

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: P248835

Luminaire Tested: **LD8B120D010 ER8B120940 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248835
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 ER8B120940 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10164.0 lumens
Efficiency: N/A
Efficacy: 85.9 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

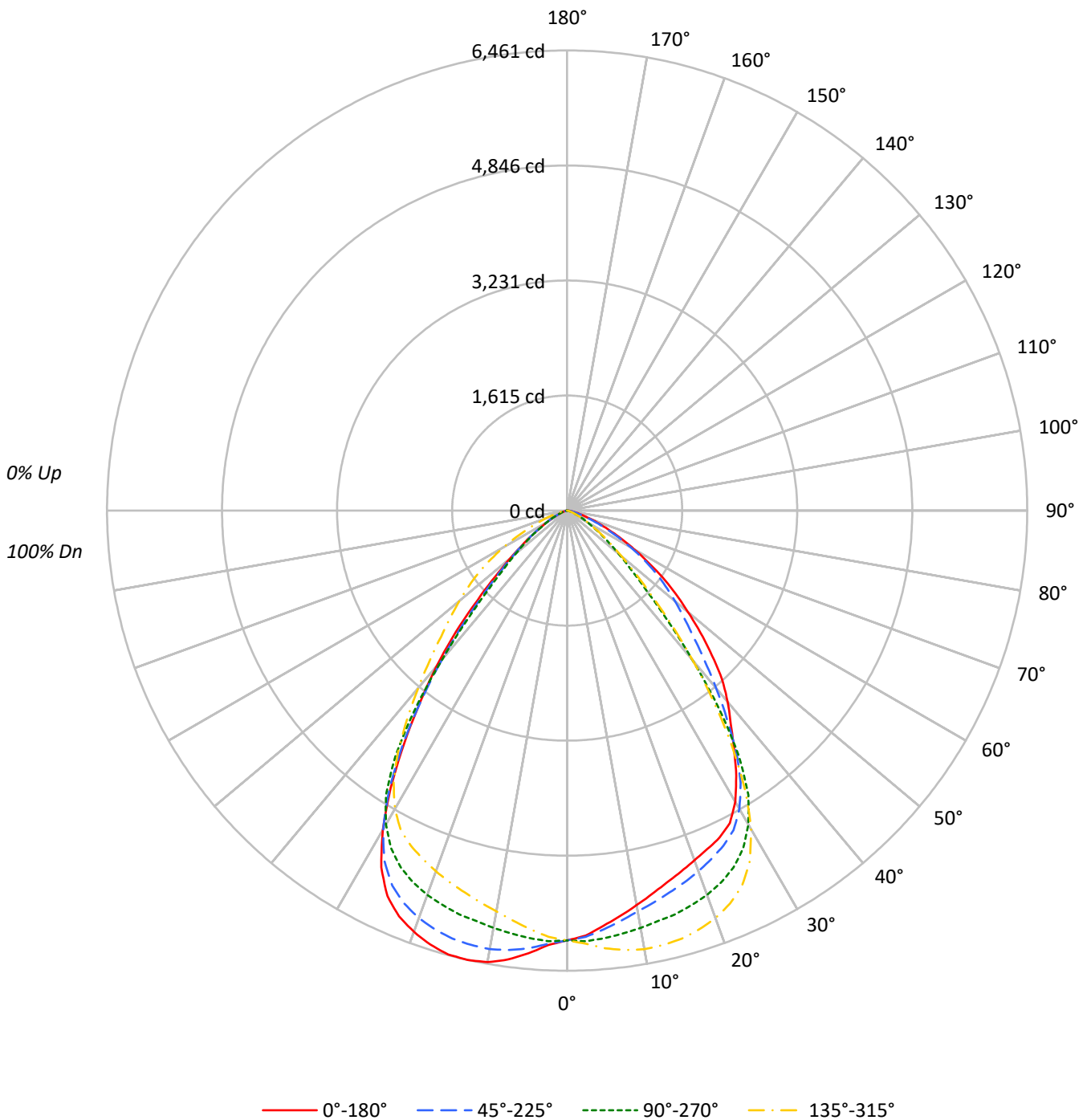
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	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°	186066	186066	186066	186066
5°	181125	186505	193163	186505
10°	176114	186260	201574	186260
15°	172598	187366	205987	187366
20°	171421	188439	206517	188439
25°	172322	188058	203199	188058
30°	168060	181174	184432	181174
35°	153724	158049	149952	158049
40°	141134	109942	114808	109942
45°	125402	67071	77607	67071
50°	106145	44802	49753	44802
55°	87911	30569	32311	30569
60°	67050	20352	20531	20352
65°	47507	12681	11609	12681
70°	34270	8493	7709	8493
75°	21755	4218	3515	4218
80°	15183	3143	2610	3143
85°	13551	0	1026	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.3	5.7
10°-20°	1663.1	16.4
20°-30°	2518.4	24.8
30°-40°	2524.0	24.8
40°-50°	1584.9	15.6
50°-60°	844.6	8.3
60°-70°	347.3	3.4
70°-80°	91.8	0.9
80°-90°	15.5	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°	4755.8	46.8
0°-40°	7279.8	71.6
0°-60°	9709.4	95.5
0°-90°	10164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10164.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6034	6034	6034	6034	6034	
5°	5851	6025	6240	6025	5851	552
15°	5406	5869	6452	5869	5406	1529
25°	5065	5527	5972	5527	5065	2323
35°	4084	4198	3983	4198	4084	2558
45°	2876	1538	1780	1538	2876	2212
55°	1635	569	601	569	1635	1458
65°	651	174	159	174	651	675
75°	183	35	30	35	183	207
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°	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0
2.5°	5972.2	5966.3	5963.3	5969.3	5972.2	5984.0	5981.0	5986.9	5986.9	5989.9	5995.7
5°	5851.4	5848.4	5851.4	5851.4	5863.2	5874.9	5872.0	5880.9	5886.7	5901.5	5907.3
7.5°	5739.5	5739.5	5736.4	5748.2	5754.1	5771.9	5768.8	5783.6	5792.5	5807.1	5827.8
10°	5624.5	5624.5	5627.4	5636.3	5639.3	5665.7	5665.7	5686.4	5698.1	5712.9	5739.5
12.5°	5512.6	5512.6	5530.3	5524.3	5536.1	5556.7	5565.6	5586.2	5603.9	5633.4	5659.9
15°	5406.5	5406.5	5412.4	5427.1	5435.9	5462.5	5477.2	5500.8	5521.4	5550.9	5589.2
17.5°	5315.1	5312.2	5315.1	5332.8	5350.6	5374.1	5385.8	5415.3	5435.9	5474.3	5509.7
