

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: P249042

Luminaire Tested: **LD8B120D010 ER8B120935 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249042
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 ER8B120935 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10405.0 lumens
Efficiency: N/A
Efficacy: 88.0 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

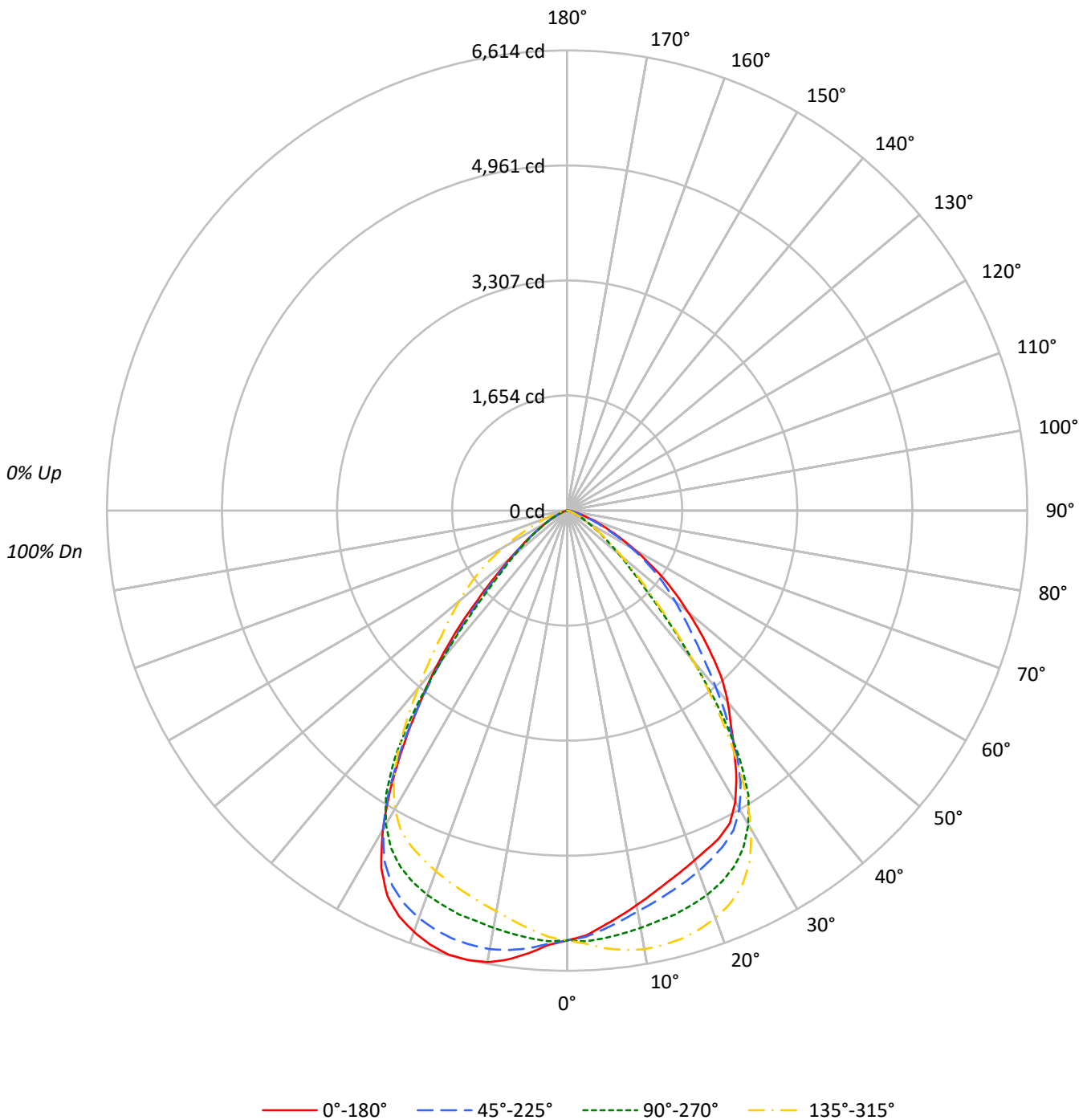
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	190479	190479	190479	190479
5°	185421	190928	197744	190928
10°	180291	190678	206356	190678
15°	176690	191810	210871	191810
20°	175486	192905	211413	192905
25°	176408	192519	208017	192519
30°	172044	185472	188805	185472
35°	157368	161795	153509	161795
40°	144479	112546	117529	112546
45°	128377	68658	79447	68658
50°	108663	45867	50933	45867
55°	89997	31295	33079	31295
60°	68642	20833	21018	20833
65°	48638	12980	11886	12980
70°	35081	8700	7889	8700
75°	22280	4325	3598	4325
80°	15538	3214	2664	3214
85°	13869	0	1061	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.9	5.7
10°-20°	1702.6	16.4
20°-30°	2578.1	24.8
30°-40°	2583.9	24.8
40°-50°	1622.5	15.6
50°-60°	864.6	8.3
60°-70°	355.6	3.4
70°-80°	93.9	0.9
80°-90°	15.9	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°	4868.6	46.8
0°-40°	7452.4	71.6
0°-60°	9939.6	95.5
0°-90°	10405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10405.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6177	6177	6177	6177	6177	
5°	5990	6168	6388	6168	5990	565
15°	5535	6008	6605	6008	5535	1565
25°	5185	5658	6114	5658	5185	2378
35°	4180	4298	4078	4298	4180	2619
45°	2944	1574	1822	1574	2944	2264
55°	1674	582	615	582	1674	1492
65°	667	178	163	178	667	691
75°	187	36	30	36	187	212
85°	39	0	3	0	39	43
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°	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1
2.5°	6113.8	6107.7	6104.7	6110.8	6113.8	6125.8	6122.9	6128.8	6128.8	6131.9	6137.9
5°	5990.2	5987.0	5990.2	5990.2	6002.2	6014.2	6011.3	6020.3	6026.3	6041.4	6047.4
7.5°	5875.6	5875.6	5872.5	5884.5	5890.6	5908.7	5905.6	5920.8	5929.8	5944.8	5965.9
10°	5757.9	5757.9	5760.9	5769.9	5773.0	5800.1	5800.1	5821.2	5833.2	5848.4	5875.6
12.5°	5643.3	5643.3	5661.4	5655.3	5667.4	5688.5	5697.5	5718.6	5736.8	5766.9	5794.1
15°	5534.7	5534.7	5540.7	5555.8	5564.8	5592.0	5607.0	5631.2	5652.3	5682.5	5721.7
17.5°	5441.2	5438.2	5441.2	5459.3	5477.4	5501.5	5513.5	5543.7	5564.8	5604.1	5640.3
20°	5347.7	5353.8	5353.8	5368.8	5380.8	5411.0	5423.0	5456.3	5480.4	5516.5	5558.9
