

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: P249007

Luminaire Tested: **LD8B150D010 ER8B150840 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249007
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 ER8B150840 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15976.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

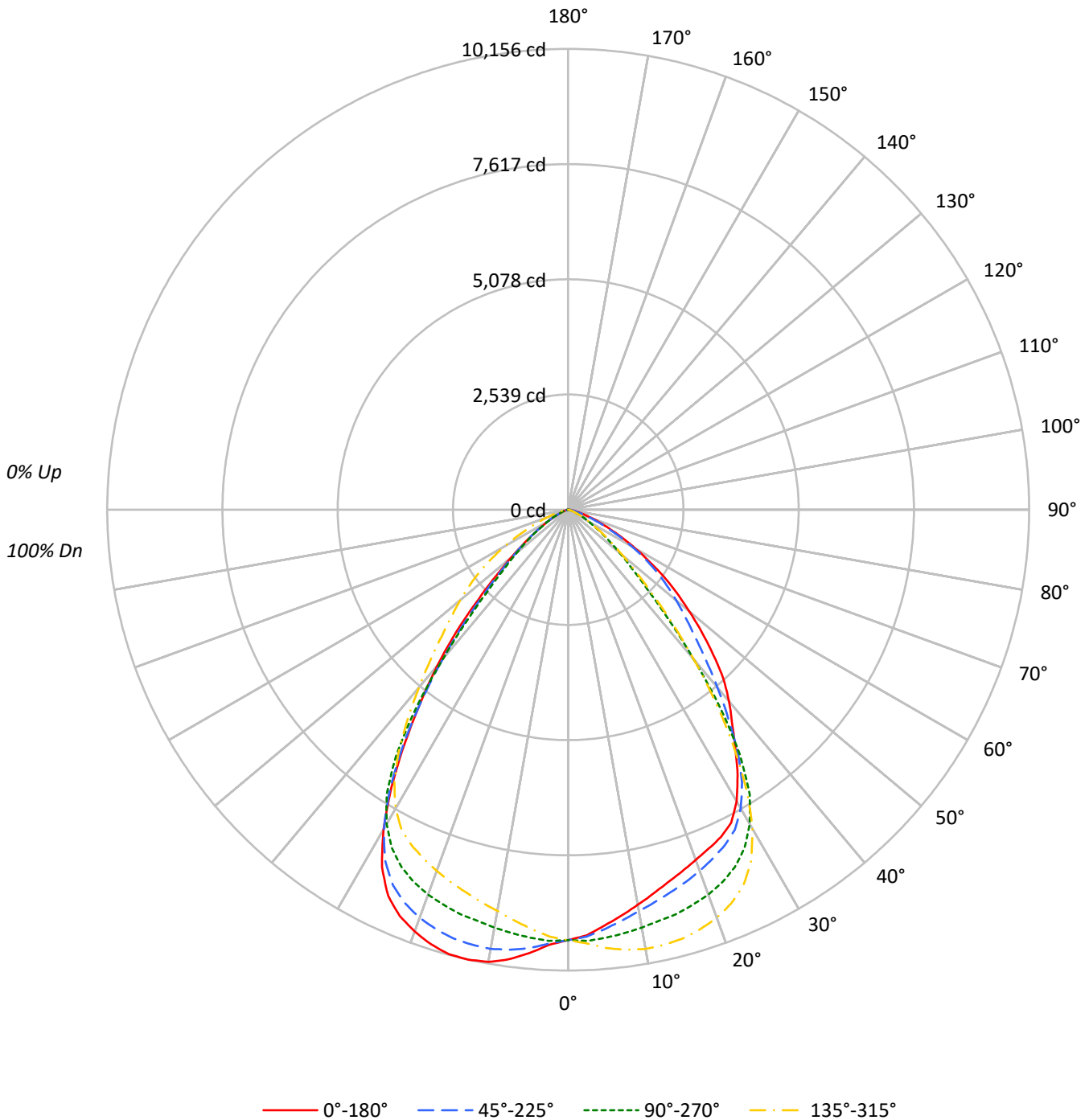
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	292464	292464	292464	292464
5°	284697	293151	303620	293151
10°	276820	292770	316840	292770
15°	271291	294506	323777	294506
20°	269443	296191	324609	296191
25°	270859	295595	319391	295595
30°	264163	284775	289892	284775
35°	241627	248422	235702	248422
40°	221840	172806	180458	172806
45°	197113	105421	121979	105421
50°	166840	70424	78205	70424
55°	138183	48052	50788	48052
60°	105392	31990	32267	31990
65°	74672	19934	18249	19934
70°	53861	13353	12117	13353
75°	34206	6636	5516	6636
80°	23867	4937	4102	4937
85°	21299	0	1628	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.7	5.7
10°-20°	2614.2	16.4
20°-30°	3958.4	24.8
30°-40°	3967.3	24.8
40°-50°	2491.3	15.6
50°-60°	1327.6	8.3
60°-70°	545.9	3.4
70°-80°	144.2	0.9
80°-90°	24.4	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°	7475.3	46.8
0°-40°	11442.6	71.6
0°-60°	15261.4	95.5
0°-90°	15976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15976.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9484	9484	9484	9484	9484	
5°	9197	9470	9809	9470	9197	867
15°	8498	9225	10142	9225	8498	2403
25°	7961	8688	9387	8688	7961	3651
35°	6419	6599	6261	6599	6419	4021
45°	4520	2417	2797	2417	4520	3476
55°	2570	894	945	894	2570	2292
65°	1023	273	250	273	1023	1062
75°	287	56	46	56	287	325
85°	60	0	5	0	60	66
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°	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4
2.5°	9387.2	9377.9	9373.3	9382.7	9387.2	9405.7	9401.1	9410.3	9410.3	9415.1	9424.2
5°	9197.4	9192.6	9197.4	9197.4	9215.9	9234.4	9229.8	9243.7	9252.8	9276.1	9285.2
7.5°	9021.4	9021.4	9016.7	9035.2	9044.5	9072.3	9067.6	9090.8	9104.7	9127.8	9160.2
10°	8840.7	8840.7	8845.3	8859.2	8864.0	8905.5	8905.5	8937.9	8956.4	8979.7	9021.4
12.5°	8664.8	8664.8	8692.6	8683.3	8701.8	8734.2	8748.1	8780.5	8808.3	8854.6	8896.4
15°	8498.0	8498.0	8507.3	8530.4	8544.3	8586.1	8609.1	8646.3	8678.7	8725.0	8785.3
17.5°	8354.5	8349.9	8354.5	8382.3	8410.1	8447.1	8465.6	8511.9	8544.3	8604.5	8660.2
20°	8210.9	8220.3	8220.3	8243.3	8261.8	8308.1	8326.6	8377.7	8414.7	8470.2	8535.2
