

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: P248656

Luminaire Tested: **LD8B150D010 ER8B150827 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248656
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 ER8B150827 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15113.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

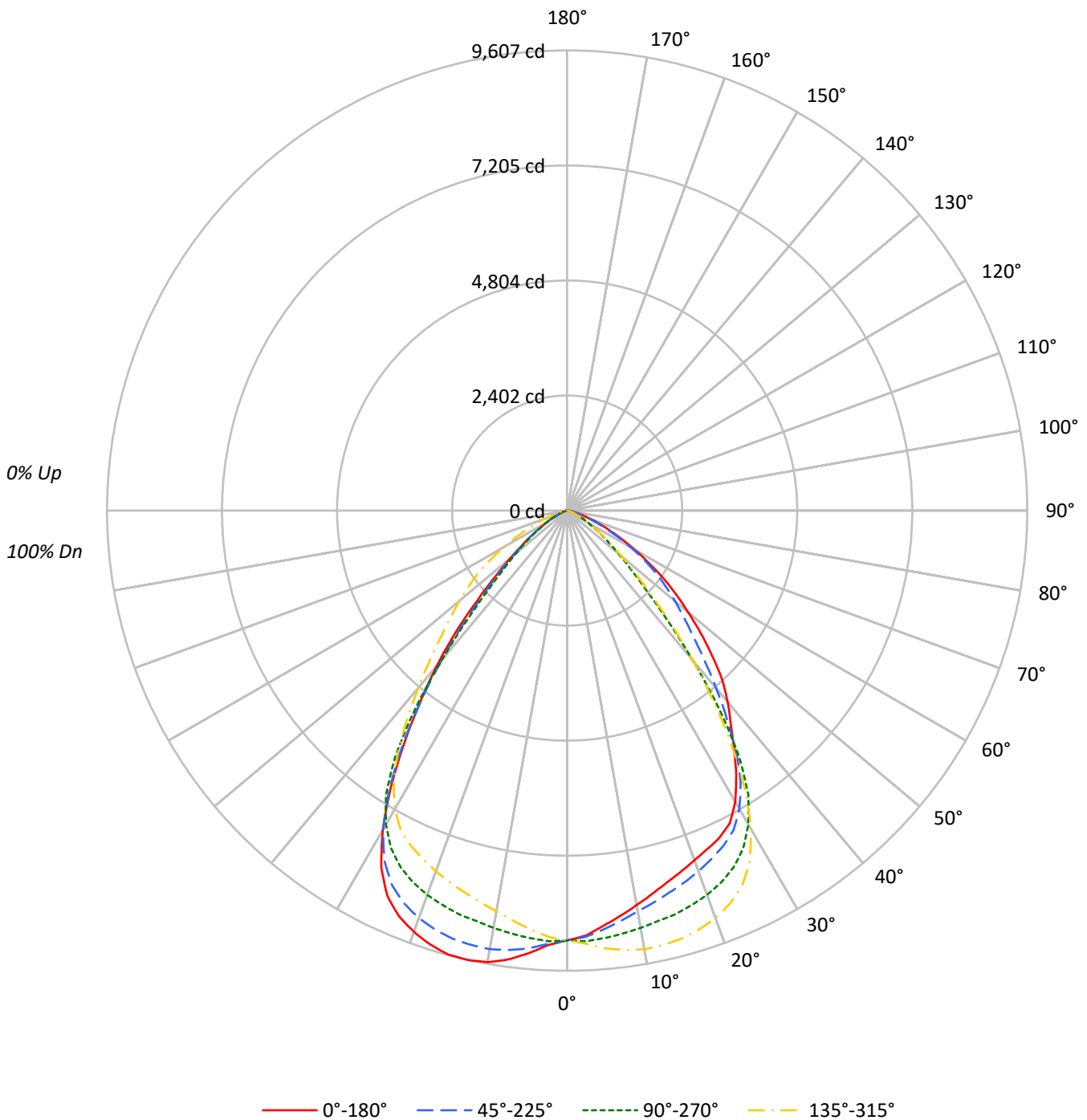
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	276666	276666	276666	276666
5°	269316	277315	287217	277315
10°	261869	276955	299725	276955
15°	256635	278598	306286	278598
20°	254890	280190	307073	280190
25°	256229	279627	302137	279627
30°	249891	269393	274232	269393
35°	228576	235005	222967	235005
40°	209856	163471	170709	163471
45°	186464	99725	115390	99725
50°	157830	66620	73979	66620
55°	130721	45455	48047	45455
60°	99700	30263	30528	30263
65°	70637	18854	17264	18854
70°	50949	12631	11459	12631
75°	32359	6279	5218	6279
80°	22570	4670	3871	4670
85°	20167	0	1521	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.0	5.7
10°-20°	2473.0	16.4
20°-30°	3744.6	24.8
30°-40°	3753.0	24.8
40°-50°	2356.7	15.6
50°-60°	1255.9	8.3
60°-70°	516.4	3.4
70°-80°	136.4	0.9
80°-90°	23.1	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°	7071.5	46.8
0°-40°	10824.5	71.6
0°-60°	14437.0	95.5
0°-90°	15113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15113.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8972	8972	8972	8972	8972	
5°	8700	8959	9279	8959	8700	820
15°	8039	8727	9594	8727	8039	2274
25°	7531	8218	8880	8218	7531	3454
35°	6072	6243	5923	6243	6072	3804
45°	4276	2287	2646	2287	4276	3288
55°	2432	846	894	846	2432	2168
65°	968	258	237	258	968	1004
75°	272	53	44	53	272	308
85°	57	0	4	0	57	63
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°	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1
2.5°	8880.1	8871.3	8867.0	8875.8	8880.1	8897.6	8893.3	8902.0	8902.0	8906.5	8915.1
5°	8700.5	8696.0	8700.5	8700.5	8718.0	8735.5	8731.2	8744.4	8753.0	8775.0	8783.7
7.5°	8534.1	8534.1	8529.6	8547.1	8555.9	8582.3	8577.7	8599.7	8612.9	8634.7	8665.4
10°	8363.2	8363.2	8367.5	8380.7	8385.2	8424.5	8424.5	8455.1	8472.6	8494.6	8534.1
12.5°	8196.7	8196.7	8223.1	8214.2	8231.7	8262.4	8275.5	8306.2	8332.5	8376.3	8415.8
15°	8038.9	8038.9	8047.8	8069.6	8082.8	8122.3	8144.1	8179.2	8209.9	8253.7	8310.7
17.5°	7903.2	7898.8	7903.2	7929.5	7955.8	7990.8	8008.3	8052.1	8082.8	8139.7	8192.4
20°	7767.4	7776.2	7776.2	7798.0	7815.5	7859.3	7876.8	7925.2	7960.1	8012.6	8074.1
