

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: P248863

Luminaire Tested: **LD8B150D010 ER8B150930 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248863
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: LD8B150D010 ER8B150930 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12420.7 lumens
Efficiency: N/A
Efficacy: 78.4 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

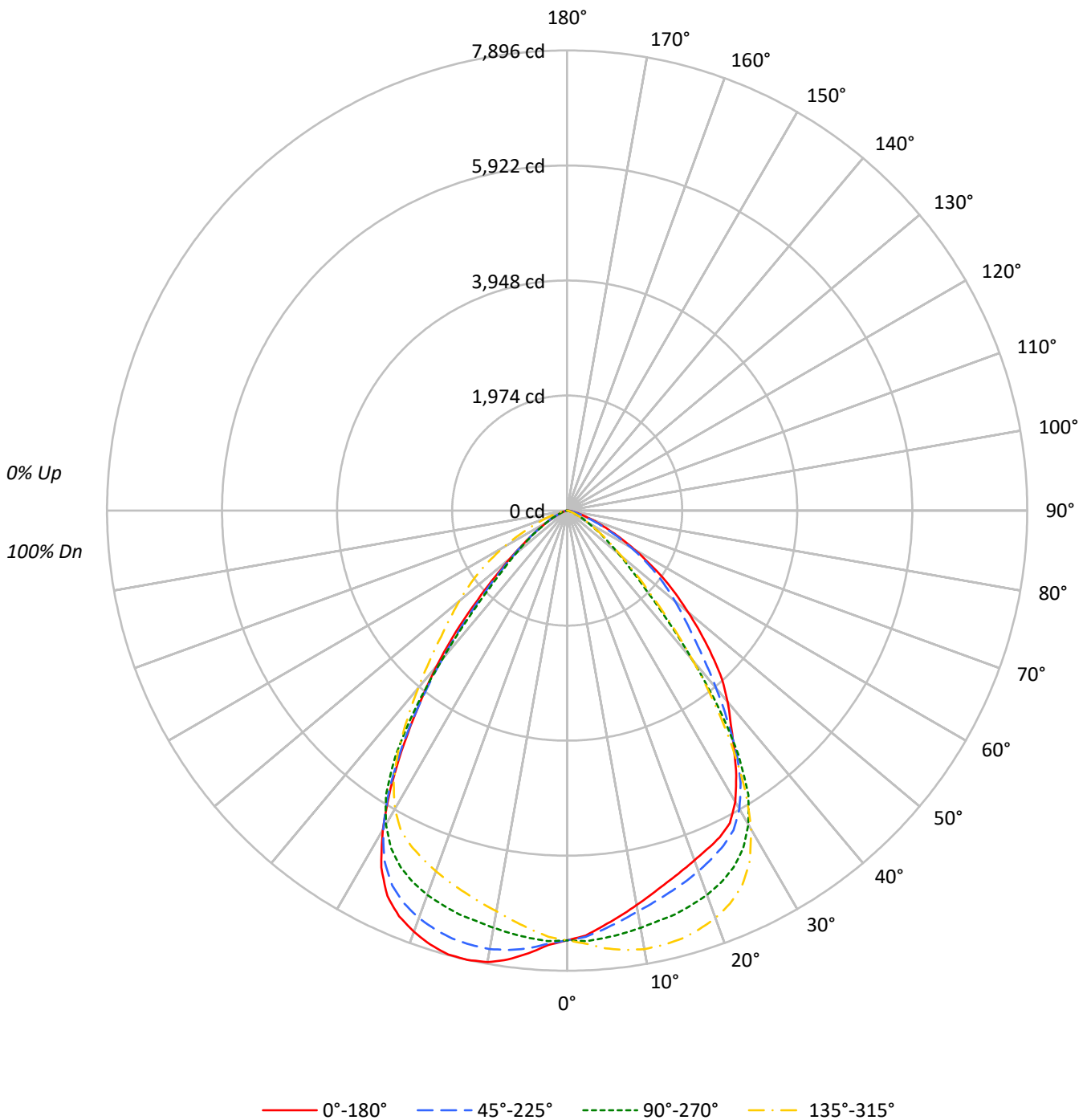
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	701.8	5.7
10°-20°	2032.4	16.4
20°-30°	3077.5	24.8
30°-40°	3084.4	24.8
40°-50°	1936.9	15.6
50°-60°	1032.1	8.3
60°-70°	424.4	3.4
70°-80°	112.1	0.9
80°-90°	19.0	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°	5811.7	46.8
0°-40°	8896.2	71.6
0°-60°	11865.1	95.5
0°-90°	12420.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12420.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7374	7374	7374	7374	7374	
5°	7150	7363	7626	7363	7150	674
15°	6607	7172	7885	7172	6607	1869
25°	6189	6754	7298	6754	6189	2839
35°	4990	5131	4868	5131	4990	3126
45°	3514	1880	2175	1880	3514	2703
55°	1998	695	734	695	1998	1782
65°	796	212	194	212	796	825
75°	223	43	36	43	223	253
85°	47	0	4	0	47	51
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°	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7
2.5°	7298.2	7290.9	7287.4	7294.6	7298.2	7312.5	7309.0	7316.1	7316.1	7319.8	7327.0
5°	7150.5	7146.8	7150.5	7150.5	7165.0	7179.3	7175.7	7186.6	7193.7	7211.7	7218.9
7.5°	7013.8	7013.8	7010.1	7024.4	7031.7	7053.3	7049.6	7067.7	7078.6	7096.5	7121.7
10°	6873.3	6873.3	6876.9	6887.6	6891.3	6923.6	6923.6	6948.9	6963.2	6981.4	7013.8
12.5°	6736.5	6736.5	6758.2	6750.9	6765.2	6790.5	6801.2	6826.4	6848.1	6884.1	6916.6
15°	6606.8	6606.8	6614.1	6632.1	6642.8	6675.3	6693.3	6722.2	6747.3	6783.4	6830.1
17.5°	6495.3	6491.7	6495.3	6516.9	6538.6	6567.3	6581.6	6617.7	6642.8	6689.7	6733.0
20°	6383.6	6390.9	6390.9	6408.9	6423.2	6459.2	6473.6	6513.3	6542.0	6585.2	6635.8
22.5°	6286.5	6282.9	6282.9	6308.1	6318.9	6351.2	6365.6	6401.6	6434.1	6470.1	6516.9
25°	6189.3	6182.0	6196.4	6200.0	6207.2	6243.2	6253.9	6279.2	6311.7	6344.1	6390.9
27.5°	6045.2	6038.0	6041.6	6056.0	6066.9	6095.5	6102.8	6128.1	6153.2	6182.0	6221.7
30°	5767.9	5760.8	5757.2	5782.5	5793.2	5814.7	5825.5	5868.8	5875.9	5908.3	5937.2
32.5°	5400.6	5397.1	5404.3	5425.9	5436.6	5465.5	5479.9	5505.1	5523.1	5541.1	5569.9
35°	4990.2	4983.1	4990.2	5011.9	5011.9	5037.1	5048.0	5058.6	5055.0	5058.6	5051.5
