

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: P248748

Luminaire Tested: **LD8B200D010 ER8B200927 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248748  
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 ER8B200927 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16794.0 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

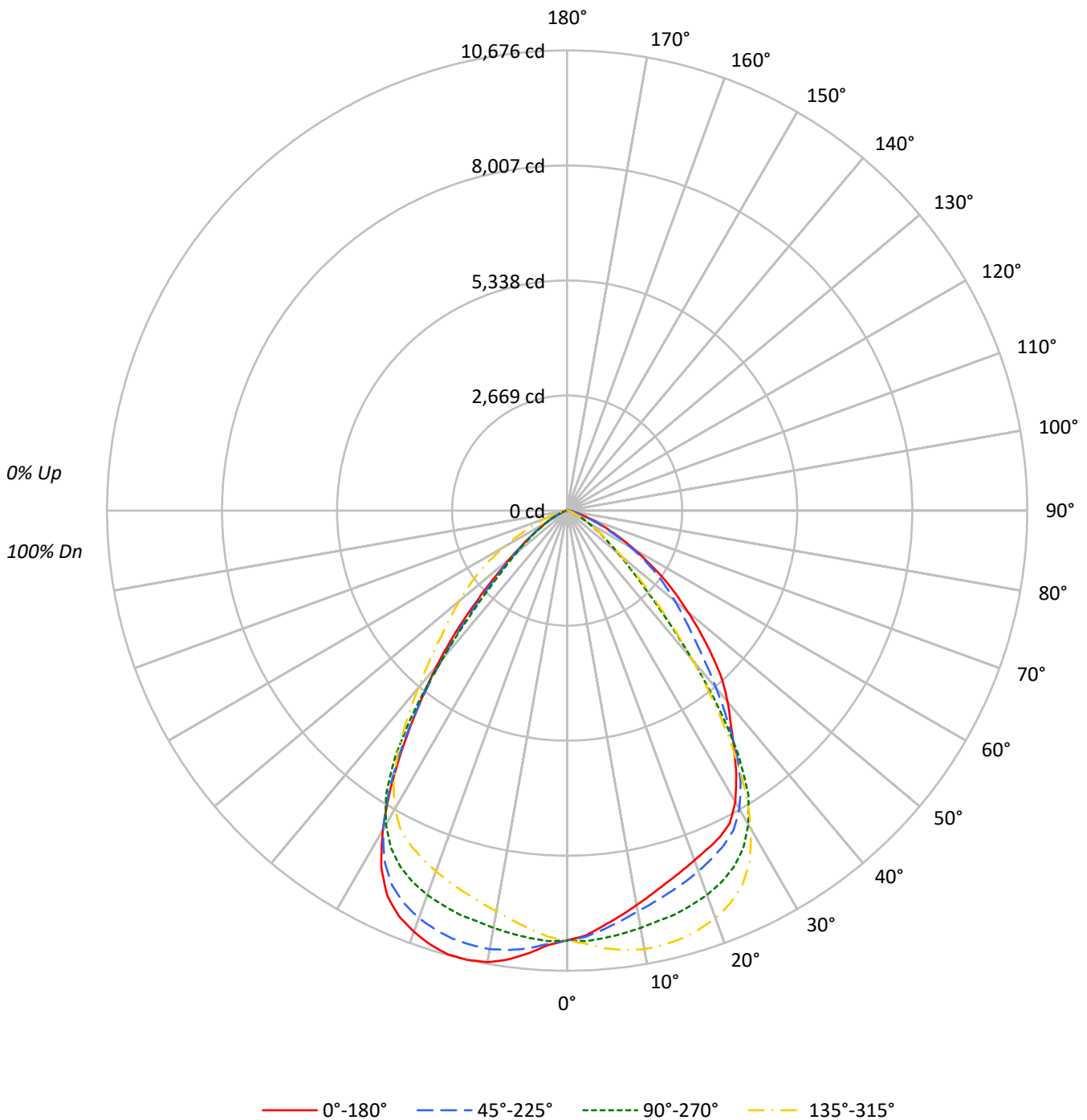
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	949.0	5.7
10°-20°	2748.0	16.4
20°-30°	4161.1	24.8
30°-40°	4170.4	24.8
40°-50°	2618.8	15.6
50°-60°	1395.6	8.3
60°-70°	573.9	3.4
70°-80°	151.6	0.9
80°-90°	25.6	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°	7858.1	46.8
0°-40°	12028.5	71.6
0°-60°	16042.9	95.5
0°-90°	16794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16794.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9970	9970	9970	9970	9970	
5°	9668	9956	10311	9956	9668	912
15°	8933	9698	10661	9698	8933	2527
25°	8368	9133	9868	9133	8368	3838
35°	6747	6937	6582	6937	6747	4227
45°	4751	2541	2940	2541	4751	3654
55°	2702	940	993	940	2702	2409
65°	1076	287	263	287	1076	1116
75°	302	58	49	58	302	342
85°	63	0	5	0	63	70
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°	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1
2.5°	9867.8	9858.0	9853.2	9863.1	9867.8	9887.3	9882.4	9892.1	9892.1	9897.1	9906.8
5°	9668.2	9663.3	9668.2	9668.2	9687.7	9707.2	9702.3	9717.0	9726.6	9751.1	9760.7
7.5°	9483.3	9483.3	9478.4	9497.8	9507.6	9536.8	9531.8	9556.3	9570.9	9595.1	9629.2
10°	9293.4	9293.4	9298.2	9312.9	9317.8	9361.5	9361.5	9395.6	9415.0	9439.4	9483.3
12.5°	9108.4	9108.4	9137.7	9127.9	9147.3	9181.4	9196.0	9230.1	9259.3	9308.0	9351.9
15°	8933.1	8933.1	8943.0	8967.2	8981.8	9025.6	9049.9	9089.0	9123.1	9171.8	9235.1
17.5°	8782.2	8777.4	8782.2	8811.4	8840.7	8879.6	8899.1	8947.7	8981.8	9045.1	9103.6
20°	8631.3	8641.1	8641.1	8665.4	8684.9	8733.5	8752.9	8806.6	8845.5	8903.8	8972.2
22.5°	8499.9	8495.1	8495.1	8529.2	8543.8	8587.5	8606.9	8655.5	8699.5	8748.1	8811.4
25°	8368.4	8358.6	8378.2	8383.1	8392.7	8441.3	8455.9	8490.0	8533.9	8577.8	8641.1
27.5°	8173.7	8164.0	8168.8	8188.3	8202.9	8241.8	8251.6	8285.6	8319.7	8358.6	8412.3
30°	7798.7	7789.2	7784.3	7818.4	7833.0	7862.1	7876.7	7935.2	7944.9	7988.7	8027.6