22.5°	8085.9	8081.3	8081.3	8113.7	8127.6	8169.2	8187.7	8234.0	8275.7	8322.0	8382.3
25°	7960.8	7951.5	7970.2	7974.7	7983.9	8030.2	8044.1	8076.5	8118.3	8160.0	8220.3
27.5°	7775.5	7766.4	7771.0	7789.5	7803.4	7840.4	7849.7	7882.1	7914.5	7951.5	8002.6
30°	7418.9	7409.7	7405.2	7437.6	7451.5	7479.1	7493.0	7548.7	7557.9	7599.6	7636.6
32.5°	6946.5	6942.0	6951.3	6978.9	6992.9	7030.0	7048.5	7080.9	7104.0	7127.2	7164.2
35°	6418.7	6409.4	6418.7	6446.5	6446.5	6479.0	6492.9	6506.6	6502.0	6506.6	6497.4
37.5°	5927.9	5923.1	5927.9	5941.6	5927.9	5941.6	5927.9	5900.0	5849.1	5793.5	5737.8
40°	5511.0	5515.6	5487.9	5506.4	5455.3	5446.2	5395.3	5325.7	5223.9	5112.8	4955.3
42.5°	5066.5	5052.6	5034.1	5043.2	5001.7	4969.1	4885.8	4797.9	4668.1	4483.0	4292.9
45°	4520.0	4515.4	4506.0	4501.5	4473.6	4441.2	4371.7	4269.9	4126.3	3936.5	3709.4
47.5°	3987.4	3973.5	3973.5	3978.0	3945.6	3941.1	3885.4	3797.5	3672.5	3487.2	3251.0
50°	3477.8	3473.3	3482.6	3501.1	3477.8	3468.7	3431.7	3371.5	3260.3	3102.9	2880.4
52.5°	3019.4	3014.8	3024.2	3047.2	3037.9	3047.2	3010.3	2963.9	2889.8	2736.9	2542.5
55°	2570.3	2570.3	2570.3	2597.9	2597.9	2597.9	2579.5	2551.8	2482.2	2371.1	2190.6
57.5°	2102.5	2107.1	2134.9	2139.5	2134.9	2144.3	2139.5	2111.7	2065.5	1986.8	1847.9
60°	1708.9	1708.9	1722.8	1736.7	1732.0	1736.7	1736.7	1722.8	1676.5	1611.7	1500.6
62.5°	1352.3	1366.2	1356.8	1366.2	1384.7	1366.2	1356.8	1347.7	1315.3	1273.5	1180.9
65°	1023.4	1032.8	1032.8	1037.3	1028.0	1032.8	1014.3	1000.4	981.9	935.6	875.3
67.5°	778.1	778.1	778.1	778.1	773.3	768.8	764.2	750.3	717.9	699.4	634.4
70°	597.4	569.6	569.6	569.6	569.6	574.3	560.4	541.9	532.6	500.2	453.9
72.5°	398.2	407.5	398.2	398.2	389.1	393.6	375.1	365.8	356.6	338.2	310.3
75°	287.1	264.0	273.2	277.9	264.0	273.2	254.7	236.2	236.2	222.3	208.3
77.5°	185.3	180.7	185.3	189.9	185.3	180.7	171.4	162.0	162.0	157.5	143.5
80°	134.4	129.6	129.6	129.6	125.0	129.6	120.5	120.5	111.1	106.6	97.2
82.5°	88.1	88.1	83.3	88.1	83.3	88.1	74.2	74.2	74.2	69.4	60.2
85°	60.2	50.9	50.9	55.7	46.3	55.7	50.9	46.3	41.7	41.7	37.0
87.5°	27.8	32.4	27.8	32.4	27.8	27.8	32.4	27.8	27.8	18.5	18.5
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°	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4
2.5°	9438.1	9442.7	9442.7	9461.4	9470.5	9475.1	9475.1	9512.3	9498.4	9507.7	9516.9
5°	9303.9	9331.6	9340.9	9340.9	9391.8	9410.3	9428.8	9470.5	9475.1	9502.9	9535.3
7.5°	9174.1	9206.5	9225.2	9266.8	9299.2	9331.6	9387.2	9415.1	9442.7	9479.9	9521.4
10°	9049.1	9086.2	9123.2	9155.6	9206.5	9248.3	9285.2	9350.1	9382.7	9433.5	9489.0
