

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: P248754

Luminaire Tested: **LD8B120D010 ER8B120930 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248754
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: LD8B120D010 ER8B120930 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10093.5 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

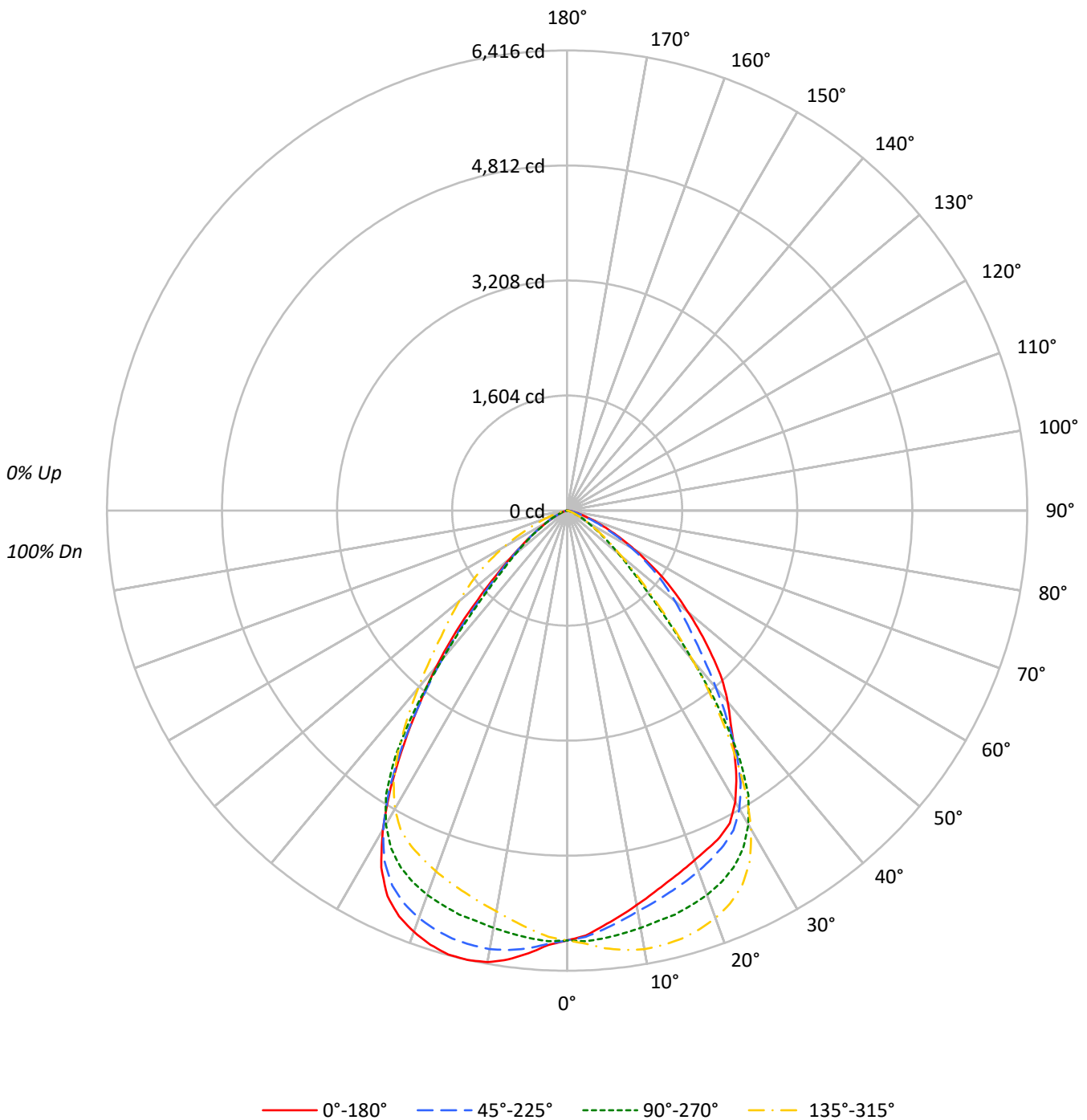
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.3	5.7
10°-20°	1651.6	16.4
20°-30°	2500.9	24.8
30°-40°	2506.5	24.8
40°-50°	1574.0	15.6
50°-60°	838.8	8.3
60°-70°	344.9	3.4
70°-80°	91.1	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°	4722.8	46.8
0°-40°	7229.3	71.6
0°-60°	9642.0	95.5
0°-90°	10093.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10093.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5992	5992	5992	5992	5992	
5°	5811	5983	6197	5983	5811	548
15°	5369	5828	6408	5828	5369	1518
25°	5030	5489	5931	5489	5030	2307
35°	4055	4169	3956	4169	4055	2541
45°	2856	1527	1767	1527	2856	2196
55°	1624	565	597	565	1624	1448
65°	647	173	158	173	647	671
75°	181	35	29	35	181	205
85°	38	0	3	0	38	42
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°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
2.5°	5930.8	5924.8	5922.0	5927.8	5930.8	5942.4	5939.5	5945.3	5945.3	5948.4	5954.1
5°	5810.8	5807.8	5810.8	5810.8	5822.5	5834.1	5831.3	5840.1	5845.9	5860.6	5866.3
7.5°	5699.6	5699.6	5696.7	5708.4	5714.2	5731.8	5728.8	5743.4	5752.3	5766.9	5787.3
10°	5585.5	5585.5	5588.4	5597.2	5600.2	5626.4	5626.4	5646.9	5658.6	5673.3	5699.6
12.5°	5474.3	5474.3	5491.9	5486.1	5497.7	5518.1	5527.0	5547.4	5565.0	5594.2	5620.7
15°	5368.9	5368.9	5374.9	5389.4	5398.2	5424.6	5439.2	5462.6	5483.1	5512.4	5550.4
17.5°	5278.2	5275.4	5278.2	5295.8	5313.4	5336.7	5348.5	5377.8	5398.2	5436.3	5471.5
20°	5187.5	5193.5	5193.5	5208.1	5219.7	5249.0	5260.6	5292.9	5316.3	5351.3	5392.5
22.5°	5108.6	5105.7	5105.7	5126.1	5135.0	5161.2	5172.9	5202.1	5228.6	5257.8	5295.8
25°	5029.6	5023.6	5035.4	5038.3	5044.2	5073.4	5082.2	5102.7	5129.0	5155.5	5193.5
27.5°	4912.6	4906.7	4909.6	4921.3	4930.0	4953.5	4959.4	4979.8	5000.3	5023.6	5055.9
30°	4687.2	4681.4	4678.5	4699.0	4707.8	4725.2	4734.0	4769.2	4775.0	4801.4	4824.7
32.5°	4388.7	4385.9	4391.7	4409.2	4418.0	4441.5	4453.2	4473.7	4488.3	4502.9	4526.3
35°	4055.3	4049.4	4055.3	4072.8	4072.8	4093.3	4102.2	4110.8	4107.9	4110.8	4105.0
