

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: P248667

Luminaire Tested: **LD8B200D010 ER8B200830 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248667
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 ER8B200830 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20617.0 lumens
Efficiency: N/A
Efficacy: 92.3 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

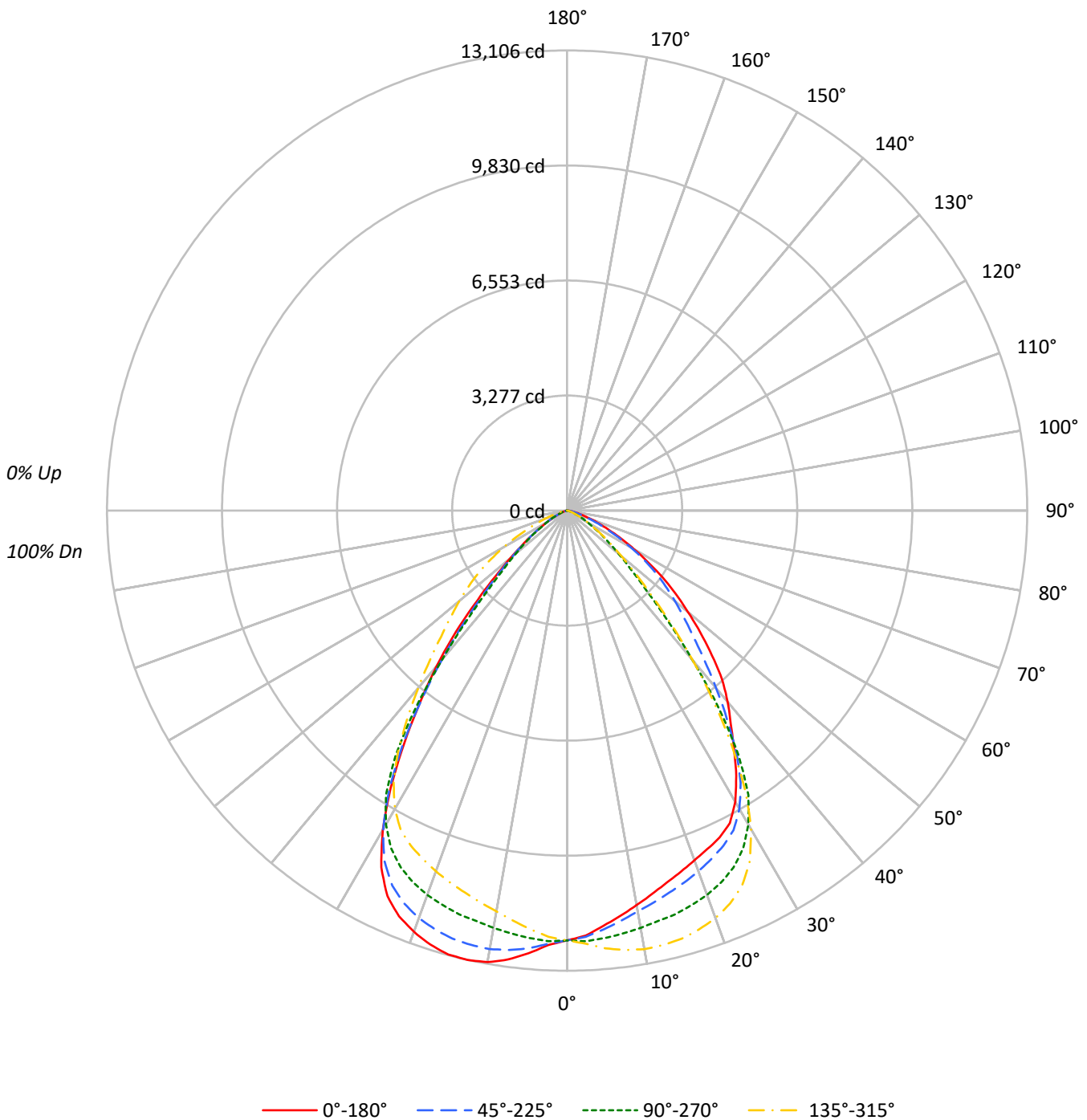
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	377427	377427	377427	377427
5°	367400	378312	391820	378312
10°	357236	377817	408882	377817
15°	350099	380060	417832	380060
20°	347718	382233	418907	382233
25°	349543	381468	412175	381468
30°	340902	367504	374105	367504
35°	311818	320589	304173	320589
40°	286282	223007	232881	223007
45°	254372	136047	157416	136047
50°	215311	90880	100920	90880
55°	178327	62014	65541	62014
60°	136007	41277	41648	41277
65°	96365	25720	23546	25720
70°	69504	17229	15634	17229
75°	44142	8554	7125	8554
80°	30792	6375	5292	6375
85°	27491	0	2087	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1165.0	5.7
10°-20°	3373.6	16.4
20°-30°	5108.3	24.8
30°-40°	5119.8	24.8
40°-50°	3215.0	15.6
50°-60°	1713.3	8.3
60°-70°	704.5	3.4
70°-80°	186.1	0.9
80°-90°	31.5	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°	9646.9	46.8
0°-40°	14766.7	71.6
0°-60°	19694.9	95.5
0°-90°	20617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20617.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12240	12240	12240	12240	12240	
5°	11869	12222	12658	12222	11869	###
15°	10967	11905	13088	11905	10967	3102
25°	10273	11212	12114	11212	10273	4712
35°	8283	8516	8080	8516	8283	5189
45°	5833	3120	3610	3120	5833	4486
55°	3317	1154	1219	1154	3317	2957
65°	1321	352	323	352	1321	1370
75°	370	72	60	72	370	420
85°	78	0	6	0	78	85
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°	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7
2.5°	12114.2	12102.1	12096.2	12108.3	12114.2	12138.1	12132.2	12144.0	12144.0	12150.1	12161.9
5°	11869.2	11863.0	11869.2	11869.2	11893.1	11916.9	11911.0	11929.0	11940.8	11970.8	11982.6
7.5°	11642.1	11642.1	11636.0	11659.9	11671.9	11707.8	11701.7	11731.7	11749.6	11779.4	11821.2
10°	11408.9	11408.9	11414.8	11432.8	11439.0	11492.6	11492.6	11534.4	11558.3	11588.3	11642.1
12.5°	11181.9	11181.9	11217.8	11205.7	11229.6	11271.4	11289.4	11331.2	11367.1	11426.9	11480.8
15°	10966.6	10966.6	10978.7	11008.5	11026.4	11080.3	11110.1	11158.0	11199.8	11259.6	11337.4
17.5°	10781.4	10775.5	10781.4	10817.3	10853.2	10901.0	10924.8	10984.6	11026.4	11104.2	11176.0
20°	10596.2	10608.2	10608.2	10638.0	10661.9	10721.6	10745.5	10811.4	10859.1	10930.7	11014.6