37.5°	4608.7	4605.0	4608.7	4619.3	4608.7	4619.3	4608.7	4587.0	4547.4	4504.2	4460.9
40°	4284.6	4288.2	4266.6	4281.0	4241.3	4234.1	4194.6	4140.5	4061.4	3975.0	3852.5
42.5°	3939.0	3928.1	3913.7	3920.9	3888.5	3863.2	3798.5	3730.1	3629.2	3485.3	3337.6
45°	3514.1	3510.5	3503.2	3499.8	3478.0	3452.9	3398.8	3319.6	3208.1	3060.4	2884.0
47.5°	3100.0	3089.3	3089.3	3092.7	3067.6	3064.0	3020.8	2952.4	2855.2	2711.1	2527.5
50°	2703.9	2700.4	2707.6	2722.0	2703.9	2696.8	2668.0	2621.2	2534.8	2412.4	2239.4
52.5°	2347.5	2343.9	2351.2	2369.1	2361.8	2369.1	2340.3	2304.3	2246.7	2127.9	1976.7
55°	1998.3	1998.3	1998.3	2019.8	2019.8	2019.8	2005.5	1983.9	1929.8	1843.5	1703.1
57.5°	1634.6	1638.2	1659.9	1663.3	1659.9	1667.0	1663.3	1641.7	1605.8	1544.6	1436.7
60°	1328.6	1328.6	1339.4	1350.2	1346.5	1350.2	1350.2	1339.4	1303.4	1253.1	1166.6
62.5°	1051.3	1062.1	1054.9	1062.1	1076.5	1062.1	1054.9	1047.8	1022.6	990.1	918.1
65°	795.7	803.0	803.0	806.4	799.3	803.0	788.5	777.7	763.4	727.3	680.6
67.5°	604.9	604.9	604.9	604.9	601.2	597.7	594.1	583.3	558.1	543.7	493.2
70°	464.4	442.8	442.8	442.8	442.8	446.5	435.7	421.4	414.1	388.9	352.9
72.5°	309.6	316.8	309.6	309.6	302.4	306.0	291.7	284.4	277.3	262.9	241.2
75°	223.2	205.3	212.3	216.1	205.3	212.3	198.0	183.6	183.6	172.7	162.0
77.5°	144.0	140.5	144.0	147.6	144.0	140.5	133.2	126.0	126.0	122.4	111.5
80°	104.5	100.8	100.8	100.8	97.2	100.8	93.7	93.7	86.4	82.8	75.6
82.5°	68.5	68.5	64.8	68.5	64.8	68.5	57.6	57.6	57.6	53.9	46.9
85°	46.9	39.6	39.6	43.3	36.0	43.3	39.6	36.0	32.5	32.5	28.7
87.5°	21.6	25.2	21.6	25.2	21.6	21.6	25.2	21.6	21.6	14.3	14.3
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°	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7
2.5°	7337.7	7341.3	7341.3	7355.8	7363.0	7366.5	7366.5	7395.3	7384.6	7391.9	7398.9
5°	7233.4	7254.9	7262.2	7262.2	7301.7	7316.1	7330.4	7363.0	7366.5	7388.2	7413.3
7.5°	7132.5	7157.7	7172.3	7204.6	7229.7	7254.9	7298.2	7319.8	7341.3	7370.2	7402.5
10°	7035.3	7064.2	7092.9	7118.1	7157.7	7190.1	7218.9	7269.2	7294.6	7334.1	7377.3
12.5°	6941.8	6981.4	7006.5	7049.6	7092.9	7121.7	7165.0	7211.7	7251.3	7290.9	7341.3
15°	6859.0	6905.8	6934.5	6981.4	7028.1	7067.7	7114.5	7172.3	7201.0	7247.8	7294.6
17.5°	6768.8	6819.4	6855.4	6898.5	6956.1	6999.3	7039.0	7096.5	7132.5	7182.9	7237.0
20°	6675.3	6725.7	6768.8	6812.1	6869.7	6912.9	6959.7	7017.3	7056.9	7107.3	7150.5
22.5°	6563.7	6610.5	6657.2	6707.6	6765.2	6801.2	6855.4	6905.8	6948.9	6995.7	7039.0
