

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: P248685

Luminaire Tested: **LD8B200D010 ER8B200840 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248685
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 ER8B200840 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21299.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

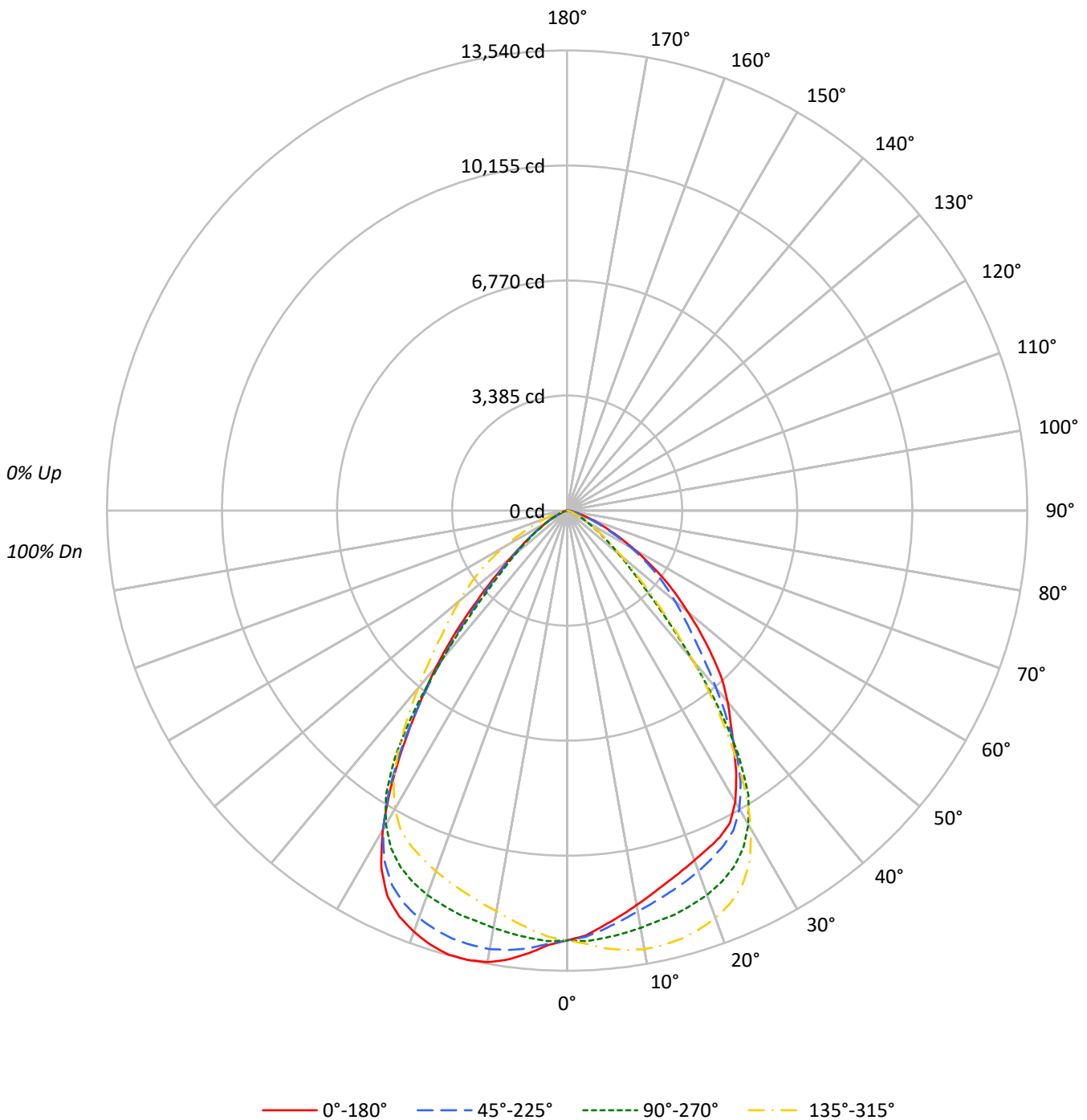
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248685

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P248685

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WMH

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°	389910	389910	389910	389910
5°	379553	390827	404781	390827
10°	369053	390317	422408	390317
15°	361681	392631	431655	392631
20°	359219	394880	432765	394880
25°	361108	394084	425808	394084
30°	352179	379660	386482	379660
35°	322136	331194	314231	331194
40°	295754	230385	240586	230385
45°	262789	140548	162623	140548
50°	222431	93888	104259	93888
55°	184224	64062	67713	64062
60°	140509	42647	43023	42647
65°	99553	26574	24327	26574
70°	71803	17806	16157	17806
75°	45596	8840	7363	8840
80°	31822	6588	5452	6588
85°	28411	0	2158	0



