

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: P248773

Luminaire Tested: **LD8B150D010 ER8B150830 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248773
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 ER8B150830 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14463.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

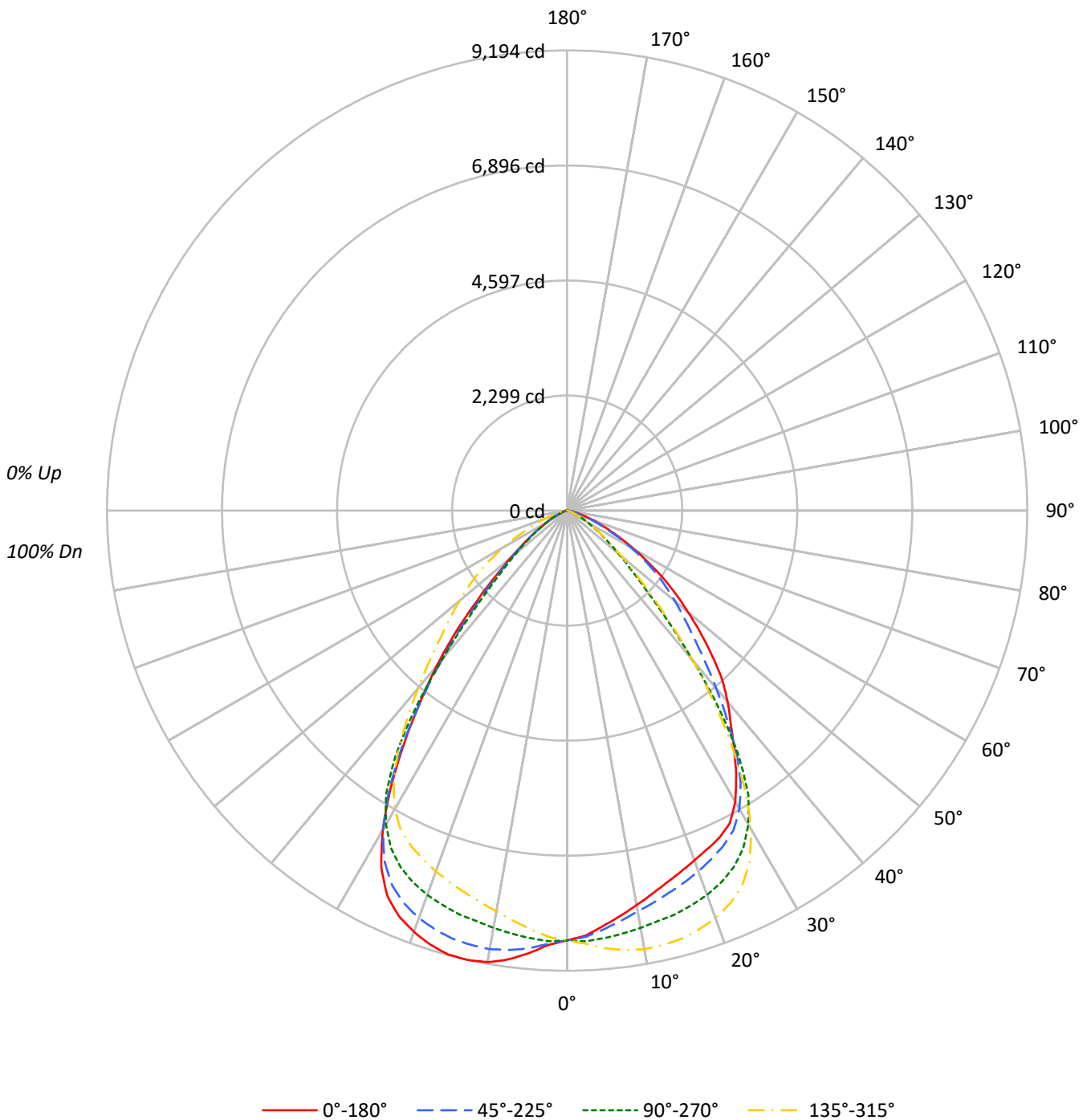
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	264767	264767	264767	264767
5°	257733	265388	274866	265388
10°	250606	265044	286834	265044
15°	245598	266614	293114	266614
20°	243926	268141	293868	268141
25°	245208	267603	289144	267603
30°	239145	257807	262439	257807
35°	218743	224898	213379	224898
40°	200831	156443	163367	156443
45°	178444	95439	110427	95439
50°	151042	63751	70798	63751
55°	125098	43504	45977	43504
60°	95414	28961	29214	28961
65°	67602	18044	16519	18044
70°	48758	12090	10972	12090
75°	30965	6005	4992	6005
80°	21611	4475	3711	4475
85°	19282	0	1451	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.2	5.7
10°-20°	2366.6	16.4
20°-30°	3583.5	24.8
30°-40°	3591.6	24.8
40°-50°	2255.3	15.6
50°-60°	1201.9	8.3
60°-70°	494.2	3.4
70°-80°	130.6	0.9
80°-90°	22.1	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6767.4	46.8
0°-40°	10358.9	71.6
0°-60°	13816.1	95.5
0°-90°	14463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14463.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8586	8586	8586	8586	8586	
5°	8326	8574	8880	8574	8326	785
15°	7693	8352	9182	8352	7693	2176
25°	7207	7865	8498	7865	7207	3305
35°	5811	5974	5668	5974	5811	3640
45°	4092	2188	2532	2188	4092	3147
55°	2327	809	855	809	2327	2075
65°	926	247	226	247	926	961
75°	260	50	42	50	260	294
85°	54	0	4	0	54	60
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°	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2
2.5°	8498.2	8489.8	8485.6	8494.1	8498.2	8515.0	8510.8	8519.1	8519.1	8523.4	8531.7
5°	8326.3	8322.0	8326.3	8326.3	8343.1	8359.8	8355.7	8368.3	8376.6	8397.6	8405.9
7.5°	8167.1	8167.1	8162.7	8179.5	8187.9	8213.1	8208.8	8229.9	8242.5	8263.4	8292.7
10°	8003.5	8003.5	8007.6	8020.2	8024.5	8062.1	8062.1	8091.5	8108.2	8129.3	8167.1
12.5°	7844.2	7844.2	7869.4	7860.9	7877.7	7907.0	7919.6	7948.9	7974.1	8016.1	8053.9
15°	7693.2	7693.2	7701.6	7722.5	7735.1	7772.9	7793.8	7827.4	7856.8	7898.7	7953.3
17.5°	7563.3	7559.1	7563.3	7588.4	7613.6	7647.1	7663.9	7705.8	7735.1	7789.7	7840.0
20°	7433.3	7441.8	7441.8	7462.6	7479.4	7521.3	7538.1	7584.3	7617.8	7668.0	7726.8
22.5°	7320.1	7316.0	7316.0	7345.3	7357.9	7395.5	7412.3	7454.2	7492.0	7533.9	7588.4
