

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: P248971

Luminaire Tested: **LD8B150D010 ER8B150930 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248971
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: LD8B150D010 ER8B150930 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10253.8 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

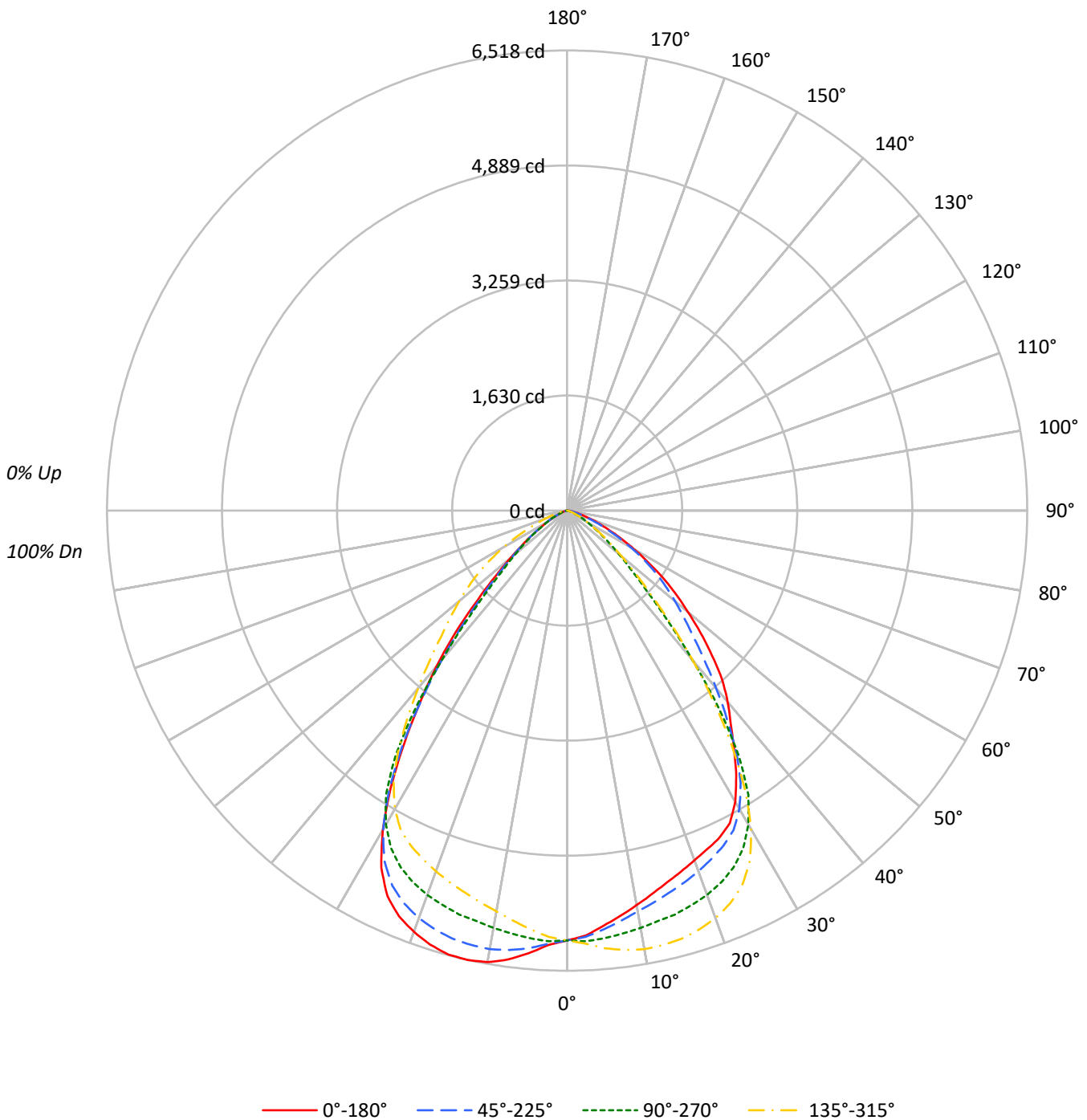
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.4	5.7
10°-20°	1677.8	16.4
20°-30°	2540.6	24.8
30°-40°	2546.3	24.8
40°-50°	1599.0	15.6
50°-60°	852.1	8.3
60°-70°	350.4	3.4
70°-80°	92.6	0.9
80°-90°	15.6	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°	4797.8	46.8
0°-40°	7344.1	71.6
0°-60°	9795.2	95.5
0°-90°	10253.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10253.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6087	6087	6087	6087	6087	
5°	5903	6078	6295	6078	5903	557
15°	5454	5921	6509	5921	5454	1543
25°	5109	5576	6025	5576	5109	2343
35°	4120	4236	4019	4236	4120	2581
45°	2901	1552	1795	1552	2901	2231
55°	1650	574	606	574	1650	1471
65°	657	175	160	175	657	681
75°	184	36	30	36	184	209
85°	39	0	3	0	39	42
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°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	6024.9	6019.0	6016.1	6022.0	6024.9	6036.8	6033.9	6039.7	6039.7	6042.9	6048.7
5°	5903.1	5900.0	5903.1	5903.1	5915.0	5926.8	5923.9	5932.8	5938.7	5953.6	5959.5
7.5°	5790.2	5790.2	5787.2	5798.9	5805.0	5822.8	5819.8	5834.7	5843.7	5858.5	5879.2
10°	5674.2	5674.2	5677.1	5686.0	5689.1	5715.8	5715.8	5736.6	5748.5	5763.4	5790.2
12.5°	5561.3	5561.3	5579.1	5573.2	5585.0	5605.8	5614.8	5635.5	5653.4	5683.1	5709.9
15°	5454.2	5454.2	5460.2	5475.0	5483.9	5510.7	5525.5	5549.4	5570.2	5600.0	5638.6
17.5°	5362.1	5359.2	5362.1	5379.9	5397.8	5421.6	5433.4	5463.2	5483.9	5522.6	5558.4
20°	5269.9	5276.0	5276.0	5290.8	5302.7	5332.4	5344.3	5377.0	5400.8	5436.4	5478.1
22.5°	5189.7	5186.8	5186.8	5207.6	5216.5	5243.1	5255.0	5284.7	5311.5	5341.3	5379.9
25°	5109.4	5103.5	5115.5	5118.4	5124.2	5154.0	5162.9	5183.7	5210.5	5237.3	5276.0
27.5°	4990.6	4984.6	4987.6	4999.4	5008.4	5032.2	5038.1	5059.0	5079.7	5103.5	5136.2
30°	4761.7	4755.7	4752.8	4773.7	4782.5	4800.2	4809.2	4845.0	4850.8	4877.6	4901.3
32.5°	4458.4	4455.5	4461.5	4479.3	4488.1	4512.0	4523.9	4544.8	4559.6	4574.5	4598.2
35°	4119.7	4113.7	4119.7	4137.5	4137.5	4158.3	4167.3	4176.1	4173.1	4176.1	4170.2
