

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: P249783

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009730 8LBSWOLI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16842.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

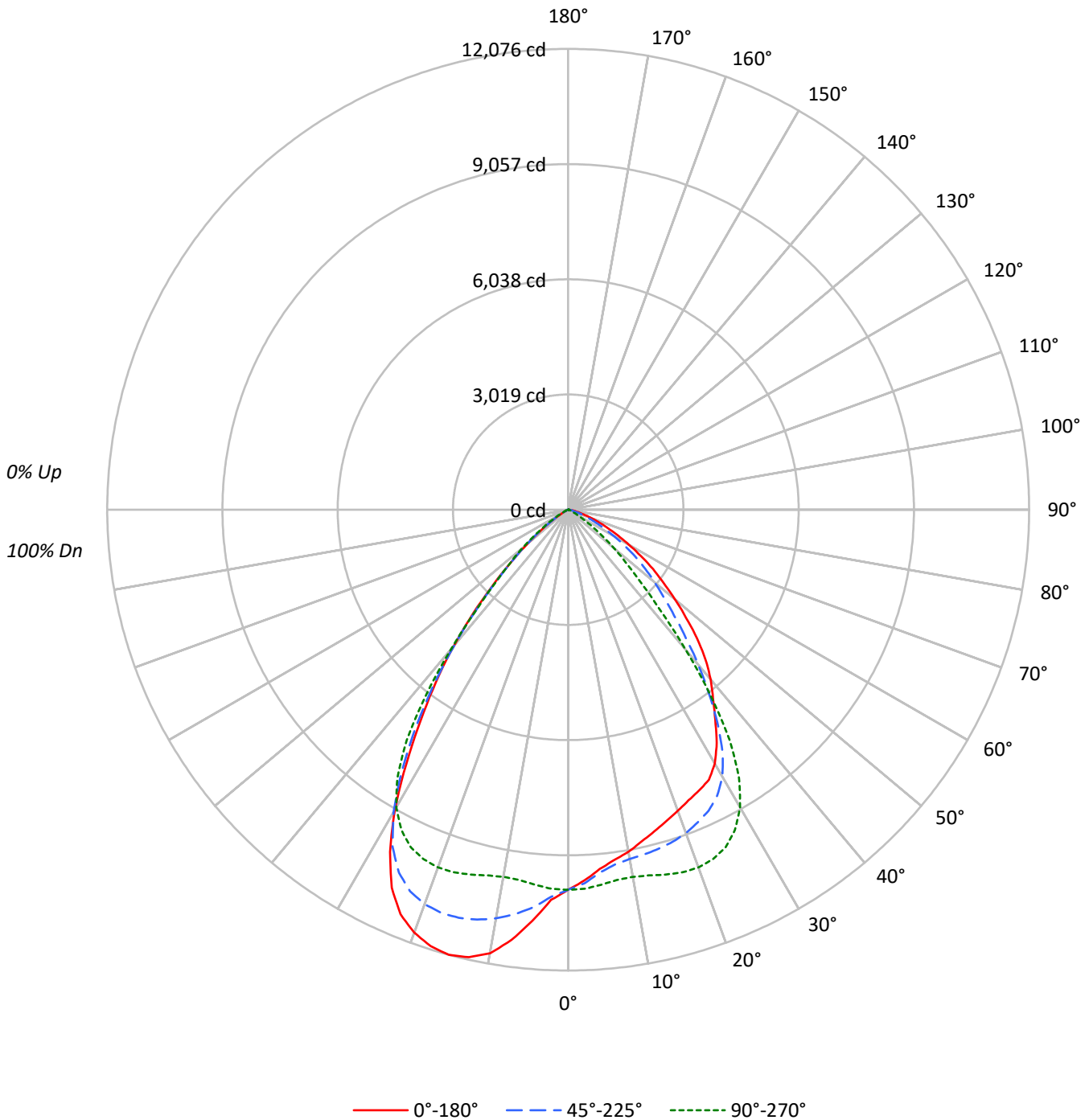
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249783

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0LI

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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

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°	957.4	5.7
10°-20°	2865.3	17.0
20°-30°	4387.9	26.1
30°-40°	4301.6	25.5
40°-50°	2590.4	15.4
50°-60°	1192.3	7.1
60°-70°	418.8	2.5
70°-80°	109.6	0.7
80°-90°	18.7	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°	8210.6	48.8
0°-40°	12512.2	74.3
0°-60°	16294.9	96.8
0°-90°	16842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16842.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9959	9959	9959	9959	9959	
5°	9452	9540	9866	10457	10815	893
15°	8726	9196	9898	11071	12076	2465
25°	8116	8702	9759	10494	10931	3738
35°	6715	6808	7371	6948	6724	4206
45°	4770	3928	2662	2680	2750	3658
55°	2708	2145	763	600	577	2417
65°	1150	796	121	60	65	1171
75°	298	172	9	0	0	361
85°	46	23	5	0	0	64
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°	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7
2.5°	9726.0	9735.4	9735.4	9735.4	9753.9	9758.7	9753.9	9758.7	9767.9	9800.5	9814.5
5°	9451.5	9437.5	9446.9	9442.1	9465.5	9479.5	9470.1	9484.1	9516.6	9540.0	9563.2
7.5°	9256.1	9256.1	9256.1	9265.3	9279.3	9307.3	9302.7	9311.9	9344.4	9377.0	9409.5
10°	9102.5	9097.9	9097.9	9121.1	9139.7	9172.2	9181.6	9209.6	9251.3	9293.3	9330.4
12.5°	8902.3	8907.1	8930.3	8953.7	8995.4	9046.6	9074.5	9111.9	9177.0	9246.7	9288.7
15°	8725.5	8730.1	8748.9	8795.3	8846.6	8907.1	8967.5	9028.0	9107.1	9195.6	9270.1
17.5°	8553.3	8557.9	8571.9	8623.2	8688.4	8767.5	8837.2	8916.3	9018.8	9121.1	9214.2
20°	8395.1	8390.5	8413.7	8460.2	8544.1	8618.5	8688.4	8781.5	8893.1	9018.8	9125.7
22.5°	8241.5	8241.5	8264.9	8311.4	8385.9	8460.2	8534.8	8632.4	8744.1	8865.2	8990.8
25°	8115.8	8111.2	8143.8	8167.2	8222.9	8297.4	8376.5	8455.6	8567.3	8702.4	8823.2
