

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: P249061

Luminaire Tested: **LD8B150D010 ER8B150950 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249061
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14829.0 lumens
Efficiency: N/A
Efficacy: 93.6 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

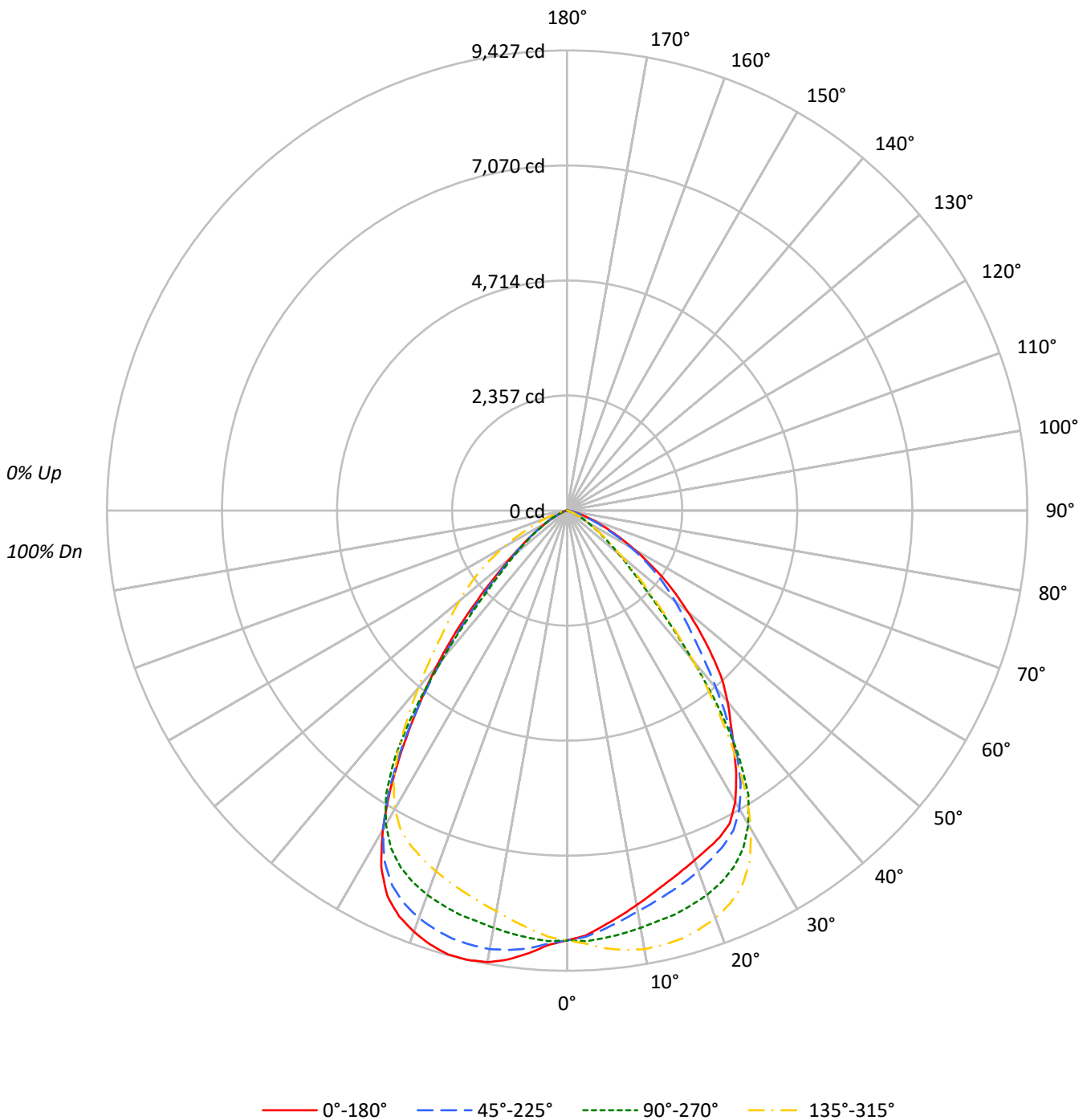
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	271467	271467	271467	271467
5°	264255	272105	281822	272105
10°	256946	271751	294092	271751
15°	251814	273363	300530	273363
20°	250099	274927	301304	274927
25°	251414	274374	296462	274374
30°	245198	264330	269080	264330
35°	224280	230586	218777	230586
40°	205911	160400	167501	160400
45°	182958	97855	113222	97855
50°	154866	65368	72588	65368
55°	128264	44601	47143	44601
60°	97825	29689	29954	29689
65°	69317	18497	16935	18497
70°	49993	12397	11243	12397
75°	31751	6160	5123	6160
80°	22144	4582	3800	4582
85°	19778	0	1486	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.9	5.7
10°-20°	2426.5	16.4
20°-30°	3674.2	24.8
30°-40°	3682.5	24.8
40°-50°	2312.4	15.6
50°-60°	1232.3	8.3
60°-70°	506.7	3.4
70°-80°	133.9	0.9
80°-90°	22.6	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°	6938.6	46.8
0°-40°	10621.1	71.6
0°-60°	14165.8	95.5
0°-90°	14829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14829.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8804	8804	8804	8804	8804	
5°	8537	8791	9104	8791	8537	805
15°	7888	8563	9414	8563	7888	2231
25°	7389	8064	8713	8064	7389	3389
35°	5958	6125	5812	6125	5958	3733
45°	4195	2244	2596	2244	4195	3227
55°	2386	830	877	830	2386	2127
65°	950	254	232	254	950	985
75°	266	52	43	52	266	302
85°	56	0	4	0	56	61
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°	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5
2.5°	8713.3	8704.6	8700.4	8709.0	8713.3	8730.4	8726.2	8734.7	8734.7	8739.1	8747.6
5°	8537.0	8532.6	8537.0	8537.0	8554.2	8571.4	8567.1	8580.0	8588.5	8610.1	8618.6
7.5°	8373.7	8373.7	8369.3	8386.5	8395.1	8421.0	8416.6	8438.1	8451.1	8472.5	8502.5
10°	8206.0	8206.0	8210.2	8223.2	8227.6	8266.2	8266.2	8296.2	8313.4	8335.0	8373.7
12.5°	8042.7	8042.7	8068.5	8059.9	8077.0	8107.1	8120.0	8150.1	8175.9	8218.9	8257.7
15°	7887.9	7887.9	7896.5	7918.0	7930.9	7969.6	7991.0	8025.5	8055.6	8098.6	8154.5
17.5°	7754.6	7750.4	7754.6	7780.5	7806.3	7840.6	7857.8	7900.8	7930.9	7986.8	8038.4
20°	7621.4	7630.1	7630.1	7651.5	7668.7	7711.7	7728.8	7776.2	7810.6	7862.0	7922.4
22.5°	7505.3	7501.1	7501.1	7531.2	7544.1	7582.7	7599.8	7642.8	7681.6	7724.6	7780.5
