

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: P248791

Luminaire Tested: **LD8B150D010 ER8B150840 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248791
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 ER8B150840 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14942.0 lumens
Efficiency: N/A
Efficacy: 94.3 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

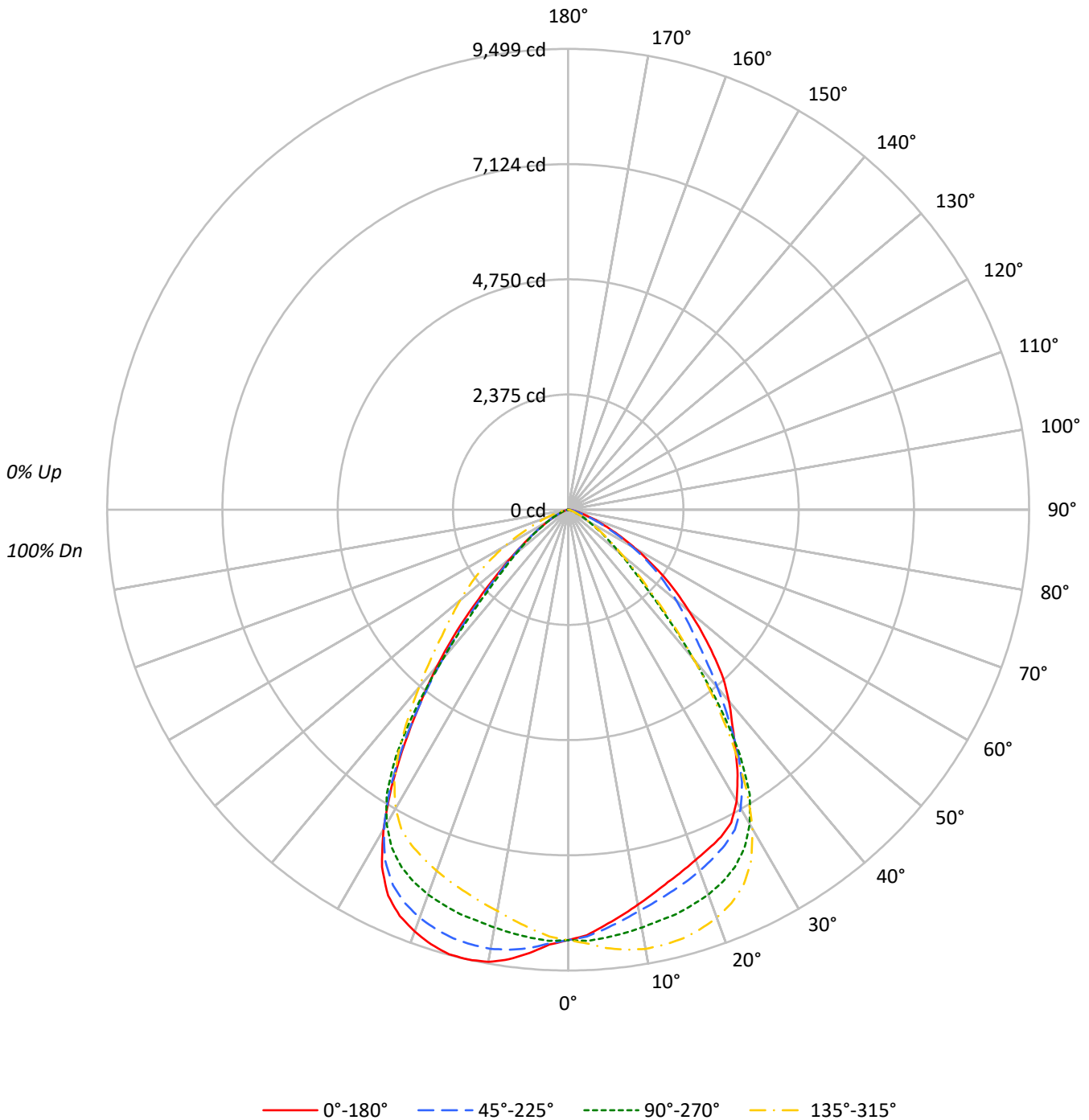
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	273537	273537	273537	273537
5°	266270	274179	283967	274179
10°	258903	273820	296334	273820
15°	253733	275444	302822	275444
20°	252005	277020	303601	277020
25°	253330	276466	298721	276466
30°	247064	266345	271131	266345
35°	225989	232344	220444	232344
40°	207481	161624	168777	161624
45°	184353	98600	114086	98600
50°	156046	65862	73144	65862
55°	129243	44945	47504	44945
60°	98571	29917	30183	29917
65°	69842	18643	17066	18643
70°	50372	12487	11333	12487
75°	31990	6207	5159	6207
80°	22322	4617	3836	4617
85°	19919	0	1521	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.3	5.7
10°-20°	2445.0	16.4
20°-30°	3702.2	24.8
30°-40°	3710.5	24.8
40°-50°	2330.0	15.6
50°-60°	1241.7	8.3
60°-70°	510.6	3.4
70°-80°	134.9	0.9
80°-90°	22.8	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°	6991.5	46.8
0°-40°	10702.0	71.6
0°-60°	14273.7	95.5
0°-90°	14942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14942.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8871	8871	8871	8871	8871	
5°	8602	8858	9174	8858	8602	811
15°	7948	8628	9486	8628	7948	2248
25°	7446	8126	8780	8126	7446	3415
35°	6003	6172	5856	6172	6003	3761
45°	4227	2261	2616	2261	4227	3251
55°	2404	836	884	836	2404	2143
65°	957	256	234	256	957	993
75°	268	52	43	52	268	304
85°	56	0	4	0	56	62
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°	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6
2.5°	8779.7	8770.9	8766.7	8775.4	8779.7	8797.0	8792.7	8801.2	8801.2	8805.7	8814.3
5°	8602.1	8597.6	8602.1	8602.1	8619.4	8636.7	8632.4	8645.4	8654.0	8675.7	8684.3
7.5°	8437.5	8437.5	8433.1	8450.4	8459.1	8485.1	8480.7	8502.4	8515.5	8537.0	8567.3
10°	8268.5	8268.5	8272.8	8285.8	8290.3	8329.2	8329.2	8359.5	8376.8	8398.5	8437.5
12.5°	8104.0	8104.0	8130.0	8121.3	8138.6	8168.9	8181.9	8212.2	8238.2	8281.5	8320.6
15°	7948.0	7948.0	7956.7	7978.3	7991.3	8030.3	8051.9	8086.7	8117.0	8160.3	8216.7
17.5°	7813.7	7809.5	7813.7	7839.8	7865.8	7900.4	7917.7	7961.0	7991.3	8047.6	8099.7
20°	7679.5	7688.2	7688.2	7709.8	7727.1	7770.4	7787.7	7835.5	7870.1	7922.0	7982.7
