

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: P249126

Luminaire Tested: **LD8B200D010 ER8B200850 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249126
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 ER8B200850 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22196.0 lumens
Efficiency: N/A
Efficacy: 99.4 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

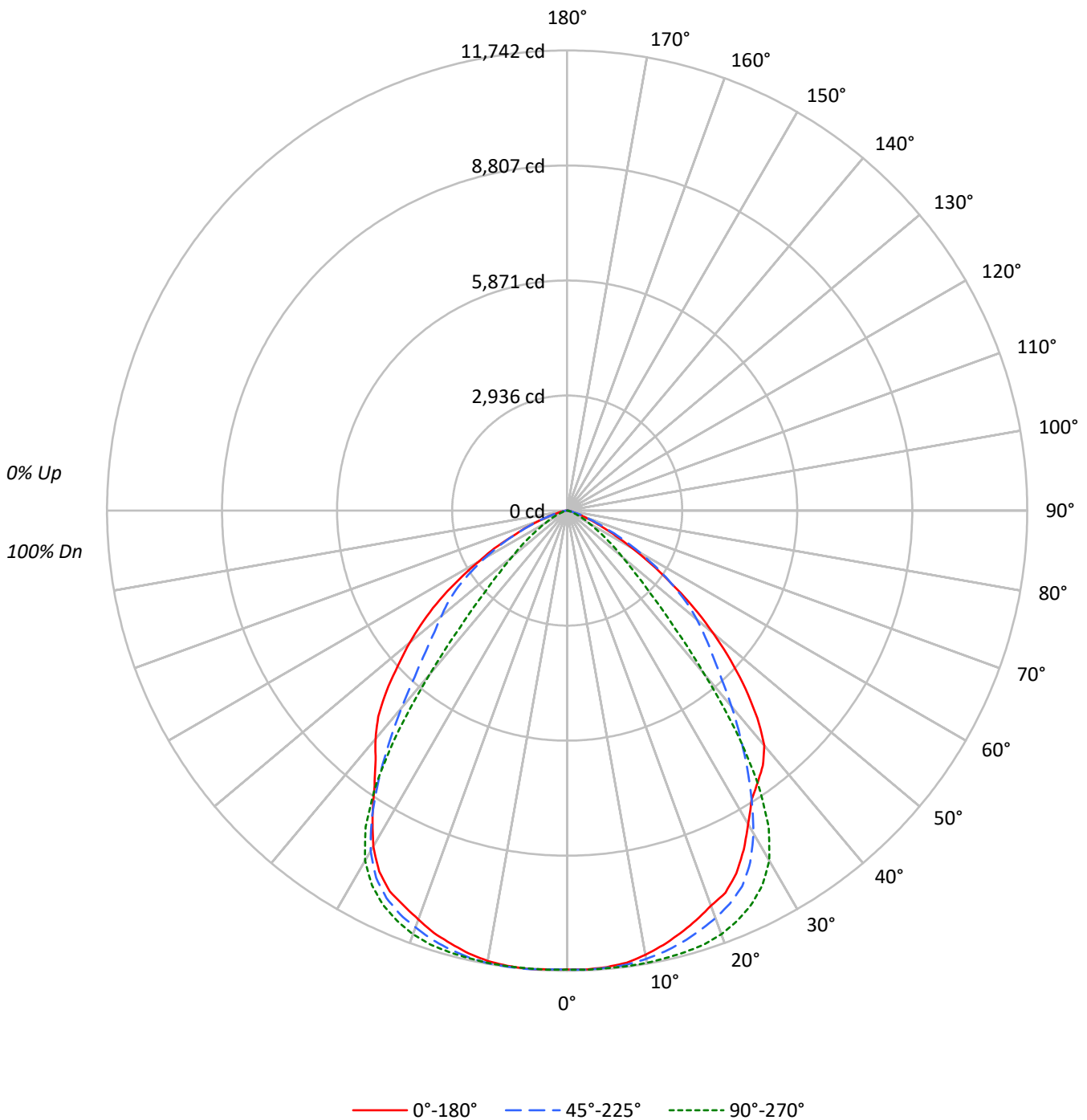
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249126