25°	7389.3	7380.6	7397.9	7402.2	7410.7	7453.7	7466.6	7496.7	7535.4	7574.2	7630.1
27.5°	7217.3	7208.8	7213.1	7230.2	7243.1	7277.5	7286.1	7316.2	7346.3	7380.6	7428.0
30°	6886.3	6877.8	6873.5	6903.6	6916.5	6942.2	6955.1	7006.7	7015.2	7054.0	7088.3
32.5°	6447.8	6443.6	6452.2	6477.9	6490.8	6525.3	6542.5	6572.6	6594.0	6615.5	6649.9
35°	5957.9	5949.2	5957.9	5983.7	5983.7	6013.8	6026.7	6039.5	6035.2	6039.5	6031.0
37.5°	5502.3	5497.9	5502.3	5515.0	5502.3	5515.0	5502.3	5476.4	5429.2	5377.5	5325.9
40°	5115.3	5119.6	5093.9	5111.1	5063.7	5055.2	5007.9	4943.3	4848.9	4745.7	4599.6
42.5°	4702.7	4689.8	4672.6	4681.1	4642.6	4612.3	4535.0	4453.4	4332.9	4161.1	3984.7
45°	4195.4	4191.2	4182.5	4178.3	4152.5	4122.4	4057.8	3963.3	3830.1	3653.9	3443.1
47.5°	3701.1	3688.2	3688.2	3692.4	3662.3	3658.1	3606.4	3524.9	3408.8	3236.8	3017.6
50°	3228.2	3223.9	3232.6	3249.7	3228.2	3219.7	3185.3	3129.4	3026.3	2880.1	2673.6
52.5°	2802.6	2798.4	2807.1	2828.5	2819.8	2828.5	2794.1	2751.1	2682.3	2540.4	2359.9
55°	2385.8	2385.8	2385.8	2411.4	2411.4	2411.4	2394.3	2368.6	2304.0	2200.9	2033.3
57.5°	1951.6	1955.8	1981.7	1985.9	1981.7	1990.3	1985.9	1960.1	1917.3	1844.2	1715.2
60°	1586.2	1586.2	1599.1	1612.0	1607.6	1612.0	1612.0	1599.1	1556.1	1496.0	1392.8
62.5°	1255.2	1268.1	1259.4	1268.1	1285.2	1268.1	1259.4	1250.9	1220.8	1182.1	1096.1
65°	950.0	958.6	958.6	962.9	954.2	958.6	941.5	928.5	911.4	868.4	812.5
67.5°	722.2	722.2	722.2	722.2	717.8	713.6	709.3	696.4	666.3	649.2	588.8
70°	554.5	528.7	528.7	528.7	528.7	533.1	520.2	503.0	494.4	464.3	421.3
72.5°	369.6	378.3	369.6	369.6	361.1	365.4	348.2	339.5	331.0	313.9	288.0
75°	266.5	245.1	253.5	258.0	245.1	253.5	236.4	219.2	219.2	206.3	193.4
77.5°	172.0	167.7	172.0	176.2	172.0	167.7	159.1	150.4	150.4	146.1	133.2
80°	124.7	120.3	120.3	120.3	116.1	120.3	111.8	111.8	103.2	98.9	90.2
82.5°	81.7	81.7	77.3	81.7	77.3	81.7	68.8	68.8	68.8	64.4	55.9
85°	55.9	47.2	47.2	51.7	43.0	51.7	47.2	43.0	38.7	38.7	34.3
87.5°	25.8	30.1	25.8	30.1	25.8	25.8	30.1	25.8	25.8	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



TEST NUMBER: P249061

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5
2.5°	8760.5	8764.8	8764.8	8782.1	8790.6	8794.8	8794.8	8829.3	8816.4	8825.1	8833.6
5°	8636.0	8661.6	8670.3	8670.3	8717.5	8734.7	8751.8	8790.6	8794.8	8820.7	8850.7
7.5°	8515.5	8545.5	8562.9	8601.4	8631.5	8661.6	8713.3	8739.1	8764.8	8799.3	8837.8
10°	8399.4	8433.9	8468.2	8498.3	8545.5	8584.3	8618.6	8678.8	8709.0	8756.3	8807.8
12.5°	8287.7	8335.0	8365.1	8416.6	8468.2	8502.5	8554.2	8610.1	8657.4	8704.6	8764.8