12.5°	8928.8	8979.7	9012.1	9067.6	9123.2	9160.2	9215.9	9276.1	9327.0	9377.9	9442.7
15°	8822.2	8882.5	8919.5	8979.7	9039.9	9090.8	9151.1	9225.2	9262.2	9322.4	9382.7
17.5°	8706.3	8771.3	8817.7	8873.1	8947.3	9002.8	9053.8	9127.8	9174.1	9238.9	9308.5
20°	8586.1	8650.9	8706.3	8762.0	8836.1	8891.6	8951.9	9026.0	9076.9	9141.7	9197.4
22.5°	8442.5	8502.8	8562.8	8627.6	8701.8	8748.1	8817.7	8882.5	8937.9	8998.2	9053.8
25°	8257.2	8331.4	8377.7	8437.8	8498.0	8548.9	8623.0	8687.8	8734.2	8789.8	8840.7
27.5°	8039.6	8095.2	8132.2	8183.1	8243.3	8289.6	8345.1	8410.1	8456.4	8507.3	8544.3
30°	7669.0	7720.1	7752.5	7789.5	7849.7	7891.4	7937.8	7997.8	8030.2	8067.4	8099.8
32.5°	7182.7	7224.5	7243.0	7270.8	7312.5	7354.1	7391.3	7442.2	7456.1	7479.1	7479.1
35°	6479.0	6488.1	6483.5	6492.9	6511.4	6534.4	6566.8	6599.2	6617.7	6617.7	6604.0
37.5°	5654.5	5599.1	5538.8	5492.5	5478.6	5469.2	5487.9	5501.6	5520.3	5529.5	5506.4
40°	4797.9	4672.8	4538.5	4418.0	4334.7	4297.7	4283.8	4292.9	4292.9	4325.3	4325.3
42.5°	4061.5	3866.9	3667.9	3487.2	3366.7	3274.3	3232.5	3232.5	3237.1	3260.3	3274.3
45°	3450.2	3204.7	2973.1	2774.1	2607.3	2486.8	2431.3	2417.4	2412.9	2422.0	2454.4
47.5°	2982.4	2727.8	2486.8	2241.5	2065.5	1945.1	1894.2	1875.5	1857.0	1875.5	1880.3
50°	2616.6	2352.6	2098.0	1852.4	1667.2	1560.6	1495.8	1468.0	1463.4	1463.4	1472.7
52.5°	2283.0	2037.7	1783.1	1533.0	1338.3	1236.5	1176.3	1162.4	1143.9	1162.4	1162.4
55°	1968.1	1722.8	1472.7	1236.5	1074.3	968.0	912.3	893.8	884.5	898.4	898.4
57.5°	1625.6	1417.1	1185.7	972.5	810.5	736.4	694.6	671.6	666.8	676.1	666.8
60°	1333.8	1157.8	958.6	764.2	639.1	560.4	528.0	518.7	509.3	518.7	518.7
62.5°	1055.8	907.7	745.5	597.4	490.8	435.4	398.2	398.2	393.6	393.6	398.2
65°	782.7	666.8	551.1	426.0	342.7	301.0	273.2	273.2	268.6	273.2	268.6
67.5°	569.6	490.8	398.2	310.3	245.5	222.3	203.8	189.9	199.2	189.9	185.3
70°	416.9	351.9	287.1	236.2	189.9	166.8	152.9	148.1	139.0	139.0	139.0
72.5°	277.9	236.2	194.4	152.9	125.0	101.8	97.2	88.1	78.7	83.3	92.6
75°	185.3	157.5	139.0	111.1	83.3	83.3	55.7	55.7	46.3	55.7	41.7
77.5°	129.6	106.6	83.3	69.4	55.7	50.9	37.0	37.0	32.4	32.4	32.4
80°	92.6	78.7	60.2	50.9	37.0	37.0	32.4	27.8	23.1	23.1	27.8
82.5°	55.7	41.7	41.7	37.0	23.1	18.5	13.9	18.5	9.3	9.3	9.3
85°	32.4	27.8	23.1	13.9	9.3	9.3	4.6	0.0	4.6	4.6	0.0
87.5°	18.5	9.3	9.3	4.6	0.0	4.6	4.6	0.0	0.0	0.0	9.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4
2.5°	9540.1	9535.3	9544.7	9544.7	9572.5	9567.7	9581.7	9581.7	9572.5	9577.1	9595.6
5°	9572.5	9586.4	9614.1	9637.3	9678.9	9697.6	9720.6	9743.9	9748.5	9762.4	9776.3
