

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: P249522

Luminaire Tested: **LD8B200D010 ER8B200827 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249522
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 ER8B200827 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20326.0 lumens
Efficiency: N/A
Efficacy: 91.0 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

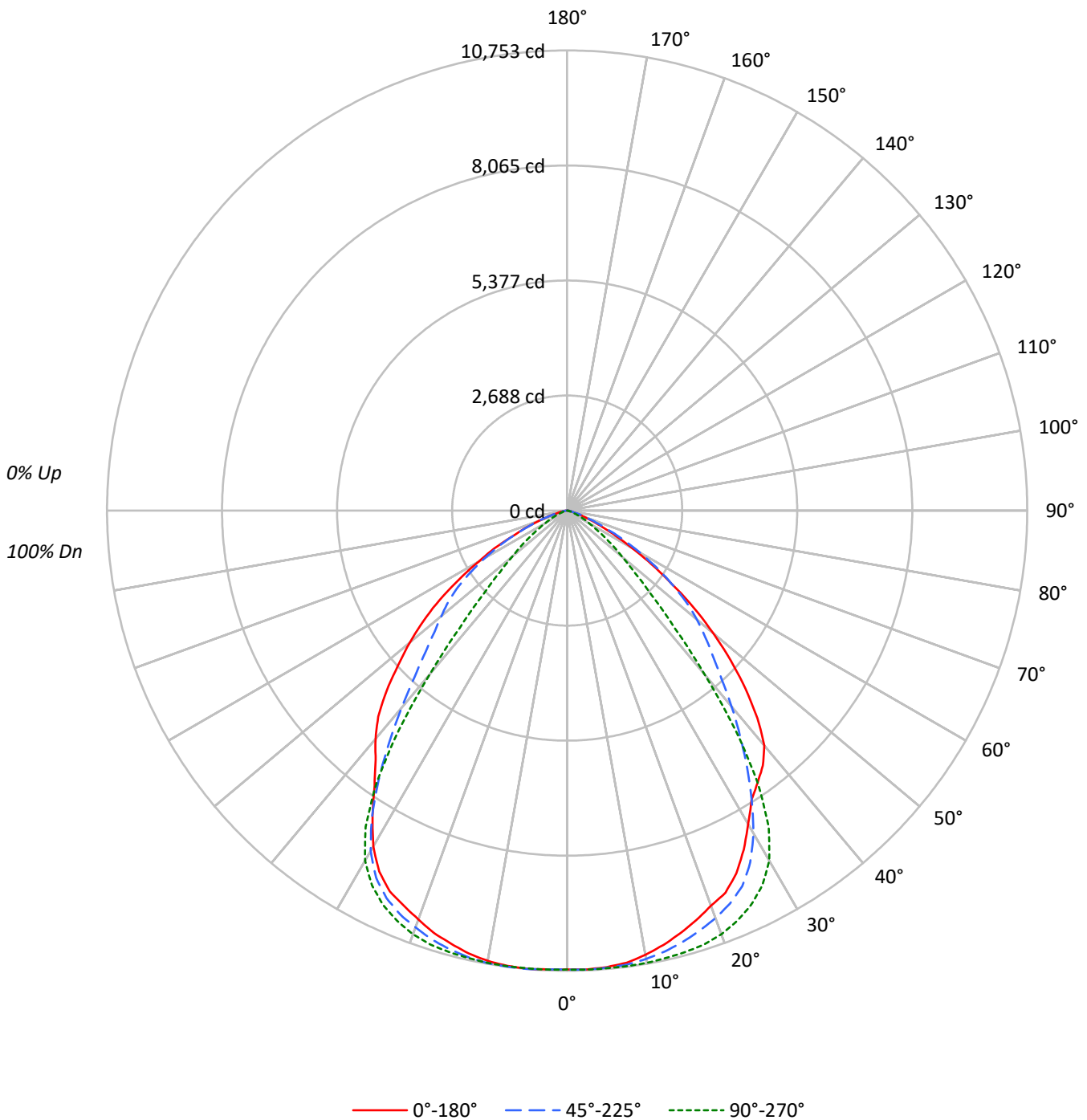
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	330701	330701	330701
5°	331429	332320	332679
10°	330035	335984	334541
15°	326376	340895	334466
20°	322460	345690	333604
25°	318272	346086	333943
30°	301105	336355	322625
35°	292115	292326	295364
40°	288496	201133	280389
45°	257063	120749	260578
50°	213748	80364	230317
55°	160311	55401	195278
60°	108636	36917	147336
65°	65530	23947	101224
70°	36334	12974	62273
75°	16465	5492	32240
80°	14313	6126	22482
85°	16311	8138	22431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1023.5	5.0
10°-20°	2972.4	14.6
20°-30°	4511.5	22.2
30°-40°	4738.4	23.3
40°-50°	3552.5	17.5
50°-60°	2279.4	11.2
60°-70°	975.1	4.8
70°-80°	230.4	1.1
80°-90°	42.9	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°	8507.3	41.9
0°-40°	13245.8	65.2
0°-60°	19077.7	93.9
0°-90°	20326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20326.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10724	10724	10724	10724	10724	
5°	10707	10724	10736	10753	10748	###
15°	10224	10437	10678	10609	10477	2884
25°	9354	9682	10172	9988	9815	4273
35°	7760	7328	7766	7673	7846	4870
45°	5895	4818	2769	4680	5975	4514
55°	2982	2982	1030	3108	3632	2705
65°	898	1059	328	1364	1387	959
75°	138	161	46	276	271	201
85°	46	29	23	46	63	49
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°	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4
2.5°	10730.2	10741.7	10735.9	10735.9	10730.2	10735.9	10735.9	10747.5	10747.5	10735.9	10730.2
5°	10707.1	10718.6	10718.6	10707.1	10707.1	10735.9	10718.6	10730.2	10730.2	10724.4	10724.4
7.5°	10655.4	10655.4	10678.3	10661.2	10661.2	10678.3	10672.6	10684.1	10695.7	10701.4	10701.4
10°	10540.2	10551.7	10557.5	10557.5	10563.3	10580.4	10592.0	10615.1	10626.5	10638.1	10643.8
12.5°	10396.3	10413.5	10419.3	10413.5	10430.9	10453.8	10482.7	10511.4	10528.7	10551.7	10569.0
15°	10223.5	10223.5	10235.1	10252.4	10263.9	10298.5	10327.2	10361.7	10407.8	10436.6	10465.4
