

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: P249078

Luminaire Tested: **LD8B120D010 ER8B120930 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249078
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10075.6 lumens
Efficiency: N/A
Efficacy: 85.2 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

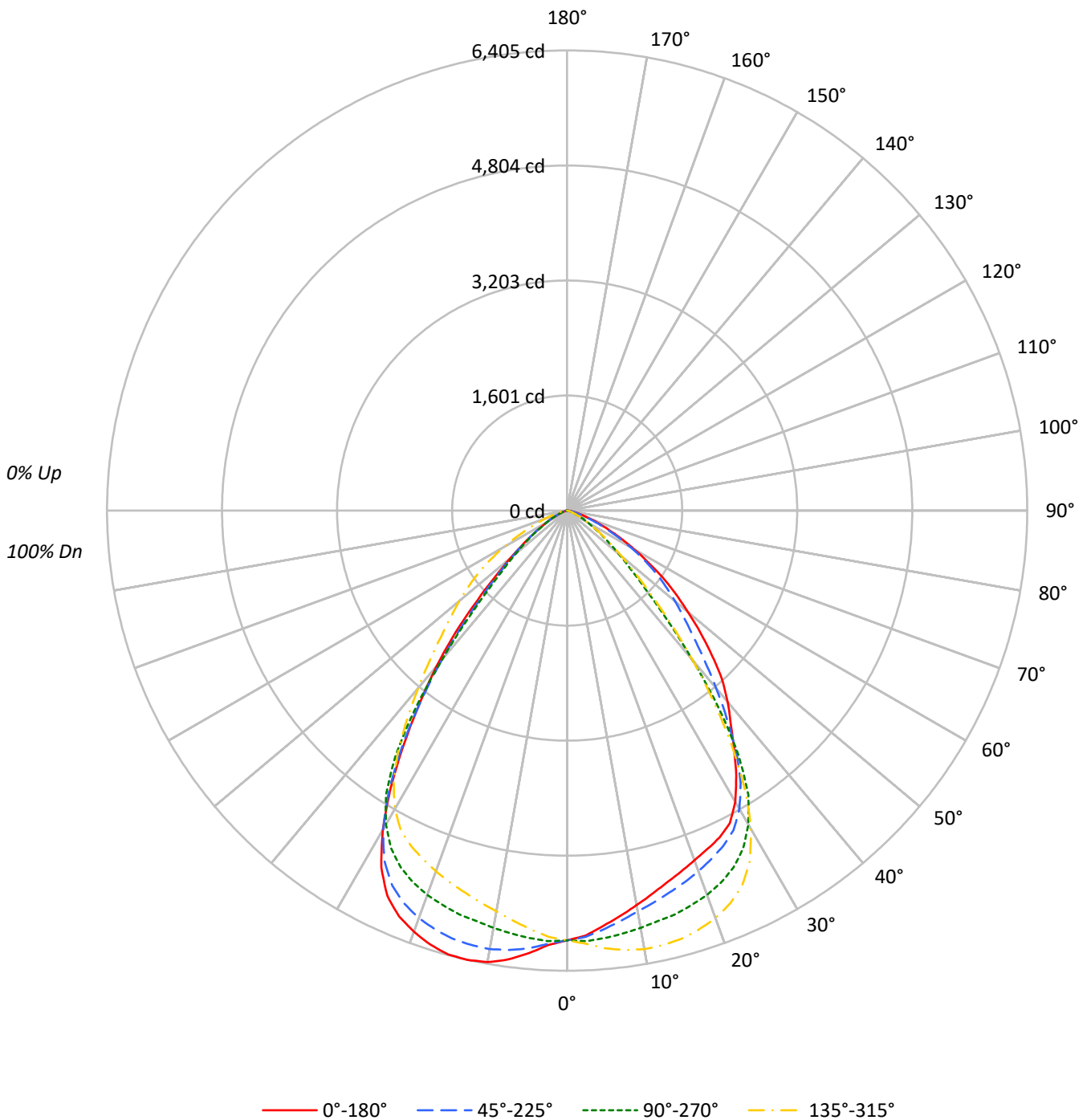
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	569.3	5.7
10°-20°	1648.7	16.4
20°-30°	2496.4	24.8
30°-40°	2502.0	24.8
40°-50°	1571.2	15.6
50°-60°	837.3	8.3
60°-70°	344.3	3.4
70°-80°	91.0	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°	4714.4	46.8
0°-40°	7216.5	71.6
0°-60°	9624.9	95.5
0°-90°	10075.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10075.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5982	5982	5982	5982	5982	
5°	5800	5973	6186	5973	5800	547
15°	5359	5818	6396	5818	5359	1516
25°	5021	5479	5920	5479	5021	2303
35°	4048	4162	3949	4162	4048	2536
45°	2851	1525	1764	1525	2851	2192
55°	1621	564	596	564	1621	1445
65°	646	172	158	172	646	670
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°	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5
2.5°	5920.2	5914.3	5911.5	5917.3	5920.2	5931.9	5929.0	5934.8	5934.8	5937.8	5943.5
5°	5800.5	5797.5	5800.5	5800.5	5812.2	5823.8	5820.9	5829.6	5835.5	5850.2	5855.9
7.5°	5689.5	5689.5	5686.5	5698.2	5704.1	5721.6	5718.7	5733.2	5742.1	5756.6	5777.1
10°	5575.5	5575.5	5578.4	5587.2	5590.2	5616.4	5616.4	5636.8	5648.5	5663.2	5689.5
12.5°	5464.7	5464.7	5482.1	5476.3	5488.0	5508.4	5517.1	5537.5	5555.1	5584.4	5610.7
15°	5359.4	5359.4	5365.3	5379.8	5388.6	5415.0	5429.5	5453.0	5473.4	5502.5	5540.5
17.5°	5268.9	5266.0	5268.9	5286.4	5304.0	5327.3	5339.0	5368.1	5388.6	5426.6	5461.7
20°	5178.3	5184.3	5184.3	5198.7	5210.4	5239.7	5251.3	5283.5	5306.9	5341.9	5382.8
22.5°	5099.5	5096.6	5096.6	5117.0	5125.8	5152.0	5163.7	5192.9	5219.3	5248.4	5286.4
25°	5020.6	5014.8	5026.6	5029.4	5035.2	5064.3	5073.2	5093.6	5119.9	5146.3	5184.3
27.5°	4903.8	4898.0	4900.9	4912.6	4921.3	4944.6	4950.6	4971.0	4991.5	5014.8	5047.0
30°	4678.8	4673.1	4670.2	4690.6	4699.5	4716.8	4725.6	4760.8	4766.5	4792.8	4816.2
32.5°	4381.0	4378.1	4384.0	4401.4	4410.1	4433.7	4445.3	4465.7	4480.3	4494.9	4518.3
35°	4048.0	4042.2	4048.0	4065.6	4065.6	4086.0	4094.8	4103.5	4100.6	4103.5	4097.7
