

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: P248737

Luminaire Tested: **LD8B150D010 ER8B150950 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248737
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 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14856.0 lumens
Efficiency: N/A
Efficacy: 93.7 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

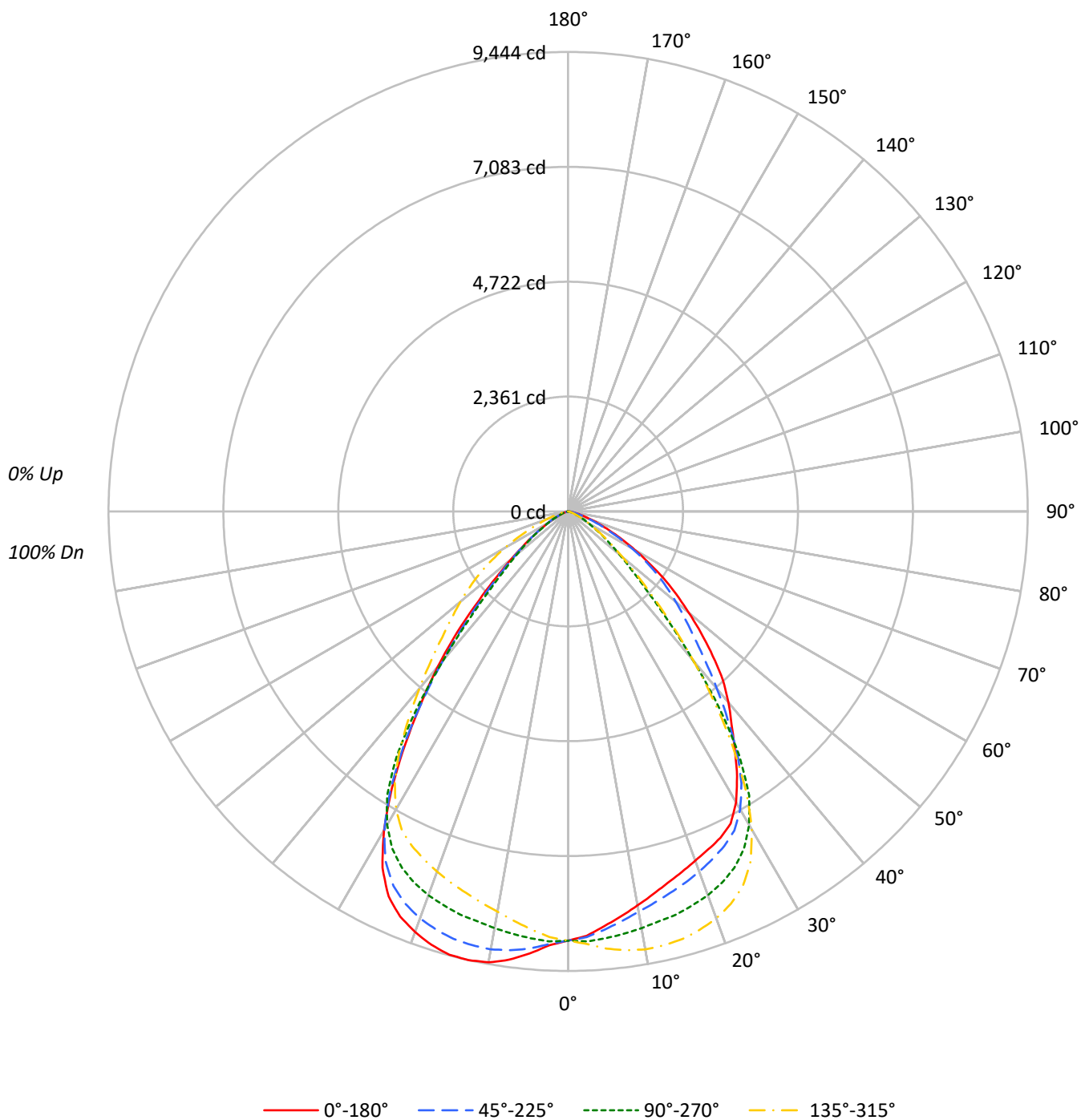
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	103	109	106	104	101		102	100	98		99	97	95		95	94	92
2	105	99	94	89	102	97	92	88		93	90	86		90	87	84		87	85	83
3	98	90	83	78	95	88	82	78		85	80	76		83	79	75		80	77	74
4	91	82	75	70	89	80	74	69		78	73	68		76	71	67		74	70	67
5	85	75	68	62	83	74	67	62		72	66	61		70	65	61		68	64	60
6	80	69	61	56	78	68	61	56		66	60	55		65	59	55		63	58	55
7	75	63	56	51	73	63	56	51		61	55	50		60	54	50		59	54	50
8	70	59	51	46	69	58	51	46		57	50	46		56	50	46		55	49	46
9	66	54	47	42	65	54	47	42		53	47	42		52	46	42		51	46	42
10	62	51	44	39	61	50	44	39		49	43	39		48	43	39		48	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	271961	271961	271961	271961
5°	264738	272600	282332	272600
10°	257413	272245	294627	272245
15°	252271	273861	301079	273861
20°	250555	275426	301852	275426
25°	251870	274874	297000	274874
30°	245644	264811	269571	264811
35°	224687	231007	219176	231007
40°	206285	160694	167807	160694
45°	183294	98033	113432	98033
50°	155144	65483	72722	65483
55°	128495	44687	47229	44687
60°	98004	29745	30010	29745
65°	69441	18533	16972	18533
70°	50084	12415	11270	12415
75°	31799	6172	5135	6172
80°	22197	4599	3800	4599
85°	19813	0	1521	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.5	5.7
10°-20°	2430.9	16.4
20°-30°	3680.9	24.8
30°-40°	3689.2	24.8
40°-50°	2316.6	15.6
50°-60°	1234.5	8.3
60°-70°	507.7	3.4
70°-80°	134.1	0.9
80°-90°	22.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6951.3	46.8
0°-40°	10640.4	71.6
0°-60°	14191.5	95.5
0°-90°	14856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14856.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8820	8820	8820	8820	8820	
5°	8553	8807	9121	8807	8553	807
15°	7902	8578	9431	8578	7902	2235
25°	7403	8079	8729	8079	7403	3395
35°	5969	6137	5822	6137	5969	3739
45°	4203	2248	2601	2248	4203	3232
55°	2390	831	878	831	2390	2131
65°	952	254	233	254	952	987
75°	267	52	43	52	267	302
85°	56	0	4	0	56	62
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°	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5
2.5°	8729.1	8720.5	8716.2	8724.9	8729.1	8746.3	8742.1	8750.6	8750.6	8755.0	8763.5
5°	8552.6	8548.2	8552.6	8552.6	8569.8	8587.0	8582.7	8595.7	8604.2	8625.8	8634.3