25°	7206.9	7198.4	7215.4	7219.5	7227.8	7269.7	7282.3	7311.6	7349.4	7387.2	7441.8
27.5°	7039.2	7030.9	7035.0	7051.8	7064.4	7097.8	7106.3	7135.6	7165.0	7198.4	7244.7
30°	6716.3	6708.0	6703.9	6733.2	6745.8	6770.8	6783.4	6833.8	6842.1	6879.9	6913.4
32.5°	6288.7	6284.5	6293.0	6318.0	6330.6	6364.3	6381.0	6410.3	6431.2	6452.3	6485.7
35°	5810.8	5802.4	5810.8	5836.0	5836.0	5865.4	5878.0	5890.4	5886.2	5890.4	5882.1
37.5°	5366.5	5362.2	5366.5	5378.9	5366.5	5378.9	5366.5	5341.3	5295.2	5244.8	5194.4
40°	4989.1	4993.2	4968.2	4984.9	4938.7	4930.4	4884.3	4821.3	4729.2	4628.6	4486.0
42.5°	4586.6	4574.1	4557.3	4565.6	4528.0	4498.5	4423.1	4343.5	4226.0	4058.4	3886.4
45°	4091.9	4087.8	4079.3	4075.2	4050.0	4020.6	3957.6	3865.5	3735.5	3563.7	3358.1
47.5°	3609.7	3597.2	3597.2	3601.3	3572.0	3567.8	3517.4	3437.9	3324.7	3156.9	2943.1
50°	3148.5	3144.3	3152.8	3169.5	3148.5	3140.2	3106.7	3052.2	2951.6	2809.0	2607.7
52.5°	2733.5	2729.3	2737.8	2758.7	2750.2	2758.7	2725.2	2683.2	2616.1	2477.7	2301.7
55°	2326.9	2326.9	2326.9	2351.9	2351.9	2351.9	2335.2	2310.1	2247.2	2146.6	1983.1
57.5°	1903.4	1907.6	1932.7	1936.9	1932.7	1941.2	1936.9	1911.7	1869.9	1798.7	1672.9
60°	1547.1	1547.1	1559.7	1572.3	1567.9	1572.3	1572.3	1559.7	1517.7	1459.1	1358.4
62.5°	1224.2	1236.8	1228.3	1236.8	1253.5	1236.8	1228.3	1220.0	1190.7	1152.9	1069.1
65°	926.5	935.0	935.0	939.1	930.7	935.0	918.2	905.6	888.9	847.0	792.4
67.5°	704.4	704.4	704.4	704.4	700.1	696.0	691.8	679.2	649.9	633.1	574.3
70°	540.8	515.6	515.6	515.6	515.6	519.9	507.3	490.6	482.2	452.8	410.9
72.5°	360.5	368.9	360.5	360.5	352.2	356.4	339.6	331.2	322.9	306.1	280.9
75°	259.9	239.0	247.3	251.6	239.0	247.3	230.5	213.8	213.8	201.2	188.6
77.5°	167.7	163.6	167.7	171.9	167.7	163.6	155.1	146.7	146.7	142.5	129.9
80°	121.7	117.3	117.3	117.3	113.2	117.3	109.1	109.1	100.6	96.5	88.0
82.5°	79.7	79.7	75.4	79.7	75.4	79.7	67.1	67.1	67.1	62.8	54.5
85°	54.5	46.1	46.1	50.4	41.9	50.4	46.1	41.9	37.8	37.8	33.5
87.5°	25.2	29.3	25.2	29.3	25.2	25.2	29.3	25.2	25.2	16.7	16.7
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°	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2
2.5°	8544.3	8548.4	8548.4	8565.3	8573.6	8577.8	8577.8	8611.4	8598.8	8607.3	8615.6
5°	8422.8	8447.8	8456.3	8456.3	8502.4	8519.1	8535.8	8573.6	8577.8	8603.0	8632.3
7.5°	8305.3	8334.6	8351.5	8389.2	8418.5	8447.8	8498.2	8523.4	8548.4	8582.1	8619.7
10°	8192.1	8225.7	8259.2	8288.5	8334.6	8372.4	8405.9	8464.6	8494.1	8540.1	8590.4
12.5°	8083.2	8129.3	8158.6	8208.8	8259.2	8292.7	8343.1	8397.6	8443.7	8489.8	8548.4
