

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: P248991

Luminaire Tested: **LD8B200D010 ER8B200830 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248991
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20580.0 lumens
Efficiency: N/A
Efficacy: 92.2 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

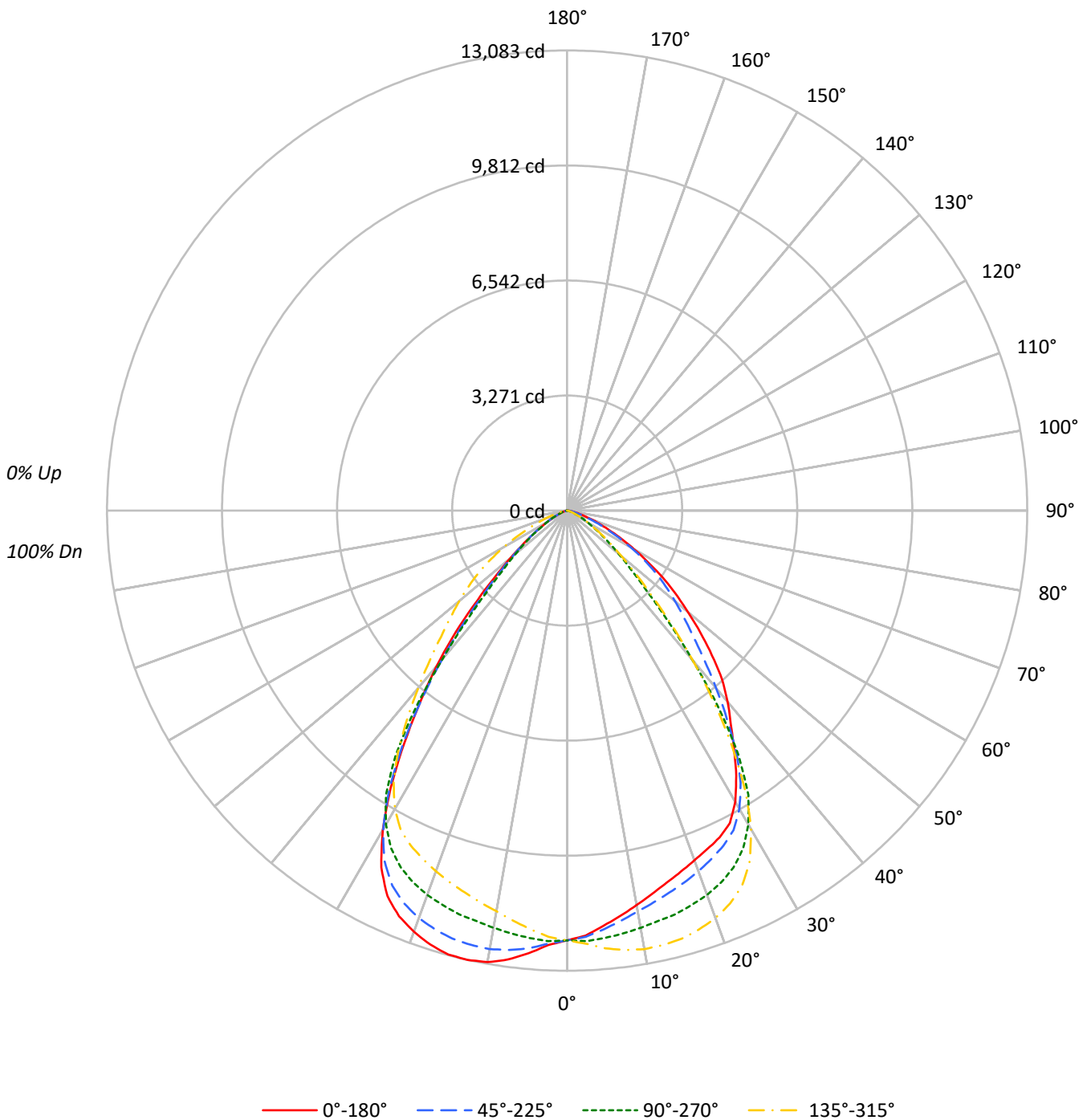
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248991

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P248991

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0MW

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°	376749	376749	376749	376749
5°	366741	377634	391117	377634
10°	356597	377141	408149	377141
15°	349473	379376	417082	379376
20°	347094	381547	418156	381547
25°	348917	380781	411437	380781
30°	340290	366842	373436	366842
35°	311261	320013	303627	320013
40°	285771	222608	232463	222608
45°	253914	135803	157132	135803
50°	214923	90717	100743	90717
55°	178004	61901	65428	61901
60°	135766	41203	41567	41203
65°	96197	25676	23509	25676
70°	69387	17202	15607	17202
75°	44059	8543	7113	8543
80°	30739	6375	5274	6375
85°	27455	0	2087	0