7.5°	8389.0	8389.0	8384.6	8401.7	8410.4	8436.3	8431.9	8453.5	8466.4	8487.9	8518.0
10°	8220.9	8220.9	8225.2	8238.1	8242.6	8281.2	8281.2	8311.3	8328.5	8350.2	8389.0
12.5°	8057.3	8057.3	8083.2	8074.5	8091.7	8121.9	8134.8	8164.9	8190.8	8233.9	8272.7
15°	7902.2	7902.2	7910.9	7932.4	7945.3	7984.1	8005.6	8040.1	8070.3	8113.3	8169.4
17.5°	7768.8	7764.5	7768.8	7794.6	7820.5	7854.9	7872.1	7915.2	7945.3	8001.3	8053.1
20°	7635.3	7644.0	7644.0	7665.4	7682.6	7725.7	7742.9	7790.4	7824.8	7876.4	7936.8
22.5°	7519.0	7514.8	7514.8	7544.9	7557.8	7596.5	7613.7	7656.7	7695.6	7738.6	7794.6
25°	7402.7	7394.0	7411.4	7415.7	7424.2	7467.3	7480.2	7510.3	7549.1	7588.0	7644.0
27.5°	7230.4	7221.9	7226.2	7243.4	7256.3	7290.7	7299.4	7329.5	7359.7	7394.0	7441.6
30°	6898.8	6890.3	6886.0	6916.2	6929.1	6954.8	6967.7	7019.5	7028.0	7066.8	7101.2
32.5°	6459.6	6455.3	6464.0	6489.7	6502.6	6537.2	6554.4	6584.5	6606.0	6627.6	6662.0
35°	5968.7	5960.0	5968.7	5994.6	5994.6	6024.7	6037.7	6050.4	6046.2	6050.4	6041.9
37.5°	5512.3	5507.9	5512.3	5525.1	5512.3	5525.1	5512.3	5486.4	5439.1	5387.3	5335.6
40°	5124.6	5128.9	5103.2	5120.4	5072.9	5064.4	5017.0	4952.3	4857.7	4754.4	4607.9
42.5°	4711.3	4698.3	4681.1	4689.7	4651.0	4620.7	4543.2	4461.5	4340.8	4168.7	3992.0
45°	4203.1	4198.8	4190.1	4185.9	4160.0	4129.9	4065.2	3970.5	3837.1	3660.5	3449.4
47.5°	3707.8	3694.9	3694.9	3699.2	3669.0	3664.8	3613.0	3531.3	3415.0	3242.7	3023.1
50°	3234.0	3229.8	3238.5	3255.7	3234.0	3225.5	3191.1	3135.1	3031.8	2885.4	2678.5
52.5°	2807.7	2803.5	2812.2	2833.6	2824.9	2833.6	2799.2	2756.1	2687.2	2545.0	2364.2
55°	2390.1	2390.1	2390.1	2415.8	2415.8	2415.8	2398.6	2372.9	2308.2	2204.9	2037.0
57.5°	1955.1	1959.4	1985.3	1989.5	1985.3	1993.9	1989.5	1963.6	1920.7	1847.5	1718.3
60°	1589.1	1589.1	1602.0	1615.0	1610.5	1615.0	1615.0	1602.0	1559.0	1498.7	1395.4
62.5°	1257.5	1270.4	1261.7	1270.4	1287.6	1270.4	1261.7	1253.2	1223.1	1184.2	1098.1
65°	951.7	960.4	960.4	964.6	955.9	960.4	943.2	930.2	913.0	870.0	814.0
67.5°	723.6	723.6	723.6	723.6	719.1	714.9	710.6	697.7	667.5	650.4	589.9
70°	555.5	529.6	529.6	529.6	529.6	534.1	521.1	503.9	495.3	465.1	422.0
72.5°	370.3	379.0	370.3	370.3	361.8	366.0	348.8	340.2	331.6	314.5	288.6
75°	266.9	245.5	254.0	258.4	245.5	254.0	236.8	219.6	219.6	206.7	193.7
77.5°	172.3	168.0	172.3	176.5	172.3	168.0	159.4	150.7	150.7	146.4	133.5
80°	125.0	120.5	120.5	120.5	116.3	120.5	112.0	112.0	103.3	99.1	90.4
82.5°	81.9	81.9	77.5	81.9	77.5	81.9	69.0	69.0	69.0	64.5	56.0
85°	56.0	47.3	47.3	51.8	43.1	51.8	47.3	43.1	38.8	38.8	34.4