15°	7986.7	8041.3	8074.7	8129.3	8183.8	8229.9	8284.4	8351.5	8385.0	8439.5	8494.1
17.5°	7881.8	7940.7	7982.6	8032.8	8099.9	8150.1	8196.4	8263.4	8305.3	8364.0	8426.9
20°	7772.9	7831.6	7881.8	7932.2	7999.3	8049.5	8104.1	8171.2	8217.3	8276.0	8326.3
22.5°	7643.0	7697.5	7751.9	7810.5	7877.7	7919.6	7982.6	8041.3	8091.5	8146.0	8196.4
25°	7475.2	7542.4	7584.3	7638.7	7693.2	7739.3	7806.4	7865.1	7907.0	7957.4	8003.5
27.5°	7278.2	7328.6	7362.0	7408.1	7462.6	7504.6	7554.8	7613.6	7655.6	7701.6	7735.1
30°	6942.7	6988.9	7018.3	7051.8	7106.3	7144.1	7186.0	7240.4	7269.7	7303.4	7332.7
32.5°	6502.5	6540.3	6557.0	6582.2	6620.0	6657.6	6691.3	6737.3	6749.9	6770.8	6770.8
35°	5865.4	5873.7	5869.5	5878.0	5894.7	5915.6	5944.9	5974.3	5991.0	5991.0	5978.6
37.5°	5119.0	5068.8	5014.3	4972.3	4959.7	4951.3	4968.2	4980.6	4997.5	5005.8	4984.9
40°	4343.5	4230.3	4108.6	3999.6	3924.2	3890.7	3878.1	3886.4	3886.4	3915.7	3915.7
42.5°	3676.9	3500.7	3320.5	3156.9	3047.9	2964.2	2926.4	2926.4	2930.5	2951.6	2964.2
45°	3123.5	2901.2	2691.5	2511.4	2360.4	2251.3	2201.1	2188.5	2184.3	2192.6	2222.0
47.5°	2700.0	2469.4	2251.3	2029.2	1869.9	1760.9	1714.8	1697.9	1681.1	1697.9	1702.2
50°	2368.8	2129.8	1899.3	1677.0	1509.3	1412.8	1354.1	1328.9	1324.8	1324.8	1333.2
52.5°	2066.8	1844.7	1614.2	1387.8	1211.6	1119.4	1064.9	1052.3	1035.6	1052.3	1052.3
55°	1781.8	1559.7	1333.2	1119.4	972.6	876.3	825.9	809.2	800.7	813.3	813.3
57.5°	1471.6	1282.9	1073.4	880.4	733.8	666.6	628.8	608.0	603.6	612.1	603.6
60°	1207.4	1048.2	867.8	691.8	578.6	507.3	478.0	469.6	461.1	469.6	469.6
62.5°	955.8	821.8	674.9	540.8	444.4	394.1	360.5	360.5	356.4	356.4	360.5
65°	708.6	603.6	498.9	385.7	310.3	272.5	247.3	247.3	243.1	247.3	243.1
67.5°	515.6	444.4	360.5	280.9	222.3	201.2	184.5	171.9	180.3	171.9	167.7
70°	377.4	318.6	259.9	213.8	171.9	151.0	138.4	134.1	125.8	125.8	125.8
72.5°	251.6	213.8	176.0	138.4	113.2	92.2	88.0	79.7	71.3	75.4	83.9
75°	167.7	142.5	125.8	100.6	75.4	75.4	50.4	50.4	41.9	50.4	37.8
77.5°	117.3	96.5	75.4	62.8	50.4	46.1	33.5	33.5	29.3	29.3	29.3
80°	83.9	71.3	54.5	46.1	33.5	33.5	29.3	25.2	20.9	20.9	25.2
82.5°	50.4	37.8	37.8	33.5	20.9	16.7	12.6	16.7	8.5	8.5	8.5
85°	29.3	25.2	20.9	12.6	8.5	8.5	4.1	0.0	4.1	4.1	0.0
87.5°	16.7	8.5	8.5	4.1	0.0	4.1	4.1	0.0	0.0	0.0	8.5
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°	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2
2.5°	8636.6	8632.3	8640.8	8640.8	8666.0	8661.6	8674.2	8674.2	8666.0	8670.1	8686.8
5°	8666.0	8678.5	8703.6	8724.6	8762.2	8779.2	8800.0	8821.1	8825.2	8837.8	8850.4