27.5°	7981.0	7976.4	7981.0	8009.0	8060.1	8115.8	8176.4	8246.3	8339.4	8451.0	8567.3
30°	7683.1	7687.7	7687.7	7711.1	7739.1	7799.4	7832.0	7901.9	7985.6	8078.7	8181.2
32.5°	7241.0	7245.6	7245.6	7255.0	7278.2	7306.2	7334.1	7385.3	7450.4	7529.5	7622.6
35°	6715.2	6715.2	6710.5	6715.2	6729.2	6729.2	6752.4	6729.2	6761.8	6808.3	6878.1
37.5°	6231.2	6221.8	6212.6	6203.2	6189.3	6166.1	6133.5	6077.6	6063.6	6045.0	6049.6
40°	5803.1	5798.5	5770.5	5747.2	5700.6	5644.9	5565.8	5468.1	5389.0	5295.9	5216.8
42.5°	5328.4	5323.7	5300.5	5258.5	5207.4	5123.7	4998.0	4867.8	4709.6	4569.9	4425.7
45°	4769.9	4783.9	4751.3	4704.8	4644.2	4565.1	4425.7	4267.3	4109.1	3927.7	3746.1
47.5°	4188.2	4183.6	4160.4	4132.4	4081.3	4002.2	3909.1	3736.9	3569.3	3401.9	3215.7
50°	3648.4	3629.8	3620.4	3592.7	3560.1	3495.0	3397.1	3257.4	3108.6	2950.4	2778.2
52.5°	3136.6	3136.6	3113.2	3094.6	3066.7	3015.5	2931.8	2820.1	2694.5	2545.5	2364.1
55°	2708.5	2699.1	2675.9	2652.5	2624.6	2592.0	2517.7	2424.6	2289.6	2145.3	1987.1
57.5°	2252.4	2247.6	2238.4	2210.5	2196.5	2163.9	2080.2	1987.1	1870.8	1745.2	1614.7
60°	1842.9	1824.3	1805.5	1786.9	1763.8	1731.2	1675.3	1596.2	1498.5	1386.8	1256.5
62.5°	1475.3	1503.1	1447.3	1447.3	1400.8	1372.8	1321.7	1275.1	1172.6	1070.4	958.7
65°	1149.5	1149.5	1126.1	1107.5	1079.6	1047.0	995.9	949.3	874.8	795.7	716.6
67.5°	879.6	874.8	851.6	833.0	809.7	791.1	753.9	698.0	642.3	577.1	511.8
70°	646.9	642.3	637.5	604.9	586.3	563.1	535.2	498.0	456.1	409.5	349.0
72.5°	465.3	465.3	451.5	437.5	418.9	400.1	372.4	349.0	311.8	279.3	237.3
75°	297.9	293.3	293.3	269.9	269.9	241.9	223.3	209.4	190.8	172.2	135.0
77.5°	214.1	209.4	204.8	195.4	186.2	176.8	162.8	144.2	130.3	111.7	97.7
80°	144.2	135.0	130.3	130.3	116.3	111.7	116.3	88.5	83.7	69.7	60.5
82.5°	88.5	88.5	83.7	83.7	79.1	74.5	60.5	60.5	55.9	51.1	41.9
85°	46.5	60.5	41.9	46.5	41.9	46.5	41.9	32.6	28.0	23.2	23.2
87.5°	28.0	18.6	18.6	28.0	23.2	18.6	18.6	18.6	14.0	9.4	9.4
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°	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7
2.5°	9805.3	9837.8	9833.1	9875.0	9889.0	9921.6	9921.6	9944.7	9958.7	9991.3	10019.2
