

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: P249207

Luminaire Tested: **LD8B200D010 ER8B200830 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249207
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 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20963.0 lumens
Efficiency: N/A
Efficacy: 93.9 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

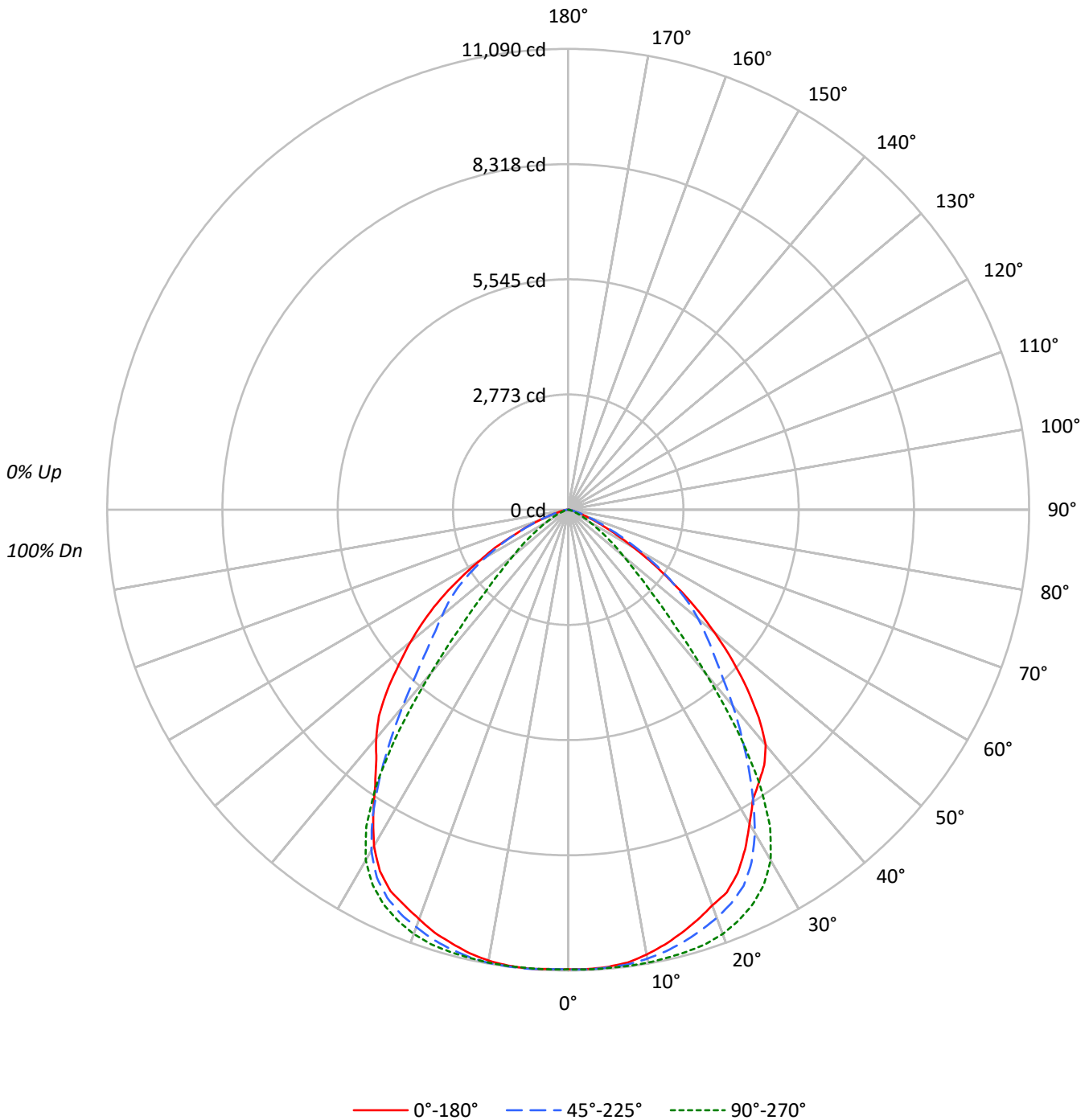
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	341065	341065	341065
5°	341814	342736	343105
10°	340377	346511	345024
15°	336605	351580	344949
20°	332564	356522	344059
25°	328248	356933	344409
30°	310540	346898	332734
35°	301270	301489	304621
40°	297537	207437	289172
45°	265117	124535	268741
50°	220445	82883	237532
55°	165333	57138	201401
60°	112041	38077	151955
65°	67580	24699	104391
70°	37470	13389	64230
75°	16978	5659	33253
80°	14757	6322	23192
85°	16806	8385	23139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1055.6	5.0
10°-20°	3065.5	14.6
20°-30°	4652.9	22.2
30°-40°	4886.9	23.3
40°-50°	3663.9	17.5
50°-60°	2350.8	11.2
60°-70°	1005.6	4.8
70°-80°	237.6	1.1
80°-90°	44.2	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°	8774.0	41.9
0°-40°	13660.9	65.2
0°-60°	19675.6	93.9
0°-90°	20963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20963.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11060	11060	11060	11060	11060	
5°	11043	11060	11072	11090	11084	###
15°	10544	10764	11013	10942	10805	2974
25°	9648	9986	10491	10301	10122	4407
35°	8003	7558	8009	7914	8092	5023
45°	6079	4969	2856	4827	6162	4656
55°	3075	3075	1063	3206	3746	2790
65°	926	1092	338	1407	1431	989
75°	142	166	48	285	279	208
85°	48	30	24	48	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°	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5
2.5°	11066.4	11078.4	11072.4	11072.4	11066.4	11072.4	11072.4	11084.3	11084.3	11072.4	11066.4
5°	11042.6	11054.5	11054.5	11042.6	11042.6	11072.4	11054.5	11066.4	11066.4	11060.5	11060.5
7.5°	10989.3	10989.3	11013.0	10995.3	10995.3	11013.0	11007.0	11018.9	11030.9	11036.8	11036.8
10°	10870.5	10882.4	10888.3	10888.3	10894.3	10912.0	10923.9	10947.8	10959.5	10971.4	10977.4
12.5°	10722.2	10739.9	10745.8	10739.9	10757.8	10781.4	10811.2	10840.8	10858.7	10882.4	10900.3
15°	10543.9	10543.9	10555.8	10573.7	10585.6	10621.2	10650.8	10686.4	10733.9	10763.7	10793.3