22.5°	5266.2	5263.3	5263.3	5284.4	5293.4	5320.5	5332.5	5362.7	5389.9	5420.1	5459.3
25°	5184.8	5178.7	5190.9	5193.9	5199.8	5230.0	5239.1	5260.2	5287.3	5314.5	5353.8
27.5°	5064.1	5058.2	5061.2	5073.2	5082.3	5106.3	5112.4	5133.5	5154.6	5178.7	5212.0
30°	4831.8	4825.9	4822.9	4844.0	4853.1	4871.1	4880.1	4916.4	4922.4	4949.5	4973.6
32.5°	4524.2	4521.2	4527.3	4545.3	4554.4	4578.6	4590.6	4611.7	4626.8	4641.9	4666.0
35°	4180.4	4174.4	4180.4	4198.6	4198.6	4219.7	4228.7	4237.7	4234.7	4237.7	4231.7
37.5°	3860.8	3857.7	3860.8	3869.7	3860.8	3869.7	3860.8	3842.6	3809.5	3773.2	3737.0
40°	3589.2	3592.2	3574.2	3586.3	3553.0	3547.0	3513.9	3468.6	3402.3	3329.9	3227.4
42.5°	3299.7	3290.7	3278.6	3284.6	3257.5	3236.3	3182.0	3124.8	3040.3	2919.7	2795.9
45°	2943.8	2940.8	2934.7	2931.8	2913.6	2892.5	2847.2	2780.9	2687.4	2563.8	2415.9
47.5°	2596.9	2587.9	2587.9	2590.8	2569.7	2566.8	2530.5	2473.3	2391.8	2271.2	2117.3
50°	2265.1	2262.1	2268.2	2280.2	2265.1	2259.1	2235.0	2195.8	2123.4	2020.9	1876.0
52.5°	1966.5	1963.5	1969.6	1984.6	1978.6	1984.6	1960.5	1930.4	1882.1	1782.5	1655.9
55°	1674.0	1674.0	1674.0	1692.0	1692.0	1692.0	1680.0	1662.0	1616.7	1544.3	1426.7
57.5°	1369.4	1372.3	1390.5	1393.4	1390.5	1396.5	1393.4	1375.3	1345.3	1294.0	1203.5
60°	1113.0	1113.0	1122.1	1131.1	1128.0	1131.1	1131.1	1122.1	1091.9	1049.7	977.3
62.5°	880.7	889.8	883.7	889.8	901.8	889.8	883.7	877.7	856.6	829.4	769.1
65°	666.6	672.6	672.6	675.6	669.5	672.6	660.6	651.5	639.5	609.3	570.1
67.5°	506.8	506.8	506.8	506.8	503.7	500.7	497.7	488.6	467.5	455.5	413.2
70°	389.1	371.0	371.0	371.0	371.0	374.1	365.0	353.0	346.9	325.8	295.6
72.5°	259.3	265.4	259.3	259.3	253.4	256.4	244.3	238.2	232.3	220.2	202.1
75°	187.0	171.9	177.9	181.0	171.9	177.9	165.9	153.8	153.8	144.8	135.7
77.5°	120.7	117.7	120.7	123.7	120.7	117.7	111.6	105.5	105.5	102.5	93.5
80°	87.5	84.4	84.4	84.4	81.4	84.4	78.5	78.5	72.4	69.4	63.3
82.5°	57.4	57.4	54.3	57.4	54.3	57.4	48.3	48.3	48.3	45.2	39.2
85°	39.2	33.1	33.1	36.3	30.2	36.3	33.1	30.2	27.2	27.2	24.1
87.5°	18.1	21.1	18.1	21.1	18.1	18.1	21.1	18.1	18.1	12.0	12.0
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°	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1
2.5°	6147.0	6149.9	6149.9	6162.1	6168.1	6171.0	6171.0	6195.2	6186.2	6192.3	6198.2
5°	6059.6	6077.6	6083.6	6083.6	6116.8	6128.8	6140.9	6168.1	6171.0	6189.2	6210.3
7.5°	5975.0	5996.1	6008.3	6035.3	6056.4	6077.6	6113.8	6131.9	6149.9	6174.1	6201.2
10°	5893.6	5917.8	5941.9	5963.0	5996.1	6023.3	6047.4	6089.6	6110.8	6144.0	6180.1