37.5°	3738.5	3735.5	3738.5	3747.2	3738.5	3747.2	3738.5	3720.9	3688.9	3653.8	3618.7
40°	3475.5	3478.5	3461.1	3472.7	3440.5	3434.7	3402.7	3358.7	3294.5	3224.4	3125.1
42.5°	3195.3	3186.4	3174.8	3180.6	3154.4	3133.9	3081.3	3025.9	2944.0	2827.3	2707.4
45°	2850.6	2847.7	2841.8	2838.9	2821.3	2800.9	2757.1	2692.9	2602.3	2482.6	2339.4
47.5°	2514.7	2505.9	2505.9	2508.8	2488.4	2485.5	2450.4	2395.0	2316.1	2199.3	2050.3
50°	2193.3	2190.4	2196.4	2208.0	2193.3	2187.6	2164.3	2126.3	2056.3	1956.9	1816.6
52.5°	1904.2	1901.3	1907.3	1921.8	1915.9	1921.8	1898.5	1869.3	1822.5	1726.1	1603.5
55°	1621.0	1621.0	1621.0	1638.5	1638.5	1638.5	1626.8	1609.3	1565.5	1495.4	1381.5
57.5°	1326.0	1328.8	1346.4	1349.3	1346.4	1352.4	1349.3	1331.7	1302.7	1253.1	1165.4
60°	1077.7	1077.7	1086.5	1095.3	1092.3	1095.3	1095.3	1086.5	1057.3	1016.4	946.3
62.5°	852.9	861.6	855.7	861.6	873.3	861.6	855.7	849.9	829.5	803.2	744.8
65°	645.5	651.3	651.3	654.2	648.4	651.3	639.6	630.9	619.2	590.0	552.1
67.5°	490.8	490.8	490.8	490.8	487.7	484.8	481.9	473.2	452.8	441.1	400.1
70°	376.8	359.2	359.2	359.2	359.2	362.2	353.5	341.8	335.9	315.4	286.2
72.5°	251.1	257.0	251.1	251.1	245.4	248.3	236.6	230.7	224.9	213.2	195.7
75°	181.0	166.5	172.3	175.3	166.5	172.3	160.6	149.0	149.0	140.1	131.4
77.5°	116.8	114.0	116.8	119.7	116.8	114.0	108.1	102.2	102.2	99.3	90.6
80°	84.7	81.7	81.7	81.7	78.9	81.7	76.0	76.0	70.1	67.1	61.3
82.5°	55.5	55.5	52.6	55.5	52.6	55.5	46.7	46.7	46.7	43.7	38.0
85°	38.0	32.1	32.1	35.1	29.3	35.1	32.1	29.3	26.3	26.3	23.3
87.5°	17.6	20.4	17.6	20.4	17.6	17.6	20.4	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°	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5
2.5°	5952.3	5955.2	5955.2	5967.0	5972.8	5975.6	5975.6	5999.0	5990.3	5996.2	6001.9
5°	5867.7	5885.1	5891.0	5891.0	5923.1	5934.8	5946.5	5972.8	5975.6	5993.2	6013.6
7.5°	5785.8	5806.2	5818.0	5844.2	5864.7	5885.1	5920.2	5937.8	5955.2	5978.6	6004.9
10°	5707.0	5730.4	5753.8	5774.2	5806.2	5832.6	5855.9	5896.8	5917.3	5949.5	5984.5
12.5°	5631.1	5663.2	5683.6	5718.7	5753.8	5777.1	5812.2	5850.2	5882.2	5914.3	5955.2
15°	5563.9	5601.9	5625.2	5663.2	5701.2	5733.2	5771.2	5818.0	5841.3	5879.3	5917.3
17.5°	5490.8	5531.8	5561.1	5596.0	5642.8	5677.8	5709.9	5756.6	5785.8	5826.7	5870.6
20°	5415.0	5455.8	5490.8	5525.9	5572.7	5607.7	5645.7	5692.4	5724.5	5765.4	5800.5
