

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: P248874

Luminaire Tested: **LD8B200D010 ER8B200827 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248874
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 ER8B200827 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15503.0 lumens
Efficiency: N/A
Efficacy: 69.4 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

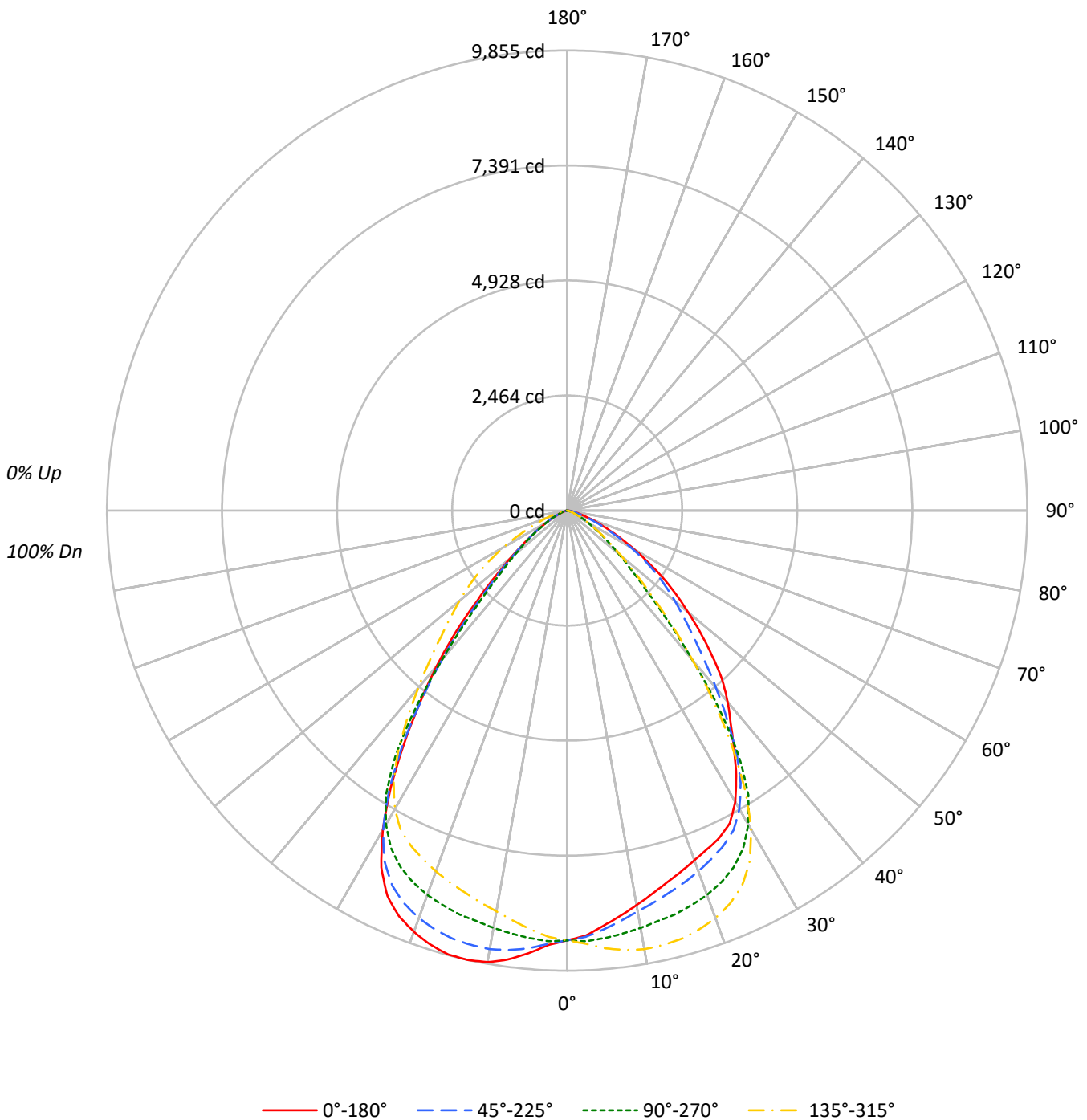
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	283805	283805	283805	283805
5°	276268	284471	294630	284471
10°	268626	284100	307459	284100
15°	263259	285788	314191	285788
20°	261466	287423	314998	287423
25°	262840	286844	309936	286844
30°	256340	276344	281311	276344
35°	234474	241070	228722	241070
40°	215270	167690	175117	167690
45°	191274	102303	118368	102303
50°	161903	68337	75888	68337
55°	134092	46633	49283	46633
60°	102272	31040	31317	31040
65°	72461	19343	17709	19343
70°	52265	12956	11757	12956
75°	33193	6434	5349	6434
80°	23156	4795	3978	4795
85°	20698	0	1557	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	876.0	5.7
10°-20°	2536.8	16.4
20°-30°	3841.2	24.8
30°-40°	3849.8	24.8
40°-50°	2417.5	15.6
50°-60°	1288.3	8.3
60°-70°	529.8	3.4
70°-80°	140.0	0.9
80°-90°	23.7	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°	7254.0	46.8
0°-40°	11103.8	71.6
0°-60°	14809.6	95.5
0°-90°	15503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15503.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9204	9204	9204	9204	9204	
5°	8925	9190	9518	9190	8925	842
15°	8246	8952	9842	8952	8246	2332
25°	7725	8431	9109	8431	7725	3543
35°	6229	6404	6076	6404	6229	3902
45°	4386	2346	2714	2346	4386	3373
55°	2494	867	917	867	2494	2224
65°	993	265	243	265	993	1030
75°	279	54	45	54	279	316
85°	58	0	4	0	58	64
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°	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6
2.5°	9109.3	9100.2	9095.8	9104.9	9109.3	9127.2	9122.8	9131.7	9131.7	9136.3	9145.2
5°	8925.1	8920.4	8925.1	8925.1	8943.0	8961.0	8956.5	8970.0	8978.9	9001.5	9010.3
7.5°	8754.3	8754.3	8749.7	8767.7	8776.7	8803.7	8799.1	8821.7	8835.2	8857.6	8889.0
10°	8579.0	8579.0	8583.4	8596.9	8601.5	8641.9	8641.9	8673.3	8691.3	8713.8	8754.3
12.5°	8408.2	8408.2	8435.3	8426.2	8444.1	8475.6	8489.1	8520.5	8547.5	8592.5	8633.0
15°	8246.4	8246.4	8255.5	8277.8	8291.3	8331.9	8354.2	8390.3	8421.7	8466.7	8525.2
17.5°	8107.1	8102.7	8107.1	8134.1	8161.1	8197.0	8214.9	8259.9	8291.3	8349.8	8403.8
20°	7967.8	7976.9	7976.9	7999.3	8017.2	8062.2	8080.1	8129.7	8165.6	8219.4	8282.5