12.5°	5815.2	5848.4	5869.5	5905.6	5941.9	5965.9	6002.2	6041.4	6074.6	6107.7	6149.9
15°	5745.8	5785.1	5809.1	5848.4	5887.6	5920.8	5960.0	6008.3	6032.4	6071.6	6110.8
17.5°	5670.3	5712.7	5742.8	5779.0	5827.3	5863.4	5896.7	5944.8	5975.0	6017.2	6062.5
20°	5592.0	5634.2	5670.3	5706.6	5754.9	5791.0	5830.2	5878.5	5911.7	5953.9	5990.2
22.5°	5498.5	5537.8	5576.9	5619.1	5667.4	5697.5	5742.8	5785.1	5821.2	5860.4	5896.7
25°	5377.9	5426.1	5456.3	5495.4	5534.7	5567.8	5616.1	5658.3	5688.5	5724.7	5757.9
27.5°	5236.1	5272.3	5296.4	5329.6	5368.8	5399.0	5435.1	5477.4	5507.6	5540.7	5564.8
30°	4994.7	5028.0	5049.1	5073.2	5112.4	5139.6	5169.8	5208.9	5230.0	5254.2	5275.3
32.5°	4678.0	4705.2	4717.3	4735.4	4762.6	4789.6	4813.8	4847.0	4856.1	4871.1	4871.1
35°	4219.7	4225.6	4222.7	4228.7	4240.8	4255.8	4276.9	4298.0	4310.1	4310.1	4301.1
37.5°	3682.7	3646.6	3607.4	3577.2	3568.1	3562.1	3574.2	3583.2	3595.3	3601.3	3586.3
40°	3124.8	3043.4	2955.8	2877.4	2823.1	2799.0	2790.0	2795.9	2795.9	2817.0	2817.0
42.5°	2645.2	2518.5	2388.9	2271.2	2192.7	2132.5	2105.3	2105.3	2108.3	2123.4	2132.5
45°	2247.1	2087.2	1936.3	1806.7	1698.1	1619.6	1583.5	1574.4	1571.5	1577.4	1598.5
47.5°	1942.4	1776.6	1619.6	1459.9	1345.3	1266.8	1233.7	1221.5	1209.5	1221.5	1224.6
50°	1704.2	1532.2	1366.4	1206.5	1085.8	1016.4	974.2	956.1	953.1	953.1	959.2
52.5°	1486.9	1327.1	1161.3	998.4	871.6	805.3	766.1	757.1	745.0	757.1	757.1
55°	1281.8	1122.1	959.2	805.3	699.7	630.4	594.2	582.1	576.0	585.1	585.1
57.5°	1058.7	922.9	772.2	633.4	527.9	479.6	452.4	437.4	434.3	440.4	434.3
60°	868.7	754.1	624.3	497.7	416.3	365.0	343.9	337.8	331.7	337.8	337.8
62.5°	687.7	591.2	485.5	389.1	319.7	283.6	259.3	259.3	256.4	256.4	259.3
65°	509.8	434.3	358.9	277.5	223.2	196.0	177.9	177.9	174.9	177.9	174.9
67.5°	371.0	319.7	259.3	202.1	159.9	144.8	132.7	123.7	129.7	123.7	120.7
70°	271.5	229.2	187.0	153.8	123.7	108.6	99.6	96.5	90.5	90.5	90.5
72.5°	181.0	153.8	126.6	99.6	81.4	66.3	63.3	57.4	51.3	54.3	60.3
75°	120.7	102.5	90.5	72.4	54.3	54.3	36.3	36.3	30.2	36.3	27.2
77.5°	84.4	69.4	54.3	45.2	36.3	33.1	24.1	24.1	21.1	21.1	21.1
80°	60.3	51.3	39.2	33.1	24.1	24.1	21.1	18.1	15.0	15.0	18.1
82.5°	36.3	27.2	27.2	24.1	15.0	12.0	9.1	12.0	6.1	6.1	6.1
85°	21.1	18.1	15.0	9.1	6.1	6.1	3.0	0.0	3.0	3.0	0.0
87.5°	12.0	6.1	6.1	3.0	0.0	3.0	3.0	0.0	0.0	0.0	6.1
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°	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1
2.5°	6213.4	6210.3	6216.3	6216.3	6234.5	6231.4	6240.4	6240.4	6234.5	6237.5	6249.5