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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°	361124	361124	361124
5°	361918	362897	363287
10°	360398	366895	365320
15°	356404	372261	365237
20°	352125	377494	364293
25°	347553	377926	364667
30°	328807	367301	352307
35°	318989	319219	322539
40°	315035	219638	306184
45°	280712	131857	284550
50°	233412	87757	251507
55°	175058	60498	213245
60°	118633	40315	160892
65°	71557	26151	110535
70°	39679	14173	68007
75°	17979	5993	35207
80°	15627	6695	24559
85°	17796	8881	24483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1117.7	5.0
10°-20°	3245.8	14.6
20°-30°	4926.5	22.2
30°-40°	5174.3	23.3
40°-50°	3879.4	17.5
50°-60°	2489.1	11.2
60°-70°	1064.8	4.8
70°-80°	251.6	1.1
80°-90°	46.8	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°	9290.0	41.9
0°-40°	14464.4	65.2
0°-60°	20832.9	93.9
0°-90°	22196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22196.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11711	11711	11711	11711	11711	
5°	11692	11711	11724	11742	11736	###
15°	11164	11397	11661	11585	11441	3149
25°	10215	10573	11108	10906	10718	4667
35°	8474	8002	8480	8379	8568	5318
45°	6437	5261	3024	5111	6525	4930
55°	3256	3256	1125	3394	3966	2954
65°	981	1157	358	1490	1515	1047
75°	151	176	50	302	296	220
85°	50	31	25	50	69	53
90°	0	0	0	0	0	



TEST NUMBER: P249126

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0
2.5°	11717.4	11730.0	11723.7	11723.7	11717.4	11723.7	11723.7	11736.3	11736.3	11723.7	11717.4
5°	11692.1	11704.7	11704.7	11692.1	11692.1	11723.7	11704.7	11717.4	11717.4	11711.0	11711.0
7.5°	11635.7	11635.7	11660.8	11642.0	11642.0	11660.8	11654.4	11667.1	11679.7	11686.0	11686.0
10°	11509.9	11522.5	11528.8	11528.8	11535.1	11553.9	11566.5	11591.7	11604.1	11616.8	11623.1
12.5°	11352.8	11371.6	11377.9	11371.6	11390.5	11415.6	11447.1	11478.5	11497.4	11522.5	11541.4
15°	11164.1	11164.1	11176.7	11195.6	11208.2	11245.9	11277.3	11315.0	11365.3	11396.8	11428.2
17.5°	10956.8	10969.4	10988.1	10988.1	11013.4	11076.1	11095.0	11151.6	11208.2	11239.6	11302.5
20°	10730.5	10743.0	10761.9	10774.5	10805.9	10856.2	10893.8	10944.1	11007.0	11063.7	11126.4
22.5°	10554.4	10529.3	10541.8	10554.4	10585.9	10629.9	10673.9	10736.7	10799.6	10856.2	10919.1
25°	10214.9	10221.2	10240.1	10252.6	10290.4	10328.1	10378.4	10453.8	10510.4	10573.3	10642.4
27.5°	9756.1	9762.4	9793.8	9793.8	9825.2	9888.1	9919.5	9982.4	10057.9	10120.6	10202.5
30°	9234.4	9246.8	9246.8	9272.1	9290.8	9322.4	9353.7	9416.6	9454.3	9510.9	9624.1
32.5°	8756.6	8769.1	8762.8	8756.6	8737.7	8731.4	8725.1	8737.7	8750.3	8769.1	8813.1
35°	8473.8	8442.2	8417.2	8373.2	8322.9	8260.0	8203.4	8128.0	8058.8	8002.2	7939.4
37.5°	8203.4	8197.1	8159.4	8096.5	7995.9	7882.8	7750.9	7587.4	7423.9	7247.9	7078.2
40°	7826.2	7807.3	7775.9	7688.0	7574.8	7436.5	7260.5	7059.3	6795.2	6525.0	6248.4
42.5°	7185.0	7191.3	7153.6	7084.4	6977.7	6845.5	6663.3	6443.3	6160.5	5839.8	5481.5
45°	6437.0	6437.0	6424.4	6367.8	6292.4	6185.5	6047.2	5865.0	5588.4	5261.4	4878.0
47.5°	5657.5	5663.8	5644.9	5632.4	5600.9	5531.8	5431.2	5293.0	5098.1	4783.7	4400.2
50°	4865.5	4865.5	4896.9	4890.6	4890.6	4865.5	4821.5	4739.7	4570.0	4318.6	3960.3
52.5°	4073.4	4086.0	4104.9	4130.0	4161.4	4211.7	4161.4	4123.7	4016.8	3821.9	3514.0
55°	3256.2	3268.8	3300.2	3344.2	3382.0	3432.3	3444.8	3444.8	3388.2	3256.2	3023.6
57.5°	2558.5	2539.6	2564.8	2602.5	2652.8	2703.1	2740.8	2784.8	2778.4	2690.5	2501.9
60°	1923.6	1929.9	1948.6	1986.5	2024.2	2068.1	2118.4	2156.1	2175.0	2131.1	2011.5
62.5°	1401.8	1401.8	1426.9	1464.6	1483.5	1546.4	1577.8	1596.7	1615.5	1609.2	1533.8
65°	980.7	993.2	1005.8	1024.7	1043.5	1081.1	1100.1	1137.7	1150.4	1156.7	1100.1
67.5°	691.5	672.6	685.2	697.7	716.6	741.8	779.5	779.5	798.3	798.3	760.6
70°	440.1	440.1	446.4	465.1	477.7	484.0	496.7	509.1	528.0	521.7	521.7
72.5°	295.5	289.2	295.5	301.8	308.1	326.9	326.9	333.2	345.8	352.1	326.9
75°	150.9	157.2	169.7	163.5	182.3	169.7	176.0	194.9	188.6	176.0	176.0
77.5°	125.7	125.7	125.7	119.5	132.0	132.0	125.7	138.3	132.0	132.0	125.7
80°	88.0	94.3	88.0	81.7	88.0	81.7	81.7	81.7	81.7	81.7	75.4
82.5°	69.2	56.6	62.9	56.6	62.9	62.9	56.6	50.3	50.3	56.6	50.3
85°	50.3	37.7	44.0	44.0	37.7	37.7	37.7	37.7	37.7	31.4	31.4
87.5°	31.4	18.9	18.9	18.9	25.1	25.1	25.1	18.9	25.1	25.1	12.6
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: P249126