22.5°	7562.5	7558.3	7558.3	7588.6	7601.6	7640.4	7657.7	7701.1	7740.1	7783.4	7839.8
25°	7445.6	7436.8	7454.3	7458.6	7467.2	7510.5	7523.5	7553.8	7592.8	7631.9	7688.2
27.5°	7272.3	7263.7	7268.0	7285.3	7298.3	7332.9	7341.6	7372.0	7402.3	7436.8	7484.6
30°	6938.7	6930.2	6925.9	6956.2	6969.2	6995.1	7008.1	7060.1	7068.7	7107.7	7142.3
32.5°	6496.9	6492.7	6501.4	6527.3	6540.3	6575.0	6592.3	6622.6	6644.2	6666.0	6700.5
35°	6003.3	5994.5	6003.3	6029.3	6029.3	6059.6	6072.6	6085.5	6081.2	6085.5	6076.9
37.5°	5544.2	5539.8	5544.2	5557.0	5544.2	5557.0	5544.2	5518.2	5470.6	5418.5	5366.5
40°	5154.3	5158.6	5132.7	5150.0	5102.2	5093.7	5046.1	4981.0	4885.8	4781.9	4634.6
42.5°	4738.6	4725.5	4708.2	4716.8	4677.9	4647.5	4569.5	4487.4	4365.9	4192.8	4015.1
45°	4227.4	4223.1	4214.4	4210.1	4184.1	4153.8	4088.7	3993.5	3859.3	3681.7	3469.4
47.5°	3729.3	3716.3	3716.3	3720.6	3690.3	3686.0	3633.9	3551.7	3434.8	3261.5	3040.6
50°	3252.8	3248.5	3257.2	3274.5	3252.8	3244.2	3209.6	3153.3	3049.3	2902.1	2694.0
52.5°	2824.0	2819.7	2828.4	2850.0	2841.3	2850.0	2815.4	2772.1	2702.8	2559.8	2377.9
55°	2404.0	2404.0	2404.0	2429.8	2429.8	2429.8	2412.5	2386.7	2321.6	2217.6	2048.8
57.5°	1966.4	1970.7	1996.8	2001.0	1996.8	2005.5	2001.0	1975.0	1931.9	1858.2	1728.3
60°	1598.3	1598.3	1611.3	1624.3	1619.9	1624.3	1624.3	1611.3	1568.0	1507.4	1403.4
62.5°	1264.7	1277.7	1269.0	1277.7	1295.0	1277.7	1269.0	1260.5	1230.1	1191.1	1104.5
65°	957.2	965.9	965.9	970.2	961.5	965.9	948.6	935.6	918.3	875.0	818.7
67.5°	727.7	727.7	727.7	727.7	723.3	719.0	714.7	701.7	671.4	654.1	593.3
70°	558.7	532.7	532.7	532.7	532.7	537.2	524.1	506.9	498.1	467.8	424.5
72.5°	372.4	381.2	372.4	372.4	363.9	368.2	350.9	342.1	333.6	316.3	290.2
75°	268.5	246.9	255.5	259.9	246.9	255.5	238.2	220.9	220.9	207.9	194.9
77.5°	173.3	169.0	173.3	177.6	173.3	169.0	160.3	151.5	151.5	147.3	134.2
80°	125.7	121.2	121.2	121.2	117.0	121.2	112.7	112.7	103.9	99.7	90.9
82.5°	82.4	82.4	77.9	82.4	77.9	82.4	69.4	69.4	69.4	64.9	56.3
85°	56.3	47.6	47.6	52.1	43.3	52.1	47.6	43.3	39.0	39.0	34.6
87.5°	26.0	30.3	26.0	30.3	26.0	26.0	30.3	26.0	26.0	17.3	17.3
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°	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6
2.5°	8827.3	8831.5	8831.5	8849.0	8857.6	8861.9	8861.9	8896.6	8883.6	8892.3	8900.9
5°	8701.8	8727.6	8736.3	8736.3	8783.9	8801.2	8818.5	8857.6	8861.9	8887.9	8918.2
7.5°	8580.3	8610.7	8628.1	8667.0	8697.3	8727.6	8779.7	8805.7	8831.5	8866.3	8905.2
10°	8463.4	8498.2	8532.7	8563.1	8610.7	8649.7	8684.3	8744.9	8775.4	8823.0	8874.9
