

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: P249387

Luminaire Tested: **LD8B200D010 ER8B200950 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249387
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 ER8B200950 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19753.0 lumens
Efficiency: N/A
Efficacy: 88.5 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

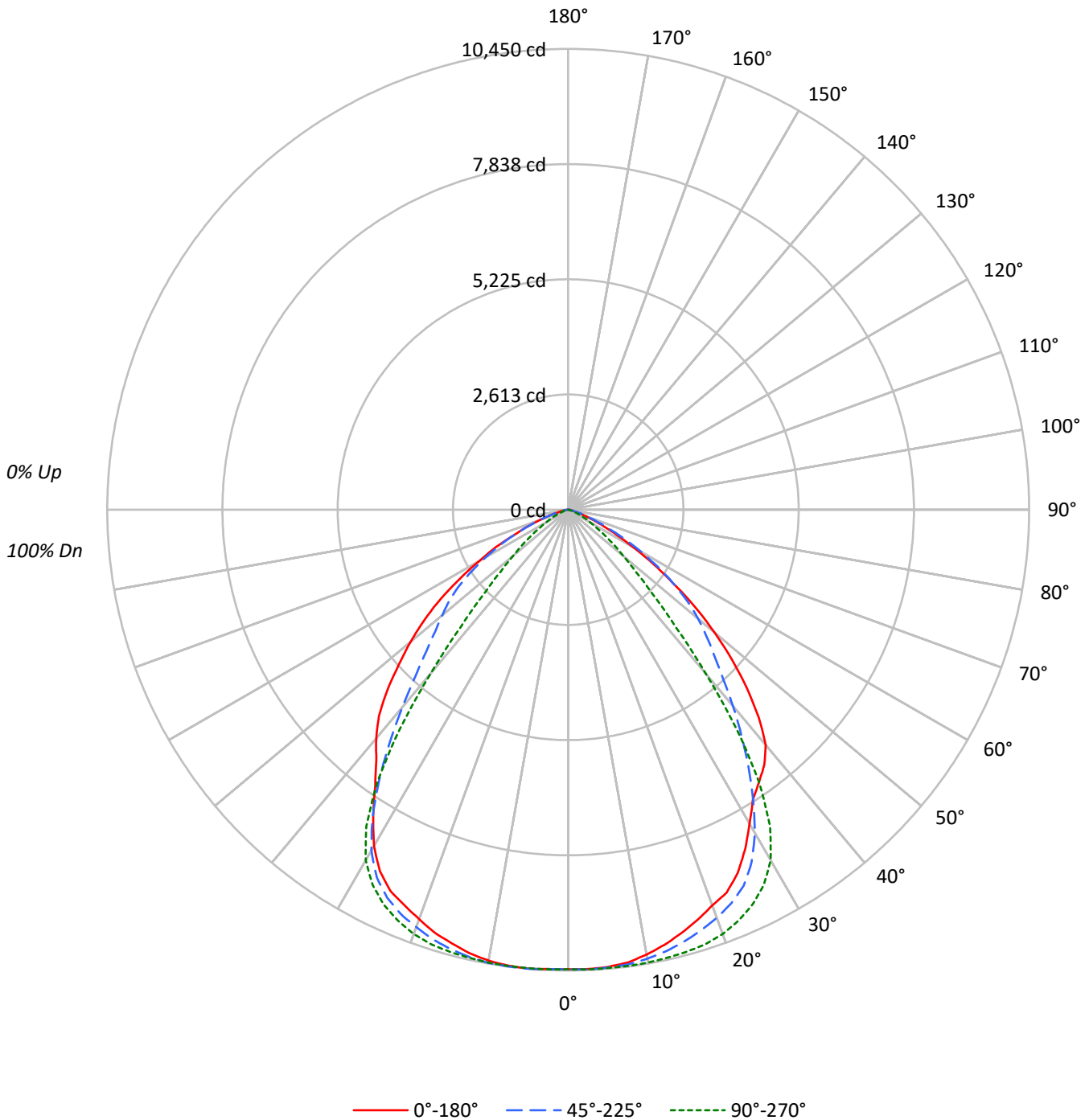
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	321379	321379	321379
5°	322084	322953	323300
10°	320729	326512	325110
15°	317176	331286	325038
20°	313367	335944	324199
25°	309300	336332	324529
30°	292616	326873	313531
35°	283879	284086	287037
40°	280361	195465	272483
45°	249815	117343	253230
50°	207722	78095	223822
55°	155790	53837	189773
60°	105571	35881	143185
65°	63684	23269	98371
70°	35306	12613	60524
75°	16001	5338	31323
80°	13904	5949	21860
85°	15851	7890	21795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.6	5.0
10°-20°	2888.6	14.6
20°-30°	4384.3	22.2
30°-40°	4604.8	23.3
40°-50°	3452.4	17.5
50°-60°	2215.1	11.2
60°-70°	947.6	4.8
70°-80°	223.9	1.1
80°-90°	41.6	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°	8267.5	41.9
0°-40°	12872.4	65.2
0°-60°	18539.9	93.9
0°-90°	19753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19753.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10422	10422	10422	10422	10422	
5°	10405	10422	10433	10450	10444	988
15°	9935	10142	10377	10310	10182	2802
25°	9091	9410	9885	9706	9538	4153
35°	7541	7121	7547	7457	7625	4733
45°	5728	4682	2691	4548	5807	4387
55°	2898	2898	1001	3021	3530	2629
65°	873	1029	319	1326	1348	932
75°	134	157	45	269	263	196
85°	45	28	22	45	62	47
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°	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1
2.5°	10427.7	10438.9	10433.3	10433.3	10427.7	10433.3	10433.3	10444.5	10444.5	10433.3	10427.7
5°	10405.2	10416.5	10416.5	10405.2	10405.2	10433.3	10416.5	10427.7	10427.7	10422.1	10422.1
7.5°	10355.0	10355.0	10377.3	10360.6	10360.6	10377.3	10371.7	10382.9	10394.1	10399.8	10399.8
10°	10243.0	10254.3	10259.9	10259.9	10265.5	10282.2	10293.4	10315.8	10326.9	10338.2	10343.8
12.5°	10103.3	10120.0	10125.6	10120.0	10136.8	10159.1	10187.2	10215.1	10231.9	10254.3	10271.1
15°	9935.3	9935.3	9946.5	9963.4	9974.6	10008.1	10036.1	10069.6	10114.4	10142.4	10170.3
