

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: P248691

Luminaire Tested: **LD8B120D010 ER8B120850 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248691
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 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12381.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

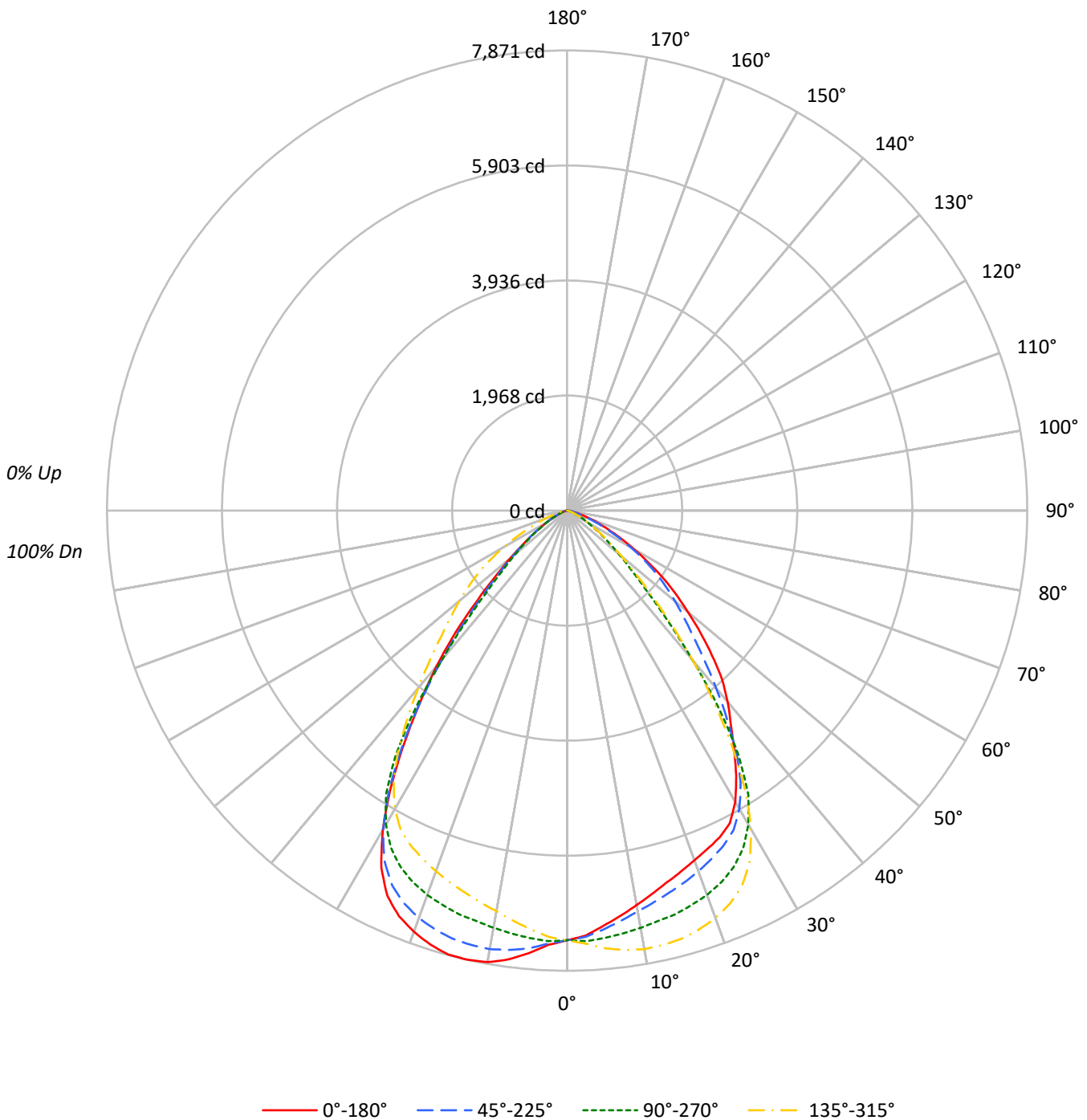
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	226653	226653	226653	226653
5°	220632	227185	235298	227185
10°	214528	226890	245543	226890
15°	210243	228235	250920	228235
20°	208814	229540	251562	229540
25°	209908	229081	247522	229081
30°	204721	220694	224661	220694
35°	187253	192520	182661	192520
40°	171921	133921	139850	133921
45°	152758	81697	94532	81697
50°	129296	54574	60604	54574
55°	107087	37241	39359	37241
60°	81679	24792	25008	24792
65°	57868	15447	14141	15447
70°	41744	10350	9386	10350
75°	26509	5135	4277	5135
80°	18486	3836	3179	3836
85°	16523	0	1238	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.6	5.7
10°-20°	2025.9	16.4
20°-30°	3067.7	24.8
30°-40°	3074.5	24.8
40°-50°	1930.7	15.6
50°-60°	1028.8	8.3
60°-70°	423.1	3.4
70°-80°	111.8	0.9
80°-90°	18.9	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°	5793.2	46.8
0°-40°	8867.7	71.6
0°-60°	11827.2	95.5
0°-90°	12381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12381.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7350	7350	7350	7350	7350	
5°	7128	7339	7602	7339	7128	672
15°	6586	7149	7860	7149	6586	1863
25°	6169	6733	7275	6733	6169	2830
35°	4974	5114	4852	5114	4974	3116
45°	3503	1873	2168	1873	3503	2694
55°	1992	693	732	693	1992	1776
65°	793	212	194	212	793	823
75°	222	43	36	43	222	252
85°	47	0	4	0	47	51
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°	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2
2.5°	7274.9	7267.6	7264.1	7271.3	7274.9	7289.2	7285.7	7292.7	7292.7	7296.4	7303.5
5°	7127.7	7124.0	7127.7	7127.7	7142.1	7156.4	7152.8	7163.6	7170.7	7188.7	7195.8
7.5°	6991.4	6991.4	6987.7	7002.0	7009.3	7030.8	7027.1	7045.2	7055.9	7073.8	7098.9
10°	6851.3	6851.3	6854.9	6865.7	6869.4	6901.6	6901.6	6926.7	6941.0	6959.0	6991.4
12.5°	6715.0	6715.0	6736.6	6729.3	6743.6	6768.8	6779.5	6804.7	6826.2	6862.1	6894.5
15°	6585.7	6585.7	6593.0	6610.8	6621.6	6654.0	6671.9	6700.7	6725.8	6761.7	6808.4
17.5°	6474.5	6470.9	6474.5	6496.1	6517.6	6546.3	6560.6	6596.5	6621.6	6668.3	6711.4
20°	6363.3	6370.5	6370.5	6388.4	6402.7	6438.6	6452.9	6492.5	6521.2	6564.2	6614.5
22.5°	6266.3	6262.8	6262.8	6287.9	6298.7	6330.9	6345.2	6381.1	6413.5	6449.4	6496.1