37.5°	3745.1	3742.1	3745.1	3753.9	3745.1	3753.9	3745.1	3727.5	3695.5	3660.3	3625.1
40°	3481.8	3484.6	3467.3	3478.9	3446.6	3440.8	3408.7	3364.7	3300.4	3230.2	3130.7
42.5°	3200.9	3192.2	3180.5	3186.2	3160.0	3139.4	3086.8	3031.3	2949.2	2832.3	2712.3
45°	2855.6	2852.8	2846.9	2844.0	2826.4	2806.0	2761.9	2697.7	2607.0	2487.1	2343.6
47.5°	2519.2	2510.4	2510.4	2513.3	2492.8	2490.0	2454.8	2399.3	2320.2	2203.2	2054.0
50°	2197.3	2194.4	2200.3	2212.0	2197.3	2191.4	2168.1	2130.1	2059.8	1960.4	1819.8
52.5°	1907.6	1904.7	1910.6	1925.2	1919.3	1925.2	1901.9	1872.6	1825.8	1729.1	1606.3
55°	1623.9	1623.9	1623.9	1641.4	1641.4	1641.4	1629.7	1612.2	1568.3	1498.0	1384.0
57.5°	1328.4	1331.3	1348.8	1351.7	1348.8	1354.7	1351.7	1334.1	1305.0	1255.3	1167.4
60°	1079.6	1079.6	1088.5	1097.2	1094.2	1097.2	1097.2	1088.5	1059.2	1018.2	948.0
62.5°	854.3	863.2	857.2	863.2	874.8	863.2	857.2	851.4	831.0	804.7	746.0
65°	646.6	652.5	652.5	655.3	649.5	652.5	640.8	632.0	620.4	591.1	553.0
67.5°	491.6	491.6	491.6	491.6	488.6	485.7	482.8	474.1	453.6	441.9	400.8
70°	377.4	359.8	359.8	359.8	359.8	362.9	354.1	342.4	336.5	316.0	286.8
72.5°	251.6	257.5	251.6	251.6	245.8	248.6	237.0	231.2	225.3	213.7	196.1
75°	181.4	166.8	172.6	175.5	166.8	172.6	160.9	149.2	149.2	140.5	131.6
77.5°	117.0	114.1	117.0	119.9	117.0	114.1	108.3	102.3	102.3	99.4	90.7
80°	84.9	81.9	81.9	81.9	79.0	81.9	76.1	76.1	70.2	67.4	61.4
82.5°	55.6	55.6	52.6	55.6	52.6	55.6	46.9	46.9	46.9	43.8	38.0
85°	38.0	32.2	32.2	35.2	29.3	35.2	32.2	29.3	26.3	26.3	23.3
87.5°	17.6	20.5	17.6	20.5	17.6	17.6	20.5	17.6	17.6	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
2.5°	5962.9	5965.8	5965.8	5977.6	5983.3	5986.3	5986.3	6009.8	6000.9	6006.9	6012.7
5°	5878.2	5895.6	5901.5	5901.5	5933.7	5945.3	5957.0	5983.3	5986.3	6003.9	6024.4
7.5°	5796.1	5816.6	5828.4	5854.6	5875.2	5895.6	5930.8	5948.4	5965.8	5989.3	6015.5
10°	5717.1	5740.6	5764.0	5784.5	5816.6	5843.0	5866.3	5907.3	5927.8	5960.0	5995.1
12.5°	5641.1	5673.3	5693.8	5728.8	5764.0	5787.3	5822.5	5860.6	5892.8	5924.8	5965.8
15°	5573.8	5611.8	5635.3	5673.3	5711.4	5743.4	5781.6	5828.4	5851.7	5889.8	5927.8
17.5°	5500.6	5541.7	5570.9	5606.0	5652.8	5687.8	5720.1	5766.9	5796.1	5837.0	5881.0
20°	5424.6	5465.5	5500.6	5535.7	5582.6	5617.7	5655.7	5702.5	5734.7	5775.6	5810.8
22.5°	5333.9	5371.9	5409.9	5450.9	5497.7	5527.0	5570.9	5611.8	5646.9	5684.9	5720.1
