

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: P248676

Luminaire Tested: **LD8B200D010 ER8B200835 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248676
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 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21440.0 lumens
Efficiency: N/A
Efficacy: 96.0 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

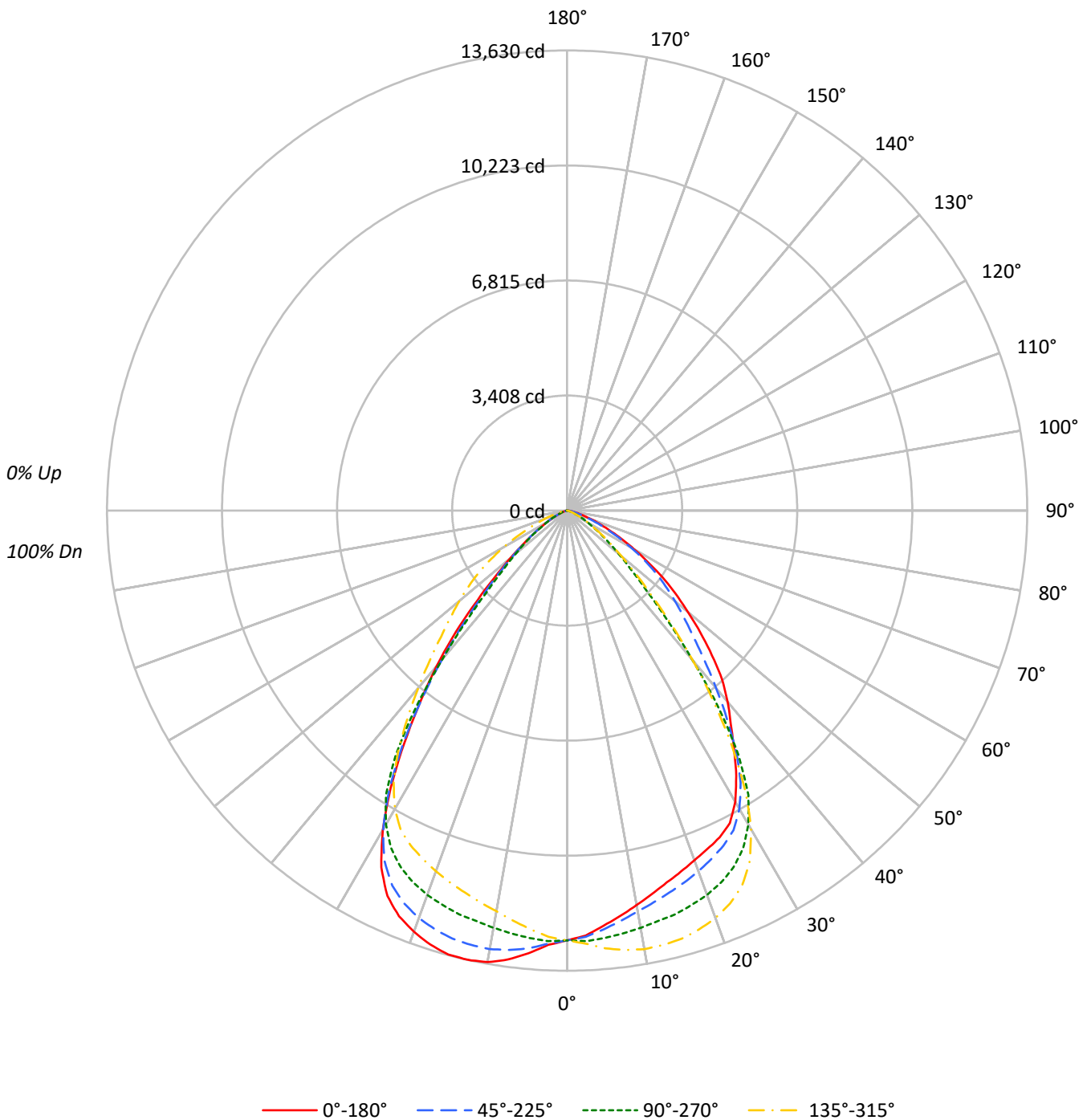
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	392491	392491	392491	392491
5°	382067	393414	407461	393414
10°	371498	392900	425205	392900
15°	364075	395230	434513	395230
20°	361599	397492	435630	397492
25°	363497	396694	428629	396694
30°	354511	382174	389039	382174
35°	324267	333388	316313	333388
40°	297710	231911	242176	231911
45°	264524	141477	163700	141477
50°	223903	94506	104950	94506
55°	185445	64487	68159	64487
60°	141440	42930	43307	42930
65°	100217	26749	24487	26749
70°	72281	17924	16256	17924
75°	45906	8900	7411	8900
80°	32018	6624	5505	6624
85°	28588	0	2158	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1211.5	5.7
10°-20°	3508.2	16.4
20°-30°	5312.2	24.8
30°-40°	5324.2	24.8
40°-50°	3343.3	15.6
50°-60°	1781.6	8.3
60°-70°	732.6	3.4
70°-80°	193.6	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°	10032.0	46.8
0°-40°	15356.1	71.6
0°-60°	20481.1	95.5
0°-90°	21440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21440.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12728	12728	12728	12728	12728	
5°	12343	12710	13163	12710	12343	###
15°	11404	12380	13611	12380	11404	3226
25°	10684	11659	12598	11659	10684	4900
35°	8614	8856	8403	8856	8614	5397
45°	6066	3244	3754	3244	6066	4665
55°	3449	1200	1268	1200	3449	3075
65°	1374	367	336	367	1374	1425
75°	385	75	62	75	385	437
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°	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2
2.5°	12597.8	12585.2	12579.1	12591.6	12597.8	12622.6	12616.5	12628.7	12628.7	12635.1	12647.4
5°	12343.0	12336.6	12343.0	12343.0	12367.8	12392.6	12386.5	12405.2	12417.4	12448.6	12460.9
7.5°	12106.9	12106.9	12100.5	12125.3	12137.8	12175.2	12168.8	12200.0	12218.7	12249.6	12293.1
10°	11864.4	11864.4	11870.5	11889.2	11895.6	11951.3	11951.3	11994.8	12019.6	12050.9	12106.9
12.5°	11628.3	11628.3	11665.6	11653.1	11677.9	11721.4	11740.0	11783.5	11820.9	11883.0	11939.1
15°	11404.4	11404.4	11416.9	11447.9	11466.6	11522.6	11553.6	11603.4	11646.9	11709.1	11789.9
17.5°	11211.8	11205.6	11211.8	11249.1	11286.5	11336.1	11360.9	11423.1	11466.6	11547.4	11622.1
20°	11019.2	11031.7	11031.7	11062.6	11087.5	11149.6	11174.4	11243.0	11292.6	11367.1	11454.3