20°	5223.8	5229.8	5229.8	5244.4	5256.2	5285.7	5297.4	5329.9	5353.5	5388.8	5430.1
22.5°	5144.3	5141.4	5141.4	5162.0	5170.8	5197.3	5209.0	5238.5	5265.1	5294.5	5332.8
25°	5064.7	5058.8	5070.7	5073.6	5079.4	5108.9	5117.7	5138.3	5164.9	5191.4	5229.8
27.5°	4946.8	4941.0	4943.9	4955.7	4964.5	4988.1	4994.0	5014.6	5035.2	5058.8	5091.3
30°	4719.9	4714.1	4711.2	4731.8	4740.7	4758.3	4767.1	4802.5	4808.3	4834.9	4858.4
32.5°	4419.4	4416.5	4422.5	4440.0	4448.9	4472.5	4484.3	4504.9	4519.6	4534.4	4557.9
35°	4083.6	4077.7	4083.6	4101.3	4101.3	4121.9	4130.8	4139.5	4136.6	4139.5	4133.7
37.5°	3771.3	3768.3	3771.3	3780.1	3771.3	3780.1	3771.3	3753.6	3721.3	3685.8	3650.4
40°	3506.1	3509.0	3491.4	3503.2	3470.7	3464.9	3432.5	3388.2	3323.5	3252.8	3152.6
42.5°	3223.3	3214.5	3202.7	3208.5	3182.1	3161.3	3108.3	3052.4	2969.8	2852.1	2731.2
45°	2875.6	2872.7	2866.8	2863.9	2846.1	2825.5	2781.3	2716.5	2625.2	2504.4	2360.0
47.5°	2536.8	2527.9	2527.9	2530.8	2510.2	2507.3	2471.9	2416.0	2336.4	2218.6	2068.3
50°	2212.6	2209.7	2215.7	2227.4	2212.6	2206.8	2183.3	2145.0	2074.2	1974.1	1832.6
52.5°	1921.0	1918.0	1924.0	1938.7	1932.7	1938.7	1915.1	1885.7	1838.5	1741.2	1617.5
55°	1635.2	1635.2	1635.2	1652.8	1652.8	1652.8	1641.1	1623.5	1579.2	1508.5	1393.7
57.5°	1337.6	1340.5	1358.3	1361.2	1358.3	1364.2	1361.2	1343.5	1314.1	1264.0	1175.6
60°	1087.2	1087.2	1096.1	1104.9	1101.9	1104.9	1104.9	1096.1	1066.6	1025.4	954.7
62.5°	860.3	869.2	863.2	869.2	880.9	869.2	863.2	857.4	836.8	810.2	751.3
65°	651.1	657.1	657.1	660.0	654.0	657.1	645.3	636.4	624.7	595.2	556.9
67.5°	495.0	495.0	495.0	495.0	492.0	489.1	486.2	477.3	456.7	444.9	403.6
70°	380.1	362.4	362.4	362.4	362.4	365.4	356.5	344.8	338.8	318.2	288.8
72.5°	253.3	259.3	253.3	253.3	247.5	250.4	238.7	232.7	226.9	215.1	197.4
75°	182.6	168.0	173.8	176.8	168.0	173.8	162.0	150.3	150.3	141.4	132.6
77.5°	117.9	115.0	117.9	120.8	117.9	115.0	109.0	103.1	103.1	100.2	91.3
80°	85.5	82.5	82.5	82.5	79.6	82.5	76.6	76.6	70.7	67.8	61.8
82.5°	56.0	56.0	53.0	56.0	53.0	56.0	47.2	47.2	47.2	44.1	38.3
85°	38.3	32.4	32.4	35.4	29.5	35.4	32.4	29.5	26.6	26.6	23.5
87.5°	17.7	20.6	17.7	20.6	17.7	17.7	20.6	17.7	17.7	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0
2.5°	6004.6	6007.5	6007.5	6019.4	6025.2	6028.1	6028.1	6051.8	6042.9	6048.8	6054.7
5°	5919.2	5936.8	5942.7	5942.7	5975.1	5986.9	5998.6	6025.2	6028.1	6045.8	6066.4
7.5°	5836.6	5857.2	5869.1	5895.6	5916.2	5936.8	5972.2	5989.9	6007.5	6031.1	6057.6
10°	5757.1	5780.7	5804.2	5824.8	5857.2	5883.8	5907.3	5948.5	5969.3	6001.7	6037.0
