

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: P248844

Luminaire Tested: **LD8B120D010 ER8B120950 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248844
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 ER8B120950 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE 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: 10523.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

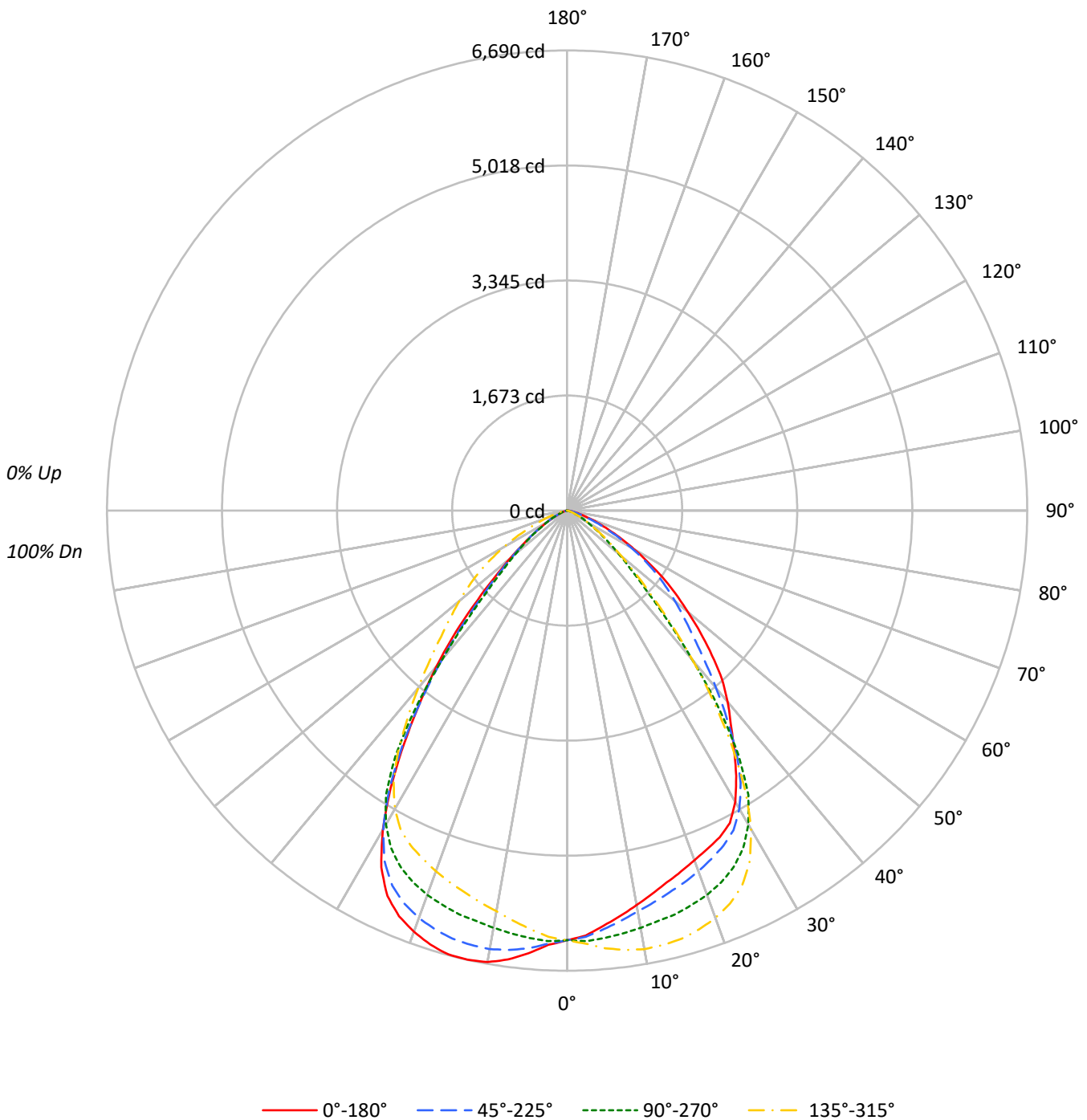
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	192641	192641	192641	192641
5°	187523	193092	199985	193092
10°	182336	192841	208695	192841
15°	178692	193984	213263	193984
20°	177475	195094	213812	195094
25°	178409	194703	210374	194703
30°	173996	187576	190945	187576
35°	159156	163632	155248	163632
40°	146122	113826	118862	113826
45°	129833	69439	80345	69439
50°	109896	46385	51513	46385
55°	91018	31649	33456	31649
60°	69419	21067	21259	21067
65°	49186	13126	12017	13126
70°	35478	8800	7979	8800
75°	22530	4373	3634	4373
80°	15716	3250	2699	3250
85°	14046	0	1061	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.6	5.7
10°-20°	1721.9	16.4
20°-30°	2607.3	24.8
30°-40°	2613.2	24.8
40°-50°	1640.9	15.6
50°-60°	874.4	8.3
60°-70°	359.6	3.4
70°-80°	95.0	0.9
80°-90°	16.1	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°	4923.8	46.8
0°-40°	7537.0	71.6
0°-60°	10052.3	95.5
0°-90°	10523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10523.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6247	6247	6247	6247	6247	
5°	6058	6238	6461	6238	6058	571
15°	5597	6076	6680	6076	5597	1583
25°	5244	5722	6183	5722	5244	2405
35°	4228	4347	4124	4347	4228	2649
45°	2977	1592	1842	1592	2977	2290
55°	1693	589	622	589	1693	1509
65°	674	180	165	180	674	699
75°	189	37	30	37	189	214
85°	40	0	3	0	40	44
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°	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2
2.5°	6183.1	6177.0	6174.0	6180.1	6183.1	6195.3	6192.3	6198.3	6198.3	6201.5	6207.5
5°	6058.1	6054.9	6058.1	6058.1	6070.3	6082.4	6079.4	6088.6	6094.6	6109.9	6116.0
7.5°	5942.2	5942.2	5939.1	5951.2	5957.4	5975.7	5972.6	5987.9	5997.1	6012.3	6033.6
10°	5823.2	5823.2	5826.2	5835.3	5838.5	5865.9	5865.9	5887.2	5899.4	5914.7	5942.2
12.5°	5707.3	5707.3	5725.6	5719.5	5731.6	5753.0	5762.1	5783.5	5801.8	5832.3	5859.8
15°	5597.4	5597.4	5603.6	5618.8	5627.9	5655.4	5670.6	5695.1	5716.4	5747.0	5786.6
17.5°	5502.9	5499.9	5502.9	5521.2	5539.5	5563.9	5576.1	5606.6	5627.9	5667.6	5704.3
20°	5408.3	5414.5	5414.5	5429.7	5441.9	5472.4	5484.5	5518.2	5542.6	5579.1	5621.9
