

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: P248665

Luminaire Tested: **LD8B150D010 ER8B150830 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248665  
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 ER8B150830 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15492.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 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

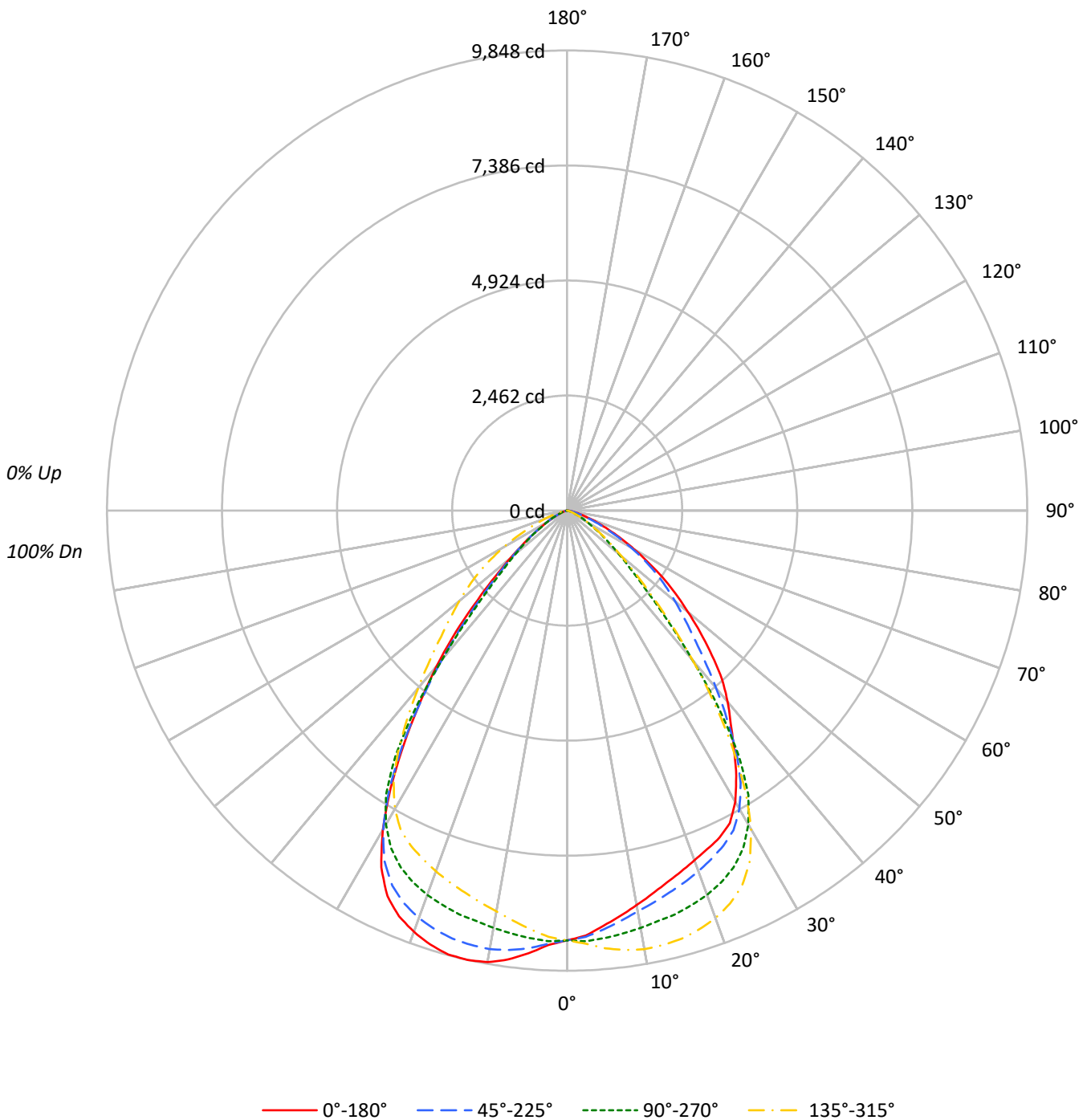
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248665

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P248665

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WMH

**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°	283605	283605	283605	283605
5°	276070	284270	294420	284270
10°	268435	283900	307243	283900
15°	263071	285583	313967	285583
20°	261282	287219	314774	287219
25°	262653	286640	309715	286640
30°	256158	276148	281111	276148
35°	234309	240896	228560	240896
40°	215117	167573	174992	167573
45°	191139	102229	118285	102229
50°	161788	68289	75835	68289
55°	133995	46595	49251	46595
60°	102198	31021	31293	31021
65°	72410	19328	17694	19328
70°	52229	12947	11748	12947
75°	33169	6434	5349	6434
80°	23139	4795	3978	4795
85°	20662	0	1557	0



