2	1503.6	1506.9	1503.6	1484.0	1480.8
60°	1223.2	1223.2	1219.8	1223.2	1213.4	1203.6	1203.6
62.5°	955.6	962.2	975.2	962.2	955.6	962.2	952.4
65°	714.4	727.4	724.0	730.6	727.4	727.4	720.8
67.5°	538.2	541.4	544.7	548.0	548.0	548.0	548.0
70°	394.7	404.5	401.2	401.2	401.2	401.2	420.8
72.5°	264.2	277.2	274.0	280.5	280.5	287.0	280.5
75°	179.4	192.4	185.9	195.7	192.4	185.9	202.2
77.5°	120.7	127.3	130.5	133.7	130.5	127.3	130.5
80°	84.8	91.3	88.1	91.3	91.3	91.3	94.6
82.5°	52.2	62.0	58.7	62.0	58.7	62.0	62.0
85°	35.8	39.2	32.6	39.2	35.8	35.8	42.4
87.5°	22.8	19.6	19.6	22.8	19.6	22.8	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)