7.5°	9572.5	9618.8	9651.2	9692.8	9748.5	9780.9	9831.8	9873.5	9892.0	9915.1	9942.9
10°	9553.8	9600.2	9660.4	9706.7	9776.3	9827.2	9878.1	9942.9	9970.7	10007.7	10044.9
12.5°	9516.9	9567.7	9632.6	9692.8	9771.5	9817.8	9882.6	9942.9	9984.6	10035.5	10077.3
15°	9461.4	9521.4	9581.7	9641.9	9725.2	9780.9	9841.1	9910.5	9952.2	10007.7	10044.9
17.5°	9373.3	9438.1	9493.8	9549.3	9628.0	9692.8	9748.5	9813.3	9855.0	9901.3	9952.2
20°	9266.8	9327.0	9387.2	9433.5	9512.3	9567.7	9628.0	9688.2	9720.6	9730.0	9808.7
22.5°	9132.6	9174.1	9220.4	9294.6	9340.9	9391.8	9447.5	9502.9	9535.3	9586.4	9614.1
25°	8910.1	8951.9	9002.8	9035.2	9090.8	9132.6	9188.0	9248.3	9266.8	9303.9	9331.6
27.5°	8600.0	8623.0	8646.3	8673.9	8706.3	8729.6	8762.0	8789.8	8808.3	8826.8	8845.3
30°	8108.9	8108.9	8108.9	8090.4	8104.4	8118.3	8122.9	8118.3	8118.3	8113.7	8113.7
32.5°	7460.6	7423.7	7381.9	7344.9	7331.0	7312.5	7303.2	7289.3	7266.2	7252.3	7256.9
35°	6585.3	6502.0	6451.1	6404.8	6367.8	6340.0	6326.1	6312.2	6307.6	6289.1	6270.4
37.5°	5492.5	5432.3	5395.3	5367.5	5335.0	5307.2	5311.8	5316.6	5330.3	5321.1	5325.7
40°	4334.7	4320.8	4334.7	4302.3	4292.9	4302.3	4325.3	4357.9	4376.4	4394.9	4427.3
42.5°	3297.3	3320.4	3353.0	3353.0	3366.7	3385.4	3413.0	3464.1	3491.8	3524.2	3561.3
45°	2482.2	2510.1	2551.8	2565.5	2574.9	2597.9	2630.5	2672.1	2690.6	2718.4	2750.8
47.5°	1912.7	1931.2	1954.2	1977.5	2000.5	2009.9	2042.3	2042.3	2065.5	2084.0	2093.2
50°	1491.2	1509.7	1528.2	1542.1	1551.4	1565.4	1574.5	1588.4	1593.0	1602.3	1606.9
52.5°	1167.0	1190.2	1190.2	1199.4	1213.3	1227.2	1222.6	1227.2	1231.8	1231.8	1245.7
55°	912.3	912.3	926.2	926.2	935.6	930.8	935.6	935.6	935.6	935.6	940.1
57.5°	680.7	685.5	699.4	690.0	685.5	694.6	685.5	694.6	690.0	699.4	685.5
60°	523.2	523.2	528.0	528.0	532.6	532.6	532.6	528.0	528.0	523.2	523.2
62.5°	393.6	398.2	403.0	398.2	398.2	398.2	393.6	393.6	389.1	384.3	384.3
65°	264.0	259.4	268.6	259.4	264.0	264.0	259.4	264.0	250.1	254.7	250.1
67.5°	189.9	185.3	180.7	185.3	180.7	175.9	175.9	180.7	185.3	171.4	171.4
70°	125.0	129.6	125.0	129.6	134.4	134.4	129.6	125.0	129.6	120.5	125.0
72.5°	78.7	78.7	78.7	78.7	78.7	83.3	83.3	83.3	74.2	74.2	69.4
75°	37.0	50.9	41.7	37.0	50.9	50.9	46.3	46.3	41.7	41.7	41.7
77.5°	37.0	27.8	27.8	27.8	27.8	27.8	27.8	27.8	23.1	27.8	23.1
80°	18.5	18.5	18.5	13.9	18.5	18.5	23.1	18.5	18.5	13.9	23.1
82.5°	9.3	9.3	9.3	0.0	4.6	9.3	9.3	4.6	9.3	9.3	4.6
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: P249007

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4
2.5°	9591.0	9586.4	9591.0	9595.6	9591.0	9586.4	9591.0	9595.6	9577.1	9572.5	9581.7
