

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: P249108

Luminaire Tested: **LD8B200D010 ER8B200835 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249108
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 ER8B200835 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21913.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

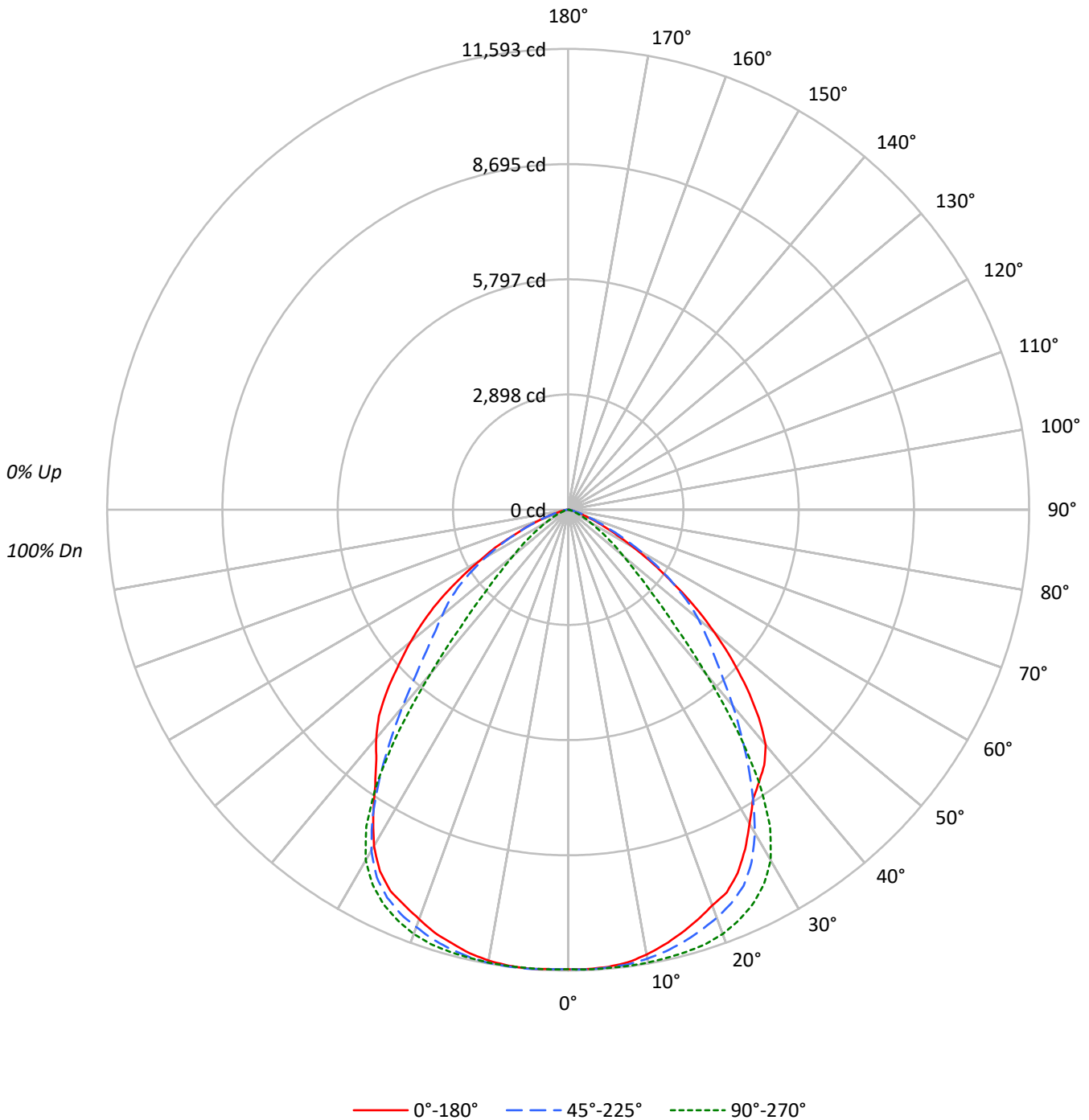
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	356520	356520	356520
5°	357306	358269	358653
10°	355802	362217	360661
15°	351861	367513	360580
20°	347636	372680	359649
25°	343123	373108	360016
30°	324612	362619	347813
35°	314920	315150	318425
40°	311018	216836	302279
45°	277132	130178	280921
50°	230437	86639	248298
55°	172827	59724	210525
60°	117116	39804	158838
65°	70645	25815	109126
70°	39165	13993	67142
75°	17752	5921	34754
80°	15432	6606	24240
85°	17584	8774	24165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1103.4	5.0
10°-20°	3204.4	14.6
20°-30°	4863.7	22.2
30°-40°	5108.4	23.3
40°-50°	3829.9	17.5
50°-60°	2457.4	11.2
60°-70°	1051.2	4.8
70°-80°	248.4	1.1
80°-90°	46.2	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°	9171.6	41.9
0°-40°	14279.9	65.2
0°-60°	20567.2	93.9
0°-90°	21913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21913.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11562	11562	11562	11562	11562	
5°	11543	11562	11574	11593	11587	###
15°	11022	11252	11512	11438	11295	3109
25°	10085	10438	10966	10767	10581	4607
35°	8366	7900	8372	8272	8459	5250
45°	6355	5194	2985	5046	6442	4867
55°	3215	3215	1111	3351	3916	2916
65°	968	1142	354	1471	1496	1034
75°	149	174	50	298	292	217
85°	50	31	25	50	68	52
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°	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7
2.5°	11568.0	11580.4	11574.2	11574.2	11568.0	11574.2	11574.2	11586.6	11586.6	11574.2	11568.0
5°	11543.1	11555.5	11555.5	11543.1	11543.1	11574.2	11555.5	11568.0	11568.0	11561.7	11561.7
7.5°	11487.3	11487.3	11512.1	11493.5	11493.5	11512.1	11505.9	11518.3	11530.8	11537.0	11537.0
10°	11363.1	11375.6	11381.8	11381.8	11388.0	11406.5	11419.0	11443.9	11456.2	11468.6	11474.9
12.5°	11208.1	11226.6	11232.8	11226.6	11245.3	11270.0	11301.2	11332.1	11350.8	11375.6	11394.2
15°	11021.8	11021.8	11034.2	11052.9	11065.3	11102.5	11133.5	11170.7	11220.4	11251.5	11282.5
17.5°	10817.1	10829.5	10848.0	10848.0	10872.9	10934.9	10953.6	11009.4	11065.3	11096.3	11158.4
