

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: P248532

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009727 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15377.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

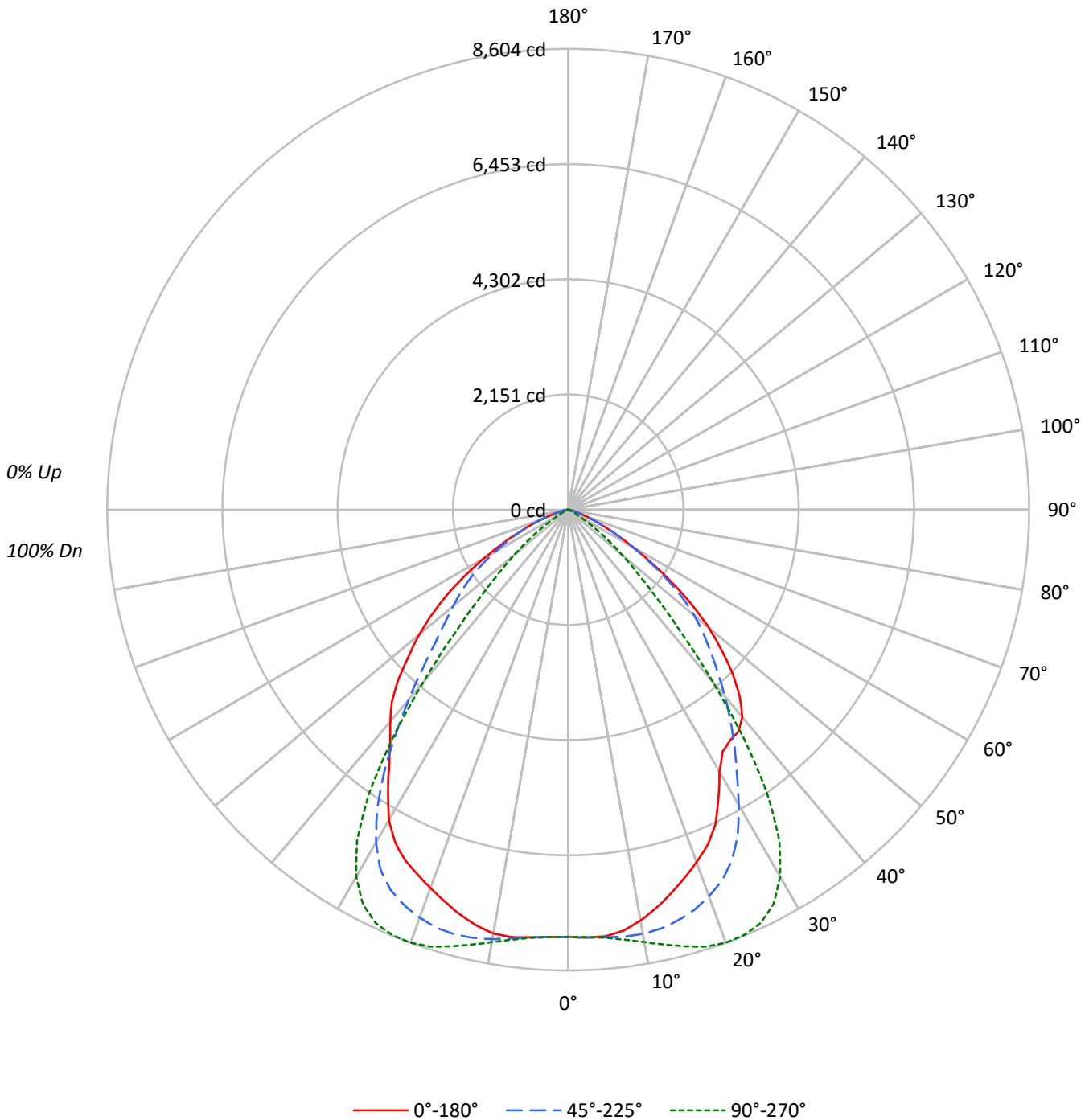
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.1	5.0
10°-20°	2272.6	14.8
20°-30°	3467.0	22.5
30°-40°	3617.9	23.5
40°-50°	2717.5	17.7
50°-60°	1672.0	10.9
60°-70°	680.5	4.4
70°-80°	160.3	1.0
80°-90°	22.1	0.1
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°	6506.7	42.3
0°-40°	10124.6	65.8
0°-60°	14514.2	94.4
0°-90°	15377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15377.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7977	7977	7977	7977	7977	
5°	7994	8015	8024	8015	8015	756
15°	7414	7935	8439	8206	7820	2089
25°	6495	7223	8511	7837	7215	2953
35°	5263	5411	6482	5991	5822	3323
45°	4344	3760	2346	3502	4480	3314
55°	2346	2227	614	2227	2748	2109
65°	732	741	93	995	1054	764
75°	127	127	17	224	233	153
85°	13	13	4	30	38	18
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°	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0
2.5°	7998.3	7985.5	7998.3	7998.3	8002.5	7994.0	7998.3	8002.5	7994.0	7994.0	7994.0
5°	7994.0	7985.5	7994.0	7989.8	7998.3	7998.3	8006.8	8006.8	8015.2	8015.2	8027.9
7.5°	7926.3	7909.4	7926.3	7939.0	7947.4	7964.4	7985.5	8002.5	8019.4	8036.4	8057.5
10°	7786.5	7786.5	7799.3	7824.6	7850.0	7879.7	7917.8	7960.2	8002.5	8040.6	8078.7
12.5°	7613.0	7600.2	7625.6	7659.5	7697.6	7744.2	7803.5	7867.0	7934.8	8010.9	8070.3
15°	7414.0	7401.2	7430.9	7464.7	7511.4	7579.1	7651.1	7735.8	7833.1	7934.8	8032.2
17.5°	7210.7	7206.5	7236.1	7282.7	7320.8	7392.7	7486.0	7587.5	7697.6	7833.1	7960.2
20°	7003.3	6999.0	7028.7	7066.8	7117.6	7185.3	7278.5	7397.0	7528.2	7680.7	7828.9
22.5°	6787.3	6791.5	6816.9	6859.3	6901.7	6973.6	7070.9	7189.6	7333.5	7498.6	7663.8
25°	6495.1	6474.0	6507.9	6550.2	6622.1	6681.4	6774.6	6901.7	7049.8	7223.4	7418.2
27.5°	6071.7	6067.5	6097.2	6135.2	6198.7	6270.7	6372.4	6503.6	6660.3	6850.8	7041.3
30°	5648.3	5656.8	5669.5	5707.6	5749.9	5821.9	5923.5	6033.7	6181.8	6363.9	6567.1