15°	8188.8	8244.8	8279.1	8335.0	8390.9	8438.1	8494.1	8562.9	8597.2	8653.1	8709.0
17.5°	8081.3	8141.6	8184.6	8236.1	8304.9	8356.4	8403.8	8472.5	8515.5	8575.6	8640.2
20°	7969.6	8029.8	8081.3	8132.9	8201.8	8253.2	8309.2	8378.0	8425.2	8485.4	8537.0
22.5°	7836.4	7892.3	7948.0	8008.2	8077.0	8120.0	8184.6	8244.8	8296.2	8352.2	8403.8
25°	7664.4	7733.2	7776.2	7832.0	7887.9	7935.1	8003.9	8064.1	8107.1	8158.8	8206.0
27.5°	7462.4	7514.0	7548.3	7595.6	7651.5	7694.5	7746.0	7806.3	7849.3	7896.5	7930.9
30°	7118.4	7165.8	7195.9	7230.2	7286.1	7324.9	7367.9	7423.6	7453.7	7488.2	7518.3
32.5°	6667.0	6705.8	6722.9	6748.8	6787.5	6826.1	6860.6	6907.8	6920.8	6942.2	6942.2
35°	6013.8	6022.3	6018.0	6026.7	6043.9	6065.3	6095.4	6125.4	6142.6	6142.6	6129.9
37.5°	5248.6	5197.1	5141.2	5098.2	5085.2	5076.6	5093.9	5106.7	5124.0	5132.5	5111.1
40°	4453.4	4337.4	4212.6	4100.8	4023.5	3989.1	3976.2	3984.7	3984.7	4014.8	4014.8
42.5°	3769.9	3589.3	3404.6	3236.8	3125.0	3039.2	3000.4	3000.4	3004.7	3026.3	3039.2
45°	3202.5	2974.6	2759.6	2574.9	2420.1	2308.3	2256.8	2243.9	2239.6	2248.1	2278.2
47.5°	2768.3	2531.9	2308.3	2080.6	1917.3	1805.4	1758.2	1740.8	1723.7	1740.8	1745.3
50°	2428.8	2183.7	1947.3	1719.4	1547.5	1448.6	1388.4	1362.6	1358.3	1358.3	1367.0
52.5°	2119.1	1891.4	1655.0	1422.9	1242.3	1147.8	1091.9	1078.9	1061.8	1078.9	1078.9
55°	1826.8	1599.1	1367.0	1147.8	997.2	898.5	846.8	829.6	821.0	833.9	833.9
57.5°	1508.9	1315.3	1100.5	902.7	752.3	683.5	644.7	623.3	618.9	627.6	618.9
60°	1238.0	1074.7	889.8	709.3	593.3	520.2	490.1	481.4	472.8	481.4	481.4
62.5°	980.0	842.6	692.0	554.5	455.6	404.1	369.6	369.6	365.4	365.4	369.6
65°	726.5	618.9	511.5	395.4	318.1	279.4	253.5	253.5	249.3	253.5	249.3
67.5°	528.7	455.6	369.6	288.0	227.9	206.3	189.1	176.2	184.9	176.2	172.0
70°	387.0	326.6	266.5	219.2	176.2	154.8	141.9	137.5	129.0	129.0	129.0
72.5°	258.0	219.2	180.5	141.9	116.1	94.5	90.2	81.7	73.1	77.3	86.0
75°	172.0	146.1	129.0	103.2	77.3	77.3	51.7	51.7	43.0	51.7	38.7
77.5°	120.3	98.9	77.3	64.4	51.7	47.2	34.3	34.3	30.1	30.1	30.1
80°	86.0	73.1	55.9	47.2	34.3	34.3	30.1	25.8	21.4	21.4	25.8
82.5°	51.7	38.7	38.7	34.3	21.4	17.2	12.9	17.2	8.7	8.7	8.7
85°	30.1	25.8	21.4	12.9	8.7	8.7	4.2	0.0	4.2	4.2	0.0
87.5°	17.2	8.7	8.7	4.2	0.0	4.2	4.2	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



TEST NUMBER: P249061

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5
2.5°	8855.2	8850.7	8859.4	8859.4	8885.3	8880.8	8893.7	8893.7	8885.3	8889.5	8906.7
5°	8885.3	8898.2	8923.8	8945.4	8984.0	9001.3	9022.7	9044.3	9048.6	9061.5	9074.4
