

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: P249000

Luminaire Tested: **LD8B200D010 ER8B200835 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249000
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 ER8B200835 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21402.0 lumens
Efficiency: N/A
Efficacy: 95.8 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

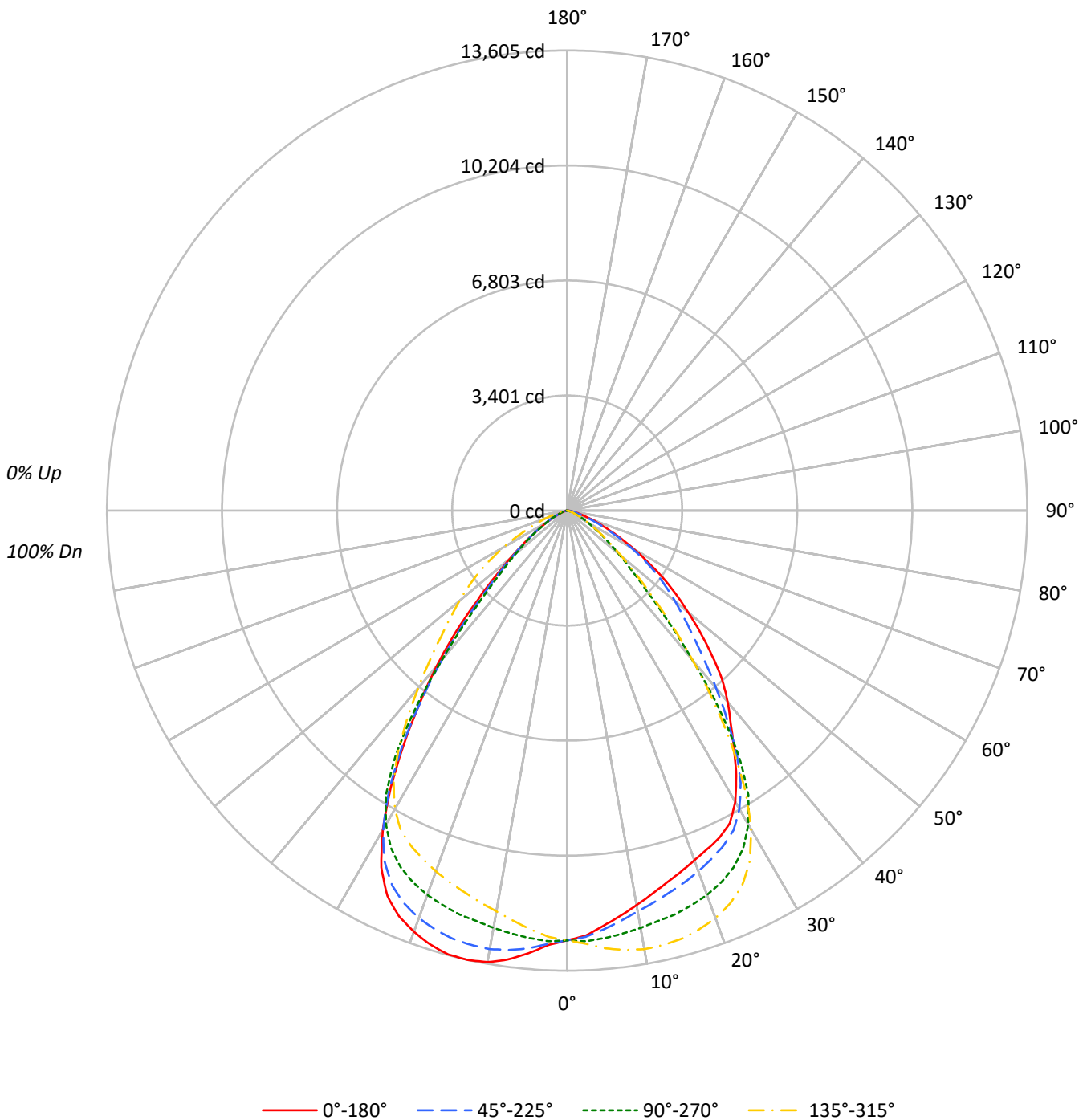
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	391797	391797	391797	391797
5°	381389	392715	406740	392715
10°	370838	392205	424450	392205
15°	363430	394531	433743	394531
20°	360955	396786	434855	396786
25°	362854	395990	427870	395990
30°	353881	381494	388352	381494
35°	323691	332797	315752	332797
40°	297183	231500	241749	231500
45°	264058	141228	163412	141228
50°	223505	94338	104763	94338
55°	185117	64374	68041	64374
60°	141187	42850	43233	42850
65°	100035	26698	24443	26698
70°	72155	17888	16229	17888
75°	45822	8888	7399	8888
80°	31964	6624	5487	6624
85°	28552	0	2158	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1209.3	5.7
10°-20°	3502.0	16.4
20°-30°	5302.8	24.8
30°-40°	5314.7	24.8
40°-50°	3337.4	15.6
50°-60°	1778.5	8.3
60°-70°	731.3	3.4
70°-80°	193.2	0.9
80°-90°	32.7	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°	10014.2	46.8
0°-40°	15328.9	71.6
0°-60°	20444.8	95.5
0°-90°	21402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21402.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12706	12706	12706	12706	12706	
5°	12321	12687	13140	12687	12321	###
15°	11384	12358	13587	12358	11384	3220
25°	10665	11638	12576	11638	10665	4891
35°	8599	8841	8388	8841	8599	5387
45°	6055	3238	3747	3238	6055	4657
55°	3443	1197	1266	1197	3443	3070
65°	1371	366	335	366	1371	1422
75°	385	75	62	75	385	436
85°	81	0	6	0	81	89
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°	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7
2.5°	12575.5	12562.9	12556.8	12569.3	12575.5	12600.2	12594.1	12606.4	12606.4	12612.7	12625.0
5°	12321.1	12314.7	12321.1	12321.1	12345.9	12370.7	12364.5	12383.2	12395.4	12426.6	12438.8
7.5°	12085.4	12085.4	12079.0	12103.8	12116.3	12153.6	12147.2	12178.4	12197.0	12227.9	12271.3
10°	11843.3	11843.3	11849.5	11868.1	11874.5	11930.2	11930.2	11973.6	11998.3	12029.5	12085.4
12.5°	11607.6	11607.6	11644.9	11632.4	11657.2	11700.6	11719.2	11762.6	11799.9	11862.0	11917.9
15°	11384.2	11384.2	11396.7	11427.6	11446.3	11502.2	11533.1	11582.9	11626.3	11688.3	11769.0
17.5°	11191.9	11185.8	11191.9	11229.2	11266.5	11316.0	11340.8	11402.8	11446.3	11526.9	11601.5
20°	10999.6	11012.1	11012.1	11043.0	11067.8	11129.9	11154.6	11223.1	11272.6	11346.9	11434.0