32.5°	5360.4	5360.4	5377.4	5402.7	5432.4	5470.5	5542.5	5622.9	5737.3	5864.3	6012.4
35°	5263.0	5246.1	5263.0	5267.2	5271.5	5280.0	5292.6	5318.1	5356.1	5411.2	5466.2
37.5°	5220.7	5208.0	5208.0	5191.1	5169.8	5144.5	5110.6	5072.5	5030.2	4975.1	4932.8
40°	5055.6	5047.1	5038.6	5021.7	4975.1	4924.3	4869.2	4780.3	4682.9	4547.4	4412.0
42.5°	4738.0	4729.5	4725.3	4691.4	4649.0	4589.8	4526.3	4433.1	4310.4	4136.7	3942.0
45°	4344.2	4327.2	4314.6	4285.0	4255.2	4204.5	4145.2	4060.5	3937.7	3759.9	3527.0
47.5°	3886.9	3878.4	3874.2	3861.6	3831.9	3802.2	3764.2	3696.4	3586.3	3416.9	3175.6
50°	3425.4	3408.5	3416.9	3412.8	3400.0	3378.9	3353.4	3306.9	3222.1	3069.7	2849.6
52.5°	2896.1	2896.1	2891.9	2904.6	2908.8	2904.6	2908.8	2858.1	2786.1	2671.7	2485.4
55°	2345.7	2345.7	2358.4	2375.4	2392.3	2396.5	2392.3	2371.1	2320.3	2227.1	2062.0
57.5°	1829.1	1820.7	1846.1	1871.5	1888.5	1905.3	1892.6	1875.7	1846.1	1769.8	1642.8
60°	1393.0	1393.0	1409.9	1426.9	1443.8	1460.8	1456.5	1452.3	1426.9	1376.0	1274.5
62.5°	1024.6	1028.9	1028.9	1041.6	1058.5	1075.5	1088.1	1075.5	1062.8	1028.9	961.1
65°	732.5	728.2	732.5	745.2	758.0	774.8	783.3	779.1	766.3	741.0	690.2
67.5°	491.2	486.9	503.8	508.1	516.6	533.5	529.3	533.5	529.3	508.1	465.8
70°	321.8	313.3	321.8	317.5	330.3	334.5	342.9	347.2	342.9	330.3	317.5
72.5°	199.0	194.8	199.0	203.3	207.5	211.7	220.2	220.2	215.9	207.5	190.5
75°	127.0	114.3	118.5	110.1	118.5	118.5	127.0	131.3	127.0	127.0	118.5
77.5°	76.2	76.2	76.2	76.2	76.2	76.2	76.2	80.5	84.6	76.2	72.0
80°	38.1	38.1	42.4	42.4	42.4	46.6	42.4	42.4	42.4	46.6	33.9
82.5°	29.6	25.4	25.4	25.4	29.6	25.4	25.4	25.4	25.4	25.4	25.4
85°	12.7	16.9	12.7	8.5	12.7	12.7	16.9	12.7	12.7	12.7	16.9
87.5°	4.2	4.2	0.0	0.0	0.0	4.2	0.0	4.2	4.2	8.5	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0
2.5°	7998.3	7989.8	7989.8	7985.5	7994.0	7985.5	7989.8	7985.5	7985.5	7994.0	7985.5
5°	8027.9	8032.2	8023.7	8019.4	8032.2	8032.2	8032.2	8023.7	8023.7	8027.9	8023.7
7.5°	8070.3	8078.7	8082.9	8087.2	8095.7	8099.9	8099.9	8095.7	8091.4	8104.2	8087.2
10°	8116.8	8129.5	8154.9	8167.7	8188.8	8188.8	8197.3	8197.3	8188.8	8197.3	8193.1