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0
2.5°	11730.0	11723.7	11736.3	11730.0	11730.0	11723.7	11730.0	11723.7	11736.3	11711.0	11717.4
5°	11730.0	11717.4	11723.7	11730.0	11736.3	11723.7	11723.7	11723.7	11736.3	11723.7	11730.0
7.5°	11704.7	11698.4	11717.4	11730.0	11723.7	11717.4	11730.0	11723.7	11736.3	11730.0	11742.4
10°	11654.4	11660.8	11673.4	11692.1	11698.4	11704.7	11717.4	11717.4	11736.3	11711.0	11723.7
12.5°	11579.1	11604.1	11635.7	11648.1	11673.4	11673.4	11686.0	11692.1	11704.7	11698.4	11717.4
15°	11484.8	11516.2	11553.9	11585.4	11616.8	11635.7	11654.4	11660.8	11679.7	11660.8	11667.1
17.5°	11371.6	11409.3	11465.9	11503.6	11553.9	11572.8	11597.8	11610.5	11629.4	11616.8	11623.1
20°	11214.4	11258.5	11321.3	11377.9	11409.3	11453.3	11484.8	11503.6	11516.2	11503.6	11509.9
22.5°	10994.4	11057.3	11139.0	11183.0	11245.9	11283.6	11289.9	11333.9	11365.3	11333.9	11346.5
25°	10736.7	10799.6	10862.5	10956.8	11013.4	11057.3	11101.3	11107.6	11139.0	11132.7	11126.4
27.5°	10309.2	10391.0	10497.8	10573.3	10648.7	10717.9	10768.2	10780.6	10812.2	10799.6	10805.9
30°	9724.6	9812.7	9913.3	10032.7	10139.6	10208.6	10271.5	10315.5	10346.9	10328.1	10321.8
32.5°	8894.9	8982.9	9089.8	9209.2	9335.0	9435.4	9510.9	9567.5	9605.2	9592.6	9561.2
35°	7945.7	7970.8	8040.0	8134.3	8241.1	8348.0	8417.2	8479.9	8523.9	8536.5	8536.5
37.5°	6971.3	6889.7	6839.4	6839.4	6902.1	6946.1	7009.0	7046.7	7115.9	7141.0	7159.9
40°	6028.3	5839.8	5663.8	5531.8	5443.8	5437.5	5437.5	5456.3	5519.2	5600.9	5676.4
42.5°	5186.1	4884.3	4614.0	4368.9	4192.9	4092.3	4048.3	4054.6	4104.9	4180.3	4306.0
45°	4513.4	4136.3	3796.8	3501.4	3262.5	3105.3	3029.9	3023.6	3061.3	3149.3	3287.7
47.5°	3991.7	3589.3	3205.9	2866.4	2608.8	2439.0	2351.0	2325.9	2351.0	2432.7	2596.2
50°	3558.0	3143.1	2747.1	2395.0	2118.4	1942.5	1860.7	1829.3	1860.7	1929.9	2093.2
52.5°	3155.6	2728.2	2357.3	2017.9	1722.4	1571.5	1483.5	1464.6	1483.5	1565.2	1697.3
55°	2690.5	2325.9	1961.3	1621.8	1364.2	1213.3	1144.1	1125.3	1144.1	1219.6	1357.8
57.5°	2231.6	1917.3	1596.7	1288.6	1068.7	936.6	873.8	848.6	892.6	942.9	1106.4
60°	1804.1	1552.7	1282.3	1012.1	829.8	710.3	660.0	653.7	666.3	729.2	842.3
62.5°	1414.4	1207.0	993.2	773.2	622.3	572.0	509.1	503.0	515.4	553.1	641.2
65°	1018.4	886.4	722.9	565.7	446.4	377.1	352.1	358.4	370.8	396.1	477.7
67.5°	710.3	616.0	503.0	396.1	308.1	276.6	251.5	245.2	251.5	295.5	339.5
70°	477.7	421.1	339.5	301.8	213.8	169.7	176.0	157.2	182.3	182.3	220.0
72.5°	314.2	276.6	226.3	176.0	150.9	119.5	119.5	113.2	125.7	132.0	163.5
75°	163.5	125.7	125.7	88.0	62.9	31.4	56.6	50.3	44.0	50.3	62.9
77.5°	113.2	94.3	88.0	69.2	62.9	50.3	50.3	50.3	50.3	56.6	62.9
80°	69.2	69.2	50.3	44.0	37.7	31.4	37.7	37.7	37.7	37.7	44.0
82.5°	44.0	37.7	37.7	31.4	31.4	25.1	25.1	25.1	25.1	25.1	37.7
85°	37.7	25.1	25.1	18.9	25.1	44.0	18.9	25.1	25.1	25.1	18.9
87.5°	12.6	18.9	18.9	18.9	12.6	6.3	12.6	18.9	18.9	31.4	25.1
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: P249126