37.5°	3804.7	3801.6	3804.7	3813.4	3804.7	3813.4	3804.7	3786.7	3754.1	3718.4	3682.7
40°	3537.1	3540.0	3522.3	3534.2	3501.3	3495.5	3462.8	3418.2	3352.8	3281.5	3180.5
42.5°	3251.8	3242.8	3230.9	3236.9	3210.2	3189.2	3135.8	3079.4	2996.1	2877.3	2755.3
45°	2901.0	2898.1	2892.1	2889.2	2871.3	2850.5	2805.9	2740.5	2648.4	2526.5	2380.8
47.5°	2559.2	2550.3	2550.3	2553.2	2532.5	2529.4	2493.8	2437.4	2357.1	2238.2	2086.6
50°	2232.1	2229.2	2235.3	2247.0	2232.1	2226.3	2202.5	2163.9	2092.6	1991.6	1848.8
52.5°	1938.0	1935.0	1941.0	1955.8	1949.8	1955.8	1932.0	1902.3	1854.7	1756.6	1631.8
55°	1649.7	1649.7	1649.7	1667.4	1667.4	1667.4	1655.6	1637.8	1593.2	1521.9	1406.0
57.5°	1349.5	1352.4	1370.2	1373.2	1370.2	1376.3	1373.2	1355.3	1325.7	1275.1	1186.0
60°	1096.8	1096.8	1105.8	1114.7	1111.6	1114.7	1114.7	1105.8	1076.0	1034.5	963.1
62.5°	867.9	876.8	870.8	876.8	888.7	876.8	870.8	865.0	844.2	817.4	757.9
65°	656.9	662.8	662.8	665.8	659.8	662.8	651.0	642.1	630.2	600.5	561.8
67.5°	499.4	499.4	499.4	499.4	496.4	493.5	490.4	481.6	460.7	448.8	407.1
70°	383.4	365.6	365.6	365.6	365.6	368.6	359.7	347.8	341.8	321.1	291.3
72.5°	255.6	261.5	255.6	255.6	249.8	252.7	240.8	234.7	228.9	217.0	199.2
75°	184.3	169.5	175.3	178.4	169.5	175.3	163.4	151.6	151.6	142.7	133.7
77.5°	118.9	116.0	118.9	121.9	118.9	116.0	110.0	104.0	104.0	101.0	92.1
80°	86.2	83.2	83.2	83.2	80.3	83.2	77.3	77.3	71.3	68.4	62.4
82.5°	56.5	56.5	53.5	56.5	53.5	56.5	47.6	47.6	47.6	44.5	38.7
85°	38.7	32.6	32.6	35.8	29.7	35.8	32.6	29.7	26.8	26.8	23.8
87.5°	17.8	20.9	17.8	20.9	17.8	17.8	20.9	17.8	17.8	11.9	11.9
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°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	6057.7	6060.6	6060.6	6072.6	6078.4	6081.3	6081.3	6105.2	6096.3	6102.3	6108.1
5°	5971.5	5989.3	5995.2	5995.2	6027.8	6039.7	6051.6	6078.4	6081.3	6099.2	6120.0
7.5°	5888.2	5909.0	5921.0	5947.6	5968.4	5989.3	6024.9	6042.9	6060.6	6084.5	6111.1
10°	5807.9	5831.8	5855.5	5876.3	5909.0	5935.8	5959.5	6001.0	6022.0	6054.6	6090.3
12.5°	5730.7	5763.4	5784.1	5819.8	5855.5	5879.2	5915.0	5953.6	5986.3	6019.0	6060.6
15°	5662.3	5701.0	5724.7	5763.4	5802.1	5834.7	5873.4	5921.0	5944.7	5983.3	6022.0
17.5°	5588.0	5629.7	5659.4	5695.0	5742.5	5778.2	5810.9	5858.5	5888.2	5929.8	5974.4
20°	5510.7	5552.3	5588.0	5623.7	5671.3	5706.9	5745.6	5793.1	5825.7	5867.4	5903.1
22.5°	5418.6	5457.3	5495.8	5537.4	5585.0	5614.8	5659.4	5701.0	5736.6	5775.3	5810.9
25°	5299.8	5347.3	5377.0	5415.6	5454.2	5486.8	5534.5	5576.1	5605.8	5641.5	5674.2