25°	6169.4	6162.2	6176.7	6180.2	6187.3	6223.2	6234.0	6259.1	6291.5	6323.8	6370.5
27.5°	6025.9	6018.8	6022.3	6036.6	6047.4	6076.1	6083.3	6108.4	6133.5	6162.2	6201.8
30°	5749.5	5742.4	5738.8	5763.9	5774.7	5796.1	5806.9	5850.1	5857.2	5889.5	5918.2
32.5°	5383.4	5379.9	5387.1	5408.5	5419.3	5448.1	5462.4	5487.5	5505.4	5523.4	5552.1
35°	4974.3	4967.1	4974.3	4995.9	4995.9	5021.0	5031.8	5042.4	5038.9	5042.4	5035.4
37.5°	4594.0	4590.3	4594.0	4604.6	4594.0	4604.6	4594.0	4572.4	4532.9	4489.8	4446.7
40°	4270.9	4274.4	4253.0	4267.3	4227.7	4220.7	4181.2	4127.3	4048.4	3962.3	3840.3
42.5°	3926.4	3915.6	3901.3	3908.4	3876.2	3850.9	3786.3	3718.2	3617.6	3474.2	3326.9
45°	3502.9	3499.3	3492.1	3488.5	3467.0	3441.8	3387.9	3309.0	3197.8	3050.7	2874.7
47.5°	3090.1	3079.3	3079.3	3082.9	3057.8	3054.2	3011.1	2943.0	2846.1	2702.5	2519.5
50°	2695.2	2691.7	2698.9	2713.3	2695.2	2688.2	2659.5	2612.8	2526.7	2404.7	2232.3
52.5°	2340.0	2336.4	2343.7	2361.5	2354.3	2361.5	2332.9	2297.0	2239.5	2121.0	1970.4
55°	1991.9	1991.9	1991.9	2013.3	2013.3	2013.3	1999.0	1977.6	1923.7	1837.6	1697.7
57.5°	1629.4	1633.0	1654.5	1658.1	1654.5	1661.8	1658.1	1636.5	1600.7	1539.7	1432.0
60°	1324.4	1324.4	1335.1	1345.9	1342.2	1345.9	1345.9	1335.1	1299.2	1249.0	1162.9
62.5°	1048.0	1058.7	1051.5	1058.7	1073.1	1058.7	1051.5	1044.4	1019.3	987.0	915.2
65°	793.1	800.4	800.4	803.9	796.7	800.4	786.0	775.3	760.9	725.0	678.4
67.5°	603.0	603.0	603.0	603.0	599.3	595.8	592.2	581.4	556.3	542.0	491.6
70°	463.0	441.4	441.4	441.4	441.4	445.1	434.3	420.0	412.7	387.6	351.7
72.5°	308.6	315.8	308.6	308.6	301.5	305.1	290.7	283.5	276.4	262.1	240.5
75°	222.5	204.6	211.7	215.4	204.6	211.7	197.4	183.0	183.0	172.2	161.5
77.5°	143.6	140.0	143.6	147.1	143.6	140.0	132.8	125.6	125.6	122.0	111.2
80°	104.1	100.5	100.5	100.5	96.9	100.5	93.4	93.4	86.1	82.6	75.3
82.5°	68.2	68.2	64.6	68.2	64.6	68.2	57.5	57.5	57.5	53.8	46.7
85°	46.7	39.4	39.4	43.1	35.9	43.1	39.4	35.9	32.4	32.4	28.7
87.5°	21.6	25.1	21.6	25.1	21.6	21.6	25.1	21.6	21.6	14.3	14.3
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°	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2
2.5°	7314.3	7317.9	7317.9	7332.3	7339.4	7343.0	7343.0	7371.8	7361.0	7368.2	7375.3
5°	7210.3	7231.7	7239.0	7239.0	7278.4	7292.7	7307.1	7339.4	7343.0	7364.5	7389.7
7.5°	7109.7	7134.8	7149.3	7181.5	7206.6	7231.7	7274.9	7296.4	7317.9	7346.7	7378.9
10°	7012.8	7041.6	7070.3	7095.4	7134.8	7167.2	7195.8	7246.1	7271.3	7310.8	7353.8
12.5°	6919.6	6959.0	6984.1	7027.1	7070.3	7098.9	7142.1	7188.7	7228.2	7267.6	7317.9