5°	9572.6	9623.7	9637.7	9688.8	9730.8	9781.9	9814.5	9865.6	9912.2	9982.1	10047.2
7.5°	9428.3	9470.1	9498.0	9558.6	9605.1	9660.9	9716.8	9786.5	9851.6	9935.5	10028.6
10°	9358.4	9414.3	9456.1	9516.6	9572.6	9633.1	9688.8	9767.9	9842.4	9949.5	10051.8
12.5°	9339.8	9404.9	9456.1	9540.0	9595.7	9660.9	9726.0	9814.5	9893.6	10005.3	10121.7
15°	9339.8	9428.3	9498.0	9591.1	9656.3	9740.0	9809.9	9898.2	9986.7	10102.9	10214.6
17.5°	9321.2	9428.3	9516.6	9623.7	9707.4	9791.3	9879.6	9963.5	10056.4	10168.3	10293.7
20°	9246.7	9381.8	9488.7	9614.3	9702.8	9795.9	9884.4	9977.3	10075.2	10191.4	10298.5
22.5°	9116.5	9274.7	9395.8	9530.6	9633.1	9726.0	9814.5	9907.6	10014.6	10126.3	10238.0
25°	8944.3	9093.1	9223.6	9363.0	9465.5	9567.8	9651.7	9758.7	9856.4	9963.5	10051.8
27.5°	8683.6	8841.8	8967.5	9111.9	9204.8	9302.7	9372.4	9460.9	9554.0	9642.3	9712.2
30°	8292.8	8437.1	8567.3	8697.6	8790.7	8860.6	8934.9	9004.8	9065.3	9125.7	9186.2
32.5°	7720.3	7850.7	7976.4	8097.3	8171.8	8232.3	8288.0	8330.0	8362.6	8395.1	8399.7
35°	6934.0	7040.9	7120.0	7227.1	7297.0	7352.7	7352.7	7371.3	7366.7	7352.7	7338.7
37.5°	6054.4	6096.2	6128.7	6170.7	6175.3	6175.3	6147.5	6124.1	6087.0	6077.6	6049.6
40°	5137.7	5081.7	5039.8	4984.0	4951.5	4881.6	4821.2	4779.3	4718.8	4709.6	4700.2
42.5°	4267.3	4137.0	4020.8	3923.1	3811.4	3713.5	3625.2	3560.1	3513.5	3508.8	3513.5
45°	3560.1	3411.1	3238.9	3104.0	2978.4	2857.3	2741.0	2661.9	2620.0	2610.6	2620.0
47.5°	3024.9	2852.7	2685.1	2531.5	2396.6	2261.6	2145.3	2038.2	1987.1	1973.1	1968.5
50°	2601.4	2424.6	2247.6	2089.4	1940.6	1805.5	1661.3	1559.0	1493.9	1470.5	1451.9
52.5°	2187.3	2029.1	1847.5	1684.7	1535.6	1377.4	1228.6	1112.1	1047.0	1019.2	1000.4
55°	1824.3	1666.1	1498.5	1340.3	1182.0	1023.8	874.8	763.1	693.4	660.8	637.5
57.5°	1456.5	1307.7	1163.5	1005.2	874.8	721.4	572.3	474.7	414.1	377.0	358.4
60°	1126.1	1009.8	884.2	753.9	628.3	502.6	381.6	288.5	241.9	214.1	190.8
62.5°	851.6	753.9	670.0	558.4	460.7	353.6	260.7	186.2	144.2	121.1	111.7
65°	614.3	539.8	465.3	395.5	325.8	246.7	176.8	121.1	83.7	69.7	65.1
67.5°	437.5	377.0	321.0	274.5	223.3	176.8	125.7	83.7	65.1	55.9	51.1
70°	307.0	260.7	223.3	181.6	148.8	116.3	97.7	60.5	37.2	41.9	32.6