7.5°	8666.0	8707.9	8737.2	8774.8	8825.2	8854.6	8900.6	8938.4	8955.2	8976.1	9001.2
10°	8649.0	8691.0	8745.5	8787.4	8850.4	8896.5	8942.6	9001.2	9026.4	9059.9	9093.6
12.5°	8615.6	8661.6	8720.3	8774.8	8846.1	8888.0	8946.7	9001.2	9039.0	9085.1	9122.9
15°	8565.3	8619.7	8674.2	8728.8	8804.2	8854.6	8909.1	8971.9	9009.7	9059.9	9093.6
17.5°	8485.6	8544.3	8594.7	8644.9	8716.2	8774.8	8825.2	8883.9	8921.7	8963.6	9009.7
20°	8389.2	8443.7	8498.2	8540.1	8611.4	8661.6	8716.2	8770.7	8800.0	8808.5	8879.8
22.5°	8267.7	8305.3	8347.2	8414.3	8456.3	8502.4	8552.7	8603.0	8632.3	8678.5	8703.6
25°	8066.3	8104.1	8150.1	8179.5	8229.9	8267.7	8317.9	8372.4	8389.2	8422.8	8447.8
27.5°	7785.5	7806.4	7827.4	7852.5	7881.8	7902.9	7932.2	7957.4	7974.1	7990.9	8007.6
30°	7341.0	7341.0	7341.0	7324.2	7336.8	7349.4	7353.6	7349.4	7349.4	7345.3	7345.3
32.5°	6754.1	6720.6	6682.8	6649.3	6636.7	6620.0	6611.5	6598.9	6578.1	6565.5	6569.6
35°	5961.7	5886.2	5840.2	5798.2	5764.8	5739.6	5727.0	5714.4	5710.2	5693.5	5676.6
37.5°	4972.3	4917.8	4884.3	4859.1	4829.8	4804.6	4808.7	4813.1	4825.5	4817.2	4821.3
40°	3924.2	3911.6	3924.2	3894.8	3886.4	3894.8	3915.7	3945.2	3962.0	3978.7	4008.0
42.5°	2985.1	3005.9	3035.4	3035.4	3047.9	3064.8	3089.8	3136.1	3161.1	3190.4	3224.1
45°	2247.2	2272.4	2310.1	2322.6	2331.0	2351.9	2381.4	2419.0	2435.8	2461.0	2490.3
47.5°	1731.5	1748.3	1769.2	1790.2	1811.1	1819.5	1848.9	1848.9	1869.9	1886.7	1895.0
50°	1350.0	1366.7	1383.5	1396.1	1404.5	1417.1	1425.4	1438.0	1442.1	1450.6	1454.7
52.5°	1056.5	1077.5	1077.5	1085.8	1098.4	1111.0	1106.8	1111.0	1115.1	1115.1	1127.7
55°	825.9	825.9	838.5	838.5	847.0	842.6	847.0	847.0	847.0	847.0	851.1
57.5°	616.2	620.5	633.1	624.7	620.5	628.8	620.5	628.8	624.7	633.1	620.5
60°	473.7	473.7	478.0	478.0	482.2	482.2	482.2	478.0	478.0	473.7	473.7
62.5°	356.4	360.5	364.8	360.5	360.5	360.5	356.4	356.4	352.2	347.9	347.9
65°	239.0	234.9	243.1	234.9	239.0	239.0	234.9	239.0	226.4	230.5	226.4
67.5°	171.9	167.7	163.6	167.7	163.6	159.3	159.3	163.6	167.7	155.1	155.1
70°	113.2	117.3	113.2	117.3	121.7	121.7	117.3	113.2	117.3	109.1	113.2
72.5°	71.3	71.3	71.3	71.3	71.3	75.4	75.4	75.4	67.1	67.1	62.8
75°	33.5	46.1	37.8	33.5	46.1	46.1	41.9	41.9	37.8	37.8	37.8
77.5°	33.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2	20.9	25.2	20.9
80°	16.7	16.7	16.7	12.6	16.7	16.7	20.9	16.7	16.7	12.6	20.9
82.5°	8.5	8.5	8.5	0.0	4.1	8.5	8.5	4.1	8.5	8.5	4.1
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: P248773

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2