12.5°	5680.5	5712.9	5733.5	5768.8	5804.2	5827.8	5863.2	5901.5	5933.9	5966.3	6007.5
15°	5612.7	5651.1	5674.6	5712.9	5751.2	5783.6	5821.9	5869.1	5892.6	5931.0	5969.3
17.5°	5539.0	5580.4	5609.8	5645.1	5692.3	5727.6	5760.1	5807.1	5836.6	5877.8	5922.1
20°	5462.5	5503.7	5539.0	5574.4	5621.6	5656.9	5695.2	5742.4	5774.8	5816.0	5851.4
22.5°	5371.2	5409.5	5447.7	5488.9	5536.1	5565.6	5609.8	5651.1	5686.4	5724.7	5760.1
25°	5253.3	5300.5	5329.9	5368.1	5406.5	5438.8	5486.0	5527.2	5556.7	5592.1	5624.5
27.5°	5114.8	5150.2	5173.7	5206.1	5244.4	5273.9	5309.2	5350.6	5380.0	5412.4	5435.9
30°	4879.0	4911.5	4932.2	4955.7	4994.0	5020.6	5050.0	5088.2	5108.9	5132.5	5153.1
32.5°	4569.7	4596.2	4608.0	4625.7	4652.3	4678.7	4702.3	4734.7	4743.6	4758.3	4758.3
35°	4121.9	4127.8	4124.8	4130.8	4142.6	4157.2	4177.8	4198.5	4210.2	4210.2	4201.5
37.5°	3597.4	3562.1	3523.8	3494.4	3485.5	3479.6	3491.4	3500.2	3512.1	3517.9	3503.2
40°	3052.4	2972.9	2887.4	2810.7	2757.7	2734.2	2725.4	2731.2	2731.2	2751.8	2751.8
42.5°	2584.0	2460.1	2333.5	2218.6	2141.9	2083.1	2056.5	2056.5	2059.5	2074.2	2083.1
45°	2195.0	2038.8	1891.5	1764.9	1658.8	1582.1	1546.8	1538.0	1535.1	1540.9	1561.5
47.5°	1897.4	1735.4	1582.1	1426.0	1314.1	1237.5	1205.1	1193.2	1181.4	1193.2	1196.2
50°	1664.7	1496.7	1334.7	1178.5	1060.7	992.9	951.6	933.9	931.0	931.0	937.0
52.5°	1452.5	1296.4	1134.4	975.3	851.5	786.7	748.4	739.5	727.8	739.5	739.5
55°	1252.1	1096.1	937.0	786.7	683.5	615.8	580.4	568.6	562.7	571.6	571.6
57.5°	1034.2	901.5	754.3	618.7	515.7	468.5	441.9	427.2	424.2	430.2	424.2
60°	848.5	736.6	609.9	486.2	406.6	356.5	335.9	330.0	324.0	330.0	330.0
62.5°	671.7	577.5	474.3	380.1	312.3	277.0	253.3	253.3	250.4	250.4	253.3
65°	497.9	424.2	350.6	271.0	218.0	191.5	173.8	173.8	170.9	173.8	170.9
67.5°	362.4	312.3	253.3	197.4	156.2	141.4	129.6	120.8	126.7	120.8	117.9
70°	265.2	223.9	182.6	150.3	120.8	106.1	97.3	94.2	88.4	88.4	88.4
72.5°	176.8	150.3	123.7	97.3	79.6	64.8	61.8	56.0	50.1	53.0	58.9
75°	117.9	100.2	88.4	70.7	53.0	53.0	35.4	35.4	29.5	35.4	26.6
77.5°	82.5	67.8	53.0	44.1	35.4	32.4	23.5	23.5	20.6	20.6	20.6
80°	58.9	50.1	38.3	32.4	23.5	23.5	20.6	17.7	14.7	14.7	17.7
82.5°	35.4	26.6	26.6	23.5	14.7	11.8	8.9	11.8	5.9	5.9	5.9
85°	20.6	17.7	14.7	8.9	5.9	5.9	2.9	0.0	2.9	2.9	0.0
87.5°	11.8	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°	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0
2.5°	6069.5	6066.4	6072.4	6072.4	6090.1	6087.0	6095.9	6095.9	6090.1	6093.0	6104.7