27.5°	5160.0	5195.7	5219.5	5252.1	5290.8	5320.5	5356.1	5397.8	5427.5	5460.2	5483.9
30°	4922.2	4954.9	4975.8	4999.4	5038.1	5064.9	5094.6	5133.2	5154.0	5177.9	5198.6
32.5°	4610.0	4636.8	4648.7	4666.6	4693.4	4720.1	4743.8	4776.6	4785.4	4800.2	4800.2
35°	4158.3	4164.2	4161.3	4167.3	4179.2	4194.0	4214.7	4235.6	4247.5	4247.5	4238.6
37.5°	3629.2	3593.6	3554.9	3525.2	3516.2	3510.3	3522.3	3531.0	3543.0	3549.0	3534.2
40°	3079.4	2999.1	2912.9	2835.6	2782.1	2758.3	2749.5	2755.3	2755.3	2776.2	2776.2
42.5°	2606.8	2481.9	2354.1	2238.2	2160.8	2101.5	2074.7	2074.7	2077.7	2092.6	2101.5
45°	2214.4	2056.8	1908.2	1780.5	1673.4	1596.1	1560.5	1551.6	1548.7	1554.5	1575.3
47.5°	1914.2	1750.8	1596.1	1438.7	1325.7	1248.3	1215.7	1203.7	1191.8	1203.7	1206.8
50°	1679.4	1510.0	1346.5	1188.9	1070.0	1001.6	960.0	942.2	939.3	939.3	945.2
52.5°	1465.3	1307.9	1144.4	983.9	859.0	793.7	755.0	746.0	734.1	746.0	746.0
55°	1263.3	1105.8	945.2	793.7	689.5	621.3	585.5	573.6	567.7	576.6	576.6
57.5°	1043.3	909.5	760.9	624.2	520.3	472.6	445.8	431.0	428.0	433.9	428.0
60°	856.0	743.1	615.3	490.4	410.2	359.7	338.9	332.9	326.9	332.9	332.9
62.5°	677.6	582.6	478.4	383.4	315.0	279.5	255.6	255.6	252.7	252.7	255.6
65°	502.3	428.0	353.7	273.4	219.9	193.1	175.3	175.3	172.4	175.3	172.4
67.5°	365.6	315.0	255.6	199.2	157.6	142.7	130.8	121.9	127.8	121.9	118.9
70°	267.6	225.9	184.3	151.6	121.9	107.1	98.1	95.1	89.2	89.2	89.2
72.5°	178.4	151.6	124.8	98.1	80.3	65.4	62.4	56.5	50.6	53.5	59.4
75°	118.9	101.0	89.2	71.3	53.5	53.5	35.8	35.8	29.7	35.8	26.8
77.5°	83.2	68.4	53.5	44.5	35.8	32.6	23.8	23.8	20.9	20.9	20.9
80°	59.4	50.6	38.7	32.6	23.8	23.8	20.9	17.8	14.8	14.8	17.8
82.5°	35.8	26.8	26.8	23.8	14.8	11.9	9.0	11.9	5.9	5.9	5.9
85°	20.9	17.8	14.8	9.0	5.9	5.9	2.9	0.0	2.9	2.9	0.0
87.5°	11.9	5.9	5.9	2.9	0.0	2.9	2.9	0.0	0.0	0.0	5.9
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°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	6123.1	6120.0	6126.0	6126.0	6143.9	6140.8	6149.7	6149.7	6143.9	6146.8	6158.7
5°	6143.9	6152.8	6170.5	6185.5	6212.1	6224.1	6238.9	6253.8	6256.7	6265.7	6274.7
7.5°	6143.9	6173.6	6194.4	6221.1	6256.7	6277.6	6310.2	6337.0	6348.9	6363.7	6381.6
10°	6131.9	6161.6	6200.3	6230.0	6274.7	6307.3	6340.0	6381.6	6399.5	6423.2	6447.1
12.5°	6108.1	6140.8	6182.4	6221.1	6271.5	6301.4	6343.0	6381.6	6408.4	6441.0	6467.8
15°	6072.6	6111.1	6149.7	6188.4	6241.8	6277.6	6316.3	6360.8	6387.6	6423.2	6447.1
