

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: P249018

Luminaire Tested: **LD8B200D010 ER8B200850 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249018  
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 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21678.0 lumens  
Efficiency: N/A  
Efficacy: 97.1 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

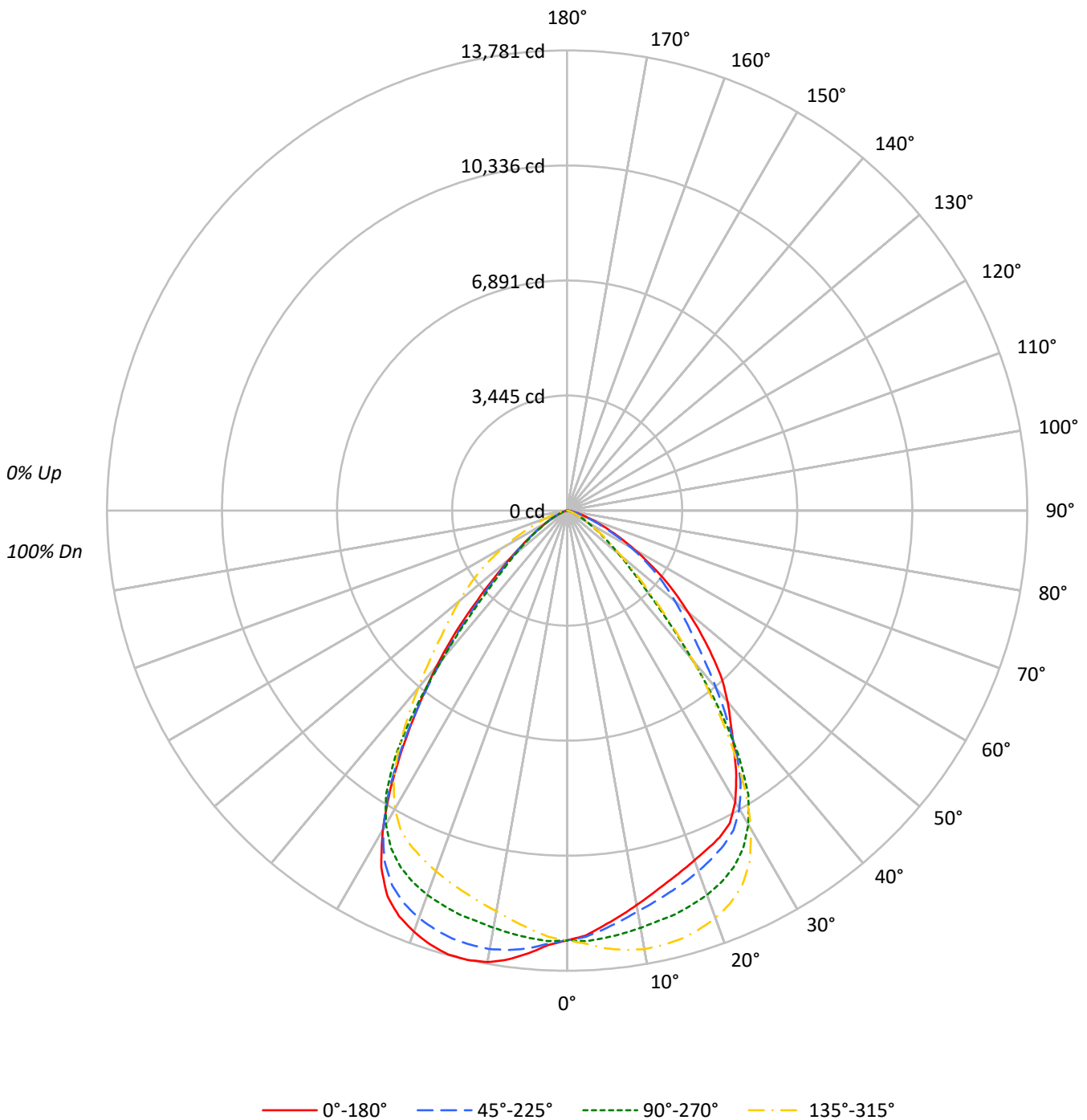
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	396848	396848	396848	396848
5°	386307	397782	411984	397782
10°	375622	397262	429923	397262
15°	368117	399620	439336	399620
20°	365612	401906	440464	401906
25°	367532	401097	433385	401097
30°	358446	386415	393358	386415
35°	327866	337089	319825	337089
40°	301015	234483	244865	234483
45°	267464	143047	165518	143047
50°	226388	95557	106116	95557
55°	187504	65202	68917	65202
60°	143006	43405	43788	43405
65°	101326	27041	24764	27041
70°	73083	18122	16445	18122
75°	46406	8995	7494	8995
80°	32390	6712	5558	6712
85°	28906	0	2194	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1224.9	5.7
10°-20°	3547.2	16.4
20°-30°	5371.2	24.8
30°-40°	5383.3	24.8
40°-50°	3380.4	15.6
50°-60°	1801.4	8.3
60°-70°	740.8	3.4
70°-80°	195.7	0.9
80°-90°	33.1	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°	10143.3	46.8
0°-40°	15526.6	71.6
0°-60°	20708.4	95.5
0°-90°	21678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	12870	12870	12870	12870	12870	
5°	12480	12851	13310	12851	12480	###
15°	11531	12518	13762	12518	11531	3261
25°	10802	11789	12738	11789	10802	4954
35°	8710	8955	8496	8955	8710	5457
45°	6133	3280	3796	3280	6133	4717
55°	3488	1213	1282	1213	3488	3109
65°	1389	371	339	371	1389	1441
75°	390	76	63	76	390	441
85°	82	0	6	0	82	90
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°	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5
2.5°	12737.6	12725.0	12718.7	12731.4	12737.6	12762.7	12756.5	12768.9	12768.9	12775.4	12787.8
5°	12480.0	12473.5	12480.0	12480.0	12505.1	12530.2	12524.0	12542.9	12555.3	12586.8	12599.2
7.5°	12241.3	12241.3	12234.8	12259.9	12272.6	12310.3	12303.9	12335.4	12354.3	12385.6	12429.6
10°	11996.1	11996.1	12002.3	12021.2	12027.6	12084.0	12084.0	12128.0	12153.1	12184.6	12241.3
12.5°	11757.3	11757.3	11795.1	11782.4	11807.5	11851.5	11870.4	11914.3	11952.1	12015.0	12071.6
15°	11531.0	11531.0	11543.7	11575.0	11593.9	11650.5	11681.8	11732.2	11776.2	11839.1	11920.8
17.5°	11336.2	11330.0	11336.2	11374.0	11411.8	11462.0	11487.0	11549.9	11593.9	11675.6	11751.1
20°	11141.5	11154.2	11154.2	11185.5	11210.5	11273.4	11298.5	11367.8	11418.0	11493.2	11581.4
22.5°	10971.8	10965.6	10965.6	11009.6	11028.4	11084.8	11109.9	11172.8	11229.4	11292.3	11374.0