22.5°	5324.4	5362.4	5400.3	5441.1	5488.0	5517.1	5561.1	5601.9	5636.8	5674.8	5709.9
25°	5207.6	5254.4	5283.5	5321.4	5359.4	5391.6	5438.3	5479.1	5508.4	5543.5	5575.5
27.5°	5070.3	5105.4	5128.7	5160.9	5198.7	5228.0	5263.0	5304.0	5333.2	5365.3	5388.6
30°	4836.6	4868.8	4889.2	4912.6	4950.6	4976.9	5006.0	5043.9	5064.3	5087.9	5108.3
32.5°	4530.0	4556.2	4567.9	4585.5	4611.8	4638.0	4661.5	4693.5	4702.3	4716.8	4716.8
35°	4086.0	4091.9	4089.0	4094.8	4106.6	4121.0	4141.5	4161.9	4173.6	4173.6	4165.0
37.5°	3566.1	3531.2	3493.1	3463.9	3455.1	3449.3	3461.1	3469.7	3481.5	3487.3	3472.7
40°	3025.9	2947.0	2862.2	2786.2	2733.8	2710.5	2701.6	2707.4	2707.4	2727.8	2727.8
42.5°	2561.5	2438.7	2313.2	2199.3	2123.3	2065.0	2038.7	2038.7	2041.6	2056.3	2065.0
45°	2176.0	2021.1	1875.0	1749.5	1644.3	1568.4	1533.4	1524.6	1521.8	1527.5	1547.9
47.5°	1880.9	1720.3	1568.4	1413.6	1302.7	1226.7	1194.6	1182.8	1171.1	1182.8	1185.8
50°	1650.2	1483.8	1323.1	1168.3	1051.4	984.2	943.3	925.8	922.9	922.9	928.7
52.5°	1439.8	1285.1	1124.5	966.8	844.0	779.9	741.9	733.1	721.5	733.1	733.1
55°	1241.3	1086.5	928.7	779.9	677.5	610.5	575.4	563.8	557.8	566.6	566.6
57.5°	1025.3	893.7	747.7	613.3	511.2	464.4	438.1	423.5	420.5	426.4	420.5
60°	841.2	730.2	604.6	481.9	403.1	353.5	333.0	327.1	321.2	327.1	327.1
62.5°	665.9	572.5	470.1	376.8	309.5	274.5	251.1	251.1	248.3	248.3	251.1
65°	493.6	420.5	347.5	268.7	216.1	189.8	172.3	172.3	169.4	172.3	169.4
67.5°	359.2	309.5	251.1	195.7	154.8	140.1	128.5	119.7	125.7	119.7	116.8
70°	262.9	222.0	181.0	149.0	119.7	105.1	96.4	93.4	87.7	87.7	87.7
72.5°	175.3	149.0	122.6	96.4	78.9	64.2	61.3	55.5	49.7	52.6	58.4
75°	116.8	99.3	87.7	70.1	52.6	52.6	35.1	35.1	29.3	35.1	26.3
77.5°	81.7	67.1	52.6	43.7	35.1	32.1	23.3	23.3	20.4	20.4	20.4
80°	58.4	49.7	38.0	32.1	23.3	23.3	20.4	17.6	14.6	14.6	17.6
82.5°	35.1	26.3	26.3	23.3	14.6	11.7	8.7	11.7	5.9	5.9	5.9
85°	20.4	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°	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5
2.5°	6016.6	6013.6	6019.5	6019.5	6037.0	6034.1	6042.9	6042.9	6037.0	6039.9	6051.6
5°	6037.0	6045.9	6063.3	6077.9	6104.2	6116.0	6130.5	6145.1	6148.0	6156.8	6165.6
7.5°	6037.0	6066.3	6086.7	6112.9	6148.0	6168.5	6200.6	6226.9	6238.6	6253.1	6270.6
10°	6025.3	6054.5	6092.5	6121.7	6165.6	6197.7	6229.7	6270.6	6288.2	6311.6	6335.0