22.5°	5326.0	5323.0	5323.0	5344.3	5353.5	5380.8	5393.0	5423.5	5451.0	5481.5	5521.2
25°	5243.6	5237.4	5249.8	5252.8	5258.8	5289.3	5298.5	5319.8	5347.3	5374.8	5414.5
27.5°	5121.6	5115.5	5118.5	5130.7	5139.9	5164.3	5170.4	5191.7	5213.1	5237.4	5271.1
30°	4886.6	4880.6	4877.6	4898.9	4908.1	4926.3	4935.5	4972.1	4978.2	5005.7	5030.0
32.5°	4575.5	4572.5	4578.7	4596.9	4606.0	4630.5	4642.7	4664.0	4679.2	4694.5	4718.9
35°	4227.9	4221.7	4227.9	4246.2	4246.2	4267.5	4276.7	4285.7	4282.7	4285.7	4279.7
37.5°	3904.5	3901.4	3904.5	3913.6	3904.5	3913.6	3904.5	3886.2	3852.7	3816.0	3779.4
40°	3630.0	3633.0	3614.8	3626.9	3593.3	3587.3	3553.7	3507.9	3440.9	3367.7	3264.0
42.5°	3337.2	3328.0	3315.8	3321.8	3294.5	3273.0	3218.1	3160.2	3074.7	2952.8	2827.7
45°	2977.2	2974.2	2968.0	2965.0	2946.7	2925.3	2879.5	2812.5	2717.9	2592.9	2443.3
47.5°	2626.4	2617.2	2617.2	2620.2	2598.9	2595.9	2559.2	2501.3	2419.0	2296.9	2141.4
50°	2290.8	2287.8	2293.9	2306.1	2290.8	2284.7	2260.4	2220.7	2147.5	2043.8	1897.3
52.5°	1988.8	1985.8	1991.9	2007.1	2001.0	2007.1	1982.8	1952.3	1903.4	1802.7	1674.7
55°	1693.0	1693.0	1693.0	1711.2	1711.2	1711.2	1699.0	1680.8	1635.0	1561.8	1442.9
57.5°	1384.9	1387.9	1406.2	1409.2	1406.2	1412.4	1409.2	1390.9	1360.5	1308.7	1217.1
60°	1125.6	1125.6	1134.8	1143.9	1140.8	1143.9	1143.9	1134.8	1104.3	1061.6	988.4
62.5°	890.7	899.9	893.7	899.9	912.0	899.9	893.7	887.7	866.3	838.8	777.8
65°	674.1	680.3	680.3	683.3	677.1	680.3	668.1	658.9	646.7	616.2	576.6
67.5°	512.5	512.5	512.5	512.5	509.4	506.4	503.4	494.2	472.8	460.7	417.9
70°	393.5	375.2	375.2	375.2	375.2	378.3	369.1	357.0	350.8	329.5	298.9
72.5°	262.3	268.4	262.3	262.3	256.3	259.3	247.1	240.9	234.9	222.7	204.4
75°	189.1	173.9	179.9	183.1	173.9	179.9	167.7	155.6	155.6	146.4	137.2
77.5°	122.0	119.0	122.0	125.1	122.0	119.0	112.9	106.7	106.7	103.7	94.5
80°	88.5	85.4	85.4	85.4	82.4	85.4	79.4	79.4	73.2	70.2	64.0
82.5°	58.0	58.0	54.9	58.0	54.9	58.0	48.8	48.8	48.8	45.7	39.7
85°	39.7	33.5	33.5	36.7	30.5	36.7	33.5	30.5	27.5	27.5	24.4
87.5°	18.3	21.3	18.3	21.3	18.3	18.3	21.3	18.3	18.3	12.2	12.2
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°	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2
2.5°	6216.7	6219.7	6219.7	6232.0	6238.0	6241.0	6241.0	6265.5	6256.3	6262.5	6268.5
5°	6128.3	6146.5	6152.6	6152.6	6186.2	6198.3	6210.5	6238.0	6241.0	6259.4	6280.7
7.5°	6042.8	6064.1	6076.4	6103.8	6125.1	6146.5	6183.1	6201.5	6219.7	6244.2	6271.5
10°	5960.4	5984.9	6009.2	6030.6	6064.1	6091.6	6116.0	6158.7	6180.1	6213.6	6250.2