22.5°	7846.5	7842.0	7842.0	7873.5	7887.0	7927.3	7945.3	7990.2	8030.7	8075.7	8134.1
25°	7725.1	7716.1	7734.2	7738.6	7747.5	7792.5	7806.0	7837.4	7877.9	7918.4	7976.9
27.5°	7545.3	7536.5	7540.9	7558.8	7572.3	7608.2	7617.3	7648.7	7680.2	7716.1	7765.6
30°	7199.2	7190.4	7185.9	7217.4	7230.9	7257.7	7271.2	7325.2	7334.1	7374.6	7410.5
32.5°	6740.9	6736.4	6745.5	6772.3	6785.8	6821.9	6839.8	6871.3	6893.7	6916.2	6952.1
35°	6228.7	6219.6	6228.7	6255.7	6255.7	6287.1	6300.6	6314.0	6309.5	6314.0	6305.1
37.5°	5752.4	5747.7	5752.4	5765.7	5752.4	5765.7	5752.4	5725.4	5676.0	5622.0	5567.9
40°	5347.8	5352.3	5325.4	5343.4	5293.8	5284.9	5235.5	5168.0	5069.3	4961.4	4808.6
42.5°	4916.5	4903.0	4885.0	4893.9	4853.6	4821.9	4741.1	4655.8	4529.9	4350.3	4165.8
45°	4386.1	4381.7	4372.6	4368.2	4341.2	4309.7	4242.2	4143.5	4004.2	3819.9	3599.6
47.5°	3869.3	3855.8	3855.8	3860.3	3828.8	3824.4	3770.4	3685.1	3563.7	3383.9	3154.8
50°	3374.9	3370.4	3379.5	3397.4	3374.9	3366.0	3330.1	3271.7	3163.8	3011.0	2795.2
52.5°	2930.0	2925.6	2934.6	2957.0	2948.0	2957.0	2921.1	2876.2	2804.2	2655.9	2467.2
55°	2494.2	2494.2	2494.2	2521.0	2521.0	2521.0	2503.1	2476.3	2408.8	2300.9	2125.7
57.5°	2040.3	2044.7	2071.7	2076.2	2071.7	2080.8	2076.2	2049.2	2004.4	1928.0	1793.2
60°	1658.3	1658.3	1671.8	1685.3	1680.7	1685.3	1685.3	1671.8	1626.9	1564.0	1456.1
62.5°	1312.2	1325.7	1316.7	1325.7	1343.7	1325.7	1316.7	1307.8	1276.3	1235.8	1145.9
65°	993.1	1002.2	1002.2	1006.6	997.6	1002.2	984.3	970.8	952.8	907.9	849.4
67.5°	755.1	755.1	755.1	755.1	750.4	746.0	741.6	728.1	696.6	678.7	615.6
70°	579.7	552.7	552.7	552.7	552.7	557.3	543.8	525.9	516.8	485.4	440.4
72.5°	386.4	395.5	386.4	386.4	377.5	382.0	364.0	355.0	346.1	328.1	301.1
75°	278.6	256.2	265.1	269.7	256.2	265.1	247.1	229.2	229.2	215.7	202.2
77.5°	179.8	175.4	179.8	184.2	179.8	175.4	166.3	157.2	157.2	152.8	139.3
80°	130.4	125.8	125.8	125.8	121.3	125.8	116.9	116.9	107.8	103.4	94.3
82.5°	85.5	85.5	80.8	85.5	80.8	85.5	72.0	72.0	72.0	67.3	58.5
85°	58.5	49.4	49.4	54.0	44.9	54.0	49.4	44.9	40.5	40.5	35.9
87.5°	27.0	31.4	27.0	31.4	27.0	27.0	31.4	27.0	27.0	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6
2.5°	9158.7	9163.1	9163.1	9181.3	9190.1	9194.6	9194.6	9230.6	9217.1	9226.2	9235.1
5°	9028.5	9055.3	9064.4	9064.4	9113.7	9131.7	9149.6	9190.1	9194.6	9221.6	9253.0
7.5°	8902.5	8933.9	8952.1	8992.4	9023.8	9055.3	9109.3	9136.3	9163.1	9199.2	9239.5
10°	8781.2	8817.2	8853.1	8884.6	8933.9	8974.5	9010.3	9073.2	9104.9	9154.3	9208.1
12.5°	8664.4	8713.8	8745.3	8799.1	8853.1	8889.0	8943.0	9001.5	9050.9	9100.2	9163.1