TEST NUMBER: P248685

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1203.5	5.7
10°-20°	3485.2	16.4
20°-30°	5277.3	24.8
30°-40°	5289.1	24.8
40°-50°	3321.3	15.6
50°-60°	1769.9	8.3
60°-70°	727.8	3.4
70°-80°	192.3	0.9
80°-90°	32.5	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°	9966.0	46.8
0°-40°	15255.1	71.6
0°-60°	20346.4	95.5
0°-90°	21299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21299.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12644	12644	12644	12644	12644	
5°	12262	12626	13077	12626	12262	###
15°	11329	12299	13521	12299	11329	3204
25°	10613	11582	12515	11582	10613	4868
35°	8557	8798	8347	8798	8557	5361
45°	6026	3223	3729	3223	6026	4634
55°	3427	1192	1260	1192	3427	3055
65°	1364	364	333	364	1364	1415
75°	383	74	62	74	383	434
85°	80	0	6	0	80	88
90°	0	0	0	0	0	



TEST NUMBER: P248685

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5
2.5°	12514.9	12502.5	12496.4	12508.8	12514.9	12539.6	12533.5	12545.7	12545.7	12552.0	12564.2
5°	12261.8	12255.5	12261.8	12261.8	12286.5	12311.1	12305.0	12323.6	12335.8	12366.8	12379.0
7.5°	12027.3	12027.3	12020.9	12045.6	12058.0	12095.1	12088.8	12119.8	12138.3	12169.1	12212.3
10°	11786.3	11786.3	11792.4	11811.0	11817.3	11872.7	11872.7	11915.9	11940.6	11971.6	12027.3
12.5°	11551.8	11551.8	11588.9	11576.4	11601.1	11644.3	11662.8	11706.0	11743.1	11804.9	11860.5
15°	11329.4	11329.4	11341.9	11372.6	11391.2	11446.8	11477.6	11527.1	11570.3	11632.1	11712.4
17.5°	11138.1	11132.0	11138.1	11175.2	11212.3	11261.6	11286.2	11348.0	11391.2	11471.5	11545.7
20°	10946.7	10959.1	10959.1	10989.9	11014.5	11076.3	11101.0	11169.1	11218.4	11292.3	11379.0
22.5°	10780.0	10773.9	10773.9	10817.1	10835.6	10891.0	10915.7	10977.4	11033.1	11094.9	11175.2
25°	10613.3	10600.8	10625.7	10631.8	10644.0	10705.8	10724.3	10767.5	10823.2	10878.8	10959.1
27.5°	10366.3	10354.1	10360.2	10384.8	10403.4	10452.7	10465.1	10508.3	10551.5	10600.8	10668.9
30°	9890.8	9878.6	9872.5	9915.7	9934.2	9971.1	9989.6	10063.8	10076.0	10131.7	10181.0
32.5°	9261.0	9254.9	9267.4	9304.2	9322.8	9372.4	9397.0	9440.2	9471.0	9502.0	9551.3
35°	8557.4	8544.9	8557.4	8594.5	8594.5	8637.7	8656.2	8674.5	8668.4	8674.5	8662.3
37.5°	7903.0	7896.6	7903.0	7921.3	7903.0	7921.3	7903.0	7865.9	7798.0	7723.8	7649.6
40°	7347.2	7353.3	7316.4	7341.1	7273.0	7260.8	7192.9	7100.2	6964.5	6816.3	6606.4
42.5°	6754.5	6736.0	6711.3	6723.5	6668.1	6624.7	6513.6	6396.5	6223.4	5976.7	5723.3
45°	6026.0	6019.9	6007.4	6001.3	5964.2	5921.0	5828.2	5692.5	5501.2	5248.1	4945.4
47.5°	5315.9	5297.4	5297.4	5303.5	5260.3	5254.2	5180.0	5062.8	4896.1	4649.1	4334.2
50°	4636.6	4630.5	4643.0	4667.6	4636.6	4624.4	4575.1	4494.8	4346.7	4136.7	3840.2
52.5°	4025.4	4019.3	4031.8	4062.5	4050.1	4062.5	4013.2	3951.5	3852.6	3648.8	3389.6
55°	3426.7	3426.7	3426.7	3463.6	3463.6	3463.6	3438.9	3402.1	3309.3	3161.1	2920.5
57.5°	2803.1	2809.2	2846.3	2852.4	2846.3	2858.7	2852.4	2815.3	2753.8	2648.8	2463.5
60°	2278.3	2278.3	2296.8	2315.4	2309.0	2315.4	2315.4	2296.8	2235.1	2148.7	2000.5
62.5°	1802.8	1821.4	1808.9	1821.4	1846.0	1821.4	1808.9	1796.7	1753.5	1697.8	1574.3
65°	1364.4	1376.9	1376.9	1383.0	1370.5	1376.9	1352.2	1333.7	1309.0	1247.3	1167.0
67.5°	1037.4	1037.4	1037.4	1037.4	1031.0	1024.9	1018.8	1000.3	957.1	932.4	845.7
70°	796.4	759.3	759.3	759.3	759.3	765.7	747.1	722.5	710.0	666.8	605.1
72.5°	530.9	543.3	530.9	530.9	518.7	524.8	500.1	487.7	475.5	450.8	413.7
75°	382.7	352.0	364.2	370.5	352.0	364.2	339.5	314.9	314.9	296.3	277.8
77.5°	247.0	240.9	247.0	253.1	247.0	240.9	228.5	216.0	216.0	209.9	191.4
80°	179.2	172.8	172.8	172.8	166.7	172.8	160.6	160.6	148.2	142.1	129.6
82.5°	117.4	117.4	111.1	117.4	111.1	117.4	98.9	98.9	98.9	92.5	80.3
85°	80.3	67.9	67.9	74.2	61.8	74.2	67.9	61.8	55.7	55.7	49.3
87.5°	37.1	43.2	37.1	43.2	37.1	37.1	43.2	37.1	37.1	24.7	24.7
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: P248685