22.5°	10434.8	10428.9	10428.9	10470.7	10488.7	10542.3	10566.2	10625.9	10679.8	10739.6	10817.3
25°	10273.4	10261.4	10285.5	10291.4	10303.2	10363.0	10380.9	10422.8	10476.6	10530.5	10608.2
27.5°	10034.3	10022.5	10028.4	10052.3	10070.2	10118.0	10130.0	10171.8	10213.7	10261.4	10327.3
30°	9574.1	9562.3	9556.4	9598.2	9616.1	9651.8	9669.8	9741.6	9753.4	9807.3	9855.0
32.5°	8964.5	8958.6	8970.7	9006.3	9024.3	9072.2	9096.1	9137.9	9167.7	9197.7	9245.4
35°	8283.3	8271.3	8283.3	8319.3	8319.3	8361.1	8379.0	8396.7	8390.8	8396.7	8384.9
37.5°	7649.9	7643.8	7649.9	7667.6	7649.9	7667.6	7649.9	7614.0	7548.3	7476.5	7404.7
40°	7111.9	7117.8	7082.2	7106.0	7040.1	7028.3	6962.6	6872.8	6741.5	6598.0	6394.9
42.5°	6538.3	6520.3	6496.4	6508.3	6454.6	6412.6	6305.1	6191.7	6024.1	5785.3	5540.0
45°	5833.0	5827.1	5815.0	5809.1	5773.2	5731.4	5641.6	5510.3	5325.0	5080.0	4787.0
47.5°	5145.7	5127.7	5127.7	5133.6	5091.8	5085.9	5014.1	4900.7	4739.3	4500.2	4195.4
50°	4488.2	4482.3	4494.3	4518.2	4488.2	4476.3	4428.6	4350.9	4207.5	4004.3	3717.2
52.5°	3896.5	3890.6	3902.7	3932.5	3920.4	3932.5	3884.7	3825.0	3729.3	3532.0	3281.1
55°	3317.0	3317.0	3317.0	3352.6	3352.6	3352.6	3328.8	3293.1	3203.3	3059.9	2827.0
57.5°	2713.3	2719.2	2755.1	2761.0	2755.1	2767.2	2761.0	2725.1	2665.6	2564.0	2384.7
60°	2205.3	2205.3	2223.3	2241.2	2235.1	2241.2	2241.2	2223.3	2163.5	2079.9	1936.5
62.5°	1745.1	1763.0	1751.0	1763.0	1786.9	1763.0	1751.0	1739.2	1697.4	1643.5	1523.9
65°	1320.7	1332.8	1332.8	1338.7	1326.6	1332.8	1308.9	1291.0	1267.1	1207.3	1129.6
67.5°	1004.1	1004.1	1004.1	1004.1	998.0	992.1	986.2	968.2	926.4	902.6	818.7
70°	770.9	735.0	735.0	735.0	735.0	741.2	723.2	699.4	687.3	645.5	585.7
72.5°	513.9	525.9	513.9	513.9	502.1	508.0	484.1	472.1	460.3	436.4	400.5
75°	370.5	340.7	352.5	358.7	340.7	352.5	328.6	304.8	304.8	286.8	268.9
77.5°	239.1	233.2	239.1	245.0	239.1	233.2	221.1	209.1	209.1	203.2	185.2
80°	173.4	167.3	167.3	167.3	161.4	167.3	155.5	155.5	143.4	137.5	125.5
82.5°	113.6	113.6	107.5	113.6	107.5	113.6	95.7	95.7	95.7	89.5	77.7
85°	77.7	65.7	65.7	71.8	59.8	71.8	65.7	59.8	53.9	53.9	47.7
87.5°	35.9	41.8	35.9	41.8	35.9	35.9	41.8	35.9	35.9	23.9	23.9
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°	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7
2.5°	12179.9	12185.8	12185.8	12209.9	12221.7	12227.6	12227.6	12275.6	12257.6	12269.7	12281.5
5°	12006.7	12042.4	12054.4	12054.4	12120.1	12144.0	12167.8	12221.7	12227.6	12263.5	12305.3
7.5°	11839.2	11881.0	11905.1	11958.7	12000.6	12042.4	12114.2	12150.1	12185.8	12233.8	12287.4
10°	11677.8	11725.8	11773.5	11815.3	11881.0	11934.9	11982.6	12066.2	12108.3	12174.0	12245.6
12.5°	11522.6	11588.3	11630.1	11701.7	11773.5	11821.2	11893.1	11970.8	12036.5	12102.1	12185.8