25°	6419.6	6477.4	6513.3	6560.0	6606.8	6646.4	6704.0	6754.5	6790.5	6833.7	6873.3
27.5°	6250.5	6293.7	6322.4	6362.0	6408.9	6444.9	6488.0	6538.6	6574.6	6614.1	6642.8
30°	5962.4	6002.1	6027.3	6056.0	6102.8	6135.2	6171.3	6218.0	6243.2	6272.1	6297.2
32.5°	5584.3	5616.8	5631.1	5652.8	5685.2	5717.5	5746.4	5785.9	5796.8	5814.7	5814.7
35°	5037.1	5044.3	5040.7	5048.0	5062.3	5080.3	5105.5	5130.6	5145.1	5145.1	5134.3
37.5°	4396.1	4353.1	4306.2	4270.2	4259.4	4252.1	4266.6	4277.3	4291.9	4298.9	4281.0
40°	3730.1	3632.9	3528.5	3434.7	3370.1	3341.3	3330.5	3337.6	3337.6	3362.8	3362.8
42.5°	3157.6	3006.4	2851.6	2711.1	2617.5	2545.6	2513.2	2513.2	2516.8	2534.8	2545.6
45°	2682.4	2491.5	2311.5	2156.7	2027.1	1933.4	1890.2	1879.5	1875.9	1883.1	1908.2
47.5°	2318.7	2120.7	1933.4	1742.7	1605.8	1512.2	1472.7	1458.1	1443.7	1458.1	1461.8
50°	2034.3	1829.0	1631.1	1440.1	1296.1	1213.3	1162.9	1141.3	1137.7	1137.7	1145.0
52.5°	1775.0	1584.2	1386.2	1191.8	1040.5	961.4	914.5	903.8	889.3	903.8	903.8
55°	1530.2	1339.4	1145.0	961.4	835.3	752.5	709.3	694.9	687.6	698.5	698.5
57.5°	1263.8	1101.7	921.8	756.1	630.1	572.5	540.0	522.0	518.4	525.6	518.4
60°	1036.9	900.2	745.2	594.1	496.9	435.7	410.5	403.2	395.9	403.2	403.2
62.5°	820.9	705.7	579.6	464.4	381.6	338.4	309.6	309.6	306.0	306.0	309.6
65°	608.5	518.4	428.4	331.3	266.5	234.0	212.3	212.3	208.8	212.3	208.8
67.5°	442.8	381.6	309.6	241.2	190.9	172.7	158.4	147.6	154.9	147.6	144.0
70°	324.1	273.5	223.2	183.6	147.6	129.7	118.8	115.1	108.1	108.1	108.1
72.5°	216.1	183.6	151.1	118.8	97.2	79.1	75.6	68.5	61.2	64.8	72.1
75°	144.0	122.4	108.1	86.4	64.8	64.8	43.3	43.3	36.0	43.3	32.5
77.5°	100.8	82.8	64.8	53.9	43.3	39.6	28.7	28.7	25.2	25.2	25.2
80°	72.1	61.2	46.9	39.6	28.7	28.7	25.2	21.6	17.9	17.9	21.6
82.5°	43.3	32.5	32.5	28.7	17.9	14.3	10.9	14.3	7.3	7.3	7.3
85°	25.2	21.6	17.9	10.9	7.3	7.3	3.6	0.0	3.6	3.6	0.0
87.5°	14.3	7.3	7.3	3.6	0.0	3.6	3.6	0.0	0.0	0.0	7.3
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°	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7
2.5°	7417.0	7413.3	7420.6	7420.6	7442.2	7438.5	7449.4	7449.4	7442.2	7445.8	7460.1
5°	7442.2	7453.1	7474.5	7492.7	7524.9	7539.4	7557.3	7575.5	7579.0	7589.8	7600.6
7.5°	7442.2	7478.2	7503.4	7535.7	7579.0	7604.2	7643.8	7676.3	7690.6	7708.6	7730.2
10°	7427.7	7463.7	7510.6	7546.6	7600.6	7640.2	7679.7	7730.2	7751.8	7780.5	7809.4
12.5°	7398.9	7438.5	7489.0	7535.7	7596.9	7633.0	7683.3	7730.2	7762.6	7802.2	7834.7
15°	7355.8	7402.5	7449.4	7496.1	7560.9	7604.2	7651.0	7705.0	7737.5	7780.5	7809.4