17.5°	10033.7	10045.2	10062.4	10062.4	10085.5	10143.0	10160.3	10212.1	10263.9	10292.7	10350.3
20°	9826.5	9837.9	9855.2	9866.7	9895.5	9941.5	9976.0	10022.1	10079.7	10131.5	10189.0
22.5°	9665.2	9642.2	9653.6	9665.2	9694.1	9734.3	9774.6	9832.1	9889.7	9941.5	9999.1
25°	9354.3	9360.1	9377.4	9388.8	9423.5	9458.0	9504.0	9573.1	9624.9	9682.5	9745.8
27.5°	8934.2	8939.9	8968.7	8968.7	8997.4	9055.0	9083.7	9141.4	9210.5	9268.0	9342.9
30°	8456.4	8467.8	8467.8	8490.9	8508.1	8537.0	8565.7	8623.3	8657.8	8709.6	8813.3
32.5°	8018.9	8030.3	8024.5	8018.9	8001.6	7995.8	7990.0	8001.6	8013.1	8030.3	8070.6
35°	7759.9	7731.0	7708.0	7667.7	7621.7	7564.1	7512.2	7443.2	7379.8	7328.0	7270.5
37.5°	7512.2	7506.5	7472.0	7414.4	7322.2	7218.7	7097.9	6948.1	6798.4	6637.3	6481.9
40°	7166.9	7149.6	7120.8	7040.2	6936.6	6810.0	6648.8	6464.6	6222.7	5975.3	5722.0
42.5°	6579.7	6585.4	6550.9	6487.5	6389.8	6268.8	6101.9	5900.5	5641.4	5347.8	5019.7
45°	5894.7	5894.7	5883.1	5831.3	5762.3	5664.4	5537.8	5370.9	5117.6	4818.2	4467.0
47.5°	5180.9	5186.6	5169.3	5157.9	5129.0	5065.8	4973.7	4847.0	4668.6	4380.7	4029.5
50°	4455.6	4455.6	4484.3	4478.6	4478.6	4455.6	4415.3	4340.4	4185.0	3954.7	3626.7
52.5°	3730.2	3741.8	3759.1	3782.0	3810.8	3856.8	3810.8	3776.3	3678.4	3499.9	3217.9
55°	2981.9	2993.4	3022.1	3062.4	3097.1	3143.1	3154.5	3154.5	3102.7	2981.9	2768.9
57.5°	2342.9	2325.6	2348.7	2383.2	2429.3	2475.3	2509.9	2550.1	2544.4	2463.8	2291.1
60°	1761.5	1767.3	1784.5	1819.1	1853.6	1893.9	1940.0	1974.5	1991.8	1951.5	1842.1
62.5°	1283.7	1283.7	1306.7	1341.2	1358.5	1416.1	1444.9	1462.2	1479.4	1473.6	1404.6
65°	898.1	909.5	921.0	938.4	955.5	990.1	1007.4	1041.9	1053.4	1059.2	1007.4
67.5°	633.3	615.9	627.5	638.9	656.2	679.3	713.8	713.8	731.0	731.0	696.5
70°	403.0	403.0	408.8	425.9	437.5	443.3	454.8	466.2	483.5	477.8	477.8
72.5°	270.6	264.8	270.6	276.4	282.1	299.3	299.3	305.1	316.6	322.4	299.3
75°	138.2	143.9	155.4	149.7	166.9	155.4	161.1	178.5	172.7	161.1	161.1
77.5°	115.1	115.1	115.1	109.4	120.9	120.9	115.1	126.6	120.9	120.9	115.1
80°	80.6	86.3	80.6	74.8	80.6	74.8	74.8	74.8	74.8	74.8	69.0
82.5°	63.4	51.8	57.6	51.8	57.6	57.6	51.8	46.1	46.1	51.8	46.1
85°	46.1	34.5	40.3	40.3	34.5	34.5	34.5	34.5	34.5	28.7	28.7
87.5°	28.7	17.3	17.3	17.3	23.0	23.0	23.0	17.3	23.0	23.0	11.5
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°	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4