15°	8561.0	8619.5	8655.4	8713.8	8772.3	8821.7	8880.1	8952.1	8988.0	9046.4	9104.9
17.5°	8448.6	8511.6	8556.6	8610.4	8682.4	8736.2	8785.8	8857.6	8902.5	8965.4	9032.9
20°	8331.9	8394.7	8448.6	8502.6	8574.5	8628.4	8686.8	8758.8	8808.2	8871.1	8925.1
22.5°	8192.6	8251.0	8309.3	8372.2	8444.1	8489.1	8556.6	8619.5	8673.3	8731.8	8785.8
25°	8012.8	8084.7	8129.7	8187.9	8246.4	8295.8	8367.7	8430.6	8475.6	8529.6	8579.0
27.5°	7801.5	7855.5	7891.4	7940.8	7999.3	8044.2	8098.0	8161.1	8206.1	8255.5	8291.3
30°	7441.9	7491.5	7523.0	7558.8	7617.3	7657.8	7702.7	7761.0	7792.5	7828.5	7860.0
32.5°	6970.1	7010.6	7028.5	7055.5	7096.0	7136.4	7172.4	7221.8	7235.3	7257.7	7257.7
35°	6287.1	6296.0	6291.6	6300.6	6318.6	6341.0	6372.4	6403.9	6421.8	6421.8	6408.5
37.5°	5487.1	5433.3	5374.8	5329.9	5316.4	5307.3	5325.4	5338.8	5356.9	5365.8	5343.4
40°	4655.8	4534.5	4404.1	4287.2	4206.3	4170.5	4157.0	4165.8	4165.8	4197.3	4197.3
42.5°	3941.3	3752.4	3559.3	3383.9	3267.0	3177.3	3136.8	3136.8	3141.3	3163.8	3177.3
45°	3348.1	3109.8	2885.1	2691.9	2530.1	2413.2	2359.4	2345.9	2341.4	2350.3	2381.7
47.5°	2894.1	2647.0	2413.2	2175.1	2004.4	1887.5	1838.1	1820.0	1802.0	1820.0	1824.6
50°	2539.2	2283.0	2035.8	1797.6	1617.8	1514.4	1451.5	1424.5	1420.1	1420.1	1429.1
52.5°	2215.5	1977.4	1730.3	1487.6	1298.7	1199.9	1141.5	1128.0	1110.0	1128.0	1128.0
55°	1909.9	1671.8	1429.1	1199.9	1042.5	939.3	885.3	867.4	858.3	871.8	871.8
57.5°	1577.5	1375.1	1150.5	943.7	786.5	714.6	674.1	651.7	647.0	656.1	647.0
60°	1294.3	1123.5	930.2	741.6	620.2	543.8	512.4	503.3	494.3	503.3	503.3
62.5°	1024.6	880.9	723.4	579.7	476.3	422.5	386.4	386.4	382.0	382.0	386.4
65°	759.5	647.0	534.8	413.4	332.6	292.1	265.1	265.1	260.6	265.1	260.6
67.5°	552.7	476.3	386.4	301.1	238.2	215.7	197.7	184.2	193.3	184.2	179.8
70°	404.5	341.5	278.6	229.2	184.2	161.9	148.4	143.7	134.8	134.8	134.8
72.5°	269.7	229.2	188.7	148.4	121.3	98.8	94.3	85.5	76.4	80.8	89.9
75°	179.8	152.8	134.8	107.8	80.8	80.8	54.0	54.0	44.9	54.0	40.5
77.5°	125.8	103.4	80.8	67.3	54.0	49.4	35.9	35.9	31.4	31.4	31.4
80°	89.9	76.4	58.5	49.4	35.9	35.9	31.4	27.0	22.4	22.4	27.0
82.5°	54.0	40.5	40.5	35.9	22.4	17.9	13.5	17.9	9.1	9.1	9.1
85°	31.4	27.0	22.4	13.5	9.1	9.1	4.4	0.0	4.4	4.4	0.0
87.5°	17.9	9.1	9.1	4.4	0.0	4.4	4.4	0.0	0.0	0.0	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6
2.5°	9257.7	9253.0	9262.1	9262.1	9289.1	9284.5	9298.0	9298.0	9289.1	9293.5	9311.5
5°	9289.1	9302.6	9329.4	9352.0	9392.3	9410.4	9432.8	9455.4	9459.8	9473.3	9486.8