17.5°	6016.1	6057.7	6093.3	6129.0	6179.5	6221.1	6256.7	6298.3	6325.1	6354.9	6387.6
20°	5947.6	5986.3	6024.9	6054.6	6105.2	6140.8	6179.5	6218.2	6238.9	6245.0	6295.4
22.5°	5861.5	5888.2	5917.9	5965.5	5995.2	6027.8	6063.6	6099.2	6120.0	6152.8	6170.5
25°	5718.8	5745.6	5778.2	5798.9	5834.7	5861.5	5897.1	5935.8	5947.6	5971.5	5989.3
27.5°	5519.7	5534.5	5549.4	5567.1	5588.0	5602.9	5623.7	5641.5	5653.4	5665.3	5677.1
30°	5204.5	5204.5	5204.5	5192.7	5201.6	5210.5	5213.4	5210.5	5210.5	5207.6	5207.6
32.5°	4788.5	4764.7	4737.9	4714.1	4705.2	4693.4	4687.3	4678.4	4663.6	4654.7	4657.6
35°	4226.6	4173.1	4140.5	4110.7	4087.1	4069.1	4060.3	4051.3	4048.4	4036.5	4024.5
37.5°	3525.2	3486.5	3462.8	3444.9	3424.2	3406.3	3409.2	3412.3	3421.1	3415.2	3418.2
40°	2782.1	2773.1	2782.1	2761.4	2755.3	2761.4	2776.2	2797.0	2808.9	2820.8	2841.5
42.5°	2116.3	2131.1	2152.0	2152.0	2160.8	2172.8	2190.5	2223.4	2241.1	2261.8	2285.7
45°	1593.2	1611.0	1637.8	1646.6	1652.6	1667.4	1688.3	1715.0	1726.9	1744.7	1765.6
47.5°	1227.6	1239.5	1254.3	1269.2	1284.0	1290.0	1310.8	1310.8	1325.7	1337.6	1343.4
50°	957.1	969.0	980.9	989.7	995.8	1004.6	1010.6	1019.4	1022.5	1028.4	1031.3
52.5°	748.9	764.0	764.0	769.8	778.8	787.6	784.7	787.6	790.6	790.6	799.5
55°	585.5	585.5	594.5	594.5	600.5	597.4	600.5	600.5	600.5	600.5	603.4
57.5°	436.9	440.0	448.8	442.9	440.0	445.8	440.0	445.8	442.9	448.8	440.0
60°	335.9	335.9	338.9	338.9	341.8	341.8	341.8	338.9	338.9	335.9	335.9
62.5°	252.7	255.6	258.6	255.6	255.6	255.6	252.7	252.7	249.8	246.6	246.6
65°	169.5	166.5	172.4	166.5	169.5	169.5	166.5	169.5	160.5	163.4	160.5
67.5°	121.9	118.9	116.0	118.9	116.0	112.9	112.9	116.0	118.9	110.0	110.0
70°	80.3	83.2	80.3	83.2	86.2	86.2	83.2	80.3	83.2	77.3	80.3
72.5°	50.6	50.6	50.6	50.6	50.6	53.5	53.5	53.5	47.6	47.6	44.5
75°	23.8	32.6	26.8	23.8	32.6	32.6	29.7	29.7	26.8	26.8	26.8
77.5°	23.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	14.8	17.8	14.8
80°	11.9	11.9	11.9	9.0	11.9	11.9	14.8	11.9	11.9	9.0	14.8
82.5°	5.9	5.9	5.9	0.0	2.9	5.9	5.9	2.9	5.9	5.9	2.9
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: P248971

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	6155.7	6152.8	6155.7	6158.7	6155.7	6152.8	6155.7	6158.7	6146.8	6143.9	6149.7
5°	6286.6	6286.6	6292.4	6295.4	6292.4	6286.6	6286.6	6274.7	6265.7	6256.7	6253.8
7.5°	6399.5	6405.4	6411.3	6414.2	6411.3	6405.4	6399.5	6381.6	6363.7	6348.9	6337.0
10°	6467.8	6476.8	6488.7	6494.5	6488.7	6476.8	6467.8	6447.1	6423.2	6399.5	6381.6
