

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: P249369

Luminaire Tested: **LD8B200D010 ER8B200935 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200935 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18267.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

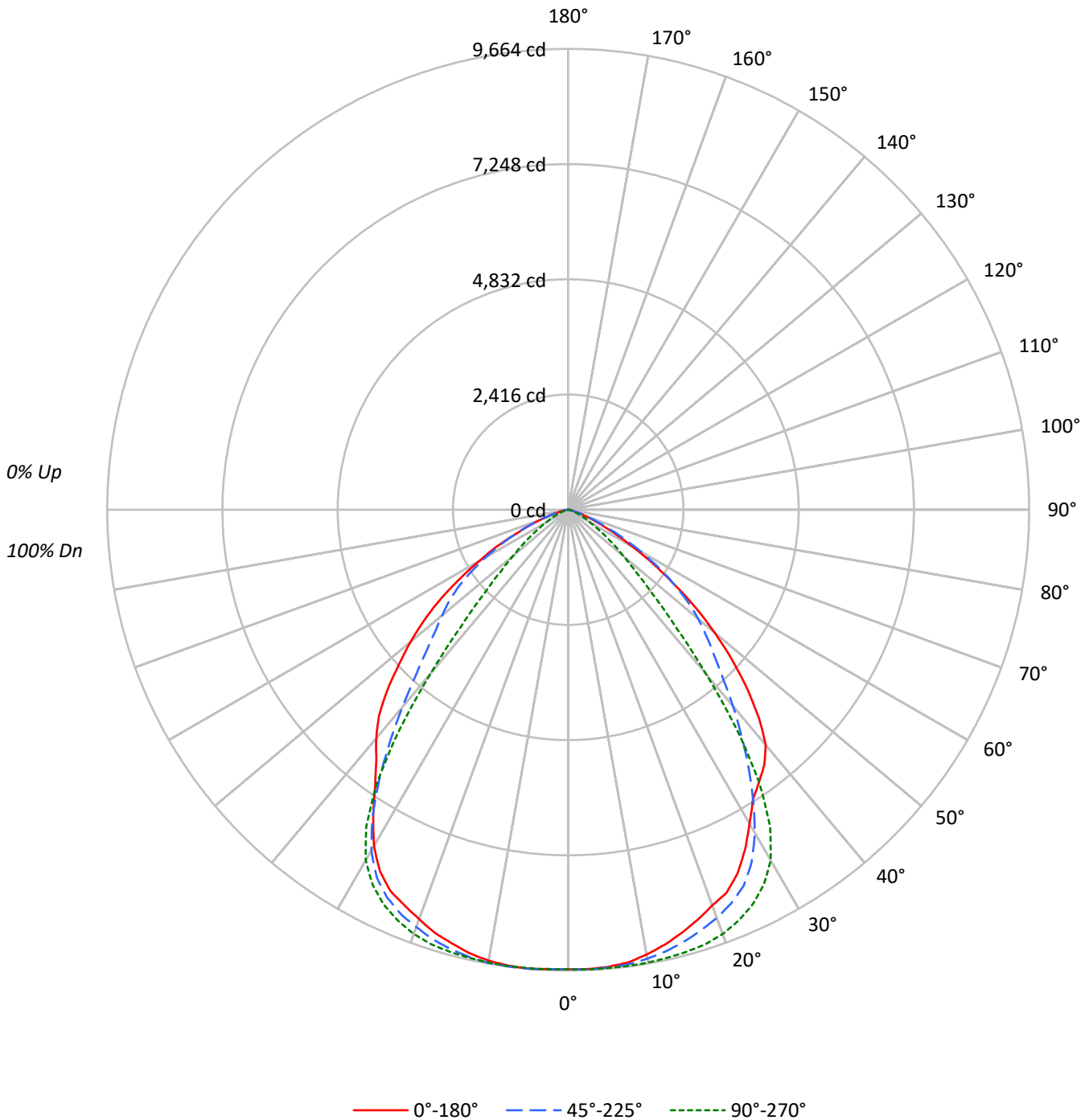
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	297200	297200	297200
5°	297856	298658	298980
10°	296603	301948	300652
15°	293315	306363	300585
20°	289792	310672	299807
25°	286030	311028	300116
30°	270604	302283	289942
35°	262523	262715	265444
40°	259272	180760	251986
45°	231024	108517	234181
50°	192097	72223	206983
55°	144070	49789	175499
60°	97634	33180	132411
65°	58890	21517	90965
70°	32656	11667	55971
75°	14797	4932	28975
80°	12857	5505	20209
85°	14648	7288	20167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	919.8	5.0
10°-20°	2671.3	14.6
20°-30°	4054.5	22.2
30°-40°	4258.4	23.3
40°-50°	3192.7	17.5
50°-60°	2048.5	11.2
60°-70°	876.3	4.8
70°-80°	207.0	1.1
80°-90°	38.5	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°	7645.6	41.9
0°-40°	11904.0	65.2
0°-60°	17145.1	93.9
0°-90°	18267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18267.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9638	9638	9638	9638	9638	
5°	9622	9638	9648	9664	9659	914
15°	9188	9379	9597	9535	9416	2592
25°	8407	8702	9141	8976	8821	3841
35°	6974	6586	6979	6896	7051	4377
45°	5298	4330	2488	4206	5370	4057
55°	2680	2680	926	2794	3264	2431
65°	807	952	295	1226	1247	862
75°	124	145	41	248	243	181
85°	41	26	21	41	57	44
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°	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0
2.5°	9643.2	9653.6	9648.4	9648.4	9643.2	9648.4	9648.4	9658.8	9658.8	9648.4	9643.2
5°	9622.5	9632.8	9632.8	9622.5	9622.5	9648.4	9632.8	9643.2	9643.2	9638.0	9638.0
7.5°	9576.0	9576.0	9596.6	9581.2	9581.2	9596.6	9591.4	9601.8	9612.2	9617.4	9617.4
10°	9472.5	9482.8	9488.0	9488.0	9493.2	9508.7	9519.0	9539.8	9550.1	9560.4	9565.6
12.5°	9343.2	9358.7	9363.8	9358.7	9374.2	9394.9	9420.8	9446.6	9462.2	9482.8	9498.4
15°	9187.9	9187.9	9198.3	9213.8	9224.2	9255.2	9281.1	9312.1	9353.5	9379.4	9405.2
17.5°	9017.3	9027.6	9043.1	9043.1	9063.8	9115.5	9131.1	9177.6	9224.2	9250.0	9301.8