12.5°	6001.9	6034.1	6074.9	6112.9	6162.6	6191.8	6232.6	6270.6	6297.0	6329.1	6355.4
15°	5967.0	6004.9	6042.9	6080.9	6133.3	6168.5	6206.4	6250.2	6276.6	6311.6	6335.0
17.5°	5911.5	5952.3	5987.4	6022.5	6072.0	6112.9	6148.0	6188.9	6215.3	6244.4	6276.6
20°	5844.2	5882.2	5920.2	5949.5	5999.0	6034.1	6072.0	6110.0	6130.5	6136.4	6186.0
22.5°	5759.6	5785.8	5815.1	5861.8	5891.0	5923.1	5958.2	5993.2	6013.6	6045.9	6063.3
25°	5619.3	5645.7	5677.8	5698.2	5733.2	5759.6	5794.6	5832.6	5844.2	5867.7	5885.1
27.5°	5423.7	5438.3	5453.0	5470.4	5490.8	5505.5	5525.9	5543.5	5555.1	5566.8	5578.4
30°	5114.0	5114.0	5114.0	5102.3	5111.2	5119.9	5122.9	5119.9	5119.9	5117.0	5117.0
32.5°	4705.2	4681.9	4655.5	4632.2	4623.5	4611.8	4605.9	4597.1	4582.5	4573.8	4576.7
35°	4153.2	4100.6	4068.6	4039.3	4016.0	3998.4	3989.6	3980.9	3978.0	3966.3	3954.6
37.5°	3463.9	3426.0	3402.7	3385.1	3364.7	3347.1	3350.0	3353.0	3361.7	3355.8	3358.7
40°	2733.8	2724.9	2733.8	2713.3	2707.4	2713.3	2727.8	2748.4	2760.0	2771.8	2792.2
42.5°	2079.6	2094.0	2114.7	2114.7	2123.3	2135.1	2152.5	2184.7	2202.1	2222.6	2246.0
45°	1565.5	1583.1	1609.3	1618.1	1623.9	1638.5	1659.0	1685.2	1696.9	1714.5	1734.9
47.5°	1206.3	1218.0	1232.4	1247.1	1261.7	1267.6	1288.0	1288.0	1302.7	1314.4	1320.1
50°	940.4	952.1	963.8	972.6	978.4	987.3	993.0	1001.7	1004.6	1010.6	1013.4
52.5°	735.9	750.6	750.6	756.5	765.2	773.9	771.0	773.9	776.9	776.9	785.6
55°	575.4	575.4	584.2	584.2	590.0	587.1	590.0	590.0	590.0	590.0	592.9
57.5°	429.3	432.3	441.1	435.2	432.3	438.1	432.3	438.1	435.2	441.1	432.3
60°	330.0	330.0	333.0	333.0	335.9	335.9	335.9	333.0	333.0	330.0	330.0
62.5°	248.3	251.1	254.1	251.1	251.1	251.1	248.3	248.3	245.4	242.4	242.4
65°	166.5	163.7	169.4	163.7	166.5	166.5	163.7	166.5	157.7	160.6	157.7
67.5°	119.7	116.8	114.0	116.8	114.0	111.0	111.0	114.0	116.8	108.1	108.1
70°	78.9	81.7	78.9	81.7	84.7	84.7	81.7	78.9	81.7	76.0	78.9
72.5°	49.7	49.7	49.7	49.7	49.7	52.6	52.6	52.6	46.7	46.7	43.7
75°	23.3	32.1	26.3	23.3	32.1	32.1	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: P249078

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5
2.5°	6048.7	6045.9	6048.7	6051.6	6048.7	6045.9	6048.7	6051.6	6039.9	6037.0	6042.9
5°	6177.3	6177.3	6183.0	6186.0	6183.0	6177.3	6177.3	6165.6	6156.8	6148.0	6145.1
7.5°	6288.2	6294.1	6299.9	6302.7	6299.9	6294.1	6288.2	6270.6	6253.1	6238.6	6226.9