22.5°	10851.3	10845.2	10845.2	10888.7	10907.4	10963.1	10988.0	11050.1	11106.1	11168.3	11249.1
25°	10683.5	10671.0	10696.1	10702.2	10714.5	10776.6	10795.3	10838.8	10894.8	10950.9	11031.7
27.5°	10434.9	10422.6	10428.7	10453.6	10472.2	10521.9	10534.4	10577.9	10621.4	10671.0	10739.6
30°	9956.3	9944.0	9937.8	9981.3	10000.0	10037.1	10055.8	10130.5	10142.7	10198.8	10248.4
32.5°	9322.4	9316.2	9328.7	9365.8	9384.5	9434.4	9459.2	9502.7	9533.7	9564.9	9614.5
35°	8614.0	8601.5	8614.0	8651.4	8651.4	8694.8	8713.5	8731.9	8725.8	8731.9	8719.7
37.5°	7955.3	7948.9	7955.3	7973.7	7955.3	7973.7	7955.3	7917.9	7849.6	7774.9	7700.2
40°	7395.8	7402.0	7364.9	7389.7	7321.1	7308.8	7240.5	7147.2	7010.6	6861.4	6650.1
42.5°	6799.3	6780.6	6755.8	6768.1	6712.3	6668.5	6556.8	6438.8	6264.6	6016.2	5761.2
45°	6065.8	6059.7	6047.2	6041.0	6003.7	5960.2	5866.8	5730.2	5537.6	5282.8	4978.1
47.5°	5351.1	5332.4	5332.4	5338.6	5295.1	5288.9	5214.2	5096.3	4928.5	4679.8	4362.9
50°	4667.3	4661.2	4673.7	4698.5	4667.3	4655.0	4605.4	4524.6	4375.4	4164.1	3865.6
52.5°	4052.1	4045.9	4058.5	4089.4	4076.9	4089.4	4039.8	3977.6	3878.1	3673.0	3412.0
55°	3449.4	3449.4	3449.4	3486.5	3486.5	3486.5	3461.7	3424.6	3331.2	3182.1	2939.8
57.5°	2821.6	2827.8	2865.1	2871.2	2865.1	2877.6	2871.2	2833.9	2772.0	2666.3	2479.9
60°	2293.4	2293.4	2312.0	2330.7	2324.3	2330.7	2330.7	2312.0	2249.9	2162.9	2013.8
62.5°	1814.7	1833.4	1820.9	1833.4	1858.2	1833.4	1820.9	1808.6	1765.1	1709.1	1584.8
65°	1373.5	1386.0	1386.0	1392.1	1379.6	1386.0	1361.2	1342.5	1317.7	1255.5	1174.7
67.5°	1044.2	1044.2	1044.2	1044.2	1037.8	1031.7	1025.6	1006.9	963.4	938.6	851.3
70°	801.7	764.4	764.4	764.4	764.4	770.8	752.1	727.3	714.7	671.3	609.1
72.5°	534.4	546.9	534.4	534.4	522.1	528.3	503.4	490.9	478.6	453.8	416.5
75°	385.3	354.3	366.6	373.0	354.3	366.6	341.8	317.0	317.0	298.3	279.6
77.5°	248.7	242.5	248.7	254.8	248.7	242.5	230.0	217.4	217.4	211.3	192.6
80°	180.3	174.0	174.0	174.0	167.8	174.0	161.7	161.7	149.1	143.0	130.5
82.5°	118.2	118.2	111.8	118.2	111.8	118.2	99.5	99.5	99.5	93.1	80.8
85°	80.8	68.3	68.3	74.7	62.2	74.7	68.3	62.2	56.0	56.0	49.6
87.5°	37.3	43.5	37.3	43.5	37.3	37.3	43.5	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°	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2
2.5°	12666.1	12672.2	12672.2	12697.3	12709.6	12715.7	12715.7	12765.6	12746.9	12759.5	12771.7
5°	12486.0	12523.1	12535.6	12535.6	12603.9	12628.7	12653.6	12709.6	12715.7	12753.1	12796.6
7.5°	12311.8	12355.3	12380.3	12436.1	12479.6	12523.1	12597.8	12635.1	12672.2	12722.1	12777.9
10°	12144.0	12193.9	12243.5	12287.0	12355.3	12411.3	12460.9	12547.9	12591.6	12659.9	12734.4