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5
2.5°	12582.8	12588.9	12588.9	12613.8	12626.0	12632.1	12632.1	12681.6	12663.1	12675.5	12687.7
5°	12403.9	12440.7	12453.2	12453.2	12521.0	12545.7	12570.3	12626.0	12632.1	12669.2	12712.4
7.5°	12230.8	12274.0	12298.9	12354.3	12397.5	12440.7	12514.9	12552.0	12588.9	12638.4	12693.8
10°	12064.1	12113.7	12163.0	12206.2	12274.0	12329.7	12379.0	12465.4	12508.8	12576.7	12650.6
12.5°	11903.7	11971.6	12014.8	12088.8	12163.0	12212.3	12286.5	12366.8	12434.6	12502.5	12588.9
15°	11761.7	11842.0	11891.3	11971.6	12051.9	12119.8	12200.1	12298.9	12348.2	12428.5	12508.8
17.5°	11607.2	11693.8	11755.6	11829.5	11928.4	12002.4	12070.5	12169.1	12230.8	12317.2	12410.0
20°	11446.8	11533.2	11607.2	11681.4	11780.2	11854.2	11934.5	12033.4	12101.2	12187.6	12261.8
22.5°	11255.5	11335.8	11415.8	11502.2	11601.1	11662.8	11755.6	11842.0	11915.9	11996.3	12070.5
25°	11008.4	11107.3	11169.1	11249.1	11329.4	11397.3	11496.1	11582.5	11644.3	11718.5	11786.3
27.5°	10718.2	10792.4	10841.7	10909.6	10989.9	11051.6	11125.6	11212.3	11274.0	11341.9	11391.2
30°	10224.2	10292.3	10335.5	10384.8	10465.1	10520.8	10582.5	10662.6	10705.8	10755.3	10798.5
32.5°	9575.9	9631.6	9656.2	9693.3	9749.0	9804.4	9853.9	9921.8	9940.3	9971.1	9971.1
35°	8637.7	8649.9	8643.8	8656.2	8680.9	8711.6	8754.8	8798.0	8822.7	8822.7	8804.4
37.5°	7538.5	7464.6	7384.3	7322.5	7304.0	7291.5	7316.4	7334.7	7359.6	7371.8	7341.1
40°	6396.5	6229.8	6050.6	5890.0	5778.9	5729.6	5711.1	5723.3	5723.3	5766.5	5766.5
42.5°	5414.8	5155.3	4890.0	4649.1	4488.5	4365.2	4309.6	4309.6	4315.7	4346.7	4365.2
45°	4599.8	4272.5	3963.7	3698.4	3476.0	3315.4	3241.4	3222.9	3216.8	3229.0	3272.2
47.5°	3976.1	3636.6	3315.4	2988.3	2753.8	2593.2	2525.3	2500.4	2475.7	2500.4	2506.7
50°	3488.5	3136.5	2797.0	2469.6	2222.6	2080.6	1994.2	1957.1	1951.0	1951.0	1963.4
52.5°	3043.7	2716.7	2377.1	2043.7	1784.3	1648.5	1568.2	1549.7	1525.0	1549.7	1549.7
55°	2623.9	2296.8	1963.4	1648.5	1432.3	1290.5	1216.3	1191.6	1179.2	1197.7	1197.7
57.5°	2167.2	1889.2	1580.7	1296.6	1080.6	981.7	926.1	895.3	889.0	901.4	889.0
60°	1778.2	1543.6	1278.0	1018.8	852.1	747.1	703.9	691.5	679.0	691.5	691.5
62.5°	1407.6	1210.2	993.9	796.4	654.4	580.4	530.9	530.9	524.8	524.8	530.9
65°	1043.5	889.0	734.7	568.0	456.9	401.3	364.2	364.2	358.1	364.2	358.1
67.5°	759.3	654.4	530.9	413.7	327.3	296.3	271.7	253.1	265.6	253.1	247.0
70°	555.8	469.1	382.7	314.9	253.1	222.4	203.8	197.5	185.3	185.3	185.3
72.5°	370.5	314.9	259.2	203.8	166.7	135.7	129.6	117.4	105.0	111.1	123.5
75°	247.0	209.9	185.3	148.2	111.1	111.1	74.2	74.2	61.8	74.2	55.7
77.5°	172.8	142.1	111.1	92.5	74.2	67.9	49.3	49.3	43.2	43.2	43.2
80°	123.5	105.0	80.3	67.9	49.3	49.3	43.2	37.1	30.7	30.7	37.1
82.5°	74.2	55.7	55.7	49.3	30.7	24.7	18.6	24.7	12.5	12.5	12.5
85°	43.2	37.1	30.7	18.6	12.5	12.5	6.1	0.0	6.1	6.1	0.0
87.5°	24.7	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