12.5°	5881.2	5914.7	5936.0	5972.6	6009.2	6033.6	6070.3	6109.9	6143.5	6177.0	6219.7
15°	5811.0	5850.7	5875.0	5914.7	5954.4	5987.9	6027.6	6076.4	6100.8	6140.4	6180.1
17.5°	5734.7	5777.5	5808.0	5844.5	5893.4	5929.9	5963.5	6012.3	6042.8	6085.5	6131.3
20°	5655.4	5698.1	5734.7	5771.3	5820.2	5856.7	5896.4	5945.2	5978.7	6021.4	6058.1
22.5°	5560.9	5600.6	5640.1	5682.8	5731.6	5762.1	5808.0	5850.7	5887.2	5926.9	5963.5
25°	5438.8	5487.7	5518.2	5557.7	5597.4	5630.9	5679.8	5722.5	5753.0	5789.6	5823.2
27.5°	5295.5	5332.1	5356.5	5390.0	5429.7	5460.2	5496.7	5539.5	5570.0	5603.6	5627.9
30°	5051.4	5085.0	5106.4	5130.7	5170.4	5197.9	5228.4	5268.0	5289.3	5313.8	5335.1
32.5°	4731.1	4758.6	4770.8	4789.1	4816.6	4844.0	4868.4	4902.0	4911.1	4926.3	4926.3
35°	4267.5	4273.6	4270.5	4276.7	4288.9	4304.1	4325.4	4346.8	4358.9	4358.9	4349.9
37.5°	3724.5	3688.0	3648.3	3617.8	3608.6	3602.5	3614.8	3623.8	3636.1	3642.1	3626.9
40°	3160.2	3077.9	2989.4	2910.0	2855.1	2830.8	2821.6	2827.7	2827.7	2849.0	2849.0
42.5°	2675.2	2547.0	2416.0	2296.9	2217.6	2156.7	2129.2	2129.2	2132.2	2147.5	2156.7
45°	2272.6	2110.9	1958.3	1827.2	1717.4	1638.0	1601.5	1592.3	1589.3	1595.3	1616.7
47.5°	1964.5	1796.7	1638.0	1476.4	1360.5	1281.2	1247.7	1235.3	1223.2	1235.3	1238.5
50°	1723.5	1549.6	1381.9	1220.2	1098.1	1027.9	985.2	966.9	963.9	963.9	970.0
52.5°	1503.8	1342.2	1174.5	1009.7	881.5	814.5	774.8	765.6	753.5	765.6	765.6
55°	1296.4	1134.8	970.0	814.5	707.6	637.6	600.9	588.7	582.6	591.7	591.7
57.5°	1070.7	933.4	781.0	640.6	533.9	485.0	457.5	442.3	439.2	445.3	439.2
60°	878.5	762.6	631.4	503.4	421.0	369.1	347.8	341.6	335.5	341.6	341.6
62.5°	695.5	597.9	491.1	393.5	323.3	286.8	262.3	262.3	259.3	259.3	262.3
65°	515.5	439.2	363.0	280.6	225.7	198.3	179.9	179.9	176.9	179.9	176.9
67.5°	375.2	323.3	262.3	204.4	161.7	146.4	134.2	125.1	131.2	125.1	122.0
70°	274.6	231.8	189.1	155.6	125.1	109.9	100.7	97.6	91.5	91.5	91.5
72.5°	183.1	155.6	128.1	100.7	82.4	67.0	64.0	58.0	51.9	54.9	61.0
75°	122.0	103.7	91.5	73.2	54.9	54.9	36.7	36.7	30.5	36.7	27.5
77.5°	85.4	70.2	54.9	45.7	36.7	33.5	24.4	24.4	21.3	21.3	21.3
80°	61.0	51.9	39.7	33.5	24.4	24.4	21.3	18.3	15.2	15.2	18.3
82.5°	36.7	27.5	27.5	24.4	15.2	12.2	9.2	12.2	6.2	6.2	6.2
85°	21.3	18.3	15.2	9.2	6.2	6.2	3.0	0.0	3.0	3.0	0.0
87.5°	12.2	6.2	6.2	3.0	0.0	3.0	3.0	0.0	0.0	0.0	6.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2
2.5°	6283.8	6280.7	6286.8	6286.8	6305.2	6302.0	6311.2	6311.2	6305.2	6308.2	6320.4
5°	6305.2	6314.3	6332.6	6347.9	6375.2	6387.5	6402.7	6418.1	6421.1	6430.2	6439.4
