

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: P248862

Luminaire Tested: **LD8B120D010 ER8B120930 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248862
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9424.2 lumens
Efficiency: N/A
Efficacy: 79.7 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

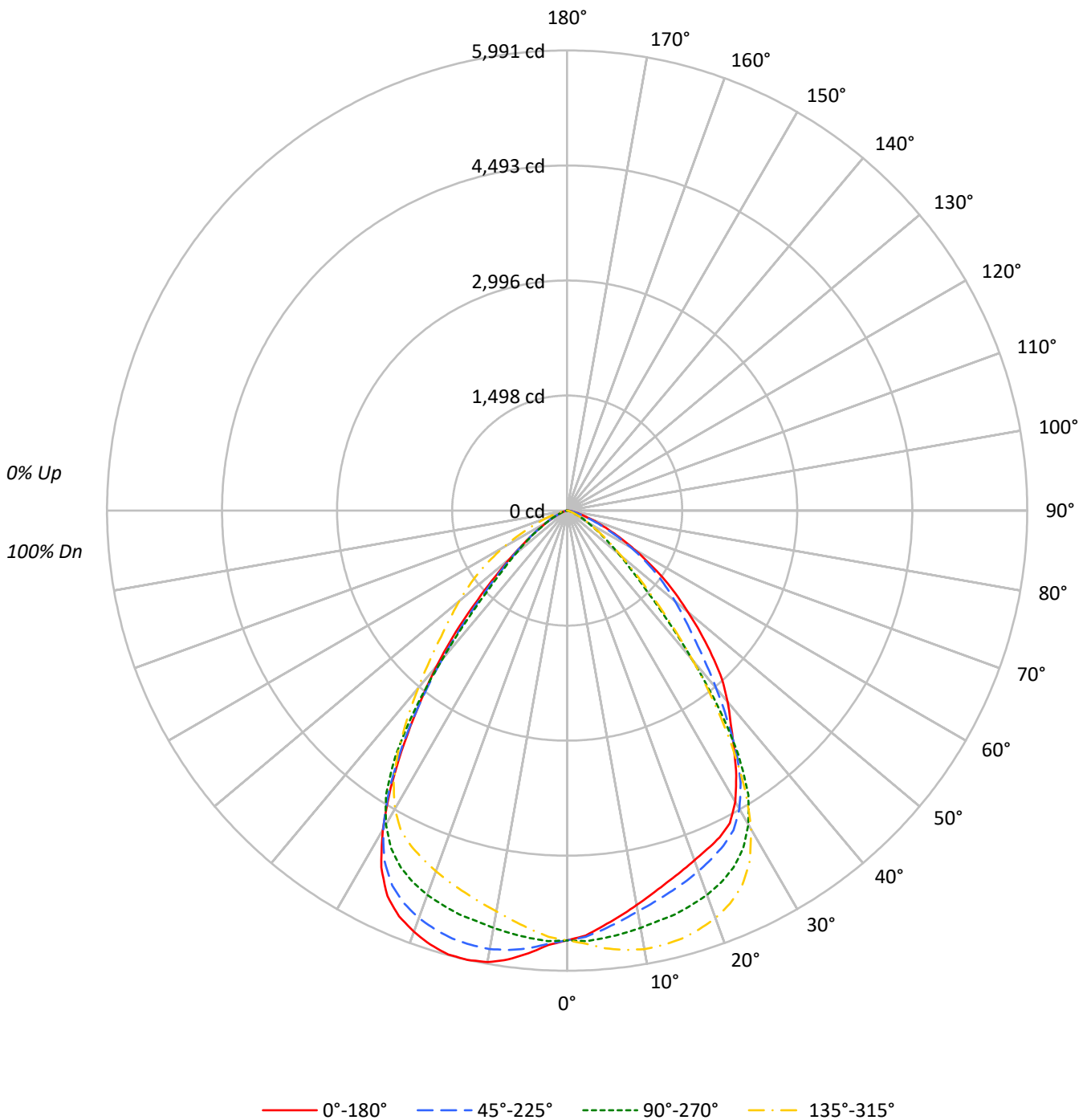
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	532.5	5.7
10°-20°	1542.1	16.4
20°-30°	2335.1	24.8
30°-40°	2340.3	24.8
40°-50°	1469.6	15.6
50°-60°	783.1	8.3
60°-70°	322.0	3.4
70°-80°	85.1	0.9
80°-90°	14.4	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°	4409.7	46.8
0°-40°	6750.0	71.6
0°-60°	9002.7	95.5
0°-90°	9424.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9424.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5595	5595	5595	5595	5595	
5°	5426	5587	5786	5587	5426	512
15°	5013	5442	5983	5442	5013	1418
25°	4696	5125	5538	5125	4696	2154
35°	3786	3893	3694	3893	3786	2372
45°	2666	1426	1650	1426	2666	2051
55°	1516	527	557	527	1516	1352
65°	604	161	148	161	604	626
75°	169	33	27	33	169	192
85°	36	0	3	0	36	39
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°	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9
2.5°	5537.5	5532.0	5529.3	5534.8	5537.5	5548.4	5545.7	5551.1	5551.1	5554.0	5559.4
5°	5425.5	5422.7	5425.5	5425.5	5436.4	5447.4	5444.7	5452.9	5458.3	5471.9	5477.3
7.5°	5321.7	5321.7	5318.9	5329.8	5335.4	5351.8	5349.0	5362.6	5370.9	5384.5	5403.6
10°	5215.1	5215.1	5217.8	5226.1	5228.9	5253.3	5253.3	5272.5	5283.4	5297.2	5321.7
12.5°	5111.3	5111.3	5127.8	5122.3	5133.2	5152.3	5160.5	5179.6	5196.1	5223.3	5248.0
15°	5013.0	5013.0	5018.5	5032.1	5040.2	5064.9	5078.6	5100.4	5119.6	5146.8	5182.4
17.5°	4928.3	4925.6	4928.3	4944.7	4961.1	4983.0	4993.8	5021.2	5040.2	5075.8	5108.6
20°	4843.6	4849.1	4849.1	4862.8	4873.7	4901.0	4911.9	4942.0	4963.8	4996.5	5034.9
22.5°	4769.9	4767.2	4767.2	4786.2	4794.5	4819.0	4829.9	4857.2	4881.8	4909.2	4944.7
25°	4696.1	4690.6	4701.6	4704.3	4709.7	4737.0	4745.2	4764.4	4789.0	4813.6	4849.1
27.5°	4586.8	4581.4	4584.1	4595.0	4603.2	4625.0	4630.5	4649.7	4668.7	4690.6	4720.8
30°	4376.4	4371.0	4368.3	4387.5	4395.7	4411.9	4420.1	4452.9	4458.3	4483.0	4504.9
32.5°	4097.8	4095.0	4100.6	4116.9	4125.1	4147.0	4157.9	4177.1	4190.6	4204.3	4226.2
35°	3786.4	3780.9	3786.4	3802.8	3802.8	3821.9	3830.1	3838.2	3835.5	3838.2	3832.8
37.5°	3496.8	3494.0	3496.8	3504.9	3496.8	3504.9	3496.8	3480.5	3450.4	3417.6	3384.7