25°	5216.8	5263.7	5292.9	5330.9	5368.9	5401.1	5447.9	5488.9	5518.1	5553.3	5585.5
27.5°	5079.4	5114.5	5137.9	5170.1	5208.1	5237.3	5272.4	5313.4	5342.7	5374.9	5398.2
30°	4845.2	4877.5	4898.0	4921.3	4959.4	4985.8	5015.0	5052.9	5073.4	5096.9	5117.4
32.5°	4537.9	4564.4	4576.0	4593.6	4620.0	4646.2	4669.7	4701.9	4710.7	4725.2	4725.2
35°	4093.3	4099.2	4096.2	4102.2	4113.8	4128.4	4148.8	4169.3	4181.0	4181.0	4172.4
37.5°	3572.5	3537.4	3499.4	3470.1	3461.3	3455.4	3467.3	3475.9	3487.7	3493.5	3478.9
40°	3031.3	2952.3	2867.3	2791.3	2738.6	2715.3	2706.4	2712.3	2712.3	2732.7	2732.7
42.5°	2566.1	2443.1	2317.3	2203.2	2127.1	2068.7	2042.2	2042.2	2045.2	2059.8	2068.7
45°	2179.8	2024.6	1878.3	1752.7	1647.3	1571.2	1536.1	1527.4	1524.4	1530.2	1550.7
47.5°	1884.3	1723.4	1571.2	1416.2	1305.0	1228.8	1196.8	1184.9	1173.2	1184.9	1187.9
50°	1653.1	1486.3	1325.5	1170.3	1053.3	985.9	945.0	927.4	924.6	924.6	930.4
52.5°	1442.4	1287.4	1126.5	968.5	845.6	781.2	743.2	734.4	722.7	734.4	734.4
55°	1243.4	1088.5	930.4	781.2	678.8	611.5	576.4	564.6	558.8	567.6	567.6
57.5°	1027.1	895.2	749.1	614.4	512.1	465.2	438.9	424.3	421.3	427.2	421.3
60°	842.7	731.5	605.7	482.8	403.8	354.1	333.6	327.7	321.8	327.7	327.7
62.5°	667.1	573.5	471.0	377.4	310.1	275.1	251.6	251.6	248.6	248.6	251.6
65°	494.5	421.3	348.2	269.2	216.6	190.1	172.6	172.6	169.7	172.6	169.7
67.5°	359.8	310.1	251.6	196.1	155.1	140.5	128.7	119.9	125.9	119.9	117.0
70°	263.4	222.3	181.4	149.2	119.9	105.4	96.6	93.6	87.8	87.8	87.8
72.5°	175.5	149.2	122.9	96.6	79.0	64.3	61.4	55.6	49.8	52.6	58.5
75°	117.0	99.4	87.8	70.2	52.6	52.6	35.2	35.2	29.3	35.2	26.3
77.5°	81.9	67.4	52.6	43.8	35.2	32.2	23.3	23.3	20.5	20.5	20.5
80°	58.5	49.8	38.0	32.2	23.3	23.3	20.5	17.6	14.6	14.6	17.6
82.5°	35.2	26.3	26.3	23.3	14.6	11.7	8.7	11.7	5.9	5.9	5.9
85°	20.5	17.6	14.6	8.7	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
2.5°	6027.4	6024.4	6030.2	6030.2	6047.8	6044.8	6053.6	6053.6	6047.8	6050.7	6062.4
5°	6047.8	6056.7	6074.0	6088.8	6115.1	6126.8	6141.4	6156.1	6159.0	6167.7	6176.6
7.5°	6047.8	6077.1	6097.6	6123.8	6159.0	6179.4	6211.6	6238.0	6249.7	6264.3	6281.9
10°	6036.0	6065.3	6103.3	6132.7	6176.6	6208.8	6240.8	6281.9	6299.3	6322.8	6346.2
12.5°	6012.7	6044.8	6085.8	6123.8	6173.6	6202.8	6243.7	6281.9	6308.2	6340.4	6366.7
15°	5977.6	6015.5	6053.6	6091.6	6144.3	6179.4	6217.5	6261.3	6287.7	6322.8	6346.2