12.5°	8350.9	8398.5	8428.8	8480.7	8532.7	8567.3	8619.4	8675.7	8723.3	8770.9	8831.5
15°	8251.2	8307.6	8342.2	8398.5	8454.8	8502.4	8558.8	8628.1	8662.7	8719.1	8775.4
17.5°	8142.8	8203.6	8247.0	8298.8	8368.2	8420.1	8467.9	8537.0	8580.3	8641.0	8706.0
20°	8030.3	8091.0	8142.8	8194.9	8264.3	8316.1	8372.5	8441.8	8489.4	8550.0	8602.1
22.5°	7896.1	7952.4	8008.6	8069.2	8138.6	8181.9	8247.0	8307.6	8359.5	8415.8	8467.9
25°	7722.8	7792.2	7835.5	7891.6	7948.0	7995.6	8064.9	8125.6	8168.9	8220.9	8268.5
27.5°	7519.2	7571.3	7605.9	7653.5	7709.8	7753.1	7805.0	7865.8	7909.1	7956.7	7991.3
30°	7172.6	7220.4	7250.7	7285.3	7341.6	7380.7	7424.0	7480.2	7510.5	7545.2	7575.6
32.5°	6717.8	6756.9	6774.2	6800.2	6839.2	6878.1	6912.9	6960.5	6973.5	6995.1	6995.1
35°	6059.6	6068.2	6063.9	6072.6	6089.9	6111.5	6141.8	6172.1	6189.4	6189.4	6176.6
37.5°	5288.6	5236.7	5180.3	5137.0	5124.0	5115.3	5132.7	5145.6	5163.0	5171.6	5150.0
40°	4487.4	4370.4	4244.7	4132.0	4054.1	4019.5	4006.5	4015.1	4015.1	4045.4	4045.4
42.5°	3798.7	3616.6	3430.5	3261.5	3148.8	3062.3	3023.3	3023.3	3027.6	3049.3	3062.3
45°	3226.9	2997.3	2780.7	2594.5	2438.5	2325.9	2274.0	2261.0	2256.7	2265.2	2295.6
47.5°	2789.4	2551.2	2325.9	2096.4	1931.9	1819.2	1771.6	1754.1	1736.8	1754.1	1758.6
50°	2447.3	2200.4	1962.2	1732.5	1559.3	1459.6	1399.0	1372.9	1368.7	1368.7	1377.4
52.5°	2135.3	1905.8	1667.6	1433.7	1251.7	1156.5	1100.2	1087.2	1069.9	1087.2	1087.2
55°	1840.8	1611.3	1377.4	1156.5	1004.8	905.3	853.3	836.0	827.2	840.2	840.2
57.5°	1520.4	1325.3	1108.9	909.6	758.1	688.7	649.7	628.1	623.6	632.4	623.6
60°	1247.4	1082.9	896.6	714.7	597.8	524.1	493.8	485.1	476.4	485.1	485.1
62.5°	987.5	849.0	697.3	558.7	459.1	407.2	372.4	372.4	368.2	368.2	372.4
65°	732.0	623.6	515.4	398.5	320.6	281.5	255.5	255.5	251.2	255.5	251.2
67.5°	532.7	459.1	372.4	290.2	229.6	207.9	190.6	177.6	186.3	177.6	173.3
70°	389.9	329.1	268.5	220.9	177.6	156.0	143.0	138.5	130.0	130.0	130.0
72.5°	259.9	220.9	181.8	143.0	117.0	95.2	90.9	82.4	73.6	77.9	86.6
75°	173.3	147.3	130.0	103.9	77.9	77.9	52.1	52.1	43.3	52.1	39.0
77.5°	121.2	99.7	77.9	64.9	52.1	47.6	34.6	34.6	30.3	30.3	30.3
80°	86.6	73.6	56.3	47.6	34.6	34.6	30.3	26.0	21.6	21.6	26.0
82.5°	52.1	39.0	39.0	34.6	21.6	17.3	13.0	17.3	8.7	8.7	8.7
85°	30.3	26.0	21.6	13.0	8.7	8.7	4.3	0.0	4.3	4.3	0.0
87.5°	17.3	8.7	8.7	4.3	0.0	4.3	4.3	0.0	0.0	0.0	8.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6
2.5°	8922.7	8918.2	8926.9	8926.9	8953.0	8948.5	8961.5	8961.5	8953.0	8957.2	8974.5
5°	8953.0	8966.0	8991.8	9013.6	9052.4	9069.9	9091.5	9113.2	9117.5	9130.5	9143.5