12.5°	11982.6	12050.9	12094.3	12168.8	12243.5	12293.1	12367.8	12448.6	12516.9	12585.2	12672.2
15°	11839.6	11920.4	11970.0	12050.9	12131.7	12200.0	12280.8	12380.3	12430.0	12510.8	12591.6
17.5°	11684.0	11771.3	11833.4	11907.9	12007.4	12081.8	12150.4	12249.6	12311.8	12398.8	12492.1
20°	11522.6	11609.6	11684.0	11758.7	11858.2	11932.7	12013.5	12113.0	12181.3	12268.3	12343.0
22.5°	11330.0	11410.8	11491.4	11578.4	11677.9	11740.0	11833.4	11920.4	11994.8	12075.7	12150.4
25°	11081.3	11180.8	11243.0	11323.6	11404.4	11472.7	11572.2	11659.2	11721.4	11796.1	11864.4
27.5°	10789.2	10863.9	10913.5	10981.8	11062.6	11124.8	11199.3	11286.5	11348.6	11416.9	11466.6
30°	10291.9	10360.4	10403.9	10453.6	10534.4	10590.4	10652.6	10733.2	10776.6	10826.5	10870.0
32.5°	9639.3	9695.3	9720.1	9757.5	9813.5	9869.3	9919.2	9987.5	10006.1	10037.1	10037.1
35°	8694.8	8707.1	8701.0	8713.5	8738.3	8769.3	8812.8	8856.3	8881.1	8881.1	8862.7
37.5°	7588.4	7514.0	7433.2	7371.0	7352.3	7339.8	7364.9	7383.3	7408.4	7420.6	7389.7
40°	6438.8	6271.0	6090.7	5929.0	5817.2	5767.6	5748.9	5761.2	5761.2	5804.7	5804.7
42.5°	5450.6	5189.4	4922.4	4679.8	4518.2	4394.1	4338.1	4338.1	4344.2	4375.4	4394.1
45°	4630.2	4300.7	3989.9	3722.9	3499.0	3337.3	3262.9	3244.2	3238.1	3250.4	3293.9
47.5°	4002.5	3660.7	3337.3	3008.1	2772.0	2610.3	2542.0	2516.9	2492.1	2516.9	2523.3
50°	3511.5	3157.2	2815.5	2486.0	2237.3	2094.3	2007.4	1970.0	1963.9	1963.9	1976.4
52.5°	3063.9	2734.6	2392.9	2057.3	1796.1	1659.5	1578.6	1559.9	1535.1	1559.9	1559.9
55°	2641.3	2312.0	1976.4	1659.5	1441.8	1299.0	1224.3	1199.5	1187.0	1205.6	1205.6
57.5°	2181.6	1901.7	1591.2	1305.2	1087.7	988.2	932.2	901.2	894.8	907.4	894.8
60°	1789.9	1553.8	1286.5	1025.6	857.7	752.1	708.6	696.1	683.5	696.1	696.1
62.5°	1417.0	1218.2	1000.5	801.7	658.7	584.3	534.4	534.4	528.3	528.3	534.4
65°	1050.4	894.8	739.6	571.7	460.0	403.9	366.6	366.6	360.4	366.6	360.4
67.5°	764.4	658.7	534.4	416.5	329.5	298.3	273.5	254.8	267.3	254.8	248.7
70°	559.5	472.2	385.3	317.0	254.8	223.8	205.2	198.8	186.5	186.5	186.5
72.5°	373.0	317.0	260.9	205.2	167.8	136.6	130.5	118.2	105.7	111.8	124.3
75°	248.7	211.3	186.5	149.1	111.8	111.8	74.7	74.7	62.2	74.7	56.0
77.5°	174.0	143.0	111.8	93.1	74.7	68.3	49.6	49.6	43.5	43.5	43.5
80°	124.3	105.7	80.8	68.3	49.6	49.6	43.5	37.3	31.0	31.0	37.3
82.5°	74.7	56.0	56.0	49.6	31.0	24.8	18.7	24.8	12.5	12.5	12.5
85°	43.5	37.3	31.0	18.7	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°	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2
2.5°	12802.9	12796.6	12809.1	12809.1	12846.4	12840.0	12858.7	12858.7	12846.4	12852.6	12877.4