10°	6355.4	6364.1	6375.8	6381.6	6375.8	6364.1	6355.4	6335.0	6311.6	6288.2	6270.6
12.5°	6384.7	6393.4	6408.0	6405.1	6408.0	6393.4	6384.7	6355.4	6329.1	6297.0	6270.6
15°	6364.1	6375.8	6390.4	6396.3	6390.4	6375.8	6364.1	6335.0	6311.6	6276.6	6250.2
17.5°	6299.9	6317.4	6326.3	6335.0	6326.3	6317.4	6299.9	6276.6	6244.4	6215.3	6188.9
20°	6212.2	6224.0	6235.7	6238.6	6235.7	6224.0	6212.2	6186.0	6136.4	6130.5	6110.0
22.5°	6086.7	6095.5	6121.7	6112.9	6121.7	6095.5	6086.7	6063.3	6045.9	6013.6	5993.2
25°	5905.5	5914.3	5917.3	5920.2	5917.3	5914.3	5905.5	5885.1	5867.7	5844.2	5832.6
27.5°	5593.1	5593.1	5598.8	5601.9	5598.8	5593.1	5593.1	5578.4	5566.8	5555.1	5543.5
30°	5119.9	5119.9	5119.9	5134.6	5119.9	5119.9	5119.9	5117.0	5117.0	5119.9	5119.9
32.5°	4573.8	4567.9	4562.1	4567.9	4562.1	4567.9	4573.8	4576.7	4573.8	4582.5	4597.1
35°	3954.6	3951.6	3960.5	3948.8	3960.5	3951.6	3954.6	3954.6	3966.3	3978.0	3980.9
37.5°	3361.7	3355.8	3367.5	3355.8	3367.5	3355.8	3361.7	3358.7	3355.8	3361.7	3353.0
40°	2798.0	2803.8	2803.8	2827.3	2803.8	2803.8	2798.0	2792.2	2771.8	2760.0	2748.4
42.5°	2257.7	2275.2	2269.4	2286.8	2269.4	2275.2	2257.7	2246.0	2222.6	2202.1	2184.7
45°	1746.5	1758.3	1758.3	1764.1	1758.3	1758.3	1746.5	1734.9	1714.5	1696.9	1685.2
47.5°	1340.5	1340.5	1340.5	1343.5	1340.5	1340.5	1340.5	1320.1	1314.4	1302.7	1288.0
50°	1019.3	1022.2	1025.3	1028.1	1025.3	1022.2	1019.3	1013.4	1010.6	1004.6	1001.7
52.5°	782.7	785.6	779.9	785.6	779.9	785.6	782.7	785.6	776.9	776.9	773.9
55°	592.9	590.0	592.9	595.8	592.9	590.0	592.9	592.9	590.0	590.0	590.0
57.5°	435.2	429.3	429.3	429.3	429.3	429.3	435.2	432.3	441.1	435.2	438.1
60°	324.2	327.1	327.1	330.0	327.1	327.1	324.2	330.0	330.0	333.0	333.0
62.5°	239.4	248.3	242.4	248.3	242.4	248.3	239.4	242.4	242.4	245.4	248.3
65°	154.8	154.8	154.8	157.7	154.8	154.8	154.8	157.7	160.6	157.7	166.5
67.5°	105.1	108.1	114.0	111.0	114.0	108.1	105.1	108.1	108.1	116.8	114.0
70°	84.7	76.0	76.0	84.7	76.0	76.0	84.7	78.9	76.0	81.7	78.9
72.5°	49.7	43.7	49.7	49.7	49.7	43.7	49.7	43.7	46.7	46.7	52.6
75°	26.3	23.3	20.4	29.3	20.4	23.3	26.3	26.3	26.3	26.3	29.3
77.5°	17.6	14.6	20.4	20.4	20.4	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: P249078

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5
2.5°	6042.9	6034.1	6037.0	6019.5	6019.5	6013.6	6016.6	6001.9	5996.2	5990.3	5999.0