TEST NUMBER: P248685

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5
2.5°	12718.7	12712.4	12724.8	12724.8	12762.0	12755.6	12774.1	12774.1	12762.0	12768.0	12792.7
5°	12762.0	12780.5	12817.4	12848.4	12903.8	12928.7	12959.4	12990.4	12996.5	13015.1	13033.6
7.5°	12762.0	12823.7	12866.9	12922.3	12996.5	13039.7	13107.6	13163.2	13187.9	13218.6	13255.7
10°	12737.0	12798.8	12879.1	12940.9	13033.6	13101.5	13169.3	13255.7	13292.8	13342.1	13391.7
12.5°	12687.7	12755.6	12842.0	12922.3	13027.3	13089.0	13175.4	13255.7	13311.4	13379.2	13434.9
15°	12613.8	12693.8	12774.1	12854.5	12965.5	13039.7	13120.0	13212.5	13268.2	13342.1	13391.7
17.5°	12496.4	12582.8	12657.0	12730.9	12835.9	12922.3	12996.5	13082.9	13138.6	13200.3	13268.2
20°	12354.3	12434.6	12514.9	12576.7	12681.6	12755.6	12835.9	12916.2	12959.4	12971.9	13076.8
22.5°	12175.4	12230.8	12292.6	12391.4	12453.2	12521.0	12595.2	12669.2	12712.4	12780.5	12817.4
25°	11878.8	11934.5	12002.4	12045.6	12119.8	12175.4	12249.4	12329.7	12354.3	12403.9	12440.7
27.5°	11465.4	11496.1	11527.1	11564.0	11607.2	11638.2	11681.4	11718.5	11743.1	11767.8	11792.4
30°	10810.7	10810.7	10810.7	10786.1	10804.6	10823.2	10829.3	10823.2	10823.2	10817.1	10817.1
32.5°	9946.4	9897.1	9841.5	9792.2	9773.6	9749.0	9736.5	9718.0	9687.2	9668.7	9674.8
35°	8779.5	8668.4	8600.6	8538.8	8489.5	8452.4	8433.8	8415.3	8409.2	8384.5	8359.6
37.5°	7322.5	7242.2	7192.9	7155.8	7112.6	7075.5	7081.6	7088.0	7106.3	7094.1	7100.2
40°	5778.9	5760.4	5778.9	5735.7	5723.3	5735.7	5766.5	5809.9	5834.6	5859.2	5902.4
42.5°	4396.0	4426.7	4470.2	4470.2	4488.5	4513.4	4550.2	4618.3	4655.2	4698.4	4747.9
45°	3309.3	3346.4	3402.1	3420.3	3432.8	3463.6	3507.0	3562.4	3587.1	3624.2	3667.4
47.5°	2550.0	2574.6	2605.4	2636.4	2667.1	2679.6	2722.8	2722.8	2753.8	2778.4	2790.6
50°	1988.1	2012.7	2037.4	2055.9	2068.4	2086.9	2099.1	2117.7	2123.8	2136.2	2142.3
52.5°	1555.8	1586.8	1586.8	1599.0	1617.5	1636.1	1630.0	1636.1	1642.2	1642.2	1660.7
55°	1216.3	1216.3	1234.8	1234.8	1247.3	1240.9	1247.3	1247.3	1247.3	1247.3	1253.4
57.5°	907.5	913.9	932.4	920.0	913.9	926.1	913.9	926.1	920.0	932.4	913.9
60°	697.6	697.6	703.9	703.9	710.0	710.0	710.0	703.9	703.9	697.6	697.6
62.5°	524.8	530.9	537.2	530.9	530.9	530.9	524.8	524.8	518.7	512.3	512.3
65°	352.0	345.9	358.1	345.9	352.0	352.0	345.9	352.0	333.4	339.5	333.4
67.5°	253.1	247.0	240.9	247.0	240.9	234.6	234.6	240.9	247.0	228.5	228.5
70°	166.7	172.8	166.7	172.8	179.2	179.2	172.8	166.7	172.8	160.6	166.7
72.5°	105.0	105.0	105.0	105.0	105.0	111.1	111.1	111.1	98.9	98.9	92.5
75°	49.3	67.9	55.7	49.3	67.9	67.9	61.8	61.8	55.7	55.7	55.7
77.5°	49.3	37.1	37.1	37.1	37.1	37.1	37.1	37.1	30.7	37.1	30.7
80°	24.7	24.7	24.7	18.6	24.7	24.7	30.7	24.7	24.7	18.6	30.7
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: P248685