25°	10802.1	10789.5	10814.8	10821.0	10833.4	10896.3	10915.2	10959.1	11015.8	11072.4	11154.2
27.5°	10550.7	10538.3	10544.5	10569.6	10588.5	10638.7	10651.3	10695.3	10739.3	10789.5	10858.8
30°	10066.8	10054.4	10048.2	10092.1	10111.0	10148.5	10167.4	10242.9	10255.3	10312.0	10362.2
32.5°	9425.8	9419.6	9432.3	9469.8	9488.7	9539.1	9564.2	9608.2	9639.5	9671.0	9721.2
35°	8709.6	8697.0	8709.6	8747.4	8747.4	8791.4	8810.2	8828.9	8822.7	8828.9	8816.4
37.5°	8043.6	8037.1	8043.6	8062.2	8043.6	8062.2	8043.6	8005.8	7936.8	7861.2	7785.7
40°	7477.9	7484.1	7446.6	7471.7	7402.4	7390.0	7320.9	7226.5	7088.4	6937.6	6723.9
42.5°	6874.7	6855.9	6830.8	6843.2	6786.8	6742.6	6629.5	6510.3	6334.2	6083.0	5825.1
45°	6133.2	6127.0	6114.3	6108.1	6070.3	6026.4	5931.9	5793.8	5599.1	5341.4	5033.4
47.5°	5410.5	5391.6	5391.6	5397.8	5353.9	5347.7	5272.1	5152.9	4983.2	4731.8	4411.3
50°	4719.1	4712.9	4725.6	4750.7	4719.1	4706.7	4656.5	4574.8	4424.0	4210.4	3908.5
52.5°	4097.1	4090.9	4103.5	4134.8	4122.2	4134.8	4084.6	4021.8	3921.2	3713.7	3449.9
55°	3487.7	3487.7	3487.7	3525.2	3525.2	3525.2	3500.1	3462.6	3368.2	3217.4	2972.4
57.5°	2852.9	2859.2	2896.9	2903.1	2896.9	2909.6	2903.1	2865.4	2802.8	2695.9	2507.4
60°	2318.8	2318.8	2337.7	2356.6	2350.1	2356.6	2356.6	2337.7	2274.9	2186.9	2036.1
62.5°	1834.9	1853.8	1841.1	1853.8	1878.9	1853.8	1841.1	1828.7	1784.7	1728.1	1602.4
65°	1388.7	1401.4	1401.4	1407.6	1394.9	1401.4	1376.3	1357.4	1332.3	1269.5	1187.7
67.5°	1055.8	1055.8	1055.8	1055.8	1049.4	1043.1	1036.9	1018.1	974.1	949.0	860.8
70°	810.6	772.9	772.9	772.9	772.9	779.3	760.4	735.4	722.7	678.7	615.9
72.5°	540.3	553.0	540.3	540.3	527.9	534.1	509.0	496.4	483.9	458.9	421.1
75°	389.5	358.2	370.6	377.1	358.2	370.6	345.6	320.5	320.5	301.6	282.7
77.5°	251.4	245.2	251.4	257.6	251.4	245.2	232.5	219.9	219.9	213.6	194.8
80°	182.4	175.9	175.9	175.9	169.7	175.9	163.5	163.5	150.8	144.6	131.9
82.5°	119.5	119.5	113.0	119.5	113.0	119.5	100.6	100.6	100.6	94.1	81.7
85°	81.7	69.1	69.1	75.5	62.9	75.5	69.1	62.9	56.6	56.6	50.2
87.5°	37.8	44.0	37.8	44.0	37.8	37.8	44.0	37.8	37.8	25.1	25.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5
2.5°	12806.7	12812.9	12812.9	12838.2	12850.7	12856.9	12856.9	12907.3	12888.4	12901.1	12913.5
5°	12624.6	12662.1	12674.8	12674.8	12743.8	12768.9	12794.0	12850.7	12856.9	12894.6	12938.6
7.5°	12448.5	12492.4	12517.8	12574.2	12618.1	12662.1	12737.6	12775.4	12812.9	12863.3	12919.7
10°	12278.8	12329.2	12379.4	12423.4	12492.4	12549.1	12599.2	12687.2	12731.4	12800.5	12875.7
12.5°	12115.6	12184.6	12228.6	12303.9	12379.4	12429.6	12505.1	12586.8	12655.9	12725.0	12812.9
15°	11971.0	12052.7	12102.9	12184.6	12266.4	12335.4	12417.2	12517.8	12568.0	12649.7	12731.4