20°	10593.7	10606.0	10624.7	10637.1	10668.1	10717.7	10754.9	10804.6	10866.7	10922.6	10984.5
22.5°	10419.8	10395.1	10407.4	10419.8	10450.9	10494.4	10537.8	10599.8	10661.9	10717.7	10779.8
25°	10084.7	10090.9	10109.6	10121.9	10159.2	10196.4	10246.1	10320.5	10376.4	10438.5	10506.7
27.5°	9631.7	9637.9	9668.9	9668.9	9699.9	9762.0	9793.0	9855.1	9929.6	9991.6	10072.4
30°	9116.6	9128.9	9128.9	9153.8	9172.4	9203.5	9234.5	9296.6	9333.8	9389.7	9501.4
32.5°	8645.0	8657.3	8651.1	8645.0	8626.3	8620.1	8613.9	8626.3	8638.8	8657.3	8700.7
35°	8365.7	8334.6	8309.9	8266.4	8216.8	8154.7	8098.8	8024.4	7956.0	7900.2	7838.2
37.5°	8098.8	8092.6	8055.4	7993.3	7893.9	7782.3	7652.0	7490.6	7329.2	7155.5	6988.0
40°	7726.4	7707.8	7676.8	7589.9	7478.2	7341.7	7167.9	6969.3	6708.6	6441.8	6168.8
42.5°	7093.4	7099.6	7062.4	6994.1	6888.7	6758.3	6578.3	6361.2	6081.9	5765.3	5411.6
45°	6354.9	6354.9	6342.5	6286.6	6212.2	6106.7	5970.1	5790.2	5517.2	5194.3	4815.8
47.5°	5585.4	5591.6	5572.9	5560.6	5529.5	5461.3	5362.0	5225.5	5033.1	4722.7	4344.1
50°	4803.5	4803.5	4834.5	4828.2	4828.2	4803.5	4760.0	4679.3	4511.8	4263.5	3909.8
52.5°	4021.5	4033.9	4052.6	4077.3	4108.3	4158.0	4108.3	4071.1	3965.6	3773.2	3469.2
55°	3214.7	3227.1	3258.1	3301.5	3338.9	3388.5	3400.8	3400.8	3345.0	3214.7	2985.1
57.5°	2525.9	2507.2	2532.1	2569.3	2619.0	2668.6	2705.8	2749.2	2743.0	2656.2	2470.0
60°	1899.0	1905.3	1923.8	1961.1	1998.3	2041.8	2091.4	2128.6	2147.3	2103.9	1985.9
62.5°	1384.0	1384.0	1408.7	1445.9	1464.6	1526.7	1557.7	1576.4	1594.9	1588.7	1514.3
65°	968.2	980.5	992.9	1011.6	1030.2	1067.4	1086.0	1123.2	1135.7	1141.9	1086.0
67.5°	682.7	664.0	676.5	688.8	707.5	732.4	769.6	769.6	788.1	788.1	750.9
70°	434.4	434.4	440.7	459.2	471.6	477.9	490.3	502.6	521.3	515.1	515.1
72.5°	291.7	285.5	291.7	297.9	304.2	322.7	322.7	328.9	341.4	347.6	322.7
75°	149.0	155.2	167.5	161.4	179.9	167.5	173.7	192.4	186.2	173.7	173.7
77.5°	124.1	124.1	124.1	118.0	130.3	130.3	124.1	136.5	130.3	130.3	124.1
80°	86.9	93.1	86.9	80.6	86.9	80.6	80.6	80.6	80.6	80.6	74.4
82.5°	68.3	55.9	62.1	55.9	62.1	62.1	55.9	49.7	49.7	55.9	49.7
85°	49.7	37.2	43.4	43.4	37.2	37.2	37.2	37.2	37.2	31.0	31.0
87.5°	31.0	18.7	18.7	18.7	24.8	24.8	24.8	18.7	24.8	24.8	12.4
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°	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7