5°	6090.1	6098.9	6116.5	6131.3	6157.7	6169.6	6184.3	6199.1	6202.0	6210.9	6219.7
7.5°	6090.1	6119.5	6140.2	6166.6	6202.0	6222.6	6255.0	6281.6	6293.3	6308.0	6325.7
10°	6078.2	6107.7	6146.0	6175.4	6219.7	6252.1	6284.5	6325.7	6343.4	6366.9	6390.6
12.5°	6054.7	6087.0	6128.3	6166.6	6216.7	6246.2	6287.4	6325.7	6352.3	6384.6	6411.2
15°	6019.4	6057.6	6095.9	6134.2	6187.2	6222.6	6260.9	6305.1	6331.6	6366.9	6390.6
17.5°	5963.3	6004.6	6040.0	6075.3	6125.4	6166.6	6202.0	6243.2	6269.8	6299.3	6331.6
20°	5895.6	5933.9	5972.2	6001.7	6051.8	6087.0	6125.4	6163.7	6184.3	6190.2	6240.3
22.5°	5810.2	5836.6	5866.1	5913.3	5942.7	5975.1	6010.5	6045.8	6066.4	6098.9	6116.5
25°	5668.7	5695.2	5727.6	5748.2	5783.6	5810.2	5845.5	5883.8	5895.6	5919.2	5936.8
27.5°	5471.3	5486.0	5500.8	5518.4	5539.0	5553.8	5574.4	5592.1	5603.9	5615.7	5627.4
30°	5158.9	5158.9	5158.9	5147.2	5156.0	5164.9	5167.8	5164.9	5164.9	5162.0	5162.0
32.5°	4746.5	4723.0	4696.4	4672.9	4664.0	4652.3	4646.3	4637.5	4622.8	4613.9	4616.9
35°	4189.6	4136.6	4104.2	4074.8	4051.2	4033.5	4024.7	4015.8	4012.9	4001.2	3989.3
37.5°	3494.4	3456.0	3432.5	3414.8	3394.2	3376.5	3379.4	3382.4	3391.1	3385.3	3388.2
40°	2757.7	2748.9	2757.7	2737.1	2731.2	2737.1	2751.8	2772.5	2784.3	2796.1	2816.7
42.5°	2097.8	2112.4	2133.2	2133.2	2141.9	2153.8	2171.4	2203.9	2221.5	2242.1	2265.7
45°	1579.2	1596.9	1623.5	1632.2	1638.2	1652.8	1673.6	1700.0	1711.8	1729.5	1750.1
47.5°	1216.9	1228.6	1243.3	1258.1	1272.8	1278.7	1299.3	1299.3	1314.1	1325.9	1331.7
50°	948.7	960.5	972.2	981.1	987.0	995.9	1001.7	1010.6	1013.5	1019.4	1022.3
52.5°	742.4	757.2	757.2	763.0	771.9	780.8	777.8	780.8	783.7	783.7	792.5
55°	580.4	580.4	589.3	589.3	595.2	592.2	595.2	595.2	595.2	595.2	598.1
57.5°	433.1	436.1	444.9	439.0	436.1	441.9	436.1	441.9	439.0	444.9	436.1
60°	332.9	332.9	335.9	335.9	338.8	338.8	338.8	335.9	335.9	332.9	332.9
62.5°	250.4	253.3	256.4	253.3	253.3	253.3	250.4	250.4	247.5	244.5	244.5
65°	168.0	165.1	170.9	165.1	168.0	168.0	165.1	168.0	159.1	162.0	159.1
67.5°	120.8	117.9	115.0	117.9	115.0	111.9	111.9	115.0	117.9	109.0	109.0
70°	79.6	82.5	79.6	82.5	85.5	85.5	82.5	79.6	82.5	76.6	79.6
72.5°	50.1	50.1	50.1	50.1	50.1	53.0	53.0	53.0	47.2	47.2	44.1
75°	23.5	32.4	26.6	23.5	32.4	32.4	29.5	29.5	26.6	26.6	26.6
77.5°	23.5	17.7	17.7	17.7	17.7	17.7	17.7	17.7	14.7	17.7	14.7
80°	11.8	11.8	11.8	8.9	11.8	11.8	14.7	11.8	11.8	8.9	14.7
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: P248835

CATALOG NUMBER: LD8B120D010 ER8B120940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0