22.5°	7649.1	7644.8	7644.8	7675.4	7688.6	7727.9	7745.4	7789.2	7828.7	7872.5	7929.5
25°	7530.8	7522.0	7539.6	7544.0	7552.6	7596.4	7609.6	7640.3	7679.7	7719.2	7776.2
27.5°	7355.5	7346.9	7351.2	7368.7	7381.8	7416.8	7425.7	7456.3	7487.0	7522.0	7570.3
30°	7018.1	7009.5	7005.2	7035.8	7049.0	7075.1	7088.3	7140.9	7149.6	7189.1	7224.1
32.5°	6571.3	6567.0	6575.8	6602.0	6615.1	6650.3	6667.8	6698.4	6720.2	6742.2	6777.2
35°	6072.0	6063.2	6072.0	6098.3	6098.3	6129.0	6142.1	6155.1	6150.8	6155.1	6146.5
37.5°	5607.7	5603.2	5607.7	5620.6	5607.7	5620.6	5607.7	5581.3	5533.2	5480.5	5427.9
40°	5213.3	5217.6	5191.5	5209.0	5160.6	5152.0	5103.8	5038.0	4941.7	4836.6	4687.7
42.5°	4792.8	4779.6	4762.1	4770.8	4731.5	4700.6	4621.8	4538.7	4415.9	4240.8	4061.0
45°	4275.8	4271.5	4262.6	4258.3	4232.0	4201.3	4135.5	4039.2	3903.4	3723.8	3509.1
47.5°	3772.0	3758.8	3758.8	3763.1	3732.5	3728.2	3675.5	3592.4	3474.1	3298.8	3075.4
50°	3290.0	3285.7	3294.5	3312.0	3290.0	3281.3	3246.3	3189.4	3084.2	2935.3	2724.8
52.5°	2856.3	2852.0	2860.8	2882.6	2873.8	2882.6	2847.6	2803.8	2733.7	2589.1	2405.1
55°	2431.5	2431.5	2431.5	2457.6	2457.6	2457.6	2440.1	2414.0	2348.2	2243.0	2072.3
57.5°	1989.0	1993.3	2019.6	2023.9	2019.6	2028.4	2023.9	1997.6	1954.0	1879.5	1748.0
60°	1616.6	1616.6	1629.8	1642.9	1638.4	1642.9	1642.9	1629.8	1585.9	1524.6	1419.5
62.5°	1279.2	1292.4	1283.5	1292.4	1309.9	1292.4	1283.5	1274.9	1244.2	1204.7	1117.1
65°	968.1	977.0	977.0	981.3	972.5	977.0	959.5	946.3	928.8	885.0	828.0
67.5°	736.1	736.1	736.1	736.1	731.6	727.2	722.9	709.7	679.1	661.6	600.1
70°	565.1	538.8	538.8	538.8	538.8	543.3	530.1	512.7	503.8	473.2	429.3
72.5°	376.7	385.5	376.7	376.7	368.0	372.4	354.9	346.0	337.4	319.9	293.6
75°	271.6	249.7	258.4	262.9	249.7	258.4	240.9	223.4	223.4	210.3	197.1
77.5°	175.3	170.9	175.3	179.6	175.3	170.9	162.1	153.3	153.3	148.9	135.8
80°	127.1	122.6	122.6	122.6	118.3	122.6	114.0	114.0	105.1	100.8	92.0
82.5°	83.3	83.3	78.8	83.3	78.8	83.3	70.1	70.1	70.1	65.6	57.0
85°	57.0	48.1	48.1	52.7	43.8	52.7	48.1	43.8	39.5	39.5	35.0
87.5°	26.3	30.7	26.3	30.7	26.3	26.3	30.7	26.3	26.3	17.5	17.5
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°	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1
2.5°	8928.3	8932.6	8932.6	8950.3	8958.9	8963.3	8963.3	8998.4	8985.3	8994.1	9002.8
5°	8801.3	8827.5	8836.3	8836.3	8884.5	8902.0	8919.5	8958.9	8963.3	8989.6	9020.3
7.5°	8678.5	8709.2	8726.9	8766.2	8796.8	8827.5	8880.1	8906.5	8932.6	8967.8	9007.1
10°	8560.3	8595.4	8630.4	8661.1	8709.2	8748.7	8783.7	8845.0	8875.8	8924.0	8976.4
