

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: P248780

Luminaire Tested: **LD8B100D010 ER8B100835 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100835 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10067.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

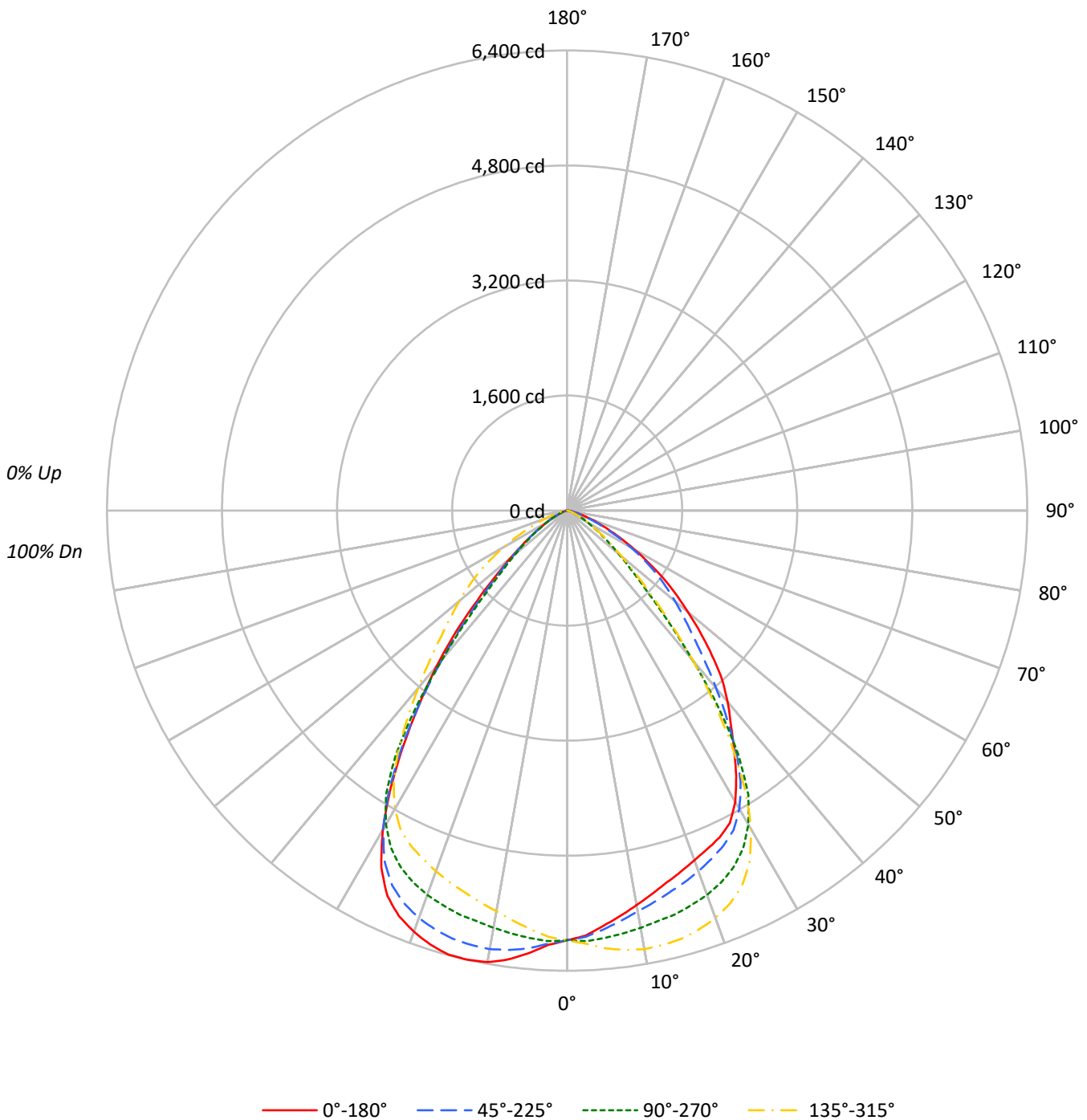
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248780

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248780

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0GPH

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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	184293	184293	184293	184293
5°	179398	184725	191321	184725
10°	174433	184484	199652	184484
15°	170950	185578	204024	185578
20°	169786	186640	204548	186640
25°	170679	186265	201259	186265
30°	166458	179447	182670	179447
35°	152256	156540	148521	156540
40°	139790	108891	113713	108891
45°	124208	66430	76865	66430
50°	105132	44375	49278	44375
55°	87072	30278	32004	30278
60°	66409	20155	20333	20155
65°	47055	12557	11499	12557
70°	33936	8412	7636	8412
75°	21553	4182	3479	4182
80°	15041	3108	2575	3108
85°	13445	0	1026	0



