

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: P249153

Luminaire Tested: **LD8B200D010 ER8B200935 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249153
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 ER8B200935 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18687.0 lumens
Efficiency: N/A
Efficacy: 83.7 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

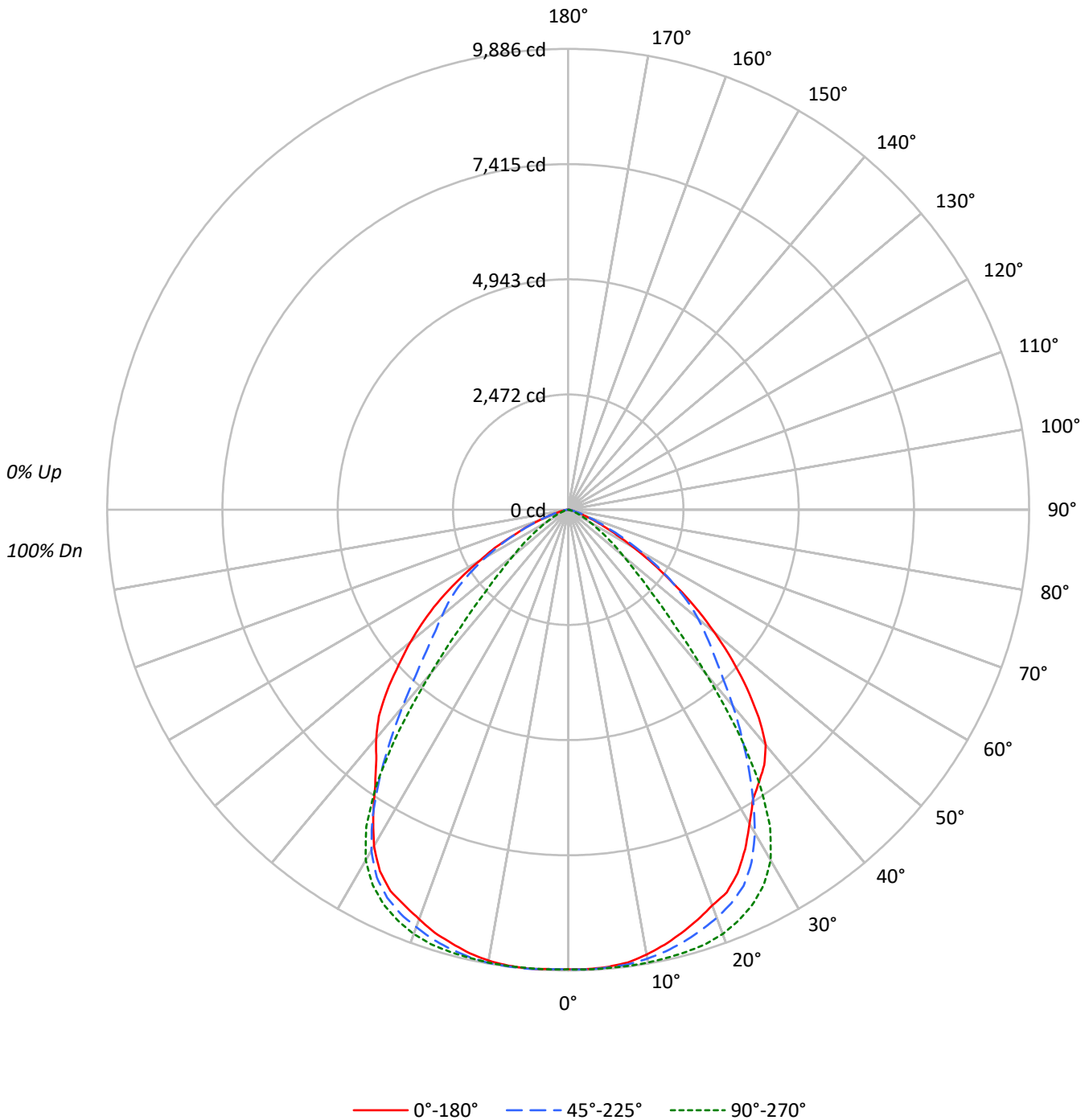
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	304034	304034	304034
5°	304703	305523	305854
10°	303423	308890	307565
15°	300058	313408	307496
20°	296457	317813	306702
25°	292607	318180	307017
30°	276824	309234	296611
35°	268557	268753	271546
40°	265233	184915	257778
45°	236335	111011	239562
50°	196511	73883	211742
55°	147382	50934	179531
60°	99879	33945	135458
65°	60247	22014	93059
70°	33404	11928	57251
75°	15131	5040	29643
80°	13159	5629	20670
85°	14966	7465	20627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	941.0	5.0
10°-20°	2732.7	14.6
20°-30°	4147.7	22.2
30°-40°	4356.3	23.3
40°-50°	3266.1	17.5
50°-60°	2095.6	11.2
60°-70°	896.5	4.8
70°-80°	211.8	1.1
80°-90°	39.4	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°	7821.3	41.9
0°-40°	12177.7	65.2
0°-60°	17539.3	93.9
0°-90°	18687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18687.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9860	9860	9860	9860	9860	
5°	9844	9860	9870	9886	9881	935
15°	9399	9595	9817	9754	9632	2651
25°	8600	8902	9352	9182	9024	3929
35°	7134	6737	7139	7055	7214	4478
45°	5419	4430	2546	4303	5493	4150
55°	2741	2741	947	2858	3339	2487
65°	826	974	302	1254	1275	881
75°	127	148	42	254	249	185
85°	42	26	21	42	58	45
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°	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6
2.5°	9864.9	9875.6	9870.2	9870.2	9864.9	9870.2	9870.2	9880.9	9880.9	9870.2	9864.9
5°	9843.7	9854.3	9854.3	9843.7	9843.7	9870.2	9854.3	9864.9	9864.9	9859.6	9859.6
7.5°	9796.2	9796.2	9817.3	9801.5	9801.5	9817.3	9812.0	9822.6	9833.2	9838.5	9838.5
10°	9690.3	9700.9	9706.2	9706.2	9711.5	9727.3	9737.9	9759.1	9769.6	9780.2	9785.6
12.5°	9558.0	9573.8	9579.1	9573.8	9589.8	9610.9	9637.4	9663.8	9679.8	9700.9	9716.8
15°	9399.1	9399.1	9409.8	9425.7	9436.3	9468.0	9494.5	9526.2	9568.5	9595.1	9621.5