5°	9794.8	9794.8	9803.9	9808.7	9803.9	9794.8	9794.8	9776.3	9762.4	9748.5	9743.9
7.5°	9970.7	9980.1	9989.2	9993.8	9989.2	9980.1	9970.7	9942.9	9915.1	9892.0	9873.5
10°	10077.3	10091.2	10109.7	10118.8	10109.7	10091.2	10077.3	10044.9	10007.7	9970.7	9942.9
12.5°	10123.6	10137.5	10160.6	10156.0	10160.6	10137.5	10123.6	10077.3	10035.5	9984.6	9942.9
15°	10091.2	10109.7	10132.7	10142.1	10132.7	10109.7	10091.2	10044.9	10007.7	9952.2	9910.5
17.5°	9989.2	10017.0	10031.0	10044.9	10031.0	10017.0	9989.2	9952.2	9901.3	9855.0	9813.3
20°	9850.2	9868.9	9887.4	9892.0	9887.4	9868.9	9850.2	9808.7	9730.0	9720.6	9688.2
22.5°	9651.2	9665.2	9706.7	9692.8	9706.7	9665.2	9651.2	9614.1	9586.4	9535.3	9502.9
25°	9364.0	9377.9	9382.7	9387.2	9382.7	9377.9	9364.0	9331.6	9303.9	9266.8	9248.3
27.5°	8868.6	8868.6	8877.7	8882.5	8877.7	8868.6	8868.6	8845.3	8826.8	8808.3	8789.8
30°	8118.3	8118.3	8118.3	8141.5	8118.3	8118.3	8118.3	8113.7	8113.7	8118.3	8118.3
32.5°	7252.3	7243.0	7233.8	7243.0	7233.8	7243.0	7252.3	7256.9	7252.3	7266.2	7289.3
35°	6270.4	6265.8	6279.8	6261.3	6279.8	6265.8	6270.4	6270.4	6289.1	6307.6	6312.2
37.5°	5330.3	5321.1	5339.6	5321.1	5339.6	5321.1	5330.3	5325.7	5321.1	5330.3	5316.6
40°	4436.7	4445.8	4445.8	4483.0	4445.8	4445.8	4436.7	4427.3	4394.9	4376.4	4357.9
42.5°	3579.8	3607.7	3598.3	3626.1	3598.3	3607.7	3579.8	3561.3	3524.2	3491.8	3464.1
45°	2769.3	2788.0	2788.0	2797.1	2788.0	2788.0	2769.3	2750.8	2718.4	2690.6	2672.1
47.5°	2125.6	2125.6	2125.6	2130.4	2125.6	2125.6	2125.6	2093.2	2084.0	2065.5	2042.3
50°	1616.3	1620.8	1625.6	1630.2	1625.6	1620.8	1616.3	1606.9	1602.3	1593.0	1588.4
52.5°	1241.1	1245.7	1236.5	1245.7	1236.5	1245.7	1241.1	1245.7	1231.8	1231.8	1227.2
55°	940.1	935.6	940.1	944.7	940.1	935.6	940.1	940.1	935.6	935.6	935.6
57.5°	690.0	680.7	680.7	680.7	680.7	680.7	690.0	685.5	699.4	690.0	694.6
60°	514.1	518.7	518.7	523.2	518.7	518.7	514.1	523.2	523.2	528.0	528.0
62.5°	379.7	393.6	384.3	393.6	384.3	393.6	379.7	384.3	384.3	389.1	393.6
65°	245.5	245.5	245.5	250.1	245.5	245.5	245.5	250.1	254.7	250.1	264.0
67.5°	166.8	171.4	180.7	175.9	180.7	171.4	166.8	171.4	171.4	185.3	180.7
70°	134.4	120.5	120.5	134.4	120.5	120.5	134.4	125.0	120.5	129.6	125.0
72.5°	78.7	69.4	78.7	78.7	78.7	69.4	78.7	69.4	74.2	74.2	83.3
75°	41.7	37.0	32.4	46.3	32.4	37.0	41.7	41.7	41.7	41.7	46.3
77.5°	27.8	23.1	32.4	32.4	32.4	23.1	27.8	23.1	27.8	23.1	27.8
80°	13.9	18.5	13.9	23.1	13.9	18.5	13.9	23.1	13.9	18.5	18.5
82.5°	4.6	9.3	9.3	9.3	9.3	9.3	4.6	4.6	9.3	9.3	4.6