17.5°	11813.7	11901.9	11964.8	12040.0	12140.7	12215.9	12285.2	12385.6	12448.5	12536.4	12630.8
20°	11650.5	11738.5	11813.7	11889.2	11989.9	12065.1	12146.9	12247.5	12316.5	12404.5	12480.0
22.5°	11455.7	11537.5	11619.0	11706.9	11807.5	11870.4	11964.8	12052.7	12128.0	12209.7	12285.2
25°	11204.3	11304.9	11367.8	11449.3	11531.0	11600.1	11700.7	11788.6	11851.5	11927.0	11996.1
27.5°	10909.0	10984.5	11034.7	11103.7	11185.5	11248.3	11323.6	11411.8	11474.6	11543.7	11593.9
30°	10406.1	10475.4	10519.4	10569.6	10651.3	10708.0	10770.8	10852.3	10896.3	10946.7	10990.7
32.5°	9746.3	9803.0	9828.0	9865.8	9922.4	9978.8	10029.3	10098.3	10117.2	10148.5	10148.5
35°	8791.4	8803.8	8797.6	8810.2	8835.3	8866.6	8910.6	8954.6	8979.7	8979.7	8961.0
37.5°	7672.7	7597.4	7515.7	7452.8	7433.9	7421.3	7446.6	7465.2	7490.6	7503.0	7471.7
40°	6510.3	6340.6	6158.3	5994.8	5881.8	5831.6	5812.7	5825.1	5825.1	5869.1	5869.1
42.5°	5511.1	5247.0	4977.0	4731.8	4568.3	4442.9	4386.2	4386.2	4392.4	4424.0	4442.9
45°	4681.6	4348.5	4034.2	3764.2	3537.9	3374.4	3299.1	3280.2	3274.0	3286.4	3330.4
47.5°	4046.9	3701.3	3374.4	3041.5	2802.8	2639.3	2570.2	2544.9	2519.8	2544.9	2551.4
50°	3550.5	3192.3	2846.7	2513.6	2262.2	2117.6	2029.7	1991.9	1985.7	1985.7	1998.4
52.5°	3097.9	2765.0	2419.4	2080.1	1816.0	1677.9	1596.1	1577.3	1552.2	1577.3	1577.3
55°	2670.6	2337.7	1998.4	1677.9	1457.8	1313.4	1237.9	1212.8	1200.2	1219.0	1219.0
57.5°	2205.8	1922.8	1608.8	1319.6	1099.8	999.2	942.5	911.2	904.8	917.4	904.8
60°	1809.8	1571.1	1300.8	1036.9	867.3	760.4	716.5	703.8	691.1	703.8	703.8
62.5°	1432.7	1231.7	1011.6	810.6	666.0	590.8	540.3	540.3	534.1	534.1	540.3
65°	1062.0	904.8	747.8	578.1	465.1	408.4	370.6	370.6	364.4	370.6	364.4
67.5°	772.9	666.0	540.3	421.1	333.1	301.6	276.5	257.6	270.3	257.6	251.4
70°	565.7	477.5	389.5	320.5	257.6	226.3	207.4	201.0	188.6	188.6	188.6
72.5°	377.1	320.5	263.8	207.4	169.7	138.1	131.9	119.5	106.8	113.0	125.7
75°	251.4	213.6	188.6	150.8	113.0	113.0	75.5	75.5	62.9	75.5	56.6
77.5°	175.9	144.6	113.0	94.1	75.5	69.1	50.2	50.2	44.0	44.0	44.0
80°	125.7	106.8	81.7	69.1	50.2	50.2	44.0	37.8	31.3	31.3	37.8
82.5°	75.5	56.6	56.6	50.2	31.3	25.1	18.9	25.1	12.7	12.7	12.7
85°	44.0	37.8	31.3	18.9	12.7	12.7	6.2	0.0	6.2	6.2	0.0
87.5°	25.1	12.7	12.7	6.2	0.0	6.2	6.2	0.0	0.0	0.0	12.7
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°	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5
2.5°	12945.1	12938.6	12951.3	12951.3	12989.0	12982.6	13001.5	13001.5	12989.0	12995.2	13020.3
5°	12989.0	13007.9	13045.4	13077.0	13133.4	13158.7	13190.0	13221.6	13227.8	13246.7	13265.5
7.5°	12989.0	13051.9	13095.9	13152.2	13227.8	13271.7	13340.8	13397.5	13422.5	13453.8	13491.6