17.5°	9750.8	9762.0	9778.7	9778.7	9801.2	9857.0	9873.9	9924.2	9974.6	10002.5	10058.5
20°	9549.4	9560.5	9577.4	9588.6	9616.5	9661.3	9694.8	9739.6	9795.6	9845.9	9901.8
22.5°	9392.7	9370.4	9381.5	9392.7	9420.8	9459.9	9499.1	9554.9	9610.9	9661.3	9717.3
25°	9090.6	9096.2	9113.1	9124.2	9157.8	9191.4	9236.1	9303.2	9353.6	9409.6	9471.0
27.5°	8682.3	8687.9	8715.8	8715.8	8743.8	8799.7	8827.7	8883.7	8950.9	9006.7	9079.5
30°	8218.0	8229.1	8229.1	8251.5	8268.2	8296.3	8324.2	8380.2	8413.7	8464.1	8564.9
32.5°	7792.8	7803.9	7798.3	7792.8	7776.0	7770.4	7764.8	7776.0	7787.2	7803.9	7843.1
35°	7541.1	7513.1	7490.7	7451.6	7406.8	7350.8	7300.5	7233.4	7171.8	7121.4	7065.6
37.5°	7300.5	7294.9	7261.3	7205.3	7115.8	7015.2	6897.8	6752.3	6606.8	6450.2	6299.2
40°	6964.8	6948.0	6920.1	6841.8	6741.0	6618.0	6461.4	6282.3	6047.3	5806.8	5560.7
42.5°	6394.2	6399.8	6366.3	6304.7	6209.7	6092.1	5929.9	5734.1	5482.4	5197.0	4878.2
45°	5728.5	5728.5	5717.3	5666.9	5599.8	5504.7	5381.7	5219.5	4973.3	4682.3	4341.1
47.5°	5034.8	5040.4	5023.6	5012.5	4984.4	4923.0	4833.4	4710.4	4537.0	4257.2	3915.9
50°	4330.0	4330.0	4357.9	4352.3	4352.3	4330.0	4290.8	4218.0	4067.0	3843.2	3524.4
52.5°	3625.1	3636.3	3653.1	3675.4	3703.3	3748.1	3703.3	3669.8	3574.7	3401.3	3127.2
55°	2897.8	2909.0	2936.9	2976.1	3009.8	3054.5	3065.6	3065.6	3015.2	2897.8	2690.8
57.5°	2276.9	2260.1	2282.5	2316.0	2360.8	2405.6	2439.1	2478.3	2472.6	2394.3	2226.5
60°	1711.8	1717.5	1734.2	1767.8	1801.4	1840.5	1885.3	1918.8	1935.6	1896.5	1790.1
62.5°	1247.5	1247.5	1269.9	1303.4	1320.2	1376.2	1404.1	1421.0	1437.7	1432.1	1365.0
65°	872.8	883.9	895.1	911.9	928.6	962.1	979.0	1012.5	1023.7	1029.4	979.0
67.5°	615.4	598.6	609.8	620.9	637.7	660.2	693.7	693.7	710.4	710.4	676.9
70°	391.6	391.6	397.2	413.9	425.2	430.8	442.0	453.1	469.9	464.3	464.3
72.5°	262.9	257.3	262.9	268.6	274.2	290.9	290.9	296.5	307.7	313.3	290.9
75°	134.3	139.9	151.0	145.5	162.2	151.0	156.6	173.4	167.8	156.6	156.6
77.5°	111.8	111.8	111.8	106.4	117.4	117.4	111.8	123.1	117.4	117.4	111.8
80°	78.3	83.9	78.3	72.7	78.3	72.7	72.7	72.7	72.7	72.7	67.1
82.5°	61.6	50.4	56.0	50.4	56.0	56.0	50.4	44.8	44.8	50.4	44.8
85°	44.8	33.5	39.1	39.1	33.5	33.5	33.5	33.5	33.5	27.9	27.9
87.5°	27.9	16.8	16.8	16.8	22.3	22.3	22.3	16.8	22.3	22.3	11.2
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°	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1