12.5°	8099.9	8176.1	8218.4	8248.1	8277.7	8303.1	8311.6	8315.8	8311.6	8328.6	8311.6
15°	8129.5	8193.1	8260.8	8311.6	8366.6	8396.2	8404.7	8438.6	8447.1	8451.3	8425.9
17.5°	8082.9	8197.3	8269.2	8345.5	8425.9	8481.0	8531.7	8553.0	8557.2	8565.6	8531.7
20°	7977.0	8104.2	8214.2	8324.3	8417.5	8502.1	8544.5	8603.7	8586.8	8620.7	8574.1
22.5°	7833.1	7977.0	8116.8	8260.8	8358.2	8459.8	8548.7	8591.0	8612.2	8612.2	8561.4
25°	7604.5	7773.9	7926.3	8074.4	8222.7	8345.5	8447.1	8510.6	8523.3	8519.1	8459.8
27.5°	7248.8	7430.9	7608.7	7778.1	7960.2	8104.2	8222.7	8298.8	8320.1	8320.1	8256.6
30°	6757.6	6952.4	7126.1	7329.2	7515.6	7676.5	7841.6	7909.4	7947.4	7947.4	7875.5
32.5°	6173.3	6338.5	6499.4	6698.4	6901.7	7083.7	7240.3	7333.5	7380.1	7375.8	7312.3
35°	5538.3	5618.6	5741.5	5889.7	6071.7	6241.1	6393.5	6482.5	6562.9	6558.6	6499.4
37.5°	4903.1	4881.9	4894.7	4949.7	5064.0	5182.6	5301.1	5385.9	5453.5	5483.2	5470.5
40°	4280.7	4170.6	4064.7	4026.7	4035.1	4077.5	4141.0	4204.5	4280.7	4318.9	4335.7
42.5°	3721.8	3535.5	3349.1	3209.5	3129.0	3103.6	3133.2	3154.4	3201.0	3256.0	3311.1
45°	3273.0	3023.2	2777.6	2561.7	2426.2	2345.7	2328.8	2345.7	2371.1	2426.2	2498.2
47.5°	2904.6	2612.4	2337.3	2095.9	1896.9	1791.1	1761.4	1752.9	1778.3	1829.1	1926.5
50°	2578.6	2286.4	1981.6	1702.1	1494.7	1376.0	1333.8	1316.8	1346.4	1384.5	1473.4
52.5°	2222.9	1935.0	1621.7	1350.7	1134.8	1012.0	965.4	940.0	956.9	1007.7	1096.6
55°	1837.6	1570.8	1287.2	1007.7	800.2	685.9	630.8	613.9	630.8	685.9	774.8
57.5°	1452.3	1227.9	990.7	728.2	541.9	427.7	372.6	355.7	402.3	423.4	516.6
60°	1134.8	952.7	749.5	533.5	372.6	283.7	228.6	215.9	237.1	275.2	351.4
62.5°	851.1	736.7	575.8	381.0	275.2	182.0	152.4	139.8	152.4	182.0	241.4
65°	618.2	529.3	402.3	279.4	186.3	135.5	101.6	93.1	105.9	127.0	177.9
67.5°	423.4	355.7	279.4	194.8	127.0	84.6	72.0	72.0	76.2	93.1	131.3
70°	275.2	232.9	177.9	127.0	84.6	63.5	55.0	46.6	55.0	67.8	88.9
72.5°	173.6	148.2	114.3	88.9	63.5	46.6	38.1	33.9	42.4	50.8	67.8
75°	105.9	80.5	59.3	46.6	33.9	33.9	33.9	16.9	21.1	33.9	42.4
77.5°	63.5	55.0	46.6	38.1	29.6	16.9	16.9	16.9	21.1	25.4	38.1
80°	33.9	29.6	21.1	21.1	16.9	12.7	16.9	12.7	8.5	21.1	25.4
82.5°	21.1	16.9	16.9	16.9	21.1	8.5	12.7	8.5	12.7	16.9	12.7
