

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: P249423

Luminaire Tested: **LD8B200D010 ER8B200830 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249423  
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 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18648.0 lumens  
Efficiency: N/A  
Efficacy: 83.5 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

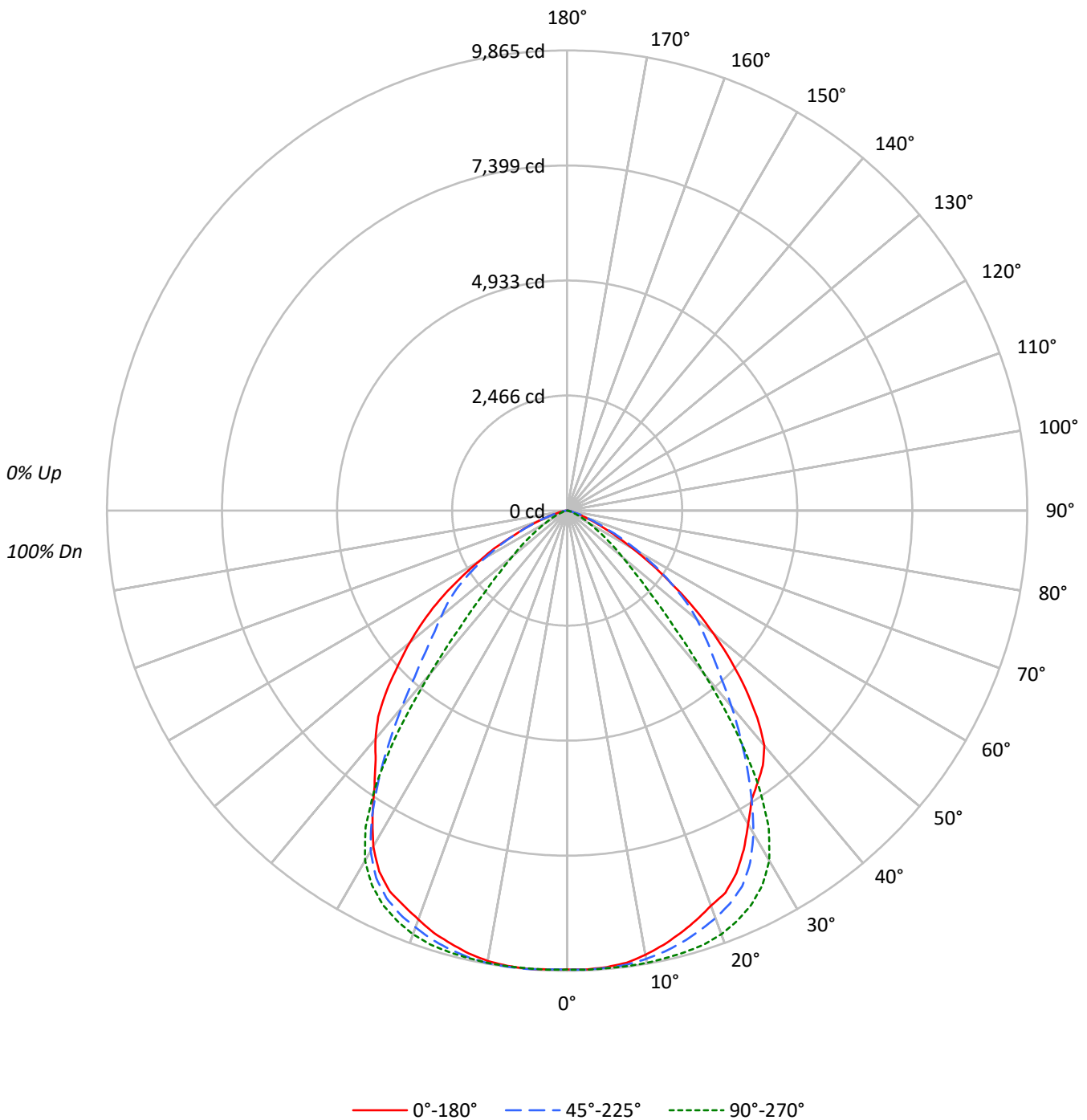
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	303402	303402	303402
5°	304068	304886	305214
10°	302787	308245	306923
15°	299432	312754	306854
20°	295837	317150	306062
25°	291998	317516	306373
30°	276248	308589	295991
35°	268000	268192	270982
40°	264678	184528	257239
45°	235843	110780	239065
50°	196103	73729	211301
55°	147075	50826	179160
60°	99669	33871	135174
65°	60116	21970	92862
70°	33332	11910	57134
75°	15107	5040	29571
80°	13123	5629	20635
85°	14966	7465	20556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	939.0	5.0
10°-20°	2727.0	14.6
20°-30°	4139.0	22.2
30°-40°	4347.2	23.3
40°-50°	3259.3	17.5
50°-60°	2091.2	11.2
60°-70°	894.6	4.8
70°-80°	211.3	1.1
80°-90°	39.3	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°	7805.0	41.9
0°-40°	12152.3	65.2
0°-60°	17502.7	93.9
0°-90°	18648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18648.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9839	9839	9839	9839	9839	
5°	9823	9839	9850	9865	9860	933
15°	9380	9575	9797	9734	9612	2646
25°	8582	8883	9332	9163	9005	3921
35°	7119	6723	7124	7040	7198	4468
45°	5408	4420	2540	4294	5482	4142
55°	2736	2736	945	2852	3332	2481
65°	824	972	301	1252	1273	880
75°	127	148	42	254	248	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°	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1
2.5°	9844.3	9854.9	9849.6	9849.6	9844.3	9849.6	9849.6	9860.2	9860.2	9849.6	9844.3
5°	9823.2	9833.8	9833.8	9823.2	9823.2	9849.6	9833.8	9844.3	9844.3	9839.1	9839.1
7.5°	9775.7	9775.7	9796.8	9781.0	9781.0	9796.8	9791.5	9802.1	9812.7	9818.0	9818.0
10°	9670.0	9680.6	9685.9	9685.9	9691.2	9707.0	9717.6	9738.8	9749.2	9759.8	9765.1
12.5°	9538.1	9553.9	9559.2	9553.9	9569.7	9590.8	9617.3	9643.7	9659.6	9680.6	9696.5
15°	9379.5	9379.5	9390.1	9406.0	9416.6	9448.3	9474.6	9506.3	9548.6	9575.0	9601.4