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0	11711.0
2.5°	11730.0	11736.3	11736.3	11730.0	11730.0	11717.4	11742.4	11723.7	11730.0	11755.0	11736.3
5°	11742.4	11748.7	11748.7	11742.4	11742.4	11742.4	11748.7	11748.7	11742.4	11736.3	11748.7
7.5°	11767.6	11761.3	11761.3	11748.7	11748.7	11736.3	11748.7	11730.0	11742.4	11730.0	11748.7
10°	11736.3	11742.4	11736.3	11730.0	11730.0	11723.7	11723.7	11704.7	11711.0	11692.1	11704.7
12.5°	11717.4	11711.0	11711.0	11698.4	11686.0	11673.4	11667.1	11648.1	11648.1	11604.1	11623.1
15°	11667.1	11673.4	11654.4	11629.4	11616.8	11585.4	11572.8	11547.5	11522.5	11491.1	11497.4
17.5°	11623.1	11604.1	11579.1	11553.9	11503.6	11478.5	11453.3	11415.6	11403.0	11365.3	11352.8
20°	11491.1	11478.5	11447.1	11403.0	11371.6	11315.0	11289.9	11252.2	11220.7	11183.0	11164.1
22.5°	11321.3	11308.7	11271.0	11227.0	11176.7	11151.6	11126.4	11057.3	11025.8	10988.1	10981.8
25°	11107.6	11088.7	11051.0	11000.7	10975.5	10906.5	10881.2	10830.9	10818.5	10780.6	10774.5
27.5°	10780.6	10755.6	10711.6	10648.7	10604.7	10560.7	10535.6	10497.8	10485.3	10447.5	10441.3
30°	10290.4	10258.9	10170.9	10145.9	10070.3	10026.4	10026.4	9976.1	9982.4	9957.3	9957.3
32.5°	9517.2	9466.9	9397.7	9347.4	9297.1	9272.1	9272.1	9253.1	9265.8	9265.8	9278.4
35°	8492.5	8423.5	8385.6	8354.3	8354.3	8379.3	8454.9	8473.8	8511.5	8542.8	8568.1
37.5°	7178.7	7172.5	7216.5	7254.2	7348.5	7455.4	7587.4	7700.6	7807.3	7882.8	7958.2
40°	5758.1	5915.3	6040.9	6217.1	6361.5	6569.0	6807.8	7002.7	7185.0	7317.1	7455.4
42.5°	4494.5	4695.7	4959.8	5217.4	5475.2	5758.1	6072.5	6342.7	6581.6	6763.9	6908.4
45°	3501.4	3777.9	4098.6	4425.5	4758.6	5110.7	5437.5	5714.1	5965.6	6154.1	6298.7
47.5°	2822.4	3124.2	3488.8	3847.1	4224.3	4595.1	4959.8	5198.7	5406.0	5556.9	5689.0
50°	2332.1	2652.8	3036.2	3444.8	3821.9	4192.9	4507.1	4739.7	4909.5	5041.5	5123.2
52.5°	1948.6	2288.1	2696.8	3105.3	3482.4	3821.9	4104.9	4280.9	4419.2	4513.4	4588.8
55°	1609.2	1936.2	2319.6	2703.1	3073.9	3394.5	3627.0	3759.1	3865.9	3922.5	3966.5
57.5°	1313.9	1615.5	1967.6	2319.6	2640.2	2904.3	3086.5	3218.5	3268.8	3312.8	3306.5
60°	1031.0	1313.9	1634.4	1936.2	2212.7	2426.4	2558.5	2633.9	2671.6	2690.5	2677.9
62.5°	810.9	1068.7	1313.9	1577.8	1779.0	1961.3	2087.1	2087.1	2105.8	2112.1	2131.1
65°	603.4	798.3	1012.1	1207.0	1370.3	1489.8	1559.0	1577.8	1603.0	1596.7	1584.1
67.5°	446.4	590.9	748.0	892.6	1005.8	1081.1	1131.4	1175.6	1169.3	1156.7	1150.4
70°	308.1	402.4	540.6	628.6	710.3	785.8	798.3	804.6	810.9	817.2	804.6
72.5°	213.8	282.9	358.4	433.7	484.0	515.4	547.0	553.1	553.1	553.1	547.0
75°	106.9	144.6	213.8	245.2	289.2	301.8	326.9	326.9	345.8	320.5	314.2
77.5°	94.3	113.2	150.9	176.0	194.9	213.8	220.0	238.9	232.6	220.0	226.3
80°	56.6	69.2	94.3	106.9	132.0	138.3	144.6	150.9	144.6	150.9	150.9
82.5°	44.0	50.3	62.9	62.9	81.7	81.7	88.0	88.0	94.3	94.3	94.3
85°	25.1	44.0	37.7	75.4	50.3	50.3	62.9	75.4	62.9	62.9	75.4
87.5°	25.1	25.1	18.9	25.1	25.1	25.1	31.4	37.7	37.7	44.0	37.7
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: P249126

