

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: P249531

Luminaire Tested: **LD8B200D010 ER8B200830 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249531
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 ER8B200830 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20836.0 lumens
Efficiency: N/A
Efficacy: 93.3 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

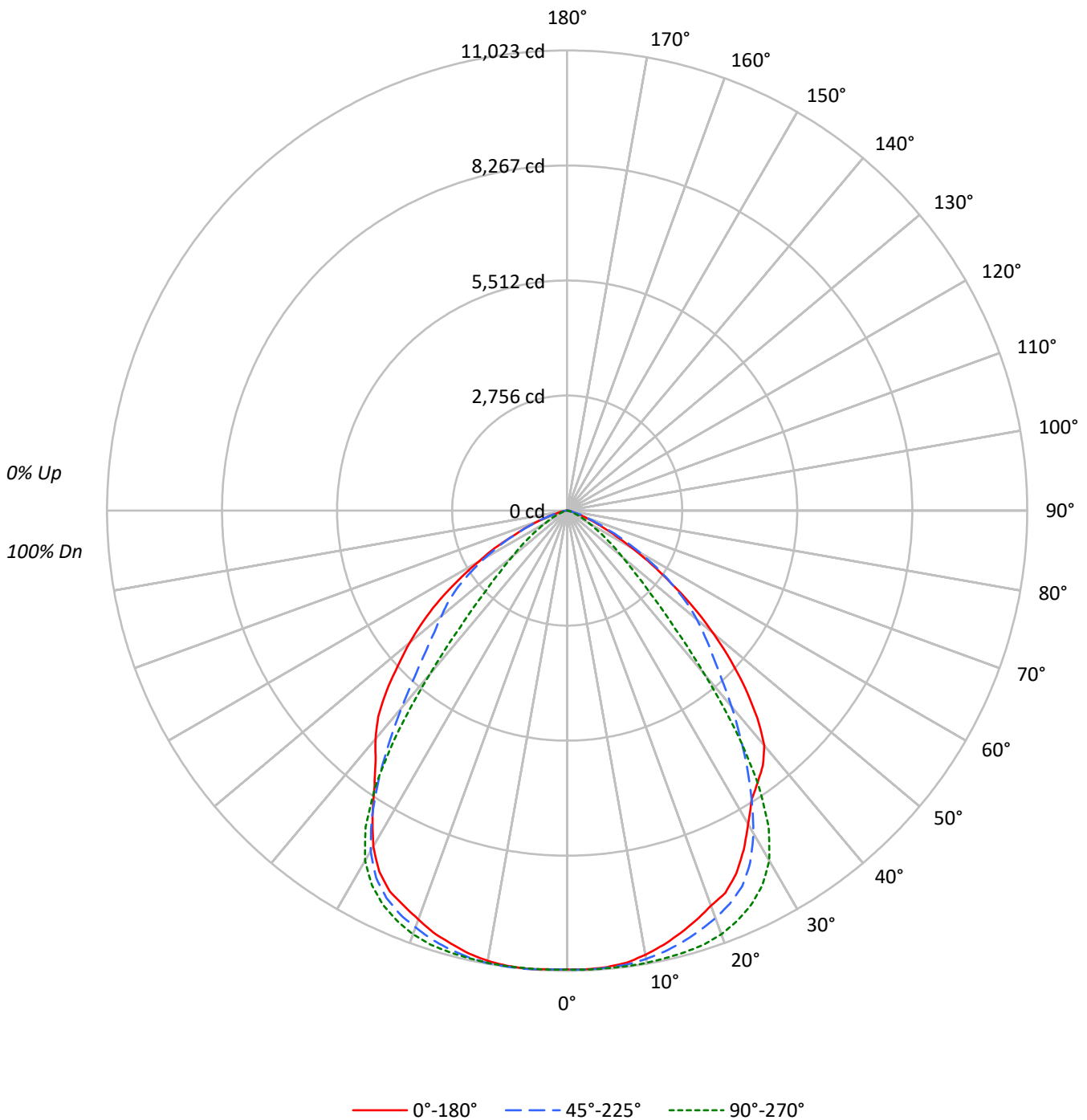
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	338999	338999	338999
5°	339743	340659	341028
10°	338314	344413	342935
15°	334565	349451	342858
20°	330549	354363	341972
25°	326257	354773	342323
30°	308660	344798	330719
35°	299444	299659	302776
40°	295734	206181	287421
45°	263513	123780	267115
50°	219111	82379	236093
55°	164333	56788	200181
60°	111362	37842	151030
65°	67172	24545	103763
70°	37245	13308	63842
75°	16871	5624	33050
80°	14668	6286	23050
85°	16700	8314	22997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.2	5.0
10°-20°	3046.9	14.6
20°-30°	4624.7	22.2
30°-40°	4857.3	23.3
40°-50°	3641.7	17.5
50°-60°	2336.6	11.2
60°-70°	999.6	4.8
70°-80°	236.2	1.1
80°-90°	43.9	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°	8720.8	41.9
0°-40°	13578.1	65.2
0°-60°	19556.4	93.9
0°-90°	20836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20836.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10994	10994	10994	10994	10994	
5°	10976	10994	11005	11023	11017	###
15°	10480	10698	10946	10876	10740	2956
25°	9589	9926	10427	10238	10061	4381
35°	7955	7512	7960	7866	8043	4992
45°	6043	4939	2838	4798	6125	4628
55°	3057	3057	1056	3186	3724	2773
65°	921	1086	336	1398	1422	983
75°	142	165	47	283	277	206
85°	47	30	24	47	65	50
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°	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5
2.5°	10999.4	11011.2	11005.3	11005.3	10999.4	11005.3	11005.3	11017.2	11017.2	11005.3	10999.4
5°	10975.7	10987.6	10987.6	10975.7	10975.7	11005.3	10987.6	10999.4	10999.4	10993.5	10993.5
7.5°	10922.7	10922.7	10946.3	10928.7	10928.7	10946.3	10940.4	10952.2	10964.0	10969.9	10969.9
10°	10804.6	10816.5	10822.4	10822.4	10828.3	10845.9	10857.8	10881.4	10893.1	10905.0	10910.9
12.5°	10657.2	10674.8	10680.7	10674.8	10692.6	10716.1	10745.7	10775.2	10792.9	10816.5	10834.2
15°	10480.0	10480.0	10491.9	10509.6	10521.5	10556.9	10586.3	10621.7	10668.9	10698.5	10728.0