17.5°	9205.3	9215.9	9231.7	9231.7	9252.9	9305.6	9321.5	9369.1	9416.6	9443.0	9495.8
20°	9015.2	9025.7	9041.6	9052.2	9078.6	9120.8	9152.5	9194.7	9247.6	9295.1	9347.9
22.5°	8867.3	8846.2	8856.7	8867.3	8893.8	8930.7	8967.7	9020.4	9073.3	9120.8	9173.7
25°	8582.1	8587.4	8603.3	8613.7	8645.5	8677.2	8719.4	8782.8	8830.3	8883.2	8941.2
27.5°	8196.6	8201.9	8228.3	8228.3	8254.6	8307.5	8333.8	8386.7	8450.1	8502.9	8571.6
30°	7758.3	7768.7	7768.7	7789.9	7805.7	7832.2	7858.6	7911.4	7943.1	7990.6	8085.7
32.5°	7356.9	7367.4	7362.1	7356.9	7341.0	7335.7	7330.4	7341.0	7351.6	7367.4	7404.3
35°	7119.3	7092.8	7071.7	7034.7	6992.5	6939.6	6892.1	6828.8	6770.6	6723.1	6670.3
37.5°	6892.1	6886.8	6855.1	6802.3	6717.8	6622.8	6511.9	6374.5	6237.2	6089.3	5946.8
40°	6575.2	6559.3	6533.0	6459.0	6363.9	6247.8	6099.9	5930.9	5709.0	5482.0	5249.6
42.5°	6036.5	6041.8	6010.1	5952.0	5862.3	5751.3	5598.2	5413.4	5175.7	4906.3	4605.3
45°	5408.1	5408.1	5397.5	5349.9	5286.6	5196.8	5080.6	4927.5	4695.1	4420.4	4098.2
47.5°	4753.1	4758.4	4742.6	4732.1	4705.6	4647.6	4563.1	4446.9	4283.2	4019.0	3696.9
50°	4087.8	4087.8	4114.1	4108.8	4108.8	4087.8	4050.8	3982.1	3839.5	3628.2	3327.3
52.5°	3422.3	3432.9	3448.7	3469.8	3496.2	3538.4	3496.2	3464.5	3374.7	3211.0	2952.3
55°	2735.7	2746.3	2772.7	2809.6	2841.4	2883.6	2894.1	2894.1	2846.6	2735.7	2540.3
57.5°	2149.5	2133.6	2154.8	2186.5	2228.7	2271.0	2302.7	2339.6	2334.3	2260.4	2102.0
60°	1616.1	1621.4	1637.2	1668.9	1700.6	1737.6	1779.8	1811.5	1827.4	1790.4	1690.0
62.5°	1177.8	1177.8	1198.8	1230.5	1246.4	1299.2	1325.6	1341.5	1357.3	1352.0	1288.6
65°	823.9	834.4	845.0	860.9	876.7	908.3	924.2	955.9	966.5	971.8	924.2
67.5°	581.0	565.1	575.7	586.2	602.1	623.2	654.9	654.9	670.7	670.7	639.0
70°	369.7	369.7	375.0	390.8	401.4	406.7	417.3	427.7	443.6	438.3	438.3
72.5°	248.2	242.9	248.2	253.5	258.8	274.6	274.6	279.9	290.5	295.8	274.6
75°	126.8	132.1	142.5	137.4	153.1	142.5	147.8	163.7	158.4	147.8	147.8
77.5°	105.6	105.6	105.6	100.4	110.9	110.9	105.6	116.2	110.9	110.9	105.6
80°	73.9	79.2	73.9	68.6	73.9	68.6	68.6	68.6	68.6	68.6	63.3
82.5°	58.1	47.6	52.9	47.6	52.9	52.9	47.6	42.3	42.3	47.6	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°	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1