40°	3250.9	3253.6	3237.3	3248.2	3218.1	3212.7	3182.6	3141.6	3081.6	3016.1	2923.1
42.5°	2988.7	2980.5	2969.6	2975.0	2950.5	2931.3	2882.1	2830.3	2753.7	2644.6	2532.5
45°	2666.3	2663.6	2658.1	2655.4	2638.9	2619.9	2578.9	2518.8	2434.1	2322.2	2188.2
47.5°	2352.2	2343.9	2343.9	2346.6	2327.5	2324.8	2292.0	2240.2	2166.4	2057.1	1917.8
50°	2051.5	2048.9	2054.3	2065.3	2051.5	2046.2	2024.4	1988.9	1923.3	1830.4	1699.2
52.5°	1781.2	1778.5	1784.0	1797.5	1792.0	1797.5	1775.8	1748.4	1704.7	1614.5	1499.8
55°	1516.3	1516.3	1516.3	1532.5	1532.5	1532.5	1521.6	1505.3	1464.3	1398.7	1292.2
57.5°	1240.3	1243.0	1259.4	1262.1	1259.4	1264.9	1262.1	1245.7	1218.4	1172.0	1090.1
60°	1008.1	1008.1	1016.3	1024.5	1021.7	1024.5	1024.5	1016.3	988.9	950.7	885.1
62.5°	797.7	805.9	800.4	805.9	816.8	805.9	800.4	795.0	775.8	751.3	696.6
65°	603.8	609.3	609.3	612.0	606.5	609.3	598.3	590.1	579.2	551.9	516.3
67.5°	459.0	459.0	459.0	459.0	456.2	453.4	450.8	442.6	423.5	412.5	374.2
70°	352.4	336.0	336.0	336.0	336.0	338.8	330.6	319.7	314.2	295.0	267.7
72.5°	234.8	240.5	234.8	234.8	229.5	232.2	221.3	215.8	210.4	199.4	183.1
75°	169.4	155.7	161.1	164.0	155.7	161.1	150.2	139.3	139.3	131.2	122.9
77.5°	109.3	106.6	109.3	112.0	109.3	106.6	101.1	95.6	95.6	92.9	84.6
80°	79.3	76.5	76.5	76.5	73.8	76.5	71.1	71.1	65.6	62.9	57.4
82.5°	51.9	51.9	49.1	51.9	49.1	51.9	43.7	43.7	43.7	40.9	35.5
85°	35.5	30.0	30.0	32.8	27.4	32.8	30.0	27.4	24.7	24.7	21.9
87.5°	16.4	19.2	16.4	19.2	16.4	16.4	19.2	16.4	16.4	10.9	10.9
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: P248862

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9
2.5°	5567.6	5570.2	5570.2	5581.2	5586.6	5589.4	5589.4	5611.3	5603.1	5608.6	5614.0
5°	5488.4	5504.7	5510.2	5510.2	5540.2	5551.1	5562.1	5586.6	5589.4	5605.8	5625.0
7.5°	5411.9	5430.9	5441.9	5466.4	5485.6	5504.7	5537.5	5554.0	5570.2	5592.2	5616.7
10°	5338.1	5359.9	5381.8	5400.9	5430.9	5455.6	5477.3	5515.7	5534.8	5564.9	5597.6
12.5°	5267.1	5297.2	5316.2	5349.0	5381.8	5403.6	5436.4	5471.9	5502.0	5532.0	5570.2
15°	5204.2	5239.8	5261.6	5297.2	5332.6	5362.6	5398.2	5441.9	5463.8	5499.3	5534.8
17.5°	5135.9	5174.2	5201.6	5234.3	5278.0	5310.7	5340.9	5384.5	5411.9	5450.1	5491.1
20°	5064.9	5103.1	5135.9	5168.7	5212.4	5245.2	5280.7	5324.4	5354.5	5392.7	5425.5
22.5°	4980.3	5015.8	5051.2	5089.5	5133.2	5160.5	5201.6	5239.8	5272.5	5308.0	5340.9
25°	4871.0	4914.7	4942.0	4977.5	5013.0	5043.0	5086.8	5125.0	5152.3	5185.1	5215.1