TEST NUMBER: P248780

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.8	5.7
10°-20°	1647.3	16.4
20°-30°	2494.3	24.8
30°-40°	2499.9	24.8
40°-50°	1569.8	15.6
50°-60°	836.6	8.3
60°-70°	344.0	3.4
70°-80°	90.9	0.9
80°-90°	15.4	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°	4710.4	46.8
0°-40°	7210.4	71.6
0°-60°	9616.7	95.5
0°-90°	10067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10067.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5976	5976	5976	5976	5976	
5°	5796	5968	6181	5968	5796	547
15°	5355	5813	6391	5813	5355	1515
25°	5016	5474	5915	5474	5016	2301
35°	4045	4158	3945	4158	4045	2534
45°	2848	1523	1763	1523	2848	2190
55°	1620	563	595	563	1620	1444
65°	645	172	158	172	645	669
75°	181	35	29	35	181	205
85°	38	0	3	0	38	42
90°	0	0	0	0	0	



TEST NUMBER: P248780

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5
2.5°	5915.2	5909.3	5906.4	5912.3	5915.2	5926.9	5924.0	5929.7	5929.7	5932.7	5938.5
5°	5795.6	5792.6	5795.6	5795.6	5807.2	5818.9	5816.0	5824.8	5830.5	5845.2	5850.9
7.5°	5684.7	5684.7	5681.7	5693.3	5699.2	5716.8	5713.8	5728.4	5737.2	5751.7	5772.1
10°	5570.8	5570.8	5573.7	5582.5	5585.5	5611.7	5611.7	5632.1	5643.7	5658.4	5684.7
12.5°	5460.0	5460.0	5477.5	5471.6	5483.3	5503.7	5512.5	5532.9	5550.4	5579.6	5605.9
15°	5354.9	5354.9	5360.7	5375.3	5384.1	5410.4	5424.9	5448.3	5468.7	5497.9	5535.9
17.5°	5264.4	5261.5	5264.4	5282.0	5299.5	5322.8	5334.4	5363.6	5384.1	5422.0	5457.1
20°	5174.0	5179.9	5179.9	5194.4	5206.0	5235.2	5246.9	5279.1	5302.4	5337.3	5378.3
22.5°	5095.2	5092.3	5092.3	5112.7	5121.5	5147.7	5159.3	5188.5	5214.8	5244.0	5282.0
25°	5016.4	5010.5	5022.3	5025.1	5030.9	5060.1	5068.9	5089.3	5115.6	5141.9	5179.9
27.5°	4899.6	4893.9	4896.7	4908.4	4917.2	4940.5	4946.3	4966.8	4987.2	5010.5	5042.7
30°	4674.9	4669.1	4666.2	4686.7	4695.4	4712.8	4721.6	4756.7	4762.5	4788.8	4812.1
32.5°	4377.2	4374.4	4380.2	4397.7	4406.4	4429.9	4441.5	4461.9	4476.5	4491.1	4514.4
35°	4044.6	4038.8	4044.6	4062.2	4062.2	4082.6	4091.4	4100.0	4097.1	4100.0	4094.3
37.5°	3735.3	3732.3	3735.3	3744.0	3735.3	3744.0	3735.3	3717.8	3685.7	3650.7	3615.6
40°	3472.7	3475.5	3458.1	3469.8	3437.6	3431.8	3399.7	3355.9	3291.8	3221.7	3122.5
42.5°	3192.5	3183.8	3172.1	3177.9	3151.7	3131.2	3078.7	3023.3	2941.5	2824.9	2705.1
45°	2848.2	2845.3	2839.4	2836.5	2819.0	2798.6	2754.7	2690.6	2600.1	2480.5	2337.4
47.5°	2512.6	2503.8	2503.8	2506.7	2486.3	2483.4	2448.3	2392.9	2314.1	2197.4	2048.6
50°	2191.5	2188.6	2194.5	2206.2	2191.5	2185.7	2162.4	2124.5	2054.5	1955.2	1815.1
52.5°	1902.6	1899.7	1905.6	1920.2	1914.3	1920.2	1896.9	1867.7	1820.9	1724.6	1602.1
55°	1619.6	1619.6	1619.6	1637.1	1637.1	1637.1	1625.4	1608.0	1564.1	1494.1	1380.4
57.5°	1324.9	1327.8	1345.3	1348.2	1345.3	1351.2	1348.2	1330.6	1301.6	1252.0	1164.4
60°	1076.8	1076.8	1085.6	1094.4	1091.4	1094.4	1094.4	1085.6	1056.4	1015.6	945.5
62.5°	852.1	860.9	855.0	860.9	872.5	860.9	855.0	849.2	828.8	802.5	744.1
65°	644.9	650.8	650.8	653.7	647.8	650.8	639.1	630.4	618.7	589.5	551.6
67.5°	490.3	490.3	490.3	490.3	487.3	484.4	481.5	472.8	452.4	440.7	399.7
70°	376.4	358.9	358.9	358.9	358.9	361.9	353.1	341.5	335.6	315.2	286.0
72.5°	250.9	256.8	250.9	250.9	245.2	248.0	236.4	230.5	224.7	213.1	195.5
75°	180.9	166.4	172.1	175.1	166.4	172.1	160.5	148.8	148.8	140.1	131.3
77.5°	116.8	113.9	116.8	119.6	116.8	113.9	108.0	102.1	102.1	99.2	90.4
80°	84.7	81.7	81.7	81.7	78.8	81.7	75.9	75.9	70.0	67.1	61.3
82.5°	55.5	55.5	52.5	55.5	52.5	55.5	46.7	46.7	46.7	43.7	38.0
85°	38.0	32.1	32.1	35.1	29.2	35.1	32.1	29.2	26.3	26.3	23.3
87.5°	17.5	20.4	17.5	20.4	17.5	17.5	20.4	17.5	17.5	11.7	11.7
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: P248780