7.5°	6305.2	6335.7	6357.0	6384.4	6421.1	6442.4	6475.9	6503.4	6515.6	6530.8	6549.1
10°	6292.9	6323.4	6363.1	6393.6	6439.4	6472.9	6506.4	6549.1	6567.5	6591.8	6616.3
12.5°	6268.5	6302.0	6344.7	6384.4	6436.3	6466.8	6509.5	6549.1	6576.6	6610.2	6637.7
15°	6232.0	6271.5	6311.2	6350.9	6405.7	6442.4	6482.1	6527.8	6555.3	6591.8	6616.3
17.5°	6174.0	6216.7	6253.3	6289.9	6341.7	6384.4	6421.1	6463.8	6491.3	6521.8	6555.3
20°	6103.8	6143.5	6183.1	6213.6	6265.5	6302.0	6341.7	6381.4	6402.7	6408.9	6460.7
22.5°	6015.4	6042.8	6073.3	6122.1	6152.6	6186.2	6222.8	6259.4	6280.7	6314.3	6332.6
25°	5868.9	5896.4	5929.9	5951.2	5987.9	6015.4	6051.9	6091.6	6103.8	6128.3	6146.5
27.5°	5664.6	5679.8	5695.1	5713.3	5734.7	5750.0	5771.3	5789.6	5801.8	5814.0	5826.2
30°	5341.2	5341.2	5341.2	5329.0	5338.1	5347.3	5350.3	5347.3	5347.3	5344.3	5344.3
32.5°	4914.1	4889.8	4862.3	4837.9	4828.8	4816.6	4810.4	4801.3	4786.1	4776.9	4779.9
35°	4337.6	4282.7	4249.2	4218.7	4194.3	4176.0	4166.8	4157.7	4154.7	4142.5	4130.2
37.5°	3617.8	3578.1	3553.7	3535.4	3514.1	3495.7	3498.7	3501.9	3510.9	3504.9	3507.9
40°	2855.1	2846.0	2855.1	2833.8	2827.7	2833.8	2849.0	2870.5	2882.6	2894.8	2916.2
42.5°	2171.9	2187.1	2208.5	2208.5	2217.6	2229.9	2248.1	2281.7	2299.9	2321.3	2345.8
45°	1635.0	1653.3	1680.8	1689.9	1696.0	1711.2	1732.7	1760.0	1772.2	1790.6	1811.9
47.5°	1259.8	1272.0	1287.2	1302.5	1317.7	1323.9	1345.2	1345.2	1360.5	1372.7	1378.7
50°	982.2	994.4	1006.6	1015.7	1021.9	1031.1	1037.1	1046.3	1049.3	1055.4	1058.4
52.5°	768.7	784.0	784.0	790.0	799.2	808.3	805.3	808.3	811.3	811.3	820.5
55°	600.9	600.9	610.1	610.1	616.2	613.1	616.2	616.2	616.2	616.2	619.2
57.5°	448.4	451.5	460.7	454.5	451.5	457.5	451.5	457.5	454.5	460.7	451.5
60°	344.7	344.7	347.8	347.8	350.8	350.8	350.8	347.8	347.8	344.7	344.7
62.5°	259.3	262.3	265.4	262.3	262.3	262.3	259.3	259.3	256.3	253.1	253.1
65°	173.9	170.9	176.9	170.9	173.9	173.9	170.9	173.9	164.7	167.7	164.7
67.5°	125.1	122.0	119.0	122.0	119.0	115.9	115.9	119.0	122.0	112.9	112.9
70°	82.4	85.4	82.4	85.4	88.5	88.5	85.4	82.4	85.4	79.4	82.4
72.5°	51.9	51.9	51.9	51.9	51.9	54.9	54.9	54.9	48.8	48.8	45.7
75°	24.4	33.5	27.5	24.4	33.5	33.5	30.5	30.5	27.5	27.5	27.5
77.5°	24.4	18.3	18.3	18.3	18.3	18.3	18.3	18.3	15.2	18.3	15.2
80°	12.2	12.2	12.2	9.2	12.2	12.2	15.2	12.2	12.2	9.2	15.2
82.5°	6.2	6.2	6.2	0.0	3.0	6.2	6.2	3.0	6.2	6.2	3.0
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: P248844

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2