5°	6234.5	6243.5	6261.5	6276.7	6303.8	6315.9	6330.9	6346.1	6349.1	6358.1	6367.2
7.5°	6234.5	6264.6	6285.7	6312.8	6349.1	6370.2	6403.3	6430.5	6442.5	6457.6	6475.7
10°	6222.3	6252.5	6291.7	6321.9	6367.2	6400.3	6433.5	6475.7	6493.8	6517.9	6542.1
12.5°	6198.2	6231.4	6273.6	6312.8	6364.1	6394.3	6436.5	6475.7	6502.9	6536.0	6563.2
15°	6162.1	6201.2	6240.4	6279.7	6333.9	6370.2	6409.4	6454.6	6481.8	6517.9	6542.1
17.5°	6104.7	6147.0	6183.2	6219.3	6270.6	6312.8	6349.1	6391.3	6418.5	6448.6	6481.8
20°	6035.3	6074.6	6113.8	6144.0	6195.2	6231.4	6270.6	6309.8	6330.9	6337.0	6388.3
22.5°	5947.9	5975.0	6005.2	6053.5	6083.6	6116.8	6153.0	6189.2	6210.3	6243.5	6261.5
25°	5803.1	5830.2	5863.4	5884.5	5920.8	5947.9	5984.1	6023.3	6035.3	6059.6	6077.6
27.5°	5601.1	5616.1	5631.2	5649.2	5670.3	5685.5	5706.6	5724.7	5736.8	5748.8	5760.9
30°	5281.3	5281.3	5281.3	5269.2	5278.3	5287.3	5290.3	5287.3	5287.3	5284.4	5284.4
32.5°	4859.0	4835.0	4807.8	4783.7	4774.6	4762.6	4756.5	4747.4	4732.4	4723.3	4726.3
35°	4288.9	4234.7	4201.5	4171.4	4147.3	4129.2	4120.1	4111.0	4108.1	4096.0	4083.9
37.5°	3577.2	3538.0	3513.9	3495.8	3474.7	3456.5	3459.5	3462.6	3471.6	3465.6	3468.6
40°	2823.1	2814.1	2823.1	2802.0	2795.9	2802.0	2817.0	2838.3	2850.3	2862.4	2883.5
42.5°	2147.5	2162.5	2183.8	2183.8	2192.7	2204.9	2222.9	2256.1	2274.1	2295.3	2319.5
45°	1616.7	1634.8	1662.0	1670.9	1677.0	1692.0	1713.2	1740.3	1752.4	1770.5	1791.6
47.5°	1245.7	1257.7	1272.8	1287.9	1302.9	1309.0	1330.1	1330.1	1345.3	1357.3	1363.3
50°	971.2	983.3	995.3	1004.4	1010.4	1019.5	1025.5	1034.5	1037.5	1043.6	1046.6
52.5°	760.0	775.2	775.2	781.1	790.2	799.3	796.3	799.3	802.2	802.2	811.3
55°	594.2	594.2	603.2	603.2	609.3	606.2	609.3	609.3	609.3	609.3	612.3
57.5°	443.3	446.4	455.5	449.4	446.4	452.4	446.4	452.4	449.4	455.5	446.4
60°	340.8	340.8	343.9	343.9	346.9	346.9	346.9	343.9	343.9	340.8	340.8
62.5°	256.4	259.3	262.4	259.3	259.3	259.3	256.4	256.4	253.4	250.3	250.3
65°	171.9	169.0	174.9	169.0	171.9	171.9	169.0	171.9	162.9	165.9	162.9
67.5°	123.7	120.7	117.7	120.7	117.7	114.6	114.6	117.7	120.7	111.6	111.6
70°	81.4	84.4	81.4	84.4	87.5	87.5	84.4	81.4	84.4	78.5	81.4
72.5°	51.3	51.3	51.3	51.3	51.3	54.3	54.3	54.3	48.3	48.3	45.2
75°	24.1	33.1	27.2	24.1	33.1	33.1	30.2	30.2	27.2	27.2	27.2
77.5°	24.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	15.0	18.1	15.0
80°	12.0	12.0	12.0	9.1	12.0	12.0	15.0	12.0	12.0	9.1	15.0
82.5°	6.1	6.1	6.1	0.0	3.0	6.1	6.1	3.0	6.1	6.1	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: P249042

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1