7.5°	8885.3	8928.2	8958.3	8996.9	9048.6	9078.6	9125.9	9164.6	9181.8	9203.2	9229.0
10°	8867.9	8910.9	8966.8	9009.8	9074.4	9121.6	9168.9	9229.0	9254.9	9289.2	9323.7
12.5°	8833.6	8880.8	8941.0	8996.9	9070.0	9113.0	9173.1	9229.0	9267.8	9315.0	9353.8
15°	8782.1	8837.8	8893.7	8949.7	9027.0	9078.6	9134.6	9199.0	9237.7	9289.2	9323.7
17.5°	8700.4	8760.5	8812.2	8863.7	8936.7	8996.9	9048.6	9108.7	9147.5	9190.5	9237.7
20°	8601.4	8657.4	8713.3	8756.3	8829.3	8880.8	8936.7	8992.6	9022.7	9031.4	9104.5
22.5°	8476.9	8515.5	8558.5	8627.3	8670.3	8717.5	8769.2	8820.7	8850.7	8898.2	8923.8
25°	8270.4	8309.2	8356.4	8386.5	8438.1	8476.9	8528.4	8584.3	8601.4	8636.0	8661.6
27.5°	7982.5	8003.9	8025.5	8051.2	8081.3	8102.9	8132.9	8158.8	8175.9	8193.1	8210.2
30°	7526.8	7526.8	7526.8	7509.6	7522.5	7535.4	7539.7	7535.4	7535.4	7531.2	7531.2
32.5°	6925.0	6890.7	6851.9	6817.6	6804.7	6787.5	6778.9	6765.9	6744.5	6731.6	6735.9
35°	6112.5	6035.2	5988.0	5945.0	5910.6	5884.8	5871.9	5859.0	5854.7	5837.6	5820.2
37.5°	5098.2	5042.3	5007.9	4982.1	4952.0	4926.2	4930.4	4934.9	4947.6	4939.1	4943.3
40°	4023.5	4010.6	4023.5	3993.4	3984.7	3993.4	4014.8	4045.1	4062.2	4079.4	4109.5
42.5°	3060.6	3082.0	3112.3	3112.3	3125.0	3142.3	3168.0	3215.4	3241.1	3271.1	3305.7
45°	2304.0	2329.9	2368.6	2381.3	2390.0	2411.4	2441.7	2480.3	2497.4	2523.2	2553.3
47.5°	1775.4	1792.5	1813.9	1835.5	1856.9	1865.6	1895.7	1895.7	1917.3	1934.4	1942.9
50°	1384.2	1401.3	1418.5	1431.4	1440.1	1453.0	1461.5	1474.4	1478.6	1487.3	1491.6
52.5°	1083.2	1104.8	1104.8	1113.3	1126.2	1139.1	1134.9	1139.1	1143.3	1143.3	1156.3
55°	846.8	846.8	859.7	859.7	868.4	864.0	868.4	868.4	868.4	868.4	872.6
57.5°	631.8	636.3	649.2	640.5	636.3	644.7	636.3	644.7	640.5	649.2	636.3
60°	485.7	485.7	490.1	490.1	494.4	494.4	494.4	490.1	490.1	485.7	485.7
62.5°	365.4	369.6	374.0	369.6	369.6	369.6	365.4	365.4	361.1	356.7	356.7
65°	245.1	240.8	249.3	240.8	245.1	245.1	240.8	245.1	232.1	236.4	232.1
67.5°	176.2	172.0	167.7	172.0	167.7	163.3	163.3	167.7	172.0	159.1	159.1
70°	116.1	120.3	116.1	120.3	124.7	124.7	120.3	116.1	120.3	111.8	116.1
72.5°	73.1	73.1	73.1	73.1	73.1	77.3	77.3	77.3	68.8	68.8	64.4
75°	34.3	47.2	38.7	34.3	47.2	47.2	43.0	43.0	38.7	38.7	38.7
77.5°	34.3	25.8	25.8	25.8	25.8	25.8	25.8	25.8	21.4	25.8	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	4.2	8.7	8.7	4.2	8.7	8.7	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249061

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5
2.5°	8902.4	8898.2	8902.4	8906.7	8902.4	8898.2	8902.4	8906.7	8889.5	8885.3	8893.7