2.5°	6317.4	6314.3	6317.4	6320.4	6317.4	6314.3	6317.4	6320.4	6308.2	6305.2	6311.2
5°	6451.6	6451.6	6457.6	6460.7	6457.6	6451.6	6451.6	6439.4	6430.2	6421.1	6418.1
7.5°	6567.5	6573.6	6579.6	6582.7	6579.6	6573.6	6567.5	6549.1	6530.8	6515.6	6503.4
10°	6637.7	6646.8	6659.0	6665.0	6659.0	6646.8	6637.7	6616.3	6591.8	6567.5	6549.1
12.5°	6668.2	6677.3	6692.5	6689.5	6692.5	6677.3	6668.2	6637.7	6610.2	6576.6	6549.1
15°	6646.8	6659.0	6674.2	6680.3	6674.2	6659.0	6646.8	6616.3	6591.8	6555.3	6527.8
17.5°	6579.6	6598.0	6607.1	6616.3	6607.1	6598.0	6579.6	6555.3	6521.8	6491.3	6463.8
20°	6488.1	6500.4	6512.6	6515.6	6512.6	6500.4	6488.1	6460.7	6408.9	6402.7	6381.4
22.5°	6357.0	6366.2	6393.6	6384.4	6393.6	6366.2	6357.0	6332.6	6314.3	6280.7	6259.4
25°	6167.8	6177.0	6180.1	6183.1	6180.1	6177.0	6167.8	6146.5	6128.3	6103.8	6091.6
27.5°	5841.5	5841.5	5847.5	5850.7	5847.5	5841.5	5841.5	5826.2	5814.0	5801.8	5789.6
30°	5347.3	5347.3	5347.3	5362.6	5347.3	5347.3	5347.3	5344.3	5344.3	5347.3	5347.3
32.5°	4776.9	4770.8	4764.7	4770.8	4764.7	4770.8	4776.9	4779.9	4776.9	4786.1	4801.3
35°	4130.2	4127.2	4136.3	4124.1	4136.3	4127.2	4130.2	4130.2	4142.5	4154.7	4157.7
37.5°	3510.9	3504.9	3517.1	3504.9	3517.1	3504.9	3510.9	3507.9	3504.9	3510.9	3501.9
40°	2922.3	2928.3	2928.3	2952.8	2928.3	2928.3	2922.3	2916.2	2894.8	2882.6	2870.5
42.5°	2357.9	2376.3	2370.1	2388.5	2370.1	2376.3	2357.9	2345.8	2321.3	2299.9	2281.7
45°	1824.1	1836.4	1836.4	1842.4	1836.4	1836.4	1824.1	1811.9	1790.6	1772.2	1760.0
47.5°	1400.1	1400.1	1400.1	1403.2	1400.1	1400.1	1400.1	1378.7	1372.7	1360.5	1345.2
50°	1064.6	1067.6	1070.7	1073.8	1070.7	1067.6	1064.6	1058.4	1055.4	1049.3	1046.3
52.5°	817.5	820.5	814.5	820.5	814.5	820.5	817.5	820.5	811.3	811.3	808.3
55°	619.2	616.2	619.2	622.3	619.2	616.2	619.2	619.2	616.2	616.2	616.2
57.5°	454.5	448.4	448.4	448.4	448.4	448.4	454.5	451.5	460.7	454.5	457.5
60°	338.6	341.6	341.6	344.7	341.6	341.6	338.6	344.7	344.7	347.8	347.8
62.5°	250.1	259.3	253.1	259.3	253.1	259.3	250.1	253.1	253.1	256.3	259.3
65°	161.7	161.7	161.7	164.7	161.7	161.7	161.7	164.7	167.7	164.7	173.9
67.5°	109.9	112.9	119.0	115.9	119.0	112.9	109.9	112.9	112.9	122.0	119.0
70°	88.5	79.4	79.4	88.5	79.4	79.4	88.5	82.4	79.4	85.4	82.4
72.5°	51.9	45.7	51.9	51.9	51.9	45.7	51.9	45.7	48.8	48.8	54.9
75°	27.5	24.4	21.3	30.5	21.3	24.4	27.5	27.5	27.5	27.5	30.5
77.5°	18.3	15.2	21.3	21.3	21.3	15.2	18.3	15.2	18.3	15.2	18.3
80°	9.2	12.2	9.2	15.2	9.2	12.2	9.2	15.2	9.2	12.2	12.2
82.5°	3.0	6.2	6.2	6.2	6.2	6.2	3.0	3.0	6.2	6.2	3.0