2.5°	6101.8	6098.9	6101.8	6104.7	6101.8	6098.9	6101.8	6104.7	6093.0	6090.1	6095.9
5°	6231.5	6231.5	6237.3	6240.3	6237.3	6231.5	6231.5	6219.7	6210.9	6202.0	6199.1
7.5°	6343.4	6349.4	6355.2	6358.1	6355.2	6349.4	6343.4	6325.7	6308.0	6293.3	6281.6
10°	6411.2	6420.1	6431.8	6437.6	6431.8	6420.1	6411.2	6390.6	6366.9	6343.4	6325.7
12.5°	6440.7	6449.5	6464.2	6461.3	6464.2	6449.5	6440.7	6411.2	6384.6	6352.3	6325.7
15°	6420.1	6431.8	6446.5	6452.4	6446.5	6431.8	6420.1	6390.6	6366.9	6331.6	6305.1
17.5°	6355.2	6372.9	6381.7	6390.6	6381.7	6372.9	6355.2	6331.6	6299.3	6269.8	6243.2
20°	6266.8	6278.7	6290.4	6293.3	6290.4	6278.7	6266.8	6240.3	6190.2	6184.3	6163.7
22.5°	6140.2	6149.0	6175.4	6166.6	6175.4	6149.0	6140.2	6116.5	6098.9	6066.4	6045.8
25°	5957.4	5966.3	5969.3	5972.2	5969.3	5966.3	5957.4	5936.8	5919.2	5895.6	5883.8
27.5°	5642.2	5642.2	5648.0	5651.1	5648.0	5642.2	5642.2	5627.4	5615.7	5603.9	5592.1
30°	5164.9	5164.9	5164.9	5179.7	5164.9	5164.9	5164.9	5162.0	5162.0	5164.9	5164.9
32.5°	4613.9	4608.0	4602.2	4608.0	4602.2	4608.0	4613.9	4616.9	4613.9	4622.8	4637.5
35°	3989.3	3986.4	3995.2	3983.4	3995.2	3986.4	3989.3	3989.3	4001.2	4012.9	4015.8
37.5°	3391.1	3385.3	3397.1	3385.3	3397.1	3385.3	3391.1	3388.2	3385.3	3391.1	3382.4
40°	2822.6	2828.4	2828.4	2852.1	2828.4	2828.4	2822.6	2816.7	2796.1	2784.3	2772.5
42.5°	2277.5	2295.2	2289.3	2307.0	2289.3	2295.2	2277.5	2265.7	2242.1	2221.5	2203.9
45°	1761.8	1773.7	1773.7	1779.6	1773.7	1773.7	1761.8	1750.1	1729.5	1711.8	1700.0
47.5°	1352.3	1352.3	1352.3	1355.3	1352.3	1352.3	1352.3	1331.7	1325.9	1314.1	1299.3
50°	1028.3	1031.2	1034.2	1037.1	1034.2	1031.2	1028.3	1022.3	1019.4	1013.5	1010.6
52.5°	789.6	792.5	786.7	792.5	786.7	792.5	789.6	792.5	783.7	783.7	780.8
55°	598.1	595.2	598.1	601.0	598.1	595.2	598.1	598.1	595.2	595.2	595.2
57.5°	439.0	433.1	433.1	433.1	433.1	433.1	439.0	436.1	444.9	439.0	441.9
60°	327.1	330.0	330.0	332.9	330.0	330.0	327.1	332.9	332.9	335.9	335.9
62.5°	241.6	250.4	244.5	250.4	244.5	250.4	241.6	244.5	244.5	247.5	250.4
65°	156.2	156.2	156.2	159.1	156.2	156.2	156.2	159.1	162.0	159.1	168.0
67.5°	106.1	109.0	115.0	111.9	115.0	109.0	106.1	109.0	109.0	117.9	115.0
70°	85.5	76.6	76.6	85.5	76.6	76.6	85.5	79.6	76.6	82.5	79.6
72.5°	50.1	44.1	50.1	50.1	50.1	44.1	50.1	44.1	47.2	47.2	53.0
75°	26.6	23.5	20.6	29.5	20.6	23.5	26.6	26.6	26.6	26.6	29.5
77.5°	17.7	14.7	20.6	20.6	20.6	14.7	17.7	14.7	17.7	14.7	17.7
80°	8.9	11.8	8.9	14.7	8.9	11.8	8.9	14.7	8.9	11.8	11.8