2.5°	10438.9	10433.3	10444.5	10438.9	10438.9	10433.3	10438.9	10433.3	10444.5	10422.1	10427.7
5°	10438.9	10427.7	10433.3	10438.9	10444.5	10433.3	10433.3	10433.3	10444.5	10433.3	10438.9
7.5°	10416.5	10410.8	10427.7	10438.9	10433.3	10427.7	10438.9	10433.3	10444.5	10438.9	10450.0
10°	10371.7	10377.3	10388.5	10405.2	10410.8	10416.5	10427.7	10427.7	10444.5	10422.1	10433.3
12.5°	10304.6	10326.9	10355.0	10366.1	10388.5	10388.5	10399.8	10405.2	10416.5	10410.8	10427.7
15°	10220.7	10248.6	10282.2	10310.2	10338.2	10355.0	10371.7	10377.3	10394.1	10377.3	10382.9
17.5°	10120.0	10153.5	10203.9	10237.4	10282.2	10299.0	10321.3	10332.6	10349.4	10338.2	10343.8
20°	9980.1	10019.4	10075.2	10125.6	10153.5	10192.7	10220.7	10237.4	10248.6	10237.4	10243.0
22.5°	9784.3	9840.3	9913.0	9952.2	10008.1	10041.7	10047.3	10086.4	10114.4	10086.4	10097.7
25°	9554.9	9610.9	9666.9	9750.8	9801.2	9840.3	9879.5	9885.1	9913.0	9907.4	9901.8
27.5°	9174.5	9247.3	9342.3	9409.6	9476.6	9538.2	9583.0	9594.1	9622.1	9610.9	9616.5
30°	8654.2	8732.7	8822.2	8928.4	9023.5	9085.0	9141.0	9180.1	9208.1	9191.4	9185.8
32.5°	7915.9	7994.2	8089.3	8195.5	8307.5	8396.9	8464.1	8514.5	8548.0	8536.8	8508.9
35°	7071.2	7093.5	7155.1	7239.0	7334.0	7429.1	7490.7	7546.6	7585.7	7597.0	7597.0
37.5°	6204.0	6131.4	6086.6	6086.6	6142.5	6181.6	6237.6	6271.1	6332.7	6355.0	6371.9
40°	5364.8	5197.0	5040.4	4923.0	4844.7	4839.1	4839.1	4855.8	4911.7	4984.4	5051.6
42.5°	4615.3	4346.7	4106.2	3888.0	3731.4	3641.9	3602.7	3608.3	3653.1	3720.2	3832.0
45°	4016.7	3681.0	3378.9	3116.0	2903.4	2763.5	2696.4	2690.8	2724.4	2802.7	2925.9
47.5°	3552.4	3194.3	2853.0	2550.9	2321.7	2170.5	2092.2	2069.9	2092.2	2164.9	2310.4
50°	3166.4	2797.2	2444.7	2131.4	1885.3	1728.7	1655.9	1627.9	1655.9	1717.5	1862.8
52.5°	2808.3	2427.9	2097.9	1795.8	1532.8	1398.5	1320.2	1303.4	1320.2	1392.9	1510.5
55°	2394.3	2069.9	1745.4	1443.3	1214.0	1079.7	1018.1	1001.4	1018.1	1085.3	1208.4
57.5°	1986.0	1706.2	1421.0	1146.8	951.1	833.5	777.6	755.2	794.3	839.1	984.6
60°	1605.5	1381.8	1141.2	900.7	738.5	632.1	587.4	581.8	593.0	649.0	749.6
62.5°	1258.8	1074.1	883.9	688.1	553.8	509.1	453.1	447.6	458.7	492.2	570.7
65°	906.3	788.8	643.3	503.5	397.2	335.6	313.3	318.9	330.0	352.5	425.2
67.5°	632.1	548.2	447.6	352.5	274.2	246.1	223.8	218.2	223.8	262.9	302.1
70°	425.2	374.8	302.1	268.6	190.3	151.0	156.6	139.9	162.2	162.2	195.7