12.5°	8446.5	8494.6	8525.3	8577.7	8630.4	8665.4	8718.0	8775.0	8823.2	8871.3	8932.6
15°	8345.7	8402.7	8437.6	8494.6	8551.6	8599.7	8656.7	8726.9	8761.9	8818.8	8875.8
17.5°	8236.0	8297.5	8341.3	8393.8	8464.0	8516.4	8564.8	8634.7	8678.5	8739.9	8805.7
20°	8122.3	8183.6	8236.0	8288.7	8358.8	8411.3	8468.3	8538.4	8586.6	8647.9	8700.5
22.5°	7986.5	8043.5	8100.3	8161.6	8231.7	8275.5	8341.3	8402.7	8455.1	8512.1	8564.8
25°	7811.2	7881.3	7925.2	7982.0	8038.9	8087.1	8157.2	8218.5	8262.4	8315.0	8363.2
27.5°	7605.3	7657.9	7692.9	7741.1	7798.0	7841.9	7894.3	7955.8	7999.6	8047.8	8082.8
30°	7254.7	7303.0	7333.7	7368.7	7425.7	7465.2	7509.0	7565.8	7596.4	7631.6	7662.2
32.5°	6794.7	6834.2	6851.7	6878.0	6917.5	6956.8	6992.0	7040.1	7053.3	7075.1	7075.1
35°	6129.0	6137.6	6133.3	6142.1	6159.6	6181.4	6212.1	6242.8	6260.2	6260.2	6247.3
37.5°	5349.1	5296.6	5239.6	5195.8	5182.6	5173.8	5191.5	5204.5	5222.1	5230.8	5209.0
40°	4538.7	4420.4	4293.3	4179.3	4100.5	4065.5	4052.4	4061.0	4061.0	4091.7	4091.7
42.5°	3842.1	3658.0	3469.8	3298.8	3184.9	3097.4	3057.9	3057.9	3062.2	3084.2	3097.4
45°	3263.8	3031.6	2812.5	2624.2	2466.4	2352.5	2300.0	2286.8	2282.5	2291.2	2321.8
47.5°	2821.3	2580.4	2352.5	2120.4	1954.0	1840.0	1791.9	1774.2	1756.7	1774.2	1778.7
50°	2475.3	2225.5	1984.6	1752.4	1577.1	1476.3	1415.0	1388.7	1384.3	1384.3	1393.2
52.5°	2159.7	1927.6	1686.7	1450.2	1266.0	1169.7	1112.8	1099.6	1082.1	1099.6	1099.6
55°	1861.8	1629.8	1393.2	1169.7	1016.3	915.7	863.0	845.5	836.7	849.9	849.9
57.5°	1537.8	1340.5	1121.6	920.0	766.7	696.6	657.1	635.3	630.8	639.6	630.8
60°	1261.7	1095.3	906.8	722.9	604.6	530.1	499.5	490.7	481.8	490.7	490.7
62.5°	998.8	858.7	705.2	565.1	464.3	411.9	376.7	376.7	372.4	372.4	376.7
65°	740.4	630.8	521.3	403.0	324.2	284.7	258.4	258.4	254.1	258.4	254.1
67.5°	538.8	464.3	376.7	293.6	232.3	210.3	192.8	179.6	188.4	179.6	175.3
70°	394.4	332.9	271.6	223.4	179.6	157.8	144.6	140.1	131.5	131.5	131.5
72.5°	262.9	223.4	183.9	144.6	118.3	96.3	92.0	83.3	74.5	78.8	87.6
75°	175.3	148.9	131.5	105.1	78.8	78.8	52.7	52.7	43.8	52.7	39.5
77.5°	122.6	100.8	78.8	65.6	52.7	48.1	35.0	35.0	30.7	30.7	30.7
80°	87.6	74.5	57.0	48.1	35.0	35.0	30.7	26.3	21.8	21.8	26.3
82.5°	52.7	39.5	39.5	35.0	21.8	17.5	13.2	17.5	8.8	8.8	8.8
85°	30.7	26.3	21.8	13.2	8.8	8.8	4.3	0.0	4.3	4.3	0.0
87.5°	17.5	8.8	8.8	4.3	0.0	4.3	4.3	0.0	0.0	0.0	8.8
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°	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1
2.5°	9024.8	9020.3	9029.1	9029.1	9055.4	9050.9	9064.1	9064.1	9055.4	9059.7	9077.2