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: P248835

CATALOG NUMBER: LD8B120D010 ER8B120940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0
2.5°	6095.9	6087.0	6090.1	6072.4	6072.4	6066.4	6069.5	6054.7	6048.8	6042.9	6051.8
5°	6184.3	6169.6	6157.7	6131.3	6116.5	6098.9	6090.1	6066.4	6045.8	6028.1	6025.2
7.5°	6255.0	6222.6	6202.0	6166.6	6140.2	6119.5	6090.1	6057.6	6031.1	6007.5	5989.9
10°	6284.5	6252.1	6219.7	6175.4	6146.0	6107.7	6078.2	6037.0	6001.7	5969.3	5948.5
12.5°	6287.4	6246.2	6216.7	6166.6	6128.3	6087.0	6054.7	6007.5	5966.3	5933.9	5901.5
15°	6260.9	6222.6	6187.2	6134.2	6095.9	6057.6	6019.4	5969.3	5931.0	5892.6	5869.1
17.5°	6202.0	6166.6	6125.4	6075.3	6040.0	6004.6	5963.3	5922.1	5877.8	5836.6	5807.1
20°	6125.4	6087.0	6051.8	6001.7	5972.2	5933.9	5895.6	5851.4	5816.0	5774.8	5742.4
22.5°	6010.5	5975.1	5942.7	5913.3	5866.1	5836.6	5810.2	5760.1	5724.7	5686.4	5651.1
25°	5845.5	5810.2	5783.6	5748.2	5727.6	5695.2	5668.7	5624.5	5592.1	5556.7	5527.2
27.5°	5574.4	5553.8	5539.0	5518.4	5500.8	5486.0	5471.3	5435.9	5412.4	5380.0	5350.6
30°	5167.8	5164.9	5156.0	5147.2	5158.9	5158.9	5158.9	5153.1	5132.5	5108.9	5088.2
32.5°	4646.3	4652.3	4664.0	4672.9	4696.4	4723.0	4746.5	4758.3	4758.3	4743.6	4734.7
35°	4024.7	4033.5	4051.2	4074.8	4104.2	4136.6	4189.6	4201.5	4210.2	4210.2	4198.5
37.5°	3379.4	3376.5	3394.2	3414.8	3432.5	3456.0	3494.4	3503.2	3517.9	3512.1	3500.2
40°	2751.8	2737.1	2731.2	2737.1	2757.7	2748.9	2757.7	2751.8	2751.8	2731.2	2731.2
42.5°	2171.4	2153.8	2141.9	2133.2	2133.2	2112.4	2097.8	2083.1	2074.2	2059.5	2056.5
45°	1673.6	1652.8	1638.2	1632.2	1623.5	1596.9	1579.2	1561.5	1540.9	1535.1	1538.0
47.5°	1299.3	1278.7	1272.8	1258.1	1243.3	1228.6	1216.9	1196.2	1193.2	1181.4	1193.2
50°	1001.7	995.9	987.0	981.1	972.2	960.5	948.7	937.0	931.0	931.0	933.9
52.5°	777.8	780.8	771.9	763.0	757.2	757.2	742.4	739.5	739.5	727.8	739.5
55°	595.2	592.2	595.2	589.3	589.3	580.4	580.4	571.6	571.6	562.7	568.6
57.5°	436.1	441.9	436.1	439.0	444.9	436.1	433.1	424.2	430.2	424.2	427.2
60°	338.8	338.8	338.8	335.9	335.9	332.9	332.9	330.0	330.0	324.0	330.0
62.5°	250.4	253.3	253.3	253.3	256.4	253.3	250.4	253.3	250.4	250.4	253.3
65°	165.1	168.0	168.0	165.1	170.9	165.1	168.0	170.9	173.8	170.9	173.8
67.5°	111.9	111.9	115.0	117.9	115.0	117.9	120.8	117.9	120.8	126.7	120.8
70°	82.5	85.5	85.5	82.5	79.6	82.5	79.6	88.4	88.4	88.4	94.2
72.5°	53.0	53.0	50.1	50.1	50.1	50.1	50.1	58.9	53.0	50.1	56.0
75°	29.5	32.4	32.4	23.5	26.6	32.4	23.5	26.6	35.4	29.5	35.4
77.5°	17.7	17.7	17.7	17.7	17.7	17.7	23.5	20.6	20.6	20.6	23.5