27.5°	4742.5	4775.3	4797.2	4827.3	4862.8	4890.0	4922.8	4961.1	4988.4	5018.5	5040.2
30°	4523.9	4554.1	4573.2	4595.0	4630.5	4655.2	4682.5	4718.0	4737.0	4759.0	4778.0
32.5°	4237.0	4261.7	4272.6	4289.1	4313.7	4338.2	4360.1	4390.2	4398.4	4411.9	4411.9
35°	3821.9	3827.3	3824.6	3830.1	3841.1	3854.7	3873.7	3892.9	3903.8	3903.8	3895.7
37.5°	3335.6	3302.9	3267.4	3240.0	3231.8	3226.4	3237.3	3245.4	3256.4	3261.9	3248.2
40°	2830.3	2756.5	2677.3	2606.2	2557.0	2535.3	2527.0	2532.5	2532.5	2551.5	2551.5
42.5°	2395.9	2281.1	2163.6	2057.1	1986.1	1931.5	1906.8	1906.8	1909.5	1923.3	1931.5
45°	2035.3	1890.5	1753.8	1636.4	1538.0	1466.9	1434.2	1426.0	1423.3	1428.7	1447.9
47.5°	1759.3	1609.1	1466.9	1322.2	1218.4	1147.5	1117.4	1106.3	1095.4	1106.3	1109.1
50°	1543.5	1387.8	1237.6	1092.8	983.5	920.6	882.3	866.0	863.3	863.3	868.8
52.5°	1346.8	1202.0	1051.8	904.3	789.5	729.4	693.9	685.7	674.8	685.7	685.7
55°	1161.0	1016.3	868.8	729.4	633.7	571.0	538.2	527.2	521.7	530.0	530.0
57.5°	958.9	835.9	699.4	573.7	478.1	434.4	409.7	396.2	393.4	398.9	393.4
60°	786.8	683.0	565.5	450.8	377.0	330.6	311.5	305.9	300.4	305.9	305.9
62.5°	622.8	535.5	439.8	352.4	289.6	256.8	234.8	234.8	232.2	232.2	234.8
65°	461.7	393.4	325.1	251.3	202.2	177.6	161.1	161.1	158.4	161.1	158.4
67.5°	336.0	289.6	234.8	183.1	144.8	131.2	120.2	112.0	117.5	112.0	109.3
70°	245.9	207.6	169.4	139.3	112.0	98.4	90.1	87.3	81.9	81.9	81.9
72.5°	164.0	139.3	114.7	90.1	73.8	60.1	57.4	51.9	46.4	49.1	54.7
75°	109.3	92.9	81.9	65.6	49.1	49.1	32.8	32.8	27.4	32.8	24.7
77.5°	76.5	62.9	49.1	40.9	32.8	30.0	21.9	21.9	19.2	19.2	19.2
80°	54.7	46.4	35.5	30.0	21.9	21.9	19.2	16.4	13.6	13.6	16.4
82.5°	32.8	24.7	24.7	21.9	13.6	10.9	8.2	10.9	5.5	5.5	5.5
85°	19.2	16.4	13.6	8.2	5.5	5.5	2.7	0.0	2.7	2.7	0.0
87.5°	10.9	5.5	5.5	2.7	0.0	2.7	2.7	0.0	0.0	0.0	5.5
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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CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9
2.5°	5627.8	5625.0	5630.4	5630.4	5646.8	5644.0	5652.2	5652.2	5646.8	5649.5	5660.4
5°	5646.8	5655.0	5671.4	5685.0	5709.6	5720.6	5734.3	5747.9	5750.6	5758.8	5767.0
7.5°	5646.8	5674.2	5693.2	5717.8	5750.6	5769.8	5799.7	5824.4	5835.3	5848.9	5865.3
10°	5635.8	5663.2	5698.7	5726.0	5767.0	5797.0	5827.1	5865.3	5881.8	5903.5	5925.5
12.5°	5614.0	5644.0	5682.2	5717.8	5764.2	5791.5	5829.8	5865.3	5890.0	5920.0	5944.6
15°	5581.2	5616.7	5652.2	5687.7	5736.9	5769.8	5805.2	5846.2	5870.8	5903.5	5925.5