5°	9055.4	9068.6	9094.7	9116.7	9156.0	9173.7	9195.5	9217.5	9221.9	9235.0	9248.2
7.5°	9055.4	9099.2	9129.9	9169.2	9221.9	9252.5	9300.7	9340.1	9357.6	9379.5	9405.8
10°	9037.7	9081.6	9138.5	9182.4	9248.2	9296.3	9344.5	9405.8	9432.1	9467.1	9502.3
12.5°	9002.8	9050.9	9112.2	9169.2	9243.7	9287.5	9348.8	9405.8	9445.3	9493.4	9532.9
15°	8950.3	9007.1	9064.1	9121.1	9199.9	9252.5	9309.5	9375.1	9414.6	9467.1	9502.3
17.5°	8867.0	8928.3	8980.9	9033.4	9107.9	9169.2	9221.9	9283.2	9322.7	9366.5	9414.6
20°	8766.2	8823.2	8880.1	8924.0	8998.4	9050.9	9107.9	9164.9	9195.5	9204.4	9278.8
22.5°	8639.2	8678.5	8722.4	8792.5	8836.3	8884.5	8937.1	8989.6	9020.3	9068.6	9094.7
25°	8428.8	8468.3	8516.4	8547.1	8599.7	8639.2	8691.7	8748.7	8766.2	8801.3	8827.5
27.5°	8135.4	8157.2	8179.2	8205.4	8236.0	8258.0	8288.7	8315.0	8332.5	8350.0	8367.5
30°	7670.9	7670.9	7670.9	7653.4	7666.6	7679.7	7684.1	7679.7	7679.7	7675.4	7675.4
32.5°	7057.6	7022.6	6983.2	6948.2	6935.0	6917.5	6908.7	6895.5	6873.7	6860.5	6864.9
35°	6229.6	6150.8	6102.6	6058.8	6023.8	5997.5	5984.4	5971.2	5966.9	5949.4	5931.7
37.5°	5195.8	5138.8	5103.8	5077.5	5046.9	5020.5	5024.9	5029.4	5042.3	5033.7	5038.0
40°	4100.5	4087.4	4100.5	4069.9	4061.0	4069.9	4091.7	4122.5	4140.0	4157.5	4188.2
42.5°	3119.2	3141.0	3171.9	3171.9	3184.9	3202.5	3228.7	3277.0	3303.1	3333.8	3369.0
45°	2348.2	2374.5	2414.0	2427.0	2435.8	2457.6	2488.4	2527.8	2545.2	2571.6	2602.2
47.5°	1809.4	1826.8	1848.7	1870.7	1892.5	1901.3	1932.0	1932.0	1954.0	1971.5	1980.1
50°	1410.7	1428.2	1445.6	1458.8	1467.6	1480.8	1489.5	1502.6	1507.0	1515.8	1520.1
52.5°	1103.9	1125.9	1125.9	1134.6	1147.8	1160.9	1156.6	1160.9	1165.2	1165.2	1178.4
55°	863.0	863.0	876.2	876.2	885.0	880.5	885.0	885.0	885.0	885.0	889.3
57.5°	643.9	648.4	661.6	652.8	648.4	657.1	648.4	657.1	652.8	661.6	648.4
60°	495.0	495.0	499.5	499.5	503.8	503.8	503.8	499.5	499.5	495.0	495.0
62.5°	372.4	376.7	381.2	376.7	376.7	376.7	372.4	372.4	368.0	363.5	363.5
65°	249.7	245.4	254.1	245.4	249.7	249.7	245.4	249.7	236.6	240.9	236.6
67.5°	179.6	175.3	170.9	175.3	170.9	166.4	166.4	170.9	175.3	162.1	162.1
70°	118.3	122.6	118.3	122.6	127.1	127.1	122.6	118.3	122.6	114.0	118.3
72.5°	74.5	74.5	74.5	74.5	74.5	78.8	78.8	78.8	70.1	70.1	65.6
75°	35.0	48.1	39.5	35.0	48.1	48.1	43.8	43.8	39.5	39.5	39.5
77.5°	35.0	26.3	26.3	26.3	26.3	26.3	26.3	26.3	21.8	26.3	21.8
80°	17.5	17.5	17.5	13.2	17.5	17.5	21.8	17.5	17.5	13.2	21.8
82.5°	8.8	8.8	8.8	0.0	4.3	8.8	8.8	4.3	8.8	8.8	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: P248656

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1