TEST NUMBER: P248991

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1162.9	5.7
10°-20°	3367.5	16.4
20°-30°	5099.1	24.8
30°-40°	5110.6	24.8
40°-50°	3209.2	15.6
50°-60°	1710.2	8.3
60°-70°	703.3	3.4
70°-80°	185.8	0.9
80°-90°	31.4	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°	9629.6	46.8
0°-40°	14740.2	71.6
0°-60°	19659.5	95.5
0°-90°	20580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20580.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12218	12218	12218	12218	12218	
5°	11848	12200	12635	12200	11848	###
15°	10947	11884	13065	11884	10947	3096
25°	10255	11192	12092	11192	10255	4703
35°	8268	8501	8066	8501	8268	5180
45°	5822	3114	3603	3114	5822	4478
55°	3311	1151	1217	1151	3311	2952
65°	1318	352	322	352	1318	1368
75°	370	72	60	72	370	419
85°	78	0	6	0	78	85
90°	0	0	0	0	0	



TEST NUMBER: P248991

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7
2.5°	12092.5	12080.4	12074.5	12086.6	12092.5	12116.3	12110.4	12122.2	12122.2	12128.3	12140.1
5°	11847.9	11841.8	11847.9	11847.9	11871.7	11895.5	11889.6	11907.6	11919.3	11949.3	11961.1
7.5°	11621.2	11621.2	11615.1	11638.9	11651.0	11686.8	11680.7	11710.6	11728.6	11758.3	11800.0
10°	11388.5	11388.5	11394.4	11412.3	11418.4	11472.0	11472.0	11513.7	11537.5	11567.5	11621.2
12.5°	11161.8	11161.8	11197.7	11185.6	11209.5	11251.2	11269.1	11310.9	11346.7	11406.4	11460.2
15°	10947.0	10947.0	10959.0	10988.7	11006.6	11060.4	11090.1	11138.0	11179.7	11239.4	11317.0
17.5°	10762.1	10756.2	10762.1	10797.9	10833.8	10881.4	10905.2	10964.9	11006.6	11084.2	11155.9
20°	10577.2	10589.2	10589.2	10618.9	10642.7	10702.4	10726.2	10792.0	10839.7	10911.1	10994.8
22.5°	10416.1	10410.2	10410.2	10451.9	10469.9	10523.4	10547.2	10606.9	10660.6	10720.3	10797.9
25°	10255.0	10243.0	10267.0	10272.9	10284.7	10344.4	10362.3	10404.0	10457.8	10511.6	10589.2
27.5°	10016.3	10004.5	10010.4	10034.2	10052.2	10099.8	10111.8	10153.6	10195.3	10243.0	10308.8
30°	9556.9	9545.1	9539.2	9581.0	9598.9	9634.5	9652.4	9724.1	9735.9	9789.7	9837.3
32.5°	8948.4	8942.5	8954.6	8990.2	9008.1	9056.0	9079.8	9121.5	9151.2	9181.2	9228.8
35°	8268.5	8256.4	8268.5	8304.3	8304.3	8346.1	8364.0	8381.7	8375.8	8381.7	8369.9
37.5°	7636.2	7630.0	7636.2	7653.9	7636.2	7653.9	7636.2	7600.3	7534.8	7463.1	7391.4
40°	7099.2	7105.1	7069.4	7093.3	7027.5	7015.7	6950.1	6860.5	6729.4	6586.2	6383.4
42.5°	6526.5	6508.6	6484.8	6496.6	6443.0	6401.1	6293.7	6180.5	6013.3	5774.9	5530.1
45°	5822.5	5816.6	5804.6	5798.7	5762.9	5721.1	5631.5	5500.4	5315.5	5070.9	4778.4
47.5°	5136.5	5118.5	5118.5	5124.4	5082.7	5076.8	5005.1	4891.9	4730.8	4492.1	4187.9
50°	4480.1	4474.2	4486.2	4510.1	4480.1	4468.3	4420.7	4343.1	4199.9	3997.1	3710.5
52.5°	3889.5	3883.7	3895.7	3925.4	3913.4	3925.4	3877.8	3818.1	3722.6	3525.6	3275.2
55°	3311.0	3311.0	3311.0	3346.6	3346.6	3346.6	3322.8	3287.2	3197.6	3054.4	2821.9
57.5°	2708.4	2714.3	2750.2	2756.1	2750.2	2762.2	2756.1	2720.2	2660.8	2559.4	2380.4
60°	2201.4	2201.4	2219.3	2237.2	2231.1	2237.2	2237.2	2219.3	2159.6	2076.1	1933.0
62.5°	1741.9	1759.9	1747.8	1759.9	1783.7	1759.9	1747.8	1736.1	1694.3	1640.5	1521.2
65°	1318.4	1330.4	1330.4	1336.3	1324.3	1330.4	1306.6	1288.7	1264.8	1205.2	1127.6
67.5°	1002.3	1002.3	1002.3	1002.3	996.2	990.3	984.4	966.5	924.7	900.9	817.2
70°	769.6	733.7	733.7	733.7	733.7	739.8	721.9	698.1	686.1	644.3	584.7
72.5°	513.0	525.0	513.0	513.0	501.2	507.1	483.2	471.2	459.4	435.6	399.8
75°	369.8	340.1	351.9	358.0	340.1	351.9	328.1	304.2	304.2	286.3	268.4
77.5°	238.7	232.8	238.7	244.6	238.7	232.8	220.8	208.7	208.7	202.8	184.9
80°	173.1	167.0	167.0	167.0	161.1	167.0	155.2	155.2	143.2	137.3	125.2
82.5°	113.4	113.4	107.3	113.4	107.3	113.4	95.5	95.5	95.5	89.4	77.6
85°	77.6	65.6	65.6	71.7	59.7	71.7	65.6	59.7	53.8	53.8	47.6
87.5°	35.9	41.7	35.9	41.7	35.9	35.9	41.7	35.9	35.9	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248991