17.5°	9224.6	9235.2	9251.0	9251.0	9272.2	9325.1	9341.0	9388.7	9436.3	9462.7	9515.7
20°	9034.1	9044.6	9060.5	9071.1	9097.5	9139.9	9171.6	9214.0	9266.9	9314.6	9367.4
22.5°	8885.8	8864.7	8875.2	8885.8	8912.4	8949.4	8986.4	9039.3	9092.2	9139.9	9192.9
25°	8600.0	8605.3	8621.3	8631.8	8663.6	8695.3	8737.7	8801.1	8848.8	8901.8	8959.9
27.5°	8213.7	8219.1	8245.5	8245.5	8271.9	8324.9	8351.3	8404.2	8467.8	8520.7	8589.5
30°	7774.5	7785.0	7785.0	7806.2	7822.0	7848.6	7875.0	7927.9	7959.7	8007.3	8102.6
32.5°	7372.3	7382.8	7377.5	7372.3	7356.4	7351.0	7345.7	7356.4	7367.0	7382.8	7419.8
35°	7134.1	7107.6	7086.5	7049.5	7007.1	6954.1	6906.5	6843.0	6784.8	6737.1	6684.3
37.5°	6906.5	6901.2	6869.5	6816.5	6731.8	6636.6	6525.5	6387.9	6250.2	6102.1	5959.2
40°	6589.0	6573.0	6546.6	6472.6	6377.2	6260.8	6112.7	5943.3	5721.0	5493.4	5260.6
42.5°	6049.1	6054.4	6022.7	5964.4	5874.5	5763.3	5609.9	5424.7	5186.5	4916.5	4614.9
45°	5419.4	5419.4	5408.8	5361.1	5297.6	5207.6	5091.2	4937.8	4704.9	4429.6	4106.8
47.5°	4763.1	4768.4	4752.5	4742.0	4715.4	4657.3	4572.6	4456.2	4292.1	4027.4	3704.6
50°	4096.3	4096.3	4122.7	4117.4	4117.4	4096.3	4059.3	3990.4	3847.6	3635.8	3334.2
52.5°	3429.4	3440.0	3456.0	3477.1	3503.5	3545.8	3503.5	3471.8	3381.8	3217.7	2958.4
55°	2741.4	2752.0	2778.4	2815.5	2847.3	2889.7	2900.2	2900.2	2852.5	2741.4	2545.6
57.5°	2154.0	2138.1	2159.3	2191.1	2233.4	2275.7	2307.5	2344.5	2339.2	2265.1	2106.4
60°	1619.5	1624.8	1640.6	1672.4	1704.2	1741.2	1783.5	1815.3	1831.2	1794.2	1693.5
62.5°	1180.2	1180.2	1201.3	1233.1	1249.0	1301.9	1328.4	1344.3	1360.1	1354.8	1291.3
65°	825.7	836.2	846.8	862.7	878.5	910.2	926.1	957.9	968.5	973.8	926.1
67.5°	582.2	566.3	576.9	587.4	603.3	624.6	656.3	656.3	672.1	672.1	640.4
70°	370.5	370.5	375.8	391.6	402.2	407.5	418.1	428.6	444.6	439.2	439.2
72.5°	248.8	243.5	248.8	254.1	259.4	275.2	275.2	280.5	291.1	296.4	275.2
75°	127.0	132.3	142.8	137.7	153.5	142.8	148.1	164.1	158.8	148.1	148.1
77.5°	105.8	105.8	105.8	100.6	111.1	111.1	105.8	116.4	111.1	111.1	105.8
80°	74.1	79.4	74.1	68.8	74.1	68.8	68.8	68.8	68.8	68.8	63.5
82.5°	58.3	47.7	53.0	47.7	53.0	53.0	47.7	42.3	42.3	47.7	42.3
85°	42.3	31.7	37.0	37.0	31.7	31.7	31.7	31.7	31.7	26.4	26.4
87.5°	26.4	15.9	15.9	15.9	21.1	21.1	21.1	15.9	21.1	21.1	10.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6