15°	6837.0	6883.7	6912.4	6959.0	7005.7	7045.2	7091.8	7149.3	7178.0	7224.6	7271.3
17.5°	6747.2	6797.6	6833.5	6876.5	6933.9	6976.9	7016.5	7073.8	7109.7	7159.9	7213.9
20°	6654.0	6704.2	6747.2	6790.3	6847.8	6890.8	6937.5	6994.9	7034.4	7084.6	7127.7
22.5°	6542.7	6589.4	6636.0	6686.2	6743.6	6779.5	6833.5	6883.7	6926.7	6973.4	7016.5
25°	6399.2	6456.6	6492.5	6539.0	6585.7	6625.2	6682.6	6732.9	6768.8	6811.9	6851.3
27.5°	6230.5	6273.6	6302.2	6341.7	6388.4	6424.3	6467.3	6517.6	6553.5	6593.0	6621.6
30°	5943.3	5982.9	6008.0	6036.6	6083.3	6115.7	6151.6	6198.1	6223.2	6252.0	6277.1
32.5°	5566.4	5598.8	5613.1	5634.7	5667.0	5699.2	5728.0	5767.5	5778.3	5796.1	5796.1
35°	5021.0	5028.1	5024.6	5031.8	5046.1	5064.0	5089.1	5114.2	5128.6	5128.6	5117.9
37.5°	4382.1	4339.1	4292.4	4256.5	4245.8	4238.5	4253.0	4263.6	4278.1	4285.2	4267.3
40°	3718.2	3621.3	3517.2	3423.8	3359.3	3330.6	3319.8	3326.9	3326.9	3352.0	3352.0
42.5°	3147.6	2996.8	2842.5	2702.5	2609.1	2537.5	2505.1	2505.1	2508.7	2526.7	2537.5
45°	2673.8	2483.6	2304.1	2149.8	2020.6	1927.2	1884.2	1873.4	1869.9	1877.0	1902.1
47.5°	2311.3	2113.9	1927.2	1737.1	1600.7	1507.4	1467.9	1453.5	1439.1	1453.5	1457.2
50°	2027.8	1823.2	1625.9	1435.6	1292.0	1209.4	1159.2	1137.6	1134.1	1134.1	1141.3
52.5°	1769.3	1579.2	1381.8	1188.0	1037.2	958.3	911.6	900.8	886.5	900.8	900.8
55°	1525.3	1335.1	1141.3	958.3	832.6	750.1	707.0	692.7	685.4	696.2	696.2
57.5°	1259.8	1098.2	918.8	753.7	628.1	570.7	538.3	520.4	516.7	524.0	516.7
60°	1033.6	897.3	742.9	592.2	495.3	434.3	409.2	402.0	394.7	402.0	402.0
62.5°	818.2	703.5	577.8	463.0	380.4	337.4	308.6	308.6	305.1	305.1	308.6
65°	606.6	516.7	427.1	330.2	265.6	233.3	211.7	211.7	208.1	211.7	208.1
67.5°	441.4	380.4	308.6	240.5	190.3	172.2	157.9	147.1	154.4	147.1	143.6
70°	323.1	272.7	222.5	183.0	147.1	129.3	118.5	114.8	107.7	107.7	107.7
72.5°	215.4	183.0	150.7	118.5	96.9	78.9	75.3	68.2	61.0	64.6	71.8
75°	143.6	122.0	107.7	86.1	64.6	64.6	43.1	43.1	35.9	43.1	32.4
77.5°	100.5	82.6	64.6	53.8	43.1	39.4	28.7	28.7	25.1	25.1	25.1
80°	71.8	61.0	46.7	39.4	28.7	28.7	25.1	21.6	17.9	17.9	21.6
82.5°	43.1	32.4	32.4	28.7	17.9	14.3	10.8	14.3	7.2	7.2	7.2
85°	25.1	21.6	17.9	10.8	7.2	7.2	3.5	0.0	3.5	3.5	0.0
87.5°	14.3	7.2	7.2	3.5	0.0	3.5	3.5	0.0	0.0	0.0	7.2
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°	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2
2.5°	7393.3	7389.7	7396.9	7396.9	7418.5	7414.8	7425.5	7425.5	7418.5	7422.0	7436.3
5°	7418.5	7429.2	7450.7	7468.7	7500.9	7515.4	7533.2	7551.3	7554.8	7565.6	7576.4