15°	11385.1	11462.8	11510.5	11588.3	11666.0	11731.7	11809.4	11905.1	11952.8	12030.6	12108.3
17.5°	11235.5	11319.4	11379.2	11450.8	11546.4	11618.0	11684.0	11779.4	11839.2	11922.8	12012.6
20°	11080.3	11163.9	11235.5	11307.3	11403.0	11474.6	11552.4	11648.0	11713.7	11797.4	11869.2
22.5°	10895.1	10972.8	11050.3	11133.9	11229.6	11289.4	11379.2	11462.8	11534.4	11612.1	11684.0
25°	10656.0	10751.6	10811.4	10888.9	10966.6	11032.3	11128.0	11211.7	11271.4	11343.3	11408.9
27.5°	10375.0	10446.9	10494.6	10560.3	10638.0	10697.8	10769.4	10853.2	10913.0	10978.7	11026.4
30°	9896.8	9962.7	10004.6	10052.3	10130.0	10183.9	10243.7	10321.2	10363.0	10410.9	10452.8
32.5°	9269.3	9323.2	9347.0	9382.9	9436.8	9490.4	9538.4	9604.1	9622.0	9651.8	9651.8
35°	8361.1	8372.9	8367.0	8379.0	8402.9	8432.7	8474.5	8516.3	8540.2	8540.2	8522.4
37.5°	7297.2	7225.6	7147.8	7088.1	7070.1	7058.0	7082.2	7099.9	7124.0	7135.8	7106.0
40°	6191.7	6030.3	5856.9	5701.4	5593.9	5546.2	5528.2	5540.0	5540.0	5581.8	5581.8
42.5°	5241.4	4990.2	4733.4	4500.2	4344.7	4225.4	4171.6	4171.6	4177.5	4207.5	4225.4
45°	4452.5	4135.6	3836.8	3579.9	3364.7	3209.2	3137.6	3119.7	3113.8	3125.6	3167.4
47.5°	3848.8	3520.2	3209.2	2892.6	2665.6	2510.1	2444.4	2420.3	2396.5	2420.3	2426.5
50°	3376.8	3036.1	2707.4	2390.6	2151.5	2014.0	1930.3	1894.4	1888.5	1888.5	1900.5
52.5°	2946.3	2629.7	2301.0	1978.3	1727.1	1595.8	1518.0	1500.1	1476.2	1500.1	1500.1
55°	2539.9	2223.3	1900.5	1595.8	1386.4	1249.2	1177.3	1153.5	1141.4	1159.4	1159.4
57.5°	2097.8	1828.7	1530.1	1255.1	1046.0	950.3	896.4	866.6	860.5	872.5	860.5
60°	1721.2	1494.2	1237.1	986.2	824.8	723.2	681.4	669.3	657.3	669.3	669.3
62.5°	1362.6	1171.4	962.1	770.9	633.4	561.8	513.9	513.9	508.0	508.0	513.9
65°	1010.0	860.5	711.2	549.8	442.3	388.4	352.5	352.5	346.6	352.5	346.6
67.5°	735.0	633.4	513.9	400.5	316.8	286.8	263.0	245.0	257.1	245.0	239.1
70°	538.0	454.1	370.5	304.8	245.0	215.2	197.3	191.1	179.3	179.3	179.3
72.5°	358.7	304.8	250.9	197.3	161.4	131.4	125.5	113.6	101.6	107.5	119.6
75°	239.1	203.2	179.3	143.4	107.5	107.5	71.8	71.8	59.8	71.8	53.9
77.5°	167.3	137.5	107.5	89.5	71.8	65.7	47.7	47.7	41.8	41.8	41.8
80°	119.6	101.6	77.7	65.7	47.7	47.7	41.8	35.9	29.8	29.8	35.9
82.5°	71.8	53.9	53.9	47.7	29.8	23.9	18.0	23.9	12.1	12.1	12.1
85°	41.8	35.9	29.8	18.0	12.1	12.1	5.9	0.0	5.9	5.9	0.0
87.5°	23.9	12.1	12.1	5.9	0.0	5.9	5.9	0.0	0.0	0.0	12.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7
2.5°	12311.5	12305.3	12317.4	12317.4	12353.3	12347.2	12365.1	12365.1	12353.3	12359.2	12383.1
5°	12353.3	12371.3	12406.9	12436.9	12490.6	12514.7	12544.4	12574.5	12580.4	12598.3	12616.3
7.5°	12353.3	12413.1	12454.9	12508.5	12580.4	12622.2	12687.9	12741.7	12765.6	12795.4	12831.3