32.5°	7302.3	7297.4	7307.2	7336.2	7350.9	7390.0	7409.5	7443.4	7467.8	7492.2	7531.1
35°	6747.4	6737.5	6747.4	6776.7	6776.7	6810.6	6825.3	6839.8	6834.9	6839.8	6830.1
37.5°	6231.4	6226.4	6231.4	6245.8	6231.4	6245.8	6231.4	6202.1	6148.7	6090.1	6031.6
40°	5793.2	5798.0	5768.9	5788.3	5734.7	5725.0	5671.6	5598.3	5491.3	5374.6	5209.1
42.5°	5325.9	5311.2	5291.8	5301.4	5257.8	5223.5	5136.0	5043.5	4907.1	4712.5	4512.7
45°	4751.4	4746.6	4736.8	4732.0	4702.7	4668.6	4595.5	4488.5	4337.7	4138.0	3899.4
47.5°	4191.5	4176.9	4176.9	4181.7	4147.7	4142.8	4084.3	3992.0	3860.6	3665.7	3417.4
50°	3655.9	3651.1	3661.0	3680.3	3655.9	3646.4	3607.4	3544.1	3427.3	3261.8	3027.9
52.5°	3174.0	3169.2	3179.0	3203.2	3193.4	3203.2	3164.4	3115.7	3037.7	2877.1	2672.7
55°	2701.9	2701.9	2701.9	2730.9	2730.9	2730.9	2711.5	2682.5	2609.3	2492.5	2302.8
57.5°	2210.2	2215.0	2244.3	2249.1	2244.3	2254.0	2249.1	2219.8	2171.4	2088.6	1942.4
60°	1796.4	1796.4	1811.0	1825.6	1820.7	1825.6	1825.6	1811.0	1762.3	1694.2	1577.4
62.5°	1421.4	1436.1	1426.3	1436.1	1455.5	1436.1	1426.3	1416.7	1382.6	1338.8	1241.3
65°	1075.8	1085.6	1085.6	1090.5	1080.7	1085.6	1066.2	1051.5	1032.2	983.5	920.1
67.5°	818.0	818.0	818.0	818.0	812.9	808.1	803.4	788.7	754.6	735.2	666.9
70°	628.0	598.7	598.7	598.7	598.7	603.8	589.2	569.7	559.9	525.8	477.1
72.5°	418.6	428.4	418.6	418.6	408.9	413.8	394.3	384.5	375.0	355.5	326.2
75°	301.7	277.5	287.1	292.2	277.5	287.1	267.8	248.3	248.3	233.7	219.0
77.5°	194.7	190.0	194.7	199.6	194.7	190.0	180.1	170.3	170.3	165.5	150.9
80°	141.3	136.2	136.2	136.2	131.4	136.2	126.7	126.7	116.8	112.0	102.1
82.5°	92.6	92.6	87.5	92.6	87.5	92.6	78.0	78.0	78.0	72.9	63.3
85°	63.3	53.6	53.6	58.5	48.7	58.5	53.6	48.7	43.9	43.9	38.9
87.5°	29.2	34.1	29.2	34.1	29.2	29.2	34.1	29.2	29.2	19.5	19.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1
2.5°	9921.4	9926.2	9926.2	9945.8	9955.5	9960.3	9960.3	9999.3	9984.7	9994.5	10004.2
5°	9780.3	9809.3	9819.2	9819.2	9872.7	9892.1	9911.6	9955.5	9960.3	9989.6	10023.5
7.5°	9643.8	9677.9	9697.5	9741.3	9775.4	9809.3	9867.8	9897.1	9926.2	9965.2	10008.9
10°	9512.4	9551.5	9590.4	9624.4	9677.9	9721.8	9760.7	9828.8	9863.1	9916.5	9974.9
12.5°	9386.0	9439.4	9473.5	9531.8	9590.4	9629.2	9687.7	9751.1	9804.6	9858.0	9926.2