12.5°	6497.5	6506.5	6521.3	6518.4	6521.3	6506.5	6497.5	6467.8	6441.0	6408.4	6381.6
15°	6476.8	6488.7	6503.5	6509.4	6503.5	6488.7	6476.8	6447.1	6423.2	6387.6	6360.8
17.5°	6411.3	6429.2	6438.1	6447.1	6438.1	6429.2	6411.3	6387.6	6354.9	6325.1	6298.3
20°	6322.1	6334.1	6346.0	6348.9	6346.0	6334.1	6322.1	6295.4	6245.0	6238.9	6218.2
22.5°	6194.4	6203.3	6230.0	6221.1	6230.0	6203.3	6194.4	6170.5	6152.8	6120.0	6099.2
25°	6010.0	6019.0	6022.0	6024.9	6022.0	6019.0	6010.0	5989.3	5971.5	5947.6	5935.8
27.5°	5692.1	5692.1	5697.9	5701.0	5697.9	5692.1	5692.1	5677.1	5665.3	5653.4	5641.5
30°	5210.5	5210.5	5210.5	5225.4	5210.5	5210.5	5210.5	5207.6	5207.6	5210.5	5210.5
32.5°	4654.7	4648.7	4642.8	4648.7	4642.8	4648.7	4654.7	4657.6	4654.7	4663.6	4678.4
35°	4024.5	4021.6	4030.6	4018.7	4030.6	4021.6	4024.5	4024.5	4036.5	4048.4	4051.3
37.5°	3421.1	3415.2	3427.1	3415.2	3427.1	3415.2	3421.1	3418.2	3415.2	3421.1	3412.3
40°	2847.6	2853.4	2853.4	2877.3	2853.4	2853.4	2847.6	2841.5	2820.8	2808.9	2797.0
42.5°	2297.6	2315.5	2309.5	2327.3	2309.5	2315.5	2297.6	2285.7	2261.8	2241.1	2223.4
45°	1777.5	1789.5	1789.5	1795.3	1789.5	1789.5	1777.5	1765.6	1744.7	1726.9	1715.0
47.5°	1364.3	1364.3	1364.3	1367.3	1364.3	1364.3	1364.3	1343.4	1337.6	1325.7	1310.8
50°	1037.4	1040.3	1043.3	1046.3	1043.3	1040.3	1037.4	1031.3	1028.4	1022.5	1019.4
52.5°	796.6	799.5	793.7	799.5	793.7	799.5	796.6	799.5	790.6	790.6	787.6
55°	603.4	600.5	603.4	606.3	603.4	600.5	603.4	603.4	600.5	600.5	600.5
57.5°	442.9	436.9	436.9	436.9	436.9	436.9	442.9	440.0	448.8	442.9	445.8
60°	329.9	332.9	332.9	335.9	332.9	332.9	329.9	335.9	335.9	338.9	338.9
62.5°	243.7	252.7	246.6	252.7	246.6	252.7	243.7	246.6	246.6	249.8	252.7
65°	157.6	157.6	157.6	160.5	157.6	157.6	157.6	160.5	163.4	160.5	169.5
67.5°	107.1	110.0	116.0	112.9	116.0	110.0	107.1	110.0	110.0	118.9	116.0
70°	86.2	77.3	77.3	86.2	77.3	77.3	86.2	80.3	77.3	83.2	80.3
72.5°	50.6	44.5	50.6	50.6	50.6	44.5	50.6	44.5	47.6	47.6	53.5
75°	26.8	23.8	20.9	29.7	20.9	23.8	26.8	26.8	26.8	26.8	29.7
77.5°	17.8	14.8	20.9	20.9	20.9	14.8	17.8	14.8	17.8	14.8	17.8
80°	9.0	11.9	9.0	14.8	9.0	11.9	9.0	14.8	9.0	11.9	11.9
82.5°	2.9	5.9	5.9	5.9	5.9	5.9	2.9	2.9	5.9	5.9	2.9
85°	0.0	5.9	2.9	2.9	2.9	5.9	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.0	0.0	2.9	0.0	0.0	2.9	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: P248971