17.5°	5922.0	5962.9	5998.1	6033.1	6082.9	6123.8	6159.0	6199.9	6226.3	6255.5	6287.7
20°	5854.6	5892.8	5930.8	5960.0	6009.8	6044.8	6082.9	6120.9	6141.4	6147.3	6197.0
22.5°	5769.9	5796.1	5825.4	5872.2	5901.5	5933.7	5968.8	6003.9	6024.4	6056.7	6074.0
25°	5629.3	5655.7	5687.8	5708.4	5743.4	5769.9	5804.9	5843.0	5854.6	5878.2	5895.6
27.5°	5433.4	5447.9	5462.6	5480.1	5500.6	5515.3	5535.7	5553.3	5565.0	5576.6	5588.4
30°	5123.2	5123.2	5123.2	5111.4	5120.3	5129.0	5131.9	5129.0	5129.0	5126.1	5126.1
32.5°	4713.6	4690.2	4663.8	4640.5	4631.6	4620.0	4614.0	4605.3	4590.7	4582.0	4584.8
35°	4160.6	4107.9	4075.7	4046.5	4023.2	4005.6	3996.7	3988.0	3985.0	3973.4	3961.6
37.5°	3470.1	3432.1	3408.7	3391.1	3370.6	3353.0	3355.9	3359.0	3367.6	3361.9	3364.7
40°	2738.6	2729.9	2738.6	2718.1	2712.3	2718.1	2732.7	2753.3	2764.9	2776.7	2797.1
42.5°	2083.3	2097.8	2118.4	2118.4	2127.1	2138.9	2156.4	2188.6	2206.0	2226.5	2250.1
45°	1568.3	1585.9	1612.2	1620.9	1626.8	1641.4	1662.0	1688.2	1699.9	1717.5	1738.0
47.5°	1208.4	1220.1	1234.7	1249.4	1263.9	1269.9	1290.3	1290.3	1305.0	1316.7	1322.4
50°	942.1	953.9	965.5	974.3	980.2	988.9	994.8	1003.5	1006.4	1012.4	1015.3
52.5°	737.3	752.0	752.0	757.8	766.5	775.3	772.5	775.3	778.2	778.2	787.1
55°	576.4	576.4	585.2	585.2	591.1	588.1	591.1	591.1	591.1	591.1	594.0
57.5°	430.0	433.0	441.9	436.0	433.0	438.9	433.0	438.9	436.0	441.9	433.0
60°	330.6	330.6	333.6	333.6	336.5	336.5	336.5	333.6	333.6	330.6	330.6
62.5°	248.6	251.6	254.6	251.6	251.6	251.6	248.6	248.6	245.8	242.8	242.8
65°	166.8	163.9	169.7	163.9	166.8	166.8	163.9	166.8	158.1	160.9	158.1
67.5°	119.9	117.0	114.1	117.0	114.1	111.2	111.2	114.1	117.0	108.3	108.3
70°	79.0	81.9	79.0	81.9	84.9	84.9	81.9	79.0	81.9	76.1	79.0
72.5°	49.8	49.8	49.8	49.8	49.8	52.6	52.6	52.6	46.9	46.9	43.8
75°	23.3	32.2	26.3	23.3	32.2	32.2	29.3	29.3	26.3	26.3	26.3
77.5°	23.3	17.6	17.6	17.6	17.6	17.6	17.6	17.6	14.6	17.6	14.6
80°	11.7	11.7	11.7	8.7	11.7	11.7	14.6	11.7	11.7	8.7	14.6
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: P248754

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
2.5°	6059.5	6056.7	6059.5	6062.4	6059.5	6056.7	6059.5	6062.4	6050.7	6047.8	6053.6
5°	6188.3	6188.3	6194.0	6197.0	6194.0	6188.3	6188.3	6176.6	6167.7	6159.0	6156.1
7.5°	6299.3	6305.3	6311.1	6313.9	6311.1	6305.3	6299.3	6281.9	6264.3	6249.7	6238.0
10°	6366.7	6375.5	6387.2	6393.0	6387.2	6375.5	6366.7	6346.2	6322.8	6299.3	6281.9