10°	12329.2	12389.0	12466.7	12526.5	12616.3	12682.0	12747.6	12831.3	12867.2	12914.9	12962.9
12.5°	12281.5	12347.2	12430.8	12508.5	12610.1	12669.9	12753.5	12831.3	12885.1	12950.8	13004.7
15°	12209.9	12287.4	12365.1	12442.9	12550.3	12622.2	12699.9	12789.5	12843.3	12914.9	12962.9
17.5°	12096.2	12179.9	12251.7	12323.3	12424.9	12508.5	12580.4	12664.0	12717.9	12777.6	12843.3
20°	11958.7	12036.5	12114.2	12174.0	12275.6	12347.2	12424.9	12502.6	12544.4	12556.5	12658.1
22.5°	11785.6	11839.2	11899.0	11994.7	12054.4	12120.1	12191.9	12263.5	12305.3	12371.3	12406.9
25°	11498.5	11552.4	11618.0	11659.9	11731.7	11785.6	11857.1	11934.9	11958.7	12006.7	12042.4
27.5°	11098.2	11128.0	11158.0	11193.7	11235.5	11265.5	11307.3	11343.3	11367.1	11391.0	11414.8
30°	10464.6	10464.6	10464.6	10440.7	10458.7	10476.6	10482.5	10476.6	10476.6	10470.7	10470.7
32.5°	9627.9	9580.2	9526.4	9478.6	9460.7	9436.8	9424.8	9406.8	9377.0	9359.1	9365.0
35°	8498.3	8390.8	8325.2	8265.4	8217.7	8181.7	8163.8	8145.8	8139.9	8116.1	8092.0
37.5°	7088.1	7010.3	6962.6	6926.7	6884.9	6849.0	6854.9	6861.0	6878.7	6866.9	6872.8
40°	5593.9	5575.9	5593.9	5552.1	5540.0	5552.1	5581.8	5623.9	5647.8	5671.6	5713.4
42.5°	4255.2	4285.0	4327.0	4327.0	4344.7	4368.8	4404.5	4470.4	4506.1	4547.9	4595.9
45°	3203.3	3239.2	3293.1	3310.8	3322.9	3352.6	3394.7	3448.3	3472.2	3508.1	3549.9
47.5°	2468.3	2492.2	2521.9	2551.9	2581.7	2593.8	2635.6	2635.6	2665.6	2689.4	2701.3
50°	1924.4	1948.3	1972.1	1990.1	2002.1	2020.1	2031.9	2049.9	2055.8	2067.8	2073.7
52.5°	1506.0	1536.0	1536.0	1547.8	1565.7	1583.7	1577.8	1583.7	1589.6	1589.6	1607.6
55°	1177.3	1177.3	1195.3	1195.3	1207.3	1201.2	1207.3	1207.3	1207.3	1207.3	1213.2
57.5°	878.4	884.6	902.6	890.5	884.6	896.4	884.6	896.4	890.5	902.6	884.6
60°	675.3	675.3	681.4	681.4	687.3	687.3	687.3	681.4	681.4	675.3	675.3
62.5°	508.0	513.9	520.0	513.9	513.9	513.9	508.0	508.0	502.1	495.9	495.9
65°	340.7	334.8	346.6	334.8	340.7	340.7	334.8	340.7	322.7	328.6	322.7
67.5°	245.0	239.1	233.2	239.1	233.2	227.1	227.1	233.2	239.1	221.1	221.1
70°	161.4	167.3	161.4	167.3	173.4	173.4	167.3	161.4	167.3	155.5	161.4
72.5°	101.6	101.6	101.6	101.6	101.6	107.5	107.5	107.5	95.7	95.7	89.5
75°	47.7	65.7	53.9	47.7	65.7	65.7	59.8	59.8	53.9	53.9	53.9
77.5°	47.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	29.8	35.9	29.8
80°	23.9	23.9	23.9	18.0	23.9	23.9	29.8	23.9	23.9	18.0	29.8
82.5°	12.1	12.1	12.1	0.0	5.9	12.1	12.1	5.9	12.1	12.1	5.9
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: P248667

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7
2.5°	12377.2	12371.3	12377.2	12383.1	12377.2	12371.3	12377.2	12383.1	12359.2	12353.3	12365.1