2.5°	8682.7	8678.5	8682.7	8686.8	8682.7	8678.5	8682.7	8686.8	8670.1	8666.0	8674.2
5°	8867.2	8867.2	8875.4	8879.8	8875.4	8867.2	8867.2	8850.4	8837.8	8825.2	8821.1
7.5°	9026.4	9034.9	9043.2	9047.3	9043.2	9034.9	9026.4	9001.2	8976.1	8955.2	8938.4
10°	9122.9	9135.5	9152.2	9160.5	9152.2	9135.5	9122.9	9093.6	9059.9	9026.4	9001.2
12.5°	9164.8	9177.4	9198.3	9194.2	9198.3	9177.4	9164.8	9122.9	9085.1	9039.0	9001.2
15°	9135.5	9152.2	9173.1	9181.6	9173.1	9152.2	9135.5	9093.6	9059.9	9009.7	8971.9
17.5°	9043.2	9068.4	9081.0	9093.6	9081.0	9068.4	9043.2	9009.7	8963.6	8921.7	8883.9
20°	8917.4	8934.3	8951.0	8955.2	8951.0	8934.3	8917.4	8879.8	8808.5	8800.0	8770.7
22.5°	8737.2	8749.8	8787.4	8774.8	8787.4	8749.8	8737.2	8703.6	8678.5	8632.3	8603.0
25°	8477.2	8489.8	8494.1	8498.2	8494.1	8489.8	8477.2	8447.8	8422.8	8389.2	8372.4
27.5°	8028.7	8028.7	8036.9	8041.3	8036.9	8028.7	8028.7	8007.6	7990.9	7974.1	7957.4
30°	7349.4	7349.4	7349.4	7370.5	7349.4	7349.4	7349.4	7345.3	7345.3	7349.4	7349.4
32.5°	6565.5	6557.0	6548.7	6557.0	6548.7	6557.0	6565.5	6569.6	6565.5	6578.1	6598.9
35°	5676.6	5672.4	5685.0	5668.3	5685.0	5672.4	5676.6	5676.6	5693.5	5710.2	5714.4
37.5°	4825.5	4817.2	4833.9	4817.2	4833.9	4817.2	4825.5	4821.3	4817.2	4825.5	4813.1
40°	4016.5	4024.8	4024.8	4058.4	4024.8	4024.8	4016.5	4008.0	3978.7	3962.0	3945.2
42.5°	3240.8	3266.0	3257.5	3282.7	3257.5	3266.0	3240.8	3224.1	3190.4	3161.1	3136.1
45°	2507.0	2524.0	2524.0	2532.2	2524.0	2524.0	2507.0	2490.3	2461.0	2435.8	2419.0
47.5°	1924.3	1924.3	1924.3	1928.6	1924.3	1924.3	1924.3	1895.0	1886.7	1869.9	1848.9
50°	1463.2	1467.3	1471.6	1475.8	1471.6	1467.3	1463.2	1454.7	1450.6	1442.1	1438.0
52.5°	1123.6	1127.7	1119.4	1127.7	1119.4	1127.7	1123.6	1127.7	1115.1	1115.1	1111.0
55°	851.1	847.0	851.1	855.2	851.1	847.0	851.1	851.1	847.0	847.0	847.0
57.5°	624.7	616.2	616.2	616.2	616.2	616.2	624.7	620.5	633.1	624.7	628.8
60°	465.4	469.6	469.6	473.7	469.6	469.6	465.4	473.7	473.7	478.0	478.0
62.5°	343.8	356.4	347.9	356.4	347.9	356.4	343.8	347.9	347.9	352.2	356.4
65°	222.3	222.3	222.3	226.4	222.3	222.3	222.3	226.4	230.5	226.4	239.0
67.5°	151.0	155.1	163.6	159.3	163.6	155.1	151.0	155.1	155.1	167.7	163.6
70°	121.7	109.1	109.1	121.7	109.1	109.1	121.7	113.2	109.1	117.3	113.2
72.5°	71.3	62.8	71.3	71.3	71.3	62.8	71.3	62.8	67.1	67.1	75.4
75°	37.8	33.5	29.3	41.9	29.3	33.5	37.8	37.8	37.8	37.8	41.9
77.5°	25.2	20.9	29.3	29.3	29.3	20.9	25.2	20.9	25.2	20.9	25.2
80°	12.6	16.7	12.6	20.9	12.6	16.7	12.6	20.9	12.6	16.7	16.7
82.5°	4.1	8.5	8.5	8.5	8.5	8.5	4.1	4.1	8.5	8.5	4.1
