

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: P249414

Luminaire Tested: **LD8B200D010 ER8B200827 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249414
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 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18192.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

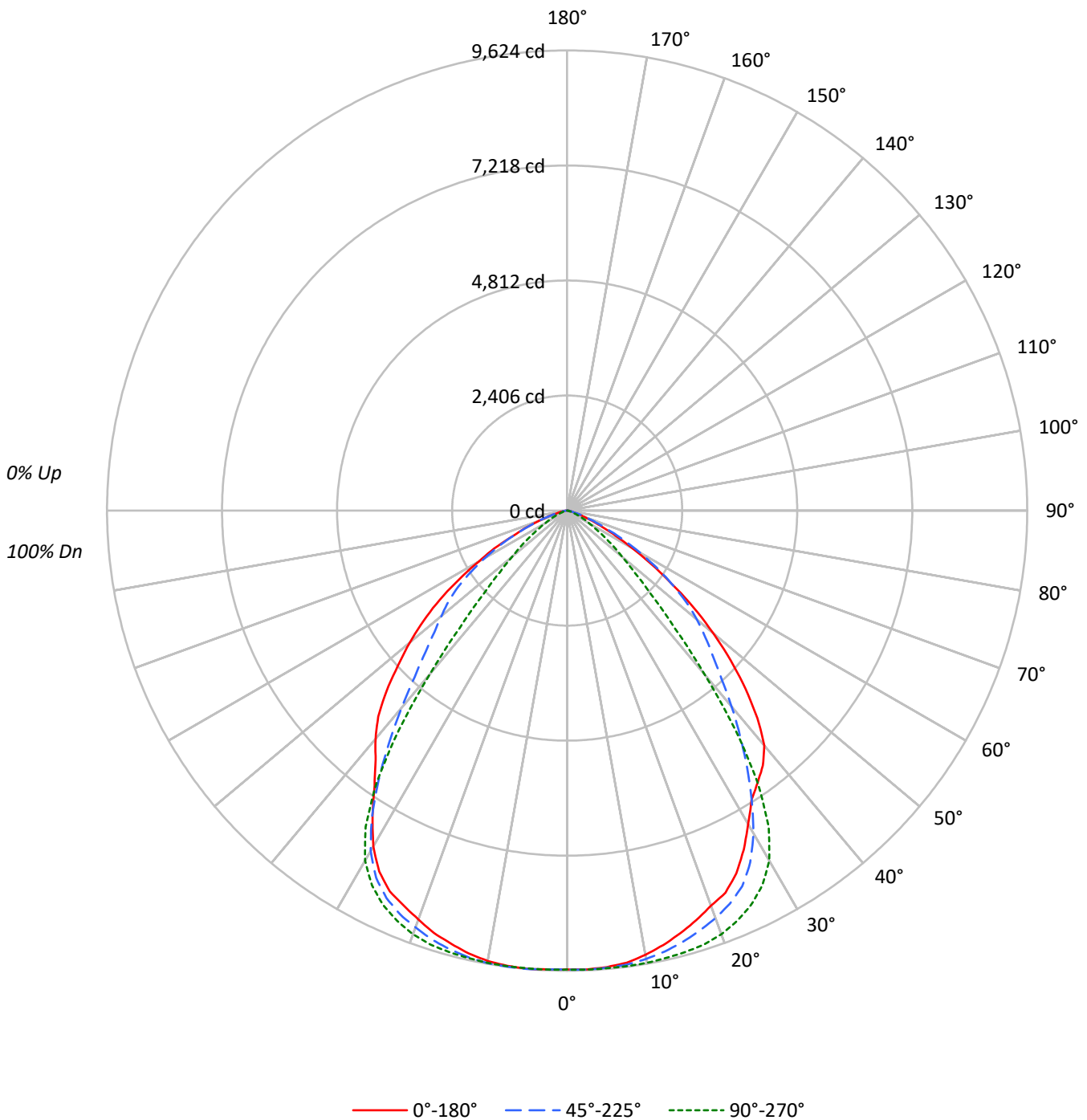
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	295982	295982	295982
5°	296633	297432	297751
10°	295385	300708	299418
15°	292112	305105	299352
20°	288604	309396	298577
25°	284857	309752	298885
30°	269493	301044	288753
35°	261446	261635	264353
40°	258205	180016	250951
45°	230073	108072	233217
50°	191306	71926	206134
55°	143479	49584	174779
60°	97233	33044	131868
65°	58649	21430	90593
70°	32520	11613	55737
75°	14738	4909	28856
80°	12803	5487	20120
85°	14577	7288	20061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.0	5.0
10°-20°	2660.3	14.6
20°-30°	4037.8	22.2
30°-40°	4240.9	23.3
40°-50°	3179.6	17.5
50°-60°	2040.1	11.2
60°-70°	872.7	4.8
70°-80°	206.2	1.1
80°-90°	38.4	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°	7614.2	41.9
0°-40°	11855.1	65.2
0°-60°	17074.7	93.9
0°-90°	18192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18192.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9598	9598	9598	9598	9598	
5°	9583	9598	9609	9624	9619	910
15°	9150	9341	9557	9496	9377	2581
25°	8372	8666	9104	8939	8784	3825
35°	6945	6559	6950	6868	7022	4359
45°	5276	4312	2478	4189	5348	4040
55°	2669	2669	922	2782	3251	2421
65°	804	948	294	1221	1242	858
75°	124	144	41	247	242	180
85°	41	26	21	41	57	43
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°	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5
2.5°	9603.6	9614.0	9608.8	9608.8	9603.6	9608.8	9608.8	9619.1	9619.1	9608.8	9603.6
5°	9583.0	9593.3	9593.3	9583.0	9583.0	9608.8	9593.3	9603.6	9603.6	9598.5	9598.5
7.5°	9536.7	9536.7	9557.2	9541.9	9541.9	9557.2	9552.1	9562.4	9572.7	9577.9	9577.9
10°	9433.6	9443.9	9449.1	9449.1	9454.2	9469.6	9480.0	9500.6	9510.8	9521.2	9526.3
12.5°	9304.8	9320.2	9325.4	9320.2	9335.7	9356.3	9382.1	9407.8	9423.3	9443.9	9459.4
15°	9150.2	9150.2	9160.5	9176.0	9186.3	9217.2	9243.0	9273.8	9315.1	9340.9	9366.6
17.5°	8980.2	8990.6	9006.0	9006.0	9026.6	9078.1	9093.6	9140.0	9186.3	9212.1	9263.6
