

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: P249558

Luminaire Tested: **LD8B200D010 ER8B200850 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249558
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 ER8B200850 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21947.0 lumens
Efficiency: N/A
Efficacy: 98.3 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

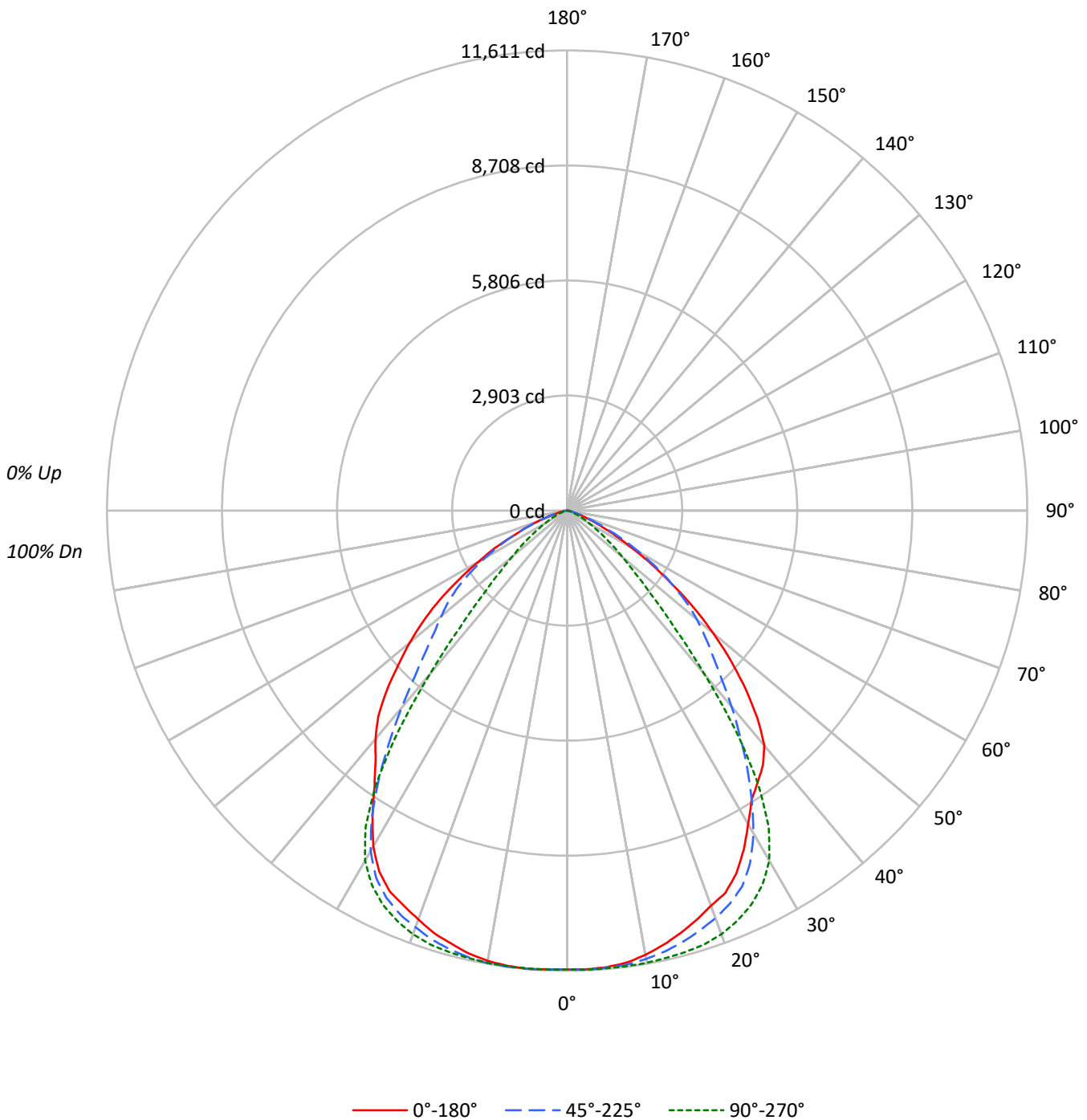
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	357075	357075	357075
5°	357860	358823	359210
10°	356353	362778	361222
15°	352407	368082	361141
20°	348174	373258	360207
25°	343654	373687	360574
30°	325118	363181	348355
35°	315409	315639	318918
40°	311501	217174	302746
45°	277563	130378	281357
50°	230792	86773	248681
55°	173096	59820	210852
60°	117301	39865	159085
65°	70754	25859	109294
70°	39228	14011	67241
75°	17776	5921	34813
80°	15449	6624	24275
85°	17584	8774	24200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1105.1	5.0
10°-20°	3209.4	14.6
20°-30°	4871.3	22.2
30°-40°	5116.3	23.3
40°-50°	3835.9	17.5
50°-60°	2461.2	11.2
60°-70°	1052.9	4.8
70°-80°	248.7	1.1
80°-90°	46.3	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°	9185.8	41.9
0°-40°	14302.1	65.2
0°-60°	20599.1	93.9
0°-90°	21947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21947.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11580	11580	11580	11580	11580	
5°	11561	11580	11592	11611	11605	###
15°	11039	11269	11530	11455	11312	3114
25°	10100	10455	10983	10784	10598	4614
35°	8379	7912	8385	8285	8472	5259
45°	6365	5202	2990	5053	6452	4874
55°	3220	3220	1113	3356	3922	2920
65°	970	1144	354	1473	1498	1035
75°	149	174	50	298	292	217
85°	50	31	25	50	68	52
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°	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7
2.5°	11585.9	11598.4	11592.1	11592.1	11585.9	11592.1	11592.1	11604.6	11604.6	11592.1	11585.9
5°	11561.0	11573.4	11573.4	11561.0	11561.0	11592.1	11573.4	11585.9	11585.9	11579.7	11579.7
7.5°	11505.1	11505.1	11529.9	11511.4	11511.4	11529.9	11523.7	11536.2	11548.6	11554.9	11554.9
10°	11380.7	11393.2	11399.4	11399.4	11405.7	11424.2	11436.7	11461.6	11474.0	11486.4	11492.7
12.5°	11225.5	11244.0	11250.3	11244.0	11262.7	11287.5	11318.7	11349.7	11368.4	11393.2	11411.9
15°	11038.9	11038.9	11051.3	11070.0	11082.5	11119.8	11150.8	11188.0	11237.8	11269.0	11300.0