85°	12.7	12.7	12.7	8.5	21.1	8.5	8.5	4.2	4.2	8.5	8.5
87.5°	0.0	4.2	4.2	0.0	4.2	0.0	4.2	4.2	4.2	4.2	4.2
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°	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0	7977.0
2.5°	7989.8	7985.5	7989.8	7985.5	7985.5	7985.5	7989.8	7989.8	7985.5	7985.5	7994.0
5°	8023.7	8023.7	8023.7	8019.4	8015.2	8015.2	8023.7	8023.7	8010.9	8023.7	8023.7
7.5°	8095.7	8082.9	8095.7	8078.7	8070.3	8074.4	8078.7	8070.3	8061.8	8066.0	8066.0
10°	8188.8	8176.1	8176.1	8163.4	8150.7	8142.2	8133.8	8112.6	8091.4	8087.2	8070.3
12.5°	8298.8	8277.7	8265.1	8239.6	8218.4	8188.8	8163.4	8129.5	8087.2	8057.5	8027.9
15°	8409.0	8375.1	8345.5	8303.1	8256.6	8205.7	8150.7	8095.7	8027.9	7968.7	7917.8
17.5°	8497.9	8451.3	8396.2	8328.6	8260.8	8184.6	8104.2	8023.7	7926.3	7850.0	7790.8
20°	8527.5	8459.8	8387.8	8298.8	8209.9	8104.2	8002.5	7896.6	7786.5	7706.1	7638.4
22.5°	8489.5	8409.0	8320.1	8226.9	8108.3	7994.0	7875.5	7752.6	7655.3	7545.2	7481.7
25°	8383.6	8286.2	8188.8	8078.7	7964.4	7837.4	7710.4	7583.4	7464.7	7405.5	7325.1
27.5°	8167.7	8061.8	7955.9	7841.6	7710.4	7583.4	7452.1	7329.2	7227.7	7147.2	7100.7
30°	7786.5	7663.8	7541.0	7418.2	7303.8	7172.6	7049.8	6948.2	6846.5	6783.0	6736.5
32.5°	7202.2	7092.2	6969.4	6850.8	6745.0	6634.9	6533.2	6444.4	6372.4	6330.0	6296.1
35°	6414.7	6304.6	6211.5	6126.8	6037.8	5991.3	5927.8	5876.9	5847.3	5830.4	5826.2
37.5°	5423.9	5360.4	5330.7	5313.8	5296.9	5284.2	5292.6	5313.8	5330.7	5360.4	5394.2
40°	4365.4	4420.4	4437.4	4496.6	4551.7	4623.7	4704.2	4797.3	4873.4	4970.8	5038.6
42.5°	3400.0	3501.6	3620.2	3747.2	3882.7	4014.0	4174.9	4323.0	4458.5	4581.3	4687.2
45°	2612.4	2769.1	2947.0	3129.0	3311.1	3501.6	3696.4	3878.4	4039.3	4170.6	4280.7
47.5°	2036.6	2210.2	2438.9	2663.3	2883.5	3107.9	3323.8	3514.3	3649.8	3776.8	3874.2
50°	1613.2	1812.2	2062.0	2320.3	2561.7	2798.7	3027.4	3205.2	3340.7	3442.4	3514.3
52.5°	1249.0	1486.2	1740.2	2011.2	2269.5	2527.8	2739.4	2904.6	3014.7	3103.6	3158.6
55°	931.5	1164.4	1435.4	1714.8	1977.3	2227.1	2426.2	2570.2	2667.5	2718.3	2747.9
57.5°	673.2	885.0	1155.9	1435.4	1672.4	1909.6	2070.5	2201.7	2256.8	2286.4	2299.1