17.5°	10348.1	10360.0	10377.7	10377.7	10401.6	10460.8	10478.7	10532.2	10585.6	10615.2	10674.7
20°	10134.4	10146.2	10164.0	10176.0	10205.6	10253.1	10288.7	10336.2	10395.6	10449.1	10508.3
22.5°	9968.1	9944.4	9956.2	9968.1	9997.9	10039.4	10081.0	10140.2	10199.6	10253.1	10312.5
25°	9647.5	9653.4	9671.3	9683.1	9718.8	9754.4	9801.9	9873.1	9926.5	9985.9	10051.2
27.5°	9214.1	9220.1	9249.7	9249.7	9279.4	9338.8	9368.4	9427.8	9499.2	9558.4	9635.7
30°	8721.4	8733.2	8733.2	8757.0	8774.7	8804.5	8834.1	8893.5	8929.1	8982.6	9089.5
32.5°	8270.2	8282.0	8276.0	8270.2	8252.3	8246.4	8240.4	8252.3	8264.2	8282.0	8323.5
35°	8003.1	7973.3	7949.6	7908.0	7860.5	7801.1	7747.7	7676.5	7611.1	7557.7	7498.4
37.5°	7747.7	7741.7	7706.1	7646.7	7551.7	7444.9	7320.3	7165.9	7011.5	6845.3	6685.0
40°	7391.5	7373.6	7344.0	7260.9	7154.0	7023.4	6857.2	6667.2	6417.8	6162.5	5901.3
42.5°	6785.9	6791.8	6756.2	6690.9	6590.0	6465.3	6293.1	6085.4	5818.2	5515.4	5177.0
45°	6079.4	6079.4	6067.5	6014.1	5942.9	5841.9	5711.3	5539.2	5278.0	4969.2	4607.0
47.5°	5343.2	5349.2	5331.3	5319.5	5289.8	5224.5	5129.5	4998.9	4814.9	4518.0	4155.8
50°	4595.2	4595.2	4624.9	4618.9	4618.9	4595.2	4553.7	4476.4	4316.2	4078.7	3740.3
52.5°	3847.1	3859.0	3876.9	3900.6	3930.2	3977.7	3930.2	3894.6	3793.7	3609.6	3318.8
55°	3075.3	3087.2	3116.9	3158.4	3194.1	3241.6	3253.4	3253.4	3199.9	3075.3	2855.7
57.5°	2416.4	2398.5	2422.3	2457.9	2505.4	2552.9	2588.5	2630.1	2624.1	2541.0	2362.9
60°	1816.7	1822.7	1840.4	1876.1	1911.7	1953.3	2000.8	2036.4	2054.2	2012.7	1899.8
62.5°	1324.0	1324.0	1347.6	1383.2	1401.1	1460.5	1490.2	1508.0	1525.7	1519.8	1448.6
65°	926.2	938.0	949.9	967.8	985.5	1021.1	1039.0	1074.5	1086.5	1092.4	1039.0
67.5°	653.1	635.3	647.2	658.9	676.8	700.6	736.2	736.2	753.9	753.9	718.3
70°	415.6	415.6	421.6	439.3	451.2	457.2	469.1	480.8	498.7	492.7	492.7
72.5°	279.1	273.1	279.1	285.0	291.0	308.7	308.7	314.6	326.6	332.5	308.7
75°	142.5	148.5	160.2	154.4	172.1	160.2	166.2	184.1	178.1	166.2	166.2
77.5°	118.7	118.7	118.7	112.9	124.6	124.6	118.7	130.6	124.6	124.6	118.7
80°	83.1	89.0	83.1	77.1	83.1	77.1	77.1	77.1	77.1	77.1	71.2
82.5°	65.4	53.5	59.4	53.5	59.4	59.4	53.5	47.5	47.5	53.5	47.5
85°	47.5	35.6	41.5	41.5	35.6	35.6	35.6	35.6	35.6	29.6	29.6
87.5°	29.6	17.9	17.9	17.9	23.7	23.7	23.7	17.9	23.7	23.7	11.9
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°	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5