5°	12846.4	12865.1	12902.2	12933.4	12989.2	13014.2	13045.2	13076.4	13082.6	13101.2	13119.9
7.5°	12846.4	12908.6	12952.1	13007.9	13082.6	13126.0	13194.3	13250.4	13275.2	13306.1	13343.5
10°	12821.4	12883.5	12964.4	13026.5	13119.9	13188.2	13256.5	13343.5	13380.8	13430.5	13480.3
12.5°	12771.7	12840.0	12927.0	13007.9	13113.5	13175.7	13262.6	13343.5	13399.5	13467.8	13523.8
15°	12697.3	12777.9	12858.7	12939.6	13051.3	13126.0	13206.9	13300.0	13356.0	13430.5	13480.3
17.5°	12579.1	12666.1	12740.8	12815.2	12920.9	13007.9	13082.6	13169.5	13225.6	13287.7	13356.0
20°	12436.1	12516.9	12597.8	12659.9	12765.6	12840.0	12920.9	13001.7	13045.2	13057.7	13163.4
22.5°	12256.0	12311.8	12373.9	12473.5	12535.6	12603.9	12678.6	12753.1	12796.6	12865.1	12902.2
25°	11957.5	12013.5	12081.8	12125.3	12200.0	12256.0	12330.5	12411.3	12436.1	12486.0	12523.1
27.5°	11541.3	11572.2	11603.4	11640.5	11684.0	11715.2	11758.7	11796.1	11820.9	11845.7	11870.5
30°	10882.3	10882.3	10882.3	10857.5	10876.2	10894.8	10901.0	10894.8	10894.8	10888.7	10888.7
32.5°	10012.3	9962.7	9906.6	9857.0	9838.3	9813.5	9801.0	9782.3	9751.3	9732.7	9738.8
35°	8837.6	8725.8	8657.5	8595.3	8545.7	8508.4	8489.7	8471.0	8464.9	8440.0	8415.0
37.5°	7371.0	7290.2	7240.5	7203.2	7159.7	7122.4	7128.5	7134.9	7153.3	7141.0	7147.2
40°	5817.2	5798.5	5817.2	5773.7	5761.2	5773.7	5804.7	5848.4	5873.2	5898.0	5941.5
42.5°	4425.1	4456.0	4499.8	4499.8	4518.2	4543.2	4580.3	4648.9	4686.0	4729.5	4779.4
45°	3331.2	3368.6	3424.6	3443.0	3455.5	3486.5	3530.2	3586.0	3610.8	3648.2	3691.6
47.5°	2566.8	2591.6	2622.6	2653.8	2684.8	2697.3	2740.8	2740.8	2772.0	2796.8	2809.1
50°	2001.2	2026.0	2050.9	2069.5	2082.1	2100.7	2113.0	2131.7	2137.8	2150.4	2156.5
52.5°	1566.1	1597.3	1597.3	1609.6	1628.3	1646.9	1640.8	1646.9	1653.1	1653.1	1671.7
55°	1224.3	1224.3	1243.0	1243.0	1255.5	1249.1	1255.5	1255.5	1255.5	1255.5	1261.7
57.5°	913.5	919.9	938.6	926.0	919.9	932.2	919.9	932.2	926.0	938.6	919.9
60°	702.2	702.2	708.6	708.6	714.7	714.7	714.7	708.6	708.6	702.2	702.2
62.5°	528.3	534.4	540.8	534.4	534.4	534.4	528.3	528.3	522.1	515.7	515.7
65°	354.3	348.2	360.4	348.2	354.3	354.3	348.2	354.3	335.6	341.8	335.6
67.5°	254.8	248.7	242.5	248.7	242.5	236.1	236.1	242.5	248.7	230.0	230.0
70°	167.8	174.0	167.8	174.0	180.3	180.3	174.0	167.8	174.0	161.7	167.8
72.5°	105.7	105.7	105.7	105.7	105.7	111.8	111.8	111.8	99.5	99.5	93.1
75°	49.6	68.3	56.0	49.6	68.3	68.3	62.2	62.2	56.0	56.0	56.0
77.5°	49.6	37.3	37.3	37.3	37.3	37.3	37.3	37.3	31.0	37.3	31.0
80°	24.8	24.8	24.8	18.7	24.8	24.8	31.0	24.8	24.8	18.7	31.0
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: P248676

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2