85°	0.0	9.3	4.6	4.6	4.6	9.3	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.0	0.0	4.6	0.0	0.0	4.6	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: P249007

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4
2.5°	9581.7	9567.7	9572.5	9544.7	9544.7	9535.3	9540.1	9516.9	9507.7	9498.4	9512.3
5°	9720.6	9697.6	9678.9	9637.3	9614.1	9586.4	9572.5	9535.3	9502.9	9475.1	9470.5
7.5°	9831.8	9780.9	9748.5	9692.8	9651.2	9618.8	9572.5	9521.4	9479.9	9442.7	9415.1
10°	9878.1	9827.2	9776.3	9706.7	9660.4	9600.2	9553.8	9489.0	9433.5	9382.7	9350.1
12.5°	9882.6	9817.8	9771.5	9692.8	9632.6	9567.7	9516.9	9442.7	9377.9	9327.0	9276.1
15°	9841.1	9780.9	9725.2	9641.9	9581.7	9521.4	9461.4	9382.7	9322.4	9262.2	9225.2
17.5°	9748.5	9692.8	9628.0	9549.3	9493.8	9438.1	9373.3	9308.5	9238.9	9174.1	9127.8
20°	9628.0	9567.7	9512.3	9433.5	9387.2	9327.0	9266.8	9197.4	9141.7	9076.9	9026.0
22.5°	9447.5	9391.8	9340.9	9294.6	9220.4	9174.1	9132.6	9053.8	8998.2	8937.9	8882.5
25°	9188.0	9132.6	9090.8	9035.2	9002.8	8951.9	8910.1	8840.7	8789.8	8734.2	8687.8
27.5°	8762.0	8729.6	8706.3	8673.9	8646.3	8623.0	8600.0	8544.3	8507.3	8456.4	8410.1
30°	8122.9	8118.3	8104.4	8090.4	8108.9	8108.9	8108.9	8099.8	8067.4	8030.2	7997.8
32.5°	7303.2	7312.5	7331.0	7344.9	7381.9	7423.7	7460.6	7479.1	7479.1	7456.1	7442.2
35°	6326.1	6340.0	6367.8	6404.8	6451.1	6502.0	6585.3	6604.0	6617.7	6617.7	6599.2
37.5°	5311.8	5307.2	5335.0	5367.5	5395.3	5432.3	5492.5	5506.4	5529.5	5520.3	5501.6
40°	4325.3	4302.3	4292.9	4302.3	4334.7	4320.8	4334.7	4325.3	4325.3	4292.9	4292.9
42.5°	3413.0	3385.4	3366.7	3353.0	3353.0	3320.4	3297.3	3274.3	3260.3	3237.1	3232.5
45°	2630.5	2597.9	2574.9	2565.5	2551.8	2510.1	2482.2	2454.4	2422.0	2412.9	2417.4
47.5°	2042.3	2009.9	2000.5	1977.5	1954.2	1931.2	1912.7	1880.3	1875.5	1857.0	1875.5
50°	1574.5	1565.4	1551.4	1542.1	1528.2	1509.7	1491.2	1472.7	1463.4	1463.4	1468.0
52.5°	1222.6	1227.2	1213.3	1199.4	1190.2	1190.2	1167.0	1162.4	1162.4	1143.9	1162.4
55°	935.6	930.8	935.6	926.2	926.2	912.3	912.3	898.4	898.4	884.5	893.8
57.5°	685.5	694.6	685.5	690.0	699.4	685.5	680.7	666.8	676.1	666.8	671.6
60°	532.6	532.6	532.6	528.0	528.0	523.2	523.2	518.7	518.7	509.3	518.7
62.5°	393.6	398.2	398.2	398.2	403.0	398.2	393.6	398.2	393.6	393.6	398.2
65°	259.4	264.0	264.0	259.4	268.6	259.4	264.0	268.6	273.2	268.6	273.2
67.5°	175.9	175.9	180.7	185.3	180.7	185.3	189.9	185.3	189.9	199.2	189.9
70°	129.6	134.4	134.4	129.6	125.0	129.6	125.0	139.0	139.0	139.0	148.1
72.5°	83.3	83.3	78.7	78.7	78.7	78.7	78.7	92.6	83.3	78.7	88.1
75°	46.3	50.9	50.9	37.0	41.7	50.9	37.0	41.7	55.7	46.3	55.7