2.5°	9072.9	9068.6	9072.9	9077.2	9072.9	9068.6	9072.9	9077.2	9059.7	9055.4	9064.1
5°	9265.7	9265.7	9274.3	9278.8	9274.3	9265.7	9265.7	9248.2	9235.0	9221.9	9217.5
7.5°	9432.1	9440.9	9449.6	9453.9	9449.6	9440.9	9432.1	9405.8	9379.5	9357.6	9340.1
10°	9532.9	9546.1	9563.6	9572.2	9563.6	9546.1	9532.9	9502.3	9467.1	9432.1	9405.8
12.5°	9576.7	9589.9	9611.7	9607.4	9611.7	9589.9	9576.7	9532.9	9493.4	9445.3	9405.8
15°	9546.1	9563.6	9585.4	9594.2	9585.4	9563.6	9546.1	9502.3	9467.1	9414.6	9375.1
17.5°	9449.6	9475.9	9489.1	9502.3	9489.1	9475.9	9449.6	9414.6	9366.5	9322.7	9283.2
20°	9318.1	9335.8	9353.3	9357.6	9353.3	9335.8	9318.1	9278.8	9204.4	9195.5	9164.9
22.5°	9129.9	9143.1	9182.4	9169.2	9182.4	9143.1	9129.9	9094.7	9068.6	9020.3	8989.6
25°	8858.1	8871.3	8875.8	8880.1	8875.8	8871.3	8858.1	8827.5	8801.3	8766.2	8748.7
27.5°	8389.5	8389.5	8398.1	8402.7	8398.1	8389.5	8389.5	8367.5	8350.0	8332.5	8315.0
30°	7679.7	7679.7	7679.7	7701.7	7679.7	7679.7	7679.7	7675.4	7675.4	7679.7	7679.7
32.5°	6860.5	6851.7	6843.0	6851.7	6843.0	6851.7	6860.5	6864.9	6860.5	6873.7	6895.5
35°	5931.7	5927.4	5940.5	5923.0	5940.5	5927.4	5931.7	5931.7	5949.4	5966.9	5971.2
37.5°	5042.3	5033.7	5051.2	5033.7	5051.2	5033.7	5042.3	5038.0	5033.7	5042.3	5029.4
40°	4197.0	4205.7	4205.7	4240.8	4205.7	4205.7	4197.0	4188.2	4157.5	4140.0	4122.5
42.5°	3386.5	3412.8	3403.9	3430.3	3403.9	3412.8	3386.5	3369.0	3333.8	3303.1	3277.0
45°	2619.7	2637.4	2637.4	2646.0	2637.4	2637.4	2619.7	2602.2	2571.6	2545.2	2527.8
47.5°	2010.8	2010.8	2010.8	2015.3	2010.8	2010.8	2010.8	1980.1	1971.5	1954.0	1932.0
50°	1529.0	1533.3	1537.8	1542.1	1537.8	1533.3	1529.0	1520.1	1515.8	1507.0	1502.6
52.5°	1174.1	1178.4	1169.7	1178.4	1169.7	1178.4	1174.1	1178.4	1165.2	1165.2	1160.9
55°	889.3	885.0	889.3	893.7	889.3	885.0	889.3	889.3	885.0	885.0	885.0
57.5°	652.8	643.9	643.9	643.9	643.9	643.9	652.8	648.4	661.6	652.8	657.1
60°	486.3	490.7	490.7	495.0	490.7	490.7	486.3	495.0	495.0	499.5	499.5
62.5°	359.2	372.4	363.5	372.4	363.5	372.4	359.2	363.5	363.5	368.0	372.4
65°	232.3	232.3	232.3	236.6	232.3	232.3	232.3	236.6	240.9	236.6	249.7
67.5°	157.8	162.1	170.9	166.4	170.9	162.1	157.8	162.1	162.1	175.3	170.9
70°	127.1	114.0	114.0	127.1	114.0	114.0	127.1	118.3	114.0	122.6	118.3
72.5°	74.5	65.6	74.5	74.5	74.5	65.6	74.5	65.6	70.1	70.1	78.8
75°	39.5	35.0	30.7	43.8	30.7	35.0	39.5	39.5	39.5	39.5	43.8
77.5°	26.3	21.8	30.7	30.7	30.7	21.8	26.3	21.8	26.3	21.8	26.3
80°	13.2	17.5	13.2	21.8	13.2	17.5	13.2	21.8	13.2	17.5	17.5
82.5°	4.3	8.8	8.8	8.8	8.8	8.8	4.3	4.3	8.8	8.8	4.3