5°	12640.1	12640.1	12651.9	12658.1	12651.9	12640.1	12640.1	12616.3	12598.3	12580.4	12574.5
7.5°	12867.2	12879.2	12891.1	12897.0	12891.1	12879.2	12867.2	12831.3	12795.4	12765.6	12741.7
10°	13004.7	13022.7	13046.5	13058.3	13046.5	13022.7	13004.7	12962.9	12914.9	12867.2	12831.3
12.5°	13064.5	13082.4	13112.2	13106.3	13112.2	13082.4	13064.5	13004.7	12950.8	12885.1	12831.3
15°	13022.7	13046.5	13076.3	13088.3	13076.3	13046.5	13022.7	12962.9	12914.9	12843.3	12789.5
17.5°	12891.1	12927.0	12944.9	12962.9	12944.9	12927.0	12891.1	12843.3	12777.6	12717.9	12664.0
20°	12711.7	12735.8	12759.7	12765.6	12759.7	12735.8	12711.7	12658.1	12556.5	12544.4	12502.6
22.5°	12454.9	12472.9	12526.5	12508.5	12526.5	12472.9	12454.9	12406.9	12371.3	12305.3	12263.5
25°	12084.2	12102.1	12108.3	12114.2	12108.3	12102.1	12084.2	12042.4	12006.7	11958.7	11934.9
27.5°	11444.9	11444.9	11456.7	11462.8	11456.7	11444.9	11444.9	11414.8	11391.0	11367.1	11343.3
30°	10476.6	10476.6	10476.6	10506.6	10476.6	10476.6	10476.6	10470.7	10470.7	10476.6	10476.6
32.5°	9359.1	9347.0	9335.2	9347.0	9335.2	9347.0	9359.1	9365.0	9359.1	9377.0	9406.8
35°	8092.0	8086.1	8104.0	8080.2	8104.0	8086.1	8092.0	8092.0	8116.1	8139.9	8145.8
37.5°	6878.7	6866.9	6890.8	6866.9	6890.8	6866.9	6878.7	6872.8	6866.9	6878.7	6861.0
40°	5725.5	5737.3	5737.3	5785.3	5737.3	5737.3	5725.5	5713.4	5671.6	5647.8	5623.9
42.5°	4619.8	4655.7	4643.6	4679.5	4643.6	4655.7	4619.8	4595.9	4547.9	4506.1	4470.4
45°	3573.8	3597.9	3597.9	3609.7	3597.9	3597.9	3573.8	3549.9	3508.1	3472.2	3448.3
47.5°	2743.1	2743.1	2743.1	2749.2	2743.1	2743.1	2743.1	2701.3	2689.4	2665.6	2635.6
50°	2085.8	2091.7	2097.8	2103.7	2097.8	2091.7	2085.8	2073.7	2067.8	2055.8	2049.9
52.5°	1601.7	1607.6	1595.8	1607.6	1595.8	1607.6	1601.7	1607.6	1589.6	1589.6	1583.7
55°	1213.2	1207.3	1213.2	1219.1	1213.2	1207.3	1213.2	1213.2	1207.3	1207.3	1207.3
57.5°	890.5	878.4	878.4	878.4	878.4	878.4	890.5	884.6	902.6	890.5	896.4
60°	663.4	669.3	669.3	675.3	669.3	669.3	663.4	675.3	675.3	681.4	681.4
62.5°	490.0	508.0	495.9	508.0	495.9	508.0	490.0	495.9	495.9	502.1	508.0
65°	316.8	316.8	316.8	322.7	316.8	316.8	316.8	322.7	328.6	322.7	340.7
67.5°	215.2	221.1	233.2	227.1	233.2	221.1	215.2	221.1	221.1	239.1	233.2
70°	173.4	155.5	155.5	173.4	155.5	155.5	173.4	161.4	155.5	167.3	161.4
72.5°	101.6	89.5	101.6	101.6	101.6	89.5	101.6	89.5	95.7	95.7	107.5
75°	53.9	47.7	41.8	59.8	41.8	47.7	53.9	53.9	53.9	53.9	59.8
77.5°	35.9	29.8	41.8	41.8	41.8	29.8	35.9	29.8	35.9	29.8	35.9
80°	18.0	23.9	18.0	29.8	18.0	23.9	18.0	29.8	18.0	23.9	23.9
82.5°	5.9	12.1	12.1	12.1	12.1	12.1	5.9	5.9	12.1	12.1	5.9
85°	0.0	12.1	5.9	5.9	5.9	12.1	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	0.0	0.0	5.9	0.0	0.0	5.9	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: P248667