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	6149.7	6140.8	6143.9	6126.0	6126.0	6120.0	6123.1	6108.1	6102.3	6096.3	6105.2
5°	6238.9	6224.1	6212.1	6185.5	6170.5	6152.8	6143.9	6120.0	6099.2	6081.3	6078.4
7.5°	6310.2	6277.6	6256.7	6221.1	6194.4	6173.6	6143.9	6111.1	6084.5	6060.6	6042.9
10°	6340.0	6307.3	6274.7	6230.0	6200.3	6161.6	6131.9	6090.3	6054.6	6022.0	6001.0
12.5°	6343.0	6301.4	6271.5	6221.1	6182.4	6140.8	6108.1	6060.6	6019.0	5986.3	5953.6
15°	6316.3	6277.6	6241.8	6188.4	6149.7	6111.1	6072.6	6022.0	5983.3	5944.7	5921.0
17.5°	6256.7	6221.1	6179.5	6129.0	6093.3	6057.7	6016.1	5974.4	5929.8	5888.2	5858.5
20°	6179.5	6140.8	6105.2	6054.6	6024.9	5986.3	5947.6	5903.1	5867.4	5825.7	5793.1
22.5°	6063.6	6027.8	5995.2	5965.5	5917.9	5888.2	5861.5	5810.9	5775.3	5736.6	5701.0
25°	5897.1	5861.5	5834.7	5798.9	5778.2	5745.6	5718.8	5674.2	5641.5	5605.8	5576.1
27.5°	5623.7	5602.9	5588.0	5567.1	5549.4	5534.5	5519.7	5483.9	5460.2	5427.5	5397.8
30°	5213.4	5210.5	5201.6	5192.7	5204.5	5204.5	5204.5	5198.6	5177.9	5154.0	5133.2
32.5°	4687.3	4693.4	4705.2	4714.1	4737.9	4764.7	4788.5	4800.2	4800.2	4785.4	4776.6
35°	4060.3	4069.1	4087.1	4110.7	4140.5	4173.1	4226.6	4238.6	4247.5	4247.5	4235.6
37.5°	3409.2	3406.3	3424.2	3444.9	3462.8	3486.5	3525.2	3534.2	3549.0	3543.0	3531.0
40°	2776.2	2761.4	2755.3	2761.4	2782.1	2773.1	2782.1	2776.2	2776.2	2755.3	2755.3
42.5°	2190.5	2172.8	2160.8	2152.0	2152.0	2131.1	2116.3	2101.5	2092.6	2077.7	2074.7
45°	1688.3	1667.4	1652.6	1646.6	1637.8	1611.0	1593.2	1575.3	1554.5	1548.7	1551.6
47.5°	1310.8	1290.0	1284.0	1269.2	1254.3	1239.5	1227.6	1206.8	1203.7	1191.8	1203.7
50°	1010.6	1004.6	995.8	989.7	980.9	969.0	957.1	945.2	939.3	939.3	942.2
52.5°	784.7	787.6	778.8	769.8	764.0	764.0	748.9	746.0	746.0	734.1	746.0
55°	600.5	597.4	600.5	594.5	594.5	585.5	585.5	576.6	576.6	567.7	573.6
57.5°	440.0	445.8	440.0	442.9	448.8	440.0	436.9	428.0	433.9	428.0	431.0
60°	341.8	341.8	341.8	338.9	338.9	335.9	335.9	332.9	332.9	326.9	332.9
62.5°	252.7	255.6	255.6	255.6	258.6	255.6	252.7	255.6	252.7	252.7	255.6
65°	166.5	169.5	169.5	166.5	172.4	166.5	169.5	172.4	175.3	172.4	175.3
67.5°	112.9	112.9	116.0	118.9	116.0	118.9	121.9	118.9	121.9	127.8	121.9
70°	83.2	86.2	86.2	83.2	80.3	83.2	80.3	89.2	89.2	89.2	95.1
72.5°	53.5	53.5	50.6	50.6	50.6	50.6	50.6	59.4	53.5	50.6	56.5
75°	29.7	32.6	32.6	23.8	26.8	32.6	23.8	26.8	35.8	29.7	35.8
77.5°	17.8	17.8	17.8	17.8	17.8	17.8	23.8	20.9	20.9	20.9	23.8
80°	14.8	11.9	11.9	9.0	11.9	11.9	11.9	17.8	14.8	14.8	17.8