12.5°	6396.0	6404.8	6419.4	6416.5	6419.4	6404.8	6396.0	6366.7	6340.4	6308.2	6281.9
15°	6375.5	6387.2	6401.8	6407.6	6401.8	6387.2	6375.5	6346.2	6322.8	6287.7	6261.3
17.5°	6311.1	6328.7	6337.5	6346.2	6337.5	6328.7	6311.1	6287.7	6255.5	6226.3	6199.9
20°	6223.3	6235.1	6246.8	6249.7	6246.8	6235.1	6223.3	6197.0	6147.3	6141.4	6120.9
22.5°	6097.6	6106.3	6132.7	6123.8	6132.7	6106.3	6097.6	6074.0	6056.7	6024.4	6003.9
25°	5916.1	5924.8	5927.8	5930.8	5927.8	5924.8	5916.1	5895.6	5878.2	5854.6	5843.0
27.5°	5603.1	5603.1	5608.8	5611.8	5608.8	5603.1	5603.1	5588.4	5576.6	5565.0	5553.3
30°	5129.0	5129.0	5129.0	5143.7	5129.0	5129.0	5129.0	5126.1	5126.1	5129.0	5129.0
32.5°	4582.0	4576.0	4570.2	4576.0	4570.2	4576.0	4582.0	4584.8	4582.0	4590.7	4605.3
35°	3961.6	3958.7	3967.4	3955.8	3967.4	3958.7	3961.6	3961.6	3973.4	3985.0	3988.0
37.5°	3367.6	3361.9	3373.5	3361.9	3373.5	3361.9	3367.6	3364.7	3361.9	3367.6	3359.0
40°	2803.1	2808.8	2808.8	2832.3	2808.8	2808.8	2803.1	2797.1	2776.7	2764.9	2753.3
42.5°	2261.7	2279.3	2273.4	2291.0	2273.4	2279.3	2261.7	2250.1	2226.5	2206.0	2188.6
45°	1749.7	1761.4	1761.4	1767.3	1761.4	1761.4	1749.7	1738.0	1717.5	1699.9	1688.2
47.5°	1343.0	1343.0	1343.0	1346.0	1343.0	1343.0	1343.0	1322.4	1316.7	1305.0	1290.3
50°	1021.1	1024.0	1027.1	1030.0	1027.1	1024.0	1021.1	1015.3	1012.4	1006.4	1003.5
52.5°	784.1	787.1	781.2	787.1	781.2	787.1	784.1	787.1	778.2	778.2	775.3
55°	594.0	591.1	594.0	596.8	594.0	591.1	594.0	594.0	591.1	591.1	591.1
57.5°	436.0	430.0	430.0	430.0	430.0	430.0	436.0	433.0	441.9	436.0	438.9
60°	324.8	327.7	327.7	330.6	327.7	327.7	324.8	330.6	330.6	333.6	333.6
62.5°	239.9	248.6	242.8	248.6	242.8	248.6	239.9	242.8	242.8	245.8	248.6
65°	155.1	155.1	155.1	158.1	155.1	155.1	155.1	158.1	160.9	158.1	166.8
67.5°	105.4	108.3	114.1	111.2	114.1	108.3	105.4	108.3	108.3	117.0	114.1
70°	84.9	76.1	76.1	84.9	76.1	76.1	84.9	79.0	76.1	81.9	79.0
72.5°	49.8	43.8	49.8	49.8	49.8	43.8	49.8	43.8	46.9	46.9	52.6
75°	26.3	23.3	20.5	29.3	20.5	23.3	26.3	26.3	26.3	26.3	29.3
77.5°	17.6	14.6	20.5	20.5	20.5	14.6	17.6	14.6	17.6	14.6	17.6
80°	8.7	11.7	8.7	14.6	8.7	11.7	8.7	14.6	8.7	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: P248754

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
2.5°	6053.6	6044.8	6047.8	6030.2	6030.2	6024.4	6027.4	6012.7	6006.9	6000.9	6009.8