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7
2.5°	12158.0	12163.9	12163.9	12188.0	12199.8	12205.7	12205.7	12253.5	12235.6	12247.7	12259.4
5°	11985.2	12020.8	12032.8	12032.8	12098.4	12122.2	12146.0	12199.8	12205.7	12241.5	12283.3
7.5°	11817.9	11859.7	11883.7	11937.3	11979.0	12020.8	12092.5	12128.3	12163.9	12211.8	12265.3
10°	11656.9	11704.7	11752.4	11794.1	11859.7	11913.5	11961.1	12044.6	12086.6	12152.1	12223.6
12.5°	11501.9	11567.5	11609.2	11680.7	11752.4	11800.0	11871.7	11949.3	12014.9	12080.4	12163.9
15°	11364.6	11442.2	11489.9	11567.5	11645.1	11710.6	11788.2	11883.7	11931.4	12009.0	12086.6
17.5°	11215.4	11299.1	11358.8	11430.2	11525.7	11597.2	11663.0	11758.3	11817.9	11901.4	11991.0
20°	11060.4	11143.9	11215.4	11287.1	11382.6	11454.0	11531.6	11627.1	11692.7	11776.2	11847.9
22.5°	10875.5	10953.1	11030.4	11113.9	11209.5	11269.1	11358.8	11442.2	11513.7	11591.3	11663.0
25°	10636.8	10732.3	10792.0	10869.4	10947.0	11012.5	11108.0	11191.5	11251.2	11322.9	11388.5
27.5°	10356.4	10428.1	10475.7	10541.3	10618.9	10678.6	10750.0	10833.8	10893.4	10959.0	11006.6
30°	9879.1	9944.9	9986.6	10034.2	10111.8	10165.6	10225.3	10302.6	10344.4	10392.3	10434.0
32.5°	9252.7	9306.4	9330.2	9366.1	9419.9	9473.4	9521.3	9586.8	9604.8	9634.5	9634.5
35°	8346.1	8357.9	8352.0	8364.0	8387.8	8417.5	8459.3	8501.0	8524.8	8524.8	8507.2
37.5°	7284.1	7212.6	7135.0	7075.3	7057.4	7045.4	7069.4	7087.1	7111.2	7123.0	7093.3
40°	6180.5	6019.5	5846.4	5691.2	5583.9	5536.2	5518.3	5530.1	5530.1	5571.8	5571.8
42.5°	5232.0	4981.3	4724.9	4492.1	4336.9	4217.8	4164.1	4164.1	4170.0	4199.9	4217.8
45°	4444.5	4128.2	3829.9	3573.5	3358.7	3203.5	3132.0	3114.1	3108.2	3120.0	3161.7
47.5°	3841.9	3513.9	3203.5	2887.4	2660.8	2505.6	2440.1	2416.0	2392.2	2416.0	2422.1
50°	3370.7	3030.6	2702.5	2386.3	2147.6	2010.3	1926.8	1891.0	1885.1	1885.1	1897.1
52.5°	2941.0	2625.0	2296.9	1974.7	1724.0	1592.9	1515.3	1497.4	1473.6	1497.4	1497.4
55°	2535.3	2219.3	1897.1	1592.9	1383.9	1246.9	1175.2	1151.4	1139.4	1157.3	1157.3
57.5°	2094.1	1825.4	1527.3	1252.8	1044.1	948.6	894.8	865.1	858.9	871.0	858.9
60°	1718.1	1491.5	1234.9	984.4	823.3	721.9	680.2	668.1	656.1	668.1	668.1
62.5°	1360.1	1169.3	960.4	769.6	632.3	560.8	513.0	513.0	507.1	507.1	513.0
65°	1008.2	858.9	709.9	548.8	441.5	387.7	351.9	351.9	346.0	351.9	346.0
67.5°	733.7	632.3	513.0	399.8	316.3	286.3	262.5	244.6	256.6	244.6	238.7
70°	537.0	453.3	369.8	304.2	244.6	214.9	196.9	190.8	179.0	179.0	179.0
72.5°	358.0	304.2	250.5	196.9	161.1	131.1	125.2	113.4	101.4	107.3	119.3
75°	238.7	202.8	179.0	143.2	107.3	107.3	71.7	71.7	59.7	71.7	53.8
77.5°	167.0	137.3	107.3	89.4	71.7	65.6	47.6	47.6	41.7	41.7	41.7
80°	119.3	101.4	77.6	65.6	47.6	47.6	41.7	35.9	29.7	29.7	35.9
82.5°	71.7	53.8	53.8	47.6	29.7	23.8	17.9	23.8	12.0	12.0	12.0
85°	41.7	35.9	29.7	17.9	12.0	12.0	5.9	0.0	5.9	5.9	0.0
87.5°	23.8	12.0	12.0	5.9	0.0	5.9	5.9	0.0	0.0	0.0	12.0
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: P248991