17.5°	10285.4	10297.2	10314.9	10314.9	10338.5	10397.5	10415.2	10468.3	10521.5	10550.9	10610.0
20°	10073.0	10084.7	10102.5	10114.3	10143.8	10191.0	10226.4	10273.6	10332.6	10385.8	10444.7
22.5°	9907.7	9884.2	9895.9	9907.7	9937.3	9978.6	10019.9	10078.8	10137.8	10191.0	10250.0
25°	9589.0	9595.0	9612.7	9624.4	9659.9	9695.3	9742.5	9813.3	9866.4	9925.5	9990.3
27.5°	9158.3	9164.2	9193.7	9193.7	9223.2	9282.2	9311.7	9370.7	9441.6	9500.5	9577.3
30°	8668.6	8680.3	8680.3	8703.9	8721.6	8751.2	8780.6	8839.7	8875.0	8928.2	9034.4
32.5°	8220.1	8231.8	8225.9	8220.1	8202.3	8196.4	8190.5	8202.3	8214.2	8231.8	8273.1
35°	7954.6	7925.0	7901.4	7860.1	7812.9	7753.9	7700.7	7630.0	7565.0	7511.9	7453.0
37.5°	7700.7	7694.8	7659.4	7600.4	7506.0	7399.8	7275.9	7122.5	6969.0	6803.8	6644.5
40°	7346.7	7328.9	7299.5	7216.9	7110.6	6980.8	6815.6	6626.8	6378.9	6125.2	5865.6
42.5°	6744.8	6750.7	6715.3	6650.3	6550.1	6426.1	6255.0	6048.5	5783.0	5481.9	5145.7
45°	6042.6	6042.6	6030.8	5977.6	5906.9	5806.5	5676.7	5505.6	5246.0	4939.0	4579.1
47.5°	5310.8	5316.8	5299.0	5287.3	5257.7	5192.9	5098.4	4968.6	4785.7	4490.6	4130.6
50°	4567.4	4567.4	4596.8	4590.9	4590.9	4567.4	4526.1	4449.3	4290.0	4054.0	3717.7
52.5°	3823.8	3835.6	3853.4	3876.9	3906.4	3953.6	3906.4	3871.0	3770.7	3587.7	3298.7
55°	3056.7	3068.5	3098.0	3139.3	3174.8	3222.0	3233.7	3233.7	3180.6	3056.7	2838.4
57.5°	2401.7	2384.0	2407.7	2443.0	2490.2	2537.5	2572.8	2614.1	2608.2	2525.6	2348.6
60°	1805.7	1811.6	1829.2	1864.8	1900.1	1941.4	1988.6	2024.0	2041.8	2000.5	1888.3
62.5°	1315.9	1315.9	1339.5	1374.9	1392.6	1451.7	1481.1	1498.9	1516.5	1510.6	1439.8
65°	920.6	932.3	944.1	961.9	979.5	1014.9	1032.7	1068.0	1079.9	1085.8	1032.7
67.5°	649.2	631.4	643.2	654.9	672.7	696.4	731.8	731.8	749.4	749.4	714.0
70°	413.1	413.1	419.0	436.6	448.5	454.4	466.2	477.9	495.7	489.8	489.8
72.5°	277.4	271.4	277.4	283.3	289.2	306.8	306.8	312.7	324.6	330.5	306.8
75°	141.6	147.6	159.3	153.5	171.1	159.3	165.2	182.9	177.0	165.2	165.2
77.5°	118.0	118.0	118.0	112.2	123.9	123.9	118.0	129.8	123.9	123.9	118.0
80°	82.6	88.5	82.6	76.7	82.6	76.7	76.7	76.7	76.7	76.7	70.8
82.5°	65.0	53.1	59.1	53.1	59.1	59.1	53.1	47.2	47.2	53.1	47.2
85°	47.2	35.4	41.3	41.3	35.4	35.4	35.4	35.4	35.4	29.5	29.5
87.5°	29.5	17.8	17.8	17.8	23.5	23.5	23.5	17.8	23.5	23.5	11.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5