22.5°	10832.1	10826.0	10826.0	10869.4	10888.0	10943.7	10968.5	11030.5	11086.5	11148.5	11229.2
25°	10664.6	10652.1	10677.1	10683.2	10695.5	10757.5	10776.2	10819.6	10875.5	10931.4	11012.1
27.5°	10416.4	10404.1	10410.3	10435.0	10453.7	10503.2	10515.7	10559.1	10602.5	10652.1	10720.5
30°	9938.6	9926.4	9920.2	9963.6	9982.3	10019.3	10037.9	10112.5	10124.8	10180.7	10230.2
32.5°	9305.8	9299.7	9312.2	9349.2	9367.9	9417.7	9442.4	9485.9	9516.8	9547.9	9597.4
35°	8598.7	8586.2	8598.7	8636.0	8636.0	8679.4	8698.1	8716.5	8710.3	8716.5	8704.2
37.5°	7941.2	7934.8	7941.2	7959.6	7941.2	7959.6	7941.2	7903.9	7835.7	7761.2	7686.6
40°	7382.7	7388.8	7351.8	7376.6	7308.1	7295.9	7227.7	7134.5	6998.1	6849.3	6638.3
42.5°	6787.2	6768.6	6743.8	6756.1	6700.4	6656.7	6545.1	6427.4	6253.5	6005.6	5751.0
45°	6055.1	6049.0	6036.5	6030.3	5993.0	5949.6	5856.4	5720.1	5527.8	5273.4	4969.3
47.5°	5341.6	5323.0	5323.0	5329.1	5285.7	5279.6	5205.0	5087.3	4919.8	4671.6	4355.2
50°	4659.0	4652.9	4665.4	4690.2	4659.0	4646.8	4597.2	4516.6	4367.7	4156.7	3858.7
52.5°	4044.9	4038.8	4051.3	4082.2	4069.7	4082.2	4032.6	3970.6	3871.3	3666.5	3406.0
55°	3443.3	3443.3	3443.3	3480.3	3480.3	3480.3	3455.5	3418.5	3325.3	3176.4	2934.6
57.5°	2816.6	2822.7	2860.0	2866.2	2860.0	2872.5	2866.2	2828.9	2767.1	2661.6	2475.5
60°	2289.3	2289.3	2307.9	2326.6	2320.2	2326.6	2326.6	2307.9	2245.9	2159.1	2010.2
62.5°	1811.5	1830.2	1817.7	1830.2	1854.9	1830.2	1817.7	1805.4	1762.0	1706.1	1582.0
65°	1371.0	1383.5	1383.5	1389.7	1377.2	1383.5	1358.8	1340.1	1315.4	1253.3	1172.6
67.5°	1042.4	1042.4	1042.4	1042.4	1036.0	1029.9	1023.7	1005.1	961.7	936.9	849.8
70°	800.3	763.0	763.0	763.0	763.0	769.4	750.8	726.0	713.5	670.1	608.0
72.5°	533.4	546.0	533.4	533.4	521.2	527.3	502.5	490.0	477.8	453.0	415.7
75°	384.6	353.7	365.9	372.3	353.7	365.9	341.2	316.4	316.4	297.7	279.1
77.5°	248.2	242.1	248.2	254.3	248.2	242.1	229.6	217.1	217.1	210.9	192.3
80°	180.0	173.6	173.6	173.6	167.5	173.6	161.4	161.4	148.9	142.7	130.2
82.5°	118.0	118.0	111.6	118.0	111.6	118.0	99.3	99.3	99.3	93.0	80.7
85°	80.7	68.2	68.2	74.6	62.1	74.6	68.2	62.1	55.9	55.9	49.5
87.5°	37.3	43.4	37.3	43.4	37.3	37.3	43.4	37.3	37.3	24.8	24.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7
2.5°	12643.6	12649.8	12649.8	12674.8	12687.0	12693.2	12693.2	12743.0	12724.3	12736.8	12749.1
5°	12463.9	12500.9	12513.4	12513.4	12581.6	12606.4	12631.1	12687.0	12693.2	12730.5	12773.9
7.5°	12290.0	12333.4	12358.4	12414.1	12457.5	12500.9	12575.5	12612.7	12649.8	12699.6	12755.2
10°	12122.4	12172.2	12221.8	12265.2	12333.4	12389.3	12438.8	12525.7	12569.3	12637.5	12711.8
12.5°	11961.3	12029.5	12072.9	12147.2	12221.8	12271.3	12345.9	12426.6	12494.8	12562.9	12649.8