7.5°	7418.5	7454.4	7479.5	7511.7	7554.8	7579.9	7619.4	7651.7	7666.0	7683.9	7705.5
10°	7404.0	7439.9	7486.6	7522.5	7576.4	7615.8	7655.3	7705.5	7727.1	7755.7	7784.5
12.5°	7375.3	7414.8	7465.0	7511.7	7572.7	7608.6	7658.8	7705.5	7737.8	7777.3	7809.6
15°	7332.3	7378.9	7425.5	7472.2	7536.8	7579.9	7626.6	7680.4	7712.7	7755.7	7784.5
17.5°	7264.1	7314.3	7357.4	7400.4	7461.4	7511.7	7554.8	7605.0	7637.4	7673.3	7712.7
20°	7181.5	7228.2	7274.9	7310.8	7371.8	7414.8	7461.4	7508.1	7533.2	7540.5	7601.5
22.5°	7077.5	7109.7	7145.6	7203.1	7239.0	7278.4	7321.5	7364.5	7389.7	7429.2	7450.7
25°	6905.1	6937.5	6976.9	7002.0	7045.2	7077.5	7120.5	7167.2	7181.5	7210.3	7231.7
27.5°	6664.8	6682.6	6700.7	6722.1	6747.2	6765.2	6790.3	6811.9	6826.2	6840.6	6854.9
30°	6284.2	6284.2	6284.2	6269.9	6280.7	6291.5	6295.0	6291.5	6291.5	6287.9	6287.9
32.5°	5781.8	5753.2	5720.8	5692.1	5681.4	5667.0	5659.8	5649.0	5631.1	5620.3	5623.9
35°	5103.5	5038.9	4999.5	4963.6	4934.9	4913.3	4902.6	4891.8	4888.2	4873.9	4859.4
37.5°	4256.5	4209.9	4181.2	4159.6	4134.5	4113.0	4116.5	4120.2	4130.8	4123.7	4127.3
40°	3359.3	3348.5	3359.3	3334.2	3326.9	3334.2	3352.0	3377.3	3391.6	3405.9	3431.1
42.5°	2555.3	2573.2	2598.5	2598.5	2609.1	2623.6	2645.0	2684.6	2706.0	2731.1	2759.9
45°	1923.7	1945.2	1977.6	1988.2	1995.5	2013.3	2038.6	2070.8	2085.1	2106.7	2131.8
47.5°	1482.3	1496.6	1514.5	1532.5	1550.4	1557.6	1582.7	1582.7	1600.7	1615.1	1622.2
50°	1155.7	1170.0	1184.3	1195.1	1202.3	1213.1	1220.2	1231.0	1234.5	1241.8	1245.3
52.5°	904.4	922.4	922.4	929.5	940.3	951.1	947.5	951.1	954.6	954.6	965.4
55°	707.0	707.0	717.8	717.8	725.0	721.3	725.0	725.0	725.0	725.0	728.6
57.5°	527.5	531.2	542.0	534.8	531.2	538.3	531.2	538.3	534.8	542.0	531.2
60°	405.5	405.5	409.2	409.2	412.7	412.7	412.7	409.2	409.2	405.5	405.5
62.5°	305.1	308.6	312.3	308.6	308.6	308.6	305.1	305.1	301.5	297.8	297.8
65°	204.6	201.1	208.1	201.1	204.6	204.6	201.1	204.6	193.8	197.4	193.8
67.5°	147.1	143.6	140.0	143.6	140.0	136.4	136.4	140.0	143.6	132.8	132.8
70°	96.9	100.5	96.9	100.5	104.1	104.1	100.5	96.9	100.5	93.4	96.9
72.5°	61.0	61.0	61.0	61.0	61.0	64.6	64.6	64.6	57.5	57.5	53.8
75°	28.7	39.4	32.4	28.7	39.4	39.4	35.9	35.9	32.4	32.4	32.4
77.5°	28.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6	17.9	21.6	17.9
80°	14.3	14.3	14.3	10.8	14.3	14.3	17.9	14.3	14.3	10.8	17.9
82.5°	7.2	7.2	7.2	0.0	3.5	7.2	7.2	3.5	7.2	7.2	3.5
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: P248691

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2