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7
2.5°	12365.1	12347.2	12353.3	12317.4	12317.4	12305.3	12311.5	12281.5	12269.7	12257.6	12275.6
5°	12544.4	12514.7	12490.6	12436.9	12406.9	12371.3	12353.3	12305.3	12263.5	12227.6	12221.7
7.5°	12687.9	12622.2	12580.4	12508.5	12454.9	12413.1	12353.3	12287.4	12233.8	12185.8	12150.1
10°	12747.6	12682.0	12616.3	12526.5	12466.7	12389.0	12329.2	12245.6	12174.0	12108.3	12066.2
12.5°	12753.5	12669.9	12610.1	12508.5	12430.8	12347.2	12281.5	12185.8	12102.1	12036.5	11970.8
15°	12699.9	12622.2	12550.3	12442.9	12365.1	12287.4	12209.9	12108.3	12030.6	11952.8	11905.1
17.5°	12580.4	12508.5	12424.9	12323.3	12251.7	12179.9	12096.2	12012.6	11922.8	11839.2	11779.4
20°	12424.9	12347.2	12275.6	12174.0	12114.2	12036.5	11958.7	11869.2	11797.4	11713.7	11648.0
22.5°	12191.9	12120.1	12054.4	11994.7	11899.0	11839.2	11785.6	11684.0	11612.1	11534.4	11462.8
25°	11857.1	11785.6	11731.7	11659.9	11618.0	11552.4	11498.5	11408.9	11343.3	11271.4	11211.7
27.5°	11307.3	11265.5	11235.5	11193.7	11158.0	11128.0	11098.2	11026.4	10978.7	10913.0	10853.2
30°	10482.5	10476.6	10458.7	10440.7	10464.6	10464.6	10464.6	10452.8	10410.9	10363.0	10321.2
32.5°	9424.8	9436.8	9460.7	9478.6	9526.4	9580.2	9627.9	9651.8	9651.8	9622.0	9604.1
35°	8163.8	8181.7	8217.7	8265.4	8325.2	8390.8	8498.3	8522.4	8540.2	8540.2	8516.3
37.5°	6854.9	6849.0	6884.9	6926.7	6962.6	7010.3	7088.1	7106.0	7135.8	7124.0	7099.9
40°	5581.8	5552.1	5540.0	5552.1	5593.9	5575.9	5593.9	5581.8	5581.8	5540.0	5540.0
42.5°	4404.5	4368.8	4344.7	4327.0	4327.0	4285.0	4255.2	4225.4	4207.5	4177.5	4171.6
45°	3394.7	3352.6	3322.9	3310.8	3293.1	3239.2	3203.3	3167.4	3125.6	3113.8	3119.7
47.5°	2635.6	2593.8	2581.7	2551.9	2521.9	2492.2	2468.3	2426.5	2420.3	2396.5	2420.3
50°	2031.9	2020.1	2002.1	1990.1	1972.1	1948.3	1924.4	1900.5	1888.5	1888.5	1894.4
52.5°	1577.8	1583.7	1565.7	1547.8	1536.0	1536.0	1506.0	1500.1	1500.1	1476.2	1500.1
55°	1207.3	1201.2	1207.3	1195.3	1195.3	1177.3	1177.3	1159.4	1159.4	1141.4	1153.5
57.5°	884.6	896.4	884.6	890.5	902.6	884.6	878.4	860.5	872.5	860.5	866.6
60°	687.3	687.3	687.3	681.4	681.4	675.3	675.3	669.3	669.3	657.3	669.3
62.5°	508.0	513.9	513.9	513.9	520.0	513.9	508.0	513.9	508.0	508.0	513.9
65°	334.8	340.7	340.7	334.8	346.6	334.8	340.7	346.6	352.5	346.6	352.5
67.5°	227.1	227.1	233.2	239.1	233.2	239.1	245.0	239.1	245.0	257.1	245.0
70°	167.3	173.4	173.4	167.3	161.4	167.3	161.4	179.3	179.3	179.3	191.1
72.5°	107.5	107.5	101.6	101.6	101.6	101.6	101.6	119.6	107.5	101.6	113.6
75°	59.8	65.7	65.7	47.7	53.9	65.7	47.7	53.9	71.8	59.8	71.8
77.5°	35.9	35.9	35.9	35.9	35.9	35.9	47.7	41.8	41.8	41.8	47.7