85°	0.0	8.8	4.3	4.3	4.3	8.8	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: P248656

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1
2.5°	9064.1	9050.9	9055.4	9029.1	9029.1	9020.3	9024.8	9002.8	8994.1	8985.3	8998.4
5°	9195.5	9173.7	9156.0	9116.7	9094.7	9068.6	9055.4	9020.3	8989.6	8963.3	8958.9
7.5°	9300.7	9252.5	9221.9	9169.2	9129.9	9099.2	9055.4	9007.1	8967.8	8932.6	8906.5
10°	9344.5	9296.3	9248.2	9182.4	9138.5	9081.6	9037.7	8976.4	8924.0	8875.8	8845.0
12.5°	9348.8	9287.5	9243.7	9169.2	9112.2	9050.9	9002.8	8932.6	8871.3	8823.2	8775.0
15°	9309.5	9252.5	9199.9	9121.1	9064.1	9007.1	8950.3	8875.8	8818.8	8761.9	8726.9
17.5°	9221.9	9169.2	9107.9	9033.4	8980.9	8928.3	8867.0	8805.7	8739.9	8678.5	8634.7
20°	9107.9	9050.9	8998.4	8924.0	8880.1	8823.2	8766.2	8700.5	8647.9	8586.6	8538.4
22.5°	8937.1	8884.5	8836.3	8792.5	8722.4	8678.5	8639.2	8564.8	8512.1	8455.1	8402.7
25°	8691.7	8639.2	8599.7	8547.1	8516.4	8468.3	8428.8	8363.2	8315.0	8262.4	8218.5
27.5°	8288.7	8258.0	8236.0	8205.4	8179.2	8157.2	8135.4	8082.8	8047.8	7999.6	7955.8
30°	7684.1	7679.7	7666.6	7653.4	7670.9	7670.9	7670.9	7662.2	7631.6	7596.4	7565.8
32.5°	6908.7	6917.5	6935.0	6948.2	6983.2	7022.6	7057.6	7075.1	7075.1	7053.3	7040.1
35°	5984.4	5997.5	6023.8	6058.8	6102.6	6150.8	6229.6	6247.3	6260.2	6260.2	6242.8
37.5°	5024.9	5020.5	5046.9	5077.5	5103.8	5138.8	5195.8	5209.0	5230.8	5222.1	5204.5
40°	4091.7	4069.9	4061.0	4069.9	4100.5	4087.4	4100.5	4091.7	4091.7	4061.0	4061.0
42.5°	3228.7	3202.5	3184.9	3171.9	3171.9	3141.0	3119.2	3097.4	3084.2	3062.2	3057.9
45°	2488.4	2457.6	2435.8	2427.0	2414.0	2374.5	2348.2	2321.8	2291.2	2282.5	2286.8
47.5°	1932.0	1901.3	1892.5	1870.7	1848.7	1826.8	1809.4	1778.7	1774.2	1756.7	1774.2
50°	1489.5	1480.8	1467.6	1458.8	1445.6	1428.2	1410.7	1393.2	1384.3	1384.3	1388.7
52.5°	1156.6	1160.9	1147.8	1134.6	1125.9	1125.9	1103.9	1099.6	1099.6	1082.1	1099.6
55°	885.0	880.5	885.0	876.2	876.2	863.0	863.0	849.9	849.9	836.7	845.5
57.5°	648.4	657.1	648.4	652.8	661.6	648.4	643.9	630.8	639.6	630.8	635.3
60°	503.8	503.8	503.8	499.5	499.5	495.0	495.0	490.7	490.7	481.8	490.7
62.5°	372.4	376.7	376.7	376.7	381.2	376.7	372.4	376.7	372.4	372.4	376.7
65°	245.4	249.7	249.7	245.4	254.1	245.4	249.7	254.1	258.4	254.1	258.4
67.5°	166.4	166.4	170.9	175.3	170.9	175.3	179.6	175.3	179.6	188.4	179.6
70°	122.6	127.1	127.1	122.6	118.3	122.6	118.3	131.5	131.5	131.5	140.1
72.5°	78.8	78.8	74.5	74.5	74.5	74.5	74.5	87.6	78.8	74.5	83.3
75°	43.8	48.1	48.1	35.0	39.5	48.1	35.0	39.5	52.7	43.8	52.7