2.5°	9875.6	9870.2	9880.9	9875.6	9875.6	9870.2	9875.6	9870.2	9880.9	9859.6	9864.9
5°	9875.6	9864.9	9870.2	9875.6	9880.9	9870.2	9870.2	9870.2	9880.9	9870.2	9875.6
7.5°	9854.3	9849.0	9864.9	9875.6	9870.2	9864.9	9875.6	9870.2	9880.9	9875.6	9886.0
10°	9812.0	9817.3	9827.9	9843.7	9849.0	9854.3	9864.9	9864.9	9880.9	9859.6	9870.2
12.5°	9748.5	9769.6	9796.2	9806.7	9827.9	9827.9	9838.5	9843.7	9854.3	9849.0	9864.9
15°	9669.1	9695.6	9727.3	9753.8	9780.2	9796.2	9812.0	9817.3	9833.2	9817.3	9822.6
17.5°	9573.8	9605.6	9653.2	9684.9	9727.3	9743.2	9764.3	9774.9	9790.9	9780.2	9785.6
20°	9441.5	9478.7	9531.5	9579.1	9605.6	9642.6	9669.1	9684.9	9695.6	9684.9	9690.3
22.5°	9256.3	9309.3	9378.0	9415.1	9468.0	9499.8	9505.1	9542.1	9568.5	9542.1	9552.7
25°	9039.3	9092.2	9145.2	9224.6	9272.2	9309.3	9346.3	9351.6	9378.0	9372.7	9367.4
27.5°	8679.4	8748.3	8838.2	8901.8	8965.2	9023.5	9065.8	9076.3	9102.9	9092.2	9097.5
30°	8187.2	8261.4	8346.1	8446.6	8536.6	8594.7	8647.7	8684.7	8711.1	8695.3	8690.0
32.5°	7488.7	7562.8	7652.8	7753.3	7859.2	7943.8	8007.3	8055.0	8086.7	8076.1	8049.7
35°	6689.6	6710.7	6769.0	6848.3	6938.2	7028.2	7086.5	7139.3	7176.4	7187.0	7187.0
37.5°	5869.2	5800.5	5758.1	5758.1	5811.0	5848.0	5901.0	5932.7	5991.0	6012.1	6028.0
40°	5075.3	4916.5	4768.4	4657.3	4583.2	4577.9	4577.9	4593.7	4646.7	4715.4	4779.0
42.5°	4366.2	4112.1	3884.6	3678.2	3530.0	3445.3	3408.3	3413.6	3456.0	3519.4	3625.2
45°	3799.9	3482.4	3196.6	2947.8	2746.7	2614.4	2550.9	2545.6	2577.3	2651.4	2768.0
47.5°	3360.7	3021.9	2699.1	2413.3	2196.4	2053.4	1979.3	1958.2	1979.3	2048.1	2185.7
50°	2995.5	2646.2	2312.8	2016.4	1783.5	1635.4	1566.5	1540.1	1566.5	1624.8	1762.3
52.5°	2656.7	2296.9	1984.6	1698.8	1450.1	1323.1	1249.0	1233.1	1249.0	1317.7	1429.0
55°	2265.1	1958.2	1651.2	1365.4	1148.5	1021.5	963.2	947.4	963.2	1026.8	1143.2
57.5°	1878.8	1614.2	1344.3	1084.9	899.7	788.5	735.7	714.4	751.5	793.8	931.5
60°	1518.9	1307.3	1079.6	852.1	698.6	598.0	555.7	550.4	561.0	613.9	709.1
62.5°	1190.8	1016.1	836.2	651.0	523.9	481.6	428.6	423.4	433.9	465.7	539.9
65°	857.4	746.3	608.6	476.3	375.8	317.5	296.4	301.7	312.2	333.4	402.2
67.5°	598.0	518.6	423.4	333.4	259.4	232.8	211.7	206.4	211.7	248.8	285.8
70°	402.2	354.6	285.8	254.1	180.0	142.8	148.1	132.3	153.5	153.5	185.2
72.5°	264.6	232.8	190.5	148.1	127.0	100.6	100.6	95.3	105.8	111.1	137.7