80°	29.8	23.9	23.9	18.0	23.9	23.9	23.9	35.9	29.8	29.8	35.9
82.5°	12.1	12.1	5.9	0.0	12.1	12.1	12.1	12.1	12.1	12.1	23.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	5.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	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: P248667

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7
2.5°	12227.6	12227.6	12221.7	12209.9	12185.8	12185.8	12179.9	12161.9	12150.1	12144.0	12144.0
5°	12167.8	12144.0	12120.1	12054.4	12054.4	12042.4	12006.7	11982.6	11970.8	11940.8	11929.0
7.5°	12114.2	12042.4	12000.6	11958.7	11905.1	11881.0	11839.2	11821.2	11779.4	11749.6	11731.7
10°	11982.6	11934.9	11881.0	11815.3	11773.5	11725.8	11677.8	11642.1	11588.3	11558.3	11534.4
12.5°	11893.1	11821.2	11773.5	11701.7	11630.1	11588.3	11522.6	11480.8	11426.9	11367.1	11331.2
15°	11809.4	11731.7	11666.0	11588.3	11510.5	11462.8	11385.1	11337.4	11259.6	11199.8	11158.0
17.5°	11684.0	11618.0	11546.4	11450.8	11379.2	11319.4	11235.5	11176.0	11104.2	11026.4	10984.6
20°	11552.4	11474.6	11403.0	11307.3	11235.5	11163.9	11080.3	11014.6	10930.7	10859.1	10811.4
22.5°	11379.2	11289.4	11229.6	11133.9	11050.3	10972.8	10895.1	10817.3	10739.6	10679.8	10625.9
25°	11128.0	11032.3	10966.6	10888.9	10811.4	10751.6	10656.0	10608.2	10530.5	10476.6	10422.8
27.5°	10769.4	10697.8	10638.0	10560.3	10494.6	10446.9	10375.0	10327.3	10261.4	10213.7	10171.8
30°	10243.7	10183.9	10130.0	10052.3	10004.6	9962.7	9896.8	9855.0	9807.3	9753.4	9741.6
32.5°	9538.4	9490.4	9436.8	9382.9	9347.0	9323.2	9269.3	9245.4	9197.7	9167.7	9137.9
35°	8474.5	8432.7	8402.9	8379.0	8367.0	8372.9	8361.1	8384.9	8396.7	8390.8	8396.7
37.5°	7082.2	7058.0	7070.1	7088.1	7147.8	7225.6	7297.2	7404.7	7476.5	7548.3	7614.0
40°	5528.2	5546.2	5593.9	5701.4	5856.9	6030.3	6191.7	6394.9	6598.0	6741.5	6872.8
42.5°	4171.6	4225.4	4344.7	4500.2	4733.4	4990.2	5241.4	5540.0	5785.3	6024.1	6191.7
45°	3137.6	3209.2	3364.7	3579.9	3836.8	4135.6	4452.5	4787.0	5080.0	5325.0	5510.3
47.5°	2444.4	2510.1	2665.6	2892.6	3209.2	3520.2	3848.8	4195.4	4500.2	4739.3	4900.7
50°	1930.3	2014.0	2151.5	2390.6	2707.4	3036.1	3376.8	3717.2	4004.3	4207.5	4350.9
52.5°	1518.0	1595.8	1727.1	1978.3	2301.0	2629.7	2946.3	3281.1	3532.0	3729.3	3825.0
55°	1177.3	1249.2	1386.4	1595.8	1900.5	2223.3	2539.9	2827.0	3059.9	3203.3	3293.1
57.5°	896.4	950.3	1046.0	1255.1	1530.1	1828.7	2097.8	2384.7	2564.0	2665.6	2725.1
60°	681.4	723.2	824.8	986.2	1237.1	1494.2	1721.2	1936.5	2079.9	2163.5	2223.3
62.5°	513.9	561.8	633.4	770.9	962.1	1171.4	1362.6	1523.9	1643.5	1697.4	1739.2
65°	352.5	388.4	442.3	549.8	711.2	860.5	1010.0	1129.6	1207.3	1267.1	1291.0
67.5°	263.0	286.8	316.8	400.5	513.9	633.4	735.0	818.7	902.6	926.4	968.2