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5
2.5°	12786.6	12780.5	12786.6	12792.7	12786.6	12780.5	12786.6	12792.7	12768.0	12762.0	12774.1
5°	13058.3	13058.3	13070.5	13076.8	13070.5	13058.3	13058.3	13033.6	13015.1	12996.5	12990.4
7.5°	13292.8	13305.3	13317.5	13323.6	13317.5	13305.3	13292.8	13255.7	13218.6	13187.9	13163.2
10°	13434.9	13453.4	13478.1	13490.3	13478.1	13453.4	13434.9	13391.7	13342.1	13292.8	13255.7
12.5°	13496.6	13515.2	13545.9	13539.8	13545.9	13515.2	13496.6	13434.9	13379.2	13311.4	13255.7
15°	13453.4	13478.1	13508.8	13521.3	13508.8	13478.1	13453.4	13391.7	13342.1	13268.2	13212.5
17.5°	13317.5	13354.6	13373.1	13391.7	13373.1	13354.6	13317.5	13268.2	13200.3	13138.6	13082.9
20°	13132.2	13157.1	13181.8	13187.9	13181.8	13157.1	13132.2	13076.8	12971.9	12959.4	12916.2
22.5°	12866.9	12885.5	12940.9	12922.3	12940.9	12885.5	12866.9	12817.4	12780.5	12712.4	12669.2
25°	12483.9	12502.5	12508.8	12514.9	12508.8	12502.5	12483.9	12440.7	12403.9	12354.3	12329.7
27.5°	11823.4	11823.4	11835.6	11842.0	11835.6	11823.4	11823.4	11792.4	11767.8	11743.1	11718.5
30°	10823.2	10823.2	10823.2	10854.2	10823.2	10823.2	10823.2	10817.1	10817.1	10823.2	10823.2
32.5°	9668.7	9656.2	9644.0	9656.2	9644.0	9656.2	9668.7	9674.8	9668.7	9687.2	9718.0
35°	8359.6	8353.5	8372.1	8347.4	8372.1	8353.5	8359.6	8359.6	8384.5	8409.2	8415.3
37.5°	7106.3	7094.1	7118.7	7094.1	7118.7	7094.1	7106.3	7100.2	7094.1	7106.3	7088.0
40°	5914.9	5927.1	5927.1	5976.7	5927.1	5927.1	5914.9	5902.4	5859.2	5834.6	5809.9
42.5°	4772.6	4809.7	4797.2	4834.3	4797.2	4809.7	4772.6	4747.9	4698.4	4655.2	4618.3
45°	3692.0	3716.9	3716.9	3729.1	3716.9	3716.9	3692.0	3667.4	3624.2	3587.1	3562.4
47.5°	2833.8	2833.8	2833.8	2840.2	2833.8	2833.8	2833.8	2790.6	2778.4	2753.8	2722.8
50°	2154.8	2160.9	2167.2	2173.3	2167.2	2160.9	2154.8	2142.3	2136.2	2123.8	2117.7
52.5°	1654.6	1660.7	1648.5	1660.7	1648.5	1660.7	1654.6	1660.7	1642.2	1642.2	1636.1
55°	1253.4	1247.3	1253.4	1259.5	1253.4	1247.3	1253.4	1253.4	1247.3	1247.3	1247.3
57.5°	920.0	907.5	907.5	907.5	907.5	907.5	920.0	913.9	932.4	920.0	926.1
60°	685.4	691.5	691.5	697.6	691.5	691.5	685.4	697.6	697.6	703.9	703.9
62.5°	506.2	524.8	512.3	524.8	512.3	524.8	506.2	512.3	512.3	518.7	524.8
65°	327.3	327.3	327.3	333.4	327.3	327.3	327.3	333.4	339.5	333.4	352.0
67.5°	222.4	228.5	240.9	234.6	240.9	228.5	222.4	228.5	228.5	247.0	240.9
70°	179.2	160.6	160.6	179.2	160.6	160.6	179.2	166.7	160.6	172.8	166.7
72.5°	105.0	92.5	105.0	105.0	105.0	92.5	105.0	92.5	98.9	98.9	111.1
75°	55.7	49.3	43.2	61.8	43.2	49.3	55.7	55.7	55.7	55.7	61.8
77.5°	37.1	30.7	43.2	43.2	43.2	30.7	37.1	30.7	37.1	30.7	37.1
80°	18.6	24.7	18.6	30.7	18.6	24.7	18.6	30.7	18.6	24.7	24.7
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: P248685