15°	9273.9	9337.3	9376.1	9439.4	9502.8	9556.3	9619.6	9697.5	9736.4	9799.8	9863.1
17.5°	9152.1	9220.5	9269.1	9327.5	9405.4	9463.7	9517.4	9595.1	9643.8	9712.0	9785.1
20°	9025.6	9093.8	9152.1	9210.6	9288.6	9346.8	9410.2	9488.1	9541.7	9609.8	9668.2
22.5°	8874.8	8938.1	9001.2	9069.4	9147.3	9196.0	9269.1	9337.3	9395.6	9458.9	9517.4
25°	8680.1	8758.0	8806.6	8869.8	8933.1	8986.6	9064.6	9132.6	9181.4	9239.8	9293.4
27.5°	8451.2	8509.7	8548.5	8602.1	8665.4	8714.1	8772.4	8840.7	8889.4	8943.0	8981.8
30°	8061.6	8115.4	8149.4	8188.3	8251.6	8295.5	8344.2	8407.4	8441.3	8480.5	8514.6
32.5°	7550.4	7594.4	7613.8	7643.0	7686.9	7730.7	7769.7	7823.2	7837.9	7862.1	7862.1
35°	6810.6	6820.3	6815.5	6825.3	6844.7	6869.0	6903.1	6937.1	6956.6	6956.6	6942.2
37.5°	5944.0	5885.8	5822.4	5773.7	5759.1	5749.3	5768.9	5783.3	5803.0	5812.7	5788.3
40°	5043.5	4912.1	4770.8	4644.2	4556.6	4517.8	4503.2	4512.7	4512.7	4546.8	4546.8
42.5°	4269.5	4064.8	3855.7	3665.7	3539.1	3441.9	3398.1	3398.1	3402.8	3427.3	3441.9
45°	3626.9	3368.8	3125.4	2916.1	2740.8	2614.2	2555.9	2541.3	2536.4	2546.0	2580.1
47.5°	3135.2	2867.4	2614.2	2356.3	2171.4	2044.7	1991.1	1971.6	1952.1	1971.6	1976.5
50°	2750.6	2473.1	2205.3	1947.3	1752.5	1640.5	1572.4	1543.2	1538.3	1538.3	1548.1
52.5°	2400.0	2142.0	1874.4	1611.4	1406.8	1299.8	1236.5	1221.9	1202.5	1221.9	1221.9
55°	2068.9	1811.0	1548.1	1299.8	1129.4	1017.6	959.1	939.6	929.8	944.4	944.4
57.5°	1708.9	1489.6	1246.4	1022.3	852.0	774.1	730.2	705.9	700.9	710.8	700.9
60°	1402.1	1217.1	1007.7	803.4	671.8	589.2	555.1	545.3	535.4	545.3	545.3
62.5°	1109.9	954.2	783.7	628.0	515.9	457.6	418.6	418.6	413.8	413.8	418.6
65°	822.7	700.9	579.3	447.9	360.3	316.3	287.1	287.1	282.4	287.1	282.4
67.5°	598.7	515.9	418.6	326.2	258.1	233.7	214.2	199.6	209.4	199.6	194.7
70°	438.2	369.9	301.7	248.3	199.6	175.4	160.6	155.7	146.0	146.0	146.0
72.5°	292.2	248.3	204.4	160.6	131.4	107.0	102.1	92.6	82.8	87.5	97.4
75°	194.7	165.5	146.0	116.8	87.5	87.5	58.5	58.5	48.7	58.5	43.9
77.5°	136.2	112.0	87.5	72.9	58.5	53.6	38.9	38.9	34.1	34.1	34.1
80°	97.4	82.8	63.3	53.6	38.9	38.9	34.1	29.2	24.3	24.3	29.2
82.5°	58.5	43.9	43.9	38.9	24.3	19.5	14.6	19.5	9.8	9.8	9.8
85°	34.1	29.2	24.3	14.6	9.8	9.8	4.8	0.0	4.8	4.8	0.0