20°	8831.0	8841.3	8856.9	8867.3	8893.1	8934.5	8965.5	9006.9	9058.6	9105.2	9156.9
22.5°	8686.1	8665.5	8675.7	8686.1	8712.1	8748.3	8784.5	8836.1	8887.9	8934.5	8986.2
25°	8406.7	8411.9	8427.5	8437.8	8468.9	8499.9	8541.3	8603.3	8649.9	8701.7	8758.5
27.5°	8029.1	8034.3	8060.2	8060.2	8086.0	8137.7	8163.6	8215.3	8277.5	8329.1	8396.5
30°	7599.8	7610.0	7610.0	7630.8	7646.2	7672.2	7698.0	7749.8	7780.8	7827.4	7920.5
32.5°	7206.6	7216.8	7211.7	7206.6	7191.0	7185.8	7180.6	7191.0	7201.4	7216.8	7253.0
35°	6973.8	6947.9	6927.2	6891.0	6849.6	6797.8	6751.3	6689.2	6632.3	6585.7	6534.0
37.5°	6751.3	6746.1	6715.1	6663.3	6580.5	6487.5	6378.9	6244.3	6109.7	5964.9	5825.3
40°	6440.9	6425.3	6399.5	6327.1	6233.9	6120.1	5975.3	5809.7	5592.4	5370.0	5142.4
42.5°	5913.2	5918.3	5887.3	5830.4	5742.5	5633.8	5483.8	5302.8	5070.0	4806.0	4511.2
45°	5297.6	5297.6	5287.2	5240.6	5178.6	5090.6	4976.8	4826.8	4599.2	4330.1	4014.5
47.5°	4656.0	4661.2	4645.7	4635.4	4609.5	4552.6	4469.8	4356.0	4195.6	3936.9	3621.3
50°	4004.3	4004.3	4030.1	4024.9	4024.9	4004.3	3968.0	3900.7	3761.1	3554.1	3259.3
52.5°	3352.3	3362.7	3378.3	3398.9	3424.7	3466.1	3424.7	3393.7	3305.8	3145.4	2892.0
55°	2679.8	2690.2	2716.0	2752.2	2783.3	2824.7	2835.0	2835.0	2788.4	2679.8	2488.4
57.5°	2105.6	2090.0	2110.8	2141.8	2183.2	2224.6	2255.6	2291.8	2286.6	2214.2	2059.0
60°	1583.1	1588.3	1603.7	1634.8	1665.9	1702.1	1743.4	1774.5	1790.0	1753.8	1655.5
62.5°	1153.7	1153.7	1174.3	1205.3	1220.9	1272.7	1298.5	1314.1	1329.5	1324.3	1262.3
65°	807.1	817.4	827.7	843.3	858.8	889.8	905.3	936.3	946.7	951.9	905.3
67.5°	569.1	553.6	563.9	574.2	589.8	610.5	641.5	641.5	657.0	657.0	626.0
70°	362.2	362.2	367.3	382.8	393.2	398.4	408.7	419.0	434.6	429.4	429.4
72.5°	243.2	238.0	243.2	248.4	253.5	269.0	269.0	274.2	284.6	289.8	269.0
75°	124.2	129.4	139.6	134.6	150.0	139.6	144.8	160.4	155.2	144.8	144.8
77.5°	103.4	103.4	103.4	98.4	108.6	108.6	103.4	113.8	108.6	108.6	103.4
80°	72.4	77.6	72.4	67.2	72.4	67.2	67.2	67.2	67.2	67.2	62.0
82.5°	57.0	46.6	51.8	46.6	51.8	51.8	46.6	41.4	41.4	46.6	41.4
85°	41.4	31.0	36.2	36.2	31.0	31.0	31.0	31.0	31.0	25.8	25.8
87.5°	25.8	15.6	15.6	15.6	20.6	20.6	20.6	15.6	20.6	20.6	10.4
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°	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0