15°	11818.6	11899.3	11948.8	12029.5	12110.2	12178.4	12259.1	12358.4	12407.9	12488.6	12569.3
17.5°	11663.3	11750.4	11812.4	11886.8	11986.1	12060.4	12128.8	12227.9	12290.0	12376.8	12470.0
20°	11502.2	11589.0	11663.3	11737.9	11837.2	11911.5	11992.2	12091.5	12159.7	12246.6	12321.1
22.5°	11309.9	11390.6	11471.0	11557.8	11657.2	11719.2	11812.4	11899.3	11973.6	12054.3	12128.8
25°	11061.7	11161.0	11223.1	11303.5	11384.2	11452.4	11551.7	11638.5	11700.6	11775.2	11843.3
27.5°	10770.1	10844.6	10894.2	10962.3	11043.0	11105.1	11179.4	11266.5	11328.5	11396.7	11446.3
30°	10273.6	10342.1	10385.5	10435.0	10515.7	10571.6	10633.7	10714.1	10757.5	10807.3	10850.8
32.5°	9622.2	9678.1	9702.9	9740.2	9796.1	9851.8	9901.6	9969.8	9988.4	10019.3	10019.3
35°	8679.4	8691.7	8685.6	8698.1	8722.8	8753.7	8797.2	8840.6	8865.3	8865.3	8846.9
37.5°	7575.0	7500.7	7420.0	7357.9	7339.3	7326.8	7351.8	7370.2	7395.2	7407.5	7376.6
40°	6427.4	6259.9	6079.9	5918.5	5806.9	5757.3	5738.7	5751.0	5751.0	5794.4	5794.4
42.5°	5441.0	5180.2	4913.6	4671.6	4510.2	4386.3	4330.4	4330.4	4336.5	4367.7	4386.3
45°	4622.0	4293.1	3982.8	3716.3	3492.8	3331.4	3257.1	3238.5	3232.3	3244.6	3288.0
47.5°	3995.4	3654.2	3331.4	3002.8	2767.1	2605.7	2537.5	2512.5	2487.7	2512.5	2518.9
50°	3505.3	3151.7	2810.5	2481.6	2233.4	2090.6	2003.8	1966.5	1960.4	1960.4	1972.9
52.5°	3058.4	2729.8	2388.6	2053.6	1792.9	1656.5	1575.8	1557.2	1532.4	1557.2	1557.2
55°	2636.6	2307.9	1972.9	1656.5	1439.2	1296.7	1222.2	1197.4	1184.9	1203.5	1203.5
57.5°	2177.7	1898.3	1588.3	1302.8	1085.8	986.5	930.5	899.6	893.2	905.8	893.2
60°	1786.8	1551.1	1284.2	1023.7	856.2	750.8	707.3	694.8	682.3	694.8	694.8
62.5°	1414.4	1216.0	998.7	800.3	657.6	583.2	533.4	533.4	527.3	527.3	533.4
65°	1048.5	893.2	738.2	570.7	459.1	403.2	365.9	365.9	359.8	365.9	359.8
67.5°	763.0	657.6	533.4	415.7	328.9	297.7	273.0	254.3	266.9	254.3	248.2
70°	558.5	471.4	384.6	316.4	254.3	223.4	204.8	198.4	186.2	186.2	186.2
72.5°	372.3	316.4	260.5	204.8	167.5	136.4	130.2	118.0	105.5	111.6	124.1
75°	248.2	210.9	186.2	148.9	111.6	111.6	74.6	74.6	62.1	74.6	55.9
77.5°	173.6	142.7	111.6	93.0	74.6	68.2	49.5	49.5	43.4	43.4	43.4
80°	124.1	105.5	80.7	68.2	49.5	49.5	43.4	37.3	30.9	30.9	37.3
82.5°	74.6	55.9	55.9	49.5	30.9	24.8	18.6	24.8	12.5	12.5	12.5
85°	43.4	37.3	30.9	18.6	12.5	12.5	6.1	0.0	6.1	6.1	0.0
87.5°	24.8	12.5	12.5	6.1	0.0	6.1	6.1	0.0	0.0	0.0	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7
2.5°	12780.3	12773.9	12786.4	12786.4	12823.7	12817.3	12835.9	12835.9	12823.7	12829.8	12854.6
5°	12823.7	12842.3	12879.3	12910.5	12966.2	12991.2	13022.1	13053.2	13059.4	13078.0	13096.6
7.5°	12823.7	12885.7	12929.1	12984.8	13059.4	13102.8	13171.0	13226.9	13251.6	13282.5	13319.8