72.5°	204.8	172.2	153.6	125.7	102.3	83.7	60.5	41.9	41.9	32.6	28.0
75°	111.7	102.3	79.1	60.5	51.1	46.5	18.6	9.4	4.6	14.0	4.6
77.5°	79.1	69.7	60.5	51.1	41.9	32.6	18.6	18.6	14.0	18.6	9.4
80°	51.1	41.9	37.2	37.2	23.2	14.0	9.4	9.4	14.0	4.6	4.6
82.5°	32.6	28.0	23.2	23.2	23.2	14.0	14.0	14.0	14.0	9.4	9.4
85°	18.6	14.0	9.4	9.4	4.6	9.4	0.0	4.6	4.6	0.0	0.0
87.5°	9.4	4.6	4.6	4.6	4.6	0.0	0.0	4.6	0.0	4.6	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7	9958.7
2.5°	10037.8	10056.4	10079.8	10098.3	10140.3	10149.5	10168.3	10186.8	10200.8	10214.6	10219.4
5°	10102.9	10172.9	10238.0	10307.7	10396.2	10456.7	10526.5	10587.0	10647.5	10698.7	10735.8
7.5°	10121.7	10228.6	10326.5	10447.3	10577.6	10689.5	10805.7	10922.0	11043.1	11136.1	11215.3
10°	10158.9	10289.1	10414.8	10559.0	10726.6	10875.5	11019.7	11173.3	11326.9	11457.2	11573.6
12.5°	10224.0	10368.2	10503.3	10661.5	10833.7	11001.1	11159.3	11331.5	11494.5	11638.8	11769.0
15°	10331.1	10465.9	10596.4	10745.2	10917.4	11071.0	11229.2	11396.7	11559.7	11708.5	11829.5
17.5°	10400.8	10526.5	10656.7	10791.7	10936.0	11075.6	11224.5	11373.5	11522.3	11657.3	11769.0
20°	10400.8	10521.9	10619.5	10740.6	10875.5	10996.5	11117.6	11247.8	11378.1	11489.7	11596.8
22.5°	10317.1	10433.4	10507.9	10601.0	10717.2	10819.7	10884.8	11029.1	11126.8	11224.5	11303.6
25°	10121.7	10205.4	10266.0	10331.1	10424.2	10493.9	10549.8	10633.5	10731.2	10768.6	10824.3
27.5°	9767.9	9828.5	9861.0	9875.0	9921.6	9958.7	9968.1	10005.3	10047.2	10056.4	10079.8
30°	9209.6	9214.2	9200.2	9195.6	9172.2	9144.4	9139.7	9135.1	9116.5	9097.9	9102.5
32.5°	8367.1	8344.0	8288.0	8227.7	8167.2	8102.0	8064.7	8018.1	7990.2	7962.4	7929.8
35°	7278.2	7222.5	7143.4	7068.8	6999.1	6947.8	6864.1	6836.1	6808.3	6771.0	6761.8
37.5°	5998.5	5965.9	5891.4	5835.7	5798.5	5775.1	5733.2	5705.4	5705.4	5691.4	5682.0
40°	4676.8	4667.6	4639.6	4653.6	4635.0	4644.2	4639.6	4630.3	4653.6	4653.6	4663.0
42.5°	3508.8	3513.5	3527.5	3536.7	3564.7	3569.3	3592.7	3592.7	3606.6	3620.4	3629.8
45°	2610.6	2629.4	2629.4	2647.9	2675.9	2680.5	2689.7	2694.5	2703.7	2727.1	2736.2
47.5°	1959.1	1963.7	1963.7	1968.5	1977.7	1987.1	1982.5	1987.1	2001.1	1991.7	2001.1
50°	1447.3	1451.9	1437.9	1424.0	1437.9	1437.9	1433.3	1419.4	1433.3	1414.8	1424.0