10°	12963.7	13026.5	13108.3	13171.1	13265.5	13334.6	13403.7	13491.6	13529.4	13579.5	13630.0
12.5°	12913.5	12982.6	13070.5	13152.2	13259.1	13321.9	13409.9	13491.6	13548.2	13617.3	13674.0
15°	12838.2	12919.7	13001.5	13083.2	13196.2	13271.7	13353.5	13447.6	13504.3	13579.5	13630.0
17.5°	12718.7	12806.7	12882.2	12957.5	13064.3	13152.2	13227.8	13315.7	13372.4	13435.2	13504.3
20°	12574.2	12655.9	12737.6	12800.5	12907.3	12982.6	13064.3	13146.0	13190.0	13202.7	13309.5
22.5°	12392.1	12448.5	12511.3	12611.9	12674.8	12743.8	12819.4	12894.6	12938.6	13007.9	13045.4
25°	12090.2	12146.9	12215.9	12259.9	12335.4	12392.1	12467.3	12549.1	12574.2	12624.6	12662.1
27.5°	11669.4	11700.7	11732.2	11769.7	11813.7	11845.3	11889.2	11927.0	11952.1	11977.2	12002.3
30°	11003.1	11003.1	11003.1	10978.0	10996.9	11015.8	11022.0	11015.8	11015.8	11009.6	11009.6
32.5°	10123.4	10073.2	10016.6	9966.4	9947.5	9922.4	9909.8	9890.9	9859.6	9840.7	9846.9
35°	8935.7	8822.7	8753.6	8690.7	8640.6	8602.8	8583.9	8565.0	8558.8	8533.7	8508.4
37.5°	7452.8	7371.1	7320.9	7283.2	7239.2	7201.4	7207.6	7214.1	7232.7	7220.3	7226.5
40°	5881.8	5862.9	5881.8	5837.8	5825.1	5837.8	5869.1	5913.3	5938.4	5963.5	6007.5
42.5°	4474.2	4505.5	4549.7	4549.7	4568.3	4593.7	4631.2	4700.5	4738.0	4782.0	4832.4
45°	3368.2	3405.9	3462.6	3481.2	3493.9	3525.2	3569.4	3625.8	3650.9	3688.7	3732.6
47.5°	2595.3	2620.4	2651.7	2683.3	2714.6	2727.2	2771.2	2771.2	2802.8	2827.9	2840.3
50°	2023.4	2048.5	2073.6	2092.5	2105.2	2124.1	2136.5	2155.4	2161.6	2174.2	2180.4
52.5°	1583.5	1615.0	1615.0	1627.4	1646.3	1665.2	1659.0	1665.2	1671.4	1671.4	1690.3
55°	1237.9	1237.9	1256.8	1256.8	1269.5	1263.0	1269.5	1269.5	1269.5	1269.5	1275.7
57.5°	923.7	930.1	949.0	936.3	930.1	942.5	930.1	942.5	936.3	949.0	930.1
60°	710.0	710.0	716.5	716.5	722.7	722.7	722.7	716.5	716.5	710.0	710.0
62.5°	534.1	540.3	546.8	540.3	540.3	540.3	534.1	534.1	527.9	521.4	521.4
65°	358.2	352.0	364.4	352.0	358.2	358.2	352.0	358.2	339.4	345.6	339.4
67.5°	257.6	251.4	245.2	251.4	245.2	238.7	238.7	245.2	251.4	232.5	232.5
70°	169.7	175.9	169.7	175.9	182.4	182.4	175.9	169.7	175.9	163.5	169.7
72.5°	106.8	106.8	106.8	106.8	106.8	113.0	113.0	113.0	100.6	100.6	94.1
75°	50.2	69.1	56.6	50.2	69.1	69.1	62.9	62.9	56.6	56.6	56.6
77.5°	50.2	37.8	37.8	37.8	37.8	37.8	37.8	37.8	31.3	37.8	31.3
80°	25.1	25.1	25.1	18.9	25.1	25.1	31.3	25.1	25.1	18.9	31.3
82.5°	12.7	12.7	12.7	0.0	6.2	12.7	12.7	6.2	12.7	12.7	6.2
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: P249018

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5
2.5°	13014.1	13007.9	13014.1	13020.3	13014.1	13007.9	13014.1	13020.3	12995.2	12989.0	13001.5