TEST NUMBER: P248665

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	875.4	5.7
10°-20°	2535.0	16.4
20°-30°	3838.5	24.8
30°-40°	3847.1	24.8
40°-50°	2415.8	15.6
50°-60°	1287.4	8.3
60°-70°	529.4	3.4
70°-80°	139.9	0.9
80°-90°	23.7	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°	7248.8	46.8
0°-40°	11095.9	71.6
0°-60°	14799.1	95.5
0°-90°	15492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9197	9197	9197	9197	9197	
5°	8919	9184	9512	9184	8919	841
15°	8240	8946	9835	8946	8240	2331
25°	7720	8425	9103	8425	7720	3541
35°	6224	6399	6072	6399	6224	3899
45°	4383	2344	2712	2344	4383	3371
55°	2492	867	916	867	2492	2222
65°	992	265	242	265	992	1029
75°	278	54	45	54	278	315
85°	58	0	4	0	58	64
90°	0	0	0	0	0	



TEST NUMBER: P248665

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1
2.5°	9102.8	9093.8	9089.3	9098.4	9102.8	9120.8	9116.3	9125.2	9125.2	9129.8	9138.7
5°	8918.7	8914.1	8918.7	8918.7	8936.7	8954.6	8950.2	8963.7	8972.5	8995.1	9003.9
7.5°	8748.1	8748.1	8743.5	8761.4	8770.5	8797.5	8792.9	8815.4	8828.9	8851.3	8882.7
10°	8572.9	8572.9	8577.3	8590.8	8595.4	8635.7	8635.7	8667.2	8685.1	8707.6	8748.1
12.5°	8402.3	8402.3	8429.3	8420.2	8438.1	8469.6	8483.1	8514.5	8541.5	8586.4	8626.9
15°	8240.5	8240.5	8249.6	8272.0	8285.5	8325.9	8348.3	8384.3	8415.8	8460.7	8519.1
17.5°	8101.4	8096.9	8101.4	8128.3	8155.3	8191.2	8209.1	8254.0	8285.5	8343.9	8397.8
20°	7962.2	7971.2	7971.2	7993.6	8011.5	8056.4	8074.4	8123.9	8159.8	8213.6	8276.6
22.5°	7840.9	7836.5	7836.5	7867.9	7881.4	7921.7	7939.6	7984.5	8025.0	8069.9	8128.3
25°	7719.6	7710.6	7728.7	7733.1	7742.0	7786.9	7800.4	7831.9	7872.3	7912.8	7971.2
27.5°	7540.0	7531.1	7535.5	7553.5	7567.0	7602.8	7611.9	7643.3	7674.7	7710.6	7760.1
30°	7194.1	7185.3	7180.8	7212.3	7225.7	7252.5	7266.0	7320.0	7328.9	7369.4	7405.2
32.5°	6736.1	6731.7	6740.7	6767.5	6781.0	6817.1	6835.0	6866.4	6888.8	6911.3	6947.2
35°	6224.3	6215.2	6224.3	6251.2	6251.2	6282.7	6296.2	6309.5	6305.0	6309.5	6300.6
37.5°	5748.3	5743.7	5748.3	5761.6	5748.3	5761.6	5748.3	5721.3	5671.9	5618.0	5564.0
40°	5344.0	5348.5	5321.7	5339.6	5290.1	5281.2	5231.8	5164.4	5065.7	4957.9	4805.2
42.5°	4913.0	4899.5	4881.6	4890.4	4850.1	4818.5	4737.7	4652.5	4526.7	4347.2	4162.9
45°	4383.0	4378.6	4369.5	4365.1	4338.1	4306.7	4239.2	4140.5	4001.3	3817.2	3597.1
47.5°	3866.6	3853.1	3853.1	3857.5	3826.1	3821.7	3767.7	3682.5	3561.2	3381.5	3152.5
50°	3372.5	3368.0	3377.1	3395.0	3372.5	3363.6	3327.8	3269.3	3161.6	3008.9	2793.2
52.5°	2927.9	2923.5	2932.6	2954.9	2945.9	2954.9	2919.1	2874.1	2802.2	2654.0	2465.5
55°	2492.4	2492.4	2492.4	2519.2	2519.2	2519.2	2501.3	2474.5	2407.0	2299.3	2124.2
57.5°	2038.8	2043.3	2070.3	2074.7	2070.3	2079.3	2074.7	2047.7	2003.0	1926.6	1791.9
60°	1657.1	1657.1	1670.6	1684.1	1679.5	1684.1	1684.1	1670.6	1625.7	1562.9	1455.1
62.5°	1311.3	1324.8	1315.7	1324.8	1342.7	1324.8	1315.7	1306.8	1275.4	1234.9	1145.1
65°	992.4	1001.5	1001.5	1005.9	996.9	1001.5	983.6	970.1	952.1	907.2	848.8
67.5°	754.5	754.5	754.5	754.5	749.9	745.5	741.0	727.5	696.1	678.2	615.2
70°	579.3	552.3	552.3	552.3	552.3	556.9	543.4	525.5	516.5	485.0	440.1
72.5°	386.1	395.2	386.1	386.1	377.3	381.7	363.8	354.7	345.8	327.9	300.9
75°	278.4	256.0	264.9	269.5	256.0	264.9	247.0	229.0	229.0	215.5	202.0
77.5°	179.7	175.2	179.7	184.1	179.7	175.2	166.2	157.1	157.1	152.7	139.2
80°	130.3	125.7	125.7	125.7	121.3	125.7	116.8	116.8	107.8	103.3	94.3
82.5°	85.4	85.4	80.8	85.4	80.8	85.4	71.9	71.9	71.9	67.3	58.4
85°	58.4	49.4	49.4	54.0	44.9	54.0	49.4	44.9	40.5	40.5	35.9
87.5°	27.0	31.4	27.0	31.4	27.0	27.0	31.4	27.0	27.0	17.9	17.9
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: P248665

