

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: P248845

Luminaire Tested: **LD8B150D010 ER8B150950 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248845
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 ER8B150950 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13870.0 lumens
Efficiency: N/A
Efficacy: 87.5 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

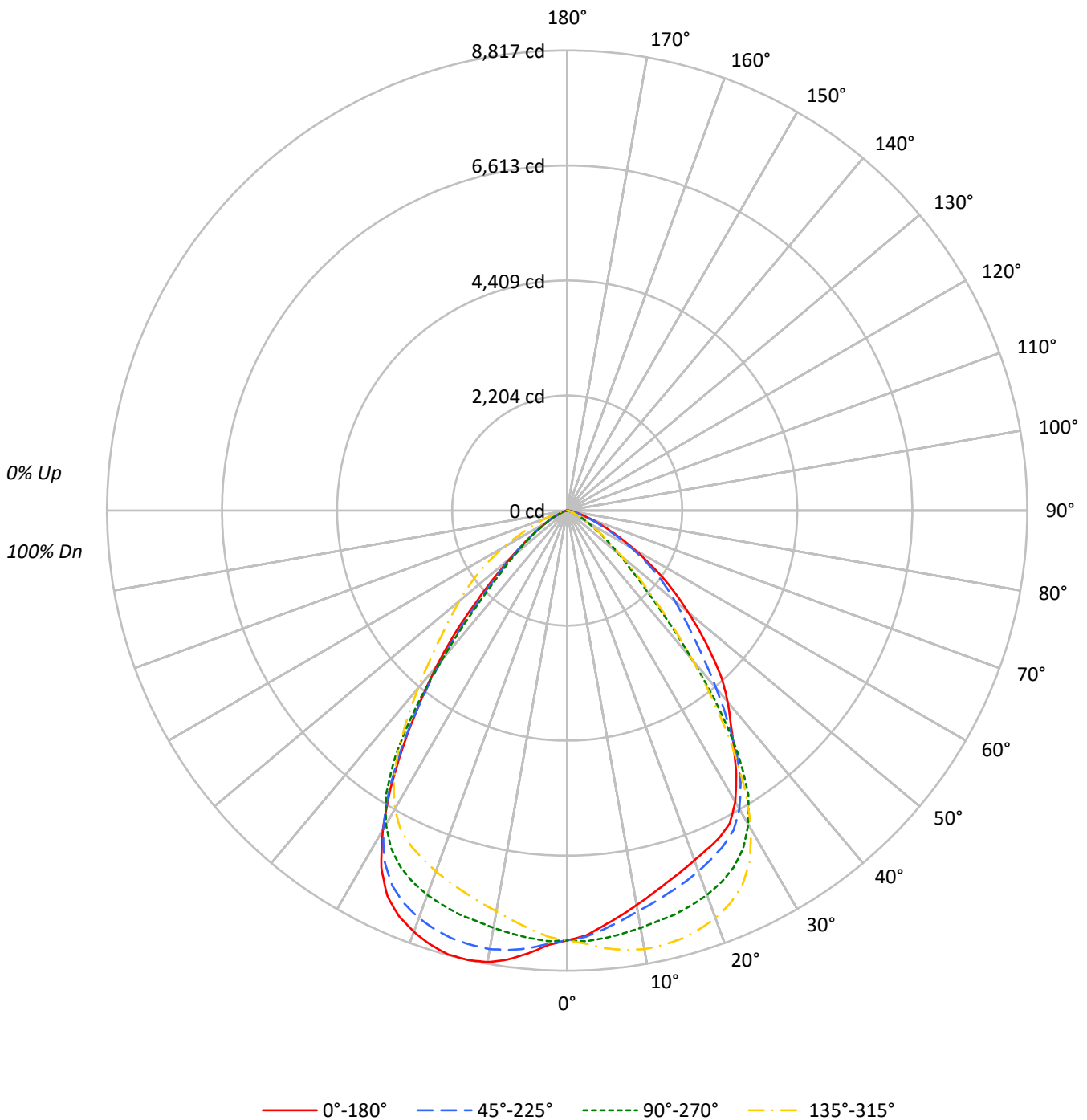
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248845

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248845

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0GPH

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°	253912	253912	253912	253912
5°	247169	254508	263596	254508
10°	240329	254175	275073	254175
15°	235530	255683	281095	255683
20°	233924	257147	281818	257147
25°	235154	256630	277290	256630
30°	229339	247235	251679	247235
35°	209776	215675	204630	215675
40°	192595	150026	156668	150026
45°	171127	91527	105900	91527
50°	144849	61137	67896	61137
55°	119969	41719	44095	41719
60°	91498	27771	28018	27771
65°	64829	17300	15841	17300
70°	46757	11594	10522	11594
75°	29690	5755	4790	5755
80°	20723	4297	3552	4297
85°	18504	0	1415	0