10°	12798.6	12860.7	12941.4	13003.4	13096.6	13164.8	13233.0	13319.8	13357.1	13406.7	13456.4
12.5°	12749.1	12817.3	12904.1	12984.8	13090.3	13152.3	13239.1	13319.8	13375.8	13443.9	13499.9
15°	12674.8	12755.2	12835.9	12916.6	13028.2	13102.8	13183.5	13276.4	13332.3	13406.7	13456.4
17.5°	12556.8	12643.6	12718.2	12792.5	12898.0	12984.8	13059.4	13146.2	13202.1	13264.2	13332.3
20°	12414.1	12494.8	12575.5	12637.5	12743.0	12817.3	12898.0	12978.7	13022.1	13034.6	13140.1
22.5°	12234.3	12290.0	12352.0	12451.4	12513.4	12581.6	12656.1	12730.5	12773.9	12842.3	12879.3
25°	11936.3	11992.2	12060.4	12103.8	12178.4	12234.3	12308.6	12389.3	12414.1	12463.9	12500.9
27.5°	11520.8	11551.7	11582.9	11619.9	11663.3	11694.5	11737.9	11775.2	11799.9	11824.7	11849.5
30°	10863.0	10863.0	10863.0	10838.2	10856.9	10875.5	10881.7	10875.5	10875.5	10869.4	10869.4
32.5°	9994.5	9945.0	9889.1	9839.5	9820.9	9796.1	9783.6	9765.0	9734.1	9715.4	9721.6
35°	8821.9	8710.3	8642.1	8580.1	8530.6	8493.3	8474.6	8456.0	8449.9	8425.1	8400.1
37.5°	7357.9	7277.2	7227.7	7190.4	7147.0	7109.7	7115.9	7122.2	7140.6	7128.4	7134.5
40°	5806.9	5788.2	5806.9	5763.5	5751.0	5763.5	5794.4	5838.0	5862.8	5887.6	5931.0
42.5°	4417.2	4448.1	4491.8	4491.8	4510.2	4535.2	4572.2	4640.7	4677.7	4721.1	4770.9
45°	3325.3	3362.6	3418.5	3436.9	3449.4	3480.3	3524.0	3579.6	3604.4	3641.7	3685.1
47.5°	2562.3	2587.1	2618.0	2649.1	2680.0	2692.5	2735.9	2735.9	2767.1	2791.9	2804.1
50°	1997.7	2022.5	2047.2	2065.9	2078.4	2097.0	2109.3	2127.9	2134.0	2146.6	2152.7
52.5°	1563.3	1594.5	1594.5	1606.7	1625.4	1644.0	1637.9	1644.0	1650.1	1650.1	1668.8
55°	1222.2	1222.2	1240.8	1240.8	1253.3	1246.9	1253.3	1253.3	1253.3	1253.3	1259.4
57.5°	911.9	918.3	936.9	924.4	918.3	930.5	918.3	930.5	924.4	936.9	918.3
60°	701.0	701.0	707.3	707.3	713.5	713.5	713.5	707.3	707.3	701.0	701.0
62.5°	527.3	533.4	539.8	533.4	533.4	533.4	527.3	527.3	521.2	514.8	514.8
65°	353.7	347.5	359.8	347.5	353.7	353.7	347.5	353.7	335.0	341.2	335.0
67.5°	254.3	248.2	242.1	248.2	242.1	235.7	235.7	242.1	248.2	229.6	229.6
70°	167.5	173.6	167.5	173.6	180.0	180.0	173.6	167.5	173.6	161.4	167.5
72.5°	105.5	105.5	105.5	105.5	105.5	111.6	111.6	111.6	99.3	99.3	93.0
75°	49.5	68.2	55.9	49.5	68.2	68.2	62.1	62.1	55.9	55.9	55.9
77.5°	49.5	37.3	37.3	37.3	37.3	37.3	37.3	37.3	30.9	37.3	30.9
80°	24.8	24.8	24.8	18.6	24.8	24.8	30.9	24.8	24.8	18.6	30.9
82.5°	12.5	12.5	12.5	0.0	6.1	12.5	12.5	6.1	12.5	12.5	6.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249000

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7
2.5°	12848.4	12842.3	12848.4	12854.6	12848.4	12842.3	12848.4	12854.6	12829.8	12823.7	12835.9