5°	9091.6	9091.6	9100.0	9104.5	9100.0	9091.6	9091.6	9074.4	9061.5	9048.6	9044.3
7.5°	9254.9	9263.5	9272.0	9276.3	9272.0	9263.5	9254.9	9229.0	9203.2	9181.8	9164.6
10°	9353.8	9366.7	9383.8	9392.3	9383.8	9366.7	9353.8	9323.7	9289.2	9254.9	9229.0
12.5°	9396.8	9409.7	9431.1	9426.8	9431.1	9409.7	9396.8	9353.8	9315.0	9267.8	9229.0
15°	9366.7	9383.8	9405.3	9413.9	9405.3	9383.8	9366.7	9323.7	9289.2	9237.7	9199.0
17.5°	9272.0	9297.9	9310.8	9323.7	9310.8	9297.9	9272.0	9237.7	9190.5	9147.5	9108.7
20°	9143.0	9160.4	9177.5	9181.8	9177.5	9160.4	9143.0	9104.5	9031.4	9022.7	8992.6
22.5°	8958.3	8971.2	9009.8	8996.9	9009.8	8971.2	8958.3	8923.8	8898.2	8850.7	8820.7
25°	8691.7	8704.6	8709.0	8713.3	8709.0	8704.6	8691.7	8661.6	8636.0	8601.4	8584.3
27.5°	8231.8	8231.8	8240.3	8244.8	8240.3	8231.8	8231.8	8210.2	8193.1	8175.9	8158.8
30°	7535.4	7535.4	7535.4	7557.0	7535.4	7535.4	7535.4	7531.2	7531.2	7535.4	7535.4
32.5°	6731.6	6722.9	6714.5	6722.9	6714.5	6722.9	6731.6	6735.9	6731.6	6744.5	6765.9
35°	5820.2	5816.0	5828.9	5811.7	5828.9	5816.0	5820.2	5820.2	5837.6	5854.7	5859.0
37.5°	4947.6	4939.1	4956.3	4939.1	4956.3	4939.1	4947.6	4943.3	4939.1	4947.6	4934.9
40°	4118.1	4126.6	4126.6	4161.1	4126.6	4126.6	4118.1	4109.5	4079.4	4062.2	4045.1
42.5°	3322.8	3348.6	3340.0	3365.8	3340.0	3348.6	3322.8	3305.7	3271.1	3241.1	3215.4
45°	2570.5	2587.8	2587.8	2596.3	2587.8	2587.8	2570.5	2553.3	2523.2	2497.4	2480.3
47.5°	1973.0	1973.0	1973.0	1977.4	1973.0	1973.0	1973.0	1942.9	1934.4	1917.3	1895.7
50°	1500.2	1504.5	1508.9	1513.1	1508.9	1504.5	1500.2	1491.6	1487.3	1478.6	1474.4
52.5°	1152.0	1156.3	1147.8	1156.3	1147.8	1156.3	1152.0	1156.3	1143.3	1143.3	1139.1
55°	872.6	868.4	872.6	876.9	872.6	868.4	872.6	872.6	868.4	868.4	868.4
57.5°	640.5	631.8	631.8	631.8	631.8	631.8	640.5	636.3	649.2	640.5	644.7
60°	477.2	481.4	481.4	485.7	481.4	481.4	477.2	485.7	485.7	490.1	490.1
62.5°	352.5	365.4	356.7	365.4	356.7	365.4	352.5	356.7	356.7	361.1	365.4
65°	227.9	227.9	227.9	232.1	227.9	227.9	227.9	232.1	236.4	232.1	245.1
67.5°	154.8	159.1	167.7	163.3	167.7	159.1	154.8	159.1	159.1	172.0	167.7
70°	124.7	111.8	111.8	124.7	111.8	111.8	124.7	116.1	111.8	120.3	116.1
72.5°	73.1	64.4	73.1	73.1	73.1	64.4	73.1	64.4	68.8	68.8	77.3
75°	38.7	34.3	30.1	43.0	30.1	34.3	38.7	38.7	38.7	38.7	43.0
77.5°	25.8	21.4	30.1	30.1	30.1	21.4	25.8	21.4	25.8	21.4	25.8
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°	4.2	8.7	8.7	8.7	8.7	8.7	4.2	4.2	8.7	8.7	4.2