TEST NUMBER: P248845

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.7	5.7
10°-20°	2269.6	16.4
20°-30°	3436.6	24.8
30°-40°	3444.3	24.8
40°-50°	2162.9	15.6
50°-60°	1152.6	8.3
60°-70°	474.0	3.4
70°-80°	125.2	0.9
80°-90°	21.2	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°	6489.9	46.8
0°-40°	9934.2	71.6
0°-60°	13249.6	95.5
0°-90°	13870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13870.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8234	8234	8234	8234	8234	
5°	7985	8222	8516	8222	7985	753
15°	7378	8009	8805	8009	7378	2087
25°	6911	7543	8150	7543	6911	3170
35°	5573	5729	5436	5729	5573	3491
45°	3924	2099	2428	2099	3924	3018
55°	2232	776	820	776	2232	1990
65°	888	237	217	237	888	922
75°	249	48	40	48	249	282
85°	52	0	4	0	52	58
90°	0	0	0	0	0	



TEST NUMBER: P248845

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2
2.5°	8149.8	8141.7	8137.7	8145.8	8149.8	8165.8	8161.9	8169.8	8169.8	8173.9	8181.9
5°	7985.0	7980.8	7985.0	7985.0	8001.0	8017.1	8013.1	8025.2	8033.1	8053.3	8061.2
7.5°	7832.2	7832.2	7828.1	7844.1	7852.2	7876.4	7872.3	7892.4	7904.5	7924.5	7952.7
10°	7675.3	7675.3	7679.3	7691.4	7695.5	7731.6	7731.6	7759.7	7775.8	7796.0	7832.2
12.5°	7522.6	7522.6	7546.7	7538.6	7554.7	7582.8	7594.9	7623.0	7647.2	7687.4	7723.6
15°	7377.8	7377.8	7385.9	7405.9	7418.0	7454.2	7474.2	7506.5	7534.6	7574.9	7627.2
17.5°	7253.1	7249.2	7253.1	7277.3	7301.5	7333.6	7349.6	7389.8	7418.0	7470.3	7518.6
20°	7128.5	7136.6	7136.6	7156.7	7172.7	7212.9	7229.0	7273.3	7305.4	7353.6	7410.0
22.5°	7020.0	7016.0	7016.0	7044.1	7056.2	7092.3	7108.3	7148.6	7184.8	7225.0	7277.3
25°	6911.4	6903.3	6919.5	6923.5	6931.4	6971.6	6983.7	7011.9	7048.1	7084.3	7136.6
27.5°	6750.6	6742.6	6746.6	6762.6	6774.7	6806.8	6814.9	6843.1	6871.2	6903.3	6947.7
30°	6440.9	6433.0	6429.0	6457.1	6469.2	6493.2	6505.3	6553.6	6561.6	6597.8	6629.9
32.5°	6030.8	6026.9	6035.0	6059.0	6071.0	6103.3	6119.4	6147.5	6167.5	6187.7	6219.8
35°	5572.6	5564.5	5572.6	5596.7	5596.7	5624.9	5637.0	5648.9	5644.9	5648.9	5640.9
37.5°	5146.4	5142.3	5146.4	5158.4	5146.4	5158.4	5146.4	5122.3	5078.1	5029.8	4981.5
40°	4784.5	4788.5	4764.5	4780.5	4736.2	4728.2	4684.1	4623.7	4535.3	4438.8	4302.1
42.5°	4398.6	4386.5	4370.5	4378.4	4342.3	4314.0	4241.7	4165.4	4052.7	3892.0	3727.0
45°	3924.1	3920.2	3912.0	3908.1	3883.9	3855.8	3795.4	3707.0	3582.4	3417.6	3220.5
47.5°	3461.7	3449.7	3449.7	3453.6	3425.5	3421.5	3373.2	3296.9	3188.4	3027.5	2822.5
50°	3019.4	3015.4	3023.5	3039.6	3019.4	3011.4	2979.3	2927.0	2830.6	2693.9	2500.7
52.5°	2621.4	2617.4	2625.5	2645.5	2637.4	2645.5	2613.4	2573.2	2508.8	2376.1	2207.3
55°	2231.5	2231.5	2231.5	2255.5	2255.5	2255.5	2239.4	2215.4	2155.0	2058.5	1901.8
57.5°	1825.4	1829.3	1853.5	1857.5	1853.5	1861.6	1857.5	1833.3	1793.3	1724.9	1604.3
60°	1483.6	1483.6	1495.7	1507.8	1503.7	1507.8	1507.8	1495.7	1455.5	1399.2	1302.7
62.5°	1174.0	1186.1	1178.0	1186.1	1202.1	1186.1	1178.0	1170.0	1141.9	1105.6	1025.2
65°	888.5	896.6	896.6	900.6	892.5	896.6	880.6	868.5	852.4	812.2	759.9
67.5°	675.5	675.5	675.5	675.5	671.4	667.4	663.5	651.4	623.2	607.2	550.8
70°	518.6	494.5	494.5	494.5	494.5	498.6	486.5	470.5	462.4	434.2	394.0
72.5°	345.7	353.8	345.7	345.7	337.8	341.7	325.7	317.6	309.6	293.6	269.4
75°	249.2	229.2	237.1	241.3	229.2	237.1	221.1	205.0	205.0	193.0	180.9
77.5°	160.9	156.9	160.9	164.8	160.9	156.9	148.8	140.7	140.7	136.7	124.6
80°	116.7	112.5	112.5	112.5	108.6	112.5	104.6	104.6	96.5	92.5	84.4
82.5°	76.5	76.5	72.3	76.5	72.3	76.5	64.4	64.4	64.4	60.2	52.3
85°	52.3	44.2	44.2	48.3	40.2	48.3	44.2	40.2	36.2	36.2	32.1
87.5°	24.2	28.1	24.2	28.1	24.2	24.2	28.1	24.2	24.2	16.1	16.1
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: P248845