85°	0.0	8.5	4.1	4.1	4.1	8.5	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	0.0	0.0	4.1	0.0	0.0	4.1	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: P248773

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2
2.5°	8674.2	8661.6	8666.0	8640.8	8640.8	8632.3	8636.6	8615.6	8607.3	8598.8	8611.4
5°	8800.0	8779.2	8762.2	8724.6	8703.6	8678.5	8666.0	8632.3	8603.0	8577.8	8573.6
7.5°	8900.6	8854.6	8825.2	8774.8	8737.2	8707.9	8666.0	8619.7	8582.1	8548.4	8523.4
10°	8942.6	8896.5	8850.4	8787.4	8745.5	8691.0	8649.0	8590.4	8540.1	8494.1	8464.6
12.5°	8946.7	8888.0	8846.1	8774.8	8720.3	8661.6	8615.6	8548.4	8489.8	8443.7	8397.6
15°	8909.1	8854.6	8804.2	8728.8	8674.2	8619.7	8565.3	8494.1	8439.5	8385.0	8351.5
17.5°	8825.2	8774.8	8716.2	8644.9	8594.7	8544.3	8485.6	8426.9	8364.0	8305.3	8263.4
20°	8716.2	8661.6	8611.4	8540.1	8498.2	8443.7	8389.2	8326.3	8276.0	8217.3	8171.2
22.5°	8552.7	8502.4	8456.3	8414.3	8347.2	8305.3	8267.7	8196.4	8146.0	8091.5	8041.3
25°	8317.9	8267.7	8229.9	8179.5	8150.1	8104.1	8066.3	8003.5	7957.4	7907.0	7865.1
27.5°	7932.2	7902.9	7881.8	7852.5	7827.4	7806.4	7785.5	7735.1	7701.6	7655.6	7613.6
30°	7353.6	7349.4	7336.8	7324.2	7341.0	7341.0	7341.0	7332.7	7303.4	7269.7	7240.4
32.5°	6611.5	6620.0	6636.7	6649.3	6682.8	6720.6	6754.1	6770.8	6770.8	6749.9	6737.3
35°	5727.0	5739.6	5764.8	5798.2	5840.2	5886.2	5961.7	5978.6	5991.0	5991.0	5974.3
37.5°	4808.7	4804.6	4829.8	4859.1	4884.3	4917.8	4972.3	4984.9	5005.8	4997.5	4980.6
40°	3915.7	3894.8	3886.4	3894.8	3924.2	3911.6	3924.2	3915.7	3915.7	3886.4	3886.4
42.5°	3089.8	3064.8	3047.9	3035.4	3035.4	3005.9	2985.1	2964.2	2951.6	2930.5	2926.4
45°	2381.4	2351.9	2331.0	2322.6	2310.1	2272.4	2247.2	2222.0	2192.6	2184.3	2188.5
47.5°	1848.9	1819.5	1811.1	1790.2	1769.2	1748.3	1731.5	1702.2	1697.9	1681.1	1697.9
50°	1425.4	1417.1	1404.5	1396.1	1383.5	1366.7	1350.0	1333.2	1324.8	1324.8	1328.9
52.5°	1106.8	1111.0	1098.4	1085.8	1077.5	1077.5	1056.5	1052.3	1052.3	1035.6	1052.3
55°	847.0	842.6	847.0	838.5	838.5	825.9	825.9	813.3	813.3	800.7	809.2
57.5°	620.5	628.8	620.5	624.7	633.1	620.5	616.2	603.6	612.1	603.6	608.0
60°	482.2	482.2	482.2	478.0	478.0	473.7	473.7	469.6	469.6	461.1	469.6
62.5°	356.4	360.5	360.5	360.5	364.8	360.5	356.4	360.5	356.4	356.4	360.5
65°	234.9	239.0	239.0	234.9	243.1	234.9	239.0	243.1	247.3	243.1	247.3
67.5°	159.3	159.3	163.6	167.7	163.6	167.7	171.9	167.7	171.9	180.3	171.9
70°	117.3	121.7	121.7	117.3	113.2	117.3	113.2	125.8	125.8	125.8	134.1
72.5°	75.4	75.4	71.3	71.3	71.3	71.3	71.3	83.9	75.4	71.3	79.7