85°	0.0	8.7	4.2	4.2	4.2	8.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	0.0	0.0	4.2	0.0	0.0	4.2	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249061

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5
2.5°	8893.7	8880.8	8885.3	8859.4	8859.4	8850.7	8855.2	8833.6	8825.1	8816.4	8829.3
5°	9022.7	9001.3	8984.0	8945.4	8923.8	8898.2	8885.3	8850.7	8820.7	8794.8	8790.6
7.5°	9125.9	9078.6	9048.6	8996.9	8958.3	8928.2	8885.3	8837.8	8799.3	8764.8	8739.1
10°	9168.9	9121.6	9074.4	9009.8	8966.8	8910.9	8867.9	8807.8	8756.3	8709.0	8678.8
12.5°	9173.1	9113.0	9070.0	8996.9	8941.0	8880.8	8833.6	8764.8	8704.6	8657.4	8610.1
15°	9134.6	9078.6	9027.0	8949.7	8893.7	8837.8	8782.1	8709.0	8653.1	8597.2	8562.9
17.5°	9048.6	8996.9	8936.7	8863.7	8812.2	8760.5	8700.4	8640.2	8575.6	8515.5	8472.5
20°	8936.7	8880.8	8829.3	8756.3	8713.3	8657.4	8601.4	8537.0	8485.4	8425.2	8378.0
22.5°	8769.2	8717.5	8670.3	8627.3	8558.5	8515.5	8476.9	8403.8	8352.2	8296.2	8244.8
25°	8528.4	8476.9	8438.1	8386.5	8356.4	8309.2	8270.4	8206.0	8158.8	8107.1	8064.1
27.5°	8132.9	8102.9	8081.3	8051.2	8025.5	8003.9	7982.5	7930.9	7896.5	7849.3	7806.3
30°	7539.7	7535.4	7522.5	7509.6	7526.8	7526.8	7526.8	7518.3	7488.2	7453.7	7423.6
32.5°	6778.9	6787.5	6804.7	6817.6	6851.9	6890.7	6925.0	6942.2	6942.2	6920.8	6907.8
35°	5871.9	5884.8	5910.6	5945.0	5988.0	6035.2	6112.5	6129.9	6142.6	6142.6	6125.4
37.5°	4930.4	4926.2	4952.0	4982.1	5007.9	5042.3	5098.2	5111.1	5132.5	5124.0	5106.7
40°	4014.8	3993.4	3984.7	3993.4	4023.5	4010.6	4023.5	4014.8	4014.8	3984.7	3984.7
42.5°	3168.0	3142.3	3125.0	3112.3	3112.3	3082.0	3060.6	3039.2	3026.3	3004.7	3000.4
45°	2441.7	2411.4	2390.0	2381.3	2368.6	2329.9	2304.0	2278.2	2248.1	2239.6	2243.9
47.5°	1895.7	1865.6	1856.9	1835.5	1813.9	1792.5	1775.4	1745.3	1740.8	1723.7	1740.8
50°	1461.5	1453.0	1440.1	1431.4	1418.5	1401.3	1384.2	1367.0	1358.3	1358.3	1362.6
52.5°	1134.9	1139.1	1126.2	1113.3	1104.8	1104.8	1083.2	1078.9	1078.9	1061.8	1078.9
55°	868.4	864.0	868.4	859.7	859.7	846.8	846.8	833.9	833.9	821.0	829.6
57.5°	636.3	644.7	636.3	640.5	649.2	636.3	631.8	618.9	627.6	618.9	623.3
60°	494.4	494.4	494.4	490.1	490.1	485.7	485.7	481.4	481.4	472.8	481.4
62.5°	365.4	369.6	369.6	369.6	374.0	369.6	365.4	369.6	365.4	365.4	369.6
65°	240.8	245.1	245.1	240.8	249.3	240.8	245.1	249.3	253.5	249.3	253.5
67.5°	163.3	163.3	167.7	172.0	167.7	172.0	176.2	172.0	176.2	184.9	176.2
70°	120.3	124.7	124.7	120.3	116.1	120.3	116.1	129.0	129.0	129.0	137.5
72.5°	77.3	77.3	73.1	73.1	73.1	73.1	73.1	86.0	77.3	73.1	81.7
75°	43.0	47.2	47.2	34.3	38.7	47.2	34.3	38.7	51.7	43.0	51.7