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7
2.5°	12289.4	12283.3	12295.3	12295.3	12331.1	12325.0	12342.9	12342.9	12331.1	12337.0	12360.9
5°	12331.1	12349.1	12384.7	12414.6	12468.2	12492.2	12521.9	12551.9	12557.8	12575.7	12593.6
7.5°	12331.1	12390.8	12432.6	12486.1	12557.8	12599.5	12665.1	12718.9	12742.7	12772.4	12808.2
10°	12307.1	12366.7	12444.3	12504.0	12593.6	12659.2	12724.8	12808.2	12844.1	12891.7	12939.6
12.5°	12259.4	12325.0	12408.5	12486.1	12587.5	12647.2	12730.7	12808.2	12862.0	12927.6	12981.4
15°	12188.0	12265.3	12342.9	12420.5	12527.8	12599.5	12677.1	12766.5	12820.3	12891.7	12939.6
17.5°	12074.5	12158.0	12229.7	12301.2	12402.6	12486.1	12557.8	12641.3	12695.0	12754.7	12820.3
20°	11937.3	12014.9	12092.5	12152.1	12253.5	12325.0	12402.6	12480.2	12521.9	12534.0	12635.4
22.5°	11764.4	11817.9	11877.6	11973.1	12032.8	12098.4	12170.1	12241.5	12283.3	12349.1	12384.7
25°	11477.8	11531.6	11597.2	11638.9	11710.6	11764.4	11835.9	11913.5	11937.3	11985.2	12020.8
27.5°	11078.3	11108.0	11138.0	11173.6	11215.4	11245.3	11287.1	11322.9	11346.7	11370.5	11394.4
30°	10445.8	10445.8	10445.8	10422.0	10439.9	10457.8	10463.7	10457.8	10457.8	10451.9	10451.9
32.5°	9610.7	9563.0	9509.3	9461.6	9443.7	9419.9	9407.8	9389.9	9360.2	9342.3	9348.2
35°	8483.1	8375.8	8310.2	8250.6	8202.9	8167.1	8149.1	8131.2	8125.3	8101.5	8077.4
37.5°	7075.3	6997.7	6950.1	6914.3	6872.5	6836.7	6842.6	6848.7	6866.4	6854.6	6860.5
40°	5583.9	5565.9	5583.9	5542.1	5530.1	5542.1	5571.8	5613.8	5637.6	5661.5	5703.2
42.5°	4247.6	4277.3	4319.3	4319.3	4336.9	4361.0	4396.6	4462.4	4498.0	4539.8	4587.7
45°	3197.6	3233.4	3287.2	3304.9	3316.9	3346.6	3388.6	3442.2	3466.0	3501.8	3543.6
47.5°	2463.9	2487.7	2517.4	2547.4	2577.1	2589.1	2630.8	2630.8	2660.8	2684.6	2696.4
50°	1921.0	1944.8	1968.6	1986.5	1998.5	2016.5	2028.3	2046.2	2052.1	2064.1	2070.0
52.5°	1503.3	1533.2	1533.2	1545.0	1562.9	1580.9	1575.0	1580.9	1586.8	1586.8	1604.7
55°	1175.2	1175.2	1193.1	1193.1	1205.2	1199.0	1205.2	1205.2	1205.2	1205.2	1211.1
57.5°	876.9	883.0	900.9	888.9	883.0	894.8	883.0	894.8	888.9	900.9	883.0
60°	674.0	674.0	680.2	680.2	686.1	686.1	686.1	680.2	680.2	674.0	674.0
62.5°	507.1	513.0	519.1	513.0	513.0	513.0	507.1	507.1	501.2	495.0	495.0
65°	340.1	334.2	346.0	334.2	340.1	340.1	334.2	340.1	322.2	328.1	322.2
67.5°	244.6	238.7	232.8	238.7	232.8	226.6	226.6	232.8	238.7	220.8	220.8
70°	161.1	167.0	161.1	167.0	173.1	173.1	167.0	161.1	167.0	155.2	161.1
72.5°	101.4	101.4	101.4	101.4	101.4	107.3	107.3	107.3	95.5	95.5	89.4
75°	47.6	65.6	53.8	47.6	65.6	65.6	59.7	59.7	53.8	53.8	53.8
77.5°	47.6	35.9	35.9	35.9	35.9	35.9	35.9	35.9	29.7	35.9	29.7
80°	23.8	23.8	23.8	17.9	23.8	23.8	29.7	23.8	23.8	17.9	29.7
82.5°	12.0	12.0	12.0	0.0	5.9	12.0	12.0	5.9	12.0	12.0	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: P248991