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2
2.5°	8194.0	8197.9	8197.9	8214.2	8222.1	8226.1	8226.1	8258.3	8246.3	8254.4	8262.3
5°	8077.5	8101.5	8109.6	8109.6	8153.8	8169.8	8185.9	8222.1	8226.1	8250.2	8278.4
7.5°	7964.8	7992.9	8009.1	8045.2	8073.3	8101.5	8149.8	8173.9	8197.9	8230.2	8266.3
10°	7856.2	7888.5	7920.6	7948.7	7992.9	8029.1	8061.2	8117.5	8145.8	8190.0	8238.2
12.5°	7751.8	7796.0	7824.1	7872.3	7920.6	7952.7	8001.0	8053.3	8097.5	8141.7	8197.9
15°	7659.3	7711.6	7743.7	7796.0	7848.3	7892.4	7944.7	8009.1	8041.2	8093.5	8145.8
17.5°	7558.6	7615.1	7655.3	7703.4	7767.8	7816.0	7860.3	7924.5	7964.8	8021.0	8081.4
20°	7454.2	7510.5	7558.6	7607.0	7671.3	7719.5	7771.8	7836.2	7880.4	7936.6	7985.0
22.5°	7329.6	7381.9	7434.0	7490.3	7554.7	7594.9	7655.3	7711.6	7759.7	7812.0	7860.3
25°	7168.7	7233.1	7273.3	7325.5	7377.8	7421.9	7486.3	7542.6	7582.8	7631.1	7675.3
27.5°	6979.8	7028.1	7060.2	7104.4	7156.7	7196.9	7245.0	7301.5	7341.7	7385.9	7418.0
30°	6658.0	6702.4	6730.5	6762.6	6814.9	6851.2	6891.4	6943.5	6971.6	7003.9	7032.1
32.5°	6235.9	6272.1	6288.2	6312.3	6348.6	6384.7	6416.9	6461.1	6473.2	6493.2	6493.2
35°	5624.9	5632.8	5628.9	5637.0	5653.0	5673.0	5701.2	5729.3	5745.4	5745.4	5733.4
37.5°	4909.1	4861.0	4808.7	4768.5	4756.4	4748.3	4764.5	4776.4	4792.6	4800.6	4780.5
40°	4165.4	4056.9	3940.2	3835.6	3763.3	3731.2	3719.1	3727.0	3727.0	3755.2	3755.2
42.5°	3526.1	3357.2	3184.4	3027.5	2922.9	2842.6	2806.4	2806.4	2810.4	2830.6	2842.6
45°	2995.4	2782.2	2581.2	2408.4	2263.6	2159.0	2110.8	2098.8	2094.8	2102.7	2130.9
47.5°	2589.3	2368.2	2159.0	1946.0	1793.3	1688.7	1644.5	1628.3	1612.2	1628.3	1632.4
50°	2271.7	2042.5	1821.4	1608.2	1447.4	1354.9	1298.6	1274.4	1270.5	1270.5	1278.6
52.5°	1982.1	1769.1	1548.0	1330.9	1161.9	1073.5	1021.2	1009.2	993.1	1009.2	1009.2
55°	1708.7	1495.7	1278.6	1073.5	932.7	840.4	792.0	776.0	767.9	780.0	780.0
57.5°	1411.3	1230.3	1029.4	844.3	703.7	639.3	603.0	583.0	578.9	587.0	578.9
60°	1157.9	1005.2	832.3	663.5	554.9	486.5	458.4	450.3	442.2	450.3	450.3
62.5°	916.7	788.1	647.2	518.6	426.1	378.0	345.7	345.7	341.7	341.7	345.7
65°	679.5	578.9	478.4	369.9	297.6	261.3	237.1	237.1	233.2	237.1	233.2
67.5°	494.5	426.1	345.7	269.4	213.2	193.0	176.9	164.8	172.9	164.8	160.9
70°	361.9	305.5	249.2	205.0	164.8	144.8	132.7	128.6	120.6	120.6	120.6
72.5°	241.3	205.0	168.8	132.7	108.6	88.4	84.4	76.5	68.3	72.3	80.4
75°	160.9	136.7	120.6	96.5	72.3	72.3	48.3	48.3	40.2	48.3	36.2
77.5°	112.5	92.5	72.3	60.2	48.3	44.2	32.1	32.1	28.1	28.1	28.1
80°	80.4	68.3	52.3	44.2	32.1	32.1	28.1	24.2	20.0	20.0	24.2
82.5°	48.3	36.2	36.2	32.1	20.0	16.1	12.1	16.1	8.1	8.1	8.1
85°	28.1	24.2	20.0	12.1	8.1	8.1	4.0	0.0	4.0	4.0	0.0
87.5°	16.1	8.1	8.1	4.0	0.0	4.0	4.0	0.0	0.0	0.0	8.1
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: P248845