5°	6130.5	6116.0	6104.2	6077.9	6063.3	6045.9	6037.0	6013.6	5993.2	5975.6	5972.8
7.5°	6200.6	6168.5	6148.0	6112.9	6086.7	6066.3	6037.0	6004.9	5978.6	5955.2	5937.8
10°	6229.7	6197.7	6165.6	6121.7	6092.5	6054.5	6025.3	5984.5	5949.5	5917.3	5896.8
12.5°	6232.6	6191.8	6162.6	6112.9	6074.9	6034.1	6001.9	5955.2	5914.3	5882.2	5850.2
15°	6206.4	6168.5	6133.3	6080.9	6042.9	6004.9	5967.0	5917.3	5879.3	5841.3	5818.0
17.5°	6148.0	6112.9	6072.0	6022.5	5987.4	5952.3	5911.5	5870.6	5826.7	5785.8	5756.6
20°	6072.0	6034.1	5999.0	5949.5	5920.2	5882.2	5844.2	5800.5	5765.4	5724.5	5692.4
22.5°	5958.2	5923.1	5891.0	5861.8	5815.1	5785.8	5759.6	5709.9	5674.8	5636.8	5601.9
25°	5794.6	5759.6	5733.2	5698.2	5677.8	5645.7	5619.3	5575.5	5543.5	5508.4	5479.1
27.5°	5525.9	5505.5	5490.8	5470.4	5453.0	5438.3	5423.7	5388.6	5365.3	5333.2	5304.0
30°	5122.9	5119.9	5111.2	5102.3	5114.0	5114.0	5114.0	5108.3	5087.9	5064.3	5043.9
32.5°	4605.9	4611.8	4623.5	4632.2	4655.5	4681.9	4705.2	4716.8	4716.8	4702.3	4693.5
35°	3989.6	3998.4	4016.0	4039.3	4068.6	4100.6	4153.2	4165.0	4173.6	4173.6	4161.9
37.5°	3350.0	3347.1	3364.7	3385.1	3402.7	3426.0	3463.9	3472.7	3487.3	3481.5	3469.7
40°	2727.8	2713.3	2707.4	2713.3	2733.8	2724.9	2733.8	2727.8	2727.8	2707.4	2707.4
42.5°	2152.5	2135.1	2123.3	2114.7	2114.7	2094.0	2079.6	2065.0	2056.3	2041.6	2038.7
45°	1659.0	1638.5	1623.9	1618.1	1609.3	1583.1	1565.5	1547.9	1527.5	1521.8	1524.6
47.5°	1288.0	1267.6	1261.7	1247.1	1232.4	1218.0	1206.3	1185.8	1182.8	1171.1	1182.8
50°	993.0	987.3	978.4	972.6	963.8	952.1	940.4	928.7	922.9	922.9	925.8
52.5°	771.0	773.9	765.2	756.5	750.6	750.6	735.9	733.1	733.1	721.5	733.1
55°	590.0	587.1	590.0	584.2	584.2	575.4	575.4	566.6	566.6	557.8	563.8
57.5°	432.3	438.1	432.3	435.2	441.1	432.3	429.3	420.5	426.4	420.5	423.5
60°	335.9	335.9	335.9	333.0	333.0	330.0	330.0	327.1	327.1	321.2	327.1
62.5°	248.3	251.1	251.1	251.1	254.1	251.1	248.3	251.1	248.3	248.3	251.1
65°	163.7	166.5	166.5	163.7	169.4	163.7	166.5	169.4	172.3	169.4	172.3
67.5°	111.0	111.0	114.0	116.8	114.0	116.8	119.7	116.8	119.7	125.7	119.7
70°	81.7	84.7	84.7	81.7	78.9	81.7	78.9	87.7	87.7	87.7	93.4
72.5°	52.6	52.6	49.7	49.7	49.7	49.7	49.7	58.4	52.6	49.7	55.5
75°	29.3	32.1	32.1	23.3	26.3	32.1	23.3	26.3	35.1	29.3	35.1
77.5°	17.6	17.6	17.6	17.6	17.6	17.6	23.3	20.4	20.4	20.4	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: P249078