7.5°	8953.0	8996.3	9026.6	9065.5	9117.5	9147.8	9195.4	9234.5	9251.8	9273.3	9299.4
10°	8935.5	8978.8	9035.1	9078.5	9143.5	9191.1	9238.7	9299.4	9325.4	9360.0	9394.7
12.5°	8900.9	8948.5	9009.1	9065.5	9139.1	9182.4	9243.0	9299.4	9338.4	9386.0	9425.0
15°	8849.0	8905.2	8961.5	9017.9	9095.8	9147.8	9204.2	9269.1	9308.1	9360.0	9394.7
17.5°	8766.7	8827.3	8879.3	8931.2	9004.8	9065.5	9117.5	9178.1	9217.2	9260.5	9308.1
20°	8667.0	8723.3	8779.7	8823.0	8896.6	8948.5	9004.8	9061.2	9091.5	9100.2	9173.8
22.5°	8541.5	8580.3	8623.7	8693.0	8736.3	8783.9	8836.0	8887.9	8918.2	8966.0	8991.8
25°	8333.4	8372.5	8420.1	8450.4	8502.4	8541.5	8593.4	8649.7	8667.0	8701.8	8727.6
27.5°	8043.4	8064.9	8086.7	8112.5	8142.8	8164.6	8194.9	8220.9	8238.2	8255.5	8272.8
30°	7584.1	7584.1	7584.1	7566.8	7579.8	7592.8	7597.1	7592.8	7592.8	7588.6	7588.6
32.5°	6977.8	6943.2	6904.1	6869.6	6856.5	6839.2	6830.5	6817.5	6795.9	6782.9	6787.2
35°	6159.1	6081.2	6033.6	5990.3	5955.7	5929.7	5916.6	5903.6	5899.3	5882.1	5864.6
37.5°	5137.0	5080.7	5046.1	5020.1	4989.8	4963.7	4968.0	4972.5	4985.3	4976.7	4981.0
40°	4054.1	4041.1	4054.1	4023.8	4015.1	4023.8	4045.4	4075.9	4093.2	4110.5	4140.8
42.5°	3083.9	3105.5	3136.0	3136.0	3148.8	3166.3	3192.1	3239.9	3265.8	3296.1	3330.8
45°	2321.6	2347.6	2386.7	2399.5	2408.2	2429.8	2460.3	2499.2	2516.4	2542.5	2572.8
47.5°	1788.9	1806.2	1827.7	1849.5	1871.1	1879.8	1910.1	1910.1	1931.9	1949.2	1957.7
50°	1394.7	1412.0	1429.3	1442.3	1451.0	1464.1	1472.6	1485.6	1489.9	1498.6	1502.9
52.5°	1091.4	1113.2	1113.2	1121.7	1134.8	1147.8	1143.5	1147.8	1152.1	1152.1	1165.1
55°	853.3	853.3	866.3	866.3	875.0	870.6	875.0	875.0	875.0	875.0	879.3
57.5°	636.6	641.1	654.1	645.4	641.1	649.7	641.1	649.7	645.4	654.1	641.1
60°	489.4	489.4	493.8	493.8	498.1	498.1	498.1	493.8	493.8	489.4	489.4
62.5°	368.2	372.4	376.9	372.4	372.4	372.4	368.2	368.2	363.9	359.4	359.4
65°	246.9	242.6	251.2	242.6	246.9	246.9	242.6	246.9	233.9	238.2	233.9
67.5°	177.6	173.3	169.0	173.3	169.0	164.6	164.6	169.0	173.3	160.3	160.3
70°	117.0	121.2	117.0	121.2	125.7	125.7	121.2	117.0	121.2	112.7	117.0
72.5°	73.6	73.6	73.6	73.6	73.6	77.9	77.9	77.9	69.4	69.4	64.9
75°	34.6	47.6	39.0	34.6	47.6	47.6	43.3	43.3	39.0	39.0	39.0
77.5°	34.6	26.0	26.0	26.0	26.0	26.0	26.0	26.0	21.6	26.0	21.6
80°	17.3	17.3	17.3	13.0	17.3	17.3	21.6	17.3	17.3	13.0	21.6
82.5°	8.7	8.7	8.7	0.0	4.3	8.7	8.7	4.3	8.7	8.7	4.3
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: P248791

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6