17.5°	5529.3	5567.6	5600.4	5633.1	5679.5	5717.8	5750.6	5788.8	5813.5	5840.7	5870.8
20°	5466.4	5502.0	5537.5	5564.9	5611.3	5644.0	5679.5	5715.1	5734.3	5739.7	5786.2
22.5°	5387.3	5411.9	5439.1	5482.9	5510.2	5540.2	5573.1	5605.8	5625.0	5655.0	5671.4
25°	5256.0	5280.7	5310.7	5329.8	5362.6	5387.3	5420.0	5455.6	5466.4	5488.4	5504.7
27.5°	5073.1	5086.8	5100.4	5116.8	5135.9	5149.5	5168.7	5185.1	5196.1	5206.9	5217.8
30°	4783.4	4783.4	4783.4	4772.5	4780.7	4789.0	4791.7	4789.0	4789.0	4786.2	4786.2
32.5°	4401.0	4379.2	4354.6	4332.8	4324.6	4313.7	4308.1	4299.9	4286.4	4278.2	4280.9
35°	3884.7	3835.5	3805.6	3778.2	3756.4	3740.0	3731.8	3723.5	3720.8	3709.9	3699.0
37.5°	3240.0	3204.5	3182.6	3166.3	3147.1	3130.7	3133.4	3136.2	3144.3	3138.9	3141.6
40°	2557.0	2548.8	2557.0	2537.9	2532.5	2537.9	2551.5	2570.8	2581.7	2592.5	2611.7
42.5°	1945.0	1958.7	1977.9	1977.9	1986.1	1997.1	2013.3	2043.5	2059.8	2078.9	2100.9
45°	1464.3	1480.7	1505.3	1513.5	1519.0	1532.5	1551.8	1576.2	1587.2	1603.6	1622.8
47.5°	1128.3	1139.2	1152.8	1166.5	1180.1	1185.7	1204.7	1204.7	1218.4	1229.4	1234.8
50°	879.6	890.5	901.5	909.7	915.2	923.4	928.9	937.0	939.7	945.2	947.9
52.5°	688.4	702.1	702.1	707.5	715.8	723.9	721.3	723.9	726.6	726.6	734.8
55°	538.2	538.2	546.4	546.4	551.9	549.1	551.9	551.9	551.9	551.9	554.6
57.5°	401.5	404.3	412.5	407.0	404.3	409.7	404.3	409.7	407.0	412.5	404.3
60°	308.6	308.6	311.5	311.5	314.2	314.2	314.2	311.5	311.5	308.6	308.6
62.5°	232.2	234.8	237.8	234.8	234.8	234.8	232.2	232.2	229.5	226.7	226.7
65°	155.7	153.0	158.4	153.0	155.7	155.7	153.0	155.7	147.5	150.2	147.5
67.5°	112.0	109.3	106.6	109.3	106.6	103.8	103.8	106.6	109.3	101.1	101.1
70°	73.8	76.5	73.8	76.5	79.3	79.3	76.5	73.8	76.5	71.1	73.8
72.5°	46.4	46.4	46.4	46.4	46.4	49.1	49.1	49.1	43.7	43.7	40.9
75°	21.9	30.0	24.7	21.9	30.0	30.0	27.4	27.4	24.7	24.7	24.7
77.5°	21.9	16.4	16.4	16.4	16.4	16.4	16.4	16.4	13.6	16.4	13.6
80°	10.9	10.9	10.9	8.2	10.9	10.9	13.6	10.9	10.9	8.2	13.6
82.5°	5.5	5.5	5.5	0.0	2.7	5.5	5.5	2.7	5.5	5.5	2.7
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: P248862

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9
2.5°	5657.7	5655.0	5657.7	5660.4	5657.7	5655.0	5657.7	5660.4	5649.5	5646.8	5652.2
5°	5778.0	5778.0	5783.4	5786.2	5783.4	5778.0	5778.0	5767.0	5758.8	5750.6	5747.9
7.5°	5881.8	5887.3	5892.6	5895.3	5892.6	5887.3	5881.8	5865.3	5848.9	5835.3	5824.4