52.5°	986.7	981.9	967.9	972.7	963.3	958.7	958.7	949.3	949.3	949.3	930.7
55°	623.7	623.7	614.3	614.3	609.7	600.3	595.7	590.9	586.3	581.7	581.7
57.5°	349.0	353.6	339.8	335.0	339.8	335.0	325.8	325.8	325.8	311.8	321.0
60°	190.8	186.2	181.6	176.8	172.2	176.8	176.8	167.6	167.6	167.6	172.2
62.5°	102.3	102.3	97.7	97.7	93.1	93.1	102.3	88.5	93.1	88.5	93.1
65°	55.9	69.7	51.1	51.1	65.1	60.5	55.9	55.9	60.5	51.1	55.9
67.5°	60.5	41.9	37.2	41.9	37.2	37.2	37.2	46.5	41.9	32.6	41.9
70°	28.0	32.6	32.6	23.2	37.2	18.6	32.6	18.6	28.0	23.2	28.0
72.5°	28.0	28.0	28.0	18.6	28.0	18.6	23.2	23.2	18.6	18.6	28.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.4	9.4	4.6	4.6	4.6	4.6	9.4	9.4	9.4	0.0	4.6
80°	9.4	9.4	0.0	4.6	0.0	0.0	4.6	0.0	4.6	0.0	9.4
82.5°	4.6	9.4	4.6	4.6	9.4	9.4	9.4	4.6	4.6	4.6	4.6
85°	0.0	4.6	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	4.6
87.5°	0.0	4.6	0.0	0.0	0.0	0.0	4.6	4.6	0.0	0.0	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



TEST NUMBER: P249783

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9958.7	9958.7	9958.7	9958.7
2.5°	10224.0	10228.6	10238.0	10233.4
5°	10763.8	10801.1	10819.7	10815.1
7.5°	11271.0	11336.3	11373.5	11373.5
10°	11661.9	11736.5	11792.2	11801.6
12.5°	11871.3	11955.2	12029.7	12010.9
15°	11931.8	12015.7	12090.1	12076.1
17.5°	11862.1	11945.8	12001.7	11992.4
20°	11671.3	11741.1	11797.0	11792.2
22.5°	11373.5	11434.0	11480.5	11475.8
25°	10870.9	10912.8	10950.0	10931.4
27.5°	10098.3	10112.3	10135.5	10107.7
30°	9069.9	9079.1	9088.5	9083.9
32.5°	7915.9	7911.1	7901.9	7892.5
35°	6747.8	6747.8	6752.4	6724.4
37.5°	5686.6	5682.0	5696.0	5682.0
40°	4672.2	4667.6	4686.2	4663.0
42.5°	3643.8	3657.8	3662.4	3662.4
45°	2741.0	2745.6	2750.2	2750.2
47.5°	2001.1	2005.7	2029.1	2001.1
50°	1414.8	1419.4	1424.0	1414.8
52.5°	935.3	940.1	935.3	921.3
55°	572.3	577.1	577.1	577.1
57.5°	307.0	311.8	311.8	307.0
60°	167.6	162.8	167.6	158.2
62.5°	88.5	97.7	93.1	83.7
65°	55.9	55.9	55.9	65.1
67.5°	46.5	37.2	41.9	32.6
70°	28.0	32.6	32.6	23.2
72.5°	23.2	23.2	23.2	28.0
75°	0.0	0.0	0.0	0.0
77.5°	9.4	9.4	9.4	4.6
80°	4.6	0.0	4.6	0.0
82.5°	4.6	4.6	9.4	4.6
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)