82.5°	5.9	5.9	2.9	0.0	5.9	5.9	5.9	5.9	5.9	5.9	11.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	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: P248971

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	6081.3	6081.3	6078.4	6072.6	6060.6	6060.6	6057.7	6048.7	6042.9	6039.7	6039.7
5°	6051.6	6039.7	6027.8	5995.2	5995.2	5989.3	5971.5	5959.5	5953.6	5938.7	5932.8
7.5°	6024.9	5989.3	5968.4	5947.6	5921.0	5909.0	5888.2	5879.2	5858.5	5843.7	5834.7
10°	5959.5	5935.8	5909.0	5876.3	5855.5	5831.8	5807.9	5790.2	5763.4	5748.5	5736.6
12.5°	5915.0	5879.2	5855.5	5819.8	5784.1	5763.4	5730.7	5709.9	5683.1	5653.4	5635.5
15°	5873.4	5834.7	5802.1	5763.4	5724.7	5701.0	5662.3	5638.6	5600.0	5570.2	5549.4
17.5°	5810.9	5778.2	5742.5	5695.0	5659.4	5629.7	5588.0	5558.4	5522.6	5483.9	5463.2
20°	5745.6	5706.9	5671.3	5623.7	5588.0	5552.3	5510.7	5478.1	5436.4	5400.8	5377.0
22.5°	5659.4	5614.8	5585.0	5537.4	5495.8	5457.3	5418.6	5379.9	5341.3	5311.5	5284.7
25°	5534.5	5486.8	5454.2	5415.6	5377.0	5347.3	5299.8	5276.0	5237.3	5210.5	5183.7
27.5°	5356.1	5320.5	5290.8	5252.1	5219.5	5195.7	5160.0	5136.2	5103.5	5079.7	5059.0
30°	5094.6	5064.9	5038.1	4999.4	4975.8	4954.9	4922.2	4901.3	4877.6	4850.8	4845.0
32.5°	4743.8	4720.1	4693.4	4666.6	4648.7	4636.8	4610.0	4598.2	4574.5	4559.6	4544.8
35°	4214.7	4194.0	4179.2	4167.3	4161.3	4164.2	4158.3	4170.2	4176.1	4173.1	4176.1
37.5°	3522.3	3510.3	3516.2	3525.2	3554.9	3593.6	3629.2	3682.7	3718.4	3754.1	3786.7
40°	2749.5	2758.3	2782.1	2835.6	2912.9	2999.1	3079.4	3180.5	3281.5	3352.8	3418.2
42.5°	2074.7	2101.5	2160.8	2238.2	2354.1	2481.9	2606.8	2755.3	2877.3	2996.1	3079.4
45°	1560.5	1596.1	1673.4	1780.5	1908.2	2056.8	2214.4	2380.8	2526.5	2648.4	2740.5
47.5°	1215.7	1248.3	1325.7	1438.7	1596.1	1750.8	1914.2	2086.6	2238.2	2357.1	2437.4
50°	960.0	1001.6	1070.0	1188.9	1346.5	1510.0	1679.4	1848.8	1991.6	2092.6	2163.9
52.5°	755.0	793.7	859.0	983.9	1144.4	1307.9	1465.3	1631.8	1756.6	1854.7	1902.3
55°	585.5	621.3	689.5	793.7	945.2	1105.8	1263.3	1406.0	1521.9	1593.2	1637.8
57.5°	445.8	472.6	520.3	624.2	760.9	909.5	1043.3	1186.0	1275.1	1325.7	1355.3
60°	338.9	359.7	410.2	490.4	615.3	743.1	856.0	963.1	1034.5	1076.0	1105.8
62.5°	255.6	279.5	315.0	383.4	478.4	582.6	677.6	757.9	817.4	844.2	865.0
65°	175.3	193.1	219.9	273.4	353.7	428.0	502.3	561.8	600.5	630.2	642.1
67.5°	130.8	142.7	157.6	199.2	255.6	315.0	365.6	407.1	448.8	460.7	481.6
70°	98.1	107.1	121.9	151.6	184.3	225.9	267.6	291.3	321.1	341.8	347.8
