

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: P248910

Luminaire Tested: **LD8B200D010 ER8B200850 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248910
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: LD8B200D010 ER8B200850 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16739.0 lumens
Efficiency: N/A
Efficacy: 75.0 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

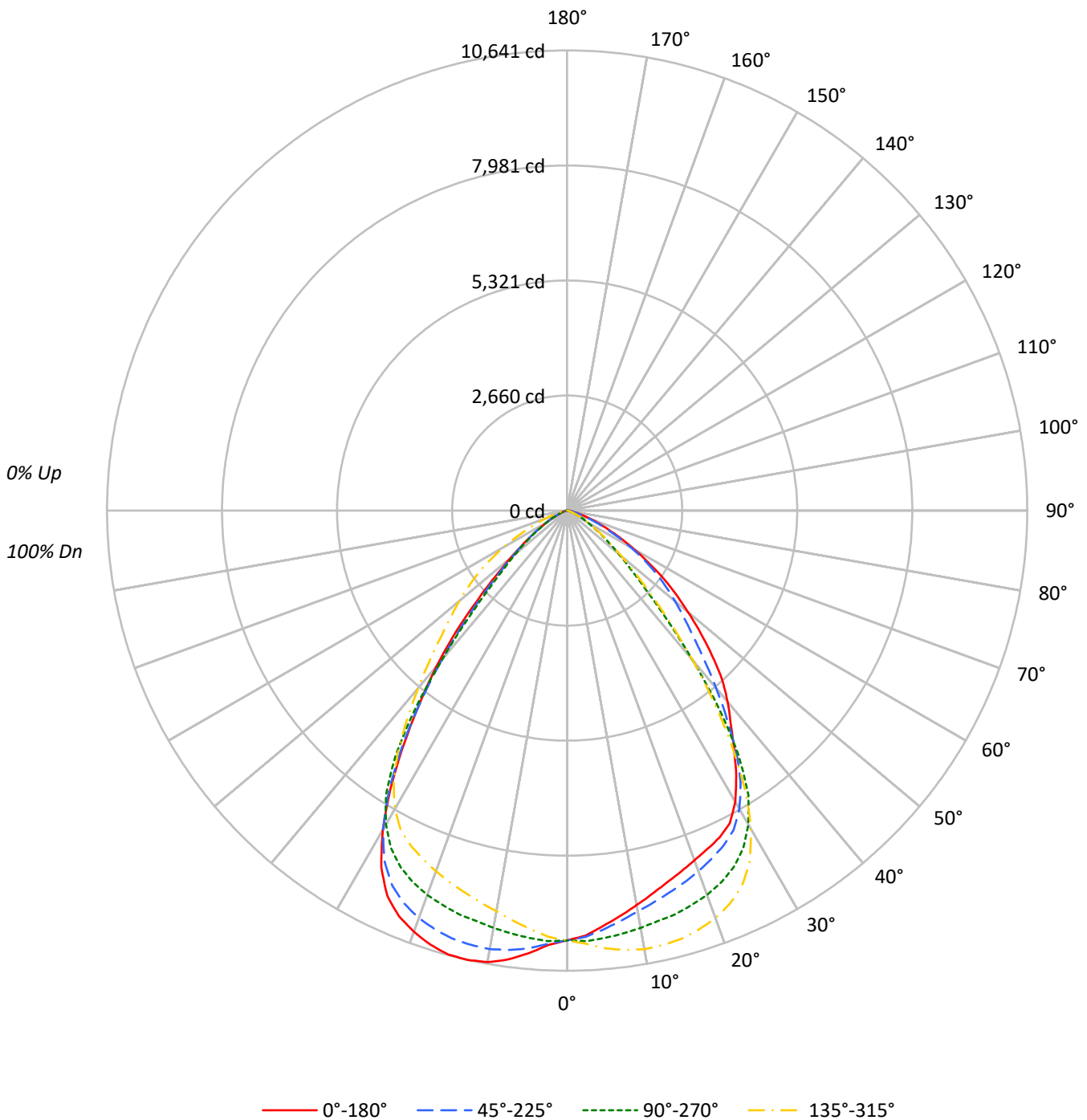
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	306433	306433	306433	306433
5°	298292	307151	318118	307151
10°	290040	306751	331973	306751
15°	284246	308572	339241	308572
20°	282313	310338	340111	310338
25°	283795	309715	334648	309715
30°	276778	298377	303739	298377
35°	253168	260287	246957	260287
40°	232434	181062	189077	181062
45°	206524	110458	127805	110458
50°	174808	73787	81938	73787
55°	144785	50348	53213	50348
60°	110425	33513	33809	33513
65°	78240	20883	19117	20883
70°	56431	13993	12694	13993
75°	35838	6946	5778	6946
80°	25003	5185	4297	5185
85°	22325	0	1698	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	945.9	5.7
10°-20°	2739.0	16.4
20°-30°	4147.5	24.8
30°-40°	4156.8	24.8
40°-50°	2610.2	15.6
50°-60°	1391.0	8.3
60°-70°	572.0	3.4
70°-80°	151.1	0.9
80°-90°	25.6	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°	7832.3	46.8
0°-40°	11989.1	71.6
0°-60°	15990.3	95.5
0°-90°	16739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16739.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9937	9937	9937	9937	9937	
5°	9637	9923	10277	9923	9637	909
15°	8904	9666	10626	9666	8904	2518
25°	8341	9103	9836	9103	8341	3826
35°	6725	6914	6560	6914	6725	4213
45°	4736	2533	2931	2533	4736	3642
55°	2693	936	990	936	2693	2401
65°	1072	286	262	286	1072	1112
75°	301	58	48	58	301	341
85°	63	0	5	0	63	69
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°	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4
2.5°	9835.6	9825.8	9821.0	9830.8	9835.6	9854.9	9850.1	9859.7	9859.7	9864.7	9874.3
5°	9636.6	9631.6	9636.6	9636.6	9656.0	9675.4	9670.6	9685.2	9694.8	9719.1	9728.7
7.5°	9452.3	9452.3	9447.3	9466.7	9476.5	9505.6	9500.6	9525.0	9539.6	9563.7	9597.7
10°	9262.9	9262.9	9267.7	9282.3	9287.3	9330.9	9330.9	9364.8	9384.2	9408.5	9452.3
12.5°	9078.6	9078.6	9107.8	9098.0	9117.4	9151.3	9165.9	9199.8	9229.0	9277.5	9321.3
15°	8903.8	8903.8	8913.6	8937.8	8952.4	8996.1	9020.3	9059.2	9093.2	9141.7	9204.8
17.5°	8753.5	8748.7	8753.5	8782.6	8811.8	8850.5	8869.9	8918.4	8952.4	9015.5	9073.8
20°	8603.1	8612.9	8612.9	8637.0	8656.4	8704.9	8724.3	8777.8	8816.6	8874.7	8942.8