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7
2.5°	12355.0	12349.1	12355.0	12360.9	12355.0	12349.1	12355.0	12360.9	12337.0	12331.1	12342.9
5°	12617.5	12617.5	12629.2	12635.4	12629.2	12617.5	12617.5	12593.6	12575.7	12557.8	12551.9
7.5°	12844.1	12856.1	12867.9	12873.8	12867.9	12856.1	12844.1	12808.2	12772.4	12742.7	12718.9
10°	12981.4	12999.3	13023.1	13034.9	13023.1	12999.3	12981.4	12939.6	12891.7	12844.1	12808.2
12.5°	13041.0	13059.0	13088.7	13082.8	13088.7	13059.0	13041.0	12981.4	12927.6	12862.0	12808.2
15°	12999.3	13023.1	13052.8	13064.8	13052.8	13023.1	12999.3	12939.6	12891.7	12820.3	12766.5
17.5°	12867.9	12903.8	12921.7	12939.6	12921.7	12903.8	12867.9	12820.3	12754.7	12695.0	12641.3
20°	12688.9	12713.0	12736.8	12742.7	12736.8	12713.0	12688.9	12635.4	12534.0	12521.9	12480.2
22.5°	12432.6	12450.5	12504.0	12486.1	12504.0	12450.5	12432.6	12384.7	12349.1	12283.3	12241.5
25°	12062.5	12080.4	12086.6	12092.5	12086.6	12080.4	12062.5	12020.8	11985.2	11937.3	11913.5
27.5°	11424.3	11424.3	11436.1	11442.2	11436.1	11424.3	11424.3	11394.4	11370.5	11346.7	11322.9
30°	10457.8	10457.8	10457.8	10487.8	10457.8	10457.8	10457.8	10451.9	10451.9	10457.8	10457.8
32.5°	9342.3	9330.2	9318.5	9330.2	9318.5	9330.2	9342.3	9348.2	9342.3	9360.2	9389.9
35°	8077.4	8071.5	8089.5	8065.7	8089.5	8071.5	8077.4	8077.4	8101.5	8125.3	8131.2
37.5°	6866.4	6854.6	6878.4	6854.6	6878.4	6854.6	6866.4	6860.5	6854.6	6866.4	6848.7
40°	5715.2	5727.0	5727.0	5774.9	5727.0	5727.0	5715.2	5703.2	5661.5	5637.6	5613.8
42.5°	4611.5	4647.3	4635.3	4671.1	4635.3	4647.3	4611.5	4587.7	4539.8	4498.0	4462.4
45°	3567.4	3591.4	3591.4	3603.2	3591.4	3591.4	3567.4	3543.6	3501.8	3466.0	3442.2
47.5°	2738.2	2738.2	2738.2	2744.3	2738.2	2738.2	2738.2	2696.4	2684.6	2660.8	2630.8
50°	2082.0	2087.9	2094.1	2100.0	2094.1	2087.9	2082.0	2070.0	2064.1	2052.1	2046.2
52.5°	1598.8	1604.7	1592.9	1604.7	1592.9	1604.7	1598.8	1604.7	1586.8	1586.8	1580.9
55°	1211.1	1205.2	1211.1	1217.0	1211.1	1205.2	1211.1	1211.1	1205.2	1205.2	1205.2
57.5°	888.9	876.9	876.9	876.9	876.9	876.9	888.9	883.0	900.9	888.9	894.8
60°	662.3	668.1	668.1	674.0	668.1	668.1	662.3	674.0	674.0	680.2	680.2
62.5°	489.1	507.1	495.0	507.1	495.0	507.1	489.1	495.0	495.0	501.2	507.1
65°	316.3	316.3	316.3	322.2	316.3	316.3	316.3	322.2	328.1	322.2	340.1
67.5°	214.9	220.8	232.8	226.6	232.8	220.8	214.9	220.8	220.8	238.7	232.8
70°	173.1	155.2	155.2	173.1	155.2	155.2	173.1	161.1	155.2	167.0	161.1
72.5°	101.4	89.4	101.4	101.4	101.4	89.4	101.4	89.4	95.5	95.5	107.3
75°	53.8	47.6	41.7	59.7	41.7	47.6	53.8	53.8	53.8	53.8	59.7
77.5°	35.9	29.7	41.7	41.7	41.7	29.7	35.9	29.7	35.9	29.7	35.9
80°	17.9	23.8	17.9	29.7	17.9	23.8	17.9	29.7	17.9	23.8	23.8
82.5°	5.9	12.0	12.0	12.0	12.0	12.0	5.9	5.9	12.0	12.0	5.9
85°	0.0	12.0	5.9	5.9	5.9	12.0	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: P248991