2.5°	12871.2	12865.1	12871.2	12877.4	12871.2	12865.1	12871.2	12877.4	12852.6	12846.4	12858.7
5°	13144.7	13144.7	13157.0	13163.4	13157.0	13144.7	13144.7	13119.9	13101.2	13082.6	13076.4
7.5°	13380.8	13393.4	13405.6	13411.8	13405.6	13393.4	13380.8	13343.5	13306.1	13275.2	13250.4
10°	13523.8	13542.5	13567.3	13579.6	13567.3	13542.5	13523.8	13480.3	13430.5	13380.8	13343.5
12.5°	13586.0	13604.7	13635.6	13629.5	13635.6	13604.7	13586.0	13523.8	13467.8	13399.5	13343.5
15°	13542.5	13567.3	13598.3	13610.8	13598.3	13567.3	13542.5	13480.3	13430.5	13356.0	13300.0
17.5°	13405.6	13443.0	13461.7	13480.3	13461.7	13443.0	13405.6	13356.0	13287.7	13225.6	13169.5
20°	13219.2	13244.2	13269.0	13275.2	13269.0	13244.2	13219.2	13163.4	13057.7	13045.2	13001.7
22.5°	12952.1	12970.8	13026.5	13007.9	13026.5	12970.8	12952.1	12902.2	12865.1	12796.6	12753.1
25°	12566.6	12585.2	12591.6	12597.8	12591.6	12585.2	12566.6	12523.1	12486.0	12436.1	12411.3
27.5°	11901.7	11901.7	11914.0	11920.4	11914.0	11901.7	11901.7	11870.5	11845.7	11820.9	11796.1
30°	10894.8	10894.8	10894.8	10926.0	10894.8	10894.8	10894.8	10888.7	10888.7	10894.8	10894.8
32.5°	9732.7	9720.1	9707.9	9720.1	9707.9	9720.1	9732.7	9738.8	9732.7	9751.3	9782.3
35°	8415.0	8408.8	8427.5	8402.7	8427.5	8408.8	8415.0	8415.0	8440.0	8464.9	8471.0
37.5°	7153.3	7141.0	7165.8	7141.0	7165.8	7141.0	7153.3	7147.2	7141.0	7153.3	7134.9
40°	5954.1	5966.3	5966.3	6016.2	5966.3	5966.3	5954.1	5941.5	5898.0	5873.2	5848.4
42.5°	4804.2	4841.5	4829.0	4866.3	4829.0	4841.5	4804.2	4779.4	4729.5	4686.0	4648.9
45°	3716.5	3741.5	3741.5	3753.8	3741.5	3741.5	3716.5	3691.6	3648.2	3610.8	3586.0
47.5°	2852.6	2852.6	2852.6	2859.0	2852.6	2852.6	2852.6	2809.1	2796.8	2772.0	2740.8
50°	2169.0	2175.2	2181.6	2187.7	2181.6	2175.2	2169.0	2156.5	2150.4	2137.8	2131.7
52.5°	1665.6	1671.7	1659.5	1671.7	1659.5	1671.7	1665.6	1671.7	1653.1	1653.1	1646.9
55°	1261.7	1255.5	1261.7	1267.8	1261.7	1255.5	1261.7	1261.7	1255.5	1255.5	1255.5
57.5°	926.0	913.5	913.5	913.5	913.5	913.5	926.0	919.9	938.6	926.0	932.2
60°	689.9	696.1	696.1	702.2	696.1	696.1	689.9	702.2	702.2	708.6	708.6
62.5°	509.6	528.3	515.7	528.3	515.7	528.3	509.6	515.7	515.7	522.1	528.3
65°	329.5	329.5	329.5	335.6	329.5	329.5	329.5	335.6	341.8	335.6	354.3
67.5°	223.8	230.0	242.5	236.1	242.5	230.0	223.8	230.0	230.0	248.7	242.5
70°	180.3	161.7	161.7	180.3	161.7	161.7	180.3	167.8	161.7	174.0	167.8
72.5°	105.7	93.1	105.7	105.7	105.7	93.1	105.7	93.1	99.5	99.5	111.8
75°	56.0	49.6	43.5	62.2	43.5	49.6	56.0	56.0	56.0	56.0	62.2
77.5°	37.3	31.0	43.5	43.5	43.5	31.0	37.3	31.0	37.3	31.0	37.3