7.5°	9289.1	9334.0	9365.5	9405.8	9459.8	9491.3	9540.7	9581.2	9599.1	9621.5	9648.5
10°	9271.0	9315.9	9374.4	9419.3	9486.8	9536.2	9585.6	9648.5	9675.5	9711.4	9747.5
12.5°	9235.1	9284.5	9347.4	9405.8	9482.2	9527.2	9590.1	9648.5	9689.0	9738.4	9778.9
15°	9181.3	9239.5	9298.0	9356.4	9437.3	9491.3	9549.7	9617.1	9657.6	9711.4	9747.5
17.5°	9095.8	9158.7	9212.7	9266.5	9342.9	9405.8	9459.8	9522.7	9563.2	9608.2	9657.6
20°	8992.4	9050.9	9109.3	9154.3	9230.6	9284.5	9342.9	9401.4	9432.8	9441.9	9518.3
22.5°	8862.2	8902.5	8947.4	9019.4	9064.4	9113.7	9167.8	9221.6	9253.0	9302.6	9329.4
25°	8646.3	8686.8	8736.2	8767.7	8821.7	8862.2	8916.0	8974.5	8992.4	9028.5	9055.3
27.5°	8345.4	8367.7	8390.3	8417.1	8448.6	8471.1	8502.6	8529.6	8547.5	8565.5	8583.4
30°	7868.9	7868.9	7868.9	7850.9	7864.4	7877.9	7882.4	7877.9	7877.9	7873.5	7873.5
32.5°	7239.8	7203.9	7163.4	7127.5	7114.0	7096.0	7087.0	7073.5	7051.1	7037.6	7042.0
35°	6390.3	6309.5	6260.1	6215.2	6179.3	6152.3	6138.8	6125.3	6120.8	6102.9	6084.8
37.5°	5329.9	5271.4	5235.5	5208.5	5177.1	5150.1	5154.5	5159.2	5172.5	5163.6	5168.0
40°	4206.3	4192.8	4206.3	4174.9	4165.8	4174.9	4197.3	4228.9	4246.9	4264.8	4296.2
42.5°	3199.7	3222.1	3253.7	3253.7	3267.0	3285.2	3312.0	3361.6	3388.4	3419.8	3455.9
45°	2408.8	2435.8	2476.3	2489.6	2498.6	2521.0	2552.7	2593.0	2610.9	2637.9	2669.4
47.5°	1856.0	1874.0	1896.4	1918.9	1941.3	1950.4	1981.8	1981.8	2004.4	2022.3	2031.2
50°	1447.1	1465.0	1482.9	1496.5	1505.5	1519.0	1527.9	1541.4	1545.8	1554.9	1559.3
52.5°	1132.4	1155.0	1155.0	1163.9	1177.4	1190.9	1186.4	1190.9	1195.3	1195.3	1208.8
55°	885.3	885.3	898.8	898.8	907.9	903.2	907.9	907.9	907.9	907.9	912.3
57.5°	660.5	665.2	678.7	669.6	665.2	674.1	665.2	674.1	669.6	678.7	665.2
60°	507.8	507.8	512.4	512.4	516.8	516.8	516.8	512.4	512.4	507.8	507.8
62.5°	382.0	386.4	391.0	386.4	386.4	386.4	382.0	382.0	377.5	372.9	372.9
65°	256.2	251.8	260.6	251.8	256.2	256.2	251.8	256.2	242.7	247.1	242.7
67.5°	184.2	179.8	175.4	179.8	175.4	170.7	170.7	175.4	179.8	166.3	166.3
70°	121.3	125.8	121.3	125.8	130.4	130.4	125.8	121.3	125.8	116.9	121.3
72.5°	76.4	76.4	76.4	76.4	76.4	80.8	80.8	80.8	72.0	72.0	67.3
75°	35.9	49.4	40.5	35.9	49.4	49.4	44.9	44.9	40.5	40.5	40.5
77.5°	35.9	27.0	27.0	27.0	27.0	27.0	27.0	27.0	22.4	27.0	22.4
80°	17.9	17.9	17.9	13.5	17.9	17.9	22.4	17.9	17.9	13.5	22.4
82.5°	9.1	9.1	9.1	0.0	4.4	9.1	9.1	4.4	9.1	9.1	4.4
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: P248874

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6
2.5°	9307.0	9302.6	9307.0	9311.5	9307.0	9302.6	9307.0	9311.5	9293.5	9289.1	9298.0