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7
2.5°	12342.9	12325.0	12331.1	12295.3	12295.3	12283.3	12289.4	12259.4	12247.7	12235.6	12253.5
5°	12521.9	12492.2	12468.2	12414.6	12384.7	12349.1	12331.1	12283.3	12241.5	12205.7	12199.8
7.5°	12665.1	12599.5	12557.8	12486.1	12432.6	12390.8	12331.1	12265.3	12211.8	12163.9	12128.3
10°	12724.8	12659.2	12593.6	12504.0	12444.3	12366.7	12307.1	12223.6	12152.1	12086.6	12044.6
12.5°	12730.7	12647.2	12587.5	12486.1	12408.5	12325.0	12259.4	12163.9	12080.4	12014.9	11949.3
15°	12677.1	12599.5	12527.8	12420.5	12342.9	12265.3	12188.0	12086.6	12009.0	11931.4	11883.7
17.5°	12557.8	12486.1	12402.6	12301.2	12229.7	12158.0	12074.5	11991.0	11901.4	11817.9	11758.3
20°	12402.6	12325.0	12253.5	12152.1	12092.5	12014.9	11937.3	11847.9	11776.2	11692.7	11627.1
22.5°	12170.1	12098.4	12032.8	11973.1	11877.6	11817.9	11764.4	11663.0	11591.3	11513.7	11442.2
25°	11835.9	11764.4	11710.6	11638.9	11597.2	11531.6	11477.8	11388.5	11322.9	11251.2	11191.5
27.5°	11287.1	11245.3	11215.4	11173.6	11138.0	11108.0	11078.3	11006.6	10959.0	10893.4	10833.8
30°	10463.7	10457.8	10439.9	10422.0	10445.8	10445.8	10445.8	10434.0	10392.3	10344.4	10302.6
32.5°	9407.8	9419.9	9443.7	9461.6	9509.3	9563.0	9610.7	9634.5	9634.5	9604.8	9586.8
35°	8149.1	8167.1	8202.9	8250.6	8310.2	8375.8	8483.1	8507.2	8524.8	8524.8	8501.0
37.5°	6842.6	6836.7	6872.5	6914.3	6950.1	6997.7	7075.3	7093.3	7123.0	7111.2	7087.1
40°	5571.8	5542.1	5530.1	5542.1	5583.9	5565.9	5583.9	5571.8	5571.8	5530.1	5530.1
42.5°	4396.6	4361.0	4336.9	4319.3	4319.3	4277.3	4247.6	4217.8	4199.9	4170.0	4164.1
45°	3388.6	3346.6	3316.9	3304.9	3287.2	3233.4	3197.6	3161.7	3120.0	3108.2	3114.1
47.5°	2630.8	2589.1	2577.1	2547.4	2517.4	2487.7	2463.9	2422.1	2416.0	2392.2	2416.0
50°	2028.3	2016.5	1998.5	1986.5	1968.6	1944.8	1921.0	1897.1	1885.1	1885.1	1891.0
52.5°	1575.0	1580.9	1562.9	1545.0	1533.2	1533.2	1503.3	1497.4	1497.4	1473.6	1497.4
55°	1205.2	1199.0	1205.2	1193.1	1193.1	1175.2	1175.2	1157.3	1157.3	1139.4	1151.4
57.5°	883.0	894.8	883.0	888.9	900.9	883.0	876.9	858.9	871.0	858.9	865.1
60°	686.1	686.1	686.1	680.2	680.2	674.0	674.0	668.1	668.1	656.1	668.1
62.5°	507.1	513.0	513.0	513.0	519.1	513.0	507.1	513.0	507.1	507.1	513.0
65°	334.2	340.1	340.1	334.2	346.0	334.2	340.1	346.0	351.9	346.0	351.9
67.5°	226.6	226.6	232.8	238.7	232.8	238.7	244.6	238.7	244.6	256.6	244.6
70°	167.0	173.1	173.1	167.0	161.1	167.0	161.1	179.0	179.0	179.0	190.8
72.5°	107.3	107.3	101.4	101.4	101.4	101.4	101.4	119.3	107.3	101.4	113.4
75°	59.7	65.6	65.6	47.6	53.8	65.6	47.6	53.8	71.7	59.7	71.7
77.5°	35.9	35.9	35.9	35.9	35.9	35.9	47.6	41.7	41.7	41.7	47.6
80°	29.7	23.8	23.8	17.9	23.8	23.8	23.8	35.9	29.7	29.7	35.9
82.5°	12.0	12.0	5.9	0.0	12.0	12.0	12.0	12.0	12.0	12.0	23.8
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	12.0	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: P248991