77.5°	25.8	25.8	25.8	25.8	25.8	25.8	34.3	30.1	30.1	30.1	34.3
80°	21.4	17.2	17.2	12.9	17.2	17.2	17.2	25.8	21.4	21.4	25.8
82.5°	8.7	8.7	4.2	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	4.2	4.2	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: P249061

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5
2.5°	8794.8	8794.8	8790.6	8782.1	8764.8	8764.8	8760.5	8747.6	8739.1	8734.7	8734.7
5°	8751.8	8734.7	8717.5	8670.3	8670.3	8661.6	8636.0	8618.6	8610.1	8588.5	8580.0
7.5°	8713.3	8661.6	8631.5	8601.4	8562.9	8545.5	8515.5	8502.5	8472.5	8451.1	8438.1
10°	8618.6	8584.3	8545.5	8498.3	8468.2	8433.9	8399.4	8373.7	8335.0	8313.4	8296.2
12.5°	8554.2	8502.5	8468.2	8416.6	8365.1	8335.0	8287.7	8257.7	8218.9	8175.9	8150.1
15°	8494.1	8438.1	8390.9	8335.0	8279.1	8244.8	8188.8	8154.5	8098.6	8055.6	8025.5
17.5°	8403.8	8356.4	8304.9	8236.1	8184.6	8141.6	8081.3	8038.4	7986.8	7930.9	7900.8
20°	8309.2	8253.2	8201.8	8132.9	8081.3	8029.8	7969.6	7922.4	7862.0	7810.6	7776.2
22.5°	8184.6	8120.0	8077.0	8008.2	7948.0	7892.3	7836.4	7780.5	7724.6	7681.6	7642.8
25°	8003.9	7935.1	7887.9	7832.0	7776.2	7733.2	7664.4	7630.1	7574.2	7535.4	7496.7
27.5°	7746.0	7694.5	7651.5	7595.6	7548.3	7514.0	7462.4	7428.0	7380.6	7346.3	7316.2
30°	7367.9	7324.9	7286.1	7230.2	7195.9	7165.8	7118.4	7088.3	7054.0	7015.2	7006.7
32.5°	6860.6	6826.1	6787.5	6748.8	6722.9	6705.8	6667.0	6649.9	6615.5	6594.0	6572.6
35°	6095.4	6065.3	6043.9	6026.7	6018.0	6022.3	6013.8	6031.0	6039.5	6035.2	6039.5
37.5°	5093.9	5076.6	5085.2	5098.2	5141.2	5197.1	5248.6	5325.9	5377.5	5429.2	5476.4
40°	3976.2	3989.1	4023.5	4100.8	4212.6	4337.4	4453.4	4599.6	4745.7	4848.9	4943.3
42.5°	3000.4	3039.2	3125.0	3236.8	3404.6	3589.3	3769.9	3984.7	4161.1	4332.9	4453.4
45°	2256.8	2308.3	2420.1	2574.9	2759.6	2974.6	3202.5	3443.1	3653.9	3830.1	3963.3
47.5°	1758.2	1805.4	1917.3	2080.6	2308.3	2531.9	2768.3	3017.6	3236.8	3408.8	3524.9
50°	1388.4	1448.6	1547.5	1719.4	1947.3	2183.7	2428.8	2673.6	2880.1	3026.3	3129.4
52.5°	1091.9	1147.8	1242.3	1422.9	1655.0	1891.4	2119.1	2359.9	2540.4	2682.3	2751.1
55°	846.8	898.5	997.2	1147.8	1367.0	1599.1	1826.8	2033.3	2200.9	2304.0	2368.6
57.5°	644.7	683.5	752.3	902.7	1100.5	1315.3	1508.9	1715.2	1844.2	1917.3	1960.1
60°	490.1	520.2	593.3	709.3	889.8	1074.7	1238.0	1392.8	1496.0	1556.1	1599.1
62.5°	369.6	404.1	455.6	554.5	692.0	842.6	980.0	1096.1	1182.1	1220.8	1250.9
65°	253.5	279.4	318.1	395.4	511.5	618.9	726.5	812.5	868.4	911.4	928.5
67.5°	189.1	206.3	227.9	288.0	369.6	455.6	528.7	588.8	649.2	666.3	696.4