2.5°	10741.7	10735.9	10747.5	10741.7	10741.7	10735.9	10741.7	10735.9	10747.5	10724.4	10730.2
5°	10741.7	10730.2	10735.9	10741.7	10747.5	10735.9	10735.9	10735.9	10747.5	10735.9	10741.7
7.5°	10718.6	10712.8	10730.2	10741.7	10735.9	10730.2	10741.7	10735.9	10747.5	10741.7	10753.1
10°	10672.6	10678.3	10689.9	10707.1	10712.8	10718.6	10730.2	10730.2	10747.5	10724.4	10735.9
12.5°	10603.5	10626.5	10655.4	10666.8	10689.9	10689.9	10701.4	10707.1	10718.6	10712.8	10730.2
15°	10517.2	10545.9	10580.4	10609.3	10638.1	10655.4	10672.6	10678.3	10695.7	10678.3	10684.1
17.5°	10413.5	10448.0	10499.9	10534.4	10580.4	10597.8	10620.7	10632.3	10649.6	10638.1	10643.8
20°	10269.6	10310.0	10367.5	10419.3	10448.0	10488.3	10517.2	10534.4	10545.9	10534.4	10540.2
22.5°	10068.2	10125.8	10200.6	10240.8	10298.5	10333.0	10338.7	10379.0	10407.8	10379.0	10390.6
25°	9832.1	9889.7	9947.3	10033.7	10085.5	10125.8	10166.1	10171.8	10200.6	10194.8	10189.0
27.5°	9440.7	9515.6	9613.4	9682.5	9751.5	9814.9	9861.0	9872.4	9901.3	9889.7	9895.5
30°	8905.3	8986.0	9078.1	9187.4	9285.3	9348.5	9406.2	9446.4	9475.2	9458.0	9452.2
32.5°	8145.5	8226.1	8324.0	8433.3	8548.5	8640.5	8709.6	8761.5	8796.0	8784.4	8755.7
35°	7276.3	7299.3	7362.7	7449.0	7546.8	7644.6	7708.0	7765.5	7805.8	7817.3	7817.3
37.5°	6384.0	6309.2	6263.2	6263.2	6320.6	6360.9	6418.5	6453.0	6516.4	6539.4	6556.7
40°	5520.4	5347.8	5186.6	5065.8	4985.2	4979.4	4979.4	4996.6	5054.2	5129.0	5198.2
42.5°	4749.1	4472.8	4225.3	4000.8	3839.6	3747.5	3707.2	3713.0	3759.1	3828.1	3943.2
45°	4133.2	3787.8	3477.0	3206.4	2987.6	2843.7	2774.7	2768.9	2803.4	2884.0	3010.7
47.5°	3655.4	3286.9	2935.8	2624.9	2389.0	2233.5	2152.9	2130.0	2152.9	2227.7	2377.5
50°	3258.2	2878.3	2515.6	2193.2	1940.0	1778.8	1703.9	1675.2	1703.9	1767.3	1916.9
52.5°	2889.7	2498.3	2158.7	1847.8	1577.3	1439.1	1358.5	1341.2	1358.5	1433.3	1554.3
55°	2463.8	2130.0	1796.0	1485.2	1249.2	1111.0	1047.7	1030.5	1047.7	1116.8	1243.4
57.5°	2043.6	1755.7	1462.2	1180.1	978.6	857.7	800.2	777.1	817.4	863.4	1013.2
60°	1652.1	1421.9	1174.3	926.8	759.9	650.5	604.4	598.6	610.2	667.8	771.3
62.5°	1295.3	1105.3	909.5	708.1	569.9	523.8	466.2	460.6	472.0	506.5	587.2
65°	932.6	811.7	662.0	518.1	408.8	345.4	322.4	328.2	339.6	362.7	437.5
67.5°	650.5	564.1	460.6	362.7	282.1	253.3	230.3	224.5	230.3	270.6	310.9
70°	437.5	385.7	310.9	276.4	195.8	155.4	161.1	143.9	166.9	166.9	201.4