72.5°	62.4	65.4	80.3	98.1	124.8	151.6	178.4	199.2	217.0	228.9	234.7
75°	35.8	53.5	53.5	71.3	89.2	101.0	118.9	133.7	142.7	151.6	151.6
77.5°	23.8	32.6	35.8	44.5	53.5	68.4	83.2	92.1	101.0	104.0	104.0
80°	20.9	23.8	23.8	32.6	38.7	50.6	59.4	62.4	68.4	71.3	77.3
82.5°	9.0	11.9	14.8	23.8	26.8	26.8	35.8	38.7	44.5	47.6	47.6
85°	2.9	5.9	5.9	9.0	14.8	17.8	20.9	23.8	26.8	26.8	29.7
87.5°	2.9	2.9	0.0	2.9	5.9	5.9	11.9	11.9	11.9	17.8	17.8
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: P248971

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4	6087.4
2.5°	6033.9	6036.8	6024.9	6022.0	6016.1	6019.0	6024.9
5°	5923.9	5926.8	5915.0	5903.1	5903.1	5900.0	5903.1
7.5°	5819.8	5822.8	5805.0	5798.9	5787.2	5790.2	5790.2
10°	5715.8	5715.8	5689.1	5686.0	5677.1	5674.2	5674.2
12.5°	5614.8	5605.8	5585.0	5573.2	5579.1	5561.3	5561.3
15°	5525.5	5510.7	5483.9	5475.0	5460.2	5454.2	5454.2
17.5°	5433.4	5421.6	5397.8	5379.9	5362.1	5359.2	5362.1
20°	5344.3	5332.4	5302.7	5290.8	5276.0	5276.0	5269.9
22.5°	5255.0	5243.1	5216.5	5207.6	5186.8	5186.8	5189.7
25°	5162.9	5154.0	5124.2	5118.4	5115.5	5103.5	5109.4
27.5°	5038.1	5032.2	5008.4	4999.4	4987.6	4984.6	4990.6
30°	4809.2	4800.2	4782.5	4773.7	4752.8	4755.7	4761.7
32.5°	4523.9	4512.0	4488.1	4479.3	4461.5	4455.5	4458.4
35°	4167.3	4158.3	4137.5	4137.5	4119.7	4113.7	4119.7
37.5°	3804.7	3813.4	3804.7	3813.4	3804.7	3801.6	3804.7
40°	3462.8	3495.5	3501.3	3534.2	3522.3	3540.0	3537.1
42.5°	3135.8	3189.2	3210.2	3236.9	3230.9	3242.8	3251.8
45°	2805.9	2850.5	2871.3	2889.2	2892.1	2898.1	2901.0
47.5°	2493.8	2529.4	2532.5	2553.2	2550.3	2550.3	2559.2
50°	2202.5	2226.3	2232.1	2247.0	2235.3	2229.2	2232.1
52.5°	1932.0	1955.8	1949.8	1955.8	1941.0	1935.0	1938.0
55°	1655.6	1667.4	1667.4	1667.4	1649.7	1649.7	1649.7
57.5°	1373.2	1376.3	1370.2	1373.2	1370.2	1352.4	1349.5
60°	1114.7	1114.7	1111.6	1114.7	1105.8	1096.8	1096.8
62.5°	870.8	876.8	888.7	876.8	870.8	876.8	867.9
65°	651.0	662.8	659.8	665.8	662.8	662.8	656.9
67.5°	490.4	493.5	496.4	499.4	499.4	499.4	499.4
70°	359.7	368.6	365.6	365.6	365.6	365.6	383.4
72.5°	240.8	252.7	249.8	255.6	255.6	261.5	255.6
75°	163.4	175.3	169.5	178.4	175.3	169.5	184.3
77.5°	110.0	116.0	118.9	121.9	118.9	116.0	118.9
80°	77.3	83.2	80.3	83.2	83.2	83.2	86.2
82.5°	47.6	56.5	53.5	56.5	53.5	56.5	56.5
85°	32.6	35.8	29.7	35.8	32.6	32.6	38.7
87.5°	20.9	17.8	17.8	20.9	17.8	20.9	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)