22.5°	8472.0	8467.3	8467.3	8501.2	8515.8	8559.3	8578.7	8627.2	8671.0	8719.5	8782.6
25°	8341.0	8331.2	8350.8	8355.6	8365.2	8413.7	8428.3	8462.3	8506.0	8549.7	8612.9
27.5°	8146.9	8137.3	8142.1	8161.5	8176.1	8214.8	8224.6	8258.5	8292.5	8331.2	8384.8
30°	7773.2	7763.6	7758.8	7792.8	7807.4	7836.3	7850.9	7909.2	7918.8	7962.6	8001.3
32.5°	7278.3	7273.5	7283.3	7312.3	7326.8	7365.8	7385.2	7419.1	7443.3	7467.6	7506.4
35°	6725.3	6715.5	6725.3	6754.4	6754.4	6788.4	6803.0	6817.3	6812.5	6817.3	6807.8
37.5°	6211.0	6206.0	6211.0	6225.4	6211.0	6225.4	6211.0	6181.8	6128.5	6070.2	6011.9
40°	5774.2	5779.0	5750.0	5769.4	5715.9	5706.3	5653.0	5580.1	5473.4	5357.0	5192.0
42.5°	5308.4	5293.9	5274.5	5284.1	5240.5	5206.4	5119.1	5027.0	4891.0	4697.1	4498.0
45°	4735.8	4731.0	4721.3	4716.5	4687.3	4653.3	4580.4	4473.8	4323.4	4124.5	3886.6
47.5°	4177.8	4163.2	4163.2	4168.0	4134.1	4129.3	4071.0	3978.9	3847.9	3653.7	3406.3
50°	3643.9	3639.2	3648.9	3668.3	3643.9	3634.4	3595.6	3532.5	3416.1	3251.1	3018.0
52.5°	3163.6	3158.8	3168.6	3192.8	3183.0	3192.8	3154.0	3105.5	3027.8	2867.6	2663.9
55°	2693.1	2693.1	2693.1	2722.0	2722.0	2722.0	2702.7	2673.7	2600.8	2484.4	2295.2
57.5°	2202.9	2207.7	2236.9	2241.7	2236.9	2246.7	2241.7	2212.5	2164.2	2081.7	1936.1
60°	1790.5	1790.5	1805.1	1819.7	1814.7	1819.7	1819.7	1805.1	1756.6	1688.7	1572.2
62.5°	1416.8	1431.4	1421.6	1431.4	1450.8	1431.4	1421.6	1412.0	1378.1	1334.3	1237.3
65°	1072.3	1082.1	1082.1	1086.9	1077.1	1082.1	1062.7	1048.1	1028.8	980.2	917.1
67.5°	815.3	815.3	815.3	815.3	810.3	805.5	800.7	786.1	752.2	732.8	664.7
70°	625.9	596.8	596.8	596.8	596.8	601.8	587.2	567.8	558.0	524.1	475.5
72.5°	417.2	427.0	417.2	417.2	407.6	412.4	393.1	383.3	373.7	354.3	325.1
75°	300.8	276.6	286.2	291.2	276.6	286.2	266.8	247.5	247.5	232.9	218.3
77.5°	194.1	189.3	194.1	198.9	194.1	189.3	179.6	169.8	169.8	165.0	150.4
80°	140.8	135.8	135.8	135.8	131.0	135.8	126.2	126.2	116.4	111.6	101.9
82.5°	92.3	92.3	87.3	92.3	87.3	92.3	77.7	77.7	77.7	72.7	63.1
85°	63.1	53.3	53.3	58.3	48.5	58.3	53.3	48.5	43.7	43.7	38.7
87.5°	29.2	34.0	29.2	34.0	29.2	29.2	34.0	29.2	29.2	19.4	19.4
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°	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4
2.5°	9888.9	9893.7	9893.7	9913.2	9922.8	9927.6	9927.6	9966.6	9952.0	9961.8	9971.4
5°	9748.3	9777.2	9787.0	9787.0	9840.3	9859.7	9879.1	9922.8	9927.6	9956.8	9990.7
7.5°	9612.3	9646.2	9665.8	9709.3	9743.3	9777.2	9835.6	9864.7	9893.7	9932.6	9976.2
10°	9481.2	9520.2	9558.9	9592.9	9646.2	9690.0	9728.7	9796.6	9830.8	9884.1	9942.2
12.5°	9355.2	9408.5	9442.5	9500.6	9558.9	9597.7	9656.0	9719.1	9772.4	9825.8	9893.7