80°	18.7	24.8	18.7	31.0	18.7	24.8	18.7	31.0	18.7	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: P248676

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2
2.5°	12858.7	12840.0	12846.4	12809.1	12809.1	12796.6	12802.9	12771.7	12759.5	12746.9	12765.6
5°	13045.2	13014.2	12989.2	12933.4	12902.2	12865.1	12846.4	12796.6	12753.1	12715.7	12709.6
7.5°	13194.3	13126.0	13082.6	13007.9	12952.1	12908.6	12846.4	12777.9	12722.1	12672.2	12635.1
10°	13256.5	13188.2	13119.9	13026.5	12964.4	12883.5	12821.4	12734.4	12659.9	12591.6	12547.9
12.5°	13262.6	13175.7	13113.5	13007.9	12927.0	12840.0	12771.7	12672.2	12585.2	12516.9	12448.6
15°	13206.9	13126.0	13051.3	12939.6	12858.7	12777.9	12697.3	12591.6	12510.8	12430.0	12380.3
17.5°	13082.6	13007.9	12920.9	12815.2	12740.8	12666.1	12579.1	12492.1	12398.8	12311.8	12249.6
20°	12920.9	12840.0	12765.6	12659.9	12597.8	12516.9	12436.1	12343.0	12268.3	12181.3	12113.0
22.5°	12678.6	12603.9	12535.6	12473.5	12373.9	12311.8	12256.0	12150.4	12075.7	11994.8	11920.4
25°	12330.5	12256.0	12200.0	12125.3	12081.8	12013.5	11957.5	11864.4	11796.1	11721.4	11659.2
27.5°	11758.7	11715.2	11684.0	11640.5	11603.4	11572.2	11541.3	11466.6	11416.9	11348.6	11286.5
30°	10901.0	10894.8	10876.2	10857.5	10882.3	10882.3	10882.3	10870.0	10826.5	10776.6	10733.2
32.5°	9801.0	9813.5	9838.3	9857.0	9906.6	9962.7	10012.3	10037.1	10037.1	10006.1	9987.5
35°	8489.7	8508.4	8545.7	8595.3	8657.5	8725.8	8837.6	8862.7	8881.1	8881.1	8856.3
37.5°	7128.5	7122.4	7159.7	7203.2	7240.5	7290.2	7371.0	7389.7	7420.6	7408.4	7383.3
40°	5804.7	5773.7	5761.2	5773.7	5817.2	5798.5	5817.2	5804.7	5804.7	5761.2	5761.2
42.5°	4580.3	4543.2	4518.2	4499.8	4499.8	4456.0	4425.1	4394.1	4375.4	4344.2	4338.1
45°	3530.2	3486.5	3455.5	3443.0	3424.6	3368.6	3331.2	3293.9	3250.4	3238.1	3244.2
47.5°	2740.8	2697.3	2684.8	2653.8	2622.6	2591.6	2566.8	2523.3	2516.9	2492.1	2516.9
50°	2113.0	2100.7	2082.1	2069.5	2050.9	2026.0	2001.2	1976.4	1963.9	1963.9	1970.0
52.5°	1640.8	1646.9	1628.3	1609.6	1597.3	1597.3	1566.1	1559.9	1559.9	1535.1	1559.9
55°	1255.5	1249.1	1255.5	1243.0	1243.0	1224.3	1224.3	1205.6	1205.6	1187.0	1199.5
57.5°	919.9	932.2	919.9	926.0	938.6	919.9	913.5	894.8	907.4	894.8	901.2
60°	714.7	714.7	714.7	708.6	708.6	702.2	702.2	696.1	696.1	683.5	696.1
62.5°	528.3	534.4	534.4	534.4	540.8	534.4	528.3	534.4	528.3	528.3	534.4
65°	348.2	354.3	354.3	348.2	360.4	348.2	354.3	360.4	366.6	360.4	366.6
67.5°	236.1	236.1	242.5	248.7	242.5	248.7	254.8	248.7	254.8	267.3	254.8
70°	174.0	180.3	180.3	174.0	167.8	174.0	167.8	186.5	186.5	186.5	198.8
72.5°	111.8	111.8	105.7	105.7	105.7	105.7	105.7	124.3	111.8	105.7	118.2