2.5°	7432.8	7429.2	7432.8	7436.3	7432.8	7429.2	7432.8	7436.3	7422.0	7418.5	7425.5
5°	7590.7	7590.7	7597.8	7601.5	7597.8	7590.7	7590.7	7576.4	7565.6	7554.8	7551.3
7.5°	7727.1	7734.3	7741.4	7744.9	7741.4	7734.3	7727.1	7705.5	7683.9	7666.0	7651.7
10°	7809.6	7820.4	7834.7	7841.8	7834.7	7820.4	7809.6	7784.5	7755.7	7727.1	7705.5
12.5°	7845.5	7856.3	7874.2	7870.6	7874.2	7856.3	7845.5	7809.6	7777.3	7737.8	7705.5
15°	7820.4	7834.7	7852.6	7859.9	7852.6	7834.7	7820.4	7784.5	7755.7	7712.7	7680.4
17.5°	7741.4	7763.0	7773.7	7784.5	7773.7	7763.0	7741.4	7712.7	7673.3	7637.4	7605.0
20°	7633.7	7648.2	7662.5	7666.0	7662.5	7648.2	7633.7	7601.5	7540.5	7533.2	7508.1
22.5°	7479.5	7490.3	7522.5	7511.7	7522.5	7490.3	7479.5	7450.7	7429.2	7389.7	7364.5
25°	7256.8	7267.6	7271.3	7274.9	7271.3	7267.6	7256.8	7231.7	7210.3	7181.5	7167.2
27.5°	6872.9	6872.9	6880.0	6883.7	6880.0	6872.9	6872.9	6854.9	6840.6	6826.2	6811.9
30°	6291.5	6291.5	6291.5	6309.5	6291.5	6291.5	6291.5	6287.9	6287.9	6291.5	6291.5
32.5°	5620.3	5613.1	5606.0	5613.1	5606.0	5613.1	5620.3	5623.9	5620.3	5631.1	5649.0
35°	4859.4	4855.9	4866.7	4852.3	4866.7	4855.9	4859.4	4859.4	4873.9	4888.2	4891.8
37.5°	4130.8	4123.7	4138.1	4123.7	4138.1	4123.7	4130.8	4127.3	4123.7	4130.8	4120.2
40°	3438.3	3445.4	3445.4	3474.2	3445.4	3445.4	3438.3	3431.1	3405.9	3391.6	3377.3
42.5°	2774.3	2795.8	2788.6	2810.2	2788.6	2795.8	2774.3	2759.9	2731.1	2706.0	2684.6
45°	2146.1	2160.6	2160.6	2167.7	2160.6	2160.6	2146.1	2131.8	2106.7	2085.1	2070.8
47.5°	1647.3	1647.3	1647.3	1651.0	1647.3	1647.3	1647.3	1622.2	1615.1	1600.7	1582.7
50°	1252.6	1256.1	1259.8	1263.3	1259.8	1256.1	1252.6	1245.3	1241.8	1234.5	1231.0
52.5°	961.8	965.4	958.3	965.4	958.3	965.4	961.8	965.4	954.6	954.6	951.1
55°	728.6	725.0	728.6	732.1	728.6	725.0	728.6	728.6	725.0	725.0	725.0
57.5°	534.8	527.5	527.5	527.5	527.5	527.5	534.8	531.2	542.0	534.8	538.3
60°	398.4	402.0	402.0	405.5	402.0	402.0	398.4	405.5	405.5	409.2	409.2
62.5°	294.3	305.1	297.8	305.1	297.8	305.1	294.3	297.8	297.8	301.5	305.1
65°	190.3	190.3	190.3	193.8	190.3	190.3	190.3	193.8	197.4	193.8	204.6
67.5°	129.3	132.8	140.0	136.4	140.0	132.8	129.3	132.8	132.8	143.6	140.0
70°	104.1	93.4	93.4	104.1	93.4	93.4	104.1	96.9	93.4	100.5	96.9
72.5°	61.0	53.8	61.0	61.0	61.0	53.8	61.0	53.8	57.5	57.5	64.6
75°	32.4	28.7	25.1	35.9	25.1	28.7	32.4	32.4	32.4	32.4	35.9
77.5°	21.6	17.9	25.1	25.1	25.1	17.9	21.6	17.9	21.6	17.9	21.6
80°	10.8	14.3	10.8	17.9	10.8	14.3	10.8	17.9	10.8	14.3	14.3
82.5°	3.5	7.2	7.2	7.2	7.2	7.2	3.5	3.5	7.2	7.2	3.5