87.5°	25.9	30.1	25.9	30.1	25.9	25.9	30.1	25.9	25.9	17.2	17.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5
2.5°	8776.5	8780.7	8780.7	8798.1	8806.6	8810.9	8810.9	8845.4	8832.5	8841.2	8849.7
5°	8651.7	8677.4	8686.1	8686.1	8733.4	8750.6	8767.8	8806.6	8810.9	8836.7	8866.9
7.5°	8531.0	8561.1	8578.5	8617.1	8647.2	8677.4	8729.1	8755.0	8780.7	8815.3	8853.9
10°	8414.7	8449.2	8483.6	8513.8	8561.1	8599.9	8634.3	8694.6	8724.9	8772.2	8823.8
12.5°	8302.8	8350.2	8380.3	8431.9	8483.6	8518.0	8569.8	8625.8	8673.1	8720.5	8780.7
15°	8203.8	8259.8	8294.2	8350.2	8406.2	8453.5	8509.5	8578.5	8612.9	8668.9	8724.9
17.5°	8096.0	8156.4	8199.5	8251.1	8320.0	8371.6	8419.1	8487.9	8531.0	8591.2	8655.9
20°	7984.1	8044.4	8096.0	8147.7	8216.7	8268.3	8324.3	8393.2	8440.6	8500.8	8552.6
22.5°	7850.7	7906.7	7962.5	8022.8	8091.7	8134.8	8199.5	8259.8	8311.3	8367.4	8419.1
25°	7678.4	7747.3	7790.4	7846.2	7902.2	7949.6	8018.5	8078.8	8121.9	8173.6	8220.9
27.5°	7475.9	7527.7	7562.1	7609.4	7665.4	7708.5	7760.1	7820.5	7863.6	7910.9	7945.3
30°	7131.4	7178.9	7209.0	7243.4	7299.4	7338.2	7381.3	7437.1	7467.3	7501.8	7532.0
32.5°	6679.2	6718.0	6735.2	6761.1	6799.9	6838.5	6873.1	6920.4	6933.4	6954.8	6954.8
35°	6024.7	6033.3	6029.0	6037.7	6054.9	6076.3	6106.5	6136.6	6153.8	6153.8	6141.0
37.5°	5258.1	5206.5	5150.5	5107.4	5094.5	5085.8	5103.2	5116.0	5133.3	5141.8	5120.4
40°	4461.5	4345.2	4220.3	4108.3	4030.8	3996.4	3983.5	3992.0	3992.0	4022.1	4022.1
42.5°	3776.8	3595.8	3410.8	3242.7	3130.7	3044.7	3005.9	3005.9	3010.2	3031.8	3044.7
45°	3208.3	2980.0	2764.7	2579.6	2424.5	2312.5	2260.9	2248.0	2243.7	2252.2	2282.3
47.5°	2773.3	2536.5	2312.5	2084.4	1920.7	1808.7	1761.4	1744.0	1726.8	1744.0	1748.5
50°	2433.2	2187.7	1950.9	1722.6	1550.3	1451.2	1390.9	1365.0	1360.8	1360.8	1369.5
52.5°	2123.0	1894.9	1658.1	1425.5	1244.5	1149.9	1093.8	1080.9	1063.7	1080.9	1080.9
55°	1830.2	1602.0	1369.5	1149.9	999.0	900.1	848.3	831.2	822.5	835.4	835.4
57.5°	1511.6	1317.7	1102.5	904.4	753.7	684.7	645.9	624.5	620.0	628.7	620.0
60°	1240.3	1076.7	891.4	710.6	594.3	521.1	491.0	482.3	473.6	482.3	482.3
62.5°	981.8	844.1	693.2	555.5	456.4	404.9	370.3	370.3	366.0	366.0	370.3
65°	727.8	620.0	512.4	396.2	318.7	279.9	254.0	254.0	249.8	254.0	249.8
67.5°	529.6	456.4	370.3	288.6	228.3	206.7	189.5	176.5	185.2	176.5	172.3
70°	387.7	327.2	266.9	219.6	176.5	155.1	142.2	137.7	129.2	129.2	129.2
72.5°	258.4	219.6	180.8	142.2	116.3	94.7	90.4	81.9	73.2	77.5	86.1
75°	172.3	146.4	129.2	103.3	77.5	77.5	51.8	51.8	43.1	51.8	38.8
77.5°	120.5	99.1	77.5	64.5	51.8	47.3	34.4	34.4	30.1	30.1	30.1
80°	86.1	73.2	56.0	47.3	34.4	34.4	30.1	25.9	21.4	21.4	25.9
82.5°	51.8	38.8	38.8	34.4	21.4	17.2	12.9	17.2	8.7	8.7	8.7