2.5°	11011.2	11005.3	11017.2	11011.2	11011.2	11005.3	11011.2	11005.3	11017.2	10993.5	10999.4
5°	11011.2	10999.4	11005.3	11011.2	11017.2	11005.3	11005.3	11005.3	11017.2	11005.3	11011.2
7.5°	10987.6	10981.6	10999.4	11011.2	11005.3	10999.4	11011.2	11005.3	11017.2	11011.2	11022.9
10°	10940.4	10946.3	10958.1	10975.7	10981.6	10987.6	10999.4	10999.4	11017.2	10993.5	11005.3
12.5°	10869.6	10893.1	10922.7	10934.4	10958.1	10958.1	10969.9	10975.7	10987.6	10981.6	10999.4
15°	10781.1	10810.5	10845.9	10875.5	10905.0	10922.7	10940.4	10946.3	10964.0	10946.3	10952.2
17.5°	10674.8	10710.2	10763.3	10798.7	10845.9	10863.7	10887.2	10899.1	10916.8	10905.0	10910.9
20°	10527.3	10568.7	10627.6	10680.7	10710.2	10751.5	10781.1	10798.7	10810.5	10798.7	10804.6
22.5°	10320.8	10379.8	10456.5	10497.8	10556.9	10592.2	10598.2	10639.4	10668.9	10639.4	10651.3
25°	10078.8	10137.8	10196.9	10285.4	10338.5	10379.8	10421.1	10427.1	10456.5	10450.6	10444.7
27.5°	9677.5	9754.4	9854.6	9925.5	9996.2	10061.2	10108.4	10120.1	10149.7	10137.8	10143.8
30°	9128.7	9211.5	9305.9	9417.9	9518.3	9583.1	9642.2	9683.5	9712.9	9695.3	9689.4
32.5°	8349.9	8432.5	8532.8	8644.9	8763.0	8857.3	8928.2	8981.3	9016.7	9004.8	8975.4
35°	7458.9	7482.4	7547.4	7635.9	7736.1	7836.5	7901.4	7960.3	8001.6	8013.5	8013.5
37.5°	6544.2	6467.5	6420.3	6420.3	6479.2	6520.5	6579.6	6614.9	6679.9	6703.5	6721.2
40°	5659.0	5481.9	5316.8	5192.9	5110.3	5104.4	5104.4	5122.0	5181.0	5257.7	5328.6
42.5°	4868.3	4585.0	4331.3	4101.2	3936.0	3841.6	3800.3	3806.2	3853.4	3924.1	4042.1
45°	4236.9	3882.9	3564.2	3286.8	3062.6	2915.0	2844.3	2838.4	2873.7	2956.3	3086.3
47.5°	3747.1	3369.4	3009.5	2690.8	2448.9	2289.5	2207.0	2183.4	2207.0	2283.6	2437.1
50°	3340.0	2950.5	2578.8	2248.3	1988.6	1823.5	1746.7	1717.2	1746.7	1811.6	1965.0
52.5°	2962.2	2561.0	2212.9	1894.2	1616.8	1475.2	1392.6	1374.9	1392.6	1469.3	1593.3
55°	2525.6	2183.4	1841.1	1522.4	1280.6	1138.9	1074.0	1056.3	1074.0	1144.8	1274.6
57.5°	2094.9	1799.8	1498.9	1209.7	1003.2	879.2	820.3	796.6	837.9	885.1	1038.6
60°	1693.5	1457.6	1203.8	950.1	779.0	666.8	619.6	613.6	625.5	684.5	790.7
62.5°	1327.8	1133.0	932.3	725.8	584.2	537.0	477.9	472.1	483.8	519.2	601.9
65°	956.0	832.1	678.6	531.1	419.0	354.0	330.5	336.4	348.1	371.8	448.5
67.5°	666.8	578.3	472.1	371.8	289.2	259.6	236.1	230.2	236.1	277.4	318.7
70°	448.5	395.3	318.7	283.3	200.7	159.3	165.2	147.6	171.1	171.1	206.5