75°	62.2	68.3	68.3	49.6	56.0	68.3	49.6	56.0	74.7	62.2	74.7
77.5°	37.3	37.3	37.3	37.3	37.3	37.3	49.6	43.5	43.5	43.5	49.6
80°	31.0	24.8	24.8	18.7	24.8	24.8	24.8	37.3	31.0	31.0	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: P248676

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2
2.5°	12715.7	12715.7	12709.6	12697.3	12672.2	12672.2	12666.1	12647.4	12635.1	12628.7	12628.7
5°	12653.6	12628.7	12603.9	12535.6	12535.6	12523.1	12486.0	12460.9	12448.6	12417.4	12405.2
7.5°	12597.8	12523.1	12479.6	12436.1	12380.3	12355.3	12311.8	12293.1	12249.6	12218.7	12200.0
10°	12460.9	12411.3	12355.3	12287.0	12243.5	12193.9	12144.0	12106.9	12050.9	12019.6	11994.8
12.5°	12367.8	12293.1	12243.5	12168.8	12094.3	12050.9	11982.6	11939.1	11883.0	11820.9	11783.5
15°	12280.8	12200.0	12131.7	12050.9	11970.0	11920.4	11839.6	11789.9	11709.1	11646.9	11603.4
17.5°	12150.4	12081.8	12007.4	11907.9	11833.4	11771.3	11684.0	11622.1	11547.4	11466.6	11423.1
20°	12013.5	11932.7	11858.2	11758.7	11684.0	11609.6	11522.6	11454.3	11367.1	11292.6	11243.0
22.5°	11833.4	11740.0	11677.9	11578.4	11491.4	11410.8	11330.0	11249.1	11168.3	11106.1	11050.1
25°	11572.2	11472.7	11404.4	11323.6	11243.0	11180.8	11081.3	11031.7	10950.9	10894.8	10838.8
27.5°	11199.3	11124.8	11062.6	10981.8	10913.5	10863.9	10789.2	10739.6	10671.0	10621.4	10577.9
30°	10652.6	10590.4	10534.4	10453.6	10403.9	10360.4	10291.9	10248.4	10198.8	10142.7	10130.5
32.5°	9919.2	9869.3	9813.5	9757.5	9720.1	9695.3	9639.3	9614.5	9564.9	9533.7	9502.7
35°	8812.8	8769.3	8738.3	8713.5	8701.0	8707.1	8694.8	8719.7	8731.9	8725.8	8731.9
37.5°	7364.9	7339.8	7352.3	7371.0	7433.2	7514.0	7588.4	7700.2	7774.9	7849.6	7917.9
40°	5748.9	5767.6	5817.2	5929.0	6090.7	6271.0	6438.8	6650.1	6861.4	7010.6	7147.2
42.5°	4338.1	4394.1	4518.2	4679.8	4922.4	5189.4	5450.6	5761.2	6016.2	6264.6	6438.8
45°	3262.9	3337.3	3499.0	3722.9	3989.9	4300.7	4630.2	4978.1	5282.8	5537.6	5730.2
47.5°	2542.0	2610.3	2772.0	3008.1	3337.3	3660.7	4002.5	4362.9	4679.8	4928.5	5096.3
50°	2007.4	2094.3	2237.3	2486.0	2815.5	3157.2	3511.5	3865.6	4164.1	4375.4	4524.6
52.5°	1578.6	1659.5	1796.1	2057.3	2392.9	2734.6	3063.9	3412.0	3673.0	3878.1	3977.6
55°	1224.3	1299.0	1441.8	1659.5	1976.4	2312.0	2641.3	2939.8	3182.1	3331.2	3424.6
57.5°	932.2	988.2	1087.7	1305.2	1591.2	1901.7	2181.6	2479.9	2666.3	2772.0	2833.9
60°	708.6	752.1	857.7	1025.6	1286.5	1553.8	1789.9	2013.8	2162.9	2249.9	2312.0
62.5°	534.4	584.3	658.7	801.7	1000.5	1218.2	1417.0	1584.8	1709.1	1765.1	1808.6
65°	366.6	403.9	460.0	571.7	739.6	894.8	1050.4	1174.7	1255.5	1317.7	1342.5
67.5°	273.5	298.3	329.5	416.5	534.4	658.7	764.4	851.3	938.6	963.4	1006.9