20°	8794.8	8805.0	8820.5	8830.8	8856.6	8897.8	8928.7	8969.9	9021.5	9067.8	9119.3
22.5°	8650.4	8629.9	8640.1	8650.4	8676.3	8712.3	8748.4	8799.8	8851.4	8897.8	8949.3
25°	8372.2	8377.4	8392.9	8403.1	8434.1	8465.0	8506.2	8568.0	8614.4	8666.0	8722.6
27.5°	7996.2	8001.3	8027.1	8027.1	8052.8	8104.3	8130.1	8181.6	8243.5	8294.9	8362.0
30°	7568.6	7578.8	7578.8	7599.4	7614.8	7640.7	7666.4	7717.9	7748.8	7795.2	7888.0
32.5°	7177.0	7187.2	7182.0	7177.0	7161.5	7156.3	7151.2	7161.5	7171.8	7187.2	7223.3
35°	6945.2	6919.3	6898.8	6862.7	6821.5	6769.9	6723.5	6661.8	6605.0	6558.7	6507.2
37.5°	6723.5	6718.4	6687.5	6635.9	6553.5	6460.8	6352.7	6218.7	6084.7	5940.4	5801.4
40°	6414.4	6398.9	6373.2	6301.1	6208.3	6095.0	5950.8	5785.9	5569.4	5347.9	5121.3
42.5°	5888.9	5894.0	5863.2	5806.4	5718.9	5610.6	5461.3	5281.0	5049.2	4786.3	4492.7
45°	5275.8	5275.8	5265.5	5219.1	5157.3	5069.7	4956.4	4807.0	4580.3	4312.3	3998.0
47.5°	4636.9	4642.1	4626.6	4616.4	4590.5	4533.9	4451.5	4338.1	4178.4	3920.7	3606.5
50°	3987.8	3987.8	4013.5	4008.4	4008.4	3987.8	3951.8	3884.7	3745.6	3539.5	3245.9
52.5°	3338.6	3348.9	3364.4	3385.0	3410.7	3451.9	3410.7	3379.8	3292.2	3132.5	2880.1
55°	2668.8	2679.1	2704.9	2740.9	2771.9	2813.1	2823.4	2823.4	2777.0	2668.8	2478.2
57.5°	2097.0	2081.5	2102.1	2133.0	2174.2	2215.5	2246.4	2282.4	2277.2	2205.1	2050.6
60°	1576.6	1581.7	1597.1	1628.1	1659.0	1695.1	1736.3	1767.2	1782.7	1746.6	1648.7
62.5°	1149.0	1149.0	1169.5	1200.4	1215.9	1267.5	1293.2	1308.7	1324.1	1318.9	1257.1
65°	803.8	814.0	824.3	839.8	855.2	886.1	901.6	932.5	942.8	948.0	901.6
67.5°	566.8	551.3	561.6	571.8	587.3	608.0	638.9	638.9	654.3	654.3	623.4
70°	360.7	360.7	365.8	381.2	391.6	396.7	407.1	417.3	432.8	427.6	427.6
72.5°	242.2	237.0	242.2	247.3	252.5	267.9	267.9	273.1	283.4	288.6	267.9
75°	123.7	128.8	139.1	134.0	149.4	139.1	144.2	159.7	154.6	144.2	144.2
77.5°	103.0	103.0	103.0	97.9	108.2	108.2	103.0	113.3	108.2	108.2	103.0
80°	72.1	77.3	72.1	66.9	72.1	66.9	66.9	66.9	66.9	66.9	61.8
82.5°	56.7	46.4	51.6	46.4	51.6	51.6	46.4	41.2	41.2	46.4	41.2
85°	41.2	30.9	36.1	36.1	30.9	30.9	30.9	30.9	30.9	25.7	25.7
87.5°	25.7	15.5	15.5	15.5	20.6	20.6	20.6	15.5	20.6	20.6	10.3
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°	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5