80°	14.7	11.8	11.8	8.9	11.8	11.8	11.8	17.7	14.7	14.7	17.7
82.5°	5.9	5.9	2.9	0.0	5.9	5.9	5.9	5.9	5.9	5.9	11.8
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: P248835

CATALOG NUMBER: LD8B120D010 ER8B120940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0
2.5°	6028.1	6028.1	6025.2	6019.4	6007.5	6007.5	6004.6	5995.7	5989.9	5986.9	5986.9
5°	5998.6	5986.9	5975.1	5942.7	5942.7	5936.8	5919.2	5907.3	5901.5	5886.7	5880.9
7.5°	5972.2	5936.8	5916.2	5895.6	5869.1	5857.2	5836.6	5827.8	5807.1	5792.5	5783.6
10°	5907.3	5883.8	5857.2	5824.8	5804.2	5780.7	5757.1	5739.5	5712.9	5698.1	5686.4
12.5°	5863.2	5827.8	5804.2	5768.8	5733.5	5712.9	5680.5	5659.9	5633.4	5603.9	5586.2
15°	5821.9	5783.6	5751.2	5712.9	5674.6	5651.1	5612.7	5589.2	5550.9	5521.4	5500.8
17.5°	5760.1	5727.6	5692.3	5645.1	5609.8	5580.4	5539.0	5509.7	5474.3	5435.9	5415.3
20°	5695.2	5656.9	5621.6	5574.4	5539.0	5503.7	5462.5	5430.1	5388.8	5353.5	5329.9
22.5°	5609.8	5565.6	5536.1	5488.9	5447.7	5409.5	5371.2	5332.8	5294.5	5265.1	5238.5
25°	5486.0	5438.8	5406.5	5368.1	5329.9	5300.5	5253.3	5229.8	5191.4	5164.9	5138.3
27.5°	5309.2	5273.9	5244.4	5206.1	5173.7	5150.2	5114.8	5091.3	5058.8	5035.2	5014.6
30°	5050.0	5020.6	4994.0	4955.7	4932.2	4911.5	4879.0	4858.4	4834.9	4808.3	4802.5
32.5°	4702.3	4678.7	4652.3	4625.7	4608.0	4596.2	4569.7	4557.9	4534.4	4519.6	4504.9
35°	4177.8	4157.2	4142.6	4130.8	4124.8	4127.8	4121.9	4133.7	4139.5	4136.6	4139.5
37.5°	3491.4	3479.6	3485.5	3494.4	3523.8	3562.1	3597.4	3650.4	3685.8	3721.3	3753.6
40°	2725.4	2734.2	2757.7	2810.7	2887.4	2972.9	3052.4	3152.6	3252.8	3323.5	3388.2
42.5°	2056.5	2083.1	2141.9	2218.6	2333.5	2460.1	2584.0	2731.2	2852.1	2969.8	3052.4
45°	1546.8	1582.1	1658.8	1764.9	1891.5	2038.8	2195.0	2360.0	2504.4	2625.2	2716.5
47.5°	1205.1	1237.5	1314.1	1426.0	1582.1	1735.4	1897.4	2068.3	2218.6	2336.4	2416.0
50°	951.6	992.9	1060.7	1178.5	1334.7	1496.7	1664.7	1832.6	1974.1	2074.2	2145.0
52.5°	748.4	786.7	851.5	975.3	1134.4	1296.4	1452.5	1617.5	1741.2	1838.5	1885.7
55°	580.4	615.8	683.5	786.7	937.0	1096.1	1252.1	1393.7	1508.5	1579.2	1623.5
57.5°	441.9	468.5	515.7	618.7	754.3	901.5	1034.2	1175.6	1264.0	1314.1	1343.5
60°	335.9	356.5	406.6	486.2	609.9	736.6	848.5	954.7	1025.4	1066.6	1096.1
62.5°	253.3	277.0	312.3	380.1	474.3	577.5	671.7	751.3	810.2	836.8	857.4
65°	173.8	191.5	218.0	271.0	350.6	424.2	497.9	556.9	595.2	624.7	636.4
67.5°	129.6	141.4	156.2	197.4	253.3	312.3	362.4	403.6	444.9	456.7	477.3