87.5°	19.5	9.8	9.8	4.8	0.0	4.8	4.8	0.0	0.0	0.0	9.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1
2.5°	10028.6	10023.5	10033.4	10033.4	10062.7	10057.6	10072.2	10072.2	10062.7	10067.4	10086.9
5°	10062.7	10077.3	10106.3	10130.7	10174.5	10194.1	10218.4	10242.8	10247.6	10262.2	10276.9
7.5°	10062.7	10111.4	10145.4	10189.1	10247.6	10281.6	10335.2	10379.0	10398.5	10422.7	10451.9
10°	10043.0	10091.7	10155.0	10203.8	10276.9	10330.3	10383.9	10451.9	10481.3	10520.1	10559.1
12.5°	10004.2	10057.6	10125.8	10189.1	10271.8	10320.5	10388.7	10451.9	10495.9	10549.4	10593.2
15°	9945.8	10008.9	10072.2	10135.6	10223.1	10281.6	10344.9	10417.9	10461.8	10520.1	10559.1
17.5°	9853.2	9921.4	9979.9	10038.2	10120.9	10189.1	10247.6	10315.7	10359.6	10408.3	10461.8
20°	9741.3	9804.6	9867.8	9916.5	9999.3	10057.6	10120.9	10184.3	10218.4	10228.2	10311.0
22.5°	9600.2	9643.8	9692.6	9770.5	9819.2	9872.7	9931.2	9989.6	10023.5	10077.3	10106.3
25°	9366.3	9410.2	9463.7	9497.8	9556.3	9600.2	9658.5	9721.8	9741.3	9780.3	9809.3
27.5°	9040.3	9064.6	9089.0	9118.0	9152.1	9176.5	9210.6	9239.8	9259.3	9278.8	9298.2
30°	8524.1	8524.1	8524.1	8504.7	8519.3	8533.9	8538.8	8533.9	8533.9	8529.2	8529.2
32.5°	7842.6	7803.8	7759.9	7721.0	7706.4	7686.9	7677.1	7662.5	7638.3	7623.7	7628.4
35°	6922.5	6834.9	6781.4	6732.8	6693.9	6664.6	6650.0	6635.4	6630.5	6611.1	6591.5
37.5°	5773.7	5710.4	5671.6	5642.3	5608.2	5579.0	5583.7	5588.8	5603.2	5593.6	5598.3
40°	4556.6	4542.0	4556.6	4522.6	4512.7	4522.6	4546.8	4581.1	4600.5	4619.9	4654.0
42.5°	3466.1	3490.4	3524.6	3524.6	3539.1	3558.7	3587.7	3641.5	3670.5	3704.6	3743.7
45°	2609.3	2638.6	2682.5	2696.8	2706.8	2730.9	2765.2	2808.9	2828.4	2857.6	2891.7
47.5°	2010.6	2030.1	2054.2	2078.8	2103.0	2112.8	2146.8	2146.8	2171.4	2190.7	2200.4
50°	1567.6	1587.0	1606.4	1621.0	1630.9	1645.5	1655.1	1669.7	1674.6	1684.4	1689.2
52.5°	1226.7	1251.1	1251.1	1260.8	1275.4	1290.0	1285.2	1290.0	1294.9	1294.9	1309.5
55°	959.1	959.1	973.7	973.7	983.5	978.4	983.5	983.5	983.5	983.5	988.3
57.5°	715.5	720.6	735.2	725.4	720.6	730.2	720.6	730.2	725.4	735.2	720.6
60°	550.0	550.0	555.1	555.1	559.9	559.9	559.9	555.1	555.1	550.0	550.0
62.5°	413.8	418.6	423.6	418.6	418.6	418.6	413.8	413.8	408.9	404.0	404.0