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2
2.5°	8282.5	8278.4	8286.5	8286.5	8310.6	8306.5	8318.6	8318.6	8310.6	8314.6	8330.7
5°	8310.6	8322.7	8346.7	8366.9	8403.0	8419.2	8439.2	8459.4	8463.4	8475.5	8487.5
7.5°	8310.6	8350.9	8379.0	8415.1	8463.4	8491.5	8535.7	8571.9	8588.0	8608.0	8632.2
10°	8294.4	8334.6	8386.9	8427.1	8487.5	8531.7	8575.9	8632.2	8656.3	8688.5	8720.7
12.5°	8262.3	8306.5	8362.8	8415.1	8483.4	8523.6	8579.9	8632.2	8668.4	8712.6	8748.9
15°	8214.2	8266.3	8318.6	8370.9	8443.2	8491.5	8543.8	8604.1	8640.3	8688.5	8720.7
17.5°	8137.7	8194.0	8242.3	8290.4	8358.8	8415.1	8463.4	8519.7	8555.9	8596.1	8640.3
20°	8045.2	8097.5	8149.8	8190.0	8258.3	8306.5	8358.8	8411.1	8439.2	8447.3	8515.7
22.5°	7928.7	7964.8	8005.0	8069.4	8109.6	8153.8	8202.1	8250.2	8278.4	8322.7	8346.7
25°	7735.6	7771.8	7816.0	7844.1	7892.4	7928.7	7976.8	8029.1	8045.2	8077.5	8101.5
27.5°	7466.3	7486.3	7506.5	7530.5	7558.6	7578.8	7607.0	7631.1	7647.2	7663.2	7679.3
30°	7040.0	7040.0	7040.0	7023.9	7036.0	7048.1	7052.1	7048.1	7048.1	7044.1	7044.1
32.5°	6477.2	6445.1	6408.8	6376.7	6364.6	6348.6	6340.5	6328.4	6308.4	6296.3	6300.2
35°	5717.2	5644.9	5600.7	5560.5	5528.4	5504.2	5492.2	5480.1	5476.1	5460.1	5443.8
37.5°	4768.5	4716.2	4684.1	4659.9	4631.8	4607.6	4611.6	4615.7	4627.6	4619.7	4623.7
40°	3763.3	3751.2	3763.3	3735.1	3727.0	3735.1	3755.2	3783.5	3799.5	3815.6	3843.7
42.5°	2862.7	2882.7	2911.0	2911.0	2922.9	2939.1	2963.1	3007.5	3031.5	3059.6	3091.9
45°	2155.0	2179.2	2215.4	2227.3	2235.5	2255.5	2283.8	2319.9	2335.9	2360.1	2388.2
47.5°	1660.5	1676.6	1696.6	1716.8	1736.8	1744.9	1773.1	1773.1	1793.3	1809.3	1817.3
50°	1294.6	1310.7	1326.7	1338.8	1346.9	1359.0	1367.0	1379.0	1383.0	1391.1	1395.1
52.5°	1013.1	1033.3	1033.3	1041.3	1053.4	1065.4	1061.5	1065.4	1069.4	1069.4	1081.5
55°	792.0	792.0	804.1	804.1	812.2	808.1	812.2	812.2	812.2	812.2	816.2
57.5°	591.0	595.1	607.2	599.1	595.1	603.0	595.1	603.0	599.1	607.2	595.1
60°	454.3	454.3	458.4	458.4	462.4	462.4	462.4	458.4	458.4	454.3	454.3
62.5°	341.7	345.7	349.8	345.7	345.7	345.7	341.7	341.7	337.8	333.6	333.6
65°	229.2	225.2	233.2	225.2	229.2	229.2	225.2	229.2	217.1	221.1	217.1
67.5°	164.8	160.9	156.9	160.9	156.9	152.7	152.7	156.9	160.9	148.8	148.8
70°	108.6	112.5	108.6	112.5	116.7	116.7	112.5	108.6	112.5	104.6	108.6
72.5°	68.3	68.3	68.3	68.3	68.3	72.3	72.3	72.3	64.4	64.4	60.2
75°	32.1	44.2	36.2	32.1	44.2	44.2	40.2	40.2	36.2	36.2	36.2
77.5°	32.1	24.2	24.2	24.2	24.2	24.2	24.2	24.2	20.0	24.2	20.0
80°	16.1	16.1	16.1	12.1	16.1	16.1	20.0	16.1	16.1	12.1	20.0
82.5°	8.1	8.1	8.1	0.0	4.0	8.1	8.1	4.0	8.1	8.1	4.0
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: P248845