2.5°	11078.4	11072.4	11084.3	11078.4	11078.4	11072.4	11078.4	11072.4	11084.3	11060.5	11066.4
5°	11078.4	11066.4	11072.4	11078.4	11084.3	11072.4	11072.4	11072.4	11084.3	11072.4	11078.4
7.5°	11054.5	11048.6	11066.4	11078.4	11072.4	11066.4	11078.4	11072.4	11084.3	11078.4	11090.1
10°	11007.0	11013.0	11024.9	11042.6	11048.6	11054.5	11066.4	11066.4	11084.3	11060.5	11072.4
12.5°	10935.9	10959.5	10989.3	11001.1	11024.9	11024.9	11036.8	11042.6	11054.5	11048.6	11066.4
15°	10846.8	10876.4	10912.0	10941.8	10971.4	10989.3	11007.0	11013.0	11030.9	11013.0	11018.9
17.5°	10739.9	10775.5	10828.9	10864.5	10912.0	10929.9	10953.6	10965.5	10983.4	10971.4	10977.4
20°	10591.4	10633.1	10692.4	10745.8	10775.5	10817.0	10846.8	10864.5	10876.4	10864.5	10870.5
22.5°	10383.7	10443.1	10520.2	10561.8	10621.2	10656.8	10662.7	10704.3	10733.9	10704.3	10716.2
25°	10140.2	10199.6	10259.1	10348.1	10401.6	10443.1	10484.7	10490.6	10520.2	10514.3	10508.3
27.5°	9736.5	9813.8	9914.6	9985.9	10057.1	10122.5	10170.0	10181.8	10211.5	10199.6	10205.6
30°	9184.4	9267.6	9362.6	9475.3	9576.3	9641.5	9700.9	9742.5	9772.1	9754.4	9748.4
32.5°	8400.8	8483.9	8584.8	8697.6	8816.4	8911.3	8982.6	9036.0	9071.6	9059.7	9030.1
35°	7504.3	7528.0	7593.4	7682.4	7783.3	7884.2	7949.6	8008.9	8050.4	8062.3	8062.3
37.5°	6584.1	6506.9	6459.4	6459.4	6518.7	6560.3	6619.7	6655.3	6720.6	6744.3	6762.2
40°	5693.5	5515.4	5349.2	5224.5	5141.4	5135.5	5135.5	5153.2	5212.6	5289.8	5361.1
42.5°	4898.0	4613.0	4357.7	4126.2	3960.0	3865.0	3823.4	3829.4	3876.9	3948.1	4066.8
45°	4262.7	3906.5	3585.9	3306.9	3081.3	2932.8	2861.6	2855.7	2891.3	2974.3	3105.1
47.5°	3770.0	3390.0	3027.8	2707.2	2463.9	2303.5	2220.4	2196.7	2220.4	2297.5	2452.0
50°	3360.3	2968.5	2594.5	2262.0	2000.8	1834.6	1757.3	1727.7	1757.3	1822.7	1976.9
52.5°	2980.3	2576.6	2226.4	1905.8	1626.7	1484.2	1401.1	1383.2	1401.1	1478.2	1603.0
55°	2541.0	2196.7	1852.3	1531.7	1288.4	1145.9	1080.5	1062.8	1080.5	1151.8	1282.4
57.5°	2107.7	1810.8	1508.0	1217.0	1009.3	884.5	825.3	801.4	843.0	890.5	1044.9
60°	1703.8	1466.5	1211.1	955.9	783.7	670.8	623.3	617.4	629.3	688.7	795.5
62.5°	1335.9	1139.9	938.0	730.3	587.8	540.2	480.8	475.0	486.8	522.4	605.6
65°	961.8	837.2	682.8	534.3	421.6	356.2	332.5	338.5	350.2	374.1	451.2
67.5°	670.8	581.8	475.0	374.1	291.0	261.2	237.5	231.6	237.5	279.1	320.6
70°	451.2	397.7	320.6	285.0	201.9	160.2	166.2	148.5	172.1	172.1	207.7