2.5°	9614.0	9608.8	9619.1	9614.0	9614.0	9608.8	9614.0	9608.8	9619.1	9598.5	9603.6
5°	9614.0	9603.6	9608.8	9614.0	9619.1	9608.8	9608.8	9608.8	9619.1	9608.8	9614.0
7.5°	9593.3	9588.1	9603.6	9614.0	9608.8	9603.6	9614.0	9608.8	9619.1	9614.0	9624.2
10°	9552.1	9557.2	9567.6	9583.0	9588.1	9593.3	9603.6	9603.6	9619.1	9598.5	9608.8
12.5°	9490.3	9510.8	9536.7	9546.9	9567.6	9567.6	9577.9	9583.0	9593.3	9588.1	9603.6
15°	9413.0	9438.7	9469.6	9495.5	9521.2	9536.7	9552.1	9557.2	9572.7	9557.2	9562.4
17.5°	9320.2	9351.1	9397.5	9428.4	9469.6	9485.1	9505.7	9516.0	9531.5	9521.2	9526.3
20°	9191.4	9227.6	9279.0	9325.4	9351.1	9387.2	9413.0	9428.4	9438.7	9428.4	9433.6
22.5°	9011.1	9062.7	9129.6	9165.7	9217.2	9248.1	9253.3	9289.3	9315.1	9289.3	9299.7
25°	8799.8	8851.4	8903.0	8980.2	9026.6	9062.7	9098.7	9103.9	9129.6	9124.5	9119.3
27.5°	8449.5	8516.6	8604.1	8666.0	8727.7	8784.5	8825.7	8835.9	8861.7	8851.4	8856.6
30°	7970.3	8042.6	8125.0	8222.8	8310.5	8367.1	8418.6	8454.7	8480.4	8465.0	8459.8
32.5°	7290.3	7362.4	7450.1	7547.9	7651.0	7733.3	7795.2	7841.6	7872.5	7862.2	7836.4
35°	6512.4	6532.9	6589.7	6666.9	6754.4	6842.0	6898.8	6950.2	6986.3	6996.6	6996.6
37.5°	5713.8	5646.8	5605.6	5605.6	5657.0	5693.1	5744.7	5775.5	5832.3	5852.8	5868.3
40°	4940.9	4786.3	4642.1	4533.9	4461.8	4456.6	4456.6	4472.0	4523.6	4590.5	4652.4
42.5°	4250.5	4003.2	3781.7	3580.7	3436.5	3354.1	3318.0	3323.2	3364.4	3426.2	3529.2
45°	3699.2	3390.1	3111.9	2869.7	2674.0	2545.1	2483.4	2478.2	2509.1	2581.2	2694.6
47.5°	3271.6	2941.9	2627.6	2349.3	2138.2	1999.0	1926.9	1906.4	1926.9	1993.8	2127.8
50°	2916.1	2576.1	2251.5	1963.0	1736.3	1592.1	1525.0	1499.3	1525.0	1581.7	1715.6
52.5°	2586.3	2236.0	1932.1	1653.8	1411.7	1288.0	1215.9	1200.4	1215.9	1282.8	1391.1
55°	2205.1	1906.4	1607.5	1329.2	1118.1	994.4	937.7	922.3	937.7	999.6	1112.9
57.5°	1829.1	1571.4	1308.7	1056.2	875.9	767.6	716.2	695.5	731.6	772.8	906.8
60°	1478.6	1272.6	1051.0	829.5	680.1	582.2	540.9	535.8	546.1	597.7	690.3
62.5°	1159.3	989.2	814.0	633.7	510.1	468.8	417.3	412.2	422.4	453.3	525.6
65°	834.7	726.5	592.5	463.7	365.8	309.1	288.6	293.7	303.9	324.6	391.6
67.5°	582.2	504.9	412.2	324.6	252.5	226.7	206.1	200.9	206.1	242.2	278.2
70°	391.6	345.2	278.2	247.3	175.2	139.1	144.2	128.8	149.4	149.4	180.3
72.5°	257.6	226.7	185.4	144.2	123.7	97.9	97.9	92.8	103.0	108.2	134.0