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2
2.5°	8326.7	8322.7	8326.7	8330.7	8326.7	8322.7	8326.7	8330.7	8314.6	8310.6	8318.6
5°	8503.6	8503.6	8511.5	8515.7	8511.5	8503.6	8503.6	8487.5	8475.5	8463.4	8459.4
7.5°	8656.3	8664.5	8672.4	8676.4	8672.4	8664.5	8656.3	8632.2	8608.0	8588.0	8571.9
10°	8748.9	8760.9	8777.0	8784.9	8777.0	8760.9	8748.9	8720.7	8688.5	8656.3	8632.2
12.5°	8789.1	8801.2	8821.2	8817.2	8821.2	8801.2	8789.1	8748.9	8712.6	8668.4	8632.2
15°	8760.9	8777.0	8797.0	8805.1	8797.0	8777.0	8760.9	8720.7	8688.5	8640.3	8604.1
17.5°	8672.4	8696.6	8708.6	8720.7	8708.6	8696.6	8672.4	8640.3	8596.1	8555.9	8519.7
20°	8551.8	8568.0	8584.0	8588.0	8584.0	8568.0	8551.8	8515.7	8447.3	8439.2	8411.1
22.5°	8379.0	8391.1	8427.1	8415.1	8427.1	8391.1	8379.0	8346.7	8322.7	8278.4	8250.2
25°	8129.6	8141.7	8145.8	8149.8	8145.8	8141.7	8129.6	8101.5	8077.5	8045.2	8029.1
27.5°	7699.5	7699.5	7707.4	7711.6	7707.4	7699.5	7699.5	7679.3	7663.2	7647.2	7631.1
30°	7048.1	7048.1	7048.1	7068.3	7048.1	7048.1	7048.1	7044.1	7044.1	7048.1	7048.1
32.5°	6296.3	6288.2	6280.2	6288.2	6280.2	6288.2	6296.3	6300.2	6296.3	6308.4	6328.4
35°	5443.8	5439.9	5451.9	5435.9	5451.9	5439.9	5443.8	5443.8	5460.1	5476.1	5480.1
37.5°	4627.6	4619.7	4635.7	4619.7	4635.7	4619.7	4627.6	4623.7	4619.7	4627.6	4615.7
40°	3851.8	3859.8	3859.8	3892.0	3859.8	3859.8	3851.8	3843.7	3815.6	3799.5	3783.5
42.5°	3107.9	3132.1	3124.0	3148.1	3124.0	3132.1	3107.9	3091.9	3059.6	3031.5	3007.5
45°	2404.3	2420.5	2420.5	2428.4	2420.5	2420.5	2404.3	2388.2	2360.1	2335.9	2319.9
47.5°	1845.4	1845.4	1845.4	1849.5	1845.4	1845.4	1845.4	1817.3	1809.3	1793.3	1773.1
50°	1403.2	1407.2	1411.3	1415.3	1411.3	1407.2	1403.2	1395.1	1391.1	1383.0	1379.0
52.5°	1077.5	1081.5	1073.5	1081.5	1073.5	1081.5	1077.5	1081.5	1069.4	1069.4	1065.4
55°	816.2	812.2	816.2	820.2	816.2	812.2	816.2	816.2	812.2	812.2	812.2
57.5°	599.1	591.0	591.0	591.0	591.0	591.0	599.1	595.1	607.2	599.1	603.0
60°	446.3	450.3	450.3	454.3	450.3	450.3	446.3	454.3	454.3	458.4	458.4
62.5°	329.7	341.7	333.6	341.7	333.6	341.7	329.7	333.6	333.6	337.8	341.7
65°	213.2	213.2	213.2	217.1	213.2	213.2	213.2	217.1	221.1	217.1	229.2
67.5°	144.8	148.8	156.9	152.7	156.9	148.8	144.8	148.8	148.8	160.9	156.9
70°	116.7	104.6	104.6	116.7	104.6	104.6	116.7	108.6	104.6	112.5	108.6
72.5°	68.3	60.2	68.3	68.3	68.3	60.2	68.3	60.2	64.4	64.4	72.3
75°	36.2	32.1	28.1	40.2	28.1	32.1	36.2	36.2	36.2	36.2	40.2
77.5°	24.2	20.0	28.1	28.1	28.1	20.0	24.2	20.0	24.2	20.0	24.2
80°	12.1	16.1	12.1	20.0	12.1	16.1	12.1	20.0	12.1	16.1	16.1
82.5°	4.0	8.1	8.1	8.1	8.1	8.1	4.0	4.0	8.1	8.1	4.0
85°	0.0	8.1	4.0	4.0	4.0	8.1	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.0	0.0	4.0	0.0	0.0	4.0	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: P248845