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5
2.5°	5947.3	5950.2	5950.2	5961.9	5967.7	5970.6	5970.6	5994.0	5985.2	5991.1	5996.9
5°	5862.7	5880.1	5886.0	5886.0	5918.1	5929.7	5941.4	5967.7	5970.6	5988.1	6008.5
7.5°	5780.9	5801.3	5813.1	5839.3	5859.7	5880.1	5915.2	5932.7	5950.2	5973.6	5999.8
10°	5702.1	5725.5	5748.8	5769.3	5801.3	5827.6	5850.9	5891.8	5912.3	5944.4	5979.3
12.5°	5626.3	5658.4	5678.8	5713.8	5748.8	5772.1	5807.2	5845.2	5877.2	5909.3	5950.2
15°	5559.2	5597.1	5620.4	5658.4	5696.4	5728.4	5766.4	5813.1	5836.4	5874.4	5912.3
17.5°	5486.1	5527.1	5556.3	5591.2	5638.0	5672.9	5705.1	5751.7	5780.9	5821.8	5865.6
20°	5410.4	5451.2	5486.1	5521.2	5567.9	5602.9	5640.9	5687.6	5719.7	5760.5	5795.6
22.5°	5319.9	5357.9	5395.7	5436.5	5483.3	5512.5	5556.3	5597.1	5632.1	5670.0	5705.1
25°	5203.2	5249.9	5279.1	5316.9	5354.9	5386.9	5433.7	5474.5	5503.7	5538.8	5570.8
27.5°	5066.0	5101.1	5124.4	5156.4	5194.4	5223.6	5258.5	5299.5	5328.7	5360.7	5384.1
30°	4832.5	4864.7	4885.1	4908.4	4946.3	4972.7	5001.8	5039.7	5060.1	5083.5	5103.9
32.5°	4526.1	4552.4	4564.0	4581.6	4607.9	4634.1	4657.5	4689.5	4698.3	4712.8	4712.8
35°	4082.6	4088.4	4085.5	4091.4	4103.0	4117.6	4138.0	4158.4	4170.0	4170.0	4161.4
37.5°	3563.1	3528.1	3490.2	3461.0	3452.2	3446.3	3458.1	3466.8	3478.5	3484.3	3469.8
40°	3023.3	2944.5	2859.8	2783.9	2731.4	2708.1	2699.4	2705.1	2705.1	2725.5	2725.5
42.5°	2559.3	2436.7	2311.3	2197.4	2121.5	2063.2	2036.9	2036.9	2039.8	2054.5	2063.2
45°	2174.1	2019.4	1873.4	1748.0	1642.9	1567.0	1532.1	1523.3	1520.4	1526.2	1546.6
47.5°	1879.3	1718.9	1567.0	1412.4	1301.6	1225.7	1193.6	1181.8	1170.2	1181.8	1184.8
50°	1648.8	1482.5	1322.0	1167.3	1050.5	983.4	942.5	925.0	922.1	922.1	928.0
52.5°	1438.6	1284.0	1123.6	966.0	843.3	779.2	741.2	732.5	720.8	732.5	732.5
55°	1240.2	1085.6	928.0	779.2	677.0	609.9	574.9	563.2	557.3	566.1	566.1
57.5°	1024.3	892.9	747.1	612.8	510.7	464.0	437.7	423.2	420.2	426.0	420.2
60°	840.4	729.6	604.1	481.5	402.7	353.1	332.7	326.8	320.9	326.8	326.8
62.5°	665.3	572.0	469.8	376.4	309.3	274.3	250.9	250.9	248.0	248.0	250.9
65°	493.2	420.2	347.3	268.5	216.0	189.7	172.1	172.1	169.2	172.1	169.2
67.5°	358.9	309.3	250.9	195.5	154.7	140.1	128.4	119.6	125.5	119.6	116.8
70°	262.7	221.7	180.9	148.8	119.6	105.1	96.3	93.3	87.6	87.6	87.6
72.5°	175.1	148.8	122.5	96.3	78.8	64.1	61.3	55.5	49.6	52.5	58.4
75°	116.8	99.2	87.6	70.0	52.5	52.5	35.1	35.1	29.2	35.1	26.3
77.5°	81.7	67.1	52.5	43.7	35.1	32.1	23.3	23.3	20.4	20.4	20.4
80°	58.4	49.6	38.0	32.1	23.3	23.3	20.4	17.5	14.5	14.5	17.5
82.5°	35.1	26.3	26.3	23.3	14.5	11.7	8.8	11.7	5.9	5.9	5.9
85°	20.4	17.5	14.5	8.8	5.9	5.9	2.9	0.0	2.9	2.9	0.0
87.5°	11.7	5.9	5.9	2.9	0.0	2.9	2.9	0.0	0.0	0.0	5.9
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: P248780