2.5°	11580.4	11574.2	11586.6	11580.4	11580.4	11574.2	11580.4	11574.2	11586.6	11561.7	11568.0
5°	11580.4	11568.0	11574.2	11580.4	11586.6	11574.2	11574.2	11574.2	11586.6	11574.2	11580.4
7.5°	11555.5	11549.3	11568.0	11580.4	11574.2	11568.0	11580.4	11574.2	11586.6	11580.4	11592.7
10°	11505.9	11512.1	11524.5	11543.1	11549.3	11555.5	11568.0	11568.0	11586.6	11561.7	11574.2
12.5°	11431.4	11456.2	11487.3	11499.6	11524.5	11524.5	11537.0	11543.1	11555.5	11549.3	11568.0
15°	11338.4	11369.3	11406.5	11437.7	11468.6	11487.3	11505.9	11512.1	11530.8	11512.1	11518.3
17.5°	11226.6	11263.8	11319.7	11356.9	11406.5	11425.2	11450.0	11462.4	11481.1	11468.6	11474.9
20°	11071.4	11115.0	11176.9	11232.8	11263.8	11307.2	11338.4	11356.9	11369.3	11356.9	11363.1
22.5°	10854.3	10916.4	10997.0	11040.4	11102.5	11139.7	11146.0	11189.4	11220.4	11189.4	11201.8
25°	10599.8	10661.9	10724.0	10817.1	10872.9	10916.4	10959.8	10966.0	10997.0	10990.8	10984.5
27.5°	10177.8	10258.5	10363.9	10438.5	10512.9	10581.2	10630.9	10643.2	10674.3	10661.9	10668.1
30°	9600.6	9687.6	9786.9	9904.7	10010.3	10078.5	10140.6	10184.0	10215.0	10196.4	10190.2
32.5°	8781.5	8868.4	8973.9	9091.7	9215.9	9315.1	9389.7	9445.5	9482.7	9470.3	9439.3
35°	7844.4	7869.2	7937.5	8030.6	8136.0	8241.5	8309.9	8371.8	8415.2	8427.7	8427.7
37.5°	6882.5	6801.8	6752.2	6752.2	6814.1	6857.6	6919.7	6956.9	7025.2	7050.0	7068.6
40°	5951.5	5765.3	5591.6	5461.3	5374.4	5368.2	5368.2	5386.7	5448.8	5529.5	5604.0
42.5°	5119.9	4822.0	4555.2	4313.2	4139.4	4040.1	3996.7	4002.9	4052.6	4127.0	4251.1
45°	4455.9	4083.6	3748.4	3456.7	3220.9	3065.7	2991.3	2985.1	3022.3	3109.1	3245.8
47.5°	3940.8	3543.6	3165.0	2829.9	2575.5	2407.9	2321.0	2296.3	2321.0	2401.7	2563.1
50°	3512.6	3103.1	2712.0	2364.5	2091.4	1917.7	1836.9	1806.0	1836.9	1905.3	2066.5
52.5°	3115.4	2693.4	2327.3	1992.1	1700.4	1551.5	1464.6	1445.9	1464.6	1545.2	1675.7
55°	2656.2	2296.3	1936.2	1601.1	1346.8	1197.8	1129.5	1110.9	1129.5	1204.0	1340.5
57.5°	2203.2	1892.8	1576.4	1272.2	1055.1	924.6	862.7	837.8	881.2	930.8	1092.3
60°	1781.1	1532.9	1266.0	999.2	819.2	701.2	651.6	645.4	657.8	719.9	831.5
62.5°	1396.4	1191.6	980.5	763.4	614.4	564.7	502.6	496.5	508.9	546.1	633.1
65°	1005.4	875.1	713.7	558.5	440.7	372.3	347.6	353.8	366.1	391.0	471.6
67.5°	701.2	608.2	496.5	391.0	304.2	273.0	248.3	242.0	248.3	291.7	335.1
70°	471.6	415.8	335.1	297.9	211.1	167.5	173.7	155.2	179.9	179.9	217.1