70°	141.9	154.8	176.2	219.2	266.5	326.6	387.0	421.3	464.3	494.4	503.0
72.5°	90.2	94.5	116.1	141.9	180.5	219.2	258.0	288.0	313.9	331.0	339.5
75°	51.7	77.3	77.3	103.2	129.0	146.1	172.0	193.4	206.3	219.2	219.2
77.5°	34.3	47.2	51.7	64.4	77.3	98.9	120.3	133.2	146.1	150.4	150.4
80°	30.1	34.3	34.3	47.2	55.9	73.1	86.0	90.2	98.9	103.2	111.8
82.5°	12.9	17.2	21.4	34.3	38.7	38.7	51.7	55.9	64.4	68.8	68.8
85°	4.2	8.7	8.7	12.9	21.4	25.8	30.1	34.3	38.7	38.7	43.0
87.5°	4.2	4.2	0.0	4.2	8.7	8.7	17.2	17.2	17.2	25.8	25.8
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: P249061

CATALOG NUMBER: LD8B150D010 ER8B150950 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5	8803.5
2.5°	8726.2	8730.4	8713.3	8709.0	8700.4	8704.6	8713.3
5°	8567.1	8571.4	8554.2	8537.0	8537.0	8532.6	8537.0
7.5°	8416.6	8421.0	8395.1	8386.5	8369.3	8373.7	8373.7
10°	8266.2	8266.2	8227.6	8223.2	8210.2	8206.0	8206.0
12.5°	8120.0	8107.1	8077.0	8059.9	8068.5	8042.7	8042.7
15°	7991.0	7969.6	7930.9	7918.0	7896.5	7887.9	7887.9
17.5°	7857.8	7840.6	7806.3	7780.5	7754.6	7750.4	7754.6
20°	7728.8	7711.7	7668.7	7651.5	7630.1	7630.1	7621.4
22.5°	7599.8	7582.7	7544.1	7531.2	7501.1	7501.1	7505.3
25°	7466.6	7453.7	7410.7	7402.2	7397.9	7380.6	7389.3
27.5°	7286.1	7277.5	7243.1	7230.2	7213.1	7208.8	7217.3
30°	6955.1	6942.2	6916.5	6903.6	6873.5	6877.8	6886.3
32.5°	6542.5	6525.3	6490.8	6477.9	6452.2	6443.6	6447.8
35°	6026.7	6013.8	5983.7	5983.7	5957.9	5949.2	5957.9
37.5°	5502.3	5515.0	5502.3	5515.0	5502.3	5497.9	5502.3
40°	5007.9	5055.2	5063.7	5111.1	5093.9	5119.6	5115.3
42.5°	4535.0	4612.3	4642.6	4681.1	4672.6	4689.8	4702.7
45°	4057.8	4122.4	4152.5	4178.3	4182.5	4191.2	4195.4
47.5°	3606.4	3658.1	3662.3	3692.4	3688.2	3688.2	3701.1
50°	3185.3	3219.7	3228.2	3249.7	3232.6	3223.9	3228.2
52.5°	2794.1	2828.5	2819.8	2828.5	2807.1	2798.4	2802.6
55°	2394.3	2411.4	2411.4	2411.4	2385.8	2385.8	2385.8
57.5°	1985.9	1990.3	1981.7	1985.9	1981.7	1955.8	1951.6
60°	1612.0	1612.0	1607.6	1612.0	1599.1	1586.2	1586.2
62.5°	1259.4	1268.1	1285.2	1268.1	1259.4	1268.1	1255.2
65°	941.5	958.6	954.2	962.9	958.6	958.6	950.0
67.5°	709.3	713.6	717.8	722.2	722.2	722.2	722.2
70°	520.2	533.1	528.7	528.7	528.7	528.7	554.5
72.5°	348.2	365.4	361.1	369.6	369.6	378.3	369.6
75°	236.4	253.5	245.1	258.0	253.5	245.1	266.5
77.5°	159.1	167.7	172.0	176.2	172.0	167.7	172.0
80°	111.8	120.3	116.1	120.3	120.3	120.3	124.7
82.5°	68.8	81.7	77.3	81.7	77.3	81.7	81.7
85°	47.2	51.7	43.0	51.7	47.2	47.2	55.9
87.5°	30.1	25.8	25.8	30.1	25.8	30.1	25.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)