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5
2.5°	6011.5	6008.5	6014.4	6014.4	6032.0	6028.9	6037.7	6037.7	6032.0	6034.8	6046.5
5°	6032.0	6040.7	6058.1	6072.8	6099.0	6110.7	6125.3	6139.9	6142.8	6151.6	6160.4
7.5°	6032.0	6061.1	6081.6	6107.7	6142.8	6163.2	6195.3	6221.6	6233.3	6247.8	6265.3
10°	6020.2	6049.4	6087.3	6116.5	6160.4	6192.4	6224.5	6265.3	6282.9	6306.2	6329.6
12.5°	5996.9	6028.9	6069.8	6107.7	6157.4	6186.5	6227.4	6265.3	6291.6	6323.7	6350.0
15°	5961.9	5999.8	6037.7	6075.7	6128.2	6163.2	6201.2	6244.9	6271.2	6306.2	6329.6
17.5°	5906.4	5947.3	5982.3	6017.3	6066.9	6107.7	6142.8	6183.7	6210.0	6239.2	6271.2
20°	5839.3	5877.2	5915.2	5944.4	5994.0	6028.9	6066.9	6104.9	6125.3	6131.2	6180.8
22.5°	5754.7	5780.9	5810.1	5856.8	5886.0	5918.1	5953.2	5988.1	6008.5	6040.7	6058.1
25°	5614.6	5640.9	5672.9	5693.3	5728.4	5754.7	5789.7	5827.6	5839.3	5862.7	5880.1
27.5°	5419.1	5433.7	5448.3	5465.7	5486.1	5500.8	5521.2	5538.8	5550.4	5562.1	5573.7
30°	5109.7	5109.7	5109.7	5098.1	5106.8	5115.6	5118.5	5115.6	5115.6	5112.7	5112.7
32.5°	4701.2	4677.9	4651.6	4628.3	4619.5	4607.9	4602.0	4593.2	4578.7	4569.9	4572.8
35°	4149.6	4097.1	4065.1	4035.9	4012.6	3995.0	3986.3	3977.5	3974.6	3963.0	3951.2
37.5°	3461.0	3423.0	3399.7	3382.2	3361.8	3344.3	3347.1	3350.1	3358.8	3353.0	3355.9
40°	2731.4	2722.7	2731.4	2711.0	2705.1	2711.0	2725.5	2746.1	2757.7	2769.4	2789.8
42.5°	2077.8	2092.3	2112.8	2112.8	2121.5	2133.2	2150.7	2182.9	2200.3	2220.7	2244.1
45°	1564.1	1581.7	1608.0	1616.6	1622.5	1637.1	1657.6	1683.8	1695.4	1713.0	1733.4
47.5°	1205.2	1216.9	1231.4	1246.1	1260.6	1266.5	1286.9	1286.9	1301.6	1313.2	1319.0
50°	939.7	951.3	963.0	971.7	977.6	986.4	992.2	1000.9	1003.8	1009.7	1012.6
52.5°	735.3	750.0	750.0	755.8	764.5	773.3	770.4	773.3	776.2	776.2	785.0
55°	574.9	574.9	583.6	583.6	589.5	586.5	589.5	589.5	589.5	589.5	592.4
57.5°	428.9	431.9	440.7	434.8	431.9	437.7	431.9	437.7	434.8	440.7	431.9
60°	329.7	329.7	332.7	332.7	335.6	335.6	335.6	332.7	332.7	329.7	329.7
62.5°	248.0	250.9	253.9	250.9	250.9	250.9	248.0	248.0	245.2	242.2	242.2
65°	166.4	163.5	169.2	163.5	166.4	166.4	163.5	166.4	157.6	160.5	157.6
67.5°	119.6	116.8	113.9	116.8	113.9	110.9	110.9	113.9	116.8	108.0	108.0
70°	78.8	81.7	78.8	81.7	84.7	84.7	81.7	78.8	81.7	75.9	78.8
72.5°	49.6	49.6	49.6	49.6	49.6	52.5	52.5	52.5	46.7	46.7	43.7
75°	23.3	32.1	26.3	23.3	32.1	32.1	29.2	29.2	26.3	26.3	26.3
77.5°	23.3	17.5	17.5	17.5	17.5	17.5	17.5	17.5	14.5	17.5	14.5
80°	11.7	11.7	11.7	8.8	11.7	11.7	14.5	11.7	11.7	8.8	14.5
82.5°	5.9	5.9	5.9	0.0	2.9	5.9	5.9	2.9	5.9	5.9	2.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P248780