17.5°	10833.8	10846.3	10864.9	10864.9	10889.8	10951.9	10970.6	11026.5	11082.5	11113.5	11175.7
20°	10610.1	10622.4	10641.1	10653.6	10684.6	10734.4	10771.6	10821.4	10883.6	10939.5	11001.6
22.5°	10436.0	10411.2	10423.5	10436.0	10467.2	10510.7	10554.2	10616.2	10678.4	10734.4	10796.6
25°	10100.3	10106.6	10125.3	10137.6	10175.0	10212.3	10262.0	10336.5	10392.5	10454.7	10523.0
27.5°	9646.7	9652.9	9683.9	9683.9	9714.9	9777.1	9808.2	9870.4	9945.0	10007.1	10088.0
30°	9130.8	9143.1	9143.1	9168.0	9186.6	9217.8	9248.8	9311.0	9348.3	9404.2	9516.2
32.5°	8658.4	8670.7	8664.5	8658.4	8639.7	8633.5	8627.2	8639.7	8652.2	8670.7	8714.2
35°	8378.7	8347.5	8322.7	8279.2	8229.5	8167.3	8111.4	8036.8	7968.4	7912.4	7850.4
37.5°	8111.4	8105.1	8067.9	8005.7	7906.2	7794.4	7663.9	7502.2	7340.6	7166.6	6998.8
40°	7738.4	7719.7	7688.7	7601.7	7489.8	7353.1	7179.1	6980.1	6719.0	6451.8	6178.3
42.5°	7104.4	7110.6	7073.4	7004.9	6899.4	6768.7	6588.5	6371.0	6091.3	5774.2	5420.0
45°	6364.8	6364.8	6352.3	6296.4	6221.8	6116.1	5979.4	5799.2	5525.7	5202.4	4823.3
47.5°	5594.0	5600.3	5581.6	5569.2	5538.1	5469.8	5370.3	5233.6	5040.9	4730.0	4350.9
50°	4810.9	4810.9	4842.0	4835.7	4835.7	4810.9	4767.4	4686.5	4518.8	4270.1	3915.9
52.5°	4027.7	4040.2	4058.9	4083.7	4114.7	4164.4	4114.7	4077.4	3971.7	3779.0	3474.6
55°	3219.7	3232.1	3263.2	3306.7	3344.1	3393.8	3406.1	3406.1	3350.2	3219.7	2989.7
57.5°	2529.8	2511.1	2536.0	2573.3	2623.0	2672.8	2710.0	2753.5	2747.3	2660.3	2473.8
60°	1902.0	1908.2	1926.8	1964.2	2001.4	2044.9	2094.7	2131.9	2150.6	2107.1	1989.0
62.5°	1386.1	1386.1	1410.9	1448.2	1466.9	1529.1	1560.1	1578.8	1597.4	1591.1	1516.6
65°	969.7	982.0	994.5	1013.2	1031.8	1069.0	1087.7	1125.0	1137.5	1143.7	1087.7
67.5°	683.8	665.1	677.5	689.9	708.6	733.5	770.8	770.8	789.3	789.3	752.1
70°	435.1	435.1	441.4	459.9	472.4	478.6	491.1	503.4	522.1	515.9	515.9
72.5°	292.2	285.9	292.2	298.4	304.6	323.2	323.2	329.4	341.9	348.1	323.2
75°	149.2	155.4	167.8	161.7	180.2	167.8	174.0	192.7	186.5	174.0	174.0
77.5°	124.3	124.3	124.3	118.2	130.5	130.5	124.3	136.7	130.5	130.5	124.3
80°	87.0	93.2	87.0	80.8	87.0	80.8	80.8	80.8	80.8	80.8	74.5
82.5°	68.4	56.0	62.2	56.0	62.2	62.2	56.0	49.7	49.7	56.0	49.7
85°	49.7	37.3	43.5	43.5	37.3	37.3	37.3	37.3	37.3	31.0	31.0
87.5°	31.0	18.7	18.7	18.7	24.8	24.8	24.8	18.7	24.8	24.8	12.5
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°	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7