2.5°	6246.5	6243.5	6246.5	6249.5	6246.5	6243.5	6246.5	6249.5	6237.5	6234.5	6240.4
5°	6379.2	6379.2	6385.2	6388.3	6385.2	6379.2	6379.2	6367.2	6358.1	6349.1	6346.1
7.5°	6493.8	6499.9	6505.9	6508.8	6505.9	6499.9	6493.8	6475.7	6457.6	6442.5	6430.5
10°	6563.2	6572.3	6584.3	6590.3	6584.3	6572.3	6563.2	6542.1	6517.9	6493.8	6475.7
12.5°	6593.4	6602.5	6617.5	6614.5	6617.5	6602.5	6593.4	6563.2	6536.0	6502.9	6475.7
15°	6572.3	6584.3	6599.3	6605.4	6599.3	6584.3	6572.3	6542.1	6517.9	6481.8	6454.6
17.5°	6505.9	6524.0	6533.1	6542.1	6533.1	6524.0	6505.9	6481.8	6448.6	6418.5	6391.3
20°	6415.4	6427.5	6439.6	6442.5	6439.6	6427.5	6415.4	6388.3	6337.0	6330.9	6309.8
22.5°	6285.7	6294.8	6321.9	6312.8	6321.9	6294.8	6285.7	6261.5	6243.5	6210.3	6189.2
25°	6098.7	6107.7	6110.8	6113.8	6110.8	6107.7	6098.7	6077.6	6059.6	6035.3	6023.3
27.5°	5776.0	5776.0	5782.0	5785.1	5782.0	5776.0	5776.0	5760.9	5748.8	5736.8	5724.7
30°	5287.3	5287.3	5287.3	5302.5	5287.3	5287.3	5287.3	5284.4	5284.4	5287.3	5287.3
32.5°	4723.3	4717.3	4711.3	4717.3	4711.3	4717.3	4723.3	4726.3	4723.3	4732.4	4747.4
35°	4083.9	4080.9	4089.9	4077.9	4089.9	4080.9	4083.9	4083.9	4096.0	4108.1	4111.0
37.5°	3471.6	3465.6	3477.6	3465.6	3477.6	3465.6	3471.6	3468.6	3465.6	3471.6	3462.6
40°	2889.5	2895.5	2895.5	2919.7	2895.5	2895.5	2889.5	2883.5	2862.4	2850.3	2838.3
42.5°	2331.5	2349.6	2343.5	2361.7	2343.5	2349.6	2331.5	2319.5	2295.3	2274.1	2256.1
45°	1803.6	1815.8	1815.8	1821.8	1815.8	1815.8	1803.6	1791.6	1770.5	1752.4	1740.3
47.5°	1384.4	1384.4	1384.4	1387.5	1384.4	1384.4	1384.4	1363.3	1357.3	1345.3	1330.1
50°	1052.7	1055.6	1058.7	1061.7	1058.7	1055.6	1052.7	1046.6	1043.6	1037.5	1034.5
52.5°	808.3	811.3	805.3	811.3	805.3	811.3	808.3	811.3	802.2	802.2	799.3
55°	612.3	609.3	612.3	615.3	612.3	609.3	612.3	612.3	609.3	609.3	609.3
57.5°	449.4	443.3	443.3	443.3	443.3	443.3	449.4	446.4	455.5	449.4	452.4
60°	334.8	337.8	337.8	340.8	337.8	337.8	334.8	340.8	340.8	343.9	343.9
62.5°	247.3	256.4	250.3	256.4	250.3	256.4	247.3	250.3	250.3	253.4	256.4
65°	159.9	159.9	159.9	162.9	159.9	159.9	159.9	162.9	165.9	162.9	171.9
67.5°	108.6	111.6	117.7	114.6	117.7	111.6	108.6	111.6	111.6	120.7	117.7
70°	87.5	78.5	78.5	87.5	78.5	78.5	87.5	81.4	78.5	84.4	81.4
72.5°	51.3	45.2	51.3	51.3	51.3	45.2	51.3	45.2	48.3	48.3	54.3
75°	27.2	24.1	21.1	30.2	21.1	24.1	27.2	27.2	27.2	27.2	30.2
77.5°	18.1	15.0	21.1	21.1	21.1	15.0	18.1	15.0	18.1	15.0	18.1
80°	9.1	12.0	9.1	15.0	9.1	12.0	9.1	15.0	9.1	12.0	12.0
82.5°	3.0	6.1	6.1	6.1	6.1	6.1	3.0	3.0	6.1	6.1	3.0