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11711.0	11711.0	11711.0	11711.0
2.5°	11730.0	11742.4	11723.7	11717.4
5°	11748.7	11748.7	11736.3	11736.3
7.5°	11748.7	11748.7	11730.0	11717.4
10°	11698.4	11698.4	11679.7	11667.1
12.5°	11604.1	11604.1	11597.8	11579.1
15°	11484.8	11484.8	11459.6	11440.8
17.5°	11321.3	11333.9	11302.5	11302.5
20°	11145.3	11139.0	11113.9	11101.3
22.5°	10963.1	10950.4	10944.1	10906.5
25°	10768.2	10755.6	10736.7	10717.9
27.5°	10435.0	10428.7	10409.8	10384.7
30°	9925.8	9919.5	9894.4	9894.4
32.5°	9265.8	9259.4	9234.4	9240.7
35°	8580.5	8605.7	8593.1	8568.1
37.5°	8008.5	8027.4	8040.0	8027.4
40°	7530.8	7587.4	7593.7	7606.3
42.5°	7021.6	7097.0	7122.2	7134.7
45°	6411.8	6481.0	6537.6	6525.0
47.5°	5789.5	5839.8	5890.1	5852.4
50°	5192.4	5223.7	5242.7	5242.7
52.5°	4626.6	4626.6	4620.3	4626.6
55°	3979.1	3979.1	3954.0	3966.5
57.5°	3300.2	3312.8	3293.9	3262.5
60°	2671.6	2640.2	2627.6	2608.8
62.5°	2080.8	2080.8	2036.8	2093.2
65°	1559.0	1540.1	1521.2	1514.9
67.5°	1131.4	1125.3	1106.4	1100.1
70°	798.3	773.2	766.9	754.3
72.5°	534.3	534.3	521.7	521.7
75°	326.9	295.5	289.2	295.5
77.5°	226.3	220.0	220.0	213.8
80°	150.9	144.6	157.2	138.3
82.5°	94.3	100.6	94.3	100.6
85°	62.9	75.4	69.2	69.2
87.5°	37.7	37.7	37.7	37.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)