65°	277.5	272.7	282.4	272.7	277.5	277.5	272.7	277.5	262.9	267.8	262.9
67.5°	199.6	194.7	190.0	194.7	190.0	185.0	185.0	190.0	194.7	180.1	180.1
70°	131.4	136.2	131.4	136.2	141.3	141.3	136.2	131.4	136.2	126.7	131.4
72.5°	82.8	82.8	82.8	82.8	82.8	87.5	87.5	87.5	78.0	78.0	72.9
75°	38.9	53.6	43.9	38.9	53.6	53.6	48.7	48.7	43.9	43.9	43.9
77.5°	38.9	29.2	29.2	29.2	29.2	29.2	29.2	29.2	24.3	29.2	24.3
80°	19.5	19.5	19.5	14.6	19.5	19.5	24.3	19.5	19.5	14.6	24.3
82.5°	9.8	9.8	9.8	0.0	4.8	9.8	9.8	4.8	9.8	9.8	4.8
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: P248748

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1
2.5°	10082.0	10077.3	10082.0	10086.9	10082.0	10077.3	10082.0	10086.9	10067.4	10062.7	10072.2
5°	10296.3	10296.3	10305.9	10311.0	10305.9	10296.3	10296.3	10276.9	10262.2	10247.6	10242.8
7.5°	10481.3	10491.1	10500.6	10505.5	10500.6	10491.1	10481.3	10451.9	10422.7	10398.5	10379.0
10°	10593.2	10607.8	10627.3	10636.9	10627.3	10607.8	10593.2	10559.1	10520.1	10481.3	10451.9
12.5°	10641.9	10656.6	10680.9	10676.0	10680.9	10656.6	10641.9	10593.2	10549.4	10495.9	10451.9
15°	10607.8	10627.3	10651.5	10661.4	10651.5	10627.3	10607.8	10559.1	10520.1	10461.8	10417.9
17.5°	10500.6	10529.9	10544.5	10559.1	10544.5	10529.9	10500.6	10461.8	10408.3	10359.6	10315.7
20°	10354.6	10374.2	10393.6	10398.5	10393.6	10374.2	10354.6	10311.0	10228.2	10218.4	10184.3
22.5°	10145.4	10160.0	10203.8	10189.1	10203.8	10160.0	10145.4	10106.3	10077.3	10023.5	9989.6
25°	9843.4	9858.0	9863.1	9867.8	9863.1	9858.0	9843.4	9809.3	9780.3	9741.3	9721.8
27.5°	9322.6	9322.6	9332.2	9337.3	9332.2	9322.6	9322.6	9298.2	9278.8	9259.3	9239.8
30°	8533.9	8533.9	8533.9	8558.4	8533.9	8533.9	8533.9	8529.2	8529.2	8533.9	8533.9
32.5°	7623.7	7613.8	7604.2	7613.8	7604.2	7613.8	7623.7	7628.4	7623.7	7638.3	7662.5
35°	6591.5	6586.6	6601.3	6581.8	6601.3	6586.6	6591.5	6591.5	6611.1	6630.5	6635.4
37.5°	5603.2	5593.6	5613.1	5593.6	5613.1	5593.6	5603.2	5598.3	5593.6	5603.2	5588.8
40°	4663.8	4673.5	4673.5	4712.5	4673.5	4673.5	4663.8	4654.0	4619.9	4600.5	4581.1
42.5°	3763.1	3792.4	3782.6	3811.8	3782.6	3792.4	3763.1	3743.7	3704.6	3670.5	3641.5
45°	2911.2	2930.7	2930.7	2940.4	2930.7	2930.7	2911.2	2891.7	2857.6	2828.4	2808.9