85°	0.0	6.1	3.0	3.0	3.0	6.1	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: P249042

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1
2.5°	6240.4	6231.4	6234.5	6216.3	6216.3	6210.3	6213.4	6198.2	6192.3	6186.2	6195.2
5°	6330.9	6315.9	6303.8	6276.7	6261.5	6243.5	6234.5	6210.3	6189.2	6171.0	6168.1
7.5°	6403.3	6370.2	6349.1	6312.8	6285.7	6264.6	6234.5	6201.2	6174.1	6149.9	6131.9
10°	6433.5	6400.3	6367.2	6321.9	6291.7	6252.5	6222.3	6180.1	6144.0	6110.8	6089.6
12.5°	6436.5	6394.3	6364.1	6312.8	6273.6	6231.4	6198.2	6149.9	6107.7	6074.6	6041.4
15°	6409.4	6370.2	6333.9	6279.7	6240.4	6201.2	6162.1	6110.8	6071.6	6032.4	6008.3
17.5°	6349.1	6312.8	6270.6	6219.3	6183.2	6147.0	6104.7	6062.5	6017.2	5975.0	5944.8
20°	6270.6	6231.4	6195.2	6144.0	6113.8	6074.6	6035.3	5990.2	5953.9	5911.7	5878.5
22.5°	6153.0	6116.8	6083.6	6053.5	6005.2	5975.0	5947.9	5896.7	5860.4	5821.2	5785.1
25°	5984.1	5947.9	5920.8	5884.5	5863.4	5830.2	5803.1	5757.9	5724.7	5688.5	5658.3
27.5°	5706.6	5685.5	5670.3	5649.2	5631.2	5616.1	5601.1	5564.8	5540.7	5507.6	5477.4
30°	5290.3	5287.3	5278.3	5269.2	5281.3	5281.3	5281.3	5275.3	5254.2	5230.0	5208.9
32.5°	4756.5	4762.6	4774.6	4783.7	4807.8	4835.0	4859.0	4871.1	4871.1	4856.1	4847.0
35°	4120.1	4129.2	4147.3	4171.4	4201.5	4234.7	4288.9	4301.1	4310.1	4310.1	4298.0
37.5°	3459.5	3456.5	3474.7	3495.8	3513.9	3538.0	3577.2	3586.3	3601.3	3595.3	3583.2
40°	2817.0	2802.0	2795.9	2802.0	2823.1	2814.1	2823.1	2817.0	2817.0	2795.9	2795.9
42.5°	2222.9	2204.9	2192.7	2183.8	2183.8	2162.5	2147.5	2132.5	2123.4	2108.3	2105.3
45°	1713.2	1692.0	1677.0	1670.9	1662.0	1634.8	1616.7	1598.5	1577.4	1571.5	1574.4
47.5°	1330.1	1309.0	1302.9	1287.9	1272.8	1257.7	1245.7	1224.6	1221.5	1209.5	1221.5
50°	1025.5	1019.5	1010.4	1004.4	995.3	983.3	971.2	959.2	953.1	953.1	956.1
52.5°	796.3	799.3	790.2	781.1	775.2	775.2	760.0	757.1	757.1	745.0	757.1
55°	609.3	606.2	609.3	603.2	603.2	594.2	594.2	585.1	585.1	576.0	582.1
57.5°	446.4	452.4	446.4	449.4	455.5	446.4	443.3	434.3	440.4	434.3	437.4
60°	346.9	346.9	346.9	343.9	343.9	340.8	340.8	337.8	337.8	331.7	337.8
62.5°	256.4	259.3	259.3	259.3	262.4	259.3	256.4	259.3	256.4	256.4	259.3
65°	169.0	171.9	171.9	169.0	174.9	169.0	171.9	174.9	177.9	174.9	177.9
67.5°	114.6	114.6	117.7	120.7	117.7	120.7	123.7	120.7	123.7	129.7	123.7
70°	84.4	87.5	87.5	84.4	81.4	84.4	81.4	90.5	90.5	90.5	96.5
72.5°	54.3	54.3	51.3	51.3	51.3	51.3	51.3	60.3	54.3	51.3	57.4
75°	30.2	33.1	33.1	24.1	27.2	33.1	24.1	27.2	36.3	30.2	36.3