85°	30.1	25.9	21.4	12.9	8.7	8.7	4.3	0.0	4.3	4.3	0.0
87.5°	17.2	8.7	8.7	4.3	0.0	4.3	4.3	0.0	0.0	0.0	8.7
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°	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5
2.5°	8871.3	8866.9	8875.5	8875.5	8901.4	8897.0	8909.9	8909.9	8901.4	8905.7	8922.9
5°	8901.4	8914.4	8940.1	8961.7	9000.3	9017.7	9039.2	9060.8	9065.0	9078.0	9090.9
7.5°	8901.4	8944.5	8974.6	9013.3	9065.0	9095.2	9142.5	9181.3	9198.5	9220.0	9245.8
10°	8884.1	8927.1	8983.1	9026.2	9090.9	9138.2	9185.6	9245.8	9271.7	9306.1	9340.7
12.5°	8849.7	8897.0	8957.3	9013.3	9086.5	9129.6	9189.8	9245.8	9284.7	9332.0	9370.8
15°	8798.1	8853.9	8909.9	8965.9	9043.4	9095.2	9151.2	9215.7	9254.5	9306.1	9340.7
17.5°	8716.2	8776.5	8828.2	8879.8	8953.0	9013.3	9065.0	9125.3	9164.1	9207.2	9254.5
20°	8617.1	8673.1	8729.1	8772.2	8845.4	8897.0	8953.0	9009.0	9039.2	9047.8	9121.0
22.5°	8492.3	8531.0	8574.0	8643.0	8686.1	8733.4	8785.1	8836.7	8866.9	8914.4	8940.1
25°	8285.5	8324.3	8371.6	8401.7	8453.5	8492.3	8543.9	8599.9	8617.1	8651.7	8677.4
27.5°	7997.1	8018.5	8040.1	8065.8	8096.0	8117.6	8147.7	8173.6	8190.8	8208.0	8225.2
30°	7540.5	7540.5	7540.5	7523.3	7536.2	7549.1	7553.4	7549.1	7549.1	7544.9	7544.9
32.5°	6937.6	6903.2	6864.4	6830.0	6817.1	6799.9	6791.2	6778.3	6756.8	6743.9	6748.1
35°	6123.7	6046.2	5998.9	5955.8	5921.4	5895.5	5882.6	5869.6	5865.4	5848.2	5830.8
37.5°	5107.4	5051.4	5017.0	4991.2	4961.0	4935.2	4939.4	4943.8	4956.6	4948.1	4952.3
40°	4030.8	4017.9	4030.8	4000.7	3992.0	4000.7	4022.1	4052.4	4069.6	4086.8	4116.9
42.5°	3066.2	3087.6	3117.9	3117.9	3130.7	3148.1	3173.8	3221.3	3247.0	3277.1	3311.7
45°	2308.2	2334.1	2372.9	2385.7	2394.4	2415.8	2446.1	2484.8	2502.0	2527.8	2558.0
47.5°	1778.6	1795.8	1817.2	1838.9	1860.3	1869.0	1899.1	1899.1	1920.7	1937.9	1946.4
50°	1386.7	1403.9	1421.1	1434.0	1442.7	1455.6	1464.1	1477.1	1481.3	1490.0	1494.3
52.5°	1085.2	1106.8	1106.8	1115.3	1128.2	1141.2	1136.9	1141.2	1145.4	1145.4	1158.4
55°	848.3	848.3	861.3	861.3	870.0	865.5	870.0	870.0	870.0	870.0	874.2
57.5°	633.0	637.4	650.4	641.7	637.4	645.9	637.4	645.9	641.7	650.4	637.4
60°	486.6	486.6	491.0	491.0	495.3	495.3	495.3	491.0	491.0	486.6	486.6
62.5°	366.0	370.3	374.7	370.3	370.3	370.3	366.0	366.0	361.8	357.3	357.3
65°	245.5	241.2	249.8	241.2	245.5	245.5	241.2	245.5	232.6	236.8	232.6
67.5°	176.5	172.3	168.0	172.3	168.0	163.6	163.6	168.0	172.3	159.4	159.4
70°	116.3	120.5	116.3	120.5	125.0	125.0	120.5	116.3	120.5	112.0	116.3
72.5°	73.2	73.2	73.2	73.2	73.2	77.5	77.5	77.5	69.0	69.0	64.5
75°	34.4	47.3	38.8	34.4	47.3	47.3	43.1	43.1	38.8	38.8	38.8