5°	13290.6	13290.6	13303.0	13309.5	13303.0	13290.6	13290.6	13265.5	13246.7	13227.8	13221.6
7.5°	13529.4	13542.0	13554.5	13560.7	13554.5	13542.0	13529.4	13491.6	13453.8	13422.5	13397.5
10°	13674.0	13692.8	13717.9	13730.3	13717.9	13692.8	13674.0	13630.0	13579.5	13529.4	13491.6
12.5°	13736.8	13755.7	13787.0	13780.8	13787.0	13755.7	13736.8	13674.0	13617.3	13548.2	13491.6
15°	13692.8	13717.9	13749.2	13761.9	13749.2	13717.9	13692.8	13630.0	13579.5	13504.3	13447.6
17.5°	13554.5	13592.2	13611.1	13630.0	13611.1	13592.2	13554.5	13504.3	13435.2	13372.4	13315.7
20°	13365.9	13391.2	13416.3	13422.5	13416.3	13391.2	13365.9	13309.5	13202.7	13190.0	13146.0
22.5°	13095.9	13114.7	13171.1	13152.2	13171.1	13114.7	13095.9	13045.4	13007.9	12938.6	12894.6
25°	12706.1	12725.0	12731.4	12737.6	12731.4	12725.0	12706.1	12662.1	12624.6	12574.2	12549.1
27.5°	12033.8	12033.8	12046.2	12052.7	12046.2	12033.8	12033.8	12002.3	11977.2	11952.1	11927.0
30°	11015.8	11015.8	11015.8	11047.3	11015.8	11015.8	11015.8	11009.6	11009.6	11015.8	11015.8
32.5°	9840.7	9828.0	9815.6	9828.0	9815.6	9828.0	9840.7	9846.9	9840.7	9859.6	9890.9
35°	8508.4	8502.2	8521.1	8496.0	8521.1	8502.2	8508.4	8508.4	8533.7	8558.8	8565.0
37.5°	7232.7	7220.3	7245.4	7220.3	7245.4	7220.3	7232.7	7226.5	7220.3	7232.7	7214.1
40°	6020.2	6032.6	6032.6	6083.0	6032.6	6032.6	6020.2	6007.5	5963.5	5938.4	5913.3
42.5°	4857.5	4895.3	4882.6	4920.4	4882.6	4895.3	4857.5	4832.4	4782.0	4738.0	4700.5
45°	3757.7	3783.1	3783.1	3795.5	3783.1	3783.1	3757.7	3732.6	3688.7	3650.9	3625.8
47.5°	2884.2	2884.2	2884.2	2890.7	2884.2	2884.2	2884.2	2840.3	2827.9	2802.8	2771.2
50°	2193.1	2199.3	2205.8	2212.0	2205.8	2199.3	2193.1	2180.4	2174.2	2161.6	2155.4
52.5°	1684.1	1690.3	1677.9	1690.3	1677.9	1690.3	1684.1	1690.3	1671.4	1671.4	1665.2
55°	1275.7	1269.5	1275.7	1281.9	1275.7	1269.5	1275.7	1275.7	1269.5	1269.5	1269.5
57.5°	936.3	923.7	923.7	923.7	923.7	923.7	936.3	930.1	949.0	936.3	942.5
60°	697.6	703.8	703.8	710.0	703.8	703.8	697.6	710.0	710.0	716.5	716.5
62.5°	515.2	534.1	521.4	534.1	521.4	534.1	515.2	521.4	521.4	527.9	534.1
65°	333.1	333.1	333.1	339.4	333.1	333.1	333.1	339.4	345.6	339.4	358.2
67.5°	226.3	232.5	245.2	238.7	245.2	232.5	226.3	232.5	232.5	251.4	245.2
70°	182.4	163.5	163.5	182.4	163.5	163.5	182.4	169.7	163.5	175.9	169.7
72.5°	106.8	94.1	106.8	106.8	106.8	94.1	106.8	94.1	100.6	100.6	113.0
75°	56.6	50.2	44.0	62.9	44.0	50.2	56.6	56.6	56.6	56.6	62.9
77.5°	37.8	31.3	44.0	44.0	44.0	31.3	37.8	31.3	37.8	31.3	37.8
80°	18.9	25.1	18.9	31.3	18.9	25.1	18.9	31.3	18.9	25.1	25.1
82.5°	6.2	12.7	12.7	12.7	12.7	12.7	6.2	6.2	12.7	12.7	6.2
85°	0.0	12.7	6.2	6.2	6.2	12.7	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	0.0	0.0	6.2	0.0	0.0	6.2	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: P249018