15°	9243.6	9306.7	9345.4	9408.5	9471.7	9525.0	9588.1	9665.8	9704.5	9767.6	9830.8
17.5°	9122.1	9190.3	9238.8	9296.9	9374.6	9432.7	9486.2	9563.7	9612.3	9680.2	9753.1
20°	8996.1	9064.0	9122.1	9180.5	9258.2	9316.3	9379.4	9457.1	9510.4	9578.3	9636.6
22.5°	8845.7	8908.8	8971.8	9039.7	9117.4	9165.9	9238.8	9306.7	9364.8	9427.9	9486.2
25°	8651.6	8729.3	8777.8	8840.7	8903.8	8957.2	9034.9	9102.8	9151.3	9209.6	9262.9
27.5°	8423.5	8481.8	8520.6	8573.9	8637.0	8685.6	8743.7	8811.8	8860.3	8913.6	8952.4
30°	8035.3	8088.8	8122.7	8161.5	8224.6	8268.3	8316.9	8379.8	8413.7	8452.7	8486.6
32.5°	7525.8	7569.5	7588.9	7618.0	7661.8	7705.3	7744.3	7797.6	7812.2	7836.3	7836.3
35°	6788.4	6798.0	6793.2	6803.0	6822.3	6846.5	6880.5	6914.4	6933.8	6933.8	6919.4
37.5°	5924.6	5866.5	5803.3	5754.8	5740.2	5730.5	5750.0	5764.4	5784.0	5793.6	5769.4
40°	5027.0	4896.0	4755.2	4629.0	4541.7	4503.0	4488.4	4498.0	4498.0	4531.9	4531.9
42.5°	4255.5	4051.6	3843.1	3653.7	3527.5	3430.6	3386.9	3386.9	3391.7	3416.1	3430.6
45°	3615.0	3357.7	3115.1	2906.6	2731.8	2605.6	2547.5	2532.9	2528.1	2537.7	2571.6
47.5°	3124.9	2858.0	2605.6	2348.5	2164.2	2038.0	1984.6	1965.1	1945.7	1965.1	1970.1
50°	2741.6	2465.0	2198.2	1940.9	1746.8	1635.1	1567.2	1538.1	1533.3	1533.3	1543.1
52.5°	2392.1	2135.0	1868.2	1606.2	1402.3	1295.6	1232.5	1217.9	1198.5	1217.9	1217.9
55°	2062.1	1805.1	1543.1	1295.6	1125.6	1014.2	955.9	936.5	926.7	941.3	941.3
57.5°	1703.2	1484.7	1242.3	1019.0	849.2	771.5	727.8	703.6	698.6	708.4	698.6
60°	1397.5	1213.1	1004.4	800.7	669.7	587.2	553.2	543.4	533.7	543.4	543.4
62.5°	1106.3	951.1	781.1	625.9	514.3	456.2	417.2	417.2	412.4	412.4	417.2
65°	820.1	698.6	577.4	446.4	359.1	315.4	286.2	286.2	281.4	286.2	281.4
67.5°	596.8	514.3	417.2	325.1	257.2	232.9	213.5	198.9	208.7	198.9	194.1
70°	436.8	368.7	300.8	247.5	198.9	174.8	160.2	155.2	145.6	145.6	145.6
72.5°	291.2	247.5	203.7	160.2	131.0	106.7	101.9	92.3	82.5	87.3	97.1
75°	194.1	165.0	145.6	116.4	87.3	87.3	58.3	58.3	48.5	58.3	43.7
77.5°	135.8	111.6	87.3	72.7	58.3	53.3	38.7	38.7	34.0	34.0	34.0
80°	97.1	82.5	63.1	53.3	38.7	38.7	34.0	29.2	24.2	24.2	29.2
82.5°	58.3	43.7	43.7	38.7	24.2	19.4	14.6	19.4	9.8	9.8	9.8
85°	34.0	29.2	24.2	14.6	9.8	9.8	4.8	0.0	4.8	4.8	0.0
87.5°	19.4	9.8	9.8	4.8	0.0	4.8	4.8	0.0	0.0	0.0	9.8
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°	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4
2.5°	9995.7	9990.7	10000.5	10000.5	10029.7	10024.7	10039.3	10039.3	10029.7	10034.5	10053.9
5°	10029.7	10044.3	10073.2	10097.6	10141.1	10160.7	10184.9	10209.2	10214.0	10228.6	10243.2