5°	6141.4	6126.8	6115.1	6088.8	6074.0	6056.7	6047.8	6024.4	6003.9	5986.3	5983.3
7.5°	6211.6	6179.4	6159.0	6123.8	6097.6	6077.1	6047.8	6015.5	5989.3	5965.8	5948.4
10°	6240.8	6208.8	6176.6	6132.7	6103.3	6065.3	6036.0	5995.1	5960.0	5927.8	5907.3
12.5°	6243.7	6202.8	6173.6	6123.8	6085.8	6044.8	6012.7	5965.8	5924.8	5892.8	5860.6
15°	6217.5	6179.4	6144.3	6091.6	6053.6	6015.5	5977.6	5927.8	5889.8	5851.7	5828.4
17.5°	6159.0	6123.8	6082.9	6033.1	5998.1	5962.9	5922.0	5881.0	5837.0	5796.1	5766.9
20°	6082.9	6044.8	6009.8	5960.0	5930.8	5892.8	5854.6	5810.8	5775.6	5734.7	5702.5
22.5°	5968.8	5933.7	5901.5	5872.2	5825.4	5796.1	5769.9	5720.1	5684.9	5646.9	5611.8
25°	5804.9	5769.9	5743.4	5708.4	5687.8	5655.7	5629.3	5585.5	5553.3	5518.1	5488.9
27.5°	5535.7	5515.3	5500.6	5480.1	5462.6	5447.9	5433.4	5398.2	5374.9	5342.7	5313.4
30°	5131.9	5129.0	5120.3	5111.4	5123.2	5123.2	5123.2	5117.4	5096.9	5073.4	5052.9
32.5°	4614.0	4620.0	4631.6	4640.5	4663.8	4690.2	4713.6	4725.2	4725.2	4710.7	4701.9
35°	3996.7	4005.6	4023.2	4046.5	4075.7	4107.9	4160.6	4172.4	4181.0	4181.0	4169.3
37.5°	3355.9	3353.0	3370.6	3391.1	3408.7	3432.1	3470.1	3478.9	3493.5	3487.7	3475.9
40°	2732.7	2718.1	2712.3	2718.1	2738.6	2729.9	2738.6	2732.7	2732.7	2712.3	2712.3
42.5°	2156.4	2138.9	2127.1	2118.4	2118.4	2097.8	2083.3	2068.7	2059.8	2045.2	2042.2
45°	1662.0	1641.4	1626.8	1620.9	1612.2	1585.9	1568.3	1550.7	1530.2	1524.4	1527.4
47.5°	1290.3	1269.9	1263.9	1249.4	1234.7	1220.1	1208.4	1187.9	1184.9	1173.2	1184.9
50°	994.8	988.9	980.2	974.3	965.5	953.9	942.1	930.4	924.6	924.6	927.4
52.5°	772.5	775.3	766.5	757.8	752.0	752.0	737.3	734.4	734.4	722.7	734.4
55°	591.1	588.1	591.1	585.2	585.2	576.4	576.4	567.6	567.6	558.8	564.6
57.5°	433.0	438.9	433.0	436.0	441.9	433.0	430.0	421.3	427.2	421.3	424.3
60°	336.5	336.5	336.5	333.6	333.6	330.6	330.6	327.7	327.7	321.8	327.7
62.5°	248.6	251.6	251.6	251.6	254.6	251.6	248.6	251.6	248.6	248.6	251.6
65°	163.9	166.8	166.8	163.9	169.7	163.9	166.8	169.7	172.6	169.7	172.6
67.5°	111.2	111.2	114.1	117.0	114.1	117.0	119.9	117.0	119.9	125.9	119.9
70°	81.9	84.9	84.9	81.9	79.0	81.9	79.0	87.8	87.8	87.8	93.6
72.5°	52.6	52.6	49.8	49.8	49.8	49.8	49.8	58.5	52.6	49.8	55.6
75°	29.3	32.2	32.2	23.3	26.3	32.2	23.3	26.3	35.2	29.3	35.2
77.5°	17.6	17.6	17.6	17.6	17.6	17.6	23.3	20.5	20.5	20.5	23.3
80°	14.6	11.7	11.7	8.7	11.7	11.7	11.7	17.6	14.6	14.6	17.6