2.5°	11598.4	11592.1	11604.6	11598.4	11598.4	11592.1	11598.4	11592.1	11604.6	11579.7	11585.9
5°	11598.4	11585.9	11592.1	11598.4	11604.6	11592.1	11592.1	11592.1	11604.6	11592.1	11598.4
7.5°	11573.4	11567.2	11585.9	11598.4	11592.1	11585.9	11598.4	11592.1	11604.6	11598.4	11610.7
10°	11523.7	11529.9	11542.4	11561.0	11567.2	11573.4	11585.9	11585.9	11604.6	11579.7	11592.1
12.5°	11449.2	11474.0	11505.1	11517.5	11542.4	11542.4	11554.9	11561.0	11573.4	11567.2	11585.9
15°	11355.9	11387.0	11424.2	11455.4	11486.4	11505.1	11523.7	11529.9	11548.6	11529.9	11536.2
17.5°	11244.0	11281.3	11337.2	11374.5	11424.2	11442.9	11467.7	11480.2	11498.9	11486.4	11492.7
20°	11088.6	11132.2	11194.3	11250.3	11281.3	11324.8	11355.9	11374.5	11387.0	11374.5	11380.7
22.5°	10871.1	10933.3	11014.1	11057.6	11119.8	11157.0	11163.3	11206.8	11237.8	11206.8	11219.2
25°	10616.2	10678.4	10740.6	10833.8	10889.8	10933.3	10976.8	10983.0	11014.1	11007.8	11001.6
27.5°	10193.6	10274.5	10380.0	10454.7	10529.2	10597.6	10647.4	10659.7	10690.9	10678.4	10684.6
30°	9615.5	9702.6	9802.1	9920.1	10025.8	10094.1	10156.3	10199.8	10230.8	10212.3	10206.0
32.5°	8795.1	8882.1	8987.8	9105.8	9230.2	9329.6	9404.2	9460.2	9497.5	9485.0	9454.0
35°	7856.6	7881.4	7949.8	8043.1	8148.6	8254.3	8322.7	8384.8	8428.3	8440.8	8440.8
37.5°	6893.1	6812.4	6762.6	6762.6	6824.7	6868.2	6930.4	6967.7	7036.1	7060.9	7079.6
40°	5960.7	5774.2	5600.3	5469.8	5382.8	5376.5	5376.5	5395.1	5457.3	5538.1	5612.7
42.5°	5127.9	4829.5	4562.3	4319.8	4145.9	4046.4	4002.9	4009.1	4058.9	4133.4	4257.6
45°	4462.8	4089.9	3754.2	3462.1	3225.9	3070.5	2995.9	2989.7	3027.0	3114.0	3250.8
47.5°	3946.9	3549.1	3169.9	2834.3	2579.5	2411.6	2324.6	2299.8	2324.6	2405.4	2567.1
50°	3518.1	3107.9	2716.3	2368.1	2094.7	1920.7	1839.8	1808.8	1839.8	1908.2	2069.7
52.5°	3120.2	2697.5	2330.9	1995.2	1703.1	1553.9	1466.9	1448.2	1466.9	1547.6	1678.3
55°	2660.3	2299.8	1939.2	1603.6	1348.8	1199.7	1131.2	1112.7	1131.2	1205.9	1342.6
57.5°	2206.6	1895.8	1578.8	1274.2	1056.7	926.1	864.0	839.1	882.6	932.3	1094.0
60°	1783.8	1535.3	1267.9	1000.7	820.5	702.3	652.6	646.4	658.8	721.0	832.8
62.5°	1398.6	1193.4	982.0	764.5	615.3	565.6	503.4	497.3	509.6	546.9	634.0
65°	1007.0	876.5	714.8	559.4	441.4	372.9	348.1	354.4	366.7	391.6	472.4
67.5°	702.3	609.1	497.3	391.6	304.6	273.5	248.7	242.4	248.7	292.2	335.7
70°	472.4	416.4	335.7	298.4	211.4	167.8	174.0	155.4	180.2	180.2	217.5