7.5°	10029.7	10078.2	10112.2	10155.7	10214.0	10248.0	10301.3	10345.0	10364.4	10388.6	10417.7
10°	10010.1	10058.6	10121.8	10170.3	10243.2	10296.5	10349.8	10417.7	10446.9	10485.7	10524.6
12.5°	9971.4	10024.7	10092.6	10155.7	10238.2	10286.7	10354.6	10417.7	10461.5	10514.8	10558.6
15°	9913.2	9976.2	10039.3	10102.4	10189.7	10248.0	10311.1	10383.8	10427.5	10485.7	10524.6
17.5°	9821.0	9888.9	9947.2	10005.3	10087.8	10155.7	10214.0	10281.9	10325.7	10374.2	10427.5
20°	9709.3	9772.4	9835.6	9884.1	9966.6	10024.7	10087.8	10150.9	10184.9	10194.7	10277.1
22.5°	9568.7	9612.3	9660.8	9738.5	9787.0	9840.3	9898.7	9956.8	9990.7	10044.3	10073.2
25°	9335.6	9379.4	9432.7	9466.7	9525.0	9568.7	9626.8	9690.0	9709.3	9748.3	9777.2
27.5°	9010.7	9034.9	9059.2	9088.2	9122.1	9146.5	9180.5	9209.6	9229.0	9248.4	9267.7
30°	8496.2	8496.2	8496.2	8476.8	8491.4	8506.0	8510.8	8506.0	8506.0	8501.2	8501.2
32.5°	7817.0	7778.2	7734.5	7695.7	7681.1	7661.8	7652.0	7637.4	7613.2	7598.7	7603.5
35°	6899.8	6812.5	6759.2	6710.7	6671.9	6642.8	6628.2	6613.6	6608.8	6589.5	6569.9
37.5°	5754.8	5691.7	5653.0	5623.8	5589.8	5560.7	5565.5	5570.5	5584.9	5575.3	5580.1
40°	4541.7	4527.1	4541.7	4507.7	4498.0	4507.7	4531.9	4566.1	4585.4	4604.8	4638.8
42.5°	3454.8	3479.0	3513.1	3513.1	3527.5	3547.1	3576.0	3629.6	3658.5	3692.5	3731.4
45°	2600.8	2630.0	2673.7	2688.1	2697.9	2722.0	2756.2	2799.7	2819.1	2848.2	2882.2
47.5°	2004.0	2023.4	2047.6	2071.9	2096.1	2105.9	2139.8	2139.8	2164.2	2183.6	2193.2
50°	1562.4	1581.8	1601.2	1615.8	1625.5	1640.1	1649.7	1664.3	1669.1	1678.9	1683.7
52.5°	1222.7	1247.1	1247.1	1256.7	1271.2	1285.8	1281.0	1285.8	1290.6	1290.6	1305.2
55°	955.9	955.9	970.5	970.5	980.2	975.2	980.2	980.2	980.2	980.2	985.0
57.5°	713.2	718.2	732.8	723.0	718.2	727.8	718.2	727.8	723.0	732.8	718.2
60°	548.2	548.2	553.2	553.2	558.0	558.0	558.0	553.2	553.2	548.2	548.2
62.5°	412.4	417.2	422.2	417.2	417.2	417.2	412.4	412.4	407.6	402.6	402.6
65°	276.6	271.8	281.4	271.8	276.6	276.6	271.8	276.6	262.0	266.8	262.0
67.5°	198.9	194.1	189.3	194.1	189.3	184.3	184.3	189.3	194.1	179.6	179.6
70°	131.0	135.8	131.0	135.8	140.8	140.8	135.8	131.0	135.8	126.2	131.0
72.5°	82.5	82.5	82.5	82.5	82.5	87.3	87.3	87.3	77.7	77.7	72.7
75°	38.7	53.3	43.7	38.7	53.3	53.3	48.5	48.5	43.7	43.7	43.7
77.5°	38.7	29.2	29.2	29.2	29.2	29.2	29.2	29.2	24.2	29.2	24.2
80°	19.4	19.4	19.4	14.6	19.4	19.4	24.2	19.4	19.4	14.6	24.2
82.5°	9.8	9.8	9.8	0.0	4.8	9.8	9.8	4.8	9.8	9.8	4.8
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: P248910

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4