5°	9504.8	9504.8	9513.7	9518.3	9513.7	9504.8	9504.8	9486.8	9473.3	9459.8	9455.4
7.5°	9675.5	9684.6	9693.5	9697.9	9693.5	9684.6	9675.5	9648.5	9621.5	9599.1	9581.2
10°	9778.9	9792.4	9810.4	9819.2	9810.4	9792.4	9778.9	9747.5	9711.4	9675.5	9648.5
12.5°	9823.9	9837.4	9859.7	9855.3	9859.7	9837.4	9823.9	9778.9	9738.4	9689.0	9648.5
15°	9792.4	9810.4	9832.7	9841.8	9832.7	9810.4	9792.4	9747.5	9711.4	9657.6	9617.1
17.5°	9693.5	9720.5	9734.0	9747.5	9734.0	9720.5	9693.5	9657.6	9608.2	9563.2	9522.7
20°	9558.6	9576.7	9594.7	9599.1	9594.7	9576.7	9558.6	9518.3	9441.9	9432.8	9401.4
22.5°	9365.5	9379.0	9419.3	9405.8	9419.3	9379.0	9365.5	9329.4	9302.6	9253.0	9221.6
25°	9086.7	9100.2	9104.9	9109.3	9104.9	9100.2	9086.7	9055.3	9028.5	8992.4	8974.5
27.5°	8606.0	8606.0	8614.9	8619.5	8614.9	8606.0	8606.0	8583.4	8565.5	8547.5	8529.6
30°	7877.9	7877.9	7877.9	7900.5	7877.9	7877.9	7877.9	7873.5	7873.5	7877.9	7877.9
32.5°	7037.6	7028.5	7019.6	7028.5	7019.6	7028.5	7037.6	7042.0	7037.6	7051.1	7073.5
35°	6084.8	6080.3	6093.8	6075.9	6093.8	6080.3	6084.8	6084.8	6102.9	6120.8	6125.3
37.5°	5172.5	5163.6	5181.5	5163.6	5181.5	5163.6	5172.5	5168.0	5163.6	5172.5	5159.2
40°	4305.3	4314.2	4314.2	4350.3	4314.2	4314.2	4305.3	4296.2	4264.8	4246.9	4228.9
42.5°	3473.8	3500.8	3491.8	3518.8	3491.8	3500.8	3473.8	3455.9	3419.8	3388.4	3361.6
45°	2687.3	2705.5	2705.5	2714.3	2705.5	2705.5	2687.3	2669.4	2637.9	2610.9	2593.0
47.5°	2062.7	2062.7	2062.7	2067.3	2062.7	2062.7	2062.7	2031.2	2022.3	2004.4	1981.8
50°	1568.4	1572.8	1577.5	1581.9	1577.5	1572.8	1568.4	1559.3	1554.9	1545.8	1541.4
52.5°	1204.4	1208.8	1199.9	1208.8	1199.9	1208.8	1204.4	1208.8	1195.3	1195.3	1190.9
55°	912.3	907.9	912.3	916.7	912.3	907.9	912.3	912.3	907.9	907.9	907.9
57.5°	669.6	660.5	660.5	660.5	660.5	660.5	669.6	665.2	678.7	669.6	674.1
60°	498.9	503.3	503.3	507.8	503.3	503.3	498.9	507.8	507.8	512.4	512.4
62.5°	368.5	382.0	372.9	382.0	372.9	382.0	368.5	372.9	372.9	377.5	382.0
65°	238.2	238.2	238.2	242.7	238.2	238.2	238.2	242.7	247.1	242.7	256.2
67.5°	161.9	166.3	175.4	170.7	175.4	166.3	161.9	166.3	166.3	179.8	175.4
70°	130.4	116.9	116.9	130.4	116.9	116.9	130.4	121.3	116.9	125.8	121.3
72.5°	76.4	67.3	76.4	76.4	76.4	67.3	76.4	67.3	72.0	72.0	80.8
75°	40.5	35.9	31.4	44.9	31.4	35.9	40.5	40.5	40.5	40.5	44.9
77.5°	27.0	22.4	31.4	31.4	31.4	22.4	27.0	22.4	27.0	22.4	27.0
80°	13.5	17.9	13.5	22.4	13.5	17.9	13.5	22.4	13.5	17.9	17.9
82.5°	4.4	9.1	9.1	9.1	9.1	9.1	4.4	4.4	9.1	9.1	4.4