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5
2.5°	12774.1	12755.6	12762.0	12724.8	12724.8	12712.4	12718.7	12687.7	12675.5	12663.1	12681.6
5°	12959.4	12928.7	12903.8	12848.4	12817.4	12780.5	12762.0	12712.4	12669.2	12632.1	12626.0
7.5°	13107.6	13039.7	12996.5	12922.3	12866.9	12823.7	12762.0	12693.8	12638.4	12588.9	12552.0
10°	13169.3	13101.5	13033.6	12940.9	12879.1	12798.8	12737.0	12650.6	12576.7	12508.8	12465.4
12.5°	13175.4	13089.0	13027.3	12922.3	12842.0	12755.6	12687.7	12588.9	12502.5	12434.6	12366.8
15°	13120.0	13039.7	12965.5	12854.5	12774.1	12693.8	12613.8	12508.8	12428.5	12348.2	12298.9
17.5°	12996.5	12922.3	12835.9	12730.9	12657.0	12582.8	12496.4	12410.0	12317.2	12230.8	12169.1
20°	12835.9	12755.6	12681.6	12576.7	12514.9	12434.6	12354.3	12261.8	12187.6	12101.2	12033.4
22.5°	12595.2	12521.0	12453.2	12391.4	12292.6	12230.8	12175.4	12070.5	11996.3	11915.9	11842.0
25°	12249.4	12175.4	12119.8	12045.6	12002.4	11934.5	11878.8	11786.3	11718.5	11644.3	11582.5
27.5°	11681.4	11638.2	11607.2	11564.0	11527.1	11496.1	11465.4	11391.2	11341.9	11274.0	11212.3
30°	10829.3	10823.2	10804.6	10786.1	10810.7	10810.7	10810.7	10798.5	10755.3	10705.8	10662.6
32.5°	9736.5	9749.0	9773.6	9792.2	9841.5	9897.1	9946.4	9971.1	9971.1	9940.3	9921.8
35°	8433.8	8452.4	8489.5	8538.8	8600.6	8668.4	8779.5	8804.4	8822.7	8822.7	8798.0
37.5°	7081.6	7075.5	7112.6	7155.8	7192.9	7242.2	7322.5	7341.1	7371.8	7359.6	7334.7
40°	5766.5	5735.7	5723.3	5735.7	5778.9	5760.4	5778.9	5766.5	5766.5	5723.3	5723.3
42.5°	4550.2	4513.4	4488.5	4470.2	4470.2	4426.7	4396.0	4365.2	4346.7	4315.7	4309.6
45°	3507.0	3463.6	3432.8	3420.3	3402.1	3346.4	3309.3	3272.2	3229.0	3216.8	3222.9
47.5°	2722.8	2679.6	2667.1	2636.4	2605.4	2574.6	2550.0	2506.7	2500.4	2475.7	2500.4
50°	2099.1	2086.9	2068.4	2055.9	2037.4	2012.7	1988.1	1963.4	1951.0	1951.0	1957.1
52.5°	1630.0	1636.1	1617.5	1599.0	1586.8	1586.8	1555.8	1549.7	1549.7	1525.0	1549.7
55°	1247.3	1240.9	1247.3	1234.8	1234.8	1216.3	1216.3	1197.7	1197.7	1179.2	1191.6
57.5°	913.9	926.1	913.9	920.0	932.4	913.9	907.5	889.0	901.4	889.0	895.3
60°	710.0	710.0	710.0	703.9	703.9	697.6	697.6	691.5	691.5	679.0	691.5
62.5°	524.8	530.9	530.9	530.9	537.2	530.9	524.8	530.9	524.8	524.8	530.9
65°	345.9	352.0	352.0	345.9	358.1	345.9	352.0	358.1	364.2	358.1	364.2
67.5°	234.6	234.6	240.9	247.0	240.9	247.0	253.1	247.0	253.1	265.6	253.1
70°	172.8	179.2	179.2	172.8	166.7	172.8	166.7	185.3	185.3	185.3	197.5
72.5°	111.1	111.1	105.0	105.0	105.0	105.0	105.0	123.5	111.1	105.0	117.4
75°	61.8	67.9	67.9	49.3	55.7	67.9	49.3	55.7	74.2	61.8	74.2
77.5°	37.1	37.1	37.1	37.1	37.1	37.1	49.3	43.2	43.2	43.2	49.3
80°	30.7	24.7	24.7	18.6	24.7	24.7	24.7	37.1	30.7	30.7	37.1
82.5°	12.5	12.5	6.1	0.0	12.5	12.5	12.5	12.5	12.5	12.5	24.7
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: P248685