72.5°	310.2	273.0	223.4	173.7	149.0	118.0	118.0	111.8	124.1	130.3	161.4
75°	161.4	124.1	124.1	86.9	62.1	31.0	55.9	49.7	43.4	49.7	62.1
77.5°	111.8	93.1	86.9	68.3	62.1	49.7	49.7	49.7	49.7	55.9	62.1
80°	68.3	68.3	49.7	43.4	37.2	31.0	37.2	37.2	37.2	37.2	43.4
82.5°	43.4	37.2	37.2	31.0	31.0	24.8	24.8	24.8	24.8	24.8	37.2
85°	37.2	24.8	24.8	18.7	24.8	43.4	18.7	24.8	24.8	24.8	18.7
87.5°	12.4	18.7	18.7	18.7	12.4	6.2	12.4	18.7	18.7	31.0	24.8
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°	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7	11561.7
2.5°	11580.4	11586.6	11586.6	11580.4	11580.4	11568.0	11592.7	11574.2	11580.4	11605.2	11586.6
5°	11592.7	11598.9	11598.9	11592.7	11592.7	11592.7	11598.9	11598.9	11592.7	11586.6	11598.9
7.5°	11617.6	11611.4	11611.4	11598.9	11598.9	11586.6	11598.9	11580.4	11592.7	11580.4	11598.9
10°	11586.6	11592.7	11586.6	11580.4	11580.4	11574.2	11574.2	11555.5	11561.7	11543.1	11555.5
12.5°	11568.0	11561.7	11561.7	11549.3	11537.0	11524.5	11518.3	11499.6	11499.6	11456.2	11474.9
15°	11518.3	11524.5	11505.9	11481.1	11468.6	11437.7	11425.2	11400.3	11375.6	11344.6	11350.8
17.5°	11474.9	11456.2	11431.4	11406.5	11356.9	11332.1	11307.2	11270.0	11257.6	11220.4	11208.1
20°	11344.6	11332.1	11301.2	11257.6	11226.6	11170.7	11146.0	11108.8	11077.6	11040.4	11021.8
22.5°	11176.9	11164.5	11127.3	11083.9	11034.2	11009.4	10984.5	10916.4	10885.2	10848.0	10841.8
25°	10966.0	10947.3	10910.1	10860.5	10835.6	10767.4	10742.5	10692.8	10680.5	10643.2	10637.1
27.5°	10643.2	10618.4	10575.0	10512.9	10469.5	10426.0	10401.3	10363.9	10351.6	10314.3	10308.2
30°	10159.2	10128.1	10041.3	10016.5	9941.9	9898.5	9898.5	9848.9	9855.1	9830.3	9830.3
32.5°	9395.9	9346.2	9277.9	9228.2	9178.6	9153.8	9153.8	9135.2	9147.6	9147.6	9160.1
35°	8384.3	8316.1	8278.7	8247.7	8247.7	8272.5	8347.1	8365.7	8402.9	8433.9	8458.8
37.5°	7087.2	7081.1	7124.5	7161.7	7254.8	7360.3	7490.6	7602.4	7707.8	7782.3	7856.7
40°	5684.7	5839.9	5963.9	6137.8	6280.4	6485.2	6721.0	6913.4	7093.4	7223.8	7360.3
42.5°	4437.2	4635.8	4896.6	5150.9	5405.4	5684.7	5995.0	6261.8	6497.7	6677.6	6820.4
45°	3456.7	3729.7	4046.4	4369.0	4697.9	5045.5	5368.2	5641.2	5889.5	6075.7	6218.4
47.5°	2786.5	3084.4	3444.3	3798.1	4170.4	4536.5	4896.6	5132.4	5337.1	5486.0	5616.5
50°	2302.4	2619.0	2997.5	3400.8	3773.2	4139.4	4449.7	4679.3	4846.9	4977.2	5057.8
52.5°	1923.8	2258.9	2662.4	3065.7	3438.0	3773.2	4052.6	4226.3	4362.8	4455.9	4530.3