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5
2.5°	5975.6	5975.6	5972.8	5967.0	5955.2	5955.2	5952.3	5943.5	5937.8	5934.8	5934.8
5°	5946.5	5934.8	5923.1	5891.0	5891.0	5885.1	5867.7	5855.9	5850.2	5835.5	5829.6
7.5°	5920.2	5885.1	5864.7	5844.2	5818.0	5806.2	5785.8	5777.1	5756.6	5742.1	5733.2
10°	5855.9	5832.6	5806.2	5774.2	5753.8	5730.4	5707.0	5689.5	5663.2	5648.5	5636.8
12.5°	5812.2	5777.1	5753.8	5718.7	5683.6	5663.2	5631.1	5610.7	5584.4	5555.1	5537.5
15°	5771.2	5733.2	5701.2	5663.2	5625.2	5601.9	5563.9	5540.5	5502.5	5473.4	5453.0
17.5°	5709.9	5677.8	5642.8	5596.0	5561.1	5531.8	5490.8	5461.7	5426.6	5388.6	5368.1
20°	5645.7	5607.7	5572.7	5525.9	5490.8	5455.8	5415.0	5382.8	5341.9	5306.9	5283.5
22.5°	5561.1	5517.1	5488.0	5441.1	5400.3	5362.4	5324.4	5286.4	5248.4	5219.3	5192.9
25°	5438.3	5391.6	5359.4	5321.4	5283.5	5254.4	5207.6	5184.3	5146.3	5119.9	5093.6
27.5°	5263.0	5228.0	5198.7	5160.9	5128.7	5105.4	5070.3	5047.0	5014.8	4991.5	4971.0
30°	5006.0	4976.9	4950.6	4912.6	4889.2	4868.8	4836.6	4816.2	4792.8	4766.5	4760.8
32.5°	4661.5	4638.0	4611.8	4585.5	4567.9	4556.2	4530.0	4518.3	4494.9	4480.3	4465.7
35°	4141.5	4121.0	4106.6	4094.8	4089.0	4091.9	4086.0	4097.7	4103.5	4100.6	4103.5
37.5°	3461.1	3449.3	3455.1	3463.9	3493.1	3531.2	3566.1	3618.7	3653.8	3688.9	3720.9
40°	2701.6	2710.5	2733.8	2786.2	2862.2	2947.0	3025.9	3125.1	3224.4	3294.5	3358.7
42.5°	2038.7	2065.0	2123.3	2199.3	2313.2	2438.7	2561.5	2707.4	2827.3	2944.0	3025.9
45°	1533.4	1568.4	1644.3	1749.5	1875.0	2021.1	2176.0	2339.4	2482.6	2602.3	2692.9
47.5°	1194.6	1226.7	1302.7	1413.6	1568.4	1720.3	1880.9	2050.3	2199.3	2316.1	2395.0
50°	943.3	984.2	1051.4	1168.3	1323.1	1483.8	1650.2	1816.6	1956.9	2056.3	2126.3
52.5°	741.9	779.9	844.0	966.8	1124.5	1285.1	1439.8	1603.5	1726.1	1822.5	1869.3
55°	575.4	610.5	677.5	779.9	928.7	1086.5	1241.3	1381.5	1495.4	1565.5	1609.3
57.5°	438.1	464.4	511.2	613.3	747.7	893.7	1025.3	1165.4	1253.1	1302.7	1331.7
60°	333.0	353.5	403.1	481.9	604.6	730.2	841.2	946.3	1016.4	1057.3	1086.5
62.5°	251.1	274.5	309.5	376.8	470.1	572.5	665.9	744.8	803.2	829.5	849.9
65°	172.3	189.8	216.1	268.7	347.5	420.5	493.6	552.1	590.0	619.2	630.9
67.5°	128.5	140.1	154.8	195.7	251.1	309.5	359.2	400.1	441.1	452.8	473.2
70°	96.4	105.1	119.7	149.0	181.0	222.0	262.9	286.2	315.4	335.9	341.8