85°	0.0	6.2	3.0	3.0	3.0	6.2	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.0	0.0	3.0	0.0	0.0	3.0	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: P248844

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2
2.5°	6311.2	6302.0	6305.2	6286.8	6286.8	6280.7	6283.8	6268.5	6262.5	6256.3	6265.5
5°	6402.7	6387.5	6375.2	6347.9	6332.6	6314.3	6305.2	6280.7	6259.4	6241.0	6238.0
7.5°	6475.9	6442.4	6421.1	6384.4	6357.0	6335.7	6305.2	6271.5	6244.2	6219.7	6201.5
10°	6506.4	6472.9	6439.4	6393.6	6363.1	6323.4	6292.9	6250.2	6213.6	6180.1	6158.7
12.5°	6509.5	6466.8	6436.3	6384.4	6344.7	6302.0	6268.5	6219.7	6177.0	6143.5	6109.9
15°	6482.1	6442.4	6405.7	6350.9	6311.2	6271.5	6232.0	6180.1	6140.4	6100.8	6076.4
17.5°	6421.1	6384.4	6341.7	6289.9	6253.3	6216.7	6174.0	6131.3	6085.5	6042.8	6012.3
20°	6341.7	6302.0	6265.5	6213.6	6183.1	6143.5	6103.8	6058.1	6021.4	5978.7	5945.2
22.5°	6222.8	6186.2	6152.6	6122.1	6073.3	6042.8	6015.4	5963.5	5926.9	5887.2	5850.7
25°	6051.9	6015.4	5987.9	5951.2	5929.9	5896.4	5868.9	5823.2	5789.6	5753.0	5722.5
27.5°	5771.3	5750.0	5734.7	5713.3	5695.1	5679.8	5664.6	5627.9	5603.6	5570.0	5539.5
30°	5350.3	5347.3	5338.1	5329.0	5341.2	5341.2	5341.2	5335.1	5313.8	5289.3	5268.0
32.5°	4810.4	4816.6	4828.8	4837.9	4862.3	4889.8	4914.1	4926.3	4926.3	4911.1	4902.0
35°	4166.8	4176.0	4194.3	4218.7	4249.2	4282.7	4337.6	4349.9	4358.9	4358.9	4346.8
37.5°	3498.7	3495.7	3514.1	3535.4	3553.7	3578.1	3617.8	3626.9	3642.1	3636.1	3623.8
40°	2849.0	2833.8	2827.7	2833.8	2855.1	2846.0	2855.1	2849.0	2849.0	2827.7	2827.7
42.5°	2248.1	2229.9	2217.6	2208.5	2208.5	2187.1	2171.9	2156.7	2147.5	2132.2	2129.2
45°	1732.7	1711.2	1696.0	1689.9	1680.8	1653.3	1635.0	1616.7	1595.3	1589.3	1592.3
47.5°	1345.2	1323.9	1317.7	1302.5	1287.2	1272.0	1259.8	1238.5	1235.3	1223.2	1235.3
50°	1037.1	1031.1	1021.9	1015.7	1006.6	994.4	982.2	970.0	963.9	963.9	966.9
52.5°	805.3	808.3	799.2	790.0	784.0	784.0	768.7	765.6	765.6	753.5	765.6
55°	616.2	613.1	616.2	610.1	610.1	600.9	600.9	591.7	591.7	582.6	588.7
57.5°	451.5	457.5	451.5	454.5	460.7	451.5	448.4	439.2	445.3	439.2	442.3
60°	350.8	350.8	350.8	347.8	347.8	344.7	344.7	341.6	341.6	335.5	341.6
62.5°	259.3	262.3	262.3	262.3	265.4	262.3	259.3	262.3	259.3	259.3	262.3
65°	170.9	173.9	173.9	170.9	176.9	170.9	173.9	176.9	179.9	176.9	179.9
67.5°	115.9	115.9	119.0	122.0	119.0	122.0	125.1	122.0	125.1	131.2	125.1
70°	85.4	88.5	88.5	85.4	82.4	85.4	82.4	91.5	91.5	91.5	97.6
72.5°	54.9	54.9	51.9	51.9	51.9	51.9	51.9	61.0	54.9	51.9	58.0
75°	30.5	33.5	33.5	24.4	27.5	33.5	24.4	27.5	36.7	30.5	36.7