47.5°	2234.5	2234.5	2234.5	2239.4	2234.5	2234.5	2234.5	2200.4	2190.7	2171.4	2146.8
50°	1699.0	1703.8	1708.9	1713.6	1708.9	1703.8	1699.0	1689.2	1684.4	1674.6	1669.7
52.5°	1304.7	1309.5	1299.8	1309.5	1299.8	1309.5	1304.7	1309.5	1294.9	1294.9	1290.0
55°	988.3	983.5	988.3	993.0	988.3	983.5	988.3	988.3	983.5	983.5	983.5
57.5°	725.4	715.5	715.5	715.5	715.5	715.5	725.4	720.6	735.2	725.4	730.2
60°	540.4	545.3	545.3	550.0	545.3	545.3	540.4	550.0	550.0	555.1	555.1
62.5°	399.2	413.8	404.0	413.8	404.0	413.8	399.2	404.0	404.0	408.9	413.8
65°	258.1	258.1	258.1	262.9	258.1	258.1	258.1	262.9	267.8	262.9	277.5
67.5°	175.4	180.1	190.0	185.0	190.0	180.1	175.4	180.1	180.1	194.7	190.0
70°	141.3	126.7	126.7	141.3	126.7	126.7	141.3	131.4	126.7	136.2	131.4
72.5°	82.8	72.9	82.8	82.8	82.8	72.9	82.8	72.9	78.0	78.0	87.5
75°	43.9	38.9	34.1	48.7	34.1	38.9	43.9	43.9	43.9	43.9	48.7
77.5°	29.2	24.3	34.1	34.1	34.1	24.3	29.2	24.3	29.2	24.3	29.2
80°	14.6	19.5	14.6	24.3	14.6	19.5	14.6	24.3	14.6	19.5	19.5
82.5°	4.8	9.8	9.8	9.8	9.8	9.8	4.8	4.8	9.8	9.8	4.8
85°	0.0	9.8	4.8	4.8	4.8	9.8	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	0.0	0.0	4.8	0.0	0.0	4.8	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: P248748

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1
2.5°	10072.2	10057.6	10062.7	10033.4	10033.4	10023.5	10028.6	10004.2	9994.5	9984.7	9999.3
5°	10218.4	10194.1	10174.5	10130.7	10106.3	10077.3	10062.7	10023.5	9989.6	9960.3	9955.5
7.5°	10335.2	10281.6	10247.6	10189.1	10145.4	10111.4	10062.7	10008.9	9965.2	9926.2	9897.1
10°	10383.9	10330.3	10276.9	10203.8	10155.0	10091.7	10043.0	9974.9	9916.5	9863.1	9828.8
12.5°	10388.7	10320.5	10271.8	10189.1	10125.8	10057.6	10004.2	9926.2	9858.0	9804.6	9751.1
15°	10344.9	10281.6	10223.1	10135.6	10072.2	10008.9	9945.8	9863.1	9799.8	9736.4	9697.5
17.5°	10247.6	10189.1	10120.9	10038.2	9979.9	9921.4	9853.2	9785.1	9712.0	9643.8	9595.1
20°	10120.9	10057.6	9999.3	9916.5	9867.8	9804.6	9741.3	9668.2	9609.8	9541.7	9488.1
22.5°	9931.2	9872.7	9819.2	9770.5	9692.6	9643.8	9600.2	9517.4	9458.9	9395.6	9337.3
25°	9658.5	9600.2	9556.3	9497.8	9463.7	9410.2	9366.3	9293.4	9239.8	9181.4	9132.6
27.5°	9210.6	9176.5	9152.1	9118.0	9089.0	9064.6	9040.3	8981.8	8943.0	8889.4	8840.7