5°	13121.4	13121.4	13133.7	13140.1	13133.7	13121.4	13121.4	13096.6	13078.0	13059.4	13053.2
7.5°	13357.1	13369.6	13381.9	13388.0	13381.9	13369.6	13357.1	13319.8	13282.5	13251.6	13226.9
10°	13499.9	13518.5	13543.3	13555.5	13543.3	13518.5	13499.9	13456.4	13406.7	13357.1	13319.8
12.5°	13561.9	13580.6	13611.5	13605.3	13611.5	13580.6	13561.9	13499.9	13443.9	13375.8	13319.8
15°	13518.5	13543.3	13574.2	13586.7	13574.2	13543.3	13518.5	13456.4	13406.7	13332.3	13276.4
17.5°	13381.9	13419.2	13437.8	13456.4	13437.8	13419.2	13381.9	13332.3	13264.2	13202.1	13146.2
20°	13195.7	13220.8	13245.5	13251.6	13245.5	13220.8	13195.7	13140.1	13034.6	13022.1	12978.7
22.5°	12929.1	12947.8	13003.4	12984.8	13003.4	12947.8	12929.1	12879.3	12842.3	12773.9	12730.5
25°	12544.3	12562.9	12569.3	12575.5	12569.3	12562.9	12544.3	12500.9	12463.9	12414.1	12389.3
27.5°	11880.6	11880.6	11892.9	11899.3	11892.9	11880.6	11880.6	11849.5	11824.7	11799.9	11775.2
30°	10875.5	10875.5	10875.5	10906.7	10875.5	10875.5	10875.5	10869.4	10869.4	10875.5	10875.5
32.5°	9715.4	9702.9	9690.7	9702.9	9690.7	9702.9	9715.4	9721.6	9715.4	9734.1	9765.0
35°	8400.1	8393.9	8412.6	8387.8	8412.6	8393.9	8400.1	8400.1	8425.1	8449.9	8456.0
37.5°	7140.6	7128.4	7153.1	7128.4	7153.1	7128.4	7140.6	7134.5	7128.4	7140.6	7122.2
40°	5943.5	5955.8	5955.8	6005.6	5955.8	5955.8	5943.5	5931.0	5887.6	5862.8	5838.0
42.5°	4795.7	4832.9	4820.4	4857.7	4820.4	4832.9	4795.7	4770.9	4721.1	4677.7	4640.7
45°	3709.9	3734.9	3734.9	3747.2	3734.9	3734.9	3709.9	3685.1	3641.7	3604.4	3579.6
47.5°	2847.5	2847.5	2847.5	2853.9	2847.5	2847.5	2847.5	2804.1	2791.9	2767.1	2735.9
50°	2165.2	2171.3	2177.7	2183.8	2177.7	2171.3	2165.2	2152.7	2146.6	2134.0	2127.9
52.5°	1662.6	1668.8	1656.5	1668.8	1656.5	1668.8	1662.6	1668.8	1650.1	1650.1	1644.0
55°	1259.4	1253.3	1259.4	1265.6	1259.4	1253.3	1259.4	1259.4	1253.3	1253.3	1253.3
57.5°	924.4	911.9	911.9	911.9	911.9	911.9	924.4	918.3	936.9	924.4	930.5
60°	688.7	694.8	694.8	701.0	694.8	694.8	688.7	701.0	701.0	707.3	707.3
62.5°	508.7	527.3	514.8	527.3	514.8	527.3	508.7	514.8	514.8	521.2	527.3
65°	328.9	328.9	328.9	335.0	328.9	328.9	328.9	335.0	341.2	335.0	353.7
67.5°	223.4	229.6	242.1	235.7	242.1	229.6	223.4	229.6	229.6	248.2	242.1
70°	180.0	161.4	161.4	180.0	161.4	161.4	180.0	167.5	161.4	173.6	167.5
72.5°	105.5	93.0	105.5	105.5	105.5	93.0	105.5	93.0	99.3	99.3	111.6
75°	55.9	49.5	43.4	62.1	43.4	49.5	55.9	55.9	55.9	55.9	62.1
77.5°	37.3	30.9	43.4	43.4	43.4	30.9	37.3	30.9	37.3	30.9	37.3
80°	18.6	24.8	18.6	30.9	18.6	24.8	18.6	30.9	18.6	24.8	24.8
82.5°	6.1	12.5	12.5	12.5	12.5	12.5	6.1	6.1	12.5	12.5	6.1