17.5°	7287.4	7337.7	7381.0	7424.2	7485.4	7535.7	7579.0	7629.4	7661.8	7697.9	7737.5
20°	7204.6	7251.3	7298.2	7334.1	7395.3	7438.5	7485.4	7532.2	7557.3	7564.6	7625.8
22.5°	7100.2	7132.5	7168.5	7226.2	7262.2	7301.7	7345.0	7388.2	7413.3	7453.1	7474.5
25°	6927.2	6959.7	6999.3	7024.4	7067.7	7100.2	7143.3	7190.1	7204.6	7233.4	7254.9
27.5°	6686.1	6704.0	6722.2	6743.6	6768.8	6786.9	6812.1	6833.7	6848.1	6862.4	6876.9
30°	6304.4	6304.4	6304.4	6290.0	6300.8	6311.7	6315.2	6311.7	6311.7	6308.1	6308.1
32.5°	5800.4	5771.6	5739.2	5710.4	5699.6	5685.2	5678.0	5667.1	5649.2	5638.4	5641.9
35°	5119.8	5055.0	5015.5	4979.5	4950.7	4929.0	4918.3	4907.4	4903.9	4889.5	4875.0
37.5°	4270.2	4223.4	4194.6	4172.9	4147.8	4126.2	4129.7	4133.4	4144.1	4136.9	4140.5
40°	3370.1	3359.2	3370.1	3344.8	3337.6	3344.8	3362.8	3388.1	3402.5	3416.9	3442.0
42.5°	2563.5	2581.4	2606.8	2606.8	2617.5	2632.0	2653.5	2693.2	2714.7	2739.9	2768.8
45°	1929.8	1951.4	1983.9	1994.6	2001.9	2019.8	2045.2	2077.4	2091.8	2113.4	2138.6
47.5°	1487.0	1501.4	1519.3	1537.5	1555.4	1562.6	1587.8	1587.8	1605.8	1620.3	1627.4
50°	1159.3	1173.7	1188.1	1198.9	1206.2	1217.0	1224.1	1234.9	1238.5	1245.8	1249.4
52.5°	907.2	925.4	925.4	932.4	943.3	954.1	950.5	954.1	957.7	957.7	968.4
55°	709.3	709.3	720.1	720.1	727.3	723.6	727.3	727.3	727.3	727.3	730.9
57.5°	529.2	532.9	543.7	536.5	532.9	540.0	532.9	540.0	536.5	543.7	532.9
60°	406.8	406.8	410.5	410.5	414.1	414.1	414.1	410.5	410.5	406.8	406.8
62.5°	306.0	309.6	313.3	309.6	309.6	309.6	306.0	306.0	302.4	298.7	298.7
65°	205.3	201.7	208.8	201.7	205.3	205.3	201.7	205.3	194.4	198.0	194.4
67.5°	147.6	144.0	140.5	144.0	140.5	136.8	136.8	140.5	144.0	133.2	133.2
70°	97.2	100.8	97.2	100.8	104.5	104.5	100.8	97.2	100.8	93.7	97.2
72.5°	61.2	61.2	61.2	61.2	61.2	64.8	64.8	64.8	57.6	57.6	53.9
75°	28.7	39.6	32.5	28.7	39.6	39.6	36.0	36.0	32.5	32.5	32.5
77.5°	28.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6	17.9	21.6	17.9
80°	14.3	14.3	14.3	10.9	14.3	14.3	17.9	14.3	14.3	10.9	17.9
82.5°	7.3	7.3	7.3	0.0	3.6	7.3	7.3	3.6	7.3	7.3	3.6
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: P248863

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7
2.5°	7456.6	7453.1	7456.6	7460.1	7456.6	7453.1	7456.6	7460.1	7445.8	7442.2	7449.4
5°	7615.1	7615.1	7622.1	7625.8	7622.1	7615.1	7615.1	7600.6	7589.8	7579.0	7575.5
7.5°	7751.8	7759.1	7766.2	7769.8	7766.2	7759.1	7751.8	7730.2	7708.6	7690.6	7676.3