77.5°	34.4	25.9	25.9	25.9	25.9	25.9	25.9	25.9	21.4	25.9	21.4
80°	17.2	17.2	17.2	12.9	17.2	17.2	21.4	17.2	17.2	12.9	21.4
82.5°	8.7	8.7	8.7	0.0	4.3	8.7	8.7	4.3	8.7	8.7	4.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248737

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5
2.5°	8918.6	8914.4	8918.6	8922.9	8918.6	8914.4	8918.6	8922.9	8905.7	8901.4	8909.9
5°	9108.1	9108.1	9116.6	9121.0	9116.6	9108.1	9108.1	9090.9	9078.0	9065.0	9060.8
7.5°	9271.7	9280.4	9288.9	9293.2	9288.9	9280.4	9271.7	9245.8	9220.0	9198.5	9181.3
10°	9370.8	9383.7	9400.9	9409.4	9400.9	9383.7	9370.8	9340.7	9306.1	9271.7	9245.8
12.5°	9413.9	9426.8	9448.3	9444.0	9448.3	9426.8	9413.9	9370.8	9332.0	9284.7	9245.8
15°	9383.7	9400.9	9422.4	9431.1	9422.4	9400.9	9383.7	9340.7	9306.1	9254.5	9215.7
17.5°	9288.9	9314.8	9327.7	9340.7	9327.7	9314.8	9288.9	9254.5	9207.2	9164.1	9125.3
20°	9159.7	9177.1	9194.3	9198.5	9194.3	9177.1	9159.7	9121.0	9047.8	9039.2	9009.0
22.5°	8974.6	8987.6	9026.2	9013.3	9026.2	8987.6	8974.6	8940.1	8914.4	8866.9	8836.7
25°	8707.5	8720.5	8724.9	8729.1	8724.9	8720.5	8707.5	8677.4	8651.7	8617.1	8599.9
27.5°	8246.8	8246.8	8255.3	8259.8	8255.3	8246.8	8246.8	8225.2	8208.0	8190.8	8173.6
30°	7549.1	7549.1	7549.1	7570.8	7549.1	7549.1	7549.1	7544.9	7544.9	7549.1	7549.1
32.5°	6743.9	6735.2	6726.7	6735.2	6726.7	6735.2	6743.9	6748.1	6743.9	6756.8	6778.3
35°	5830.8	5826.6	5839.5	5822.3	5839.5	5826.6	5830.8	5830.8	5848.2	5865.4	5869.6
37.5°	4956.6	4948.1	4965.3	4948.1	4965.3	4948.1	4956.6	4952.3	4948.1	4956.6	4943.8
40°	4125.6	4134.1	4134.1	4168.7	4134.1	4134.1	4125.6	4116.9	4086.8	4069.6	4052.4
42.5°	3328.9	3354.7	3346.1	3371.9	3346.1	3354.7	3328.9	3311.7	3277.1	3247.0	3221.3
45°	2575.2	2592.5	2592.5	2601.1	2592.5	2592.5	2575.2	2558.0	2527.8	2502.0	2484.8
47.5°	1976.6	1976.6	1976.6	1981.0	1976.6	1976.6	1976.6	1946.4	1937.9	1920.7	1899.1
50°	1503.0	1507.2	1511.6	1515.9	1511.6	1507.2	1503.0	1494.3	1490.0	1481.3	1477.1
52.5°	1154.1	1158.4	1149.9	1158.4	1149.9	1158.4	1154.1	1158.4	1145.4	1145.4	1141.2
55°	874.2	870.0	874.2	878.5	874.2	870.0	874.2	874.2	870.0	870.0	870.0
57.5°	641.7	633.0	633.0	633.0	633.0	633.0	641.7	637.4	650.4	641.7	645.9
60°	478.1	482.3	482.3	486.6	482.3	482.3	478.1	486.6	486.6	491.0	491.0
62.5°	353.1	366.0	357.3	366.0	357.3	366.0	353.1	357.3	357.3	361.8	366.0
65°	228.3	228.3	228.3	232.6	228.3	228.3	228.3	232.6	236.8	232.6	245.5
67.5°	155.1	159.4	168.0	163.6	168.0	159.4	155.1	159.4	159.4	172.3	168.0
70°	125.0	112.0	112.0	125.0	112.0	112.0	125.0	116.3	112.0	120.5	116.3
72.5°	73.2	64.5	73.2	73.2	73.2	64.5	73.2	64.5	69.0	69.0	77.5
75°	38.8	34.4	30.1	43.1	30.1	34.4	38.8	38.8	38.8	38.8	43.1