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2
2.5°	8318.6	8306.5	8310.6	8286.5	8286.5	8278.4	8282.5	8262.3	8254.4	8246.3	8258.3
5°	8439.2	8419.2	8403.0	8366.9	8346.7	8322.7	8310.6	8278.4	8250.2	8226.1	8222.1
7.5°	8535.7	8491.5	8463.4	8415.1	8379.0	8350.9	8310.6	8266.3	8230.2	8197.9	8173.9
10°	8575.9	8531.7	8487.5	8427.1	8386.9	8334.6	8294.4	8238.2	8190.0	8145.8	8117.5
12.5°	8579.9	8523.6	8483.4	8415.1	8362.8	8306.5	8262.3	8197.9	8141.7	8097.5	8053.3
15°	8543.8	8491.5	8443.2	8370.9	8318.6	8266.3	8214.2	8145.8	8093.5	8041.2	8009.1
17.5°	8463.4	8415.1	8358.8	8290.4	8242.3	8194.0	8137.7	8081.4	8021.0	7964.8	7924.5
20°	8358.8	8306.5	8258.3	8190.0	8149.8	8097.5	8045.2	7985.0	7936.6	7880.4	7836.2
22.5°	8202.1	8153.8	8109.6	8069.4	8005.0	7964.8	7928.7	7860.3	7812.0	7759.7	7711.6
25°	7976.8	7928.7	7892.4	7844.1	7816.0	7771.8	7735.6	7675.3	7631.1	7582.8	7542.6
27.5°	7607.0	7578.8	7558.6	7530.5	7506.5	7486.3	7466.3	7418.0	7385.9	7341.7	7301.5
30°	7052.1	7048.1	7036.0	7023.9	7040.0	7040.0	7040.0	7032.1	7003.9	6971.6	6943.5
32.5°	6340.5	6348.6	6364.6	6376.7	6408.8	6445.1	6477.2	6493.2	6493.2	6473.2	6461.1
35°	5492.2	5504.2	5528.4	5560.5	5600.7	5644.9	5717.2	5733.4	5745.4	5745.4	5729.3
37.5°	4611.6	4607.6	4631.8	4659.9	4684.1	4716.2	4768.5	4780.5	4800.6	4792.6	4776.4
40°	3755.2	3735.1	3727.0	3735.1	3763.3	3751.2	3763.3	3755.2	3755.2	3727.0	3727.0
42.5°	2963.1	2939.1	2922.9	2911.0	2911.0	2882.7	2862.7	2842.6	2830.6	2810.4	2806.4
45°	2283.8	2255.5	2235.5	2227.3	2215.4	2179.2	2155.0	2130.9	2102.7	2094.8	2098.8
47.5°	1773.1	1744.9	1736.8	1716.8	1696.6	1676.6	1660.5	1632.4	1628.3	1612.2	1628.3
50°	1367.0	1359.0	1346.9	1338.8	1326.7	1310.7	1294.6	1278.6	1270.5	1270.5	1274.4
52.5°	1061.5	1065.4	1053.4	1041.3	1033.3	1033.3	1013.1	1009.2	1009.2	993.1	1009.2
55°	812.2	808.1	812.2	804.1	804.1	792.0	792.0	780.0	780.0	767.9	776.0
57.5°	595.1	603.0	595.1	599.1	607.2	595.1	591.0	578.9	587.0	578.9	583.0
60°	462.4	462.4	462.4	458.4	458.4	454.3	454.3	450.3	450.3	442.2	450.3
62.5°	341.7	345.7	345.7	345.7	349.8	345.7	341.7	345.7	341.7	341.7	345.7
65°	225.2	229.2	229.2	225.2	233.2	225.2	229.2	233.2	237.1	233.2	237.1
67.5°	152.7	152.7	156.9	160.9	156.9	160.9	164.8	160.9	164.8	172.9	164.8
70°	112.5	116.7	116.7	112.5	108.6	112.5	108.6	120.6	120.6	120.6	128.6
72.5°	72.3	72.3	68.3	68.3	68.3	68.3	68.3	80.4	72.3	68.3	76.5
75°	40.2	44.2	44.2	32.1	36.2	44.2	32.1	36.2	48.3	40.2	48.3
77.5°	24.2	24.2	24.2	24.2	24.2	24.2	32.1	28.1	28.1	28.1	32.1
80°	20.0	16.1	16.1	12.1	16.1	16.1	16.1	24.2	20.0	20.0	24.2
82.5°	8.1	8.1	4.0	0.0	8.1	8.1	8.1	8.1	8.1	8.1	16.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	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: P248845