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7
2.5°	12205.7	12205.7	12199.8	12188.0	12163.9	12163.9	12158.0	12140.1	12128.3	12122.2	12122.2
5°	12146.0	12122.2	12098.4	12032.8	12032.8	12020.8	11985.2	11961.1	11949.3	11919.3	11907.6
7.5°	12092.5	12020.8	11979.0	11937.3	11883.7	11859.7	11817.9	11800.0	11758.3	11728.6	11710.6
10°	11961.1	11913.5	11859.7	11794.1	11752.4	11704.7	11656.9	11621.2	11567.5	11537.5	11513.7
12.5°	11871.7	11800.0	11752.4	11680.7	11609.2	11567.5	11501.9	11460.2	11406.4	11346.7	11310.9
15°	11788.2	11710.6	11645.1	11567.5	11489.9	11442.2	11364.6	11317.0	11239.4	11179.7	11138.0
17.5°	11663.0	11597.2	11525.7	11430.2	11358.8	11299.1	11215.4	11155.9	11084.2	11006.6	10964.9
20°	11531.6	11454.0	11382.6	11287.1	11215.4	11143.9	11060.4	10994.8	10911.1	10839.7	10792.0
22.5°	11358.8	11269.1	11209.5	11113.9	11030.4	10953.1	10875.5	10797.9	10720.3	10660.6	10606.9
25°	11108.0	11012.5	10947.0	10869.4	10792.0	10732.3	10636.8	10589.2	10511.6	10457.8	10404.0
27.5°	10750.0	10678.6	10618.9	10541.3	10475.7	10428.1	10356.4	10308.8	10243.0	10195.3	10153.6
30°	10225.3	10165.6	10111.8	10034.2	9986.6	9944.9	9879.1	9837.3	9789.7	9735.9	9724.1
32.5°	9521.3	9473.4	9419.9	9366.1	9330.2	9306.4	9252.7	9228.8	9181.2	9151.2	9121.5
35°	8459.3	8417.5	8387.8	8364.0	8352.0	8357.9	8346.1	8369.9	8381.7	8375.8	8381.7
37.5°	7069.4	7045.4	7057.4	7075.3	7135.0	7212.6	7284.1	7391.4	7463.1	7534.8	7600.3
40°	5518.3	5536.2	5583.9	5691.2	5846.4	6019.5	6180.5	6383.4	6586.2	6729.4	6860.5
42.5°	4164.1	4217.8	4336.9	4492.1	4724.9	4981.3	5232.0	5530.1	5774.9	6013.3	6180.5
45°	3132.0	3203.5	3358.7	3573.5	3829.9	4128.2	4444.5	4778.4	5070.9	5315.5	5500.4
47.5°	2440.1	2505.6	2660.8	2887.4	3203.5	3513.9	3841.9	4187.9	4492.1	4730.8	4891.9
50°	1926.8	2010.3	2147.6	2386.3	2702.5	3030.6	3370.7	3710.5	3997.1	4199.9	4343.1
52.5°	1515.3	1592.9	1724.0	1974.7	2296.9	2625.0	2941.0	3275.2	3525.6	3722.6	3818.1
55°	1175.2	1246.9	1383.9	1592.9	1897.1	2219.3	2535.3	2821.9	3054.4	3197.6	3287.2
57.5°	894.8	948.6	1044.1	1252.8	1527.3	1825.4	2094.1	2380.4	2559.4	2660.8	2720.2
60°	680.2	721.9	823.3	984.4	1234.9	1491.5	1718.1	1933.0	2076.1	2159.6	2219.3
62.5°	513.0	560.8	632.3	769.6	960.4	1169.3	1360.1	1521.2	1640.5	1694.3	1736.1
65°	351.9	387.7	441.5	548.8	709.9	858.9	1008.2	1127.6	1205.2	1264.8	1288.7
67.5°	262.5	286.3	316.3	399.8	513.0	632.3	733.7	817.2	900.9	924.7	966.5
70°	196.9	214.9	244.6	304.2	369.8	453.3	537.0	584.7	644.3	686.1	698.1
72.5°	125.2	131.1	161.1	196.9	250.5	304.2	358.0	399.8	435.6	459.4	471.2
75°	71.7	107.3	107.3	143.2	179.0	202.8	238.7	268.4	286.3	304.2	304.2
77.5°	47.6	65.6	71.7	89.4	107.3	137.3	167.0	184.9	202.8	208.7	208.7
80°	41.7	47.6	47.6	65.6	77.6	101.4	119.3	125.2	137.3	143.2	155.2
82.5°	17.9	23.8	29.7	47.6	53.8	53.8	71.7	77.6	89.4	95.5	95.5
85°	5.9	12.0	12.0	17.9	29.7	35.9	41.7	47.6	53.8	53.8	59.7
87.5°	5.9	5.9	0.0	5.9	12.0	12.0	23.8	23.8	23.8	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: P248991