77.5°	25.9	21.4	30.1	30.1	30.1	21.4	25.9	21.4	25.9	21.4	25.9
80°	12.9	17.2	12.9	21.4	12.9	17.2	12.9	21.4	12.9	17.2	17.2
82.5°	4.3	8.7	8.7	8.7	8.7	8.7	4.3	4.3	8.7	8.7	4.3
85°	0.0	8.7	4.3	4.3	4.3	8.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	0.0	4.3	0.0	0.0	4.3	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248737

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5
2.5°	8909.9	8897.0	8901.4	8875.5	8875.5	8866.9	8871.3	8849.7	8841.2	8832.5	8845.4
5°	9039.2	9017.7	9000.3	8961.7	8940.1	8914.4	8901.4	8866.9	8836.7	8810.9	8806.6
7.5°	9142.5	9095.2	9065.0	9013.3	8974.6	8944.5	8901.4	8853.9	8815.3	8780.7	8755.0
10°	9185.6	9138.2	9090.9	9026.2	8983.1	8927.1	8884.1	8823.8	8772.2	8724.9	8694.6
12.5°	9189.8	9129.6	9086.5	9013.3	8957.3	8897.0	8849.7	8780.7	8720.5	8673.1	8625.8
15°	9151.2	9095.2	9043.4	8965.9	8909.9	8853.9	8798.1	8724.9	8668.9	8612.9	8578.5
17.5°	9065.0	9013.3	8953.0	8879.8	8828.2	8776.5	8716.2	8655.9	8591.2	8531.0	8487.9
20°	8953.0	8897.0	8845.4	8772.2	8729.1	8673.1	8617.1	8552.6	8500.8	8440.6	8393.2
22.5°	8785.1	8733.4	8686.1	8643.0	8574.0	8531.0	8492.3	8419.1	8367.4	8311.3	8259.8
25°	8543.9	8492.3	8453.5	8401.7	8371.6	8324.3	8285.5	8220.9	8173.6	8121.9	8078.8
27.5°	8147.7	8117.6	8096.0	8065.8	8040.1	8018.5	7997.1	7945.3	7910.9	7863.6	7820.5
30°	7553.4	7549.1	7536.2	7523.3	7540.5	7540.5	7540.5	7532.0	7501.8	7467.3	7437.1
32.5°	6791.2	6799.9	6817.1	6830.0	6864.4	6903.2	6937.6	6954.8	6954.8	6933.4	6920.4
35°	5882.6	5895.5	5921.4	5955.8	5998.9	6046.2	6123.7	6141.0	6153.8	6153.8	6136.6
37.5°	4939.4	4935.2	4961.0	4991.2	5017.0	5051.4	5107.4	5120.4	5141.8	5133.3	5116.0
40°	4022.1	4000.7	3992.0	4000.7	4030.8	4017.9	4030.8	4022.1	4022.1	3992.0	3992.0
42.5°	3173.8	3148.1	3130.7	3117.9	3117.9	3087.6	3066.2	3044.7	3031.8	3010.2	3005.9
45°	2446.1	2415.8	2394.4	2385.7	2372.9	2334.1	2308.2	2282.3	2252.2	2243.7	2248.0
47.5°	1899.1	1869.0	1860.3	1838.9	1817.2	1795.8	1778.6	1748.5	1744.0	1726.8	1744.0
50°	1464.1	1455.6	1442.7	1434.0	1421.1	1403.9	1386.7	1369.5	1360.8	1360.8	1365.0
52.5°	1136.9	1141.2	1128.2	1115.3	1106.8	1106.8	1085.2	1080.9	1080.9	1063.7	1080.9
55°	870.0	865.5	870.0	861.3	861.3	848.3	848.3	835.4	835.4	822.5	831.2
57.5°	637.4	645.9	637.4	641.7	650.4	637.4	633.0	620.0	628.7	620.0	624.5
60°	495.3	495.3	495.3	491.0	491.0	486.6	486.6	482.3	482.3	473.6	482.3
62.5°	366.0	370.3	370.3	370.3	374.7	370.3	366.0	370.3	366.0	366.0	370.3
65°	241.2	245.5	245.5	241.2	249.8	241.2	245.5	249.8	254.0	249.8	254.0
67.5°	163.6	163.6	168.0	172.3	168.0	172.3	176.5	172.3	176.5	185.2	176.5