2.5°	8970.3	8966.0	8970.3	8974.5	8970.3	8966.0	8970.3	8974.5	8957.2	8953.0	8961.5
5°	9160.8	9160.8	9169.4	9173.8	9169.4	9160.8	9160.8	9143.5	9130.5	9117.5	9113.2
7.5°	9325.4	9334.1	9342.7	9347.0	9342.7	9334.1	9325.4	9299.4	9273.3	9251.8	9234.5
10°	9425.0	9438.1	9455.4	9463.9	9455.4	9438.1	9425.0	9394.7	9360.0	9325.4	9299.4
12.5°	9468.4	9481.4	9503.0	9498.7	9503.0	9481.4	9468.4	9425.0	9386.0	9338.4	9299.4
15°	9438.1	9455.4	9476.9	9485.7	9476.9	9455.4	9438.1	9394.7	9360.0	9308.1	9269.1
17.5°	9342.7	9368.7	9381.7	9394.7	9381.7	9368.7	9342.7	9308.1	9260.5	9217.2	9178.1
20°	9212.7	9230.2	9247.5	9251.8	9247.5	9230.2	9212.7	9173.8	9100.2	9091.5	9061.2
22.5°	9026.6	9039.6	9078.5	9065.5	9078.5	9039.6	9026.6	8991.8	8966.0	8918.2	8887.9
25°	8757.9	8770.9	8775.4	8779.7	8775.4	8770.9	8757.9	8727.6	8701.8	8667.0	8649.7
27.5°	8294.6	8294.6	8303.1	8307.6	8303.1	8294.6	8294.6	8272.8	8255.5	8238.2	8220.9
30°	7592.8	7592.8	7592.8	7614.6	7592.8	7592.8	7592.8	7588.6	7588.6	7592.8	7592.8
32.5°	6782.9	6774.2	6765.6	6774.2	6765.6	6774.2	6782.9	6787.2	6782.9	6795.9	6817.5
35°	5864.6	5860.3	5873.3	5856.0	5873.3	5860.3	5864.6	5864.6	5882.1	5899.3	5903.6
37.5°	4985.3	4976.7	4994.0	4976.7	4994.0	4976.7	4985.3	4981.0	4976.7	4985.3	4972.5
40°	4149.5	4158.1	4158.1	4192.8	4158.1	4158.1	4149.5	4140.8	4110.5	4093.2	4075.9
42.5°	3348.1	3374.2	3365.4	3391.5	3365.4	3374.2	3348.1	3330.8	3296.1	3265.8	3239.9
45°	2590.1	2607.6	2607.6	2616.1	2607.6	2607.6	2590.1	2572.8	2542.5	2516.4	2499.2
47.5°	1988.0	1988.0	1988.0	1992.5	1988.0	1988.0	1988.0	1957.7	1949.2	1931.9	1910.1
50°	1511.7	1515.9	1520.4	1524.7	1520.4	1515.9	1511.7	1502.9	1498.6	1489.9	1485.6
52.5°	1160.8	1165.1	1156.5	1165.1	1156.5	1165.1	1160.8	1165.1	1152.1	1152.1	1147.8
55°	879.3	875.0	879.3	883.6	879.3	875.0	879.3	879.3	875.0	875.0	875.0
57.5°	645.4	636.6	636.6	636.6	636.6	636.6	645.4	641.1	654.1	645.4	649.7
60°	480.8	485.1	485.1	489.4	485.1	485.1	480.8	489.4	489.4	493.8	493.8
62.5°	355.1	368.2	359.4	368.2	359.4	368.2	355.1	359.4	359.4	363.9	368.2
65°	229.6	229.6	229.6	233.9	229.6	229.6	229.6	233.9	238.2	233.9	246.9
67.5°	156.0	160.3	169.0	164.6	169.0	160.3	156.0	160.3	160.3	173.3	169.0
70°	125.7	112.7	112.7	125.7	112.7	112.7	125.7	117.0	112.7	121.2	117.0
72.5°	73.6	64.9	73.6	73.6	73.6	64.9	73.6	64.9	69.4	69.4	77.9
75°	39.0	34.6	30.3	43.3	30.3	34.6	39.0	39.0	39.0	39.0	43.3
77.5°	26.0	21.6	30.3	30.3	30.3	21.6	26.0	21.6	26.0	21.6	26.0
80°	13.0	17.3	13.0	21.6	13.0	17.3	13.0	21.6	13.0	17.3	17.3
82.5°	4.3	8.7	8.7	8.7	8.7	8.7	4.3	4.3	8.7	8.7	4.3