77.5°	26.3	26.3	26.3	26.3	26.3	26.3	35.0	30.7	30.7	30.7	35.0
80°	21.8	17.5	17.5	13.2	17.5	17.5	17.5	26.3	21.8	21.8	26.3
82.5°	8.8	8.8	4.3	0.0	8.8	8.8	8.8	8.8	8.8	8.8	17.5
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	8.8	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: P248656

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1
2.5°	8963.3	8963.3	8958.9	8950.3	8932.6	8932.6	8928.3	8915.1	8906.5	8902.0	8902.0
5°	8919.5	8902.0	8884.5	8836.3	8836.3	8827.5	8801.3	8783.7	8775.0	8753.0	8744.4
7.5°	8880.1	8827.5	8796.8	8766.2	8726.9	8709.2	8678.5	8665.4	8634.7	8612.9	8599.7
10°	8783.7	8748.7	8709.2	8661.1	8630.4	8595.4	8560.3	8534.1	8494.6	8472.6	8455.1
12.5°	8718.0	8665.4	8630.4	8577.7	8525.3	8494.6	8446.5	8415.8	8376.3	8332.5	8306.2
15°	8656.7	8599.7	8551.6	8494.6	8437.6	8402.7	8345.7	8310.7	8253.7	8209.9	8179.2
17.5°	8564.8	8516.4	8464.0	8393.8	8341.3	8297.5	8236.0	8192.4	8139.7	8082.8	8052.1
20°	8468.3	8411.3	8358.8	8288.7	8236.0	8183.6	8122.3	8074.1	8012.6	7960.1	7925.2
22.5°	8341.3	8275.5	8231.7	8161.6	8100.3	8043.5	7986.5	7929.5	7872.5	7828.7	7789.2
25°	8157.2	8087.1	8038.9	7982.0	7925.2	7881.3	7811.2	7776.2	7719.2	7679.7	7640.3
27.5°	7894.3	7841.9	7798.0	7741.1	7692.9	7657.9	7605.3	7570.3	7522.0	7487.0	7456.3
30°	7509.0	7465.2	7425.7	7368.7	7333.7	7303.0	7254.7	7224.1	7189.1	7149.6	7140.9
32.5°	6992.0	6956.8	6917.5	6878.0	6851.7	6834.2	6794.7	6777.2	6742.2	6720.2	6698.4
35°	6212.1	6181.4	6159.6	6142.1	6133.3	6137.6	6129.0	6146.5	6155.1	6150.8	6155.1
37.5°	5191.5	5173.8	5182.6	5195.8	5239.6	5296.6	5349.1	5427.9	5480.5	5533.2	5581.3
40°	4052.4	4065.5	4100.5	4179.3	4293.3	4420.4	4538.7	4687.7	4836.6	4941.7	5038.0
42.5°	3057.9	3097.4	3184.9	3298.8	3469.8	3658.0	3842.1	4061.0	4240.8	4415.9	4538.7
45°	2300.0	2352.5	2466.4	2624.2	2812.5	3031.6	3263.8	3509.1	3723.8	3903.4	4039.2
47.5°	1791.9	1840.0	1954.0	2120.4	2352.5	2580.4	2821.3	3075.4	3298.8	3474.1	3592.4
50°	1415.0	1476.3	1577.1	1752.4	1984.6	2225.5	2475.3	2724.8	2935.3	3084.2	3189.4
52.5°	1112.8	1169.7	1266.0	1450.2	1686.7	1927.6	2159.7	2405.1	2589.1	2733.7	2803.8
55°	863.0	915.7	1016.3	1169.7	1393.2	1629.8	1861.8	2072.3	2243.0	2348.2	2414.0
57.5°	657.1	696.6	766.7	920.0	1121.6	1340.5	1537.8	1748.0	1879.5	1954.0	1997.6
60°	499.5	530.1	604.6	722.9	906.8	1095.3	1261.7	1419.5	1524.6	1585.9	1629.8
62.5°	376.7	411.9	464.3	565.1	705.2	858.7	998.8	1117.1	1204.7	1244.2	1274.9
65°	258.4	284.7	324.2	403.0	521.3	630.8	740.4	828.0	885.0	928.8	946.3
67.5°	192.8	210.3	232.3	293.6	376.7	464.3	538.8	600.1	661.6	679.1	709.7