72.5°	295.0	259.6	212.4	165.2	141.6	112.2	112.2	106.3	118.0	123.9	153.5
75°	153.5	118.0	118.0	82.6	59.1	29.5	53.1	47.2	41.3	47.2	59.1
77.5°	106.3	88.5	82.6	65.0	59.1	47.2	47.2	47.2	47.2	53.1	59.1
80°	65.0	65.0	47.2	41.3	35.4	29.5	35.4	35.4	35.4	35.4	41.3
82.5°	41.3	35.4	35.4	29.5	29.5	23.5	23.5	23.5	23.5	23.5	35.4
85°	35.4	23.5	23.5	17.8	23.5	41.3	17.8	23.5	23.5	23.5	17.8
87.5°	11.8	17.8	17.8	17.8	11.8	5.9	11.8	17.8	17.8	29.5	23.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5	10993.5
2.5°	11011.2	11017.2	11017.2	11011.2	11011.2	10999.4	11022.9	11005.3	11011.2	11034.8	11017.2
5°	11022.9	11028.9	11028.9	11022.9	11022.9	11022.9	11028.9	11028.9	11022.9	11017.2	11028.9
7.5°	11046.6	11040.7	11040.7	11028.9	11028.9	11017.2	11028.9	11011.2	11022.9	11011.2	11028.9
10°	11017.2	11022.9	11017.2	11011.2	11011.2	11005.3	11005.3	10987.6	10993.5	10975.7	10987.6
12.5°	10999.4	10993.5	10993.5	10981.6	10969.9	10958.1	10952.2	10934.4	10934.4	10893.1	10910.9
15°	10952.2	10958.1	10940.4	10916.8	10905.0	10875.5	10863.7	10840.0	10816.5	10787.0	10792.9
17.5°	10910.9	10893.1	10869.6	10845.9	10798.7	10775.2	10751.5	10716.1	10704.3	10668.9	10657.2
20°	10787.0	10775.2	10745.7	10704.3	10674.8	10621.7	10598.2	10562.8	10533.2	10497.8	10480.0
22.5°	10627.6	10615.8	10580.4	10539.1	10491.9	10468.3	10444.7	10379.8	10350.2	10314.9	10308.9
25°	10427.1	10409.3	10373.9	10326.7	10303.0	10238.2	10214.5	10167.3	10155.6	10120.1	10114.3
27.5°	10120.1	10096.6	10055.3	9996.2	9954.9	9913.6	9890.1	9854.6	9842.9	9807.3	9801.6
30°	9659.9	9630.3	9547.7	9524.2	9453.3	9412.0	9412.0	9364.8	9370.7	9347.2	9347.2
32.5°	8934.1	8886.9	8821.9	8774.7	8727.5	8703.9	8703.9	8686.2	8698.0	8698.0	8709.9
35°	7972.2	7907.4	7871.8	7842.4	7842.4	7865.9	7936.8	7954.6	7989.9	8019.4	8043.1
37.5°	6738.8	6733.1	6774.3	6809.7	6898.2	6998.6	7122.5	7228.7	7328.9	7399.8	7470.6
40°	5405.3	5552.8	5670.8	5836.1	5971.7	6166.5	6390.7	6573.7	6744.8	6868.8	6998.6
42.5°	4219.1	4408.0	4655.9	4897.8	5139.7	5405.3	5700.4	5954.1	6178.3	6349.4	6485.1
45°	3286.8	3546.4	3847.5	4154.3	4467.0	4797.5	5104.4	5364.0	5600.0	5777.1	5912.8
47.5°	2649.5	2932.8	3275.0	3611.4	3965.4	4313.6	4655.9	4880.1	5074.8	5216.4	5340.4
50°	2189.2	2490.2	2850.2	3233.7	3587.7	3936.0	4231.0	4449.3	4608.7	4732.6	4809.2
52.5°	1829.2	2147.9	2531.5	2915.0	3269.1	3587.7	3853.4	4018.6	4148.4	4236.9	4307.6