85°	0.0	8.7	4.3	4.3	4.3	8.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	0.0	4.3	0.0	0.0	4.3	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: P248791

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6
2.5°	8961.5	8948.5	8953.0	8926.9	8926.9	8918.2	8922.7	8900.9	8892.3	8883.6	8896.6
5°	9091.5	9069.9	9052.4	9013.6	8991.8	8966.0	8953.0	8918.2	8887.9	8861.9	8857.6
7.5°	9195.4	9147.8	9117.5	9065.5	9026.6	8996.3	8953.0	8905.2	8866.3	8831.5	8805.7
10°	9238.7	9191.1	9143.5	9078.5	9035.1	8978.8	8935.5	8874.9	8823.0	8775.4	8744.9
12.5°	9243.0	9182.4	9139.1	9065.5	9009.1	8948.5	8900.9	8831.5	8770.9	8723.3	8675.7
15°	9204.2	9147.8	9095.8	9017.9	8961.5	8905.2	8849.0	8775.4	8719.1	8662.7	8628.1
17.5°	9117.5	9065.5	9004.8	8931.2	8879.3	8827.3	8766.7	8706.0	8641.0	8580.3	8537.0
20°	9004.8	8948.5	8896.6	8823.0	8779.7	8723.3	8667.0	8602.1	8550.0	8489.4	8441.8
22.5°	8836.0	8783.9	8736.3	8693.0	8623.7	8580.3	8541.5	8467.9	8415.8	8359.5	8307.6
25°	8593.4	8541.5	8502.4	8450.4	8420.1	8372.5	8333.4	8268.5	8220.9	8168.9	8125.6
27.5°	8194.9	8164.6	8142.8	8112.5	8086.7	8064.9	8043.4	7991.3	7956.7	7909.1	7865.8
30°	7597.1	7592.8	7579.8	7566.8	7584.1	7584.1	7584.1	7575.6	7545.2	7510.5	7480.2
32.5°	6830.5	6839.2	6856.5	6869.6	6904.1	6943.2	6977.8	6995.1	6995.1	6973.5	6960.5
35°	5916.6	5929.7	5955.7	5990.3	6033.6	6081.2	6159.1	6176.6	6189.4	6189.4	6172.1
37.5°	4968.0	4963.7	4989.8	5020.1	5046.1	5080.7	5137.0	5150.0	5171.6	5163.0	5145.6
40°	4045.4	4023.8	4015.1	4023.8	4054.1	4041.1	4054.1	4045.4	4045.4	4015.1	4015.1
42.5°	3192.1	3166.3	3148.8	3136.0	3136.0	3105.5	3083.9	3062.3	3049.3	3027.6	3023.3
45°	2460.3	2429.8	2408.2	2399.5	2386.7	2347.6	2321.6	2295.6	2265.2	2256.7	2261.0
47.5°	1910.1	1879.8	1871.1	1849.5	1827.7	1806.2	1788.9	1758.6	1754.1	1736.8	1754.1
50°	1472.6	1464.1	1451.0	1442.3	1429.3	1412.0	1394.7	1377.4	1368.7	1368.7	1372.9
52.5°	1143.5	1147.8	1134.8	1121.7	1113.2	1113.2	1091.4	1087.2	1087.2	1069.9	1087.2
55°	875.0	870.6	875.0	866.3	866.3	853.3	853.3	840.2	840.2	827.2	836.0
57.5°	641.1	649.7	641.1	645.4	654.1	641.1	636.6	623.6	632.4	623.6	628.1
60°	498.1	498.1	498.1	493.8	493.8	489.4	489.4	485.1	485.1	476.4	485.1
62.5°	368.2	372.4	372.4	372.4	376.9	372.4	368.2	372.4	368.2	368.2	372.4
65°	242.6	246.9	246.9	242.6	251.2	242.6	246.9	251.2	255.5	251.2	255.5
67.5°	164.6	164.6	169.0	173.3	169.0	173.3	177.6	173.3	177.6	186.3	177.6
70°	121.2	125.7	125.7	121.2	117.0	121.2	117.0	130.0	130.0	130.0	138.5
72.5°	77.9	77.9	73.6	73.6	73.6	73.6	73.6	86.6	77.9	73.6	82.4
75°	43.3	47.6	47.6	34.6	39.0	47.6	34.6	39.0	52.1	43.3	52.1