77.5°	18.3	18.3	18.3	18.3	18.3	18.3	24.4	21.3	21.3	21.3	24.4
80°	15.2	12.2	12.2	9.2	12.2	12.2	12.2	18.3	15.2	15.2	18.3
82.5°	6.2	6.2	3.0	0.0	6.2	6.2	6.2	6.2	6.2	6.2	12.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	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: P248844

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2
2.5°	6241.0	6241.0	6238.0	6232.0	6219.7	6219.7	6216.7	6207.5	6201.5	6198.3	6198.3
5°	6210.5	6198.3	6186.2	6152.6	6152.6	6146.5	6128.3	6116.0	6109.9	6094.6	6088.6
7.5°	6183.1	6146.5	6125.1	6103.8	6076.4	6064.1	6042.8	6033.6	6012.3	5997.1	5987.9
10°	6116.0	6091.6	6064.1	6030.6	6009.2	5984.9	5960.4	5942.2	5914.7	5899.4	5887.2
12.5°	6070.3	6033.6	6009.2	5972.6	5936.0	5914.7	5881.2	5859.8	5832.3	5801.8	5783.5
15°	6027.6	5987.9	5954.4	5914.7	5875.0	5850.7	5811.0	5786.6	5747.0	5716.4	5695.1
17.5°	5963.5	5929.9	5893.4	5844.5	5808.0	5777.5	5734.7	5704.3	5667.6	5627.9	5606.6
20°	5896.4	5856.7	5820.2	5771.3	5734.7	5698.1	5655.4	5621.9	5579.1	5542.6	5518.2
22.5°	5808.0	5762.1	5731.6	5682.8	5640.1	5600.6	5560.9	5521.2	5481.5	5451.0	5423.5
25°	5679.8	5630.9	5597.4	5557.7	5518.2	5487.7	5438.8	5414.5	5374.8	5347.3	5319.8
27.5°	5496.7	5460.2	5429.7	5390.0	5356.5	5332.1	5295.5	5271.1	5237.4	5213.1	5191.7
30°	5228.4	5197.9	5170.4	5130.7	5106.4	5085.0	5051.4	5030.0	5005.7	4978.2	4972.1
32.5°	4868.4	4844.0	4816.6	4789.1	4770.8	4758.6	4731.1	4718.9	4694.5	4679.2	4664.0
35°	4325.4	4304.1	4288.9	4276.7	4270.5	4273.6	4267.5	4279.7	4285.7	4282.7	4285.7
37.5°	3614.8	3602.5	3608.6	3617.8	3648.3	3688.0	3724.5	3779.4	3816.0	3852.7	3886.2
40°	2821.6	2830.8	2855.1	2910.0	2989.4	3077.9	3160.2	3264.0	3367.7	3440.9	3507.9
42.5°	2129.2	2156.7	2217.6	2296.9	2416.0	2547.0	2675.2	2827.7	2952.8	3074.7	3160.2
45°	1601.5	1638.0	1717.4	1827.2	1958.3	2110.9	2272.6	2443.3	2592.9	2717.9	2812.5
47.5°	1247.7	1281.2	1360.5	1476.4	1638.0	1796.7	1964.5	2141.4	2296.9	2419.0	2501.3
50°	985.2	1027.9	1098.1	1220.2	1381.9	1549.6	1723.5	1897.3	2043.8	2147.5	2220.7
52.5°	774.8	814.5	881.5	1009.7	1174.5	1342.2	1503.8	1674.7	1802.7	1903.4	1952.3
55°	600.9	637.6	707.6	814.5	970.0	1134.8	1296.4	1442.9	1561.8	1635.0	1680.8
57.5°	457.5	485.0	533.9	640.6	781.0	933.4	1070.7	1217.1	1308.7	1360.5	1390.9
60°	347.8	369.1	421.0	503.4	631.4	762.6	878.5	988.4	1061.6	1104.3	1134.8
62.5°	262.3	286.8	323.3	393.5	491.1	597.9	695.5	777.8	838.8	866.3	887.7
65°	179.9	198.3	225.7	280.6	363.0	439.2	515.5	576.6	616.2	646.7	658.9
67.5°	134.2	146.4	161.7	204.4	262.3	323.3	375.2	417.9	460.7	472.8	494.2