75°	137.7	105.8	105.8	74.1	53.0	26.4	47.7	42.3	37.0	42.3	53.0
77.5°	95.3	79.4	74.1	58.3	53.0	42.3	42.3	42.3	42.3	47.7	53.0
80°	58.3	58.3	42.3	37.0	31.7	26.4	31.7	31.7	31.7	31.7	37.0
82.5°	37.0	31.7	31.7	26.4	26.4	21.1	21.1	21.1	21.1	21.1	31.7
85°	31.7	21.1	21.1	15.9	21.1	37.0	15.9	21.1	21.1	21.1	15.9
87.5°	10.6	15.9	15.9	15.9	10.6	5.3	10.6	15.9	15.9	26.4	21.1
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°	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6	9859.6
2.5°	9875.6	9880.9	9880.9	9875.6	9875.6	9864.9	9886.0	9870.2	9875.6	9896.7	9880.9
5°	9886.0	9891.4	9891.4	9886.0	9886.0	9886.0	9891.4	9891.4	9886.0	9880.9	9891.4
7.5°	9907.3	9902.0	9902.0	9891.4	9891.4	9880.9	9891.4	9875.6	9886.0	9875.6	9891.4
10°	9880.9	9886.0	9880.9	9875.6	9875.6	9870.2	9870.2	9854.3	9859.6	9843.7	9854.3
12.5°	9864.9	9859.6	9859.6	9849.0	9838.5	9827.9	9822.6	9806.7	9806.7	9769.6	9785.6
15°	9822.6	9827.9	9812.0	9790.9	9780.2	9753.8	9743.2	9722.0	9700.9	9674.4	9679.8
17.5°	9785.6	9769.6	9748.5	9727.3	9684.9	9663.8	9642.6	9610.9	9600.3	9568.5	9558.0
20°	9674.4	9663.8	9637.4	9600.3	9573.8	9526.2	9505.1	9473.3	9446.8	9415.1	9399.1
22.5°	9531.5	9520.9	9489.1	9452.1	9409.8	9388.7	9367.4	9309.3	9282.7	9251.0	9245.7
25°	9351.6	9335.7	9304.0	9261.6	9240.4	9182.2	9161.0	9118.7	9108.2	9076.3	9071.1
27.5°	9076.3	9055.2	9018.2	8965.2	8928.2	8891.1	8870.0	8838.2	8827.7	8795.8	8790.6
30°	8663.6	8637.1	8563.0	8541.9	8478.3	8441.3	8441.3	8398.9	8404.2	8383.1	8383.1
32.5°	8012.6	7970.3	7912.0	7869.7	7827.3	7806.2	7806.2	7790.3	7800.9	7800.9	7811.5
35°	7149.9	7091.8	7059.9	7033.5	7033.5	7054.6	7118.2	7134.1	7165.9	7192.3	7213.5
37.5°	6043.8	6038.6	6075.6	6107.4	6186.8	6276.8	6387.9	6483.2	6573.0	6636.6	6700.1
40°	4847.8	4980.1	5085.9	5234.2	5355.8	5530.5	5731.6	5895.7	6049.1	6160.3	6276.8
42.5°	3784.0	3953.4	4175.7	4392.6	4609.6	4847.8	5112.5	5340.0	5541.1	5694.5	5816.3
45°	2947.8	3180.7	3450.7	3725.8	4006.3	4302.7	4577.9	4810.7	5022.5	5181.2	5303.0
47.5°	2376.2	2630.3	2937.2	3238.9	3556.5	3868.7	4175.7	4376.8	4551.4	4678.4	4789.6
50°	1963.4	2233.4	2556.2	2900.2	3217.7	3530.0	3794.6	3990.4	4133.4	4244.5	4313.2
52.5°	1640.6	1926.4	2270.4	2614.4	2931.9	3217.7	3456.0	3604.1	3720.5	3799.9	3863.4