85°	0.0	12.5	6.1	6.1	6.1	12.5	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	0.0	0.0	6.1	0.0	0.0	6.1	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249000

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7
2.5°	12835.9	12817.3	12823.7	12786.4	12786.4	12773.9	12780.3	12749.1	12736.8	12724.3	12743.0
5°	13022.1	12991.2	12966.2	12910.5	12879.3	12842.3	12823.7	12773.9	12730.5	12693.2	12687.0
7.5°	13171.0	13102.8	13059.4	12984.8	12929.1	12885.7	12823.7	12755.2	12699.6	12649.8	12612.7
10°	13233.0	13164.8	13096.6	13003.4	12941.4	12860.7	12798.6	12711.8	12637.5	12569.3	12525.7
12.5°	13239.1	13152.3	13090.3	12984.8	12904.1	12817.3	12749.1	12649.8	12562.9	12494.8	12426.6
15°	13183.5	13102.8	13028.2	12916.6	12835.9	12755.2	12674.8	12569.3	12488.6	12407.9	12358.4
17.5°	13059.4	12984.8	12898.0	12792.5	12718.2	12643.6	12556.8	12470.0	12376.8	12290.0	12227.9
20°	12898.0	12817.3	12743.0	12637.5	12575.5	12494.8	12414.1	12321.1	12246.6	12159.7	12091.5
22.5°	12656.1	12581.6	12513.4	12451.4	12352.0	12290.0	12234.3	12128.8	12054.3	11973.6	11899.3
25°	12308.6	12234.3	12178.4	12103.8	12060.4	11992.2	11936.3	11843.3	11775.2	11700.6	11638.5
27.5°	11737.9	11694.5	11663.3	11619.9	11582.9	11551.7	11520.8	11446.3	11396.7	11328.5	11266.5
30°	10881.7	10875.5	10856.9	10838.2	10863.0	10863.0	10863.0	10850.8	10807.3	10757.5	10714.1
32.5°	9783.6	9796.1	9820.9	9839.5	9889.1	9945.0	9994.5	10019.3	10019.3	9988.4	9969.8
35°	8474.6	8493.3	8530.6	8580.1	8642.1	8710.3	8821.9	8846.9	8865.3	8865.3	8840.6
37.5°	7115.9	7109.7	7147.0	7190.4	7227.7	7277.2	7357.9	7376.6	7407.5	7395.2	7370.2
40°	5794.4	5763.5	5751.0	5763.5	5806.9	5788.2	5806.9	5794.4	5794.4	5751.0	5751.0
42.5°	4572.2	4535.2	4510.2	4491.8	4491.8	4448.1	4417.2	4386.3	4367.7	4336.5	4330.4
45°	3524.0	3480.3	3449.4	3436.9	3418.5	3362.6	3325.3	3288.0	3244.6	3232.3	3238.5
47.5°	2735.9	2692.5	2680.0	2649.1	2618.0	2587.1	2562.3	2518.9	2512.5	2487.7	2512.5
50°	2109.3	2097.0	2078.4	2065.9	2047.2	2022.5	1997.7	1972.9	1960.4	1960.4	1966.5
52.5°	1637.9	1644.0	1625.4	1606.7	1594.5	1594.5	1563.3	1557.2	1557.2	1532.4	1557.2
55°	1253.3	1246.9	1253.3	1240.8	1240.8	1222.2	1222.2	1203.5	1203.5	1184.9	1197.4
57.5°	918.3	930.5	918.3	924.4	936.9	918.3	911.9	893.2	905.8	893.2	899.6
60°	713.5	713.5	713.5	707.3	707.3	701.0	701.0	694.8	694.8	682.3	694.8
62.5°	527.3	533.4	533.4	533.4	539.8	533.4	527.3	533.4	527.3	527.3	533.4
65°	347.5	353.7	353.7	347.5	359.8	347.5	353.7	359.8	365.9	359.8	365.9
67.5°	235.7	235.7	242.1	248.2	242.1	248.2	254.3	248.2	254.3	266.9	254.3
70°	173.6	180.0	180.0	173.6	167.5	173.6	167.5	186.2	186.2	186.2	198.4
72.5°	111.6	111.6	105.5	105.5	105.5	105.5	105.5	124.1	111.6	105.5	118.0
75°	62.1	68.2	68.2	49.5	55.9	68.2	49.5	55.9	74.6	62.1	74.6