85°	0.0	7.2	3.5	3.5	3.5	7.2	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.0	0.0	3.5	0.0	0.0	3.5	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: P248691

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2
2.5°	7425.5	7414.8	7418.5	7396.9	7396.9	7389.7	7393.3	7375.3	7368.2	7361.0	7371.8
5°	7533.2	7515.4	7500.9	7468.7	7450.7	7429.2	7418.5	7389.7	7364.5	7343.0	7339.4
7.5°	7619.4	7579.9	7554.8	7511.7	7479.5	7454.4	7418.5	7378.9	7346.7	7317.9	7296.4
10°	7655.3	7615.8	7576.4	7522.5	7486.6	7439.9	7404.0	7353.8	7310.8	7271.3	7246.1
12.5°	7658.8	7608.6	7572.7	7511.7	7465.0	7414.8	7375.3	7317.9	7267.6	7228.2	7188.7
15°	7626.6	7579.9	7536.8	7472.2	7425.5	7378.9	7332.3	7271.3	7224.6	7178.0	7149.3
17.5°	7554.8	7511.7	7461.4	7400.4	7357.4	7314.3	7264.1	7213.9	7159.9	7109.7	7073.8
20°	7461.4	7414.8	7371.8	7310.8	7274.9	7228.2	7181.5	7127.7	7084.6	7034.4	6994.9
22.5°	7321.5	7278.4	7239.0	7203.1	7145.6	7109.7	7077.5	7016.5	6973.4	6926.7	6883.7
25°	7120.5	7077.5	7045.2	7002.0	6976.9	6937.5	6905.1	6851.3	6811.9	6768.8	6732.9
27.5°	6790.3	6765.2	6747.2	6722.1	6700.7	6682.6	6664.8	6621.6	6593.0	6553.5	6517.6
30°	6295.0	6291.5	6280.7	6269.9	6284.2	6284.2	6284.2	6277.1	6252.0	6223.2	6198.1
32.5°	5659.8	5667.0	5681.4	5692.1	5720.8	5753.2	5781.8	5796.1	5796.1	5778.3	5767.5
35°	4902.6	4913.3	4934.9	4963.6	4999.5	5038.9	5103.5	5117.9	5128.6	5128.6	5114.2
37.5°	4116.5	4113.0	4134.5	4159.6	4181.2	4209.9	4256.5	4267.3	4285.2	4278.1	4263.6
40°	3352.0	3334.2	3326.9	3334.2	3359.3	3348.5	3359.3	3352.0	3352.0	3326.9	3326.9
42.5°	2645.0	2623.6	2609.1	2598.5	2598.5	2573.2	2555.3	2537.5	2526.7	2508.7	2505.1
45°	2038.6	2013.3	1995.5	1988.2	1977.6	1945.2	1923.7	1902.1	1877.0	1869.9	1873.4
47.5°	1582.7	1557.6	1550.4	1532.5	1514.5	1496.6	1482.3	1457.2	1453.5	1439.1	1453.5
50°	1220.2	1213.1	1202.3	1195.1	1184.3	1170.0	1155.7	1141.3	1134.1	1134.1	1137.6
52.5°	947.5	951.1	940.3	929.5	922.4	922.4	904.4	900.8	900.8	886.5	900.8
55°	725.0	721.3	725.0	717.8	717.8	707.0	707.0	696.2	696.2	685.4	692.7
57.5°	531.2	538.3	531.2	534.8	542.0	531.2	527.5	516.7	524.0	516.7	520.4
60°	412.7	412.7	412.7	409.2	409.2	405.5	405.5	402.0	402.0	394.7	402.0
62.5°	305.1	308.6	308.6	308.6	312.3	308.6	305.1	308.6	305.1	305.1	308.6
65°	201.1	204.6	204.6	201.1	208.1	201.1	204.6	208.1	211.7	208.1	211.7
67.5°	136.4	136.4	140.0	143.6	140.0	143.6	147.1	143.6	147.1	154.4	147.1
70°	100.5	104.1	104.1	100.5	96.9	100.5	96.9	107.7	107.7	107.7	114.8
72.5°	64.6	64.6	61.0	61.0	61.0	61.0	61.0	71.8	64.6	61.0	68.2
75°	35.9	39.4	39.4	28.7	32.4	39.4	28.7	32.4	43.1	35.9	43.1