30°	8538.8	8533.9	8519.3	8504.7	8524.1	8524.1	8524.1	8514.6	8480.5	8441.3	8407.4
32.5°	7677.1	7686.9	7706.4	7721.0	7759.9	7803.8	7842.6	7862.1	7862.1	7837.9	7823.2
35°	6650.0	6664.6	6693.9	6732.8	6781.4	6834.9	6922.5	6942.2	6956.6	6956.6	6937.1
37.5°	5583.7	5579.0	5608.2	5642.3	5671.6	5710.4	5773.7	5788.3	5812.7	5803.0	5783.3
40°	4546.8	4522.6	4512.7	4522.6	4556.6	4542.0	4556.6	4546.8	4546.8	4512.7	4512.7
42.5°	3587.7	3558.7	3539.1	3524.6	3524.6	3490.4	3466.1	3441.9	3427.3	3402.8	3398.1
45°	2765.2	2730.9	2706.8	2696.8	2682.5	2638.6	2609.3	2580.1	2546.0	2536.4	2541.3
47.5°	2146.8	2112.8	2103.0	2078.8	2054.2	2030.1	2010.6	1976.5	1971.6	1952.1	1971.6
50°	1655.1	1645.5	1630.9	1621.0	1606.4	1587.0	1567.6	1548.1	1538.3	1538.3	1543.2
52.5°	1285.2	1290.0	1275.4	1260.8	1251.1	1251.1	1226.7	1221.9	1221.9	1202.5	1221.9
55°	983.5	978.4	983.5	973.7	973.7	959.1	959.1	944.4	944.4	929.8	939.6
57.5°	720.6	730.2	720.6	725.4	735.2	720.6	715.5	700.9	710.8	700.9	705.9
60°	559.9	559.9	559.9	555.1	555.1	550.0	550.0	545.3	545.3	535.4	545.3
62.5°	413.8	418.6	418.6	418.6	423.6	418.6	413.8	418.6	413.8	413.8	418.6
65°	272.7	277.5	277.5	272.7	282.4	272.7	277.5	282.4	287.1	282.4	287.1
67.5°	185.0	185.0	190.0	194.7	190.0	194.7	199.6	194.7	199.6	209.4	199.6
70°	136.2	141.3	141.3	136.2	131.4	136.2	131.4	146.0	146.0	146.0	155.7
72.5°	87.5	87.5	82.8	82.8	82.8	82.8	82.8	97.4	87.5	82.8	92.6
75°	48.7	53.6	53.6	38.9	43.9	53.6	38.9	43.9	58.5	48.7	58.5
77.5°	29.2	29.2	29.2	29.2	29.2	29.2	38.9	34.1	34.1	34.1	38.9
80°	24.3	19.5	19.5	14.6	19.5	19.5	19.5	29.2	24.3	24.3	29.2
82.5°	9.8	9.8	4.8	0.0	9.8	9.8	9.8	9.8	9.8	9.8	19.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	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: P248748

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1
2.5°	9960.3	9960.3	9955.5	9945.8	9926.2	9926.2	9921.4	9906.8	9897.1	9892.1	9892.1
5°	9911.6	9892.1	9872.7	9819.2	9819.2	9809.3	9780.3	9760.7	9751.1	9726.6	9717.0
7.5°	9867.8	9809.3	9775.4	9741.3	9697.5	9677.9	9643.8	9629.2	9595.1	9570.9	9556.3
10°	9760.7	9721.8	9677.9	9624.4	9590.4	9551.5	9512.4	9483.3	9439.4	9415.0	9395.6
12.5°	9687.7	9629.2	9590.4	9531.8	9473.5	9439.4	9386.0	9351.9	9308.0	9259.3	9230.1
15°	9619.6	9556.3	9502.8	9439.4	9376.1	9337.3	9273.9	9235.1	9171.8	9123.1	9089.0