55°	1510.6	1817.5	2177.5	2537.5	2885.6	3186.5	3404.8	3528.8	3629.0	3682.2	3723.5
57.5°	1233.4	1516.5	1847.0	2177.5	2478.4	2726.3	2897.4	3021.3	3068.5	3109.8	3103.9
60°	967.8	1233.4	1534.3	1817.5	2077.2	2277.7	2401.7	2472.5	2507.9	2525.6	2513.8
62.5°	761.2	1003.2	1233.4	1481.1	1670.0	1841.1	1959.2	1959.2	1976.8	1982.7	2000.5
65°	566.4	749.4	950.1	1133.0	1286.3	1398.5	1463.5	1481.1	1504.8	1498.9	1487.0
67.5°	419.0	554.7	702.2	837.9	944.1	1014.9	1062.1	1103.5	1097.6	1085.8	1079.9
70°	289.2	377.7	507.5	590.1	666.8	737.7	749.4	755.3	761.2	767.1	755.3
72.5°	200.7	265.5	336.4	407.2	454.4	483.8	513.4	519.2	519.2	519.2	513.4
75°	100.3	135.7	200.7	230.2	271.4	283.3	306.8	306.8	324.6	300.9	295.0
77.5°	88.5	106.3	141.6	165.2	182.9	200.7	206.5	224.2	218.3	206.5	212.4
80°	53.1	65.0	88.5	100.3	123.9	129.8	135.7	141.6	135.7	141.6	141.6
82.5°	41.3	47.2	59.1	59.1	76.7	76.7	82.6	82.6	88.5	88.5	88.5
85°	23.5	41.3	35.4	70.8	47.2	47.2	59.1	70.8	59.1	59.1	70.8
87.5°	23.5	23.5	17.8	23.5	23.5	23.5	29.5	35.4	35.4	41.3	35.4
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: P249531

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10993.5	10993.5	10993.5	10993.5
2.5°	11011.2	11022.9	11005.3	10999.4
5°	11028.9	11028.9	11017.2	11017.2
7.5°	11028.9	11028.9	11011.2	10999.4
10°	10981.6	10981.6	10964.0	10952.2
12.5°	10893.1	10893.1	10887.2	10869.6
15°	10781.1	10781.1	10757.4	10739.8
17.5°	10627.6	10639.4	10610.0	10610.0
20°	10462.4	10456.5	10433.0	10421.1
22.5°	10291.3	10279.5	10273.6	10238.2
25°	10108.4	10096.6	10078.8	10061.2
27.5°	9795.6	9789.7	9772.0	9748.4
30°	9317.6	9311.7	9288.1	9288.1
32.5°	8698.0	8692.1	8668.6	8674.5
35°	8054.8	8078.5	8066.6	8043.1
37.5°	7517.8	7535.6	7547.4	7535.6
40°	7069.3	7122.5	7128.4	7140.2
42.5°	6591.4	6662.2	6685.8	6697.5
45°	6018.9	6083.9	6137.0	6125.2
47.5°	5434.7	5481.9	5529.2	5493.8
50°	4874.2	4903.7	4921.4	4921.4
52.5°	4343.2	4343.2	4337.2	4343.2
55°	3735.3	3735.3	3711.8	3723.5
57.5°	3098.0	3109.8	3092.1	3062.6
60°	2507.9	2478.4	2466.6	2448.9
62.5°	1953.3	1953.3	1912.0	1965.0
65°	1463.5	1445.7	1428.0	1422.1
67.5°	1062.1	1056.3	1038.6	1032.7
70°	749.4	725.8	719.9	708.1
72.5°	501.6	501.6	489.8	489.8
75°	306.8	277.4	271.4	277.4
77.5°	212.4	206.5	206.5	200.7
80°	141.6	135.7	147.6	129.8
82.5°	88.5	94.4	88.5	94.4
85°	59.1	70.8	65.0	65.0
87.5°	35.4	35.4	35.4	35.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)