77.5°	18.1	18.1	18.1	18.1	18.1	18.1	24.1	21.1	21.1	21.1	24.1
80°	15.0	12.0	12.0	9.1	12.0	12.0	12.0	18.1	15.0	15.0	18.1
82.5°	6.1	6.1	3.0	0.0	6.1	6.1	6.1	6.1	6.1	6.1	12.0
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	6.1	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: P249042

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1
2.5°	6171.0	6171.0	6168.1	6162.1	6149.9	6149.9	6147.0	6137.9	6131.9	6128.8	6128.8
5°	6140.9	6128.8	6116.8	6083.6	6083.6	6077.6	6059.6	6047.4	6041.4	6026.3	6020.3
7.5°	6113.8	6077.6	6056.4	6035.3	6008.3	5996.1	5975.0	5965.9	5944.8	5929.8	5920.8
10°	6047.4	6023.3	5996.1	5963.0	5941.9	5917.8	5893.6	5875.6	5848.4	5833.2	5821.2
12.5°	6002.2	5965.9	5941.9	5905.6	5869.5	5848.4	5815.2	5794.1	5766.9	5736.8	5718.6
15°	5960.0	5920.8	5887.6	5848.4	5809.1	5785.1	5745.8	5721.7	5682.5	5652.3	5631.2
17.5°	5896.7	5863.4	5827.3	5779.0	5742.8	5712.7	5670.3	5640.3	5604.1	5564.8	5543.7
20°	5830.2	5791.0	5754.9	5706.6	5670.3	5634.2	5592.0	5558.9	5516.5	5480.4	5456.3
22.5°	5742.8	5697.5	5667.4	5619.1	5576.9	5537.8	5498.5	5459.3	5420.1	5389.9	5362.7
25°	5616.1	5567.8	5534.7	5495.4	5456.3	5426.1	5377.9	5353.8	5314.5	5287.3	5260.2
27.5°	5435.1	5399.0	5368.8	5329.6	5296.4	5272.3	5236.1	5212.0	5178.7	5154.6	5133.5
30°	5169.8	5139.6	5112.4	5073.2	5049.1	5028.0	4994.7	4973.6	4949.5	4922.4	4916.4
32.5°	4813.8	4789.6	4762.6	4735.4	4717.3	4705.2	4678.0	4666.0	4641.9	4626.8	4611.7
35°	4276.9	4255.8	4240.8	4228.7	4222.7	4225.6	4219.7	4231.7	4237.7	4234.7	4237.7
37.5°	3574.2	3562.1	3568.1	3577.2	3607.4	3646.6	3682.7	3737.0	3773.2	3809.5	3842.6
40°	2790.0	2799.0	2823.1	2877.4	2955.8	3043.4	3124.8	3227.4	3329.9	3402.3	3468.6
42.5°	2105.3	2132.5	2192.7	2271.2	2388.9	2518.5	2645.2	2795.9	2919.7	3040.3	3124.8
45°	1583.5	1619.6	1698.1	1806.7	1936.3	2087.2	2247.1	2415.9	2563.8	2687.4	2780.9
47.5°	1233.7	1266.8	1345.3	1459.9	1619.6	1776.6	1942.4	2117.3	2271.2	2391.8	2473.3
50°	974.2	1016.4	1085.8	1206.5	1366.4	1532.2	1704.2	1876.0	2020.9	2123.4	2195.8
52.5°	766.1	805.3	871.6	998.4	1161.3	1327.1	1486.9	1655.9	1782.5	1882.1	1930.4
55°	594.2	630.4	699.7	805.3	959.2	1122.1	1281.8	1426.7	1544.3	1616.7	1662.0
57.5°	452.4	479.6	527.9	633.4	772.2	922.9	1058.7	1203.5	1294.0	1345.3	1375.3
60°	343.9	365.0	416.3	497.7	624.3	754.1	868.7	977.3	1049.7	1091.9	1122.1
62.5°	259.3	283.6	319.7	389.1	485.5	591.2	687.7	769.1	829.4	856.6	877.7
65°	177.9	196.0	223.2	277.5	358.9	434.3	509.8	570.1	609.3	639.5	651.5
67.5°	132.7	144.8	159.9	202.1	259.3	319.7	371.0	413.2	455.5	467.5	488.6