75°	41.9	46.1	46.1	33.5	37.8	46.1	33.5	37.8	50.4	41.9	50.4
77.5°	25.2	25.2	25.2	25.2	25.2	25.2	33.5	29.3	29.3	29.3	33.5
80°	20.9	16.7	16.7	12.6	16.7	16.7	16.7	25.2	20.9	20.9	25.2
82.5°	8.5	8.5	4.1	0.0	8.5	8.5	8.5	8.5	8.5	8.5	16.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	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: P248773

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2
2.5°	8577.8	8577.8	8573.6	8565.3	8548.4	8548.4	8544.3	8531.7	8523.4	8519.1	8519.1
5°	8535.8	8519.1	8502.4	8456.3	8456.3	8447.8	8422.8	8405.9	8397.6	8376.6	8368.3
7.5°	8498.2	8447.8	8418.5	8389.2	8351.5	8334.6	8305.3	8292.7	8263.4	8242.5	8229.9
10°	8405.9	8372.4	8334.6	8288.5	8259.2	8225.7	8192.1	8167.1	8129.3	8108.2	8091.5
12.5°	8343.1	8292.7	8259.2	8208.8	8158.6	8129.3	8083.2	8053.9	8016.1	7974.1	7948.9
15°	8284.4	8229.9	8183.8	8129.3	8074.7	8041.3	7986.7	7953.3	7898.7	7856.8	7827.4
17.5°	8196.4	8150.1	8099.9	8032.8	7982.6	7940.7	7881.8	7840.0	7789.7	7735.1	7705.8
20°	8104.1	8049.5	7999.3	7932.2	7881.8	7831.6	7772.9	7726.8	7668.0	7617.8	7584.3
22.5°	7982.6	7919.6	7877.7	7810.5	7751.9	7697.5	7643.0	7588.4	7533.9	7492.0	7454.2
25°	7806.4	7739.3	7693.2	7638.7	7584.3	7542.4	7475.2	7441.8	7387.2	7349.4	7311.6
27.5°	7554.8	7504.6	7462.6	7408.1	7362.0	7328.6	7278.2	7244.7	7198.4	7165.0	7135.6
30°	7186.0	7144.1	7106.3	7051.8	7018.3	6988.9	6942.7	6913.4	6879.9	6842.1	6833.8
32.5°	6691.3	6657.6	6620.0	6582.2	6557.0	6540.3	6502.5	6485.7	6452.3	6431.2	6410.3
35°	5944.9	5915.6	5894.7	5878.0	5869.5	5873.7	5865.4	5882.1	5890.4	5886.2	5890.4
37.5°	4968.2	4951.3	4959.7	4972.3	5014.3	5068.8	5119.0	5194.4	5244.8	5295.2	5341.3
40°	3878.1	3890.7	3924.2	3999.6	4108.6	4230.3	4343.5	4486.0	4628.6	4729.2	4821.3
42.5°	2926.4	2964.2	3047.9	3156.9	3320.5	3500.7	3676.9	3886.4	4058.4	4226.0	4343.5
45°	2201.1	2251.3	2360.4	2511.4	2691.5	2901.2	3123.5	3358.1	3563.7	3735.5	3865.5
47.5°	1714.8	1760.9	1869.9	2029.2	2251.3	2469.4	2700.0	2943.1	3156.9	3324.7	3437.9
50°	1354.1	1412.8	1509.3	1677.0	1899.3	2129.8	2368.8	2607.7	2809.0	2951.6	3052.2
52.5°	1064.9	1119.4	1211.6	1387.8	1614.2	1844.7	2066.8	2301.7	2477.7	2616.1	2683.2
55°	825.9	876.3	972.6	1119.4	1333.2	1559.7	1781.8	1983.1	2146.6	2247.2	2310.1
57.5°	628.8	666.6	733.8	880.4	1073.4	1282.9	1471.6	1672.9	1798.7	1869.9	1911.7
60°	478.0	507.3	578.6	691.8	867.8	1048.2	1207.4	1358.4	1459.1	1517.7	1559.7
62.5°	360.5	394.1	444.4	540.8	674.9	821.8	955.8	1069.1	1152.9	1190.7	1220.0
65°	247.3	272.5	310.3	385.7	498.9	603.6	708.6	792.4	847.0	888.9	905.6
67.5°	184.5	201.2	222.3	280.9	360.5	444.4	515.6	574.3	633.1	649.9	679.2