55°	1588.7	1911.5	2290.1	2668.6	3034.7	3351.2	3580.8	3711.2	3816.6	3872.5	3915.9
57.5°	1297.1	1594.9	1942.5	2290.1	2606.5	2867.2	3047.2	3177.5	3227.1	3270.6	3264.3
60°	1017.8	1297.1	1613.6	1911.5	2184.5	2395.4	2525.9	2600.3	2637.5	2656.2	2643.7
62.5°	800.6	1055.1	1297.1	1557.7	1756.3	1936.2	2060.5	2060.5	2079.0	2085.2	2103.9
65°	595.7	788.1	999.2	1191.6	1352.8	1470.8	1539.2	1557.7	1582.6	1576.4	1563.9
67.5°	440.7	583.4	738.5	881.2	992.9	1067.4	1117.0	1160.6	1154.4	1141.9	1135.7
70°	304.2	397.2	533.8	620.6	701.2	775.8	788.1	794.3	800.6	806.8	794.3
72.5°	211.1	279.3	353.8	428.2	477.9	508.9	540.0	546.1	546.1	546.1	540.0
75°	105.5	142.7	211.1	242.0	285.5	297.9	322.7	322.7	341.4	316.5	310.2
77.5°	93.1	111.8	149.0	173.7	192.4	211.1	217.1	235.8	229.6	217.1	223.4
80°	55.9	68.3	93.1	105.5	130.3	136.5	142.7	149.0	142.7	149.0	149.0
82.5°	43.4	49.7	62.1	62.1	80.6	80.6	86.9	86.9	93.1	93.1	93.1
85°	24.8	43.4	37.2	74.4	49.7	49.7	62.1	74.4	62.1	62.1	74.4
87.5°	24.8	24.8	18.7	24.8	24.8	24.8	31.0	37.2	37.2	43.4	37.2
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: P249108

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11561.7	11561.7	11561.7	11561.7
2.5°	11580.4	11592.7	11574.2	11568.0
5°	11598.9	11598.9	11586.6	11586.6
7.5°	11598.9	11598.9	11580.4	11568.0
10°	11549.3	11549.3	11530.8	11518.3
12.5°	11456.2	11456.2	11450.0	11431.4
15°	11338.4	11338.4	11313.5	11294.9
17.5°	11176.9	11189.4	11158.4	11158.4
20°	11003.2	10997.0	10972.2	10959.8
22.5°	10823.3	10810.8	10804.6	10767.4
25°	10630.9	10618.4	10599.8	10581.2
27.5°	10302.0	10295.8	10277.1	10252.3
30°	9799.2	9793.0	9768.2	9768.2
32.5°	9147.6	9141.4	9116.6	9122.9
35°	8471.1	8496.0	8483.6	8458.8
37.5°	7906.4	7925.1	7937.5	7925.1
40°	7434.7	7490.6	7496.8	7509.3
42.5°	6932.1	7006.5	7031.4	7043.7
45°	6330.0	6398.4	6454.2	6441.8
47.5°	5715.6	5765.3	5815.0	5777.8
50°	5126.2	5157.1	5175.8	5175.8
52.5°	4567.7	4567.7	4561.4	4567.7
55°	3928.4	3928.4	3903.6	3915.9
57.5°	3258.1	3270.6	3251.9	3220.9
60°	2637.5	2606.5	2594.1	2575.5
62.5°	2054.2	2054.2	2010.8	2066.5
65°	1539.2	1520.5	1501.8	1495.6
67.5°	1117.0	1110.9	1092.3	1086.0
70°	788.1	763.4	757.1	744.7
72.5°	527.5	527.5	515.1	515.1
75°	322.7	291.7	285.5	291.7
77.5°	223.4	217.1	217.1	211.1
80°	149.0	142.7	155.2	136.5
82.5°	93.1	99.3	93.1	99.3
85°	62.1	74.4	68.3	68.3
87.5°	37.2	37.2	37.2	37.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)