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2
2.5°	8226.1	8226.1	8222.1	8214.2	8197.9	8197.9	8194.0	8181.9	8173.9	8169.8	8169.8
5°	8185.9	8169.8	8153.8	8109.6	8109.6	8101.5	8077.5	8061.2	8053.3	8033.1	8025.2
7.5°	8149.8	8101.5	8073.3	8045.2	8009.1	7992.9	7964.8	7952.7	7924.5	7904.5	7892.4
10°	8061.2	8029.1	7992.9	7948.7	7920.6	7888.5	7856.2	7832.2	7796.0	7775.8	7759.7
12.5°	8001.0	7952.7	7920.6	7872.3	7824.1	7796.0	7751.8	7723.6	7687.4	7647.2	7623.0
15°	7944.7	7892.4	7848.3	7796.0	7743.7	7711.6	7659.3	7627.2	7574.9	7534.6	7506.5
17.5°	7860.3	7816.0	7767.8	7703.4	7655.3	7615.1	7558.6	7518.6	7470.3	7418.0	7389.8
20°	7771.8	7719.5	7671.3	7607.0	7558.6	7510.5	7454.2	7410.0	7353.6	7305.4	7273.3
22.5°	7655.3	7594.9	7554.7	7490.3	7434.0	7381.9	7329.6	7277.3	7225.0	7184.8	7148.6
25°	7486.3	7421.9	7377.8	7325.5	7273.3	7233.1	7168.7	7136.6	7084.3	7048.1	7011.9
27.5°	7245.0	7196.9	7156.7	7104.4	7060.2	7028.1	6979.8	6947.7	6903.3	6871.2	6843.1
30°	6891.4	6851.2	6814.9	6762.6	6730.5	6702.4	6658.0	6629.9	6597.8	6561.6	6553.6
32.5°	6416.9	6384.7	6348.6	6312.3	6288.2	6272.1	6235.9	6219.8	6187.7	6167.5	6147.5
35°	5701.2	5673.0	5653.0	5637.0	5628.9	5632.8	5624.9	5640.9	5648.9	5644.9	5648.9
37.5°	4764.5	4748.3	4756.4	4768.5	4808.7	4861.0	4909.1	4981.5	5029.8	5078.1	5122.3
40°	3719.1	3731.2	3763.3	3835.6	3940.2	4056.9	4165.4	4302.1	4438.8	4535.3	4623.7
42.5°	2806.4	2842.6	2922.9	3027.5	3184.4	3357.2	3526.1	3727.0	3892.0	4052.7	4165.4
45°	2110.8	2159.0	2263.6	2408.4	2581.2	2782.2	2995.4	3220.5	3417.6	3582.4	3707.0
47.5°	1644.5	1688.7	1793.3	1946.0	2159.0	2368.2	2589.3	2822.5	3027.5	3188.4	3296.9
50°	1298.6	1354.9	1447.4	1608.2	1821.4	2042.5	2271.7	2500.7	2693.9	2830.6	2927.0
52.5°	1021.2	1073.5	1161.9	1330.9	1548.0	1769.1	1982.1	2207.3	2376.1	2508.8	2573.2
55°	792.0	840.4	932.7	1073.5	1278.6	1495.7	1708.7	1901.8	2058.5	2155.0	2215.4
57.5°	603.0	639.3	703.7	844.3	1029.4	1230.3	1411.3	1604.3	1724.9	1793.3	1833.3
60°	458.4	486.5	554.9	663.5	832.3	1005.2	1157.9	1302.7	1399.2	1455.5	1495.7
62.5°	345.7	378.0	426.1	518.6	647.2	788.1	916.7	1025.2	1105.6	1141.9	1170.0
65°	237.1	261.3	297.6	369.9	478.4	578.9	679.5	759.9	812.2	852.4	868.5
67.5°	176.9	193.0	213.2	269.4	345.7	426.1	494.5	550.8	607.2	623.2	651.4
70°	132.7	144.8	164.8	205.0	249.2	305.5	361.9	394.0	434.2	462.4	470.5
72.5°	84.4	88.4	108.6	132.7	168.8	205.0	241.3	269.4	293.6	309.6	317.6
75°	48.3	72.3	72.3	96.5	120.6	136.7	160.9	180.9	193.0	205.0	205.0
77.5°	32.1	44.2	48.3	60.2	72.3	92.5	112.5	124.6	136.7	140.7	140.7
80°	28.1	32.1	32.1	44.2	52.3	68.3	80.4	84.4	92.5	96.5	104.6
82.5°	12.1	16.1	20.0	32.1	36.2	36.2	48.3	52.3	60.2	64.4	64.4
85°	4.0	8.1	8.1	12.1	20.0	24.2	28.1	32.1	36.2	36.2	40.2
87.5°	4.0	4.0	0.0	4.0	8.1	8.1	16.1	16.1	16.1	24.2	24.2
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: P248845