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1
2.5°	9152.2	9156.6	9156.6	9174.7	9183.6	9188.1	9188.1	9224.1	9210.6	9219.7	9228.5
5°	9022.1	9048.9	9057.9	9057.9	9107.3	9125.2	9143.1	9183.6	9188.1	9215.0	9246.5
7.5°	8896.2	8927.6	8945.7	8986.0	9017.4	9048.9	9102.8	9129.8	9156.6	9192.7	9233.0
10°	8774.9	8811.0	8846.8	8878.3	8927.6	8968.1	9003.9	9066.8	9098.4	9147.8	9201.5
12.5°	8658.3	8707.6	8739.1	8792.9	8846.8	8882.7	8936.7	8995.1	9044.4	9093.8	9156.6
15°	8555.0	8613.4	8649.2	8707.6	8766.1	8815.4	8873.8	8945.7	8981.6	9040.0	9098.4
17.5°	8442.6	8505.6	8550.5	8604.3	8676.2	8730.0	8779.5	8851.3	8896.2	8959.0	9026.5
20°	8325.9	8388.8	8442.6	8496.6	8568.5	8622.2	8680.7	8752.6	8801.9	8864.8	8918.7
22.5°	8186.8	8245.2	8303.4	8366.2	8438.1	8483.1	8550.5	8613.4	8667.2	8725.6	8779.5
25°	8007.1	8079.0	8123.9	8182.1	8240.5	8289.9	8361.8	8424.6	8469.6	8523.5	8572.9
27.5°	7796.0	7850.0	7885.8	7935.2	7993.6	8038.5	8092.3	8155.3	8200.2	8249.6	8285.5
30°	7436.7	7486.2	7517.6	7553.5	7611.9	7652.4	7697.3	7755.5	7786.9	7823.0	7854.4
32.5°	6965.1	7005.6	7023.5	7050.5	7091.0	7131.3	7167.3	7216.7	7230.2	7252.5	7252.5
35°	6282.7	6291.5	6287.1	6296.2	6314.1	6336.5	6367.9	6399.3	6417.2	6417.2	6403.9
37.5°	5483.2	5429.4	5371.0	5326.1	5312.6	5303.6	5321.7	5335.0	5353.1	5362.0	5339.6
40°	4652.5	4531.3	4401.0	4284.1	4203.4	4167.5	4154.0	4162.9	4162.9	4194.3	4194.3
42.5°	3938.5	3749.8	3556.8	3381.5	3264.7	3175.1	3134.6	3134.6	3139.0	3161.6	3175.1
45°	3345.7	3107.6	2883.0	2690.0	2528.3	2411.5	2357.7	2344.2	2339.8	2348.6	2380.1
47.5°	2892.1	2645.1	2411.5	2173.6	2003.0	1886.2	1836.8	1818.7	1800.8	1818.7	1823.3
50°	2537.4	2281.3	2034.4	1796.3	1616.6	1513.3	1450.5	1423.5	1419.0	1419.0	1428.1
52.5°	2213.9	1976.0	1729.0	1486.5	1297.8	1199.1	1140.7	1127.2	1109.3	1127.2	1127.2
55°	1908.5	1670.6	1428.1	1199.1	1041.8	938.6	884.7	866.7	857.7	871.2	871.2
57.5°	1576.4	1374.1	1149.7	943.1	786.0	714.1	673.6	651.2	646.6	655.6	646.6
60°	1293.4	1122.7	929.6	741.0	619.8	543.4	512.0	503.0	493.9	503.0	503.0
62.5°	1023.9	880.2	722.9	579.3	476.0	422.2	386.1	386.1	381.7	381.7	386.1
65°	759.0	646.6	534.4	413.1	332.3	291.9	264.9	264.9	260.4	264.9	260.4
67.5°	552.3	476.0	386.1	300.9	238.1	215.5	197.6	184.1	193.2	184.1	179.7
70°	404.3	341.2	278.4	229.0	184.1	161.7	148.2	143.6	134.8	134.8	134.8
72.5°	269.5	229.0	188.5	148.2	121.3	98.7	94.3	85.4	76.3	80.8	89.8
75°	179.7	152.7	134.8	107.8	80.8	80.8	54.0	54.0	44.9	54.0	40.5
77.5°	125.7	103.3	80.8	67.3	54.0	49.4	35.9	35.9	31.4	31.4	31.4
80°	89.8	76.3	58.4	49.4	35.9	35.9	31.4	27.0	22.4	22.4	27.0
82.5°	54.0	40.5	40.5	35.9	22.4	17.9	13.5	17.9	9.1	9.1	9.1
85°	31.4	27.0	22.4	13.5	9.1	9.1	4.4	0.0	4.4	4.4	0.0
87.5°	17.9	9.1	9.1	4.4	0.0	4.4	4.4	0.0	0.0	0.0	9.1
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: P248665