70°	99.6	108.6	123.7	153.8	187.0	229.2	271.5	295.6	325.8	346.9	353.0
72.5°	63.3	66.3	81.4	99.6	126.6	153.8	181.0	202.1	220.2	232.3	238.2
75°	36.3	54.3	54.3	72.4	90.5	102.5	120.7	135.7	144.8	153.8	153.8
77.5°	24.1	33.1	36.3	45.2	54.3	69.4	84.4	93.5	102.5	105.5	105.5
80°	21.1	24.1	24.1	33.1	39.2	51.3	60.3	63.3	69.4	72.4	78.5
82.5°	9.1	12.0	15.0	24.1	27.2	27.2	36.3	39.2	45.2	48.3	48.3
85°	3.0	6.1	6.1	9.1	15.0	18.1	21.1	24.1	27.2	27.2	30.2
87.5°	3.0	3.0	0.0	3.0	6.1	6.1	12.0	12.0	12.0	18.1	18.1
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: P249042

CATALOG NUMBER: LD8B120D010 ER8B120935 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1	6177.1
2.5°	6122.9	6125.8	6113.8	6110.8	6104.7	6107.7	6113.8
5°	6011.3	6014.2	6002.2	5990.2	5990.2	5987.0	5990.2
7.5°	5905.6	5908.7	5890.6	5884.5	5872.5	5875.6	5875.6
10°	5800.1	5800.1	5773.0	5769.9	5760.9	5757.9	5757.9
12.5°	5697.5	5688.5	5667.4	5655.3	5661.4	5643.3	5643.3
15°	5607.0	5592.0	5564.8	5555.8	5540.7	5534.7	5534.7
17.5°	5513.5	5501.5	5477.4	5459.3	5441.2	5438.2	5441.2
20°	5423.0	5411.0	5380.8	5368.8	5353.8	5353.8	5347.7
22.5°	5332.5	5320.5	5293.4	5284.4	5263.3	5263.3	5266.2
25°	5239.1	5230.0	5199.8	5193.9	5190.9	5178.7	5184.8
27.5°	5112.4	5106.3	5082.3	5073.2	5061.2	5058.2	5064.1
30°	4880.1	4871.1	4853.1	4844.0	4822.9	4825.9	4831.8
32.5°	4590.6	4578.6	4554.4	4545.3	4527.3	4521.2	4524.2
35°	4228.7	4219.7	4198.6	4198.6	4180.4	4174.4	4180.4
37.5°	3860.8	3869.7	3860.8	3869.7	3860.8	3857.7	3860.8
40°	3513.9	3547.0	3553.0	3586.3	3574.2	3592.2	3589.2
42.5°	3182.0	3236.3	3257.5	3284.6	3278.6	3290.7	3299.7
45°	2847.2	2892.5	2913.6	2931.8	2934.7	2940.8	2943.8
47.5°	2530.5	2566.8	2569.7	2590.8	2587.9	2587.9	2596.9
50°	2235.0	2259.1	2265.1	2280.2	2268.2	2262.1	2265.1
52.5°	1960.5	1984.6	1978.6	1984.6	1969.6	1963.5	1966.5
55°	1680.0	1692.0	1692.0	1692.0	1674.0	1674.0	1674.0
57.5°	1393.4	1396.5	1390.5	1393.4	1390.5	1372.3	1369.4
60°	1131.1	1131.1	1128.0	1131.1	1122.1	1113.0	1113.0
62.5°	883.7	889.8	901.8	889.8	883.7	889.8	880.7
65°	660.6	672.6	669.5	675.6	672.6	672.6	666.6
67.5°	497.7	500.7	503.7	506.8	506.8	506.8	506.8
70°	365.0	374.1	371.0	371.0	371.0	371.0	389.1
72.5°	244.3	256.4	253.4	259.3	259.3	265.4	259.3
75°	165.9	177.9	171.9	181.0	177.9	171.9	187.0
77.5°	111.6	117.7	120.7	123.7	120.7	117.7	120.7
80°	78.5	84.4	81.4	84.4	84.4	84.4	87.5
82.5°	48.3	57.4	54.3	57.4	54.3	57.4	57.4
85°	33.1	36.3	30.2	36.3	33.1	33.1	39.2
87.5°	21.1	18.1	18.1	21.1	18.1	21.1	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)