77.5°	37.3	37.3	37.3	37.3	37.3	37.3	49.5	43.4	43.4	43.4	49.5
80°	30.9	24.8	24.8	18.6	24.8	24.8	24.8	37.3	30.9	30.9	37.3
82.5°	12.5	12.5	6.1	0.0	12.5	12.5	12.5	12.5	12.5	12.5	24.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249000

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7
2.5°	12693.2	12693.2	12687.0	12674.8	12649.8	12649.8	12643.6	12625.0	12612.7	12606.4	12606.4
5°	12631.1	12606.4	12581.6	12513.4	12513.4	12500.9	12463.9	12438.8	12426.6	12395.4	12383.2
7.5°	12575.5	12500.9	12457.5	12414.1	12358.4	12333.4	12290.0	12271.3	12227.9	12197.0	12178.4
10°	12438.8	12389.3	12333.4	12265.2	12221.8	12172.2	12122.4	12085.4	12029.5	11998.3	11973.6
12.5°	12345.9	12271.3	12221.8	12147.2	12072.9	12029.5	11961.3	11917.9	11862.0	11799.9	11762.6
15°	12259.1	12178.4	12110.2	12029.5	11948.8	11899.3	11818.6	11769.0	11688.3	11626.3	11582.9
17.5°	12128.8	12060.4	11986.1	11886.8	11812.4	11750.4	11663.3	11601.5	11526.9	11446.3	11402.8
20°	11992.2	11911.5	11837.2	11737.9	11663.3	11589.0	11502.2	11434.0	11346.9	11272.6	11223.1
22.5°	11812.4	11719.2	11657.2	11557.8	11471.0	11390.6	11309.9	11229.2	11148.5	11086.5	11030.5
25°	11551.7	11452.4	11384.2	11303.5	11223.1	11161.0	11061.7	11012.1	10931.4	10875.5	10819.6
27.5°	11179.4	11105.1	11043.0	10962.3	10894.2	10844.6	10770.1	10720.5	10652.1	10602.5	10559.1
30°	10633.7	10571.6	10515.7	10435.0	10385.5	10342.1	10273.6	10230.2	10180.7	10124.8	10112.5
32.5°	9901.6	9851.8	9796.1	9740.2	9702.9	9678.1	9622.2	9597.4	9547.9	9516.8	9485.9
35°	8797.2	8753.7	8722.8	8698.1	8685.6	8691.7	8679.4	8704.2	8716.5	8710.3	8716.5
37.5°	7351.8	7326.8	7339.3	7357.9	7420.0	7500.7	7575.0	7686.6	7761.2	7835.7	7903.9
40°	5738.7	5757.3	5806.9	5918.5	6079.9	6259.9	6427.4	6638.3	6849.3	6998.1	7134.5
42.5°	4330.4	4386.3	4510.2	4671.6	4913.6	5180.2	5441.0	5751.0	6005.6	6253.5	6427.4
45°	3257.1	3331.4	3492.8	3716.3	3982.8	4293.1	4622.0	4969.3	5273.4	5527.8	5720.1
47.5°	2537.5	2605.7	2767.1	3002.8	3331.4	3654.2	3995.4	4355.2	4671.6	4919.8	5087.3
50°	2003.8	2090.6	2233.4	2481.6	2810.5	3151.7	3505.3	3858.7	4156.7	4367.7	4516.6
52.5°	1575.8	1656.5	1792.9	2053.6	2388.6	2729.8	3058.4	3406.0	3666.5	3871.3	3970.6
55°	1222.2	1296.7	1439.2	1656.5	1972.9	2307.9	2636.6	2934.6	3176.4	3325.3	3418.5
57.5°	930.5	986.5	1085.8	1302.8	1588.3	1898.3	2177.7	2475.5	2661.6	2767.1	2828.9
60°	707.3	750.8	856.2	1023.7	1284.2	1551.1	1786.8	2010.2	2159.1	2245.9	2307.9
62.5°	533.4	583.2	657.6	800.3	998.7	1216.0	1414.4	1582.0	1706.1	1762.0	1805.4
65°	365.9	403.2	459.1	570.7	738.2	893.2	1048.5	1172.6	1253.3	1315.4	1340.1
67.5°	273.0	297.7	328.9	415.7	533.4	657.6	763.0	849.8	936.9	961.7	1005.1