77.5°	27.8	27.8	27.8	27.8	27.8	27.8	37.0	32.4	32.4	32.4	37.0
80°	23.1	18.5	18.5	13.9	18.5	18.5	18.5	27.8	23.1	23.1	27.8
82.5°	9.3	9.3	4.6	0.0	9.3	9.3	9.3	9.3	9.3	9.3	18.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	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: P249007

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4
2.5°	9475.1	9475.1	9470.5	9461.4	9442.7	9442.7	9438.1	9424.2	9415.1	9410.3	9410.3
5°	9428.8	9410.3	9391.8	9340.9	9340.9	9331.6	9303.9	9285.2	9276.1	9252.8	9243.7
7.5°	9387.2	9331.6	9299.2	9266.8	9225.2	9206.5	9174.1	9160.2	9127.8	9104.7	9090.8
10°	9285.2	9248.3	9206.5	9155.6	9123.2	9086.2	9049.1	9021.4	8979.7	8956.4	8937.9
12.5°	9215.9	9160.2	9123.2	9067.6	9012.1	8979.7	8928.8	8896.4	8854.6	8808.3	8780.5
15°	9151.1	9090.8	9039.9	8979.7	8919.5	8882.5	8822.2	8785.3	8725.0	8678.7	8646.3
17.5°	9053.8	9002.8	8947.3	8873.1	8817.7	8771.3	8706.3	8660.2	8604.5	8544.3	8511.9
20°	8951.9	8891.6	8836.1	8762.0	8706.3	8650.9	8586.1	8535.2	8470.2	8414.7	8377.7
22.5°	8817.7	8748.1	8701.8	8627.6	8562.8	8502.8	8442.5	8382.3	8322.0	8275.7	8234.0
25°	8623.0	8548.9	8498.0	8437.8	8377.7	8331.4	8257.2	8220.3	8160.0	8118.3	8076.5
27.5°	8345.1	8289.6	8243.3	8183.1	8132.2	8095.2	8039.6	8002.6	7951.5	7914.5	7882.1
30°	7937.8	7891.4	7849.7	7789.5	7752.5	7720.1	7669.0	7636.6	7599.6	7557.9	7548.7
32.5°	7391.3	7354.1	7312.5	7270.8	7243.0	7224.5	7182.7	7164.2	7127.2	7104.0	7080.9
35°	6566.8	6534.4	6511.4	6492.9	6483.5	6488.1	6479.0	6497.4	6506.6	6502.0	6506.6
37.5°	5487.9	5469.2	5478.6	5492.5	5538.8	5599.1	5654.5	5737.8	5793.5	5849.1	5900.0
40°	4283.8	4297.7	4334.7	4418.0	4538.5	4672.8	4797.9	4955.3	5112.8	5223.9	5325.7
42.5°	3232.5	3274.3	3366.7	3487.2	3667.9	3866.9	4061.5	4292.9	4483.0	4668.1	4797.9
45°	2431.3	2486.8	2607.3	2774.1	2973.1	3204.7	3450.2	3709.4	3936.5	4126.3	4269.9
47.5°	1894.2	1945.1	2065.5	2241.5	2486.8	2727.8	2982.4	3251.0	3487.2	3672.5	3797.5
50°	1495.8	1560.6	1667.2	1852.4	2098.0	2352.6	2616.6	2880.4	3102.9	3260.3	3371.5
52.5°	1176.3	1236.5	1338.3	1533.0	1783.1	2037.7	2283.0	2542.5	2736.9	2889.8	2963.9
55°	912.3	968.0	1074.3	1236.5	1472.7	1722.8	1968.1	2190.6	2371.1	2482.2	2551.8
57.5°	694.6	736.4	810.5	972.5	1185.7	1417.1	1625.6	1847.9	1986.8	2065.5	2111.7
60°	528.0	560.4	639.1	764.2	958.6	1157.8	1333.8	1500.6	1611.7	1676.5	1722.8
62.5°	398.2	435.4	490.8	597.4	745.5	907.7	1055.8	1180.9	1273.5	1315.3	1347.7
65°	273.2	301.0	342.7	426.0	551.1	666.8	782.7	875.3	935.6	981.9	1000.4
67.5°	203.8	222.3	245.5	310.3	398.2	490.8	569.6	634.4	699.4	717.9	750.3