85°	0.0	9.1	4.4	4.4	4.4	9.1	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	0.0	0.0	4.4	0.0	0.0	4.4	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: P248874

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6
2.5°	9298.0	9284.5	9289.1	9262.1	9262.1	9253.0	9257.7	9235.1	9226.2	9217.1	9230.6
5°	9432.8	9410.4	9392.3	9352.0	9329.4	9302.6	9289.1	9253.0	9221.6	9194.6	9190.1
7.5°	9540.7	9491.3	9459.8	9405.8	9365.5	9334.0	9289.1	9239.5	9199.2	9163.1	9136.3
10°	9585.6	9536.2	9486.8	9419.3	9374.4	9315.9	9271.0	9208.1	9154.3	9104.9	9073.2
12.5°	9590.1	9527.2	9482.2	9405.8	9347.4	9284.5	9235.1	9163.1	9100.2	9050.9	9001.5
15°	9549.7	9491.3	9437.3	9356.4	9298.0	9239.5	9181.3	9104.9	9046.4	8988.0	8952.1
17.5°	9459.8	9405.8	9342.9	9266.5	9212.7	9158.7	9095.8	9032.9	8965.4	8902.5	8857.6
20°	9342.9	9284.5	9230.6	9154.3	9109.3	9050.9	8992.4	8925.1	8871.1	8808.2	8758.8
22.5°	9167.8	9113.7	9064.4	9019.4	8947.4	8902.5	8862.2	8785.8	8731.8	8673.3	8619.5
25°	8916.0	8862.2	8821.7	8767.7	8736.2	8686.8	8646.3	8579.0	8529.6	8475.6	8430.6
27.5°	8502.6	8471.1	8448.6	8417.1	8390.3	8367.7	8345.4	8291.3	8255.5	8206.1	8161.1
30°	7882.4	7877.9	7864.4	7850.9	7868.9	7868.9	7868.9	7860.0	7828.5	7792.5	7761.0
32.5°	7087.0	7096.0	7114.0	7127.5	7163.4	7203.9	7239.8	7257.7	7257.7	7235.3	7221.8
35°	6138.8	6152.3	6179.3	6215.2	6260.1	6309.5	6390.3	6408.5	6421.8	6421.8	6403.9
37.5°	5154.5	5150.1	5177.1	5208.5	5235.5	5271.4	5329.9	5343.4	5365.8	5356.9	5338.8
40°	4197.3	4174.9	4165.8	4174.9	4206.3	4192.8	4206.3	4197.3	4197.3	4165.8	4165.8
42.5°	3312.0	3285.2	3267.0	3253.7	3253.7	3222.1	3199.7	3177.3	3163.8	3141.3	3136.8
45°	2552.7	2521.0	2498.6	2489.6	2476.3	2435.8	2408.8	2381.7	2350.3	2341.4	2345.9
47.5°	1981.8	1950.4	1941.3	1918.9	1896.4	1874.0	1856.0	1824.6	1820.0	1802.0	1820.0
50°	1527.9	1519.0	1505.5	1496.5	1482.9	1465.0	1447.1	1429.1	1420.1	1420.1	1424.5
52.5°	1186.4	1190.9	1177.4	1163.9	1155.0	1155.0	1132.4	1128.0	1128.0	1110.0	1128.0
55°	907.9	903.2	907.9	898.8	898.8	885.3	885.3	871.8	871.8	858.3	867.4
57.5°	665.2	674.1	665.2	669.6	678.7	665.2	660.5	647.0	656.1	647.0	651.7
60°	516.8	516.8	516.8	512.4	512.4	507.8	507.8	503.3	503.3	494.3	503.3
62.5°	382.0	386.4	386.4	386.4	391.0	386.4	382.0	386.4	382.0	382.0	386.4
65°	251.8	256.2	256.2	251.8	260.6	251.8	256.2	260.6	265.1	260.6	265.1
67.5°	170.7	170.7	175.4	179.8	175.4	179.8	184.2	179.8	184.2	193.3	184.2
70°	125.8	130.4	130.4	125.8	121.3	125.8	121.3	134.8	134.8	134.8	143.7
72.5°	80.8	80.8	76.4	76.4	76.4	76.4	76.4	89.9	80.8	76.4	85.5
75°	44.9	49.4	49.4	35.9	40.5	49.4	35.9	40.5	54.0	44.9	54.0