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5
2.5°	6043.6	6040.7	6043.6	6046.5	6043.6	6040.7	6043.6	6046.5	6034.8	6032.0	6037.7
5°	6172.0	6172.0	6177.8	6180.8	6177.8	6172.0	6172.0	6160.4	6151.6	6142.8	6139.9
7.5°	6282.9	6288.8	6294.5	6297.4	6294.5	6288.8	6282.9	6265.3	6247.8	6233.3	6221.6
10°	6350.0	6358.8	6370.4	6376.2	6370.4	6358.8	6350.0	6329.6	6306.2	6282.9	6265.3
12.5°	6379.2	6388.0	6402.5	6399.6	6402.5	6388.0	6379.2	6350.0	6323.7	6291.6	6265.3
15°	6358.8	6370.4	6385.0	6390.9	6385.0	6370.4	6358.8	6329.6	6306.2	6271.2	6244.9
17.5°	6294.5	6312.1	6320.8	6329.6	6320.8	6312.1	6294.5	6271.2	6239.2	6210.0	6183.7
20°	6207.0	6218.7	6230.4	6233.3	6230.4	6218.7	6207.0	6180.8	6131.2	6125.3	6104.9
22.5°	6081.6	6090.3	6116.5	6107.7	6116.5	6090.3	6081.6	6058.1	6040.7	6008.5	5988.1
25°	5900.5	5909.3	5912.3	5915.2	5912.3	5909.3	5900.5	5880.1	5862.7	5839.3	5827.6
27.5°	5588.4	5588.4	5594.1	5597.1	5594.1	5588.4	5588.4	5573.7	5562.1	5550.4	5538.8
30°	5115.6	5115.6	5115.6	5130.2	5115.6	5115.6	5115.6	5112.7	5112.7	5115.6	5115.6
32.5°	4569.9	4564.0	4558.3	4564.0	4558.3	4564.0	4569.9	4572.8	4569.9	4578.7	4593.2
35°	3951.2	3948.3	3957.1	3945.4	3957.1	3948.3	3951.2	3951.2	3963.0	3974.6	3977.5
37.5°	3358.8	3353.0	3364.7	3353.0	3364.7	3353.0	3358.8	3355.9	3353.0	3358.8	3350.1
40°	2795.7	2801.5	2801.5	2824.9	2801.5	2801.5	2795.7	2789.8	2769.4	2757.7	2746.1
42.5°	2255.8	2273.3	2267.4	2285.0	2267.4	2273.3	2255.8	2244.1	2220.7	2200.3	2182.9
45°	1745.0	1756.8	1756.8	1762.6	1756.8	1756.8	1745.0	1733.4	1713.0	1695.4	1683.8
47.5°	1339.4	1339.4	1339.4	1342.4	1339.4	1339.4	1339.4	1319.0	1313.2	1301.6	1286.9
50°	1018.5	1021.3	1024.3	1027.2	1024.3	1021.3	1018.5	1012.6	1009.7	1003.8	1000.9
52.5°	782.1	785.0	779.2	785.0	779.2	785.0	782.1	785.0	776.2	776.2	773.3
55°	592.4	589.5	592.4	595.3	592.4	589.5	592.4	592.4	589.5	589.5	589.5
57.5°	434.8	428.9	428.9	428.9	428.9	428.9	434.8	431.9	440.7	434.8	437.7
60°	324.0	326.8	326.8	329.7	326.8	326.8	324.0	329.7	329.7	332.7	332.7
62.5°	239.3	248.0	242.2	248.0	242.2	248.0	239.3	242.2	242.2	245.2	248.0
65°	154.7	154.7	154.7	157.6	154.7	154.7	154.7	157.6	160.5	157.6	166.4
67.5°	105.1	108.0	113.9	110.9	113.9	108.0	105.1	108.0	108.0	116.8	113.9
70°	84.7	75.9	75.9	84.7	75.9	75.9	84.7	78.8	75.9	81.7	78.8
72.5°	49.6	43.7	49.6	49.6	49.6	43.7	49.6	43.7	46.7	46.7	52.5
75°	26.3	23.3	20.4	29.2	20.4	23.3	26.3	26.3	26.3	26.3	29.2
77.5°	17.5	14.5	20.4	20.4	20.4	14.5	17.5	14.5	17.5	14.5	17.5
80°	8.8	11.7	8.8	14.5	8.8	11.7	8.8	14.5	8.8	11.7	11.7
82.5°	2.9	5.9	5.9	5.9	5.9	5.9	2.9	2.9	5.9	5.9	2.9
85°	0.0	5.9	2.9	2.9	2.9	5.9	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.0	0.0	2.9	0.0	0.0	2.9	0.0	0.0	0.0	0.0
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: P248780