2.5°	10049.1	10044.3	10049.1	10053.9	10049.1	10044.3	10049.1	10053.9	10034.5	10029.7	10039.3
5°	10262.6	10262.6	10272.1	10277.1	10272.1	10262.6	10262.6	10243.2	10228.6	10214.0	10209.2
7.5°	10446.9	10456.7	10466.3	10471.1	10466.3	10456.7	10446.9	10417.7	10388.6	10364.4	10345.0
10°	10558.6	10573.1	10592.5	10602.1	10592.5	10573.1	10558.6	10524.6	10485.7	10446.9	10417.7
12.5°	10607.1	10621.7	10645.8	10641.0	10645.8	10621.7	10607.1	10558.6	10514.8	10461.5	10417.7
15°	10573.1	10592.5	10616.7	10626.5	10616.7	10592.5	10573.1	10524.6	10485.7	10427.5	10383.8
17.5°	10466.3	10495.4	10510.0	10524.6	10510.0	10495.4	10466.3	10427.5	10374.2	10325.7	10281.9
20°	10320.7	10340.3	10359.6	10364.4	10359.6	10340.3	10320.7	10277.1	10194.7	10184.9	10150.9
22.5°	10112.2	10126.8	10170.3	10155.7	10170.3	10126.8	10112.2	10073.2	10044.3	9990.7	9956.8
25°	9811.2	9825.8	9830.8	9835.6	9830.8	9825.8	9811.2	9777.2	9748.3	9709.3	9690.0
27.5°	9292.1	9292.1	9301.7	9306.7	9301.7	9292.1	9292.1	9267.7	9248.4	9229.0	9209.6
30°	8506.0	8506.0	8506.0	8530.4	8506.0	8506.0	8506.0	8501.2	8501.2	8506.0	8506.0
32.5°	7598.7	7588.9	7579.3	7588.9	7579.3	7588.9	7598.7	7603.5	7598.7	7613.2	7637.4
35°	6569.9	6565.1	6579.7	6560.3	6579.7	6565.1	6569.9	6569.9	6589.5	6608.8	6613.6
37.5°	5584.9	5575.3	5594.6	5575.3	5594.6	5575.3	5584.9	5580.1	5575.3	5584.9	5570.5
40°	4648.6	4658.1	4658.1	4697.1	4658.1	4658.1	4648.6	4638.8	4604.8	4585.4	4566.1
42.5°	3750.8	3780.0	3770.2	3799.3	3770.2	3780.0	3750.8	3731.4	3692.5	3658.5	3629.6
45°	2901.6	2921.1	2921.1	2930.7	2921.1	2921.1	2901.6	2882.2	2848.2	2819.1	2799.7
47.5°	2227.1	2227.1	2227.1	2232.1	2227.1	2227.1	2227.1	2193.2	2183.6	2164.2	2139.8
50°	1693.5	1698.2	1703.2	1708.0	1703.2	1698.2	1693.5	1683.7	1678.9	1669.1	1664.3
52.5°	1300.4	1305.2	1295.6	1305.2	1295.6	1305.2	1300.4	1305.2	1290.6	1290.6	1285.8
55°	985.0	980.2	985.0	989.8	985.0	980.2	985.0	985.0	980.2	980.2	980.2
57.5°	723.0	713.2	713.2	713.2	713.2	713.2	723.0	718.2	732.8	723.0	727.8
60°	538.7	543.4	543.4	548.2	543.4	543.4	538.7	548.2	548.2	553.2	553.2
62.5°	397.8	412.4	402.6	412.4	402.6	412.4	397.8	402.6	402.6	407.6	412.4
65°	257.2	257.2	257.2	262.0	257.2	257.2	257.2	262.0	266.8	262.0	276.6
67.5°	174.8	179.6	189.3	184.3	189.3	179.6	174.8	179.6	179.6	194.1	189.3
70°	140.8	126.2	126.2	140.8	126.2	126.2	140.8	131.0	126.2	135.8	131.0
72.5°	82.5	72.7	82.5	82.5	82.5	72.7	82.5	72.7	77.7	77.7	87.3
75°	43.7	38.7	34.0	48.5	34.0	38.7	43.7	43.7	43.7	43.7	48.5
77.5°	29.2	24.2	34.0	34.0	34.0	24.2	29.2	24.2	29.2	24.2	29.2
80°	14.6	19.4	14.6	24.2	14.6	19.4	14.6	24.2	14.6	19.4	19.4