70°	197.3	215.2	245.0	304.8	370.5	454.1	538.0	585.7	645.5	687.3	699.4
72.5°	125.5	131.4	161.4	197.3	250.9	304.8	358.7	400.5	436.4	460.3	472.1
75°	71.8	107.5	107.5	143.4	179.3	203.2	239.1	268.9	286.8	304.8	304.8
77.5°	47.7	65.7	71.8	89.5	107.5	137.5	167.3	185.2	203.2	209.1	209.1
80°	41.8	47.7	47.7	65.7	77.7	101.6	119.6	125.5	137.5	143.4	155.5
82.5°	18.0	23.9	29.8	47.7	53.9	53.9	71.8	77.7	89.5	95.7	95.7
85°	5.9	12.1	12.1	18.0	29.8	35.9	41.8	47.7	53.9	53.9	59.8
87.5°	5.9	5.9	0.0	5.9	12.1	12.1	23.9	23.9	23.9	35.9	35.9
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: P248667

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7	12239.7
2.5°	12132.2	12138.1	12114.2	12108.3	12096.2	12102.1	12114.2
5°	11911.0	11916.9	11893.1	11869.2	11869.2	11863.0	11869.2
7.5°	11701.7	11707.8	11671.9	11659.9	11636.0	11642.1	11642.1
10°	11492.6	11492.6	11439.0	11432.8	11414.8	11408.9	11408.9
12.5°	11289.4	11271.4	11229.6	11205.7	11217.8	11181.9	11181.9
15°	11110.1	11080.3	11026.4	11008.5	10978.7	10966.6	10966.6
17.5°	10924.8	10901.0	10853.2	10817.3	10781.4	10775.5	10781.4
20°	10745.5	10721.6	10661.9	10638.0	10608.2	10608.2	10596.2
22.5°	10566.2	10542.3	10488.7	10470.7	10428.9	10428.9	10434.8
25°	10380.9	10363.0	10303.2	10291.4	10285.5	10261.4	10273.4
27.5°	10130.0	10118.0	10070.2	10052.3	10028.4	10022.5	10034.3
30°	9669.8	9651.8	9616.1	9598.2	9556.4	9562.3	9574.1
32.5°	9096.1	9072.2	9024.3	9006.3	8970.7	8958.6	8964.5
35°	8379.0	8361.1	8319.3	8319.3	8283.3	8271.3	8283.3
37.5°	7649.9	7667.6	7649.9	7667.6	7649.9	7643.8	7649.9
40°	6962.6	7028.3	7040.1	7106.0	7082.2	7117.8	7111.9
42.5°	6305.1	6412.6	6454.6	6508.3	6496.4	6520.3	6538.3
45°	5641.6	5731.4	5773.2	5809.1	5815.0	5827.1	5833.0
47.5°	5014.1	5085.9	5091.8	5133.6	5127.7	5127.7	5145.7
50°	4428.6	4476.3	4488.2	4518.2	4494.3	4482.3	4488.2
52.5°	3884.7	3932.5	3920.4	3932.5	3902.7	3890.6	3896.5
55°	3328.8	3352.6	3352.6	3352.6	3317.0	3317.0	3317.0
57.5°	2761.0	2767.2	2755.1	2761.0	2755.1	2719.2	2713.3
60°	2241.2	2241.2	2235.1	2241.2	2223.3	2205.3	2205.3
62.5°	1751.0	1763.0	1786.9	1763.0	1751.0	1763.0	1745.1
65°	1308.9	1332.8	1326.6	1338.7	1332.8	1332.8	1320.7
67.5°	986.2	992.1	998.0	1004.1	1004.1	1004.1	1004.1
70°	723.2	741.2	735.0	735.0	735.0	735.0	770.9
72.5°	484.1	508.0	502.1	513.9	513.9	525.9	513.9
75°	328.6	352.5	340.7	358.7	352.5	340.7	370.5
77.5°	221.1	233.2	239.1	245.0	239.1	233.2	239.1
80°	155.5	167.3	161.4	167.3	167.3	167.3	173.4
82.5°	95.7	113.6	107.5	113.6	107.5	113.6	113.6
85°	65.7	71.8	59.8	71.8	65.7	65.7	77.7
87.5°	41.8	35.9	35.9	41.8	35.9	41.8	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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