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: P248754

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
2.5°	5986.3	5986.3	5983.3	5977.6	5965.8	5965.8	5962.9	5954.1	5948.4	5945.3	5945.3
5°	5957.0	5945.3	5933.7	5901.5	5901.5	5895.6	5878.2	5866.3	5860.6	5845.9	5840.1
7.5°	5930.8	5895.6	5875.2	5854.6	5828.4	5816.6	5796.1	5787.3	5766.9	5752.3	5743.4
10°	5866.3	5843.0	5816.6	5784.5	5764.0	5740.6	5717.1	5699.6	5673.3	5658.6	5646.9
12.5°	5822.5	5787.3	5764.0	5728.8	5693.8	5673.3	5641.1	5620.7	5594.2	5565.0	5547.4
15°	5781.6	5743.4	5711.4	5673.3	5635.3	5611.8	5573.8	5550.4	5512.4	5483.1	5462.6
17.5°	5720.1	5687.8	5652.8	5606.0	5570.9	5541.7	5500.6	5471.5	5436.3	5398.2	5377.8
20°	5655.7	5617.7	5582.6	5535.7	5500.6	5465.5	5424.6	5392.5	5351.3	5316.3	5292.9
22.5°	5570.9	5527.0	5497.7	5450.9	5409.9	5371.9	5333.9	5295.8	5257.8	5228.6	5202.1
25°	5447.9	5401.1	5368.9	5330.9	5292.9	5263.7	5216.8	5193.5	5155.5	5129.0	5102.7
27.5°	5272.4	5237.3	5208.1	5170.1	5137.9	5114.5	5079.4	5055.9	5023.6	5000.3	4979.8
30°	5015.0	4985.8	4959.4	4921.3	4898.0	4877.5	4845.2	4824.7	4801.4	4775.0	4769.2
32.5°	4669.7	4646.2	4620.0	4593.6	4576.0	4564.4	4537.9	4526.3	4502.9	4488.3	4473.7
35°	4148.8	4128.4	4113.8	4102.2	4096.2	4099.2	4093.3	4105.0	4110.8	4107.9	4110.8
37.5°	3467.3	3455.4	3461.3	3470.1	3499.4	3537.4	3572.5	3625.1	3660.3	3695.5	3727.5
40°	2706.4	2715.3	2738.6	2791.3	2867.3	2952.3	3031.3	3130.7	3230.2	3300.4	3364.7
42.5°	2042.2	2068.7	2127.1	2203.2	2317.3	2443.1	2566.1	2712.3	2832.3	2949.2	3031.3
45°	1536.1	1571.2	1647.3	1752.7	1878.3	2024.6	2179.8	2343.6	2487.1	2607.0	2697.7
47.5°	1196.8	1228.8	1305.0	1416.2	1571.2	1723.4	1884.3	2054.0	2203.2	2320.2	2399.3
50°	945.0	985.9	1053.3	1170.3	1325.5	1486.3	1653.1	1819.8	1960.4	2059.8	2130.1
52.5°	743.2	781.2	845.6	968.5	1126.5	1287.4	1442.4	1606.3	1729.1	1825.8	1872.6
55°	576.4	611.5	678.8	781.2	930.4	1088.5	1243.4	1384.0	1498.0	1568.3	1612.2
57.5°	438.9	465.2	512.1	614.4	749.1	895.2	1027.1	1167.4	1255.3	1305.0	1334.1
60°	333.6	354.1	403.8	482.8	605.7	731.5	842.7	948.0	1018.2	1059.2	1088.5
62.5°	251.6	275.1	310.1	377.4	471.0	573.5	667.1	746.0	804.7	831.0	851.4
65°	172.6	190.1	216.6	269.2	348.2	421.3	494.5	553.0	591.1	620.4	632.0
67.5°	128.7	140.5	155.1	196.1	251.6	310.1	359.8	400.8	441.9	453.6	474.1
70°	96.6	105.4	119.9	149.2	181.4	222.3	263.4	286.8	316.0	336.5	342.4