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5
2.5°	6037.7	6028.9	6032.0	6014.4	6014.4	6008.5	6011.5	5996.9	5991.1	5985.2	5994.0
5°	6125.3	6110.7	6099.0	6072.8	6058.1	6040.7	6032.0	6008.5	5988.1	5970.6	5967.7
7.5°	6195.3	6163.2	6142.8	6107.7	6081.6	6061.1	6032.0	5999.8	5973.6	5950.2	5932.7
10°	6224.5	6192.4	6160.4	6116.5	6087.3	6049.4	6020.2	5979.3	5944.4	5912.3	5891.8
12.5°	6227.4	6186.5	6157.4	6107.7	6069.8	6028.9	5996.9	5950.2	5909.3	5877.2	5845.2
15°	6201.2	6163.2	6128.2	6075.7	6037.7	5999.8	5961.9	5912.3	5874.4	5836.4	5813.1
17.5°	6142.8	6107.7	6066.9	6017.3	5982.3	5947.3	5906.4	5865.6	5821.8	5780.9	5751.7
20°	6066.9	6028.9	5994.0	5944.4	5915.2	5877.2	5839.3	5795.6	5760.5	5719.7	5687.6
22.5°	5953.2	5918.1	5886.0	5856.8	5810.1	5780.9	5754.7	5705.1	5670.0	5632.1	5597.1
25°	5789.7	5754.7	5728.4	5693.3	5672.9	5640.9	5614.6	5570.8	5538.8	5503.7	5474.5
27.5°	5521.2	5500.8	5486.1	5465.7	5448.3	5433.7	5419.1	5384.1	5360.7	5328.7	5299.5
30°	5118.5	5115.6	5106.8	5098.1	5109.7	5109.7	5109.7	5103.9	5083.5	5060.1	5039.7
32.5°	4602.0	4607.9	4619.5	4628.3	4651.6	4677.9	4701.2	4712.8	4712.8	4698.3	4689.5
35°	3986.3	3995.0	4012.6	4035.9	4065.1	4097.1	4149.6	4161.4	4170.0	4170.0	4158.4
37.5°	3347.1	3344.3	3361.8	3382.2	3399.7	3423.0	3461.0	3469.8	3484.3	3478.5	3466.8
40°	2725.5	2711.0	2705.1	2711.0	2731.4	2722.7	2731.4	2725.5	2725.5	2705.1	2705.1
42.5°	2150.7	2133.2	2121.5	2112.8	2112.8	2092.3	2077.8	2063.2	2054.5	2039.8	2036.9
45°	1657.6	1637.1	1622.5	1616.6	1608.0	1581.7	1564.1	1546.6	1526.2	1520.4	1523.3
47.5°	1286.9	1266.5	1260.6	1246.1	1231.4	1216.9	1205.2	1184.8	1181.8	1170.2	1181.8
50°	992.2	986.4	977.6	971.7	963.0	951.3	939.7	928.0	922.1	922.1	925.0
52.5°	770.4	773.3	764.5	755.8	750.0	750.0	735.3	732.5	732.5	720.8	732.5
55°	589.5	586.5	589.5	583.6	583.6	574.9	574.9	566.1	566.1	557.3	563.2
57.5°	431.9	437.7	431.9	434.8	440.7	431.9	428.9	420.2	426.0	420.2	423.2
60°	335.6	335.6	335.6	332.7	332.7	329.7	329.7	326.8	326.8	320.9	326.8
62.5°	248.0	250.9	250.9	250.9	253.9	250.9	248.0	250.9	248.0	248.0	250.9
65°	163.5	166.4	166.4	163.5	169.2	163.5	166.4	169.2	172.1	169.2	172.1
67.5°	110.9	110.9	113.9	116.8	113.9	116.8	119.6	116.8	119.6	125.5	119.6
70°	81.7	84.7	84.7	81.7	78.8	81.7	78.8	87.6	87.6	87.6	93.3
72.5°	52.5	52.5	49.6	49.6	49.6	49.6	49.6	58.4	52.5	49.6	55.5
75°	29.2	32.1	32.1	23.3	26.3	32.1	23.3	26.3	35.1	29.2	35.1
77.5°	17.5	17.5	17.5	17.5	17.5	17.5	23.3	20.4	20.4	20.4	23.3
80°	14.5	11.7	11.7	8.8	11.7	11.7	11.7	17.5	14.5	14.5	17.5
82.5°	5.9	5.9	2.9	0.0	5.9	5.9	5.9	5.9	5.9	5.9	11.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0
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: P248780