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5
2.5°	13001.5	12982.6	12989.0	12951.3	12951.3	12938.6	12945.1	12913.5	12901.1	12888.4	12907.3
5°	13190.0	13158.7	13133.4	13077.0	13045.4	13007.9	12989.0	12938.6	12894.6	12856.9	12850.7
7.5°	13340.8	13271.7	13227.8	13152.2	13095.9	13051.9	12989.0	12919.7	12863.3	12812.9	12775.4
10°	13403.7	13334.6	13265.5	13171.1	13108.3	13026.5	12963.7	12875.7	12800.5	12731.4	12687.2
12.5°	13409.9	13321.9	13259.1	13152.2	13070.5	12982.6	12913.5	12812.9	12725.0	12655.9	12586.8
15°	13353.5	13271.7	13196.2	13083.2	13001.5	12919.7	12838.2	12731.4	12649.7	12568.0	12517.8
17.5°	13227.8	13152.2	13064.3	12957.5	12882.2	12806.7	12718.7	12630.8	12536.4	12448.5	12385.6
20°	13064.3	12982.6	12907.3	12800.5	12737.6	12655.9	12574.2	12480.0	12404.5	12316.5	12247.5
22.5°	12819.4	12743.8	12674.8	12611.9	12511.3	12448.5	12392.1	12285.2	12209.7	12128.0	12052.7
25°	12467.3	12392.1	12335.4	12259.9	12215.9	12146.9	12090.2	11996.1	11927.0	11851.5	11788.6
27.5°	11889.2	11845.3	11813.7	11769.7	11732.2	11700.7	11669.4	11593.9	11543.7	11474.6	11411.8
30°	11022.0	11015.8	10996.9	10978.0	11003.1	11003.1	11003.1	10990.7	10946.7	10896.3	10852.3
32.5°	9909.8	9922.4	9947.5	9966.4	10016.6	10073.2	10123.4	10148.5	10148.5	10117.2	10098.3
35°	8583.9	8602.8	8640.6	8690.7	8753.6	8822.7	8935.7	8961.0	8979.7	8979.7	8954.6
37.5°	7207.6	7201.4	7239.2	7283.2	7320.9	7371.1	7452.8	7471.7	7503.0	7490.6	7465.2
40°	5869.1	5837.8	5825.1	5837.8	5881.8	5862.9	5881.8	5869.1	5869.1	5825.1	5825.1
42.5°	4631.2	4593.7	4568.3	4549.7	4549.7	4505.5	4474.2	4442.9	4424.0	4392.4	4386.2
45°	3569.4	3525.2	3493.9	3481.2	3462.6	3405.9	3368.2	3330.4	3286.4	3274.0	3280.2
47.5°	2771.2	2727.2	2714.6	2683.3	2651.7	2620.4	2595.3	2551.4	2544.9	2519.8	2544.9
50°	2136.5	2124.1	2105.2	2092.5	2073.6	2048.5	2023.4	1998.4	1985.7	1985.7	1991.9
52.5°	1659.0	1665.2	1646.3	1627.4	1615.0	1615.0	1583.5	1577.3	1577.3	1552.2	1577.3
55°	1269.5	1263.0	1269.5	1256.8	1256.8	1237.9	1237.9	1219.0	1219.0	1200.2	1212.8
57.5°	930.1	942.5	930.1	936.3	949.0	930.1	923.7	904.8	917.4	904.8	911.2
60°	722.7	722.7	722.7	716.5	716.5	710.0	710.0	703.8	703.8	691.1	703.8
62.5°	534.1	540.3	540.3	540.3	546.8	540.3	534.1	540.3	534.1	534.1	540.3
65°	352.0	358.2	358.2	352.0	364.4	352.0	358.2	364.4	370.6	364.4	370.6
67.5°	238.7	238.7	245.2	251.4	245.2	251.4	257.6	251.4	257.6	270.3	257.6
70°	175.9	182.4	182.4	175.9	169.7	175.9	169.7	188.6	188.6	188.6	201.0
72.5°	113.0	113.0	106.8	106.8	106.8	106.8	106.8	125.7	113.0	106.8	119.5
75°	62.9	69.1	69.1	50.2	56.6	69.1	50.2	56.6	75.5	62.9	75.5