72.5°	310.7	273.5	223.7	174.0	149.2	118.2	118.2	111.9	124.3	130.5	161.7
75°	161.7	124.3	124.3	87.0	62.2	31.0	56.0	49.7	43.5	49.7	62.2
77.5°	111.9	93.2	87.0	68.4	62.2	49.7	49.7	49.7	49.7	56.0	62.2
80°	68.4	68.4	49.7	43.5	37.3	31.0	37.3	37.3	37.3	37.3	43.5
82.5°	43.5	37.3	37.3	31.0	31.0	24.8	24.8	24.8	24.8	24.8	37.3
85°	37.3	24.8	24.8	18.7	24.8	43.5	18.7	24.8	24.8	24.8	18.7
87.5°	12.5	18.7	18.7	18.7	12.5	6.2	12.5	18.7	18.7	31.0	24.8
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°	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7	11579.7
2.5°	11598.4	11604.6	11604.6	11598.4	11598.4	11585.9	11610.7	11592.1	11598.4	11623.2	11604.6
5°	11610.7	11616.9	11616.9	11610.7	11610.7	11610.7	11616.9	11616.9	11610.7	11604.6	11616.9
7.5°	11635.6	11629.4	11629.4	11616.9	11616.9	11604.6	11616.9	11598.4	11610.7	11598.4	11616.9
10°	11604.6	11610.7	11604.6	11598.4	11598.4	11592.1	11592.1	11573.4	11579.7	11561.0	11573.4
12.5°	11585.9	11579.7	11579.7	11567.2	11554.9	11542.4	11536.2	11517.5	11517.5	11474.0	11492.7
15°	11536.2	11542.4	11523.7	11498.9	11486.4	11455.4	11442.9	11418.0	11393.2	11362.2	11368.4
17.5°	11492.7	11474.0	11449.2	11424.2	11374.5	11349.7	11324.8	11287.5	11275.0	11237.8	11225.5
20°	11362.2	11349.7	11318.7	11275.0	11244.0	11188.0	11163.3	11126.0	11094.8	11057.6	11038.9
22.5°	11194.3	11181.8	11144.6	11101.1	11051.3	11026.5	11001.6	10933.3	10902.1	10864.9	10858.6
25°	10983.0	10964.3	10927.1	10877.3	10852.4	10784.1	10759.2	10709.4	10697.1	10659.7	10653.6
27.5°	10659.7	10634.9	10591.4	10529.2	10485.7	10442.2	10417.4	10380.0	10367.7	10330.3	10324.2
30°	10175.0	10143.8	10056.8	10032.0	9957.4	9913.9	9913.9	9864.1	9870.4	9845.6	9845.6
32.5°	9410.5	9360.7	9292.3	9242.6	9192.8	9168.0	9168.0	9149.3	9161.8	9161.8	9174.3
35°	8397.3	8329.0	8291.6	8260.5	8260.5	8285.3	8360.0	8378.7	8416.0	8447.0	8471.9
37.5°	7098.2	7092.1	7135.6	7172.8	7266.1	7371.8	7502.2	7614.2	7719.7	7794.4	7868.9
40°	5693.5	5848.9	5973.2	6147.3	6290.1	6495.3	6731.5	6924.2	7104.4	7235.0	7371.8
42.5°	4444.1	4643.0	4904.2	5158.9	5413.8	5693.5	6004.3	6271.6	6507.8	6688.0	6830.9
45°	3462.1	3735.5	4052.6	4375.8	4705.2	5053.4	5376.5	5650.0	5898.6	6085.1	6228.1
47.5°	2790.8	3089.2	3449.6	3804.0	4176.9	4543.6	4904.2	5140.3	5345.4	5494.6	5625.2
50°	2305.9	2623.0	3002.2	3406.1	3779.0	4145.9	4456.6	4686.5	4854.4	4984.9	5065.7
52.5°	1926.8	2262.4	2666.5	3070.5	3443.4	3779.0	4058.9	4232.9	4369.6	4462.8	4537.3