70°	97.3	106.1	120.8	150.3	182.6	223.9	265.2	288.8	318.2	338.8	344.8
72.5°	61.8	64.8	79.6	97.3	123.7	150.3	176.8	197.4	215.1	226.9	232.7
75°	35.4	53.0	53.0	70.7	88.4	100.2	117.9	132.6	141.4	150.3	150.3
77.5°	23.5	32.4	35.4	44.1	53.0	67.8	82.5	91.3	100.2	103.1	103.1
80°	20.6	23.5	23.5	32.4	38.3	50.1	58.9	61.8	67.8	70.7	76.6
82.5°	8.9	11.8	14.7	23.5	26.6	26.6	35.4	38.3	44.1	47.2	47.2
85°	2.9	5.9	5.9	8.9	14.7	17.7	20.6	23.5	26.6	26.6	29.5
87.5°	2.9	2.9	0.0	2.9	5.9	5.9	11.8	11.8	11.8	17.7	17.7
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: P248835

CATALOG NUMBER: LD8B120D010 ER8B120940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0	6034.0
2.5°	5981.0	5984.0	5972.2	5969.3	5963.3	5966.3	5972.2
5°	5872.0	5874.9	5863.2	5851.4	5851.4	5848.4	5851.4
7.5°	5768.8	5771.9	5754.1	5748.2	5736.4	5739.5	5739.5
10°	5665.7	5665.7	5639.3	5636.3	5627.4	5624.5	5624.5
12.5°	5565.6	5556.7	5536.1	5524.3	5530.3	5512.6	5512.6
15°	5477.2	5462.5	5435.9	5427.1	5412.4	5406.5	5406.5
17.5°	5385.8	5374.1	5350.6	5332.8	5315.1	5312.2	5315.1
20°	5297.4	5285.7	5256.2	5244.4	5229.8	5229.8	5223.8
22.5°	5209.0	5197.3	5170.8	5162.0	5141.4	5141.4	5144.3
25°	5117.7	5108.9	5079.4	5073.6	5070.7	5058.8	5064.7
27.5°	4994.0	4988.1	4964.5	4955.7	4943.9	4941.0	4946.8
30°	4767.1	4758.3	4740.7	4731.8	4711.2	4714.1	4719.9
32.5°	4484.3	4472.5	4448.9	4440.0	4422.5	4416.5	4419.4
35°	4130.8	4121.9	4101.3	4101.3	4083.6	4077.7	4083.6
37.5°	3771.3	3780.1	3771.3	3780.1	3771.3	3768.3	3771.3
40°	3432.5	3464.9	3470.7	3503.2	3491.4	3509.0	3506.1
42.5°	3108.3	3161.3	3182.1	3208.5	3202.7	3214.5	3223.3
45°	2781.3	2825.5	2846.1	2863.9	2866.8	2872.7	2875.6
47.5°	2471.9	2507.3	2510.2	2530.8	2527.9	2527.9	2536.8
50°	2183.3	2206.8	2212.6	2227.4	2215.7	2209.7	2212.6
52.5°	1915.1	1938.7	1932.7	1938.7	1924.0	1918.0	1921.0
55°	1641.1	1652.8	1652.8	1652.8	1635.2	1635.2	1635.2
57.5°	1361.2	1364.2	1358.3	1361.2	1358.3	1340.5	1337.6
60°	1104.9	1104.9	1101.9	1104.9	1096.1	1087.2	1087.2
62.5°	863.2	869.2	880.9	869.2	863.2	869.2	860.3
65°	645.3	657.1	654.0	660.0	657.1	657.1	651.1
67.5°	486.2	489.1	492.0	495.0	495.0	495.0	495.0
70°	356.5	365.4	362.4	362.4	362.4	362.4	380.1
72.5°	238.7	250.4	247.5	253.3	253.3	259.3	253.3
75°	162.0	173.8	168.0	176.8	173.8	168.0	182.6
77.5°	109.0	115.0	117.9	120.8	117.9	115.0	117.9
80°	76.6	82.5	79.6	82.5	82.5	82.5	85.5
82.5°	47.2	56.0	53.0	56.0	53.0	56.0	56.0
85°	32.4	35.4	29.5	35.4	32.4	32.4	38.3
87.5°	20.6	17.7	17.7	20.6	17.7	20.6	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)