82.5°	4.8	9.8	9.8	9.8	9.8	9.8	4.8	4.8	9.8	9.8	4.8
85°	0.0	9.8	4.8	4.8	4.8	9.8	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	0.0	0.0	4.8	0.0	0.0	4.8	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: P248910

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4
2.5°	10039.3	10024.7	10029.7	10000.5	10000.5	9990.7	9995.7	9971.4	9961.8	9952.0	9966.6
5°	10184.9	10160.7	10141.1	10097.6	10073.2	10044.3	10029.7	9990.7	9956.8	9927.6	9922.8
7.5°	10301.3	10248.0	10214.0	10155.7	10112.2	10078.2	10029.7	9976.2	9932.6	9893.7	9864.7
10°	10349.8	10296.5	10243.2	10170.3	10121.8	10058.6	10010.1	9942.2	9884.1	9830.8	9796.6
12.5°	10354.6	10286.7	10238.2	10155.7	10092.6	10024.7	9971.4	9893.7	9825.8	9772.4	9719.1
15°	10311.1	10248.0	10189.7	10102.4	10039.3	9976.2	9913.2	9830.8	9767.6	9704.5	9665.8
17.5°	10214.0	10155.7	10087.8	10005.3	9947.2	9888.9	9821.0	9753.1	9680.2	9612.3	9563.7
20°	10087.8	10024.7	9966.6	9884.1	9835.6	9772.4	9709.3	9636.6	9578.3	9510.4	9457.1
22.5°	9898.7	9840.3	9787.0	9738.5	9660.8	9612.3	9568.7	9486.2	9427.9	9364.8	9306.7
25°	9626.8	9568.7	9525.0	9466.7	9432.7	9379.4	9335.6	9262.9	9209.6	9151.3	9102.8
27.5°	9180.5	9146.5	9122.1	9088.2	9059.2	9034.9	9010.7	8952.4	8913.6	8860.3	8811.8
30°	8510.8	8506.0	8491.4	8476.8	8496.2	8496.2	8496.2	8486.6	8452.7	8413.7	8379.8
32.5°	7652.0	7661.8	7681.1	7695.7	7734.5	7778.2	7817.0	7836.3	7836.3	7812.2	7797.6
35°	6628.2	6642.8	6671.9	6710.7	6759.2	6812.5	6899.8	6919.4	6933.8	6933.8	6914.4
37.5°	5565.5	5560.7	5589.8	5623.8	5653.0	5691.7	5754.8	5769.4	5793.6	5784.0	5764.4
40°	4531.9	4507.7	4498.0	4507.7	4541.7	4527.1	4541.7	4531.9	4531.9	4498.0	4498.0
42.5°	3576.0	3547.1	3527.5	3513.1	3513.1	3479.0	3454.8	3430.6	3416.1	3391.7	3386.9
45°	2756.2	2722.0	2697.9	2688.1	2673.7	2630.0	2600.8	2571.6	2537.7	2528.1	2532.9
47.5°	2139.8	2105.9	2096.1	2071.9	2047.6	2023.4	2004.0	1970.1	1965.1	1945.7	1965.1
50°	1649.7	1640.1	1625.5	1615.8	1601.2	1581.8	1562.4	1543.1	1533.3	1533.3	1538.1
52.5°	1281.0	1285.8	1271.2	1256.7	1247.1	1247.1	1222.7	1217.9	1217.9	1198.5	1217.9
55°	980.2	975.2	980.2	970.5	970.5	955.9	955.9	941.3	941.3	926.7	936.5
57.5°	718.2	727.8	718.2	723.0	732.8	718.2	713.2	698.6	708.4	698.6	703.6
60°	558.0	558.0	558.0	553.2	553.2	548.2	548.2	543.4	543.4	533.7	543.4
62.5°	412.4	417.2	417.2	417.2	422.2	417.2	412.4	417.2	412.4	412.4	417.2
65°	271.8	276.6	276.6	271.8	281.4	271.8	276.6	281.4	286.2	281.4	286.2
67.5°	184.3	184.3	189.3	194.1	189.3	194.1	198.9	194.1	198.9	208.7	198.9
70°	135.8	140.8	140.8	135.8	131.0	135.8	131.0	145.6	145.6	145.6	155.2
72.5°	87.3	87.3	82.5	82.5	82.5	82.5	82.5	97.1	87.3	82.5	92.3