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5
2.5°	5970.6	5970.6	5967.7	5961.9	5950.2	5950.2	5947.3	5938.5	5932.7	5929.7	5929.7
5°	5941.4	5929.7	5918.1	5886.0	5886.0	5880.1	5862.7	5850.9	5845.2	5830.5	5824.8
7.5°	5915.2	5880.1	5859.7	5839.3	5813.1	5801.3	5780.9	5772.1	5751.7	5737.2	5728.4
10°	5850.9	5827.6	5801.3	5769.3	5748.8	5725.5	5702.1	5684.7	5658.4	5643.7	5632.1
12.5°	5807.2	5772.1	5748.8	5713.8	5678.8	5658.4	5626.3	5605.9	5579.6	5550.4	5532.9
15°	5766.4	5728.4	5696.4	5658.4	5620.4	5597.1	5559.2	5535.9	5497.9	5468.7	5448.3
17.5°	5705.1	5672.9	5638.0	5591.2	5556.3	5527.1	5486.1	5457.1	5422.0	5384.1	5363.6
20°	5640.9	5602.9	5567.9	5521.2	5486.1	5451.2	5410.4	5378.3	5337.3	5302.4	5279.1
22.5°	5556.3	5512.5	5483.3	5436.5	5395.7	5357.9	5319.9	5282.0	5244.0	5214.8	5188.5
25°	5433.7	5386.9	5354.9	5316.9	5279.1	5249.9	5203.2	5179.9	5141.9	5115.6	5089.3
27.5°	5258.5	5223.6	5194.4	5156.4	5124.4	5101.1	5066.0	5042.7	5010.5	4987.2	4966.8
30°	5001.8	4972.7	4946.3	4908.4	4885.1	4864.7	4832.5	4812.1	4788.8	4762.5	4756.7
32.5°	4657.5	4634.1	4607.9	4581.6	4564.0	4552.4	4526.1	4514.4	4491.1	4476.5	4461.9
35°	4138.0	4117.6	4103.0	4091.4	4085.5	4088.4	4082.6	4094.3	4100.0	4097.1	4100.0
37.5°	3458.1	3446.3	3452.2	3461.0	3490.2	3528.1	3563.1	3615.6	3650.7	3685.7	3717.8
40°	2699.4	2708.1	2731.4	2783.9	2859.8	2944.5	3023.3	3122.5	3221.7	3291.8	3355.9
42.5°	2036.9	2063.2	2121.5	2197.4	2311.3	2436.7	2559.3	2705.1	2824.9	2941.5	3023.3
45°	1532.1	1567.0	1642.9	1748.0	1873.4	2019.4	2174.1	2337.4	2480.5	2600.1	2690.6
47.5°	1193.6	1225.7	1301.6	1412.4	1567.0	1718.9	1879.3	2048.6	2197.4	2314.1	2392.9
50°	942.5	983.4	1050.5	1167.3	1322.0	1482.5	1648.8	1815.1	1955.2	2054.5	2124.5
52.5°	741.2	779.2	843.3	966.0	1123.6	1284.0	1438.6	1602.1	1724.6	1820.9	1867.7
55°	574.9	609.9	677.0	779.2	928.0	1085.6	1240.2	1380.4	1494.1	1564.1	1608.0
57.5°	437.7	464.0	510.7	612.8	747.1	892.9	1024.3	1164.4	1252.0	1301.6	1330.6
60°	332.7	353.1	402.7	481.5	604.1	729.6	840.4	945.5	1015.6	1056.4	1085.6
62.5°	250.9	274.3	309.3	376.4	469.8	572.0	665.3	744.1	802.5	828.8	849.2
65°	172.1	189.7	216.0	268.5	347.3	420.2	493.2	551.6	589.5	618.7	630.4
67.5°	128.4	140.1	154.7	195.5	250.9	309.3	358.9	399.7	440.7	452.4	472.8
70°	96.3	105.1	119.6	148.8	180.9	221.7	262.7	286.0	315.2	335.6	341.5
72.5°	61.3	64.1	78.8	96.3	122.5	148.8	175.1	195.5	213.1	224.7	230.5
75°	35.1	52.5	52.5	70.0	87.6	99.2	116.8	131.3	140.1	148.8	148.8
77.5°	23.3	32.1	35.1	43.7	52.5	67.1	81.7	90.4	99.2	102.1	102.1
80°	20.4	23.3	23.3	32.1	38.0	49.6	58.4	61.3	67.1	70.0	75.9
82.5°	8.8	11.7	14.5	23.3	26.3	26.3	35.1	38.0	43.7	46.7	46.7
85°	2.9	5.9	5.9	8.8	14.5	17.5	20.4	23.3	26.3	26.3	29.2
87.5°	2.9	2.9	0.0	2.9	5.9	5.9	11.7	11.7	11.7	17.5	17.5
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: P248780