70°	100.7	109.9	125.1	155.6	189.1	231.8	274.6	298.9	329.5	350.8	357.0
72.5°	64.0	67.0	82.4	100.7	128.1	155.6	183.1	204.4	222.7	234.9	240.9
75°	36.7	54.9	54.9	73.2	91.5	103.7	122.0	137.2	146.4	155.6	155.6
77.5°	24.4	33.5	36.7	45.7	54.9	70.2	85.4	94.5	103.7	106.7	106.7
80°	21.3	24.4	24.4	33.5	39.7	51.9	61.0	64.0	70.2	73.2	79.4
82.5°	9.2	12.2	15.2	24.4	27.5	27.5	36.7	39.7	45.7	48.8	48.8
85°	3.0	6.2	6.2	9.2	15.2	18.3	21.3	24.4	27.5	27.5	30.5
87.5°	3.0	3.0	0.0	3.0	6.2	6.2	12.2	12.2	12.2	18.3	18.3
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: P248844

CATALOG NUMBER: LD8B120D010 ER8B120950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2	6247.2
2.5°	6192.3	6195.3	6183.1	6180.1	6174.0	6177.0	6183.1
5°	6079.4	6082.4	6070.3	6058.1	6058.1	6054.9	6058.1
7.5°	5972.6	5975.7	5957.4	5951.2	5939.1	5942.2	5942.2
10°	5865.9	5865.9	5838.5	5835.3	5826.2	5823.2	5823.2
12.5°	5762.1	5753.0	5731.6	5719.5	5725.6	5707.3	5707.3
15°	5670.6	5655.4	5627.9	5618.8	5603.6	5597.4	5597.4
17.5°	5576.1	5563.9	5539.5	5521.2	5502.9	5499.9	5502.9
20°	5484.5	5472.4	5441.9	5429.7	5414.5	5414.5	5408.3
22.5°	5393.0	5380.8	5353.5	5344.3	5323.0	5323.0	5326.0
25°	5298.5	5289.3	5258.8	5252.8	5249.8	5237.4	5243.6
27.5°	5170.4	5164.3	5139.9	5130.7	5118.5	5115.5	5121.6
30°	4935.5	4926.3	4908.1	4898.9	4877.6	4880.6	4886.6
32.5°	4642.7	4630.5	4606.0	4596.9	4578.7	4572.5	4575.5
35°	4276.7	4267.5	4246.2	4246.2	4227.9	4221.7	4227.9
37.5°	3904.5	3913.6	3904.5	3913.6	3904.5	3901.4	3904.5
40°	3553.7	3587.3	3593.3	3626.9	3614.8	3633.0	3630.0
42.5°	3218.1	3273.0	3294.5	3321.8	3315.8	3328.0	3337.2
45°	2879.5	2925.3	2946.7	2965.0	2968.0	2974.2	2977.2
47.5°	2559.2	2595.9	2598.9	2620.2	2617.2	2617.2	2626.4
50°	2260.4	2284.7	2290.8	2306.1	2293.9	2287.8	2290.8
52.5°	1982.8	2007.1	2001.0	2007.1	1991.9	1985.8	1988.8
55°	1699.0	1711.2	1711.2	1711.2	1693.0	1693.0	1693.0
57.5°	1409.2	1412.4	1406.2	1409.2	1406.2	1387.9	1384.9
60°	1143.9	1143.9	1140.8	1143.9	1134.8	1125.6	1125.6
62.5°	893.7	899.9	912.0	899.9	893.7	899.9	890.7
65°	668.1	680.3	677.1	683.3	680.3	680.3	674.1
67.5°	503.4	506.4	509.4	512.5	512.5	512.5	512.5
70°	369.1	378.3	375.2	375.2	375.2	375.2	393.5
72.5°	247.1	259.3	256.3	262.3	262.3	268.4	262.3
75°	167.7	179.9	173.9	183.1	179.9	173.9	189.1
77.5°	112.9	119.0	122.0	125.1	122.0	119.0	122.0
80°	79.4	85.4	82.4	85.4	85.4	85.4	88.5
82.5°	48.8	58.0	54.9	58.0	54.9	58.0	58.0
85°	33.5	36.7	30.5	36.7	33.5	33.5	39.7
87.5°	21.3	18.3	18.3	21.3	18.3	21.3	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)