72.5°	287.8	253.3	207.2	161.1	138.2	109.4	109.4	103.7	115.1	120.9	149.7
75°	149.7	115.1	115.1	80.6	57.6	28.7	51.8	46.1	40.3	46.1	57.6
77.5°	103.7	86.3	80.6	63.4	57.6	46.1	46.1	46.1	46.1	51.8	57.6
80°	63.4	63.4	46.1	40.3	34.5	28.7	34.5	34.5	34.5	34.5	40.3
82.5°	40.3	34.5	34.5	28.7	28.7	23.0	23.0	23.0	23.0	23.0	34.5
85°	34.5	23.0	23.0	17.3	23.0	40.3	17.3	23.0	23.0	23.0	17.3
87.5°	11.5	17.3	17.3	17.3	11.5	5.8	11.5	17.3	17.3	28.7	23.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4	10724.4
2.5°	10741.7	10747.5	10747.5	10741.7	10741.7	10730.2	10753.1	10735.9	10741.7	10764.7	10747.5
5°	10753.1	10758.9	10758.9	10753.1	10753.1	10753.1	10758.9	10758.9	10753.1	10747.5	10758.9
7.5°	10776.2	10770.5	10770.5	10758.9	10758.9	10747.5	10758.9	10741.7	10753.1	10741.7	10758.9
10°	10747.5	10753.1	10747.5	10741.7	10741.7	10735.9	10735.9	10718.6	10724.4	10707.1	10718.6
12.5°	10730.2	10724.4	10724.4	10712.8	10701.4	10689.9	10684.1	10666.8	10666.8	10626.5	10643.8
15°	10684.1	10689.9	10672.6	10649.6	10638.1	10609.3	10597.8	10574.7	10551.7	10523.0	10528.7
17.5°	10643.8	10626.5	10603.5	10580.4	10534.4	10511.4	10488.3	10453.8	10442.3	10407.8	10396.3
20°	10523.0	10511.4	10482.7	10442.3	10413.5	10361.7	10338.7	10304.2	10275.4	10240.8	10223.5
22.5°	10367.5	10355.9	10321.4	10281.1	10235.1	10212.1	10189.0	10125.8	10096.9	10062.4	10056.6
25°	10171.8	10154.5	10120.0	10073.9	10050.8	9987.6	9964.5	9918.4	9907.0	9872.4	9866.7
27.5°	9872.4	9849.4	9809.1	9751.5	9711.2	9671.0	9648.0	9613.4	9601.9	9567.3	9561.7
30°	9423.5	9394.6	9314.0	9291.1	9221.9	9181.6	9181.6	9135.6	9141.4	9118.4	9118.4
32.5°	8715.4	8669.4	8606.0	8559.9	8513.9	8490.9	8490.9	8473.6	8485.1	8485.1	8496.7
35°	7777.1	7713.8	7679.2	7650.4	7650.4	7673.4	7742.5	7759.9	7794.4	7823.1	7846.2
37.5°	6573.9	6568.2	6608.5	6643.0	6729.4	6827.3	6948.1	7051.8	7149.6	7218.7	7287.7
40°	5273.0	5416.9	5532.0	5693.3	5825.5	6015.5	6234.3	6412.8	6579.7	6700.7	6827.3
42.5°	4115.9	4300.1	4541.9	4777.9	5013.9	5273.0	5560.9	5808.3	6027.1	6194.0	6326.4
45°	3206.4	3459.6	3753.3	4052.6	4357.7	4680.1	4979.4	5232.7	5463.0	5635.7	5768.1
47.5°	2584.7	2861.0	3194.8	3523.0	3868.4	4208.0	4541.9	4760.7	4950.6	5088.7	5209.7
50°	2135.6	2429.3	2780.4	3154.5	3499.9	3839.6	4127.4	4340.4	4495.9	4616.7	4691.5
52.5°	1784.5	2095.3	2469.6	2843.7	3189.1	3499.9	3759.1	3920.2	4046.8	4133.2	4202.2