10°	7834.7	7845.4	7859.9	7867.0	7859.9	7845.4	7834.7	7809.4	7780.5	7751.8	7730.2
12.5°	7870.7	7881.5	7899.5	7895.9	7899.5	7881.5	7870.7	7834.7	7802.2	7762.6	7730.2
15°	7845.4	7859.9	7877.8	7885.0	7877.8	7859.9	7845.4	7809.4	7780.5	7737.5	7705.0
17.5°	7766.2	7787.8	7798.7	7809.4	7798.7	7787.8	7766.2	7737.5	7697.9	7661.8	7629.4
20°	7658.1	7672.7	7687.0	7690.6	7687.0	7672.7	7658.1	7625.8	7564.6	7557.3	7532.2
22.5°	7503.4	7514.3	7546.6	7535.7	7546.6	7514.3	7503.4	7474.5	7453.1	7413.3	7388.2
25°	7280.1	7290.9	7294.6	7298.2	7294.6	7290.9	7280.1	7254.9	7233.4	7204.6	7190.1
27.5°	6894.9	6894.9	6902.0	6905.8	6902.0	6894.9	6894.9	6876.9	6862.4	6848.1	6833.7
30°	6311.7	6311.7	6311.7	6329.7	6311.7	6311.7	6311.7	6308.1	6308.1	6311.7	6311.7
32.5°	5638.4	5631.1	5623.9	5631.1	5623.9	5631.1	5638.4	5641.9	5638.4	5649.2	5667.1
35°	4875.0	4871.4	4882.3	4867.8	4882.3	4871.4	4875.0	4875.0	4889.5	4903.9	4907.4
37.5°	4144.1	4136.9	4151.3	4136.9	4151.3	4136.9	4144.1	4140.5	4136.9	4144.1	4133.4
40°	3449.3	3456.4	3456.4	3485.3	3456.4	3456.4	3449.3	3442.0	3416.9	3402.5	3388.1
42.5°	2783.2	2804.9	2797.6	2819.2	2797.6	2804.9	2783.2	2768.8	2739.9	2714.7	2693.2
45°	2153.0	2167.6	2167.6	2174.6	2167.6	2167.6	2153.0	2138.6	2113.4	2091.8	2077.4
47.5°	1652.6	1652.6	1652.6	1656.3	1652.6	1652.6	1652.6	1627.4	1620.3	1605.8	1587.8
50°	1256.5	1260.1	1263.8	1267.4	1263.8	1260.1	1256.5	1249.4	1245.8	1238.5	1234.9
52.5°	965.0	968.4	961.4	968.4	961.4	968.4	965.0	968.4	957.7	957.7	954.1
55°	730.9	727.3	730.9	734.5	730.9	727.3	730.9	730.9	727.3	727.3	727.3
57.5°	536.5	529.2	529.2	529.2	529.2	529.2	536.5	532.9	543.7	536.5	540.0
60°	399.6	403.2	403.2	406.8	403.2	403.2	399.6	406.8	406.8	410.5	410.5
62.5°	295.2	306.0	298.7	306.0	298.7	306.0	295.2	298.7	298.7	302.4	306.0
65°	190.9	190.9	190.9	194.4	190.9	190.9	190.9	194.4	198.0	194.4	205.3
67.5°	129.7	133.2	140.5	136.8	140.5	133.2	129.7	133.2	133.2	144.0	140.5
70°	104.5	93.7	93.7	104.5	93.7	93.7	104.5	97.2	93.7	100.8	97.2
72.5°	61.2	53.9	61.2	61.2	61.2	53.9	61.2	53.9	57.6	57.6	64.8
75°	32.5	28.7	25.2	36.0	25.2	28.7	32.5	32.5	32.5	32.5	36.0
77.5°	21.6	17.9	25.2	25.2	25.2	17.9	21.6	17.9	21.6	17.9	21.6
80°	10.9	14.3	10.9	17.9	10.9	14.3	10.9	17.9	10.9	14.3	14.3
82.5°	3.6	7.3	7.3	7.3	7.3	7.3	3.6	3.6	7.3	7.3	3.6
85°	0.0	7.3	3.6	3.6	3.6	7.3	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	0.0	0.0	3.6	0.0	0.0	3.6	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: P248863

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7