2.5°	9854.9	9849.6	9860.2	9854.9	9854.9	9849.6	9854.9	9849.6	9860.2	9839.1	9844.3
5°	9854.9	9844.3	9849.6	9854.9	9860.2	9849.6	9849.6	9849.6	9860.2	9849.6	9854.9
7.5°	9833.8	9828.5	9844.3	9854.9	9849.6	9844.3	9854.9	9849.6	9860.2	9854.9	9865.4
10°	9791.5	9796.8	9807.4	9823.2	9828.5	9833.8	9844.3	9844.3	9860.2	9839.1	9849.6
12.5°	9728.2	9749.2	9775.7	9786.2	9807.4	9807.4	9818.0	9823.2	9833.8	9828.5	9844.3
15°	9649.0	9675.3	9707.0	9733.5	9759.8	9775.7	9791.5	9796.8	9812.7	9796.8	9802.1
17.5°	9553.9	9585.5	9633.1	9664.7	9707.0	9722.9	9743.9	9754.5	9770.4	9759.8	9765.1
20°	9421.8	9458.9	9511.6	9559.2	9585.5	9622.5	9649.0	9664.7	9675.3	9664.7	9670.0
22.5°	9237.0	9289.8	9358.5	9395.4	9448.3	9479.9	9485.2	9522.2	9548.6	9522.2	9532.8
25°	9020.4	9073.3	9126.1	9205.3	9252.9	9289.8	9326.8	9332.1	9358.5	9353.2	9347.9
27.5°	8661.3	8730.0	8819.7	8883.2	8946.5	9004.6	9046.9	9057.4	9083.9	9073.3	9078.6
30°	8170.1	8244.2	8328.7	8428.9	8518.8	8576.8	8629.6	8666.6	8693.0	8677.2	8671.9
32.5°	7473.1	7547.0	7636.8	7737.1	7842.8	7927.2	7990.6	8038.2	8069.8	8059.2	8032.9
35°	6675.6	6696.7	6754.8	6834.1	6923.7	7013.6	7071.7	7124.4	7161.4	7172.0	7172.0
37.5°	5857.0	5788.4	5746.1	5746.1	5798.8	5835.8	5888.6	5920.3	5978.5	5999.5	6015.4
40°	5064.7	4906.3	4758.4	4647.6	4573.7	4568.4	4568.4	4584.1	4637.0	4705.6	4769.0
42.5°	4357.1	4103.5	3876.5	3670.5	3522.7	3438.2	3401.2	3406.5	3448.7	3512.1	3617.7
45°	3792.0	3475.1	3189.9	2941.7	2741.0	2608.9	2545.6	2540.3	2572.0	2645.9	2762.2
47.5°	3353.6	3015.6	2693.4	2408.2	2191.8	2049.1	1975.2	1954.1	1975.2	2043.8	2181.2
50°	2989.2	2640.7	2308.0	2012.2	1779.8	1632.0	1563.2	1536.9	1563.2	1621.4	1758.6
52.5°	2651.2	2292.1	1980.5	1695.3	1447.1	1320.3	1246.4	1230.5	1246.4	1315.0	1426.0
55°	2260.4	1954.1	1647.7	1362.5	1146.1	1019.3	961.2	945.4	961.2	1024.6	1140.8
57.5°	1874.9	1610.8	1341.5	1082.6	897.9	786.9	734.1	712.9	749.9	792.2	929.5
60°	1515.7	1304.5	1077.3	850.3	697.2	596.8	554.5	549.2	559.8	612.7	707.6
62.5°	1188.3	1014.0	834.4	649.6	522.8	480.6	427.7	422.6	433.0	464.7	538.7
65°	855.6	744.7	607.4	475.3	375.0	316.9	295.8	301.1	311.6	332.8	401.4
67.5°	596.8	517.5	422.6	332.8	258.8	232.3	211.3	206.0	211.3	248.2	285.2