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2	8234.2
2.5°	8161.9	8165.8	8149.8	8145.8	8137.7	8141.7	8149.8
5°	8013.1	8017.1	8001.0	7985.0	7985.0	7980.8	7985.0
7.5°	7872.3	7876.4	7852.2	7844.1	7828.1	7832.2	7832.2
10°	7731.6	7731.6	7695.5	7691.4	7679.3	7675.3	7675.3
12.5°	7594.9	7582.8	7554.7	7538.6	7546.7	7522.6	7522.6
15°	7474.2	7454.2	7418.0	7405.9	7385.9	7377.8	7377.8
17.5°	7349.6	7333.6	7301.5	7277.3	7253.1	7249.2	7253.1
20°	7229.0	7212.9	7172.7	7156.7	7136.6	7136.6	7128.5
22.5°	7108.3	7092.3	7056.2	7044.1	7016.0	7016.0	7020.0
25°	6983.7	6971.6	6931.4	6923.5	6919.5	6903.3	6911.4
27.5°	6814.9	6806.8	6774.7	6762.6	6746.6	6742.6	6750.6
30°	6505.3	6493.2	6469.2	6457.1	6429.0	6433.0	6440.9
32.5°	6119.4	6103.3	6071.0	6059.0	6035.0	6026.9	6030.8
35°	5637.0	5624.9	5596.7	5596.7	5572.6	5564.5	5572.6
37.5°	5146.4	5158.4	5146.4	5158.4	5146.4	5142.3	5146.4
40°	4684.1	4728.2	4736.2	4780.5	4764.5	4788.5	4784.5
42.5°	4241.7	4314.0	4342.3	4378.4	4370.5	4386.5	4398.6
45°	3795.4	3855.8	3883.9	3908.1	3912.0	3920.2	3924.1
47.5°	3373.2	3421.5	3425.5	3453.6	3449.7	3449.7	3461.7
50°	2979.3	3011.4	3019.4	3039.6	3023.5	3015.4	3019.4
52.5°	2613.4	2645.5	2637.4	2645.5	2625.5	2617.4	2621.4
55°	2239.4	2255.5	2255.5	2255.5	2231.5	2231.5	2231.5
57.5°	1857.5	1861.6	1853.5	1857.5	1853.5	1829.3	1825.4
60°	1507.8	1507.8	1503.7	1507.8	1495.7	1483.6	1483.6
62.5°	1178.0	1186.1	1202.1	1186.1	1178.0	1186.1	1174.0
65°	880.6	896.6	892.5	900.6	896.6	896.6	888.5
67.5°	663.5	667.4	671.4	675.5	675.5	675.5	675.5
70°	486.5	498.6	494.5	494.5	494.5	494.5	518.6
72.5°	325.7	341.7	337.8	345.7	345.7	353.8	345.7
75°	221.1	237.1	229.2	241.3	237.1	229.2	249.2
77.5°	148.8	156.9	160.9	164.8	160.9	156.9	160.9
80°	104.6	112.5	108.6	112.5	112.5	112.5	116.7
82.5°	64.4	76.5	72.3	76.5	72.3	76.5	76.5
85°	44.2	48.3	40.2	48.3	44.2	44.2	52.3
87.5°	28.1	24.2	24.2	28.1	24.2	28.1	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)