2.5°	7449.4	7438.5	7442.2	7420.6	7420.6	7413.3	7417.0	7398.9	7391.9	7384.6	7395.3
5°	7557.3	7539.4	7524.9	7492.7	7474.5	7453.1	7442.2	7413.3	7388.2	7366.5	7363.0
7.5°	7643.8	7604.2	7579.0	7535.7	7503.4	7478.2	7442.2	7402.5	7370.2	7341.3	7319.8
10°	7679.7	7640.2	7600.6	7546.6	7510.6	7463.7	7427.7	7377.3	7334.1	7294.6	7269.2
12.5°	7683.3	7633.0	7596.9	7535.7	7489.0	7438.5	7398.9	7341.3	7290.9	7251.3	7211.7
15°	7651.0	7604.2	7560.9	7496.1	7449.4	7402.5	7355.8	7294.6	7247.8	7201.0	7172.3
17.5°	7579.0	7535.7	7485.4	7424.2	7381.0	7337.7	7287.4	7237.0	7182.9	7132.5	7096.5
20°	7485.4	7438.5	7395.3	7334.1	7298.2	7251.3	7204.6	7150.5	7107.3	7056.9	7017.3
22.5°	7345.0	7301.7	7262.2	7226.2	7168.5	7132.5	7100.2	7039.0	6995.7	6948.9	6905.8
25°	7143.3	7100.2	7067.7	7024.4	6999.3	6959.7	6927.2	6873.3	6833.7	6790.5	6754.5
27.5°	6812.1	6786.9	6768.8	6743.6	6722.2	6704.0	6686.1	6642.8	6614.1	6574.6	6538.6
30°	6315.2	6311.7	6300.8	6290.0	6304.4	6304.4	6304.4	6297.2	6272.1	6243.2	6218.0
32.5°	5678.0	5685.2	5699.6	5710.4	5739.2	5771.6	5800.4	5814.7	5814.7	5796.8	5785.9
35°	4918.3	4929.0	4950.7	4979.5	5015.5	5055.0	5119.8	5134.3	5145.1	5145.1	5130.6
37.5°	4129.7	4126.2	4147.8	4172.9	4194.6	4223.4	4270.2	4281.0	4298.9	4291.9	4277.3
40°	3362.8	3344.8	3337.6	3344.8	3370.1	3359.2	3370.1	3362.8	3362.8	3337.6	3337.6
42.5°	2653.5	2632.0	2617.5	2606.8	2606.8	2581.4	2563.5	2545.6	2534.8	2516.8	2513.2
45°	2045.2	2019.8	2001.9	1994.6	1983.9	1951.4	1929.8	1908.2	1883.1	1875.9	1879.5
47.5°	1587.8	1562.6	1555.4	1537.5	1519.3	1501.4	1487.0	1461.8	1458.1	1443.7	1458.1
50°	1224.1	1217.0	1206.2	1198.9	1188.1	1173.7	1159.3	1145.0	1137.7	1137.7	1141.3
52.5°	950.5	954.1	943.3	932.4	925.4	925.4	907.2	903.8	903.8	889.3	903.8
55°	727.3	723.6	727.3	720.1	720.1	709.3	709.3	698.5	698.5	687.6	694.9
57.5°	532.9	540.0	532.9	536.5	543.7	532.9	529.2	518.4	525.6	518.4	522.0
60°	414.1	414.1	414.1	410.5	410.5	406.8	406.8	403.2	403.2	395.9	403.2
62.5°	306.0	309.6	309.6	309.6	313.3	309.6	306.0	309.6	306.0	306.0	309.6
65°	201.7	205.3	205.3	201.7	208.8	201.7	205.3	208.8	212.3	208.8	212.3
67.5°	136.8	136.8	140.5	144.0	140.5	144.0	147.6	144.0	147.6	154.9	147.6
70°	100.8	104.5	104.5	100.8	97.2	100.8	97.2	108.1	108.1	108.1	115.1
72.5°	64.8	64.8	61.2	61.2	61.2	61.2	61.2	72.1	64.8	61.2	68.5
75°	36.0	39.6	39.6	28.7	32.5	39.6	28.7	32.5	43.3	36.0	43.3
77.5°	21.6	21.6	21.6	21.6	21.6	21.6	28.7	25.2	25.2	25.2	28.7
80°	17.9	14.3	14.3	10.9	14.3	14.3	14.3	21.6	17.9	17.9	21.6