77.5°	37.8	37.8	37.8	37.8	37.8	37.8	50.2	44.0	44.0	44.0	50.2
80°	31.3	25.1	25.1	18.9	25.1	25.1	25.1	37.8	31.3	31.3	37.8
82.5°	12.7	12.7	6.2	0.0	12.7	12.7	12.7	12.7	12.7	12.7	25.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	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: P249018

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5
2.5°	12856.9	12856.9	12850.7	12838.2	12812.9	12812.9	12806.7	12787.8	12775.4	12768.9	12768.9
5°	12794.0	12768.9	12743.8	12674.8	12674.8	12662.1	12624.6	12599.2	12586.8	12555.3	12542.9
7.5°	12737.6	12662.1	12618.1	12574.2	12517.8	12492.4	12448.5	12429.6	12385.6	12354.3	12335.4
10°	12599.2	12549.1	12492.4	12423.4	12379.4	12329.2	12278.8	12241.3	12184.6	12153.1	12128.0
12.5°	12505.1	12429.6	12379.4	12303.9	12228.6	12184.6	12115.6	12071.6	12015.0	11952.1	11914.3
15°	12417.2	12335.4	12266.4	12184.6	12102.9	12052.7	11971.0	11920.8	11839.1	11776.2	11732.2
17.5°	12285.2	12215.9	12140.7	12040.0	11964.8	11901.9	11813.7	11751.1	11675.6	11593.9	11549.9
20°	12146.9	12065.1	11989.9	11889.2	11813.7	11738.5	11650.5	11581.4	11493.2	11418.0	11367.8
22.5°	11964.8	11870.4	11807.5	11706.9	11619.0	11537.5	11455.7	11374.0	11292.3	11229.4	11172.8
25°	11700.7	11600.1	11531.0	11449.3	11367.8	11304.9	11204.3	11154.2	11072.4	11015.8	10959.1
27.5°	11323.6	11248.3	11185.5	11103.7	11034.7	10984.5	10909.0	10858.8	10789.5	10739.3	10695.3
30°	10770.8	10708.0	10651.3	10569.6	10519.4	10475.4	10406.1	10362.2	10312.0	10255.3	10242.9
32.5°	10029.3	9978.8	9922.4	9865.8	9828.0	9803.0	9746.3	9721.2	9671.0	9639.5	9608.2
35°	8910.6	8866.6	8835.3	8810.2	8797.6	8803.8	8791.4	8816.4	8828.9	8822.7	8828.9
37.5°	7446.6	7421.3	7433.9	7452.8	7515.7	7597.4	7672.7	7785.7	7861.2	7936.8	8005.8
40°	5812.7	5831.6	5881.8	5994.8	6158.3	6340.6	6510.3	6723.9	6937.6	7088.4	7226.5
42.5°	4386.2	4442.9	4568.3	4731.8	4977.0	5247.0	5511.1	5825.1	6083.0	6334.2	6510.3
45°	3299.1	3374.4	3537.9	3764.2	4034.2	4348.5	4681.6	5033.4	5341.4	5599.1	5793.8
47.5°	2570.2	2639.3	2802.8	3041.5	3374.4	3701.3	4046.9	4411.3	4731.8	4983.2	5152.9
50°	2029.7	2117.6	2262.2	2513.6	2846.7	3192.3	3550.5	3908.5	4210.4	4424.0	4574.8
52.5°	1596.1	1677.9	1816.0	2080.1	2419.4	2765.0	3097.9	3449.9	3713.7	3921.2	4021.8
55°	1237.9	1313.4	1457.8	1677.9	1998.4	2337.7	2670.6	2972.4	3217.4	3368.2	3462.6
57.5°	942.5	999.2	1099.8	1319.6	1608.8	1922.8	2205.8	2507.4	2695.9	2802.8	2865.4
60°	716.5	760.4	867.3	1036.9	1300.8	1571.1	1809.8	2036.1	2186.9	2274.9	2337.7
62.5°	540.3	590.8	666.0	810.6	1011.6	1231.7	1432.7	1602.4	1728.1	1784.7	1828.7
65°	370.6	408.4	465.1	578.1	747.8	904.8	1062.0	1187.7	1269.5	1332.3	1357.4
67.5°	276.5	301.6	333.1	421.1	540.3	666.0	772.9	860.8	949.0	974.1	1018.1