55°	1354.8	1630.1	1952.9	2275.7	2588.0	2857.8	3053.6	3164.9	3254.7	3302.4	3339.4
57.5°	1106.1	1360.1	1656.5	1952.9	2222.8	2445.1	2598.6	2709.7	2752.0	2789.1	2783.8
60°	868.0	1106.1	1376.0	1630.1	1862.9	2042.8	2154.0	2217.5	2249.2	2265.1	2254.5
62.5°	682.7	899.7	1106.1	1328.4	1497.7	1651.2	1757.1	1757.1	1772.9	1778.2	1794.2
65°	508.0	672.1	852.1	1016.1	1153.7	1254.3	1312.6	1328.4	1349.6	1344.3	1333.7
67.5°	375.8	497.5	629.7	751.5	846.8	910.2	952.6	989.7	984.4	973.8	968.5
70°	259.4	338.8	455.2	529.2	598.0	661.6	672.1	677.4	682.7	688.0	677.4
72.5°	180.0	238.1	301.7	365.2	407.5	433.9	460.5	465.7	465.7	465.7	460.5
75°	90.0	121.7	180.0	206.4	243.5	254.1	275.2	275.2	291.1	269.9	264.6
77.5°	79.4	95.3	127.0	148.1	164.1	180.0	185.2	201.1	195.8	185.2	190.5
80°	47.7	58.3	79.4	90.0	111.1	116.4	121.7	127.0	121.7	127.0	127.0
82.5°	37.0	42.3	53.0	53.0	68.8	68.8	74.1	74.1	79.4	79.4	79.4
85°	21.1	37.0	31.7	63.5	42.3	42.3	53.0	63.5	53.0	53.0	63.5
87.5°	21.1	21.1	15.9	21.1	21.1	21.1	26.4	31.7	31.7	37.0	31.7
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: P249153

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9859.6	9859.6	9859.6	9859.6
2.5°	9875.6	9886.0	9870.2	9864.9
5°	9891.4	9891.4	9880.9	9880.9
7.5°	9891.4	9891.4	9875.6	9864.9
10°	9849.0	9849.0	9833.2	9822.6
12.5°	9769.6	9769.6	9764.3	9748.5
15°	9669.1	9669.1	9647.9	9632.1
17.5°	9531.5	9542.1	9515.7	9515.7
20°	9383.3	9378.0	9356.9	9346.3
22.5°	9229.9	9219.3	9214.0	9182.2
25°	9065.8	9055.2	9039.3	9023.5
27.5°	8785.3	8780.0	8764.1	8743.0
30°	8356.6	8351.3	8330.2	8330.2
32.5°	7800.9	7795.6	7774.5	7779.8
35°	7224.0	7245.3	7234.6	7213.5
37.5°	6742.4	6758.3	6769.0	6758.3
40°	6340.2	6387.9	6393.2	6403.8
42.5°	5911.6	5975.0	5996.3	6006.8
45°	5398.1	5456.4	5504.1	5493.4
47.5°	4874.2	4916.5	4958.9	4927.2
50°	4371.5	4397.9	4413.8	4413.8
52.5°	3895.2	3895.2	3889.9	3895.2
55°	3350.0	3350.0	3328.9	3339.4
57.5°	2778.4	2789.1	2773.1	2746.7
60°	2249.2	2222.8	2212.2	2196.4
62.5°	1751.8	1751.8	1714.8	1762.3
65°	1312.6	1296.6	1280.7	1275.4
67.5°	952.6	947.4	931.5	926.1
70°	672.1	651.0	645.7	635.0
72.5°	449.9	449.9	439.2	439.2
75°	275.2	248.8	243.5	248.8
77.5°	190.5	185.2	185.2	180.0
80°	127.0	121.7	132.3	116.4
82.5°	79.4	84.7	79.4	84.7
85°	53.0	63.5	58.3	58.3
87.5°	31.7	31.7	31.7	31.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)