55°	1591.1	1914.5	2293.6	2672.8	3039.4	3356.4	3586.3	3717.0	3822.5	3878.5	3922.0
57.5°	1299.1	1597.4	1945.5	2293.6	2610.6	2871.7	3051.9	3182.4	3232.1	3275.6	3269.4
60°	1019.4	1299.1	1616.1	1914.5	2187.9	2399.2	2529.8	2604.3	2641.6	2660.3	2647.8
62.5°	801.8	1056.7	1299.1	1560.1	1759.0	1939.2	2063.7	2063.7	2082.2	2088.4	2107.1
65°	596.6	789.3	1000.7	1193.4	1354.9	1473.1	1541.5	1560.1	1585.0	1578.8	1566.3
67.5°	441.4	584.3	739.6	882.6	994.5	1069.0	1118.7	1162.4	1156.2	1143.7	1137.5
70°	304.6	397.9	534.6	621.6	702.3	777.0	789.3	795.6	801.8	808.0	795.6
72.5°	211.4	279.7	354.4	428.9	478.6	509.6	540.8	546.9	546.9	546.9	540.8
75°	105.7	143.0	211.4	242.4	285.9	298.4	323.2	323.2	341.9	316.9	310.7
77.5°	93.2	111.9	149.2	174.0	192.7	211.4	217.5	236.2	230.0	217.5	223.7
80°	56.0	68.4	93.2	105.7	130.5	136.7	143.0	149.2	143.0	149.2	149.2
82.5°	43.5	49.7	62.2	62.2	80.8	80.8	87.0	87.0	93.2	93.2	93.2
85°	24.8	43.5	37.3	74.5	49.7	49.7	62.2	74.5	62.2	62.2	74.5
87.5°	24.8	24.8	18.7	24.8	24.8	24.8	31.0	37.3	37.3	43.5	37.3
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: P249558

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11579.7	11579.7	11579.7	11579.7
2.5°	11598.4	11610.7	11592.1	11585.9
5°	11616.9	11616.9	11604.6	11604.6
7.5°	11616.9	11616.9	11598.4	11585.9
10°	11567.2	11567.2	11548.6	11536.2
12.5°	11474.0	11474.0	11467.7	11449.2
15°	11355.9	11355.9	11331.0	11312.5
17.5°	11194.3	11206.8	11175.7	11175.7
20°	11020.3	11014.1	10989.3	10976.8
22.5°	10840.1	10827.6	10821.4	10784.1
25°	10647.4	10634.9	10616.2	10597.6
27.5°	10318.0	10311.7	10293.0	10268.2
30°	9814.4	9808.2	9783.4	9783.4
32.5°	9161.8	9155.6	9130.8	9137.0
35°	8484.3	8509.2	8496.7	8471.9
37.5°	7918.7	7937.4	7949.8	7937.4
40°	7446.3	7502.2	7508.5	7520.9
42.5°	6942.9	7017.4	7042.3	7054.7
45°	6339.9	6408.3	6464.3	6451.8
47.5°	5724.5	5774.2	5824.0	5786.7
50°	5134.1	5165.1	5183.8	5183.8
52.5°	4574.7	4574.7	4568.5	4574.7
55°	3934.5	3934.5	3909.7	3922.0
57.5°	3263.2	3275.6	3256.9	3225.9
60°	2641.6	2610.6	2598.1	2579.5
62.5°	2057.4	2057.4	2013.9	2069.7
65°	1541.5	1522.8	1504.1	1497.9
67.5°	1118.7	1112.7	1094.0	1087.7
70°	789.3	764.5	758.3	745.8
72.5°	528.3	528.3	515.9	515.9
75°	323.2	292.2	285.9	292.2
77.5°	223.7	217.5	217.5	211.4
80°	149.2	143.0	155.4	136.7
82.5°	93.2	99.5	93.2	99.5
85°	62.2	74.5	68.4	68.4
87.5°	37.3	37.3	37.3	37.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)