75°	134.0	103.0	103.0	72.1	51.6	25.7	46.4	41.2	36.1	41.2	51.6
77.5°	92.8	77.3	72.1	56.7	51.6	41.2	41.2	41.2	41.2	46.4	51.6
80°	56.7	56.7	41.2	36.1	30.9	25.7	30.9	30.9	30.9	30.9	36.1
82.5°	36.1	30.9	30.9	25.7	25.7	20.6	20.6	20.6	20.6	20.6	30.9
85°	30.9	20.6	20.6	15.5	20.6	36.1	15.5	20.6	20.6	20.6	15.5
87.5°	10.3	15.5	15.5	15.5	10.3	5.2	10.3	15.5	15.5	25.7	20.6
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°	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5	9598.5
2.5°	9614.0	9619.1	9619.1	9614.0	9614.0	9603.6	9624.2	9608.8	9614.0	9634.5	9619.1
5°	9624.2	9629.3	9629.3	9624.2	9624.2	9624.2	9629.3	9629.3	9624.2	9619.1	9629.3
7.5°	9644.8	9639.7	9639.7	9629.3	9629.3	9619.1	9629.3	9614.0	9624.2	9614.0	9629.3
10°	9619.1	9624.2	9619.1	9614.0	9614.0	9608.8	9608.8	9593.3	9598.5	9583.0	9593.3
12.5°	9603.6	9598.5	9598.5	9588.1	9577.9	9567.6	9562.4	9546.9	9546.9	9510.8	9526.3
15°	9562.4	9567.6	9552.1	9531.5	9521.2	9495.5	9485.1	9464.5	9443.9	9418.2	9423.3
17.5°	9526.3	9510.8	9490.3	9469.6	9428.4	9407.8	9387.2	9356.3	9346.0	9315.1	9304.8
20°	9418.2	9407.8	9382.1	9346.0	9320.2	9273.8	9253.3	9222.4	9196.6	9165.7	9150.2
22.5°	9279.0	9268.7	9237.8	9201.7	9160.5	9140.0	9119.3	9062.7	9036.8	9006.0	9000.8
25°	9103.9	9088.4	9057.5	9016.3	8995.6	8939.0	8918.3	8877.1	8866.9	8835.9	8830.8
27.5°	8835.9	8815.3	8779.3	8727.7	8691.7	8655.6	8635.1	8604.1	8593.8	8562.8	8557.8
30°	8434.1	8408.3	8336.2	8315.6	8253.7	8217.7	8217.7	8176.4	8181.6	8161.1	8161.1
32.5°	7800.4	7759.2	7702.4	7661.2	7620.0	7599.4	7599.4	7583.9	7594.3	7594.3	7604.6
35°	6960.5	6903.9	6872.9	6847.2	6847.2	6867.8	6929.7	6945.2	6976.1	7001.8	7022.4
37.5°	5883.7	5878.7	5914.7	5945.6	6022.9	6110.5	6218.7	6311.4	6398.9	6460.8	6522.6
40°	4719.4	4848.2	4951.2	5095.5	5213.9	5384.0	5579.8	5739.5	5888.9	5997.2	6110.5
42.5°	3683.7	3848.6	4065.1	4276.3	4487.5	4719.4	4977.0	5198.5	5394.3	5543.7	5662.2
45°	2869.7	3096.4	3359.2	3627.1	3900.2	4188.8	4456.6	4683.3	4889.4	5044.0	5162.5
47.5°	2313.3	2560.6	2859.4	3153.1	3462.2	3766.2	4065.1	4260.9	4430.8	4554.5	4662.8
50°	1911.4	2174.2	2488.5	2823.4	3132.5	3436.5	3694.1	3884.7	4023.9	4132.0	4199.0
52.5°	1597.1	1875.3	2210.3	2545.1	2854.2	3132.5	3364.4	3508.6	3622.0	3699.2	3761.0