77.5°	26.0	26.0	26.0	26.0	26.0	26.0	34.6	30.3	30.3	30.3	34.6
80°	21.6	17.3	17.3	13.0	17.3	17.3	17.3	26.0	21.6	21.6	26.0
82.5°	8.7	8.7	4.3	0.0	8.7	8.7	8.7	8.7	8.7	8.7	17.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	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: P248791

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6
2.5°	8861.9	8861.9	8857.6	8849.0	8831.5	8831.5	8827.3	8814.3	8805.7	8801.2	8801.2
5°	8818.5	8801.2	8783.9	8736.3	8736.3	8727.6	8701.8	8684.3	8675.7	8654.0	8645.4
7.5°	8779.7	8727.6	8697.3	8667.0	8628.1	8610.7	8580.3	8567.3	8537.0	8515.5	8502.4
10°	8684.3	8649.7	8610.7	8563.1	8532.7	8498.2	8463.4	8437.5	8398.5	8376.8	8359.5
12.5°	8619.4	8567.3	8532.7	8480.7	8428.8	8398.5	8350.9	8320.6	8281.5	8238.2	8212.2
15°	8558.8	8502.4	8454.8	8398.5	8342.2	8307.6	8251.2	8216.7	8160.3	8117.0	8086.7
17.5°	8467.9	8420.1	8368.2	8298.8	8247.0	8203.6	8142.8	8099.7	8047.6	7991.3	7961.0
20°	8372.5	8316.1	8264.3	8194.9	8142.8	8091.0	8030.3	7982.7	7922.0	7870.1	7835.5
22.5°	8247.0	8181.9	8138.6	8069.2	8008.6	7952.4	7896.1	7839.8	7783.4	7740.1	7701.1
25°	8064.9	7995.6	7948.0	7891.6	7835.5	7792.2	7722.8	7688.2	7631.9	7592.8	7553.8
27.5°	7805.0	7753.1	7709.8	7653.5	7605.9	7571.3	7519.2	7484.6	7436.8	7402.3	7372.0
30°	7424.0	7380.7	7341.6	7285.3	7250.7	7220.4	7172.6	7142.3	7107.7	7068.7	7060.1
32.5°	6912.9	6878.1	6839.2	6800.2	6774.2	6756.9	6717.8	6700.5	6666.0	6644.2	6622.6
35°	6141.8	6111.5	6089.9	6072.6	6063.9	6068.2	6059.6	6076.9	6085.5	6081.2	6085.5
37.5°	5132.7	5115.3	5124.0	5137.0	5180.3	5236.7	5288.6	5366.5	5418.5	5470.6	5518.2
40°	4006.5	4019.5	4054.1	4132.0	4244.7	4370.4	4487.4	4634.6	4781.9	4885.8	4981.0
42.5°	3023.3	3062.3	3148.8	3261.5	3430.5	3616.6	3798.7	4015.1	4192.8	4365.9	4487.4
45°	2274.0	2325.9	2438.5	2594.5	2780.7	2997.3	3226.9	3469.4	3681.7	3859.3	3993.5
47.5°	1771.6	1819.2	1931.9	2096.4	2325.9	2551.2	2789.4	3040.6	3261.5	3434.8	3551.7
50°	1399.0	1459.6	1559.3	1732.5	1962.2	2200.4	2447.3	2694.0	2902.1	3049.3	3153.3
52.5°	1100.2	1156.5	1251.7	1433.7	1667.6	1905.8	2135.3	2377.9	2559.8	2702.8	2772.1
55°	853.3	905.3	1004.8	1156.5	1377.4	1611.3	1840.8	2048.8	2217.6	2321.6	2386.7
57.5°	649.7	688.7	758.1	909.6	1108.9	1325.3	1520.4	1728.3	1858.2	1931.9	1975.0
60°	493.8	524.1	597.8	714.7	896.6	1082.9	1247.4	1403.4	1507.4	1568.0	1611.3
62.5°	372.4	407.2	459.1	558.7	697.3	849.0	987.5	1104.5	1191.1	1230.1	1260.5
65°	255.5	281.5	320.6	398.5	515.4	623.6	732.0	818.7	875.0	918.3	935.6
67.5°	190.6	207.9	229.6	290.2	372.4	459.1	532.7	593.3	654.1	671.4	701.7