10°	5944.6	5952.8	5963.7	5969.1	5963.7	5952.8	5944.6	5925.5	5903.5	5881.8	5865.3
12.5°	5971.9	5980.1	5993.8	5991.1	5993.8	5980.1	5971.9	5944.6	5920.0	5890.0	5865.3
15°	5952.8	5963.7	5977.3	5982.8	5977.3	5963.7	5952.8	5925.5	5903.5	5870.8	5846.2
17.5°	5892.6	5909.0	5917.3	5925.5	5917.3	5909.0	5892.6	5870.8	5840.7	5813.5	5788.8
20°	5810.7	5821.7	5832.6	5835.3	5832.6	5821.7	5810.7	5786.2	5739.7	5734.3	5715.1
22.5°	5693.2	5701.5	5726.0	5717.8	5726.0	5701.5	5693.2	5671.4	5655.0	5625.0	5605.8
25°	5523.8	5532.0	5534.8	5537.5	5534.8	5532.0	5523.8	5504.7	5488.4	5466.4	5455.6
27.5°	5231.6	5231.6	5237.0	5239.8	5237.0	5231.6	5231.6	5217.8	5206.9	5196.1	5185.1
30°	4789.0	4789.0	4789.0	4802.7	4789.0	4789.0	4789.0	4786.2	4786.2	4789.0	4789.0
32.5°	4278.2	4272.6	4267.2	4272.6	4267.2	4272.6	4278.2	4280.9	4278.2	4286.4	4299.9
35°	3699.0	3696.3	3704.5	3693.5	3704.5	3696.3	3699.0	3699.0	3709.9	3720.8	3723.5
37.5°	3144.3	3138.9	3149.9	3138.9	3149.9	3138.9	3144.3	3141.6	3138.9	3144.3	3136.2
40°	2617.2	2622.6	2622.6	2644.6	2622.6	2622.6	2617.2	2611.7	2592.5	2581.7	2570.8
42.5°	2111.7	2128.1	2122.6	2139.1	2122.6	2128.1	2111.7	2100.9	2078.9	2059.8	2043.5
45°	1633.6	1644.6	1644.6	1650.0	1644.6	1644.6	1633.6	1622.8	1603.6	1587.2	1576.2
47.5°	1253.8	1253.8	1253.8	1256.8	1253.8	1253.8	1253.8	1234.8	1229.4	1218.4	1204.7
50°	953.4	956.1	958.9	961.6	958.9	956.1	953.4	947.9	945.2	939.7	937.0
52.5°	732.1	734.8	729.4	734.8	729.4	734.8	732.1	734.8	726.6	726.6	723.9
55°	554.6	551.9	554.6	557.2	554.6	551.9	554.6	554.6	551.9	551.9	551.9
57.5°	407.0	401.5	401.5	401.5	401.5	401.5	407.0	404.3	412.5	407.0	409.7
60°	303.2	305.9	305.9	308.6	305.9	305.9	303.2	308.6	308.6	311.5	311.5
62.5°	224.0	232.2	226.7	232.2	226.7	232.2	224.0	226.7	226.7	229.5	232.2
65°	144.8	144.8	144.8	147.5	144.8	144.8	144.8	147.5	150.2	147.5	155.7
67.5°	98.4	101.1	106.6	103.8	106.6	101.1	98.4	101.1	101.1	109.3	106.6
70°	79.3	71.1	71.1	79.3	71.1	71.1	79.3	73.8	71.1	76.5	73.8
72.5°	46.4	40.9	46.4	46.4	46.4	40.9	46.4	40.9	43.7	43.7	49.1
75°	24.7	21.9	19.2	27.4	19.2	21.9	24.7	24.7	24.7	24.7	27.4
77.5°	16.4	13.6	19.2	19.2	19.2	13.6	16.4	13.6	16.4	13.6	16.4
80°	8.2	10.9	8.2	13.6	8.2	10.9	8.2	13.6	8.2	10.9	10.9
82.5°	2.7	5.5	5.5	5.5	5.5	5.5	2.7	2.7	5.5	5.5	2.7
85°	0.0	5.5	2.7	2.7	2.7	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	2.7	0.0	0.0	2.7	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: P248862

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9