70°	401.4	353.8	285.2	253.5	179.6	142.5	147.8	132.1	153.1	153.1	184.8
72.5°	264.0	232.3	190.1	147.8	126.8	100.4	100.4	95.1	105.6	110.9	137.4
75°	137.4	105.6	105.6	73.9	52.9	26.4	47.6	42.3	37.0	42.3	52.9
77.5°	95.1	79.2	73.9	58.1	52.9	42.3	42.3	42.3	42.3	47.6	52.9
80°	58.1	58.1	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°	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1	9839.1
2.5°	9854.9	9860.2	9860.2	9854.9	9854.9	9844.3	9865.4	9849.6	9854.9	9876.0	9860.2
5°	9865.4	9870.7	9870.7	9865.4	9865.4	9865.4	9870.7	9870.7	9865.4	9860.2	9870.7
7.5°	9886.6	9881.3	9881.3	9870.7	9870.7	9860.2	9870.7	9854.9	9865.4	9854.9	9870.7
10°	9860.2	9865.4	9860.2	9854.9	9854.9	9849.6	9849.6	9833.8	9839.1	9823.2	9833.8
12.5°	9844.3	9839.1	9839.1	9828.5	9818.0	9807.4	9802.1	9786.2	9786.2	9749.2	9765.1
15°	9802.1	9807.4	9791.5	9770.4	9759.8	9733.5	9722.9	9701.7	9680.6	9654.3	9659.6
17.5°	9765.1	9749.2	9728.2	9707.0	9664.7	9643.7	9622.5	9590.8	9580.2	9548.6	9538.1
20°	9654.3	9643.7	9617.3	9580.2	9553.9	9506.3	9485.2	9453.6	9427.1	9395.4	9379.5
22.5°	9511.6	9501.0	9469.3	9432.4	9390.1	9369.1	9347.9	9289.8	9263.4	9231.7	9226.4
25°	9332.1	9316.2	9284.5	9242.3	9221.1	9163.1	9141.9	9099.6	9089.2	9057.4	9052.2
27.5°	9057.4	9036.3	8999.3	8946.5	8909.5	8872.6	8851.5	8819.7	8809.3	8777.5	8772.3
30°	8645.5	8619.0	8545.1	8524.1	8460.6	8423.7	8423.7	8381.4	8386.7	8365.6	8365.6
32.5°	7995.9	7953.7	7895.5	7853.3	7811.0	7789.9	7789.9	7774.0	7784.6	7784.6	7795.2
35°	7135.0	7077.0	7045.2	7018.8	7018.8	7039.9	7103.4	7119.3	7150.9	7177.3	7198.5
37.5°	6031.2	6026.0	6063.0	6094.6	6173.8	6263.7	6374.5	6469.6	6559.3	6622.8	6686.1
40°	4837.7	4969.7	5075.3	5223.3	5344.6	5518.9	5719.6	5883.4	6036.5	6147.5	6263.7
42.5°	3776.1	3945.1	4167.0	4383.4	4600.0	4837.7	5101.8	5328.8	5529.5	5682.7	5804.1
45°	2941.7	3174.0	3443.5	3718.1	3998.0	4293.8	4568.4	4800.7	5012.0	5170.4	5291.9
47.5°	2371.3	2624.8	2931.1	3232.2	3549.0	3860.6	4167.0	4367.7	4541.9	4668.6	4779.6
50°	1959.3	2228.7	2550.9	2894.1	3211.0	3522.7	3786.7	3982.1	4124.7	4235.6	4304.2
52.5°	1637.2	1922.4	2265.7	2608.9	2925.8	3211.0	3448.7	3596.6	3712.8	3792.0	3855.3
55°	1352.0	1626.7	1948.8	2271.0	2582.6	2851.9	3047.3	3158.3	3247.9	3295.5	3332.5