70°	205.2	223.8	254.8	317.0	385.3	472.2	559.5	609.1	671.3	714.7	727.3
72.5°	130.5	136.6	167.8	205.2	260.9	317.0	373.0	416.5	453.8	478.6	490.9
75°	74.7	111.8	111.8	149.1	186.5	211.3	248.7	279.6	298.3	317.0	317.0
77.5°	49.6	68.3	74.7	93.1	111.8	143.0	174.0	192.6	211.3	217.4	217.4
80°	43.5	49.6	49.6	68.3	80.8	105.7	124.3	130.5	143.0	149.1	161.7
82.5°	18.7	24.8	31.0	49.6	56.0	56.0	74.7	80.8	93.1	99.5	99.5
85°	6.1	12.5	12.5	18.7	31.0	37.3	43.5	49.6	56.0	56.0	62.2
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: P248676

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2	12728.2
2.5°	12616.5	12622.6	12597.8	12591.6	12579.1	12585.2	12597.8
5°	12386.5	12392.6	12367.8	12343.0	12343.0	12336.6	12343.0
7.5°	12168.8	12175.2	12137.8	12125.3	12100.5	12106.9	12106.9
10°	11951.3	11951.3	11895.6	11889.2	11870.5	11864.4	11864.4
12.5°	11740.0	11721.4	11677.9	11653.1	11665.6	11628.3	11628.3
15°	11553.6	11522.6	11466.6	11447.9	11416.9	11404.4	11404.4
17.5°	11360.9	11336.1	11286.5	11249.1	11211.8	11205.6	11211.8
20°	11174.4	11149.6	11087.5	11062.6	11031.7	11031.7	11019.2
22.5°	10988.0	10963.1	10907.4	10888.7	10845.2	10845.2	10851.3
25°	10795.3	10776.6	10714.5	10702.2	10696.1	10671.0	10683.5
27.5°	10534.4	10521.9	10472.2	10453.6	10428.7	10422.6	10434.9
30°	10055.8	10037.1	10000.0	9981.3	9937.8	9944.0	9956.3
32.5°	9459.2	9434.4	9384.5	9365.8	9328.7	9316.2	9322.4
35°	8713.5	8694.8	8651.4	8651.4	8614.0	8601.5	8614.0
37.5°	7955.3	7973.7	7955.3	7973.7	7955.3	7948.9	7955.3
40°	7240.5	7308.8	7321.1	7389.7	7364.9	7402.0	7395.8
42.5°	6556.8	6668.5	6712.3	6768.1	6755.8	6780.6	6799.3
45°	5866.8	5960.2	6003.7	6041.0	6047.2	6059.7	6065.8
47.5°	5214.2	5288.9	5295.1	5338.6	5332.4	5332.4	5351.1
50°	4605.4	4655.0	4667.3	4698.5	4673.7	4661.2	4667.3
52.5°	4039.8	4089.4	4076.9	4089.4	4058.5	4045.9	4052.1
55°	3461.7	3486.5	3486.5	3486.5	3449.4	3449.4	3449.4
57.5°	2871.2	2877.6	2865.1	2871.2	2865.1	2827.8	2821.6
60°	2330.7	2330.7	2324.3	2330.7	2312.0	2293.4	2293.4
62.5°	1820.9	1833.4	1858.2	1833.4	1820.9	1833.4	1814.7
65°	1361.2	1386.0	1379.6	1392.1	1386.0	1386.0	1373.5
67.5°	1025.6	1031.7	1037.8	1044.2	1044.2	1044.2	1044.2
70°	752.1	770.8	764.4	764.4	764.4	764.4	801.7
72.5°	503.4	528.3	522.1	534.4	534.4	546.9	534.4
75°	341.8	366.6	354.3	373.0	366.6	354.3	385.3
77.5°	230.0	242.5	248.7	254.8	248.7	242.5	248.7
80°	161.7	174.0	167.8	174.0	174.0	174.0	180.3
82.5°	99.5	118.2	111.8	118.2	111.8	118.2	118.2
85°	68.3	74.7	62.2	74.7	68.3	68.3	80.8
87.5°	43.5	37.3	37.3	43.5	37.3	43.5	37.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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