77.5°	27.0	27.0	27.0	27.0	27.0	27.0	35.9	31.4	31.4	31.4	35.9
80°	22.4	17.9	17.9	13.5	17.9	17.9	17.9	27.0	22.4	22.4	27.0
82.5°	9.1	9.1	4.4	0.0	9.1	9.1	9.1	9.1	9.1	9.1	17.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248874

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6
2.5°	9194.6	9194.6	9190.1	9181.3	9163.1	9163.1	9158.7	9145.2	9136.3	9131.7	9131.7
5°	9149.6	9131.7	9113.7	9064.4	9064.4	9055.3	9028.5	9010.3	9001.5	8978.9	8970.0
7.5°	9109.3	9055.3	9023.8	8992.4	8952.1	8933.9	8902.5	8889.0	8857.6	8835.2	8821.7
10°	9010.3	8974.5	8933.9	8884.6	8853.1	8817.2	8781.2	8754.3	8713.8	8691.3	8673.3
12.5°	8943.0	8889.0	8853.1	8799.1	8745.3	8713.8	8664.4	8633.0	8592.5	8547.5	8520.5
15°	8880.1	8821.7	8772.3	8713.8	8655.4	8619.5	8561.0	8525.2	8466.7	8421.7	8390.3
17.5°	8785.8	8736.2	8682.4	8610.4	8556.6	8511.6	8448.6	8403.8	8349.8	8291.3	8259.9
20°	8686.8	8628.4	8574.5	8502.6	8448.6	8394.7	8331.9	8282.5	8219.4	8165.6	8129.7
22.5°	8556.6	8489.1	8444.1	8372.2	8309.3	8251.0	8192.6	8134.1	8075.7	8030.7	7990.2
25°	8367.7	8295.8	8246.4	8187.9	8129.7	8084.7	8012.8	7976.9	7918.4	7877.9	7837.4
27.5°	8098.0	8044.2	7999.3	7940.8	7891.4	7855.5	7801.5	7765.6	7716.1	7680.2	7648.7
30°	7702.7	7657.8	7617.3	7558.8	7523.0	7491.5	7441.9	7410.5	7374.6	7334.1	7325.2
32.5°	7172.4	7136.4	7096.0	7055.5	7028.5	7010.6	6970.1	6952.1	6916.2	6893.7	6871.3
35°	6372.4	6341.0	6318.6	6300.6	6291.6	6296.0	6287.1	6305.1	6314.0	6309.5	6314.0
37.5°	5325.4	5307.3	5316.4	5329.9	5374.8	5433.3	5487.1	5567.9	5622.0	5676.0	5725.4
40°	4157.0	4170.5	4206.3	4287.2	4404.1	4534.5	4655.8	4808.6	4961.4	5069.3	5168.0
42.5°	3136.8	3177.3	3267.0	3383.9	3559.3	3752.4	3941.3	4165.8	4350.3	4529.9	4655.8
45°	2359.4	2413.2	2530.1	2691.9	2885.1	3109.8	3348.1	3599.6	3819.9	4004.2	4143.5
47.5°	1838.1	1887.5	2004.4	2175.1	2413.2	2647.0	2894.1	3154.8	3383.9	3563.7	3685.1
50°	1451.5	1514.4	1617.8	1797.6	2035.8	2283.0	2539.2	2795.2	3011.0	3163.8	3271.7
52.5°	1141.5	1199.9	1298.7	1487.6	1730.3	1977.4	2215.5	2467.2	2655.9	2804.2	2876.2
55°	885.3	939.3	1042.5	1199.9	1429.1	1671.8	1909.9	2125.7	2300.9	2408.8	2476.3
57.5°	674.1	714.6	786.5	943.7	1150.5	1375.1	1577.5	1793.2	1928.0	2004.4	2049.2
60°	512.4	543.8	620.2	741.6	930.2	1123.5	1294.3	1456.1	1564.0	1626.9	1671.8
62.5°	386.4	422.5	476.3	579.7	723.4	880.9	1024.6	1145.9	1235.8	1276.3	1307.8
65°	265.1	292.1	332.6	413.4	534.8	647.0	759.5	849.4	907.9	952.8	970.8
67.5°	197.7	215.7	238.2	301.1	386.4	476.3	552.7	615.6	678.7	696.6	728.1
70°	148.4	161.9	184.2	229.2	278.6	341.5	404.5	440.4	485.4	516.8	525.9