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7	12217.7
2.5°	12110.4	12116.3	12092.5	12086.6	12074.5	12080.4	12092.5
5°	11889.6	11895.5	11871.7	11847.9	11847.9	11841.8	11847.9
7.5°	11680.7	11686.8	11651.0	11638.9	11615.1	11621.2	11621.2
10°	11472.0	11472.0	11418.4	11412.3	11394.4	11388.5	11388.5
12.5°	11269.1	11251.2	11209.5	11185.6	11197.7	11161.8	11161.8
15°	11090.1	11060.4	11006.6	10988.7	10959.0	10947.0	10947.0
17.5°	10905.2	10881.4	10833.8	10797.9	10762.1	10756.2	10762.1
20°	10726.2	10702.4	10642.7	10618.9	10589.2	10589.2	10577.2
22.5°	10547.2	10523.4	10469.9	10451.9	10410.2	10410.2	10416.1
25°	10362.3	10344.4	10284.7	10272.9	10267.0	10243.0	10255.0
27.5°	10111.8	10099.8	10052.2	10034.2	10010.4	10004.5	10016.3
30°	9652.4	9634.5	9598.9	9581.0	9539.2	9545.1	9556.9
32.5°	9079.8	9056.0	9008.1	8990.2	8954.6	8942.5	8948.4
35°	8364.0	8346.1	8304.3	8304.3	8268.5	8256.4	8268.5
37.5°	7636.2	7653.9	7636.2	7653.9	7636.2	7630.0	7636.2
40°	6950.1	7015.7	7027.5	7093.3	7069.4	7105.1	7099.2
42.5°	6293.7	6401.1	6443.0	6496.6	6484.8	6508.6	6526.5
45°	5631.5	5721.1	5762.9	5798.7	5804.6	5816.6	5822.5
47.5°	5005.1	5076.8	5082.7	5124.4	5118.5	5118.5	5136.5
50°	4420.7	4468.3	4480.1	4510.1	4486.2	4474.2	4480.1
52.5°	3877.8	3925.4	3913.4	3925.4	3895.7	3883.7	3889.5
55°	3322.8	3346.6	3346.6	3346.6	3311.0	3311.0	3311.0
57.5°	2756.1	2762.2	2750.2	2756.1	2750.2	2714.3	2708.4
60°	2237.2	2237.2	2231.1	2237.2	2219.3	2201.4	2201.4
62.5°	1747.8	1759.9	1783.7	1759.9	1747.8	1759.9	1741.9
65°	1306.6	1330.4	1324.3	1336.3	1330.4	1330.4	1318.4
67.5°	984.4	990.3	996.2	1002.3	1002.3	1002.3	1002.3
70°	721.9	739.8	733.7	733.7	733.7	733.7	769.6
72.5°	483.2	507.1	501.2	513.0	513.0	525.0	513.0
75°	328.1	351.9	340.1	358.0	351.9	340.1	369.8
77.5°	220.8	232.8	238.7	244.6	238.7	232.8	238.7
80°	155.2	167.0	161.1	167.0	167.0	167.0	173.1
82.5°	95.5	113.4	107.3	113.4	107.3	113.4	113.4
85°	65.6	71.7	59.7	71.7	65.6	65.6	77.6
87.5°	41.7	35.9	35.9	41.7	35.9	41.7	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)