72.5°	61.4	64.3	79.0	96.6	122.9	149.2	175.5	196.1	213.7	225.3	231.2
75°	35.2	52.6	52.6	70.2	87.8	99.4	117.0	131.6	140.5	149.2	149.2
77.5°	23.3	32.2	35.2	43.8	52.6	67.4	81.9	90.7	99.4	102.3	102.3
80°	20.5	23.3	23.3	32.2	38.0	49.8	58.5	61.4	67.4	70.2	76.1
82.5°	8.7	11.7	14.6	23.3	26.3	26.3	35.2	38.0	43.8	46.9	46.9
85°	2.9	5.9	5.9	8.7	14.6	17.6	20.5	23.3	26.3	26.3	29.3
87.5°	2.9	2.9	0.0	2.9	5.9	5.9	11.7	11.7	11.7	17.6	17.6
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: P248754

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
2.5°	5939.5	5942.4	5930.8	5927.8	5922.0	5924.8	5930.8
5°	5831.3	5834.1	5822.5	5810.8	5810.8	5807.8	5810.8
7.5°	5728.8	5731.8	5714.2	5708.4	5696.7	5699.6	5699.6
10°	5626.4	5626.4	5600.2	5597.2	5588.4	5585.5	5585.5
12.5°	5527.0	5518.1	5497.7	5486.1	5491.9	5474.3	5474.3
15°	5439.2	5424.6	5398.2	5389.4	5374.9	5368.9	5368.9
17.5°	5348.5	5336.7	5313.4	5295.8	5278.2	5275.4	5278.2
20°	5260.6	5249.0	5219.7	5208.1	5193.5	5193.5	5187.5
22.5°	5172.9	5161.2	5135.0	5126.1	5105.7	5105.7	5108.6
25°	5082.2	5073.4	5044.2	5038.3	5035.4	5023.6	5029.6
27.5°	4959.4	4953.5	4930.0	4921.3	4909.6	4906.7	4912.6
30°	4734.0	4725.2	4707.8	4699.0	4678.5	4681.4	4687.2
32.5°	4453.2	4441.5	4418.0	4409.2	4391.7	4385.9	4388.7
35°	4102.2	4093.3	4072.8	4072.8	4055.3	4049.4	4055.3
37.5°	3745.1	3753.9	3745.1	3753.9	3745.1	3742.1	3745.1
40°	3408.7	3440.8	3446.6	3478.9	3467.3	3484.6	3481.8
42.5°	3086.8	3139.4	3160.0	3186.2	3180.5	3192.2	3200.9
45°	2761.9	2806.0	2826.4	2844.0	2846.9	2852.8	2855.6
47.5°	2454.8	2490.0	2492.8	2513.3	2510.4	2510.4	2519.2
50°	2168.1	2191.4	2197.3	2212.0	2200.3	2194.4	2197.3
52.5°	1901.9	1925.2	1919.3	1925.2	1910.6	1904.7	1907.6
55°	1629.7	1641.4	1641.4	1641.4	1623.9	1623.9	1623.9
57.5°	1351.7	1354.7	1348.8	1351.7	1348.8	1331.3	1328.4
60°	1097.2	1097.2	1094.2	1097.2	1088.5	1079.6	1079.6
62.5°	857.2	863.2	874.8	863.2	857.2	863.2	854.3
65°	640.8	652.5	649.5	655.3	652.5	652.5	646.6
67.5°	482.8	485.7	488.6	491.6	491.6	491.6	491.6
70°	354.1	362.9	359.8	359.8	359.8	359.8	377.4
72.5°	237.0	248.6	245.8	251.6	251.6	257.5	251.6
75°	160.9	172.6	166.8	175.5	172.6	166.8	181.4
77.5°	108.3	114.1	117.0	119.9	117.0	114.1	117.0
80°	76.1	81.9	79.0	81.9	81.9	81.9	84.9
82.5°	46.9	55.6	52.6	55.6	52.6	55.6	55.6
85°	32.2	35.2	29.3	35.2	32.2	32.2	38.0
87.5°	20.5	17.6	17.6	20.5	17.6	20.5	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)