82.5°	7.3	7.3	3.6	0.0	7.3	7.3	7.3	7.3	7.3	7.3	14.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	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: P248863

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7
2.5°	7366.5	7366.5	7363.0	7355.8	7341.3	7341.3	7337.7	7327.0	7319.8	7316.1	7316.1
5°	7330.4	7316.1	7301.7	7262.2	7262.2	7254.9	7233.4	7218.9	7211.7	7193.7	7186.6
7.5°	7298.2	7254.9	7229.7	7204.6	7172.3	7157.7	7132.5	7121.7	7096.5	7078.6	7067.7
10°	7218.9	7190.1	7157.7	7118.1	7092.9	7064.2	7035.3	7013.8	6981.4	6963.2	6948.9
12.5°	7165.0	7121.7	7092.9	7049.6	7006.5	6981.4	6941.8	6916.6	6884.1	6848.1	6826.4
15°	7114.5	7067.7	7028.1	6981.4	6934.5	6905.8	6859.0	6830.1	6783.4	6747.3	6722.2
17.5°	7039.0	6999.3	6956.1	6898.5	6855.4	6819.4	6768.8	6733.0	6689.7	6642.8	6617.7
20°	6959.7	6912.9	6869.7	6812.1	6768.8	6725.7	6675.3	6635.8	6585.2	6542.0	6513.3
22.5°	6855.4	6801.2	6765.2	6707.6	6657.2	6610.5	6563.7	6516.9	6470.1	6434.1	6401.6
25°	6704.0	6646.4	6606.8	6560.0	6513.3	6477.4	6419.6	6390.9	6344.1	6311.7	6279.2
27.5°	6488.0	6444.9	6408.9	6362.0	6322.4	6293.7	6250.5	6221.7	6182.0	6153.2	6128.1
30°	6171.3	6135.2	6102.8	6056.0	6027.3	6002.1	5962.4	5937.2	5908.3	5875.9	5868.8
32.5°	5746.4	5717.5	5685.2	5652.8	5631.1	5616.8	5584.3	5569.9	5541.1	5523.1	5505.1
35°	5105.5	5080.3	5062.3	5048.0	5040.7	5044.3	5037.1	5051.5	5058.6	5055.0	5058.6
37.5°	4266.6	4252.1	4259.4	4270.2	4306.2	4353.1	4396.1	4460.9	4504.2	4547.4	4587.0
40°	3330.5	3341.3	3370.1	3434.7	3528.5	3632.9	3730.1	3852.5	3975.0	4061.4	4140.5
42.5°	2513.2	2545.6	2617.5	2711.1	2851.6	3006.4	3157.6	3337.6	3485.3	3629.2	3730.1
45°	1890.2	1933.4	2027.1	2156.7	2311.5	2491.5	2682.4	2884.0	3060.4	3208.1	3319.6
47.5°	1472.7	1512.2	1605.8	1742.7	1933.4	2120.7	2318.7	2527.5	2711.1	2855.2	2952.4
50°	1162.9	1213.3	1296.1	1440.1	1631.1	1829.0	2034.3	2239.4	2412.4	2534.8	2621.2
52.5°	914.5	961.4	1040.5	1191.8	1386.2	1584.2	1775.0	1976.7	2127.9	2246.7	2304.3
55°	709.3	752.5	835.3	961.4	1145.0	1339.4	1530.2	1703.1	1843.5	1929.8	1983.9
57.5°	540.0	572.5	630.1	756.1	921.8	1101.7	1263.8	1436.7	1544.6	1605.8	1641.7
60°	410.5	435.7	496.9	594.1	745.2	900.2	1036.9	1166.6	1253.1	1303.4	1339.4
62.5°	309.6	338.4	381.6	464.4	579.6	705.7	820.9	918.1	990.1	1022.6	1047.8
65°	212.3	234.0	266.5	331.3	428.4	518.4	608.5	680.6	727.3	763.4	777.7
67.5°	158.4	172.7	190.9	241.2	309.6	381.6	442.8	493.2	543.7	558.1	583.3
70°	118.8	129.7	147.6	183.6	223.2	273.5	324.1	352.9	388.9	414.1	421.4