55°	1473.6	1773.1	2124.2	2475.3	2814.9	3108.5	3321.5	3442.4	3540.2	3592.0	3632.3
57.5°	1203.2	1479.4	1801.8	2124.2	2417.7	2659.6	2826.5	2947.3	2993.4	3033.7	3027.9
60°	944.1	1203.2	1496.7	1773.1	2026.3	2222.0	2342.9	2412.0	2446.5	2463.8	2452.3
62.5°	742.6	978.6	1203.2	1444.9	1629.1	1796.0	1911.2	1911.2	1928.4	1934.2	1951.5
65°	552.6	731.0	926.8	1105.3	1254.9	1364.3	1427.7	1444.9	1468.0	1462.2	1450.6
67.5°	408.8	541.2	685.0	817.4	921.0	990.1	1036.1	1076.5	1070.8	1059.2	1053.4
70°	282.1	368.5	495.1	575.7	650.5	719.6	731.0	736.8	742.6	748.4	736.8
72.5°	195.8	259.0	328.2	397.2	443.3	472.0	500.9	506.5	506.5	506.5	500.9
75°	97.9	132.4	195.8	224.5	264.8	276.4	299.3	299.3	316.6	293.5	287.8
77.5°	86.3	103.7	138.2	161.1	178.5	195.8	201.4	218.7	213.0	201.4	207.2
80°	51.8	63.4	86.3	97.9	120.9	126.6	132.4	138.2	132.4	138.2	138.2
82.5°	40.3	46.1	57.6	57.6	74.8	74.8	80.6	80.6	86.3	86.3	86.3
85°	23.0	40.3	34.5	69.0	46.1	46.1	57.6	69.0	57.6	57.6	69.0
87.5°	23.0	23.0	17.3	23.0	23.0	23.0	28.7	34.5	34.5	40.3	34.5
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: P249522

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10724.4	10724.4	10724.4	10724.4
2.5°	10741.7	10753.1	10735.9	10730.2
5°	10758.9	10758.9	10747.5	10747.5
7.5°	10758.9	10758.9	10741.7	10730.2
10°	10712.8	10712.8	10695.7	10684.1
12.5°	10626.5	10626.5	10620.7	10603.5
15°	10517.2	10517.2	10494.1	10476.9
17.5°	10367.5	10379.0	10350.3	10350.3
20°	10206.3	10200.6	10177.6	10166.1
22.5°	10039.4	10027.9	10022.1	9987.6
25°	9861.0	9849.4	9832.1	9814.9
27.5°	9555.9	9550.1	9532.8	9509.8
30°	9089.5	9083.7	9060.8	9060.8
32.5°	8485.1	8479.3	8456.4	8462.2
35°	7857.6	7880.7	7869.2	7846.2
37.5°	7333.8	7351.1	7362.7	7351.1
40°	6896.3	6948.1	6953.9	6965.5
42.5°	6430.1	6499.1	6522.2	6533.6
45°	5871.6	5935.0	5986.8	5975.3
47.5°	5301.7	5347.8	5393.8	5359.3
50°	4754.9	4783.6	4801.0	4801.0
52.5°	4236.9	4236.9	4231.1	4236.9
55°	3643.9	3643.9	3620.9	3632.3
57.5°	3022.1	3033.7	3016.4	2987.6
60°	2446.5	2417.7	2406.2	2389.0
62.5°	1905.5	1905.5	1865.2	1916.9
65°	1427.7	1410.4	1393.0	1387.3
67.5°	1036.1	1030.5	1013.2	1007.4
70°	731.0	708.1	702.3	690.7
72.5°	489.3	489.3	477.8	477.8
75°	299.3	270.6	264.8	270.6
77.5°	207.2	201.4	201.4	195.8
80°	138.2	132.4	143.9	126.6
82.5°	86.3	92.1	86.3	92.1
85°	57.6	69.0	63.4	63.4
87.5°	34.5	34.5	34.5	34.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)