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5
2.5°	12632.1	12632.1	12626.0	12613.8	12588.9	12588.9	12582.8	12564.2	12552.0	12545.7	12545.7
5°	12570.3	12545.7	12521.0	12453.2	12453.2	12440.7	12403.9	12379.0	12366.8	12335.8	12323.6
7.5°	12514.9	12440.7	12397.5	12354.3	12298.9	12274.0	12230.8	12212.3	12169.1	12138.3	12119.8
10°	12379.0	12329.7	12274.0	12206.2	12163.0	12113.7	12064.1	12027.3	11971.6	11940.6	11915.9
12.5°	12286.5	12212.3	12163.0	12088.8	12014.8	11971.6	11903.7	11860.5	11804.9	11743.1	11706.0
15°	12200.1	12119.8	12051.9	11971.6	11891.3	11842.0	11761.7	11712.4	11632.1	11570.3	11527.1
17.5°	12070.5	12002.4	11928.4	11829.5	11755.6	11693.8	11607.2	11545.7	11471.5	11391.2	11348.0
20°	11934.5	11854.2	11780.2	11681.4	11607.2	11533.2	11446.8	11379.0	11292.3	11218.4	11169.1
22.5°	11755.6	11662.8	11601.1	11502.2	11415.8	11335.8	11255.5	11175.2	11094.9	11033.1	10977.4
25°	11496.1	11397.3	11329.4	11249.1	11169.1	11107.3	11008.4	10959.1	10878.8	10823.2	10767.5
27.5°	11125.6	11051.6	10989.9	10909.6	10841.7	10792.4	10718.2	10668.9	10600.8	10551.5	10508.3
30°	10582.5	10520.8	10465.1	10384.8	10335.5	10292.3	10224.2	10181.0	10131.7	10076.0	10063.8
32.5°	9853.9	9804.4	9749.0	9693.3	9656.2	9631.6	9575.9	9551.3	9502.0	9471.0	9440.2
35°	8754.8	8711.6	8680.9	8656.2	8643.8	8649.9	8637.7	8662.3	8674.5	8668.4	8674.5
37.5°	7316.4	7291.5	7304.0	7322.5	7384.3	7464.6	7538.5	7649.6	7723.8	7798.0	7865.9
40°	5711.1	5729.6	5778.9	5890.0	6050.6	6229.8	6396.5	6606.4	6816.3	6964.5	7100.2
42.5°	4309.6	4365.2	4488.5	4649.1	4890.0	5155.3	5414.8	5723.3	5976.7	6223.4	6396.5
45°	3241.4	3315.4	3476.0	3698.4	3963.7	4272.5	4599.8	4945.4	5248.1	5501.2	5692.5
47.5°	2525.3	2593.2	2753.8	2988.3	3315.4	3636.6	3976.1	4334.2	4649.1	4896.1	5062.8
50°	1994.2	2080.6	2222.6	2469.6	2797.0	3136.5	3488.5	3840.2	4136.7	4346.7	4494.8
52.5°	1568.2	1648.5	1784.3	2043.7	2377.1	2716.7	3043.7	3389.6	3648.8	3852.6	3951.5
55°	1216.3	1290.5	1432.3	1648.5	1963.4	2296.8	2623.9	2920.5	3161.1	3309.3	3402.1
57.5°	926.1	981.7	1080.6	1296.6	1580.7	1889.2	2167.2	2463.5	2648.8	2753.8	2815.3
60°	703.9	747.1	852.1	1018.8	1278.0	1543.6	1778.2	2000.5	2148.7	2235.1	2296.8
62.5°	530.9	580.4	654.4	796.4	993.9	1210.2	1407.6	1574.3	1697.8	1753.5	1796.7
65°	364.2	401.3	456.9	568.0	734.7	889.0	1043.5	1167.0	1247.3	1309.0	1333.7
67.5°	271.7	296.3	327.3	413.7	530.9	654.4	759.3	845.7	932.4	957.1	1000.3
70°	203.8	222.4	253.1	314.9	382.7	469.1	555.8	605.1	666.8	710.0	722.5
72.5°	129.6	135.7	166.7	203.8	259.2	314.9	370.5	413.7	450.8	475.5	487.7
75°	74.2	111.1	111.1	148.2	185.3	209.9	247.0	277.8	296.3	314.9	314.9
77.5°	49.3	67.9	74.2	92.5	111.1	142.1	172.8	191.4	209.9	216.0	216.0
80°	43.2	49.3	49.3	67.9	80.3	105.0	123.5	129.6	142.1	148.2	160.6
82.5°	18.6	24.7	30.7	49.3	55.7	55.7	74.2	80.3	92.5	98.9	98.9
85°	6.1	12.5	12.5	18.6	30.7	37.1	43.2	49.3	55.7	55.7	61.8
87.5°	6.1	6.1	0.0	6.1	12.5	12.5	24.7	24.7	24.7	37.1	37.1
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: P248685