72.5°	296.8	261.2	213.7	166.2	142.5	112.9	112.9	106.9	118.7	124.6	154.4
75°	154.4	118.7	118.7	83.1	59.4	29.6	53.5	47.5	41.5	47.5	59.4
77.5°	106.9	89.0	83.1	65.4	59.4	47.5	47.5	47.5	47.5	53.5	59.4
80°	65.4	65.4	47.5	41.5	35.6	29.6	35.6	35.6	35.6	35.6	41.5
82.5°	41.5	35.6	35.6	29.6	29.6	23.7	23.7	23.7	23.7	23.7	35.6
85°	35.6	23.7	23.7	17.9	23.7	41.5	17.9	23.7	23.7	23.7	17.9
87.5°	11.9	17.9	17.9	17.9	11.9	6.0	11.9	17.9	17.9	29.6	23.7
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°	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5	11060.5
2.5°	11078.4	11084.3	11084.3	11078.4	11078.4	11066.4	11090.1	11072.4	11078.4	11102.0	11084.3
5°	11090.1	11096.1	11096.1	11090.1	11090.1	11090.1	11090.1	11096.1	11096.1	11090.1	11084.3
7.5°	11113.9	11108.0	11108.0	11096.1	11096.1	11084.3	11096.1	11078.4	11090.1	11078.4	11096.1
10°	11084.3	11090.1	11084.3	11078.4	11078.4	11072.4	11072.4	11054.5	11060.5	11042.6	11054.5
12.5°	11066.4	11060.5	11060.5	11048.6	11036.8	11024.9	11018.9	11001.1	11001.1	10959.5	10977.4
15°	11018.9	11024.9	11007.0	10983.4	10971.4	10941.8	10929.9	10906.1	10882.4	10852.8	10858.7
17.5°	10977.4	10959.5	10935.9	10912.0	10864.5	10840.8	10817.0	10781.4	10769.5	10733.9	10722.2
20°	10852.8	10840.8	10811.2	10769.5	10739.9	10686.4	10662.7	10627.2	10597.4	10561.8	10543.9
22.5°	10692.4	10680.5	10644.9	10603.3	10555.8	10532.2	10508.3	10443.1	10413.3	10377.7	10371.8
25°	10490.6	10472.7	10437.1	10389.6	10365.8	10300.6	10276.8	10229.3	10217.5	10181.8	10176.0
27.5°	10181.8	10158.1	10116.5	10057.1	10015.6	9974.0	9950.4	9914.6	9902.9	9867.1	9861.3
30°	9718.8	9689.0	9605.9	9582.3	9510.9	9469.4	9469.4	9421.9	9427.8	9404.2	9404.2
32.5°	8988.5	8941.0	8875.7	8828.2	8780.7	8757.0	8757.0	8739.1	8751.0	8751.0	8762.9
35°	8020.8	7955.5	7919.8	7890.2	7890.2	7913.9	7985.2	8003.1	8038.6	8068.3	8092.1
37.5°	6779.9	6774.1	6815.6	6851.2	6940.3	7041.2	7165.9	7272.8	7373.6	7444.9	7516.1
40°	5438.2	5586.7	5705.4	5871.7	6008.1	6204.1	6429.7	6613.7	6785.9	6910.6	7041.2
42.5°	4244.9	4434.9	4684.3	4927.6	5171.1	5438.2	5735.1	5990.4	6216.0	6388.1	6524.7
45°	3306.9	3568.1	3870.9	4179.6	4494.3	4826.8	5135.5	5396.7	5634.2	5812.3	5948.8
47.5°	2665.7	2950.7	3295.0	3633.4	3989.6	4339.9	4684.3	4909.9	5105.7	5248.2	5373.0
50°	2202.5	2505.4	2867.6	3253.4	3609.6	3960.0	4256.8	4476.4	4636.8	4761.4	4838.6
52.5°	1840.4	2161.0	2547.0	2932.8	3289.0	3609.6	3876.9	4043.1	4173.7	4262.7	4333.9