2.5°	5652.2	5644.0	5646.8	5630.4	5630.4	5625.0	5627.8	5614.0	5608.6	5603.1	5611.3
5°	5734.3	5720.6	5709.6	5685.0	5671.4	5655.0	5646.8	5625.0	5605.8	5589.4	5586.6
7.5°	5799.7	5769.8	5750.6	5717.8	5693.2	5674.2	5646.8	5616.7	5592.2	5570.2	5554.0
10°	5827.1	5797.0	5767.0	5726.0	5698.7	5663.2	5635.8	5597.6	5564.9	5534.8	5515.7
12.5°	5829.8	5791.5	5764.2	5717.8	5682.2	5644.0	5614.0	5570.2	5532.0	5502.0	5471.9
15°	5805.2	5769.8	5736.9	5687.7	5652.2	5616.7	5581.2	5534.8	5499.3	5463.8	5441.9
17.5°	5750.6	5717.8	5679.5	5633.1	5600.4	5567.6	5529.3	5491.1	5450.1	5411.9	5384.5
20°	5679.5	5644.0	5611.3	5564.9	5537.5	5502.0	5466.4	5425.5	5392.7	5354.5	5324.4
22.5°	5573.1	5540.2	5510.2	5482.9	5439.1	5411.9	5387.3	5340.9	5308.0	5272.5	5239.8
25°	5420.0	5387.3	5362.6	5329.8	5310.7	5280.7	5256.0	5215.1	5185.1	5152.3	5125.0
27.5°	5168.7	5149.5	5135.9	5116.8	5100.4	5086.8	5073.1	5040.2	5018.5	4988.4	4961.1
30°	4791.7	4789.0	4780.7	4772.5	4783.4	4783.4	4783.4	4778.0	4759.0	4737.0	4718.0
32.5°	4308.1	4313.7	4324.6	4332.8	4354.6	4379.2	4401.0	4411.9	4411.9	4398.4	4390.2
35°	3731.8	3740.0	3756.4	3778.2	3805.6	3835.5	3884.7	3895.7	3903.8	3903.8	3892.9
37.5°	3133.4	3130.7	3147.1	3166.3	3182.6	3204.5	3240.0	3248.2	3261.9	3256.4	3245.4
40°	2551.5	2537.9	2532.5	2537.9	2557.0	2548.8	2557.0	2551.5	2551.5	2532.5	2532.5
42.5°	2013.3	1997.1	1986.1	1977.9	1977.9	1958.7	1945.0	1931.5	1923.3	1909.5	1906.8
45°	1551.8	1532.5	1519.0	1513.5	1505.3	1480.7	1464.3	1447.9	1428.7	1423.3	1426.0
47.5°	1204.7	1185.7	1180.1	1166.5	1152.8	1139.2	1128.3	1109.1	1106.3	1095.4	1106.3
50°	928.9	923.4	915.2	909.7	901.5	890.5	879.6	868.8	863.3	863.3	866.0
52.5°	721.3	723.9	715.8	707.5	702.1	702.1	688.4	685.7	685.7	674.8	685.7
55°	551.9	549.1	551.9	546.4	546.4	538.2	538.2	530.0	530.0	521.7	527.2
57.5°	404.3	409.7	404.3	407.0	412.5	404.3	401.5	393.4	398.9	393.4	396.2
60°	314.2	314.2	314.2	311.5	311.5	308.6	308.6	305.9	305.9	300.4	305.9
62.5°	232.2	234.8	234.8	234.8	237.8	234.8	232.2	234.8	232.2	232.2	234.8
65°	153.0	155.7	155.7	153.0	158.4	153.0	155.7	158.4	161.1	158.4	161.1
67.5°	103.8	103.8	106.6	109.3	106.6	109.3	112.0	109.3	112.0	117.5	112.0
70°	76.5	79.3	79.3	76.5	73.8	76.5	73.8	81.9	81.9	81.9	87.3
72.5°	49.1	49.1	46.4	46.4	46.4	46.4	46.4	54.7	49.1	46.4	51.9
75°	27.4	30.0	30.0	21.9	24.7	30.0	21.9	24.7	32.8	27.4	32.8
77.5°	16.4	16.4	16.4	16.4	16.4	16.4	21.9	19.2	19.2	19.2	21.9
80°	13.6	10.9	10.9	8.2	10.9	10.9	10.9	16.4	13.6	13.6	16.4