60°	491.2	685.9	927.2	1168.6	1393.0	1583.6	1723.3	1812.2	1854.6	1871.5	1867.2
62.5°	359.9	529.3	736.7	940.0	1122.0	1278.7	1388.8	1448.0	1469.3	1477.7	1465.0
65°	275.2	406.4	584.3	741.0	880.7	995.0	1075.5	1113.6	1126.3	1122.0	1113.6
67.5°	203.3	304.9	436.2	554.7	656.3	745.2	787.6	821.5	829.9	817.2	804.5
70°	144.0	224.4	317.5	398.0	474.2	525.1	571.6	575.8	575.8	571.6	563.2
72.5°	101.6	156.6	215.9	271.0	317.5	355.7	372.6	385.3	381.0	376.8	368.4
75°	67.8	97.4	156.6	169.4	211.7	224.4	241.4	241.4	245.5	232.9	232.9
77.5°	42.4	67.8	93.1	110.1	127.0	144.0	152.4	152.4	156.6	152.4	152.4
80°	25.4	42.4	50.8	76.2	76.2	88.9	93.1	97.4	88.9	101.6	88.9
82.5°	16.9	25.4	38.1	38.1	46.6	55.0	55.0	59.3	59.3	55.0	55.0
85°	12.7	16.9	21.1	25.4	25.4	29.6	25.4	25.4	29.6	33.9	29.6
87.5°	4.2	8.5	4.2	8.5	8.5	16.9	12.7	12.7	12.7	16.9	16.9
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: P248532

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7977.0	7977.0	7977.0	7977.0
2.5°	7985.5	7989.8	7985.5	7985.5
5°	8023.7	8019.4	8023.7	8015.2
7.5°	8053.3	8053.3	8049.0	8049.0
10°	8053.3	8036.4	8036.4	8036.4
12.5°	7989.8	7968.7	7955.9	7947.4
15°	7879.7	7841.6	7824.6	7820.4
17.5°	7735.8	7701.9	7680.7	7668.0
20°	7570.6	7536.7	7511.4	7515.6
22.5°	7426.6	7388.6	7371.6	7363.1
25°	7282.7	7236.1	7223.4	7214.9
27.5°	7049.8	7024.4	7011.7	6999.0
30°	6694.1	6681.4	6660.3	6689.9
32.5°	6283.5	6262.2	6245.3	6258.1
35°	5830.4	5817.7	5830.4	5821.9
37.5°	5415.5	5428.1	5445.1	5453.5
40°	5089.4	5136.0	5153.0	5161.4
42.5°	4763.4	4818.4	4852.3	4873.4
45°	4361.1	4416.1	4454.3	4479.7
47.5°	3946.2	3992.8	4030.8	4026.7
50°	3569.4	3594.8	3611.7	3628.7
52.5°	3188.3	3188.3	3192.5	3192.5
55°	2756.4	2747.9	2743.7	2747.9
57.5°	2282.1	2273.8	2269.5	2256.8
60°	1850.3	1824.9	1808.0	1808.0
62.5°	1448.0	1418.4	1405.8	1401.5
65°	1088.1	1083.9	1058.5	1054.3
67.5°	787.6	770.6	753.7	758.0
70°	554.7	529.3	529.3	520.8
72.5°	359.9	347.2	342.9	342.9
75°	224.4	224.4	215.9	232.9
77.5°	148.2	148.2	144.0	148.2
80°	88.9	88.9	88.9	84.6
82.5°	55.0	59.3	55.0	55.0
85°	29.6	33.9	25.4	38.1
87.5°	16.9	21.1	16.9	21.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)