72.5°	61.3	64.2	78.9	96.4	122.6	149.0	175.3	195.7	213.2	224.9	230.7
75°	35.1	52.6	52.6	70.1	87.7	99.3	116.8	131.4	140.1	149.0	149.0
77.5°	23.3	32.1	35.1	43.7	52.6	67.1	81.7	90.6	99.3	102.2	102.2
80°	20.4	23.3	23.3	32.1	38.0	49.7	58.4	61.3	67.1	70.1	76.0
82.5°	8.7	11.7	14.6	23.3	26.3	26.3	35.1	38.0	43.7	46.7	46.7
85°	2.9	5.9	5.9	8.7	14.6	17.6	20.4	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: P249078

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5	5981.5
2.5°	5929.0	5931.9	5920.2	5917.3	5911.5	5914.3	5920.2
5°	5820.9	5823.8	5812.2	5800.5	5800.5	5797.5	5800.5
7.5°	5718.7	5721.6	5704.1	5698.2	5686.5	5689.5	5689.5
10°	5616.4	5616.4	5590.2	5587.2	5578.4	5575.5	5575.5
12.5°	5517.1	5508.4	5488.0	5476.3	5482.1	5464.7	5464.7
15°	5429.5	5415.0	5388.6	5379.8	5365.3	5359.4	5359.4
17.5°	5339.0	5327.3	5304.0	5286.4	5268.9	5266.0	5268.9
20°	5251.3	5239.7	5210.4	5198.7	5184.3	5184.3	5178.3
22.5°	5163.7	5152.0	5125.8	5117.0	5096.6	5096.6	5099.5
25°	5073.2	5064.3	5035.2	5029.4	5026.6	5014.8	5020.6
27.5°	4950.6	4944.6	4921.3	4912.6	4900.9	4898.0	4903.8
30°	4725.6	4716.8	4699.5	4690.6	4670.2	4673.1	4678.8
32.5°	4445.3	4433.7	4410.1	4401.4	4384.0	4378.1	4381.0
35°	4094.8	4086.0	4065.6	4065.6	4048.0	4042.2	4048.0
37.5°	3738.5	3747.2	3738.5	3747.2	3738.5	3735.5	3738.5
40°	3402.7	3434.7	3440.5	3472.7	3461.1	3478.5	3475.5
42.5°	3081.3	3133.9	3154.4	3180.6	3174.8	3186.4	3195.3
45°	2757.1	2800.9	2821.3	2838.9	2841.8	2847.7	2850.6
47.5°	2450.4	2485.5	2488.4	2508.8	2505.9	2505.9	2514.7
50°	2164.3	2187.6	2193.3	2208.0	2196.4	2190.4	2193.3
52.5°	1898.5	1921.8	1915.9	1921.8	1907.3	1901.3	1904.2
55°	1626.8	1638.5	1638.5	1638.5	1621.0	1621.0	1621.0
57.5°	1349.3	1352.4	1346.4	1349.3	1346.4	1328.8	1326.0
60°	1095.3	1095.3	1092.3	1095.3	1086.5	1077.7	1077.7
62.5°	855.7	861.6	873.3	861.6	855.7	861.6	852.9
65°	639.6	651.3	648.4	654.2	651.3	651.3	645.5
67.5°	481.9	484.8	487.7	490.8	490.8	490.8	490.8
70°	353.5	362.2	359.2	359.2	359.2	359.2	376.8
72.5°	236.6	248.3	245.4	251.1	251.1	257.0	251.1
75°	160.6	172.3	166.5	175.3	172.3	166.5	181.0
77.5°	108.1	114.0	116.8	119.7	116.8	114.0	116.8
80°	76.0	81.7	78.9	81.7	81.7	81.7	84.7
82.5°	46.7	55.5	52.6	55.5	52.6	55.5	55.5
85°	32.1	35.1	29.3	35.1	32.1	32.1	38.0
87.5°	20.4	17.6	17.6	20.4	17.6	20.4	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)