72.5°	279.7	246.1	201.4	156.6	134.3	106.4	106.4	100.7	111.8	117.4	145.5
75°	145.5	111.8	111.8	78.3	56.0	27.9	50.4	44.8	39.1	44.8	56.0
77.5°	100.7	83.9	78.3	61.6	56.0	44.8	44.8	44.8	44.8	50.4	56.0
80°	61.6	61.6	44.8	39.1	33.5	27.9	33.5	33.5	33.5	33.5	39.1
82.5°	39.1	33.5	33.5	27.9	27.9	22.3	22.3	22.3	22.3	22.3	33.5
85°	33.5	22.3	22.3	16.8	22.3	39.1	16.8	22.3	22.3	22.3	16.8
87.5°	11.2	16.8	16.8	16.8	11.2	5.6	11.2	16.8	16.8	27.9	22.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1	10422.1
2.5°	10438.9	10444.5	10444.5	10438.9	10438.9	10427.7	10450.0	10433.3	10438.9	10461.2	10444.5
5°	10450.0	10455.6	10455.6	10450.0	10450.0	10450.0	10455.6	10455.6	10450.0	10444.5	10455.6
7.5°	10472.4	10466.8	10466.8	10455.6	10455.6	10444.5	10455.6	10438.9	10450.0	10438.9	10455.6
10°	10444.5	10450.0	10444.5	10438.9	10438.9	10433.3	10433.3	10416.5	10422.1	10405.2	10416.5
12.5°	10427.7	10422.1	10422.1	10410.8	10399.8	10388.5	10382.9	10366.1	10366.1	10326.9	10343.8
15°	10382.9	10388.5	10371.7	10349.4	10338.2	10310.2	10299.0	10276.6	10254.3	10226.3	10231.9
17.5°	10343.8	10326.9	10304.6	10282.2	10237.4	10215.1	10192.7	10159.1	10147.9	10114.4	10103.3
20°	10226.3	10215.1	10187.2	10147.9	10120.0	10069.6	10047.3	10013.7	9985.7	9952.2	9935.3
22.5°	10075.2	10064.0	10030.5	9991.3	9946.5	9924.2	9901.8	9840.3	9812.3	9778.7	9773.1
25°	9885.1	9868.2	9834.7	9789.9	9767.5	9706.0	9683.6	9638.8	9627.7	9594.1	9588.6
27.5°	9594.1	9571.8	9532.6	9476.6	9437.5	9398.3	9376.0	9342.3	9331.3	9297.6	9292.1
30°	9157.8	9129.8	9051.5	9029.2	8962.0	8922.8	8922.8	8878.0	8883.7	8861.3	8861.3
32.5°	8469.7	8425.0	8363.4	8318.6	8273.8	8251.5	8251.5	8234.7	8245.9	8245.9	8257.1
35°	7557.8	7496.3	7462.7	7434.8	7434.8	7457.1	7524.3	7541.1	7574.6	7602.6	7625.0
37.5°	6388.6	6383.1	6422.2	6455.8	6539.7	6634.8	6752.3	6853.0	6948.0	7015.2	7082.3
40°	5124.3	5264.2	5376.0	5532.8	5661.3	5846.0	6058.5	6232.0	6394.2	6511.8	6634.8
42.5°	3999.8	4178.9	4413.9	4643.2	4872.6	5124.3	5404.1	5644.6	5857.2	6019.4	6148.1
45°	3116.0	3362.1	3647.5	3938.4	4234.9	4548.2	4839.1	5085.2	5309.0	5476.8	5605.5
47.5°	2511.8	2780.4	3104.8	3423.7	3759.3	4089.4	4413.9	4626.5	4811.0	4945.3	5062.9
50°	2075.4	2360.8	2702.1	3065.6	3401.3	3731.4	4011.1	4218.0	4369.1	4486.6	4559.3
52.5°	1734.2	2036.3	2400.0	2763.5	3099.2	3401.3	3653.1	3809.7	3932.8	4016.7	4083.7