55°	1318.9	1586.9	1901.2	2215.5	2519.4	2782.1	2972.7	3081.0	3168.5	3214.9	3251.0
57.5°	1076.8	1324.1	1612.6	1901.2	2163.9	2380.4	2529.7	2637.9	2679.1	2715.2	2710.0
60°	845.0	1076.8	1339.6	1586.9	1813.6	1988.7	2097.0	2158.7	2189.6	2205.1	2194.8
62.5°	664.6	875.9	1076.8	1293.2	1458.1	1607.5	1710.6	1710.6	1726.0	1731.1	1746.6
65°	494.6	654.3	829.5	989.2	1123.1	1221.1	1277.8	1293.2	1313.8	1308.7	1298.3
67.5°	365.8	484.3	613.1	731.6	824.3	886.1	927.3	963.5	958.3	948.0	942.8
70°	252.5	329.8	443.1	515.2	582.2	644.1	654.3	659.4	664.6	669.8	659.4
72.5°	175.2	231.8	293.7	355.5	396.7	422.4	448.3	453.3	453.3	453.3	448.3
75°	87.6	118.5	175.2	200.9	237.0	247.3	267.9	267.9	283.4	262.7	257.6
77.5°	77.3	92.8	123.7	144.2	159.7	175.2	180.3	195.8	190.6	180.3	185.4
80°	46.4	56.7	77.3	87.6	108.2	113.3	118.5	123.7	118.5	123.7	123.7
82.5°	36.1	41.2	51.6	51.6	66.9	66.9	72.1	72.1	77.3	77.3	77.3
85°	20.6	36.1	30.9	61.8	41.2	41.2	51.6	61.8	51.6	51.6	61.8
87.5°	20.6	20.6	15.5	20.6	20.6	20.6	25.7	30.9	30.9	36.1	30.9
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: P249414

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9598.5	9598.5	9598.5	9598.5
2.5°	9614.0	9624.2	9608.8	9603.6
5°	9629.3	9629.3	9619.1	9619.1
7.5°	9629.3	9629.3	9614.0	9603.6
10°	9588.1	9588.1	9572.7	9562.4
12.5°	9510.8	9510.8	9505.7	9490.3
15°	9413.0	9413.0	9392.3	9377.0
17.5°	9279.0	9289.3	9263.6	9263.6
20°	9134.8	9129.6	9109.1	9098.7
22.5°	8985.4	8975.1	8969.9	8939.0
25°	8825.7	8815.3	8799.8	8784.5
27.5°	8552.6	8547.5	8531.9	8511.4
30°	8135.2	8130.1	8109.5	8109.5
32.5°	7594.3	7589.1	7568.6	7573.7
35°	7032.7	7053.3	7043.0	7022.4
37.5°	6563.8	6579.3	6589.7	6579.3
40°	6172.3	6218.7	6223.8	6234.2
42.5°	5755.0	5816.8	5837.4	5847.6
45°	5255.1	5311.9	5358.3	5347.9
47.5°	4745.1	4786.3	4827.5	4796.6
50°	4255.7	4281.4	4296.9	4296.9
52.5°	3792.0	3792.0	3786.9	3792.0
55°	3261.3	3261.3	3240.7	3251.0
57.5°	2704.9	2715.2	2699.7	2674.0
60°	2189.6	2163.9	2153.6	2138.2
62.5°	1705.4	1705.4	1669.3	1715.6
65°	1277.8	1262.3	1246.8	1241.6
67.5°	927.3	922.3	906.8	901.6
70°	654.3	633.7	628.6	618.2
72.5°	437.9	437.9	427.6	427.6
75°	267.9	242.2	237.0	242.2
77.5°	185.4	180.3	180.3	175.2
80°	123.7	118.5	128.8	113.3
82.5°	77.3	82.4	77.3	82.4
85°	51.6	61.8	56.7	56.7
87.5°	30.9	30.9	30.9	30.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)