70°	204.8	223.4	254.3	316.4	384.6	471.4	558.5	608.0	670.1	713.5	726.0
72.5°	130.2	136.4	167.5	204.8	260.5	316.4	372.3	415.7	453.0	477.8	490.0
75°	74.6	111.6	111.6	148.9	186.2	210.9	248.2	279.1	297.7	316.4	316.4
77.5°	49.5	68.2	74.6	93.0	111.6	142.7	173.6	192.3	210.9	217.1	217.1
80°	43.4	49.5	49.5	68.2	80.7	105.5	124.1	130.2	142.7	148.9	161.4
82.5°	18.6	24.8	30.9	49.5	55.9	55.9	74.6	80.7	93.0	99.3	99.3
85°	6.1	12.5	12.5	18.6	30.9	37.3	43.4	49.5	55.9	55.9	62.1
87.5°	6.1	6.1	0.0	6.1	12.5	12.5	24.8	24.8	24.8	37.3	37.3
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: P249000

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7	12705.7
2.5°	12594.1	12600.2	12575.5	12569.3	12556.8	12562.9	12575.5
5°	12364.5	12370.7	12345.9	12321.1	12321.1	12314.7	12321.1
7.5°	12147.2	12153.6	12116.3	12103.8	12079.0	12085.4	12085.4
10°	11930.2	11930.2	11874.5	11868.1	11849.5	11843.3	11843.3
12.5°	11719.2	11700.6	11657.2	11632.4	11644.9	11607.6	11607.6
15°	11533.1	11502.2	11446.3	11427.6	11396.7	11384.2	11384.2
17.5°	11340.8	11316.0	11266.5	11229.2	11191.9	11185.8	11191.9
20°	11154.6	11129.9	11067.8	11043.0	11012.1	11012.1	10999.6
22.5°	10968.5	10943.7	10888.0	10869.4	10826.0	10826.0	10832.1
25°	10776.2	10757.5	10695.5	10683.2	10677.1	10652.1	10664.6
27.5°	10515.7	10503.2	10453.7	10435.0	10410.3	10404.1	10416.4
30°	10037.9	10019.3	9982.3	9963.6	9920.2	9926.4	9938.6
32.5°	9442.4	9417.7	9367.9	9349.2	9312.2	9299.7	9305.8
35°	8698.1	8679.4	8636.0	8636.0	8598.7	8586.2	8598.7
37.5°	7941.2	7959.6	7941.2	7959.6	7941.2	7934.8	7941.2
40°	7227.7	7295.9	7308.1	7376.6	7351.8	7388.8	7382.7
42.5°	6545.1	6656.7	6700.4	6756.1	6743.8	6768.6	6787.2
45°	5856.4	5949.6	5993.0	6030.3	6036.5	6049.0	6055.1
47.5°	5205.0	5279.6	5285.7	5329.1	5323.0	5323.0	5341.6
50°	4597.2	4646.8	4659.0	4690.2	4665.4	4652.9	4659.0
52.5°	4032.6	4082.2	4069.7	4082.2	4051.3	4038.8	4044.9
55°	3455.5	3480.3	3480.3	3480.3	3443.3	3443.3	3443.3
57.5°	2866.2	2872.5	2860.0	2866.2	2860.0	2822.7	2816.6
60°	2326.6	2326.6	2320.2	2326.6	2307.9	2289.3	2289.3
62.5°	1817.7	1830.2	1854.9	1830.2	1817.7	1830.2	1811.5
65°	1358.8	1383.5	1377.2	1389.7	1383.5	1383.5	1371.0
67.5°	1023.7	1029.9	1036.0	1042.4	1042.4	1042.4	1042.4
70°	750.8	769.4	763.0	763.0	763.0	763.0	800.3
72.5°	502.5	527.3	521.2	533.4	533.4	546.0	533.4
75°	341.2	365.9	353.7	372.3	365.9	353.7	384.6
77.5°	229.6	242.1	248.2	254.3	248.2	242.1	248.2
80°	161.4	173.6	167.5	173.6	173.6	173.6	180.0
82.5°	99.3	118.0	111.6	118.0	111.6	118.0	118.0
85°	68.2	74.6	62.1	74.6	68.2	68.2	80.7
87.5°	43.4	37.3	37.3	43.4	37.3	43.4	37.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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