57.5°	1103.8	1357.3	1653.0	1948.8	2218.1	2440.0	2593.2	2704.0	2746.3	2783.2	2777.9
60°	866.2	1103.8	1373.1	1626.7	1859.0	2038.5	2149.5	2212.8	2244.5	2260.4	2249.8
62.5°	681.3	897.9	1103.8	1325.6	1494.6	1647.7	1753.4	1753.4	1769.2	1774.5	1790.4
65°	507.0	670.7	850.3	1014.0	1151.3	1251.7	1309.8	1325.6	1346.8	1341.5	1330.9
67.5°	375.0	496.5	628.4	749.9	845.0	908.3	950.6	987.7	982.4	971.8	966.5
70°	258.8	338.0	454.2	528.1	596.8	660.2	670.7	676.0	681.3	686.6	676.0
72.5°	179.6	237.6	301.1	364.4	406.7	433.0	459.5	464.7	464.7	464.7	459.5
75°	89.8	121.5	179.6	206.0	242.9	253.5	274.6	274.6	290.5	269.3	264.0
77.5°	79.2	95.1	126.8	147.8	163.7	179.6	184.8	200.7	195.4	184.8	190.1
80°	47.6	58.1	79.2	89.8	110.9	116.2	121.5	126.8	121.5	126.8	126.8
82.5°	37.0	42.3	52.9	52.9	68.6	68.6	73.9	73.9	79.2	79.2	79.2
85°	21.1	37.0	31.7	63.3	42.3	42.3	52.9	63.3	52.9	52.9	63.3
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: P249423

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	9839.1	9839.1	9839.1	9839.1
2.5°	9854.9	9865.4	9849.6	9844.3
5°	9870.7	9870.7	9860.2	9860.2
7.5°	9870.7	9870.7	9854.9	9844.3
10°	9828.5	9828.5	9812.7	9802.1
12.5°	9749.2	9749.2	9743.9	9728.2
15°	9649.0	9649.0	9627.8	9612.0
17.5°	9511.6	9522.2	9495.8	9495.8
20°	9363.8	9358.5	9337.4	9326.8
22.5°	9210.6	9200.0	9194.7	9163.1
25°	9046.9	9036.3	9020.4	9004.6
27.5°	8767.0	8761.7	8745.8	8724.7
30°	8339.1	8333.8	8312.8	8312.8
32.5°	7784.6	7779.3	7758.3	7763.6
35°	7208.9	7230.1	7219.5	7198.5
37.5°	6728.4	6744.2	6754.8	6744.2
40°	6327.0	6374.5	6379.8	6390.4
42.5°	5899.2	5962.6	5983.8	5994.2
45°	5386.9	5445.0	5492.6	5482.0
47.5°	4864.0	4906.3	4948.5	4916.9
50°	4362.4	4388.7	4404.6	4404.6
52.5°	3887.1	3887.1	3881.8	3887.1
55°	3343.0	3343.0	3322.0	3332.5
57.5°	2772.7	2783.2	2767.4	2741.0
60°	2244.5	2218.1	2207.5	2191.8
62.5°	1748.2	1748.2	1711.2	1758.6
65°	1309.8	1293.9	1278.0	1272.7
67.5°	950.6	945.4	929.5	924.2
70°	670.7	649.6	644.3	633.7
72.5°	448.9	448.9	438.3	438.3
75°	274.6	248.2	242.9	248.2
77.5°	190.1	184.8	184.8	179.6
80°	126.8	121.5	132.1	116.2
82.5°	79.2	84.5	79.2	84.5
85°	52.9	63.3	58.1	58.1
87.5°	31.7	31.7	31.7	31.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)