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1
2.5°	9251.1	9246.5	9255.5	9255.5	9282.5	9277.9	9291.4	9291.4	9282.5	9286.9	9304.9
5°	9282.5	9296.0	9322.8	9345.4	9385.7	9403.8	9426.1	9448.7	9453.1	9466.6	9480.1
7.5°	9282.5	9327.4	9358.8	9399.1	9453.1	9484.5	9533.9	9574.4	9592.3	9614.7	9641.7
10°	9264.4	9309.3	9367.7	9412.6	9480.1	9529.5	9578.8	9641.7	9668.6	9704.5	9740.6
12.5°	9228.5	9277.9	9340.7	9399.1	9475.5	9520.4	9583.2	9641.7	9682.1	9731.5	9772.0
15°	9174.7	9233.0	9291.4	9349.8	9430.6	9484.5	9543.0	9610.2	9650.7	9704.5	9740.6
17.5°	9089.3	9152.2	9206.2	9260.0	9336.3	9399.1	9453.1	9516.0	9556.4	9601.4	9650.7
20°	8986.0	9044.4	9102.8	9147.8	9224.1	9277.9	9336.3	9394.7	9426.1	9435.2	9511.5
22.5°	8855.9	8896.2	8941.1	9013.0	9057.9	9107.3	9161.3	9215.0	9246.5	9296.0	9322.8
25°	8640.2	8680.7	8730.0	8761.4	8815.4	8855.9	8909.7	8968.1	8986.0	9022.1	9048.9
27.5°	8339.4	8361.8	8384.3	8411.2	8442.6	8465.1	8496.6	8523.5	8541.5	8559.4	8577.3
30°	7863.3	7863.3	7863.3	7845.3	7858.8	7872.3	7876.8	7872.3	7872.3	7867.9	7867.9
32.5°	7234.6	7198.8	7158.3	7122.4	7108.9	7091.0	7081.9	7068.4	7046.1	7032.6	7037.0
35°	6385.8	6305.0	6255.7	6210.8	6174.9	6147.9	6134.4	6120.9	6116.5	6098.6	6080.5
37.5°	5326.1	5267.7	5231.8	5204.8	5173.4	5146.4	5150.9	5155.5	5168.8	5159.9	5164.4
40°	4203.4	4189.9	4203.4	4171.9	4162.9	4171.9	4194.3	4225.9	4243.8	4261.8	4293.2
42.5°	3197.4	3219.8	3251.4	3251.4	3264.7	3282.8	3309.6	3359.2	3386.0	3417.4	3453.4
45°	2407.0	2434.0	2474.5	2487.8	2496.9	2519.2	2550.9	2591.1	2609.1	2636.1	2667.5
47.5°	1854.7	1872.7	1895.0	1917.6	1939.9	1949.0	1980.4	1980.4	2003.0	2020.9	2029.8
50°	1446.0	1464.0	1481.9	1495.4	1504.4	1517.9	1526.8	1540.3	1544.7	1553.8	1558.2
52.5°	1131.6	1154.2	1154.2	1163.0	1176.5	1190.0	1185.6	1190.0	1194.5	1194.5	1208.0
55°	884.7	884.7	898.2	898.2	907.2	902.6	907.2	907.2	907.2	907.2	911.7
57.5°	660.1	664.7	678.2	669.1	664.7	673.6	664.7	673.6	669.1	678.2	664.7
60°	507.4	507.4	512.0	512.0	516.5	516.5	516.5	512.0	512.0	507.4	507.4
62.5°	381.7	386.1	390.8	386.1	386.1	386.1	381.7	381.7	377.3	372.6	372.6
65°	256.0	251.6	260.4	251.6	256.0	256.0	251.6	256.0	242.5	247.0	242.5
67.5°	184.1	179.7	175.2	179.7	175.2	170.6	170.6	175.2	179.7	166.2	166.2
70°	121.3	125.7	121.3	125.7	130.3	130.3	125.7	121.3	125.7	116.8	121.3
72.5°	76.3	76.3	76.3	76.3	76.3	80.8	80.8	80.8	71.9	71.9	67.3
75°	35.9	49.4	40.5	35.9	49.4	49.4	44.9	44.9	40.5	40.5	40.5
77.5°	35.9	27.0	27.0	27.0	27.0	27.0	27.0	27.0	22.4	27.0	22.4
80°	17.9	17.9	17.9	13.5	17.9	17.9	22.4	17.9	17.9	13.5	22.4
82.5°	9.1	9.1	9.1	0.0	4.4	9.1	9.1	4.4	9.1	9.1	4.4
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: P248665