70°	143.0	156.0	177.6	220.9	268.5	329.1	389.9	424.5	467.8	498.1	506.9
72.5°	90.9	95.2	117.0	143.0	181.8	220.9	259.9	290.2	316.3	333.6	342.1
75°	52.1	77.9	77.9	103.9	130.0	147.3	173.3	194.9	207.9	220.9	220.9
77.5°	34.6	47.6	52.1	64.9	77.9	99.7	121.2	134.2	147.3	151.5	151.5
80°	30.3	34.6	34.6	47.6	56.3	73.6	86.6	90.9	99.7	103.9	112.7
82.5°	13.0	17.3	21.6	34.6	39.0	39.0	52.1	56.3	64.9	69.4	69.4
85°	4.3	8.7	8.7	13.0	21.6	26.0	30.3	34.6	39.0	39.0	43.3
87.5°	4.3	4.3	0.0	4.3	8.7	8.7	17.3	17.3	17.3	26.0	26.0
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: P248791

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6	8870.6
2.5°	8792.7	8797.0	8779.7	8775.4	8766.7	8770.9	8779.7
5°	8632.4	8636.7	8619.4	8602.1	8602.1	8597.6	8602.1
7.5°	8480.7	8485.1	8459.1	8450.4	8433.1	8437.5	8437.5
10°	8329.2	8329.2	8290.3	8285.8	8272.8	8268.5	8268.5
12.5°	8181.9	8168.9	8138.6	8121.3	8130.0	8104.0	8104.0
15°	8051.9	8030.3	7991.3	7978.3	7956.7	7948.0	7948.0
17.5°	7917.7	7900.4	7865.8	7839.8	7813.7	7809.5	7813.7
20°	7787.7	7770.4	7727.1	7709.8	7688.2	7688.2	7679.5
22.5°	7657.7	7640.4	7601.6	7588.6	7558.3	7558.3	7562.5
25°	7523.5	7510.5	7467.2	7458.6	7454.3	7436.8	7445.6
27.5°	7341.6	7332.9	7298.3	7285.3	7268.0	7263.7	7272.3
30°	7008.1	6995.1	6969.2	6956.2	6925.9	6930.2	6938.7
32.5°	6592.3	6575.0	6540.3	6527.3	6501.4	6492.7	6496.9
35°	6072.6	6059.6	6029.3	6029.3	6003.3	5994.5	6003.3
37.5°	5544.2	5557.0	5544.2	5557.0	5544.2	5539.8	5544.2
40°	5046.1	5093.7	5102.2	5150.0	5132.7	5158.6	5154.3
42.5°	4569.5	4647.5	4677.9	4716.8	4708.2	4725.5	4738.6
45°	4088.7	4153.8	4184.1	4210.1	4214.4	4223.1	4227.4
47.5°	3633.9	3686.0	3690.3	3720.6	3716.3	3716.3	3729.3
50°	3209.6	3244.2	3252.8	3274.5	3257.2	3248.5	3252.8
52.5°	2815.4	2850.0	2841.3	2850.0	2828.4	2819.7	2824.0
55°	2412.5	2429.8	2429.8	2429.8	2404.0	2404.0	2404.0
57.5°	2001.0	2005.5	1996.8	2001.0	1996.8	1970.7	1966.4
60°	1624.3	1624.3	1619.9	1624.3	1611.3	1598.3	1598.3
62.5°	1269.0	1277.7	1295.0	1277.7	1269.0	1277.7	1264.7
65°	948.6	965.9	961.5	970.2	965.9	965.9	957.2
67.5°	714.7	719.0	723.3	727.7	727.7	727.7	727.7
70°	524.1	537.2	532.7	532.7	532.7	532.7	558.7
72.5°	350.9	368.2	363.9	372.4	372.4	381.2	372.4
75°	238.2	255.5	246.9	259.9	255.5	246.9	268.5
77.5°	160.3	169.0	173.3	177.6	173.3	169.0	173.3
80°	112.7	121.2	117.0	121.2	121.2	121.2	125.7
82.5°	69.4	82.4	77.9	82.4	77.9	82.4	82.4
85°	47.6	52.1	43.3	52.1	47.6	47.6	56.3
87.5°	30.3	26.0	26.0	30.3	26.0	30.3	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)