77.5°	21.6	21.6	21.6	21.6	21.6	21.6	28.7	25.1	25.1	25.1	28.7
80°	17.9	14.3	14.3	10.8	14.3	14.3	14.3	21.6	17.9	17.9	21.6
82.5°	7.2	7.2	3.5	0.0	7.2	7.2	7.2	7.2	7.2	7.2	14.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	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: P248691

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2
2.5°	7343.0	7343.0	7339.4	7332.3	7317.9	7317.9	7314.3	7303.5	7296.4	7292.7	7292.7
5°	7307.1	7292.7	7278.4	7239.0	7239.0	7231.7	7210.3	7195.8	7188.7	7170.7	7163.6
7.5°	7274.9	7231.7	7206.6	7181.5	7149.3	7134.8	7109.7	7098.9	7073.8	7055.9	7045.2
10°	7195.8	7167.2	7134.8	7095.4	7070.3	7041.6	7012.8	6991.4	6959.0	6941.0	6926.7
12.5°	7142.1	7098.9	7070.3	7027.1	6984.1	6959.0	6919.6	6894.5	6862.1	6826.2	6804.7
15°	7091.8	7045.2	7005.7	6959.0	6912.4	6883.7	6837.0	6808.4	6761.7	6725.8	6700.7
17.5°	7016.5	6976.9	6933.9	6876.5	6833.5	6797.6	6747.2	6711.4	6668.3	6621.6	6596.5
20°	6937.5	6890.8	6847.8	6790.3	6747.2	6704.2	6654.0	6614.5	6564.2	6521.2	6492.5
22.5°	6833.5	6779.5	6743.6	6686.2	6636.0	6589.4	6542.7	6496.1	6449.4	6413.5	6381.1
25°	6682.6	6625.2	6585.7	6539.0	6492.5	6456.6	6399.2	6370.5	6323.8	6291.5	6259.1
27.5°	6467.3	6424.3	6388.4	6341.7	6302.2	6273.6	6230.5	6201.8	6162.2	6133.5	6108.4
30°	6151.6	6115.7	6083.3	6036.6	6008.0	5982.9	5943.3	5918.2	5889.5	5857.2	5850.1
32.5°	5728.0	5699.2	5667.0	5634.7	5613.1	5598.8	5566.4	5552.1	5523.4	5505.4	5487.5
35°	5089.1	5064.0	5046.1	5031.8	5024.6	5028.1	5021.0	5035.4	5042.4	5038.9	5042.4
37.5°	4253.0	4238.5	4245.8	4256.5	4292.4	4339.1	4382.1	4446.7	4489.8	4532.9	4572.4
40°	3319.8	3330.6	3359.3	3423.8	3517.2	3621.3	3718.2	3840.3	3962.3	4048.4	4127.3
42.5°	2505.1	2537.5	2609.1	2702.5	2842.5	2996.8	3147.6	3326.9	3474.2	3617.6	3718.2
45°	1884.2	1927.2	2020.6	2149.8	2304.1	2483.6	2673.8	2874.7	3050.7	3197.8	3309.0
47.5°	1467.9	1507.4	1600.7	1737.1	1927.2	2113.9	2311.3	2519.5	2702.5	2846.1	2943.0
50°	1159.2	1209.4	1292.0	1435.6	1625.9	1823.2	2027.8	2232.3	2404.7	2526.7	2612.8
52.5°	911.6	958.3	1037.2	1188.0	1381.8	1579.2	1769.3	1970.4	2121.0	2239.5	2297.0
55°	707.0	750.1	832.6	958.3	1141.3	1335.1	1525.3	1697.7	1837.6	1923.7	1977.6
57.5°	538.3	570.7	628.1	753.7	918.8	1098.2	1259.8	1432.0	1539.7	1600.7	1636.5
60°	409.2	434.3	495.3	592.2	742.9	897.3	1033.6	1162.9	1249.0	1299.2	1335.1
62.5°	308.6	337.4	380.4	463.0	577.8	703.5	818.2	915.2	987.0	1019.3	1044.4
65°	211.7	233.3	265.6	330.2	427.1	516.7	606.6	678.4	725.0	760.9	775.3
67.5°	157.9	172.2	190.3	240.5	308.6	380.4	441.4	491.6	542.0	556.3	581.4