72.5°	94.3	98.8	121.3	148.4	188.7	229.2	269.7	301.1	328.1	346.1	355.0
75°	54.0	80.8	80.8	107.8	134.8	152.8	179.8	202.2	215.7	229.2	229.2
77.5°	35.9	49.4	54.0	67.3	80.8	103.4	125.8	139.3	152.8	157.2	157.2
80°	31.4	35.9	35.9	49.4	58.5	76.4	89.9	94.3	103.4	107.8	116.9
82.5°	13.5	17.9	22.4	35.9	40.5	40.5	54.0	58.5	67.3	72.0	72.0
85°	4.4	9.1	9.1	13.5	22.4	27.0	31.4	35.9	40.5	40.5	44.9
87.5°	4.4	4.4	0.0	4.4	9.1	9.1	17.9	17.9	17.9	27.0	27.0
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: P248874

CATALOG NUMBER: LD8B200D010 ER8B200827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6	9203.6
2.5°	9122.8	9127.2	9109.3	9104.9	9095.8	9100.2	9109.3
5°	8956.5	8961.0	8943.0	8925.1	8925.1	8920.4	8925.1
7.5°	8799.1	8803.7	8776.7	8767.7	8749.7	8754.3	8754.3
10°	8641.9	8641.9	8601.5	8596.9	8583.4	8579.0	8579.0
12.5°	8489.1	8475.6	8444.1	8426.2	8435.3	8408.2	8408.2
15°	8354.2	8331.9	8291.3	8277.8	8255.5	8246.4	8246.4
17.5°	8214.9	8197.0	8161.1	8134.1	8107.1	8102.7	8107.1
20°	8080.1	8062.2	8017.2	7999.3	7976.9	7976.9	7967.8
22.5°	7945.3	7927.3	7887.0	7873.5	7842.0	7842.0	7846.5
25°	7806.0	7792.5	7747.5	7738.6	7734.2	7716.1	7725.1
27.5°	7617.3	7608.2	7572.3	7558.8	7540.9	7536.5	7545.3
30°	7271.2	7257.7	7230.9	7217.4	7185.9	7190.4	7199.2
32.5°	6839.8	6821.9	6785.8	6772.3	6745.5	6736.4	6740.9
35°	6300.6	6287.1	6255.7	6255.7	6228.7	6219.6	6228.7
37.5°	5752.4	5765.7	5752.4	5765.7	5752.4	5747.7	5752.4
40°	5235.5	5284.9	5293.8	5343.4	5325.4	5352.3	5347.8
42.5°	4741.1	4821.9	4853.6	4893.9	4885.0	4903.0	4916.5
45°	4242.2	4309.7	4341.2	4368.2	4372.6	4381.7	4386.1
47.5°	3770.4	3824.4	3828.8	3860.3	3855.8	3855.8	3869.3
50°	3330.1	3366.0	3374.9	3397.4	3379.5	3370.4	3374.9
52.5°	2921.1	2957.0	2948.0	2957.0	2934.6	2925.6	2930.0
55°	2503.1	2521.0	2521.0	2521.0	2494.2	2494.2	2494.2
57.5°	2076.2	2080.8	2071.7	2076.2	2071.7	2044.7	2040.3
60°	1685.3	1685.3	1680.7	1685.3	1671.8	1658.3	1658.3
62.5°	1316.7	1325.7	1343.7	1325.7	1316.7	1325.7	1312.2
65°	984.3	1002.2	997.6	1006.6	1002.2	1002.2	993.1
67.5°	741.6	746.0	750.4	755.1	755.1	755.1	755.1
70°	543.8	557.3	552.7	552.7	552.7	552.7	579.7
72.5°	364.0	382.0	377.5	386.4	386.4	395.5	386.4
75°	247.1	265.1	256.2	269.7	265.1	256.2	278.6
77.5°	166.3	175.4	179.8	184.2	179.8	175.4	179.8
80°	116.9	125.8	121.3	125.8	125.8	125.8	130.4
82.5°	72.0	85.5	80.8	85.5	80.8	85.5	85.5
85°	49.4	54.0	44.9	54.0	49.4	49.4	58.5
87.5°	31.4	27.0	27.0	31.4	27.0	31.4	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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