72.5°	75.6	79.1	97.2	118.8	151.1	183.6	216.1	241.2	262.9	277.3	284.4
75°	43.3	64.8	64.8	86.4	108.1	122.4	144.0	162.0	172.7	183.6	183.6
77.5°	28.7	39.6	43.3	53.9	64.8	82.8	100.8	111.5	122.4	126.0	126.0
80°	25.2	28.7	28.7	39.6	46.9	61.2	72.1	75.6	82.8	86.4	93.7
82.5°	10.9	14.3	17.9	28.7	32.5	32.5	43.3	46.9	53.9	57.6	57.6
85°	3.6	7.3	7.3	10.9	17.9	21.6	25.2	28.7	32.5	32.5	36.0
87.5°	3.6	3.6	0.0	3.6	7.3	7.3	14.3	14.3	14.3	21.6	21.6
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: P248863

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7	7373.7
2.5°	7309.0	7312.5	7298.2	7294.6	7287.4	7290.9	7298.2
5°	7175.7	7179.3	7165.0	7150.5	7150.5	7146.8	7150.5
7.5°	7049.6	7053.3	7031.7	7024.4	7010.1	7013.8	7013.8
10°	6923.6	6923.6	6891.3	6887.6	6876.9	6873.3	6873.3
12.5°	6801.2	6790.5	6765.2	6750.9	6758.2	6736.5	6736.5
15°	6693.3	6675.3	6642.8	6632.1	6614.1	6606.8	6606.8
17.5°	6581.6	6567.3	6538.6	6516.9	6495.3	6491.7	6495.3
20°	6473.6	6459.2	6423.2	6408.9	6390.9	6390.9	6383.6
22.5°	6365.6	6351.2	6318.9	6308.1	6282.9	6282.9	6286.5
25°	6253.9	6243.2	6207.2	6200.0	6196.4	6182.0	6189.3
27.5°	6102.8	6095.5	6066.9	6056.0	6041.6	6038.0	6045.2
30°	5825.5	5814.7	5793.2	5782.5	5757.2	5760.8	5767.9
32.5°	5479.9	5465.5	5436.6	5425.9	5404.3	5397.1	5400.6
35°	5048.0	5037.1	5011.9	5011.9	4990.2	4983.1	4990.2
37.5°	4608.7	4619.3	4608.7	4619.3	4608.7	4605.0	4608.7
40°	4194.6	4234.1	4241.3	4281.0	4266.6	4288.2	4284.6
42.5°	3798.5	3863.2	3888.5	3920.9	3913.7	3928.1	3939.0
45°	3398.8	3452.9	3478.0	3499.8	3503.2	3510.5	3514.1
47.5°	3020.8	3064.0	3067.6	3092.7	3089.3	3089.3	3100.0
50°	2668.0	2696.8	2703.9	2722.0	2707.6	2700.4	2703.9
52.5°	2340.3	2369.1	2361.8	2369.1	2351.2	2343.9	2347.5
55°	2005.5	2019.8	2019.8	2019.8	1998.3	1998.3	1998.3
57.5°	1663.3	1667.0	1659.9	1663.3	1659.9	1638.2	1634.6
60°	1350.2	1350.2	1346.5	1350.2	1339.4	1328.6	1328.6
62.5°	1054.9	1062.1	1076.5	1062.1	1054.9	1062.1	1051.3
65°	788.5	803.0	799.3	806.4	803.0	803.0	795.7
67.5°	594.1	597.7	601.2	604.9	604.9	604.9	604.9
70°	435.7	446.5	442.8	442.8	442.8	442.8	464.4
72.5°	291.7	306.0	302.4	309.6	309.6	316.8	309.6
75°	198.0	212.3	205.3	216.1	212.3	205.3	223.2
77.5°	133.2	140.5	144.0	147.6	144.0	140.5	144.0
80°	93.7	100.8	97.2	100.8	100.8	100.8	104.5
82.5°	57.6	68.5	64.8	68.5	64.8	68.5	68.5
85°	39.6	43.3	36.0	43.3	39.6	39.6	46.9
87.5°	25.2	21.6	21.6	25.2	21.6	25.2	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)