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1
2.5°	9300.4	9296.0	9300.4	9304.9	9300.4	9296.0	9300.4	9304.9	9286.9	9282.5	9291.4
5°	9498.0	9498.0	9506.9	9511.5	9506.9	9498.0	9498.0	9480.1	9466.6	9453.1	9448.7
7.5°	9668.6	9677.7	9686.6	9691.0	9686.6	9677.7	9668.6	9641.7	9614.7	9592.3	9574.4
10°	9772.0	9785.5	9803.4	9812.3	9803.4	9785.5	9772.0	9740.6	9704.5	9668.6	9641.7
12.5°	9816.9	9830.4	9852.8	9848.3	9852.8	9830.4	9816.9	9772.0	9731.5	9682.1	9641.7
15°	9785.5	9803.4	9825.8	9834.8	9825.8	9803.4	9785.5	9740.6	9704.5	9650.7	9610.2
17.5°	9686.6	9713.6	9727.1	9740.6	9727.1	9713.6	9686.6	9650.7	9601.4	9556.4	9516.0
20°	9551.8	9569.9	9587.9	9592.3	9587.9	9569.9	9551.8	9511.5	9435.2	9426.1	9394.7
22.5°	9358.8	9372.3	9412.6	9399.1	9412.6	9372.3	9358.8	9322.8	9296.0	9246.5	9215.0
25°	9080.3	9093.8	9098.4	9102.8	9098.4	9093.8	9080.3	9048.9	9022.1	8986.0	8968.1
27.5°	8599.9	8599.9	8608.8	8613.4	8608.8	8599.9	8599.9	8577.3	8559.4	8541.5	8523.5
30°	7872.3	7872.3	7872.3	7894.9	7872.3	7872.3	7872.3	7867.9	7867.9	7872.3	7872.3
32.5°	7032.6	7023.5	7014.7	7023.5	7014.7	7023.5	7032.6	7037.0	7032.6	7046.1	7068.4
35°	6080.5	6076.0	6089.5	6071.6	6089.5	6076.0	6080.5	6080.5	6098.6	6116.5	6120.9
37.5°	5168.8	5159.9	5177.9	5159.9	5177.9	5159.9	5168.8	5164.4	5159.9	5168.8	5155.5
40°	4302.2	4311.1	4311.1	4347.2	4311.1	4311.1	4302.2	4293.2	4261.8	4243.8	4225.9
42.5°	3471.4	3498.4	3489.3	3516.3	3489.3	3498.4	3471.4	3453.4	3417.4	3386.0	3359.2
45°	2685.4	2703.5	2703.5	2712.4	2703.5	2703.5	2685.4	2667.5	2636.1	2609.1	2591.1
47.5°	2061.2	2061.2	2061.2	2065.8	2061.2	2061.2	2061.2	2029.8	2020.9	2003.0	1980.4
50°	1567.3	1571.7	1576.4	1580.8	1576.4	1571.7	1567.3	1558.2	1553.8	1544.7	1540.3
52.5°	1203.5	1208.0	1199.1	1208.0	1199.1	1208.0	1203.5	1208.0	1194.5	1194.5	1190.0
55°	911.7	907.2	911.7	916.1	911.7	907.2	911.7	911.7	907.2	907.2	907.2
57.5°	669.1	660.1	660.1	660.1	660.1	660.1	669.1	664.7	678.2	669.1	673.6
60°	498.5	503.0	503.0	507.4	503.0	503.0	498.5	507.4	507.4	512.0	512.0
62.5°	368.2	381.7	372.6	381.7	372.6	381.7	368.2	372.6	372.6	377.3	381.7
65°	238.1	238.1	238.1	242.5	238.1	238.1	238.1	242.5	247.0	242.5	256.0
67.5°	161.7	166.2	175.2	170.6	175.2	166.2	161.7	166.2	166.2	179.7	175.2
70°	130.3	116.8	116.8	130.3	116.8	116.8	130.3	121.3	116.8	125.7	121.3
72.5°	76.3	67.3	76.3	76.3	76.3	67.3	76.3	67.3	71.9	71.9	80.8
75°	40.5	35.9	31.4	44.9	31.4	35.9	40.5	40.5	40.5	40.5	44.9
77.5°	27.0	22.4	31.4	31.4	31.4	22.4	27.0	22.4	27.0	22.4	27.0
80°	13.5	17.9	13.5	22.4	13.5	17.9	13.5	22.4	13.5	17.9	17.9
82.5°	4.4	9.1	9.1	9.1	9.1	9.1	4.4	4.4	9.1	9.1	4.4
85°	0.0	9.1	4.4	4.4	4.4	9.1	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	0.0	0.0	4.4	0.0	0.0	4.4	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: P248665