70°	120.5	125.0	125.0	120.5	116.3	120.5	116.3	129.2	129.2	129.2	137.7
72.5°	77.5	77.5	73.2	73.2	73.2	73.2	73.2	86.1	77.5	73.2	81.9
75°	43.1	47.3	47.3	34.4	38.8	47.3	34.4	38.8	51.8	43.1	51.8
77.5°	25.9	25.9	25.9	25.9	25.9	25.9	34.4	30.1	30.1	30.1	34.4
80°	21.4	17.2	17.2	12.9	17.2	17.2	17.2	25.9	21.4	21.4	25.9
82.5°	8.7	8.7	4.3	0.0	8.7	8.7	8.7	8.7	8.7	8.7	17.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	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: P248737

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5
2.5°	8810.9	8810.9	8806.6	8798.1	8780.7	8780.7	8776.5	8763.5	8755.0	8750.6	8750.6
5°	8767.8	8750.6	8733.4	8686.1	8686.1	8677.4	8651.7	8634.3	8625.8	8604.2	8595.7
7.5°	8729.1	8677.4	8647.2	8617.1	8578.5	8561.1	8531.0	8518.0	8487.9	8466.4	8453.5
10°	8634.3	8599.9	8561.1	8513.8	8483.6	8449.2	8414.7	8389.0	8350.2	8328.5	8311.3
12.5°	8569.8	8518.0	8483.6	8431.9	8380.3	8350.2	8302.8	8272.7	8233.9	8190.8	8164.9
15°	8509.5	8453.5	8406.2	8350.2	8294.2	8259.8	8203.8	8169.4	8113.3	8070.3	8040.1
17.5°	8419.1	8371.6	8320.0	8251.1	8199.5	8156.4	8096.0	8053.1	8001.3	7945.3	7915.2
20°	8324.3	8268.3	8216.7	8147.7	8096.0	8044.4	7984.1	7936.8	7876.4	7824.8	7790.4
22.5°	8199.5	8134.8	8091.7	8022.8	7962.5	7906.7	7850.7	7794.6	7738.6	7695.6	7656.7
25°	8018.5	7949.6	7902.2	7846.2	7790.4	7747.3	7678.4	7644.0	7588.0	7549.1	7510.3
27.5°	7760.1	7708.5	7665.4	7609.4	7562.1	7527.7	7475.9	7441.6	7394.0	7359.7	7329.5
30°	7381.3	7338.2	7299.4	7243.4	7209.0	7178.9	7131.4	7101.2	7066.8	7028.0	7019.5
32.5°	6873.1	6838.5	6799.9	6761.1	6735.2	6718.0	6679.2	6662.0	6627.6	6606.0	6584.5
35°	6106.5	6076.3	6054.9	6037.7	6029.0	6033.3	6024.7	6041.9	6050.4	6046.2	6050.4
37.5°	5103.2	5085.8	5094.5	5107.4	5150.5	5206.5	5258.1	5335.6	5387.3	5439.1	5486.4
40°	3983.5	3996.4	4030.8	4108.3	4220.3	4345.2	4461.5	4607.9	4754.4	4857.7	4952.3
42.5°	3005.9	3044.7	3130.7	3242.7	3410.8	3595.8	3776.8	3992.0	4168.7	4340.8	4461.5
45°	2260.9	2312.5	2424.5	2579.6	2764.7	2980.0	3208.3	3449.4	3660.5	3837.1	3970.5
47.5°	1761.4	1808.7	1920.7	2084.4	2312.5	2536.5	2773.3	3023.1	3242.7	3415.0	3531.3
50°	1390.9	1451.2	1550.3	1722.6	1950.9	2187.7	2433.2	2678.5	2885.4	3031.8	3135.1
52.5°	1093.8	1149.9	1244.5	1425.5	1658.1	1894.9	2123.0	2364.2	2545.0	2687.2	2756.1
55°	848.3	900.1	999.0	1149.9	1369.5	1602.0	1830.2	2037.0	2204.9	2308.2	2372.9
57.5°	645.9	684.7	753.7	904.4	1102.5	1317.7	1511.6	1718.3	1847.5	1920.7	1963.6
60°	491.0	521.1	594.3	710.6	891.4	1076.7	1240.3	1395.4	1498.7	1559.0	1602.0
62.5°	370.3	404.9	456.4	555.5	693.2	844.1	981.8	1098.1	1184.2	1223.1	1253.2
65°	254.0	279.9	318.7	396.2	512.4	620.0	727.8	814.0	870.0	913.0	930.2