CATALOG NUMBER: LD8B100D010 ER8B100835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5	5976.5
2.5°	5924.0	5926.9	5915.2	5912.3	5906.4	5909.3	5915.2
5°	5816.0	5818.9	5807.2	5795.6	5795.6	5792.6	5795.6
7.5°	5713.8	5716.8	5699.2	5693.3	5681.7	5684.7	5684.7
10°	5611.7	5611.7	5585.5	5582.5	5573.7	5570.8	5570.8
12.5°	5512.5	5503.7	5483.3	5471.6	5477.5	5460.0	5460.0
15°	5424.9	5410.4	5384.1	5375.3	5360.7	5354.9	5354.9
17.5°	5334.4	5322.8	5299.5	5282.0	5264.4	5261.5	5264.4
20°	5246.9	5235.2	5206.0	5194.4	5179.9	5179.9	5174.0
22.5°	5159.3	5147.7	5121.5	5112.7	5092.3	5092.3	5095.2
25°	5068.9	5060.1	5030.9	5025.1	5022.3	5010.5	5016.4
27.5°	4946.3	4940.5	4917.2	4908.4	4896.7	4893.9	4899.6
30°	4721.6	4712.8	4695.4	4686.7	4666.2	4669.1	4674.9
32.5°	4441.5	4429.9	4406.4	4397.7	4380.2	4374.4	4377.2
35°	4091.4	4082.6	4062.2	4062.2	4044.6	4038.8	4044.6
37.5°	3735.3	3744.0	3735.3	3744.0	3735.3	3732.3	3735.3
40°	3399.7	3431.8	3437.6	3469.8	3458.1	3475.5	3472.7
42.5°	3078.7	3131.2	3151.7	3177.9	3172.1	3183.8	3192.5
45°	2754.7	2798.6	2819.0	2836.5	2839.4	2845.3	2848.2
47.5°	2448.3	2483.4	2486.3	2506.7	2503.8	2503.8	2512.6
50°	2162.4	2185.7	2191.5	2206.2	2194.5	2188.6	2191.5
52.5°	1896.9	1920.2	1914.3	1920.2	1905.6	1899.7	1902.6
55°	1625.4	1637.1	1637.1	1637.1	1619.6	1619.6	1619.6
57.5°	1348.2	1351.2	1345.3	1348.2	1345.3	1327.8	1324.9
60°	1094.4	1094.4	1091.4	1094.4	1085.6	1076.8	1076.8
62.5°	855.0	860.9	872.5	860.9	855.0	860.9	852.1
65°	639.1	650.8	647.8	653.7	650.8	650.8	644.9
67.5°	481.5	484.4	487.3	490.3	490.3	490.3	490.3
70°	353.1	361.9	358.9	358.9	358.9	358.9	376.4
72.5°	236.4	248.0	245.2	250.9	250.9	256.8	250.9
75°	160.5	172.1	166.4	175.1	172.1	166.4	180.9
77.5°	108.0	113.9	116.8	119.6	116.8	113.9	116.8
80°	75.9	81.7	78.8	81.7	81.7	81.7	84.7
82.5°	46.7	55.5	52.5	55.5	52.5	55.5	55.5
85°	32.1	35.1	29.2	35.1	32.1	32.1	38.0
87.5°	20.4	17.5	17.5	20.4	17.5	20.4	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)