70°	207.4	226.3	257.6	320.5	389.5	477.5	565.7	615.9	678.7	722.7	735.4
72.5°	131.9	138.1	169.7	207.4	263.8	320.5	377.1	421.1	458.9	483.9	496.4
75°	75.5	113.0	113.0	150.8	188.6	213.6	251.4	282.7	301.6	320.5	320.5
77.5°	50.2	69.1	75.5	94.1	113.0	144.6	175.9	194.8	213.6	219.9	219.9
80°	44.0	50.2	50.2	69.1	81.7	106.8	125.7	131.9	144.6	150.8	163.5
82.5°	18.9	25.1	31.3	50.2	56.6	56.6	75.5	81.7	94.1	100.6	100.6
85°	6.2	12.7	12.7	18.9	31.3	37.8	44.0	50.2	56.6	56.6	62.9
87.5°	6.2	6.2	0.0	6.2	12.7	12.7	25.1	25.1	25.1	37.8	37.8
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: P249018

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5	12869.5
2.5°	12756.5	12762.7	12737.6	12731.4	12718.7	12725.0	12737.6
5°	12524.0	12530.2	12505.1	12480.0	12480.0	12473.5	12480.0
7.5°	12303.9	12310.3	12272.6	12259.9	12234.8	12241.3	12241.3
10°	12084.0	12084.0	12027.6	12021.2	12002.3	11996.1	11996.1
12.5°	11870.4	11851.5	11807.5	11782.4	11795.1	11757.3	11757.3
15°	11681.8	11650.5	11593.9	11575.0	11543.7	11531.0	11531.0
17.5°	11487.0	11462.0	11411.8	11374.0	11336.2	11330.0	11336.2
20°	11298.5	11273.4	11210.5	11185.5	11154.2	11154.2	11141.5
22.5°	11109.9	11084.8	11028.4	11009.6	10965.6	10965.6	10971.8
25°	10915.2	10896.3	10833.4	10821.0	10814.8	10789.5	10802.1
27.5°	10651.3	10638.7	10588.5	10569.6	10544.5	10538.3	10550.7
30°	10167.4	10148.5	10111.0	10092.1	10048.2	10054.4	10066.8
32.5°	9564.2	9539.1	9488.7	9469.8	9432.3	9419.6	9425.8
35°	8810.2	8791.4	8747.4	8747.4	8709.6	8697.0	8709.6
37.5°	8043.6	8062.2	8043.6	8062.2	8043.6	8037.1	8043.6
40°	7320.9	7390.0	7402.4	7471.7	7446.6	7484.1	7477.9
42.5°	6629.5	6742.6	6786.8	6843.2	6830.8	6855.9	6874.7
45°	5931.9	6026.4	6070.3	6108.1	6114.3	6127.0	6133.2
47.5°	5272.1	5347.7	5353.9	5397.8	5391.6	5391.6	5410.5
50°	4656.5	4706.7	4719.1	4750.7	4725.6	4712.9	4719.1
52.5°	4084.6	4134.8	4122.2	4134.8	4103.5	4090.9	4097.1
55°	3500.1	3525.2	3525.2	3525.2	3487.7	3487.7	3487.7
57.5°	2903.1	2909.6	2896.9	2903.1	2896.9	2859.2	2852.9
60°	2356.6	2356.6	2350.1	2356.6	2337.7	2318.8	2318.8
62.5°	1841.1	1853.8	1878.9	1853.8	1841.1	1853.8	1834.9
65°	1376.3	1401.4	1394.9	1407.6	1401.4	1401.4	1388.7
67.5°	1036.9	1043.1	1049.4	1055.8	1055.8	1055.8	1055.8
70°	760.4	779.3	772.9	772.9	772.9	772.9	810.6
72.5°	509.0	534.1	527.9	540.3	540.3	553.0	540.3
75°	345.6	370.6	358.2	377.1	370.6	358.2	389.5
77.5°	232.5	245.2	251.4	257.6	251.4	245.2	251.4
80°	163.5	175.9	169.7	175.9	175.9	175.9	182.4
82.5°	100.6	119.5	113.0	119.5	113.0	119.5	119.5
85°	69.1	75.5	62.9	75.5	69.1	69.1	81.7
87.5°	44.0	37.8	37.8	44.0	37.8	44.0	37.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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