55°	1519.8	1828.6	2190.8	2552.9	2903.2	3205.9	3425.5	3550.3	3651.1	3704.6	3746.2
57.5°	1240.9	1525.7	1858.3	2190.8	2493.5	2742.9	2915.1	3039.7	3087.2	3128.8	3122.8
60°	973.7	1240.9	1543.6	1828.6	2089.8	2291.6	2416.4	2487.6	2523.1	2541.0	2529.1
62.5°	765.8	1009.3	1240.9	1490.2	1680.2	1852.3	1971.1	1971.1	1988.9	1994.8	2012.7
65°	569.9	753.9	955.9	1139.9	1294.2	1407.1	1472.4	1490.2	1514.0	1508.0	1496.1
67.5°	421.6	558.1	706.4	843.0	949.9	1021.1	1068.6	1110.3	1104.3	1092.4	1086.5
70°	291.0	380.0	510.6	593.7	670.8	742.2	753.9	759.9	765.8	771.8	759.9
72.5°	201.9	267.1	338.5	409.7	457.2	486.8	516.6	522.4	522.4	522.4	516.6
75°	101.0	136.6	201.9	231.6	273.1	285.0	308.7	308.7	326.6	302.7	296.8
77.5°	89.0	106.9	142.5	166.2	184.1	201.9	207.7	225.6	219.6	207.7	213.7
80°	53.5	65.4	89.0	101.0	124.6	130.6	136.6	142.5	136.6	142.5	142.5
82.5°	41.5	47.5	59.4	59.4	77.1	77.1	83.1	83.1	89.0	89.0	89.0
85°	23.7	41.5	35.6	71.2	47.5	47.5	59.4	71.2	59.4	59.4	71.2
87.5°	23.7	23.7	17.9	23.7	23.7	23.7	29.6	35.6	35.6	41.5	35.6
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: P249207

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11060.5	11060.5	11060.5	11060.5
2.5°	11078.4	11090.1	11072.4	11066.4
5°	11096.1	11096.1	11084.3	11084.3
7.5°	11096.1	11096.1	11078.4	11066.4
10°	11048.6	11048.6	11030.9	11018.9
12.5°	10959.5	10959.5	10953.6	10935.9
15°	10846.8	10846.8	10823.0	10805.3
17.5°	10692.4	10704.3	10674.7	10674.7
20°	10526.2	10520.2	10496.6	10484.7
22.5°	10354.1	10342.1	10336.2	10300.6
25°	10170.0	10158.1	10140.2	10122.5
27.5°	9855.4	9849.4	9831.5	9807.9
30°	9374.4	9368.4	9344.7	9344.7
32.5°	8751.0	8745.1	8721.4	8727.4
35°	8103.9	8127.7	8115.8	8092.1
37.5°	7563.6	7581.5	7593.4	7581.5
40°	7112.4	7165.9	7171.8	7183.7
42.5°	6631.6	6702.8	6726.6	6738.4
45°	6055.6	6121.0	6174.4	6162.5
47.5°	5467.9	5515.4	5562.9	5527.3
50°	4903.9	4933.6	4951.4	4951.4
52.5°	4369.6	4369.6	4363.7	4369.6
55°	3758.1	3758.1	3734.4	3746.2
57.5°	3116.9	3128.8	3110.9	3081.3
60°	2523.1	2493.5	2481.6	2463.9
62.5°	1965.2	1965.2	1923.6	1976.9
65°	1472.4	1454.6	1436.7	1430.7
67.5°	1068.6	1062.8	1044.9	1039.0
70°	753.9	730.3	724.3	712.4
72.5°	504.7	504.7	492.7	492.7
75°	308.7	279.1	273.1	279.1
77.5°	213.7	207.7	207.7	201.9
80°	142.5	136.6	148.5	130.6
82.5°	89.0	95.0	89.0	95.0
85°	59.4	71.2	65.4	65.4
87.5°	35.6	35.6	35.6	35.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)