2.5°	9653.6	9648.4	9658.8	9653.6	9653.6	9648.4	9653.6	9648.4	9658.8	9638.0	9643.2
5°	9653.6	9643.2	9648.4	9653.6	9658.8	9648.4	9648.4	9648.4	9658.8	9648.4	9653.6
7.5°	9632.8	9627.7	9643.2	9653.6	9648.4	9643.2	9653.6	9648.4	9658.8	9653.6	9663.9
10°	9591.4	9596.6	9607.0	9622.5	9627.7	9632.8	9643.2	9643.2	9658.8	9638.0	9648.4
12.5°	9529.4	9550.1	9576.0	9586.3	9607.0	9607.0	9617.4	9622.5	9632.8	9627.7	9643.2
15°	9451.8	9477.6	9508.7	9534.6	9560.4	9576.0	9591.4	9596.6	9612.2	9596.6	9601.8
17.5°	9358.7	9389.7	9436.3	9467.3	9508.7	9524.2	9544.9	9555.2	9570.8	9560.4	9565.6
20°	9229.3	9265.6	9317.3	9363.8	9389.7	9425.9	9451.8	9467.3	9477.6	9467.3	9472.5
22.5°	9048.3	9100.0	9167.3	9203.5	9255.2	9286.2	9291.4	9327.6	9353.5	9327.6	9338.0
25°	8836.1	8887.9	8939.7	9017.3	9063.8	9100.0	9136.2	9141.4	9167.3	9162.1	9156.9
27.5°	8484.3	8551.7	8639.5	8701.7	8763.7	8820.7	8862.1	8872.3	8898.3	8887.9	8893.1
30°	8003.2	8075.7	8158.5	8256.7	8344.7	8401.6	8453.3	8489.5	8515.4	8499.9	8494.7
32.5°	7320.4	7392.8	7480.8	7579.0	7682.5	7765.2	7827.4	7873.9	7905.0	7894.6	7868.8
35°	6539.2	6559.9	6616.8	6694.4	6782.3	6870.3	6927.2	6978.9	7015.1	7025.4	7025.4
37.5°	5737.3	5670.1	5628.7	5628.7	5680.4	5716.6	5768.3	5799.4	5856.3	5876.9	5892.5
40°	4961.2	4806.0	4661.2	4552.6	4480.2	4475.0	4475.0	4490.5	4542.2	4609.5	4671.6
42.5°	4268.1	4019.7	3797.3	3595.5	3450.7	3367.9	3331.7	3336.9	3378.3	3440.3	3543.7
45°	3714.5	3404.1	3124.7	2881.6	2685.0	2555.6	2493.6	2488.4	2519.4	2591.8	2705.7
47.5°	3285.1	2954.0	2638.4	2359.0	2147.0	2007.3	1934.8	1914.2	1934.8	2002.1	2136.6
50°	2928.2	2586.8	2260.8	1971.1	1743.4	1598.6	1531.3	1505.5	1531.3	1588.3	1722.7
52.5°	2597.0	2245.2	1940.0	1660.7	1417.5	1293.3	1220.9	1205.3	1220.9	1288.1	1396.9
55°	2214.2	1914.2	1614.1	1334.7	1122.7	998.5	941.5	926.1	941.5	1003.7	1117.5
57.5°	1836.6	1577.9	1314.1	1060.5	879.5	770.8	719.1	698.4	734.6	776.0	910.5
60°	1484.7	1277.9	1055.3	832.9	682.9	584.6	543.2	538.0	548.4	600.1	693.2
62.5°	1164.1	993.3	817.4	636.3	512.2	470.8	419.0	413.9	424.2	455.2	527.7
65°	838.1	729.5	594.9	465.6	367.3	310.4	289.8	294.9	305.2	326.0	393.2
67.5°	584.6	507.0	413.9	326.0	253.5	227.6	207.0	201.8	207.0	243.2	279.4
70°	393.2	346.6	279.4	248.4	175.9	139.6	144.8	129.4	150.0	150.0	181.0
72.5°	258.6	227.6	186.2	144.8	124.2	98.4	98.4	93.2	103.4	108.6	134.6