70°	152.9	166.8	189.9	236.2	287.1	351.9	416.9	453.9	500.2	532.6	541.9
72.5°	97.2	101.8	125.0	152.9	194.4	236.2	277.9	310.3	338.2	356.6	365.8
75°	55.7	83.3	83.3	111.1	139.0	157.5	185.3	208.3	222.3	236.2	236.2
77.5°	37.0	50.9	55.7	69.4	83.3	106.6	129.6	143.5	157.5	162.0	162.0
80°	32.4	37.0	37.0	50.9	60.2	78.7	92.6	97.2	106.6	111.1	120.5
82.5°	13.9	18.5	23.1	37.0	41.7	41.7	55.7	60.2	69.4	74.2	74.2
85°	4.6	9.3	9.3	13.9	23.1	27.8	32.4	37.0	41.7	41.7	46.3
87.5°	4.6	4.6	0.0	4.6	9.3	9.3	18.5	18.5	18.5	27.8	27.8
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: P249007

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4
2.5°	9401.1	9405.7	9387.2	9382.7	9373.3	9377.9	9387.2
5°	9229.8	9234.4	9215.9	9197.4	9197.4	9192.6	9197.4
7.5°	9067.6	9072.3	9044.5	9035.2	9016.7	9021.4	9021.4
10°	8905.5	8905.5	8864.0	8859.2	8845.3	8840.7	8840.7
12.5°	8748.1	8734.2	8701.8	8683.3	8692.6	8664.8	8664.8
15°	8609.1	8586.1	8544.3	8530.4	8507.3	8498.0	8498.0
17.5°	8465.6	8447.1	8410.1	8382.3	8354.5	8349.9	8354.5
20°	8326.6	8308.1	8261.8	8243.3	8220.3	8220.3	8210.9
22.5°	8187.7	8169.2	8127.6	8113.7	8081.3	8081.3	8085.9
25°	8044.1	8030.2	7983.9	7974.7	7970.2	7951.5	7960.8
27.5°	7849.7	7840.4	7803.4	7789.5	7771.0	7766.4	7775.5
30°	7493.0	7479.1	7451.5	7437.6	7405.2	7409.7	7418.9
32.5°	7048.5	7030.0	6992.9	6978.9	6951.3	6942.0	6946.5
35°	6492.9	6479.0	6446.5	6446.5	6418.7	6409.4	6418.7
37.5°	5927.9	5941.6	5927.9	5941.6	5927.9	5923.1	5927.9
40°	5395.3	5446.2	5455.3	5506.4	5487.9	5515.6	5511.0
42.5°	4885.8	4969.1	5001.7	5043.2	5034.1	5052.6	5066.5
45°	4371.7	4441.2	4473.6	4501.5	4506.0	4515.4	4520.0
47.5°	3885.4	3941.1	3945.6	3978.0	3973.5	3973.5	3987.4
50°	3431.7	3468.7	3477.8	3501.1	3482.6	3473.3	3477.8
52.5°	3010.3	3047.2	3037.9	3047.2	3024.2	3014.8	3019.4
55°	2579.5	2597.9	2597.9	2597.9	2570.3	2570.3	2570.3
57.5°	2139.5	2144.3	2134.9	2139.5	2134.9	2107.1	2102.5
60°	1736.7	1736.7	1732.0	1736.7	1722.8	1708.9	1708.9
62.5°	1356.8	1366.2	1384.7	1366.2	1356.8	1366.2	1352.3
65°	1014.3	1032.8	1028.0	1037.3	1032.8	1032.8	1023.4
67.5°	764.2	768.8	773.3	778.1	778.1	778.1	778.1
70°	560.4	574.3	569.6	569.6	569.6	569.6	597.4
72.5°	375.1	393.6	389.1	398.2	398.2	407.5	398.2
75°	254.7	273.2	264.0	277.9	273.2	264.0	287.1
77.5°	171.4	180.7	185.3	189.9	185.3	180.7	185.3
80°	120.5	129.6	125.0	129.6	129.6	129.6	134.4
82.5°	74.2	88.1	83.3	88.1	83.3	88.1	88.1
85°	50.9	55.7	46.3	55.7	50.9	50.9	60.2
87.5°	32.4	27.8	27.8	32.4	27.8	32.4	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)