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1
2.5°	9291.4	9277.9	9282.5	9255.5	9255.5	9246.5	9251.1	9228.5	9219.7	9210.6	9224.1
5°	9426.1	9403.8	9385.7	9345.4	9322.8	9296.0	9282.5	9246.5	9215.0	9188.1	9183.6
7.5°	9533.9	9484.5	9453.1	9399.1	9358.8	9327.4	9282.5	9233.0	9192.7	9156.6	9129.8
10°	9578.8	9529.5	9480.1	9412.6	9367.7	9309.3	9264.4	9201.5	9147.8	9098.4	9066.8
12.5°	9583.2	9520.4	9475.5	9399.1	9340.7	9277.9	9228.5	9156.6	9093.8	9044.4	8995.1
15°	9543.0	9484.5	9430.6	9349.8	9291.4	9233.0	9174.7	9098.4	9040.0	8981.6	8945.7
17.5°	9453.1	9399.1	9336.3	9260.0	9206.2	9152.2	9089.3	9026.5	8959.0	8896.2	8851.3
20°	9336.3	9277.9	9224.1	9147.8	9102.8	9044.4	8986.0	8918.7	8864.8	8801.9	8752.6
22.5°	9161.3	9107.3	9057.9	9013.0	8941.1	8896.2	8855.9	8779.5	8725.6	8667.2	8613.4
25°	8909.7	8855.9	8815.4	8761.4	8730.0	8680.7	8640.2	8572.9	8523.5	8469.6	8424.6
27.5°	8496.6	8465.1	8442.6	8411.2	8384.3	8361.8	8339.4	8285.5	8249.6	8200.2	8155.3
30°	7876.8	7872.3	7858.8	7845.3	7863.3	7863.3	7863.3	7854.4	7823.0	7786.9	7755.5
32.5°	7081.9	7091.0	7108.9	7122.4	7158.3	7198.8	7234.6	7252.5	7252.5	7230.2	7216.7
35°	6134.4	6147.9	6174.9	6210.8	6255.7	6305.0	6385.8	6403.9	6417.2	6417.2	6399.3
37.5°	5150.9	5146.4	5173.4	5204.8	5231.8	5267.7	5326.1	5339.6	5362.0	5353.1	5335.0
40°	4194.3	4171.9	4162.9	4171.9	4203.4	4189.9	4203.4	4194.3	4194.3	4162.9	4162.9
42.5°	3309.6	3282.8	3264.7	3251.4	3251.4	3219.8	3197.4	3175.1	3161.6	3139.0	3134.6
45°	2550.9	2519.2	2496.9	2487.8	2474.5	2434.0	2407.0	2380.1	2348.6	2339.8	2344.2
47.5°	1980.4	1949.0	1939.9	1917.6	1895.0	1872.7	1854.7	1823.3	1818.7	1800.8	1818.7
50°	1526.8	1517.9	1504.4	1495.4	1481.9	1464.0	1446.0	1428.1	1419.0	1419.0	1423.5
52.5°	1185.6	1190.0	1176.5	1163.0	1154.2	1154.2	1131.6	1127.2	1127.2	1109.3	1127.2
55°	907.2	902.6	907.2	898.2	898.2	884.7	884.7	871.2	871.2	857.7	866.7
57.5°	664.7	673.6	664.7	669.1	678.2	664.7	660.1	646.6	655.6	646.6	651.2
60°	516.5	516.5	516.5	512.0	512.0	507.4	507.4	503.0	503.0	493.9	503.0
62.5°	381.7	386.1	386.1	386.1	390.8	386.1	381.7	386.1	381.7	381.7	386.1
65°	251.6	256.0	256.0	251.6	260.4	251.6	256.0	260.4	264.9	260.4	264.9
67.5°	170.6	170.6	175.2	179.7	175.2	179.7	184.1	179.7	184.1	193.2	184.1
70°	125.7	130.3	130.3	125.7	121.3	125.7	121.3	134.8	134.8	134.8	143.6
72.5°	80.8	80.8	76.3	76.3	76.3	76.3	76.3	89.8	80.8	76.3	85.4
75°	44.9	49.4	49.4	35.9	40.5	49.4	35.9	40.5	54.0	44.9	54.0
77.5°	27.0	27.0	27.0	27.0	27.0	27.0	35.9	31.4	31.4	31.4	35.9
80°	22.4	17.9	17.9	13.5	17.9	17.9	17.9	27.0	22.4	22.4	27.0
82.5°	9.1	9.1	4.4	0.0	9.1	9.1	9.1	9.1	9.1	9.1	17.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	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: P248665