67.5°	189.5	206.7	228.3	288.6	370.3	456.4	529.6	589.9	650.4	667.5	697.7
70°	142.2	155.1	176.5	219.6	266.9	327.2	387.7	422.0	465.1	495.3	503.9
72.5°	90.4	94.7	116.3	142.2	180.8	219.6	258.4	288.6	314.5	331.6	340.2
75°	51.8	77.5	77.5	103.3	129.2	146.4	172.3	193.7	206.7	219.6	219.6
77.5°	34.4	47.3	51.8	64.5	77.5	99.1	120.5	133.5	146.4	150.7	150.7
80°	30.1	34.4	34.4	47.3	56.0	73.2	86.1	90.4	99.1	103.3	112.0
82.5°	12.9	17.2	21.4	34.4	38.8	38.8	51.8	56.0	64.5	69.0	69.0
85°	4.3	8.7	8.7	12.9	21.4	25.9	30.1	34.4	38.8	38.8	43.1
87.5°	4.3	4.3	0.0	4.3	8.7	8.7	17.2	17.2	17.2	25.9	25.9
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: P248737

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5	8819.5
2.5°	8742.1	8746.3	8729.1	8724.9	8716.2	8720.5	8729.1
5°	8582.7	8587.0	8569.8	8552.6	8552.6	8548.2	8552.6
7.5°	8431.9	8436.3	8410.4	8401.7	8384.6	8389.0	8389.0
10°	8281.2	8281.2	8242.6	8238.1	8225.2	8220.9	8220.9
12.5°	8134.8	8121.9	8091.7	8074.5	8083.2	8057.3	8057.3
15°	8005.6	7984.1	7945.3	7932.4	7910.9	7902.2	7902.2
17.5°	7872.1	7854.9	7820.5	7794.6	7768.8	7764.5	7768.8
20°	7742.9	7725.7	7682.6	7665.4	7644.0	7644.0	7635.3
22.5°	7613.7	7596.5	7557.8	7544.9	7514.8	7514.8	7519.0
25°	7480.2	7467.3	7424.2	7415.7	7411.4	7394.0	7402.7
27.5°	7299.4	7290.7	7256.3	7243.4	7226.2	7221.9	7230.4
30°	6967.7	6954.8	6929.1	6916.2	6886.0	6890.3	6898.8
32.5°	6554.4	6537.2	6502.6	6489.7	6464.0	6455.3	6459.6
35°	6037.7	6024.7	5994.6	5994.6	5968.7	5960.0	5968.7
37.5°	5512.3	5525.1	5512.3	5525.1	5512.3	5507.9	5512.3
40°	5017.0	5064.4	5072.9	5120.4	5103.2	5128.9	5124.6
42.5°	4543.2	4620.7	4651.0	4689.7	4681.1	4698.3	4711.3
45°	4065.2	4129.9	4160.0	4185.9	4190.1	4198.8	4203.1
47.5°	3613.0	3664.8	3669.0	3699.2	3694.9	3694.9	3707.8
50°	3191.1	3225.5	3234.0	3255.7	3238.5	3229.8	3234.0
52.5°	2799.2	2833.6	2824.9	2833.6	2812.2	2803.5	2807.7
55°	2398.6	2415.8	2415.8	2415.8	2390.1	2390.1	2390.1
57.5°	1989.5	1993.9	1985.3	1989.5	1985.3	1959.4	1955.1
60°	1615.0	1615.0	1610.5	1615.0	1602.0	1589.1	1589.1
62.5°	1261.7	1270.4	1287.6	1270.4	1261.7	1270.4	1257.5
65°	943.2	960.4	955.9	964.6	960.4	960.4	951.7
67.5°	710.6	714.9	719.1	723.6	723.6	723.6	723.6
70°	521.1	534.1	529.6	529.6	529.6	529.6	555.5
72.5°	348.8	366.0	361.8	370.3	370.3	379.0	370.3
75°	236.8	254.0	245.5	258.4	254.0	245.5	266.9
77.5°	159.4	168.0	172.3	176.5	172.3	168.0	172.3
80°	112.0	120.5	116.3	120.5	120.5	120.5	125.0
82.5°	69.0	81.9	77.5	81.9	77.5	81.9	81.9
85°	47.3	51.8	43.1	51.8	47.3	47.3	56.0
87.5°	30.1	25.9	25.9	30.1	25.9	30.1	25.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)