75°	48.5	53.3	53.3	38.7	43.7	53.3	38.7	43.7	58.3	48.5	58.3
77.5°	29.2	29.2	29.2	29.2	29.2	29.2	38.7	34.0	34.0	34.0	38.7
80°	24.2	19.4	19.4	14.6	19.4	19.4	19.4	29.2	24.2	24.2	29.2
82.5°	9.8	9.8	4.8	0.0	9.8	9.8	9.8	9.8	9.8	9.8	19.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	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: P248910

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4
2.5°	9927.6	9927.6	9922.8	9913.2	9893.7	9893.7	9888.9	9874.3	9864.7	9859.7	9859.7
5°	9879.1	9859.7	9840.3	9787.0	9787.0	9777.2	9748.3	9728.7	9719.1	9694.8	9685.2
7.5°	9835.6	9777.2	9743.3	9709.3	9665.8	9646.2	9612.3	9597.7	9563.7	9539.6	9525.0
10°	9728.7	9690.0	9646.2	9592.9	9558.9	9520.2	9481.2	9452.3	9408.5	9384.2	9364.8
12.5°	9656.0	9597.7	9558.9	9500.6	9442.5	9408.5	9355.2	9321.3	9277.5	9229.0	9199.8
15°	9588.1	9525.0	9471.7	9408.5	9345.4	9306.7	9243.6	9204.8	9141.7	9093.2	9059.2
17.5°	9486.2	9432.7	9374.6	9296.9	9238.8	9190.3	9122.1	9073.8	9015.5	8952.4	8918.4
20°	9379.4	9316.3	9258.2	9180.5	9122.1	9064.0	8996.1	8942.8	8874.7	8816.6	8777.8
22.5°	9238.8	9165.9	9117.4	9039.7	8971.8	8908.8	8845.7	8782.6	8719.5	8671.0	8627.2
25°	9034.9	8957.2	8903.8	8840.7	8777.8	8729.3	8651.6	8612.9	8549.7	8506.0	8462.3
27.5°	8743.7	8685.6	8637.0	8573.9	8520.6	8481.8	8423.5	8384.8	8331.2	8292.5	8258.5
30°	8316.9	8268.3	8224.6	8161.5	8122.7	8088.8	8035.3	8001.3	7962.6	7918.8	7909.2
32.5°	7744.3	7705.3	7661.8	7618.0	7588.9	7569.5	7525.8	7506.4	7467.6	7443.3	7419.1
35°	6880.5	6846.5	6822.3	6803.0	6793.2	6798.0	6788.4	6807.8	6817.3	6812.5	6817.3
37.5°	5750.0	5730.5	5740.2	5754.8	5803.3	5866.5	5924.6	6011.9	6070.2	6128.5	6181.8
40°	4488.4	4503.0	4541.7	4629.0	4755.2	4896.0	5027.0	5192.0	5357.0	5473.4	5580.1
42.5°	3386.9	3430.6	3527.5	3653.7	3843.1	4051.6	4255.5	4498.0	4697.1	4891.0	5027.0
45°	2547.5	2605.6	2731.8	2906.6	3115.1	3357.7	3615.0	3886.6	4124.5	4323.4	4473.8
47.5°	1984.6	2038.0	2164.2	2348.5	2605.6	2858.0	3124.9	3406.3	3653.7	3847.9	3978.9
50°	1567.2	1635.1	1746.8	1940.9	2198.2	2465.0	2741.6	3018.0	3251.1	3416.1	3532.5
52.5°	1232.5	1295.6	1402.3	1606.2	1868.2	2135.0	2392.1	2663.9	2867.6	3027.8	3105.5
55°	955.9	1014.2	1125.6	1295.6	1543.1	1805.1	2062.1	2295.2	2484.4	2600.8	2673.7
57.5°	727.8	771.5	849.2	1019.0	1242.3	1484.7	1703.2	1936.1	2081.7	2164.2	2212.5
60°	553.2	587.2	669.7	800.7	1004.4	1213.1	1397.5	1572.2	1688.7	1756.6	1805.1
62.5°	417.2	456.2	514.3	625.9	781.1	951.1	1106.3	1237.3	1334.3	1378.1	1412.0
65°	286.2	315.4	359.1	446.4	577.4	698.6	820.1	917.1	980.2	1028.8	1048.1