75°	134.6	103.4	103.4	72.4	51.8	25.8	46.6	41.4	36.2	41.4	51.8
77.5°	93.2	77.6	72.4	57.0	51.8	41.4	41.4	41.4	41.4	46.6	51.8
80°	57.0	57.0	41.4	36.2	31.0	25.8	31.0	31.0	31.0	31.0	36.2
82.5°	36.2	31.0	31.0	25.8	25.8	20.6	20.6	20.6	20.6	20.6	31.0
85°	31.0	20.6	20.6	15.6	20.6	36.2	15.6	20.6	20.6	20.6	15.6
87.5°	10.4	15.6	15.6	15.6	10.4	5.2	10.4	15.6	15.6	25.8	20.6
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°	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0	9638.0
2.5°	9653.6	9658.8	9658.8	9653.6	9653.6	9643.2	9663.9	9648.4	9653.6	9674.2	9658.8
5°	9663.9	9669.0	9669.0	9663.9	9663.9	9663.9	9669.0	9669.0	9663.9	9658.8	9669.0
7.5°	9684.6	9679.4	9679.4	9669.0	9669.0	9658.8	9669.0	9653.6	9663.9	9653.6	9669.0
10°	9658.8	9663.9	9658.8	9653.6	9653.6	9648.4	9648.4	9632.8	9638.0	9622.5	9632.8
12.5°	9643.2	9638.0	9638.0	9627.7	9617.4	9607.0	9601.8	9586.3	9586.3	9550.1	9565.6
15°	9601.8	9607.0	9591.4	9570.8	9560.4	9534.6	9524.2	9503.5	9482.8	9457.0	9462.2
17.5°	9565.6	9550.1	9529.4	9508.7	9467.3	9446.6	9425.9	9394.9	9384.5	9353.5	9343.2
20°	9457.0	9446.6	9420.8	9384.5	9358.7	9312.1	9291.4	9260.4	9234.5	9203.5	9187.9
22.5°	9317.3	9306.9	9275.9	9239.7	9198.3	9177.6	9156.9	9100.0	9074.1	9043.1	9037.9
25°	9141.4	9125.9	9094.9	9053.5	9032.7	8975.9	8955.1	8913.7	8903.5	8872.3	8867.3
27.5°	8872.3	8851.7	8815.5	8763.7	8727.5	8691.3	8670.7	8639.5	8629.3	8598.1	8593.1
30°	8468.9	8442.9	8370.5	8349.9	8287.8	8251.5	8251.5	8210.2	8215.3	8194.7	8194.7
32.5°	7832.6	7791.2	7734.2	7692.8	7651.4	7630.8	7630.8	7615.2	7625.6	7625.6	7636.0
35°	6989.2	6932.4	6901.3	6875.4	6875.4	6896.1	6958.2	6973.8	7004.8	7030.6	7051.4
37.5°	5908.0	5902.9	5939.1	5970.1	6047.7	6135.7	6244.3	6337.5	6425.3	6487.5	6549.5
40°	4738.8	4868.2	4971.6	5116.5	5235.4	5406.2	5602.8	5763.1	5913.2	6021.9	6135.7
42.5°	3698.9	3864.5	4081.8	4293.9	4506.0	4738.8	4997.6	5220.0	5416.6	5566.6	5685.5
45°	2881.6	3109.2	3373.1	3642.1	3916.3	4206.0	4475.0	4702.6	4909.6	5064.8	5183.8
47.5°	2322.8	2571.2	2871.2	3166.1	3476.5	3781.7	4081.8	4278.4	4449.1	4573.3	4682.0
50°	1919.3	2183.2	2498.8	2835.0	3145.4	3450.7	3709.3	3900.7	4040.5	4149.1	4216.3
52.5°	1603.7	1883.1	2219.4	2555.6	2866.0	3145.4	3378.3	3523.1	3636.9	3714.5	3776.5
55°	1324.3	1593.4	1909.0	2224.6	2529.8	2793.6	2985.0	3093.7	3181.6	3228.2	3264.4