82.5°	5.5	5.5	2.7	0.0	5.5	5.5	5.5	5.5	5.5	5.5	10.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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: P248862

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9
2.5°	5589.4	5589.4	5586.6	5581.2	5570.2	5570.2	5567.6	5559.4	5554.0	5551.1	5551.1
5°	5562.1	5551.1	5540.2	5510.2	5510.2	5504.7	5488.4	5477.3	5471.9	5458.3	5452.9
7.5°	5537.5	5504.7	5485.6	5466.4	5441.9	5430.9	5411.9	5403.6	5384.5	5370.9	5362.6
10°	5477.3	5455.6	5430.9	5400.9	5381.8	5359.9	5338.1	5321.7	5297.2	5283.4	5272.5
12.5°	5436.4	5403.6	5381.8	5349.0	5316.2	5297.2	5267.1	5248.0	5223.3	5196.1	5179.6
15°	5398.2	5362.6	5332.6	5297.2	5261.6	5239.8	5204.2	5182.4	5146.8	5119.6	5100.4
17.5°	5340.9	5310.7	5278.0	5234.3	5201.6	5174.2	5135.9	5108.6	5075.8	5040.2	5021.2
20°	5280.7	5245.2	5212.4	5168.7	5135.9	5103.1	5064.9	5034.9	4996.5	4963.8	4942.0
22.5°	5201.6	5160.5	5133.2	5089.5	5051.2	5015.8	4980.3	4944.7	4909.2	4881.8	4857.2
25°	5086.8	5043.0	5013.0	4977.5	4942.0	4914.7	4871.0	4849.1	4813.6	4789.0	4764.4
27.5°	4922.8	4890.0	4862.8	4827.3	4797.2	4775.3	4742.5	4720.8	4690.6	4668.7	4649.7
30°	4682.5	4655.2	4630.5	4595.0	4573.2	4554.1	4523.9	4504.9	4483.0	4458.3	4452.9
32.5°	4360.1	4338.2	4313.7	4289.1	4272.6	4261.7	4237.0	4226.2	4204.3	4190.6	4177.1
35°	3873.7	3854.7	3841.1	3830.1	3824.6	3827.3	3821.9	3832.8	3838.2	3835.5	3838.2
37.5°	3237.3	3226.4	3231.8	3240.0	3267.4	3302.9	3335.6	3384.7	3417.6	3450.4	3480.5
40°	2527.0	2535.3	2557.0	2606.2	2677.3	2756.5	2830.3	2923.1	3016.1	3081.6	3141.6
42.5°	1906.8	1931.5	1986.1	2057.1	2163.6	2281.1	2395.9	2532.5	2644.6	2753.7	2830.3
45°	1434.2	1466.9	1538.0	1636.4	1753.8	1890.5	2035.3	2188.2	2322.2	2434.1	2518.8
47.5°	1117.4	1147.5	1218.4	1322.2	1466.9	1609.1	1759.3	1917.8	2057.1	2166.4	2240.2
50°	882.3	920.6	983.5	1092.8	1237.6	1387.8	1543.5	1699.2	1830.4	1923.3	1988.9
52.5°	693.9	729.4	789.5	904.3	1051.8	1202.0	1346.8	1499.8	1614.5	1704.7	1748.4
55°	538.2	571.0	633.7	729.4	868.8	1016.3	1161.0	1292.2	1398.7	1464.3	1505.3
57.5°	409.7	434.4	478.1	573.7	699.4	835.9	958.9	1090.1	1172.0	1218.4	1245.7
60°	311.5	330.6	377.0	450.8	565.5	683.0	786.8	885.1	950.7	988.9	1016.3
62.5°	234.8	256.8	289.6	352.4	439.8	535.5	622.8	696.6	751.3	775.8	795.0
65°	161.1	177.6	202.2	251.3	325.1	393.4	461.7	516.3	551.9	579.2	590.1
67.5°	120.2	131.2	144.8	183.1	234.8	289.6	336.0	374.2	412.5	423.5	442.6
70°	90.1	98.4	112.0	139.3	169.4	207.6	245.9	267.7	295.0	314.2	319.7