55°	1432.1	1723.1	2064.3	2405.6	2735.6	3020.9	3227.8	3345.4	3440.4	3490.8	3529.9
57.5°	1169.2	1437.7	1751.0	2064.3	2349.6	2584.6	2746.8	2864.3	2909.0	2948.2	2942.6
60°	917.5	1169.2	1454.5	1723.1	1969.2	2159.3	2276.9	2344.0	2377.5	2394.3	2383.1
62.5°	721.6	951.1	1169.2	1404.1	1583.2	1745.4	1857.4	1857.4	1874.1	1879.7	1896.5
65°	537.0	710.4	900.7	1074.1	1219.5	1325.8	1387.4	1404.1	1426.6	1421.0	1409.7
67.5°	397.2	525.9	665.7	794.3	895.1	962.1	1006.9	1046.2	1040.6	1029.4	1023.7
70°	274.2	358.1	481.1	559.4	632.1	699.3	710.4	716.0	721.6	727.3	716.0
72.5°	190.3	251.7	318.9	386.0	430.8	458.7	486.8	492.2	492.2	492.2	486.8
75°	95.1	128.7	190.3	218.2	257.3	268.6	290.9	290.9	307.7	285.3	279.7
77.5°	83.9	100.7	134.3	156.6	173.4	190.3	195.7	212.6	207.0	195.7	201.4
80°	50.4	61.6	83.9	95.1	117.4	123.1	128.7	134.3	128.7	134.3	134.3
82.5°	39.1	44.8	56.0	56.0	72.7	72.7	78.3	78.3	83.9	83.9	83.9
85°	22.3	39.1	33.5	67.1	44.8	44.8	56.0	67.1	56.0	56.0	67.1
87.5°	22.3	22.3	16.8	22.3	22.3	22.3	27.9	33.5	33.5	39.1	33.5
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: P249387

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10422.1	10422.1	10422.1	10422.1
2.5°	10438.9	10450.0	10433.3	10427.7
5°	10455.6	10455.6	10444.5	10444.5
7.5°	10455.6	10455.6	10438.9	10427.7
10°	10410.8	10410.8	10394.1	10382.9
12.5°	10326.9	10326.9	10321.3	10304.6
15°	10220.7	10220.7	10198.3	10181.6
17.5°	10075.2	10086.4	10058.5	10058.5
20°	9918.6	9913.0	9890.7	9879.5
22.5°	9756.4	9745.2	9739.6	9706.0
25°	9583.0	9571.8	9554.9	9538.2
27.5°	9286.5	9280.9	9264.0	9241.7
30°	8833.3	8827.7	8805.4	8805.4
32.5°	8245.9	8240.3	8218.0	8223.6
35°	7636.1	7658.6	7647.3	7625.0
37.5°	7127.0	7143.9	7155.1	7143.9
40°	6701.9	6752.3	6757.9	6769.1
42.5°	6248.8	6315.9	6338.3	6349.4
45°	5706.1	5767.7	5818.0	5806.8
47.5°	5152.2	5197.0	5241.8	5208.2
50°	4620.9	4648.8	4665.6	4665.6
52.5°	4117.4	4117.4	4111.8	4117.4
55°	3541.1	3541.1	3518.8	3529.9
57.5°	2936.9	2948.2	2931.3	2903.4
60°	2377.5	2349.6	2338.4	2321.7
62.5°	1851.7	1851.7	1812.6	1862.8
65°	1387.4	1370.6	1353.8	1348.2
67.5°	1006.9	1001.4	984.6	979.0
70°	710.4	688.1	682.5	671.3
72.5°	475.5	475.5	464.3	464.3
75°	290.9	262.9	257.3	262.9
77.5°	201.4	195.7	195.7	190.3
80°	134.3	128.7	139.9	123.1
82.5°	83.9	89.5	83.9	89.5
85°	56.0	67.1	61.6	61.6
87.5°	33.5	33.5	33.5	33.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)