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1
2.5°	9188.1	9188.1	9183.6	9174.7	9156.6	9156.6	9152.2	9138.7	9129.8	9125.2	9125.2
5°	9143.1	9125.2	9107.3	9057.9	9057.9	9048.9	9022.1	9003.9	8995.1	8972.5	8963.7
7.5°	9102.8	9048.9	9017.4	8986.0	8945.7	8927.6	8896.2	8882.7	8851.3	8828.9	8815.4
10°	9003.9	8968.1	8927.6	8878.3	8846.8	8811.0	8774.9	8748.1	8707.6	8685.1	8667.2
12.5°	8936.7	8882.7	8846.8	8792.9	8739.1	8707.6	8658.3	8626.9	8586.4	8541.5	8514.5
15°	8873.8	8815.4	8766.1	8707.6	8649.2	8613.4	8555.0	8519.1	8460.7	8415.8	8384.3
17.5°	8779.5	8730.0	8676.2	8604.3	8550.5	8505.6	8442.6	8397.8	8343.9	8285.5	8254.0
20°	8680.7	8622.2	8568.5	8496.6	8442.6	8388.8	8325.9	8276.6	8213.6	8159.8	8123.9
22.5°	8550.5	8483.1	8438.1	8366.2	8303.4	8245.2	8186.8	8128.3	8069.9	8025.0	7984.5
25°	8361.8	8289.9	8240.5	8182.1	8123.9	8079.0	8007.1	7971.2	7912.8	7872.3	7831.9
27.5°	8092.3	8038.5	7993.6	7935.2	7885.8	7850.0	7796.0	7760.1	7710.6	7674.7	7643.3
30°	7697.3	7652.4	7611.9	7553.5	7517.6	7486.2	7436.7	7405.2	7369.4	7328.9	7320.0
32.5°	7167.3	7131.3	7091.0	7050.5	7023.5	7005.6	6965.1	6947.2	6911.3	6888.8	6866.4
35°	6367.9	6336.5	6314.1	6296.2	6287.1	6291.5	6282.7	6300.6	6309.5	6305.0	6309.5
37.5°	5321.7	5303.6	5312.6	5326.1	5371.0	5429.4	5483.2	5564.0	5618.0	5671.9	5721.3
40°	4154.0	4167.5	4203.4	4284.1	4401.0	4531.3	4652.5	4805.2	4957.9	5065.7	5164.4
42.5°	3134.6	3175.1	3264.7	3381.5	3556.8	3749.8	3938.5	4162.9	4347.2	4526.7	4652.5
45°	2357.7	2411.5	2528.3	2690.0	2883.0	3107.6	3345.7	3597.1	3817.2	4001.3	4140.5
47.5°	1836.8	1886.2	2003.0	2173.6	2411.5	2645.1	2892.1	3152.5	3381.5	3561.2	3682.5
50°	1450.5	1513.3	1616.6	1796.3	2034.4	2281.3	2537.4	2793.2	3008.9	3161.6	3269.3
52.5°	1140.7	1199.1	1297.8	1486.5	1729.0	1976.0	2213.9	2465.5	2654.0	2802.2	2874.1
55°	884.7	938.6	1041.8	1199.1	1428.1	1670.6	1908.5	2124.2	2299.3	2407.0	2474.5
57.5°	673.6	714.1	786.0	943.1	1149.7	1374.1	1576.4	1791.9	1926.6	2003.0	2047.7
60°	512.0	543.4	619.8	741.0	929.6	1122.7	1293.4	1455.1	1562.9	1625.7	1670.6
62.5°	386.1	422.2	476.0	579.3	722.9	880.2	1023.9	1145.1	1234.9	1275.4	1306.8
65°	264.9	291.9	332.3	413.1	534.4	646.6	759.0	848.8	907.2	952.1	970.1
67.5°	197.6	215.5	238.1	300.9	386.1	476.0	552.3	615.2	678.2	696.1	727.5
70°	148.2	161.7	184.1	229.0	278.4	341.2	404.3	440.1	485.0	516.5	525.5
72.5°	94.3	98.7	121.3	148.2	188.5	229.0	269.5	300.9	327.9	345.8	354.7
75°	54.0	80.8	80.8	107.8	134.8	152.7	179.7	202.0	215.5	229.0	229.0
77.5°	35.9	49.4	54.0	67.3	80.8	103.3	125.7	139.2	152.7	157.1	157.1
80°	31.4	35.9	35.9	49.4	58.4	76.3	89.8	94.3	103.3	107.8	116.8
82.5°	13.5	17.9	22.4	35.9	40.5	40.5	54.0	58.4	67.3	71.9	71.9
85°	4.4	9.1	9.1	13.5	22.4	27.0	31.4	35.9	40.5	40.5	44.9
87.5°	4.4	4.4	0.0	4.4	9.1	9.1	17.9	17.9	17.9	27.0	27.0
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: P248665