72.5°	57.4	60.1	73.8	90.1	114.7	139.3	164.0	183.1	199.4	210.4	215.8
75°	32.8	49.1	49.1	65.6	81.9	92.9	109.3	122.9	131.2	139.3	139.3
77.5°	21.9	30.0	32.8	40.9	49.1	62.9	76.5	84.6	92.9	95.6	95.6
80°	19.2	21.9	21.9	30.0	35.5	46.4	54.7	57.4	62.9	65.6	71.1
82.5°	8.2	10.9	13.6	21.9	24.7	24.7	32.8	35.5	40.9	43.7	43.7
85°	2.7	5.5	5.5	8.2	13.6	16.4	19.2	21.9	24.7	24.7	27.4
87.5°	2.7	2.7	0.0	2.7	5.5	5.5	10.9	10.9	10.9	16.4	16.4
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: P248862

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9	5594.9
2.5°	5545.7	5548.4	5537.5	5534.8	5529.3	5532.0	5537.5
5°	5444.7	5447.4	5436.4	5425.5	5425.5	5422.7	5425.5
7.5°	5349.0	5351.8	5335.4	5329.8	5318.9	5321.7	5321.7
10°	5253.3	5253.3	5228.9	5226.1	5217.8	5215.1	5215.1
12.5°	5160.5	5152.3	5133.2	5122.3	5127.8	5111.3	5111.3
15°	5078.6	5064.9	5040.2	5032.1	5018.5	5013.0	5013.0
17.5°	4993.8	4983.0	4961.1	4944.7	4928.3	4925.6	4928.3
20°	4911.9	4901.0	4873.7	4862.8	4849.1	4849.1	4843.6
22.5°	4829.9	4819.0	4794.5	4786.2	4767.2	4767.2	4769.9
25°	4745.2	4737.0	4709.7	4704.3	4701.6	4690.6	4696.1
27.5°	4630.5	4625.0	4603.2	4595.0	4584.1	4581.4	4586.8
30°	4420.1	4411.9	4395.7	4387.5	4368.3	4371.0	4376.4
32.5°	4157.9	4147.0	4125.1	4116.9	4100.6	4095.0	4097.8
35°	3830.1	3821.9	3802.8	3802.8	3786.4	3780.9	3786.4
37.5°	3496.8	3504.9	3496.8	3504.9	3496.8	3494.0	3496.8
40°	3182.6	3212.7	3218.1	3248.2	3237.3	3253.6	3250.9
42.5°	2882.1	2931.3	2950.5	2975.0	2969.6	2980.5	2988.7
45°	2578.9	2619.9	2638.9	2655.4	2658.1	2663.6	2666.3
47.5°	2292.0	2324.8	2327.5	2346.6	2343.9	2343.9	2352.2
50°	2024.4	2046.2	2051.5	2065.3	2054.3	2048.9	2051.5
52.5°	1775.8	1797.5	1792.0	1797.5	1784.0	1778.5	1781.2
55°	1521.6	1532.5	1532.5	1532.5	1516.3	1516.3	1516.3
57.5°	1262.1	1264.9	1259.4	1262.1	1259.4	1243.0	1240.3
60°	1024.5	1024.5	1021.7	1024.5	1016.3	1008.1	1008.1
62.5°	800.4	805.9	816.8	805.9	800.4	805.9	797.7
65°	598.3	609.3	606.5	612.0	609.3	609.3	603.8
67.5°	450.8	453.4	456.2	459.0	459.0	459.0	459.0
70°	330.6	338.8	336.0	336.0	336.0	336.0	352.4
72.5°	221.3	232.2	229.5	234.8	234.8	240.5	234.8
75°	150.2	161.1	155.7	164.0	161.1	155.7	169.4
77.5°	101.1	106.6	109.3	112.0	109.3	106.6	109.3
80°	71.1	76.5	73.8	76.5	76.5	76.5	79.3
82.5°	43.7	51.9	49.1	51.9	49.1	51.9	51.9
85°	30.0	32.8	27.4	32.8	30.0	30.0	35.5
87.5°	19.2	16.4	16.4	19.2	16.4	19.2	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)