67.5°	213.5	232.9	257.2	325.1	417.2	514.3	596.8	664.7	732.8	752.2	786.1
70°	160.2	174.8	198.9	247.5	300.8	368.7	436.8	475.5	524.1	558.0	567.8
72.5°	101.9	106.7	131.0	160.2	203.7	247.5	291.2	325.1	354.3	373.7	383.3
75°	58.3	87.3	87.3	116.4	145.6	165.0	194.1	218.3	232.9	247.5	247.5
77.5°	38.7	53.3	58.3	72.7	87.3	111.6	135.8	150.4	165.0	169.8	169.8
80°	34.0	38.7	38.7	53.3	63.1	82.5	97.1	101.9	111.6	116.4	126.2
82.5°	14.6	19.4	24.2	38.7	43.7	43.7	58.3	63.1	72.7	77.7	77.7
85°	4.8	9.8	9.8	14.6	24.2	29.2	34.0	38.7	43.7	43.7	48.5
87.5°	4.8	4.8	0.0	4.8	9.8	9.8	19.4	19.4	19.4	29.2	29.2
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: P248910

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4	9937.4
2.5°	9850.1	9854.9	9835.6	9830.8	9821.0	9825.8	9835.6
5°	9670.6	9675.4	9656.0	9636.6	9636.6	9631.6	9636.6
7.5°	9500.6	9505.6	9476.5	9466.7	9447.3	9452.3	9452.3
10°	9330.9	9330.9	9287.3	9282.3	9267.7	9262.9	9262.9
12.5°	9165.9	9151.3	9117.4	9098.0	9107.8	9078.6	9078.6
15°	9020.3	8996.1	8952.4	8937.8	8913.6	8903.8	8903.8
17.5°	8869.9	8850.5	8811.8	8782.6	8753.5	8748.7	8753.5
20°	8724.3	8704.9	8656.4	8637.0	8612.9	8612.9	8603.1
22.5°	8578.7	8559.3	8515.8	8501.2	8467.3	8467.3	8472.0
25°	8428.3	8413.7	8365.2	8355.6	8350.8	8331.2	8341.0
27.5°	8224.6	8214.8	8176.1	8161.5	8142.1	8137.3	8146.9
30°	7850.9	7836.3	7807.4	7792.8	7758.8	7763.6	7773.2
32.5°	7385.2	7365.8	7326.8	7312.3	7283.3	7273.5	7278.3
35°	6803.0	6788.4	6754.4	6754.4	6725.3	6715.5	6725.3
37.5°	6211.0	6225.4	6211.0	6225.4	6211.0	6206.0	6211.0
40°	5653.0	5706.3	5715.9	5769.4	5750.0	5779.0	5774.2
42.5°	5119.1	5206.4	5240.5	5284.1	5274.5	5293.9	5308.4
45°	4580.4	4653.3	4687.3	4716.5	4721.3	4731.0	4735.8
47.5°	4071.0	4129.3	4134.1	4168.0	4163.2	4163.2	4177.8
50°	3595.6	3634.4	3643.9	3668.3	3648.9	3639.2	3643.9
52.5°	3154.0	3192.8	3183.0	3192.8	3168.6	3158.8	3163.6
55°	2702.7	2722.0	2722.0	2722.0	2693.1	2693.1	2693.1
57.5°	2241.7	2246.7	2236.9	2241.7	2236.9	2207.7	2202.9
60°	1819.7	1819.7	1814.7	1819.7	1805.1	1790.5	1790.5
62.5°	1421.6	1431.4	1450.8	1431.4	1421.6	1431.4	1416.8
65°	1062.7	1082.1	1077.1	1086.9	1082.1	1082.1	1072.3
67.5°	800.7	805.5	810.3	815.3	815.3	815.3	815.3
70°	587.2	601.8	596.8	596.8	596.8	596.8	625.9
72.5°	393.1	412.4	407.6	417.2	417.2	427.0	417.2
75°	266.8	286.2	276.6	291.2	286.2	276.6	300.8
77.5°	179.6	189.3	194.1	198.9	194.1	189.3	194.1
80°	126.2	135.8	131.0	135.8	135.8	135.8	140.8
82.5°	77.7	92.3	87.3	92.3	87.3	92.3	92.3
85°	53.3	58.3	48.5	58.3	53.3	53.3	63.1
87.5°	34.0	29.2	29.2	34.0	29.2	34.0	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)