70°	138.4	151.0	171.9	213.8	259.9	318.6	377.4	410.9	452.8	482.2	490.6
72.5°	88.0	92.2	113.2	138.4	176.0	213.8	251.6	280.9	306.1	322.9	331.2
75°	50.4	75.4	75.4	100.6	125.8	142.5	167.7	188.6	201.2	213.8	213.8
77.5°	33.5	46.1	50.4	62.8	75.4	96.5	117.3	129.9	142.5	146.7	146.7
80°	29.3	33.5	33.5	46.1	54.5	71.3	83.9	88.0	96.5	100.6	109.1
82.5°	12.6	16.7	20.9	33.5	37.8	37.8	50.4	54.5	62.8	67.1	67.1
85°	4.1	8.5	8.5	12.6	20.9	25.2	29.3	33.5	37.8	37.8	41.9
87.5°	4.1	4.1	0.0	4.1	8.5	8.5	16.7	16.7	16.7	25.2	25.2
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: P248773

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2	8586.2
2.5°	8510.8	8515.0	8498.2	8494.1	8485.6	8489.8	8498.2
5°	8355.7	8359.8	8343.1	8326.3	8326.3	8322.0	8326.3
7.5°	8208.8	8213.1	8187.9	8179.5	8162.7	8167.1	8167.1
10°	8062.1	8062.1	8024.5	8020.2	8007.6	8003.5	8003.5
12.5°	7919.6	7907.0	7877.7	7860.9	7869.4	7844.2	7844.2
15°	7793.8	7772.9	7735.1	7722.5	7701.6	7693.2	7693.2
17.5°	7663.9	7647.1	7613.6	7588.4	7563.3	7559.1	7563.3
20°	7538.1	7521.3	7479.4	7462.6	7441.8	7441.8	7433.3
22.5°	7412.3	7395.5	7357.9	7345.3	7316.0	7316.0	7320.1
25°	7282.3	7269.7	7227.8	7219.5	7215.4	7198.4	7206.9
27.5°	7106.3	7097.8	7064.4	7051.8	7035.0	7030.9	7039.2
30°	6783.4	6770.8	6745.8	6733.2	6703.9	6708.0	6716.3
32.5°	6381.0	6364.3	6330.6	6318.0	6293.0	6284.5	6288.7
35°	5878.0	5865.4	5836.0	5836.0	5810.8	5802.4	5810.8
37.5°	5366.5	5378.9	5366.5	5378.9	5366.5	5362.2	5366.5
40°	4884.3	4930.4	4938.7	4984.9	4968.2	4993.2	4989.1
42.5°	4423.1	4498.5	4528.0	4565.6	4557.3	4574.1	4586.6
45°	3957.6	4020.6	4050.0	4075.2	4079.3	4087.8	4091.9
47.5°	3517.4	3567.8	3572.0	3601.3	3597.2	3597.2	3609.7
50°	3106.7	3140.2	3148.5	3169.5	3152.8	3144.3	3148.5
52.5°	2725.2	2758.7	2750.2	2758.7	2737.8	2729.3	2733.5
55°	2335.2	2351.9	2351.9	2351.9	2326.9	2326.9	2326.9
57.5°	1936.9	1941.2	1932.7	1936.9	1932.7	1907.6	1903.4
60°	1572.3	1572.3	1567.9	1572.3	1559.7	1547.1	1547.1
62.5°	1228.3	1236.8	1253.5	1236.8	1228.3	1236.8	1224.2
65°	918.2	935.0	930.7	939.1	935.0	935.0	926.5
67.5°	691.8	696.0	700.1	704.4	704.4	704.4	704.4
70°	507.3	519.9	515.6	515.6	515.6	515.6	540.8
72.5°	339.6	356.4	352.2	360.5	360.5	368.9	360.5
75°	230.5	247.3	239.0	251.6	247.3	239.0	259.9
77.5°	155.1	163.6	167.7	171.9	167.7	163.6	167.7
80°	109.1	117.3	113.2	117.3	117.3	117.3	121.7
82.5°	67.1	79.7	75.4	79.7	75.4	79.7	79.7
85°	46.1	50.4	41.9	50.4	46.1	46.1	54.5
87.5°	29.3	25.2	25.2	29.3	25.2	29.3	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)