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1	9197.1
2.5°	9116.3	9120.8	9102.8	9098.4	9089.3	9093.8	9102.8
5°	8950.2	8954.6	8936.7	8918.7	8918.7	8914.1	8918.7
7.5°	8792.9	8797.5	8770.5	8761.4	8743.5	8748.1	8748.1
10°	8635.7	8635.7	8595.4	8590.8	8577.3	8572.9	8572.9
12.5°	8483.1	8469.6	8438.1	8420.2	8429.3	8402.3	8402.3
15°	8348.3	8325.9	8285.5	8272.0	8249.6	8240.5	8240.5
17.5°	8209.1	8191.2	8155.3	8128.3	8101.4	8096.9	8101.4
20°	8074.4	8056.4	8011.5	7993.6	7971.2	7971.2	7962.2
22.5°	7939.6	7921.7	7881.4	7867.9	7836.5	7836.5	7840.9
25°	7800.4	7786.9	7742.0	7733.1	7728.7	7710.6	7719.6
27.5°	7611.9	7602.8	7567.0	7553.5	7535.5	7531.1	7540.0
30°	7266.0	7252.5	7225.7	7212.3	7180.8	7185.3	7194.1
32.5°	6835.0	6817.1	6781.0	6767.5	6740.7	6731.7	6736.1
35°	6296.2	6282.7	6251.2	6251.2	6224.3	6215.2	6224.3
37.5°	5748.3	5761.6	5748.3	5761.6	5748.3	5743.7	5748.3
40°	5231.8	5281.2	5290.1	5339.6	5321.7	5348.5	5344.0
42.5°	4737.7	4818.5	4850.1	4890.4	4881.6	4899.5	4913.0
45°	4239.2	4306.7	4338.1	4365.1	4369.5	4378.6	4383.0
47.5°	3767.7	3821.7	3826.1	3857.5	3853.1	3853.1	3866.6
50°	3327.8	3363.6	3372.5	3395.0	3377.1	3368.0	3372.5
52.5°	2919.1	2954.9	2945.9	2954.9	2932.6	2923.5	2927.9
55°	2501.3	2519.2	2519.2	2519.2	2492.4	2492.4	2492.4
57.5°	2074.7	2079.3	2070.3	2074.7	2070.3	2043.3	2038.8
60°	1684.1	1684.1	1679.5	1684.1	1670.6	1657.1	1657.1
62.5°	1315.7	1324.8	1342.7	1324.8	1315.7	1324.8	1311.3
65°	983.6	1001.5	996.9	1005.9	1001.5	1001.5	992.4
67.5°	741.0	745.5	749.9	754.5	754.5	754.5	754.5
70°	543.4	556.9	552.3	552.3	552.3	552.3	579.3
72.5°	363.8	381.7	377.3	386.1	386.1	395.2	386.1
75°	247.0	264.9	256.0	269.5	264.9	256.0	278.4
77.5°	166.2	175.2	179.7	184.1	179.7	175.2	179.7
80°	116.8	125.7	121.3	125.7	125.7	125.7	130.3
82.5°	71.9	85.4	80.8	85.4	80.8	85.4	85.4
85°	49.4	54.0	44.9	54.0	49.4	49.4	58.4
87.5°	31.4	27.0	27.0	31.4	27.0	31.4	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)