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5	12644.5
2.5°	12533.5	12539.6	12514.9	12508.8	12496.4	12502.5	12514.9
5°	12305.0	12311.1	12286.5	12261.8	12261.8	12255.5	12261.8
7.5°	12088.8	12095.1	12058.0	12045.6	12020.9	12027.3	12027.3
10°	11872.7	11872.7	11817.3	11811.0	11792.4	11786.3	11786.3
12.5°	11662.8	11644.3	11601.1	11576.4	11588.9	11551.8	11551.8
15°	11477.6	11446.8	11391.2	11372.6	11341.9	11329.4	11329.4
17.5°	11286.2	11261.6	11212.3	11175.2	11138.1	11132.0	11138.1
20°	11101.0	11076.3	11014.5	10989.9	10959.1	10959.1	10946.7
22.5°	10915.7	10891.0	10835.6	10817.1	10773.9	10773.9	10780.0
25°	10724.3	10705.8	10644.0	10631.8	10625.7	10600.8	10613.3
27.5°	10465.1	10452.7	10403.4	10384.8	10360.2	10354.1	10366.3
30°	9989.6	9971.1	9934.2	9915.7	9872.5	9878.6	9890.8
32.5°	9397.0	9372.4	9322.8	9304.2	9267.4	9254.9	9261.0
35°	8656.2	8637.7	8594.5	8594.5	8557.4	8544.9	8557.4
37.5°	7903.0	7921.3	7903.0	7921.3	7903.0	7896.6	7903.0
40°	7192.9	7260.8	7273.0	7341.1	7316.4	7353.3	7347.2
42.5°	6513.6	6624.7	6668.1	6723.5	6711.3	6736.0	6754.5
45°	5828.2	5921.0	5964.2	6001.3	6007.4	6019.9	6026.0
47.5°	5180.0	5254.2	5260.3	5303.5	5297.4	5297.4	5315.9
50°	4575.1	4624.4	4636.6	4667.6	4643.0	4630.5	4636.6
52.5°	4013.2	4062.5	4050.1	4062.5	4031.8	4019.3	4025.4
55°	3438.9	3463.6	3463.6	3463.6	3426.7	3426.7	3426.7
57.5°	2852.4	2858.7	2846.3	2852.4	2846.3	2809.2	2803.1
60°	2315.4	2315.4	2309.0	2315.4	2296.8	2278.3	2278.3
62.5°	1808.9	1821.4	1846.0	1821.4	1808.9	1821.4	1802.8
65°	1352.2	1376.9	1370.5	1383.0	1376.9	1376.9	1364.4
67.5°	1018.8	1024.9	1031.0	1037.4	1037.4	1037.4	1037.4
70°	747.1	765.7	759.3	759.3	759.3	759.3	796.4
72.5°	500.1	524.8	518.7	530.9	530.9	543.3	530.9
75°	339.5	364.2	352.0	370.5	364.2	352.0	382.7
77.5°	228.5	240.9	247.0	253.1	247.0	240.9	247.0
80°	160.6	172.8	166.7	172.8	172.8	172.8	179.2
82.5°	98.9	117.4	111.1	117.4	111.1	117.4	117.4
85°	67.9	74.2	61.8	74.2	67.9	67.9	80.3
87.5°	43.2	37.1	37.1	43.2	37.1	43.2	37.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)