70°	118.5	129.3	147.1	183.0	222.5	272.7	323.1	351.7	387.6	412.7	420.0
72.5°	75.3	78.9	96.9	118.5	150.7	183.0	215.4	240.5	262.1	276.4	283.5
75°	43.1	64.6	64.6	86.1	107.7	122.0	143.6	161.5	172.2	183.0	183.0
77.5°	28.7	39.4	43.1	53.8	64.6	82.6	100.5	111.2	122.0	125.6	125.6
80°	25.1	28.7	28.7	39.4	46.7	61.0	71.8	75.3	82.6	86.1	93.4
82.5°	10.8	14.3	17.9	28.7	32.4	32.4	43.1	46.7	53.8	57.5	57.5
85°	3.5	7.2	7.2	10.8	17.9	21.6	25.1	28.7	32.4	32.4	35.9
87.5°	3.5	3.5	0.0	3.5	7.2	7.2	14.3	14.3	14.3	21.6	21.6
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: P248691

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2	7350.2
2.5°	7285.7	7289.2	7274.9	7271.3	7264.1	7267.6	7274.9
5°	7152.8	7156.4	7142.1	7127.7	7127.7	7124.0	7127.7
7.5°	7027.1	7030.8	7009.3	7002.0	6987.7	6991.4	6991.4
10°	6901.6	6901.6	6869.4	6865.7	6854.9	6851.3	6851.3
12.5°	6779.5	6768.8	6743.6	6729.3	6736.6	6715.0	6715.0
15°	6671.9	6654.0	6621.6	6610.8	6593.0	6585.7	6585.7
17.5°	6560.6	6546.3	6517.6	6496.1	6474.5	6470.9	6474.5
20°	6452.9	6438.6	6402.7	6388.4	6370.5	6370.5	6363.3
22.5°	6345.2	6330.9	6298.7	6287.9	6262.8	6262.8	6266.3
25°	6234.0	6223.2	6187.3	6180.2	6176.7	6162.2	6169.4
27.5°	6083.3	6076.1	6047.4	6036.6	6022.3	6018.8	6025.9
30°	5806.9	5796.1	5774.7	5763.9	5738.8	5742.4	5749.5
32.5°	5462.4	5448.1	5419.3	5408.5	5387.1	5379.9	5383.4
35°	5031.8	5021.0	4995.9	4995.9	4974.3	4967.1	4974.3
37.5°	4594.0	4604.6	4594.0	4604.6	4594.0	4590.3	4594.0
40°	4181.2	4220.7	4227.7	4267.3	4253.0	4274.4	4270.9
42.5°	3786.3	3850.9	3876.2	3908.4	3901.3	3915.6	3926.4
45°	3387.9	3441.8	3467.0	3488.5	3492.1	3499.3	3502.9
47.5°	3011.1	3054.2	3057.8	3082.9	3079.3	3079.3	3090.1
50°	2659.5	2688.2	2695.2	2713.3	2698.9	2691.7	2695.2
52.5°	2332.9	2361.5	2354.3	2361.5	2343.7	2336.4	2340.0
55°	1999.0	2013.3	2013.3	2013.3	1991.9	1991.9	1991.9
57.5°	1658.1	1661.8	1654.5	1658.1	1654.5	1633.0	1629.4
60°	1345.9	1345.9	1342.2	1345.9	1335.1	1324.4	1324.4
62.5°	1051.5	1058.7	1073.1	1058.7	1051.5	1058.7	1048.0
65°	786.0	800.4	796.7	803.9	800.4	800.4	793.1
67.5°	592.2	595.8	599.3	603.0	603.0	603.0	603.0
70°	434.3	445.1	441.4	441.4	441.4	441.4	463.0
72.5°	290.7	305.1	301.5	308.6	308.6	315.8	308.6
75°	197.4	211.7	204.6	215.4	211.7	204.6	222.5
77.5°	132.8	140.0	143.6	147.1	143.6	140.0	143.6
80°	93.4	100.5	96.9	100.5	100.5	100.5	104.1
82.5°	57.5	68.2	64.6	68.2	64.6	68.2	68.2
85°	39.4	43.1	35.9	43.1	39.4	39.4	46.7
87.5°	25.1	21.6	21.6	25.1	21.6	25.1	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)