57.5°	1081.3	1329.5	1619.3	1909.0	2172.8	2390.2	2540.2	2648.8	2690.2	2726.4	2721.2
60°	848.5	1081.3	1345.1	1593.4	1821.0	1996.9	2105.6	2167.6	2198.7	2214.2	2203.8
62.5°	667.4	879.5	1081.3	1298.5	1464.1	1614.1	1717.6	1717.6	1733.1	1738.3	1753.8
65°	496.6	657.0	832.9	993.3	1127.7	1226.1	1283.1	1298.5	1319.3	1314.1	1303.7
67.5°	367.3	486.3	615.6	734.6	827.7	889.8	931.2	967.5	962.3	951.9	946.7
70°	253.5	331.1	444.9	517.4	584.6	646.7	657.0	662.2	667.4	672.5	662.2
72.5°	175.9	232.8	294.9	357.0	398.4	424.2	450.1	455.2	455.2	455.2	450.1
75°	88.0	119.0	175.9	201.8	238.0	248.4	269.0	269.0	284.6	263.8	258.6
77.5°	77.6	93.2	124.2	144.8	160.4	175.9	181.0	196.6	191.4	181.0	186.2
80°	46.6	57.0	77.6	88.0	108.6	113.8	119.0	124.2	119.0	124.2	124.2
82.5°	36.2	41.4	51.8	51.8	67.2	67.2	72.4	72.4	77.6	77.6	77.6
85°	20.6	36.2	31.0	62.0	41.4	41.4	51.8	62.0	51.8	51.8	62.0
87.5°	20.6	20.6	15.6	20.6	20.6	20.6	25.8	31.0	31.0	36.2	31.0
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: P249369

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9638.0	9638.0	9638.0	9638.0
2.5°	9653.6	9663.9	9648.4	9643.2
5°	9669.0	9669.0	9658.8	9658.8
7.5°	9669.0	9669.0	9653.6	9643.2
10°	9627.7	9627.7	9612.2	9601.8
12.5°	9550.1	9550.1	9544.9	9529.4
15°	9451.8	9451.8	9431.1	9415.6
17.5°	9317.3	9327.6	9301.8	9301.8
20°	9172.4	9167.3	9146.6	9136.2
22.5°	9022.4	9012.1	9006.9	8975.9
25°	8862.1	8851.7	8836.1	8820.7
27.5°	8587.9	8582.7	8567.1	8546.5
30°	8168.8	8163.6	8142.9	8142.9
32.5°	7625.6	7620.4	7599.8	7604.9
35°	7061.7	7082.4	7072.0	7051.4
37.5°	6590.9	6606.5	6616.8	6606.5
40°	6197.7	6244.3	6249.5	6259.9
42.5°	5778.7	5840.7	5861.5	5871.8
45°	5276.8	5333.8	5380.4	5370.0
47.5°	4764.6	4806.0	4847.4	4816.4
50°	4273.2	4299.1	4314.6	4314.6
52.5°	3807.7	3807.7	3802.5	3807.7
55°	3274.7	3274.7	3254.1	3264.4
57.5°	2716.0	2726.4	2710.8	2685.0
60°	2198.7	2172.8	2162.4	2147.0
62.5°	1712.4	1712.4	1676.2	1722.7
65°	1283.1	1267.5	1251.9	1246.7
67.5°	931.2	926.1	910.5	905.3
70°	657.0	636.3	631.2	620.8
72.5°	439.8	439.8	429.4	429.4
75°	269.0	243.2	238.0	243.2
77.5°	186.2	181.0	181.0	175.9
80°	124.2	119.0	129.4	113.8
82.5°	77.6	82.8	77.6	82.8
85°	51.8	62.0	57.0	57.0
87.5°	31.0	31.0	31.0	31.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)