70°	144.6	157.8	179.6	223.4	271.6	332.9	394.4	429.3	473.2	503.8	512.7
72.5°	92.0	96.3	118.3	144.6	183.9	223.4	262.9	293.6	319.9	337.4	346.0
75°	52.7	78.8	78.8	105.1	131.5	148.9	175.3	197.1	210.3	223.4	223.4
77.5°	35.0	48.1	52.7	65.6	78.8	100.8	122.6	135.8	148.9	153.3	153.3
80°	30.7	35.0	35.0	48.1	57.0	74.5	87.6	92.0	100.8	105.1	114.0
82.5°	13.2	17.5	21.8	35.0	39.5	39.5	52.7	57.0	65.6	70.1	70.1
85°	4.3	8.8	8.8	13.2	21.8	26.3	30.7	35.0	39.5	39.5	43.8
87.5°	4.3	4.3	0.0	4.3	8.8	8.8	17.5	17.5	17.5	26.3	26.3
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: P248656

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1	8972.1
2.5°	8893.3	8897.6	8880.1	8875.8	8867.0	8871.3	8880.1
5°	8731.2	8735.5	8718.0	8700.5	8700.5	8696.0	8700.5
7.5°	8577.7	8582.3	8555.9	8547.1	8529.6	8534.1	8534.1
10°	8424.5	8424.5	8385.2	8380.7	8367.5	8363.2	8363.2
12.5°	8275.5	8262.4	8231.7	8214.2	8223.1	8196.7	8196.7
15°	8144.1	8122.3	8082.8	8069.6	8047.8	8038.9	8038.9
17.5°	8008.3	7990.8	7955.8	7929.5	7903.2	7898.8	7903.2
20°	7876.8	7859.3	7815.5	7798.0	7776.2	7776.2	7767.4
22.5°	7745.4	7727.9	7688.6	7675.4	7644.8	7644.8	7649.1
25°	7609.6	7596.4	7552.6	7544.0	7539.6	7522.0	7530.8
27.5°	7425.7	7416.8	7381.8	7368.7	7351.2	7346.9	7355.5
30°	7088.3	7075.1	7049.0	7035.8	7005.2	7009.5	7018.1
32.5°	6667.8	6650.3	6615.1	6602.0	6575.8	6567.0	6571.3
35°	6142.1	6129.0	6098.3	6098.3	6072.0	6063.2	6072.0
37.5°	5607.7	5620.6	5607.7	5620.6	5607.7	5603.2	5607.7
40°	5103.8	5152.0	5160.6	5209.0	5191.5	5217.6	5213.3
42.5°	4621.8	4700.6	4731.5	4770.8	4762.1	4779.6	4792.8
45°	4135.5	4201.3	4232.0	4258.3	4262.6	4271.5	4275.8
47.5°	3675.5	3728.2	3732.5	3763.1	3758.8	3758.8	3772.0
50°	3246.3	3281.3	3290.0	3312.0	3294.5	3285.7	3290.0
52.5°	2847.6	2882.6	2873.8	2882.6	2860.8	2852.0	2856.3
55°	2440.1	2457.6	2457.6	2457.6	2431.5	2431.5	2431.5
57.5°	2023.9	2028.4	2019.6	2023.9	2019.6	1993.3	1989.0
60°	1642.9	1642.9	1638.4	1642.9	1629.8	1616.6	1616.6
62.5°	1283.5	1292.4	1309.9	1292.4	1283.5	1292.4	1279.2
65°	959.5	977.0	972.5	981.3	977.0	977.0	968.1
67.5°	722.9	727.2	731.6	736.1	736.1	736.1	736.1
70°	530.1	543.3	538.8	538.8	538.8	538.8	565.1
72.5°	354.9	372.4	368.0	376.7	376.7	385.5	376.7
75°	240.9	258.4	249.7	262.9	258.4	249.7	271.6
77.5°	162.1	170.9	175.3	179.6	175.3	170.9	175.3
80°	114.0	122.6	118.3	122.6	122.6	122.6	127.1
82.5°	70.1	83.3	78.8	83.3	78.8	83.3	83.3
85°	48.1	52.7	43.8	52.7	48.1	48.1	57.0
87.5°	30.7	26.3	26.3	30.7	26.3	30.7	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)