17.5°	9517.4	9463.7	9405.4	9327.5	9269.1	9220.5	9152.1	9103.6	9045.1	8981.8	8947.7
20°	9410.2	9346.8	9288.6	9210.6	9152.1	9093.8	9025.6	8972.2	8903.8	8845.5	8806.6
22.5°	9269.1	9196.0	9147.3	9069.4	9001.2	8938.1	8874.8	8811.4	8748.1	8699.5	8655.5
25°	9064.6	8986.6	8933.1	8869.8	8806.6	8758.0	8680.1	8641.1	8577.8	8533.9	8490.0
27.5°	8772.4	8714.1	8665.4	8602.1	8548.5	8509.7	8451.2	8412.3	8358.6	8319.7	8285.6
30°	8344.2	8295.5	8251.6	8188.3	8149.4	8115.4	8061.6	8027.6	7988.7	7944.9	7935.2
32.5°	7769.7	7730.7	7686.9	7643.0	7613.8	7594.4	7550.4	7531.1	7492.2	7467.8	7443.4
35°	6903.1	6869.0	6844.7	6825.3	6815.5	6820.3	6810.6	6830.1	6839.8	6834.9	6839.8
37.5°	5768.9	5749.3	5759.1	5773.7	5822.4	5885.8	5944.0	6031.6	6090.1	6148.7	6202.1
40°	4503.2	4517.8	4556.6	4644.2	4770.8	4912.1	5043.5	5209.1	5374.6	5491.3	5598.3
42.5°	3398.1	3441.9	3539.1	3665.7	3855.7	4064.8	4269.5	4512.7	4712.5	4907.1	5043.5
45°	2555.9	2614.2	2740.8	2916.1	3125.4	3368.8	3626.9	3899.4	4138.0	4337.7	4488.5
47.5°	1991.1	2044.7	2171.4	2356.3	2614.2	2867.4	3135.2	3417.4	3665.7	3860.6	3992.0
50°	1572.4	1640.5	1752.5	1947.3	2205.3	2473.1	2750.6	3027.9	3261.8	3427.3	3544.1
52.5°	1236.5	1299.8	1406.8	1611.4	1874.4	2142.0	2400.0	2672.7	2877.1	3037.7	3115.7
55°	959.1	1017.6	1129.4	1299.8	1548.1	1811.0	2068.9	2302.8	2492.5	2609.3	2682.5
57.5°	730.2	774.1	852.0	1022.3	1246.4	1489.6	1708.9	1942.4	2088.6	2171.4	2219.8
60°	555.1	589.2	671.8	803.4	1007.7	1217.1	1402.1	1577.4	1694.2	1762.3	1811.0
62.5°	418.6	457.6	515.9	628.0	783.7	954.2	1109.9	1241.3	1338.8	1382.6	1416.7
65°	287.1	316.3	360.3	447.9	579.3	700.9	822.7	920.1	983.5	1032.2	1051.5
67.5°	214.2	233.7	258.1	326.2	418.6	515.9	598.7	666.9	735.2	754.6	788.7
70°	160.6	175.4	199.6	248.3	301.7	369.9	438.2	477.1	525.8	559.9	569.7
72.5°	102.1	107.0	131.4	160.6	204.4	248.3	292.2	326.2	355.5	375.0	384.5
75°	58.5	87.5	87.5	116.8	146.0	165.5	194.7	219.0	233.7	248.3	248.3
77.5°	38.9	53.6	58.5	72.9	87.5	112.0	136.2	150.9	165.5	170.3	170.3
80°	34.1	38.9	38.9	53.6	63.3	82.8	97.4	102.1	112.0	116.8	126.7
82.5°	14.6	19.5	24.3	38.9	43.9	43.9	58.5	63.3	72.9	78.0	78.0
85°	4.8	9.8	9.8	14.6	24.3	29.2	34.1	38.9	43.9	43.9	48.7
87.5°	4.8	4.8	0.0	4.8	9.8	9.8	19.5	19.5	19.5	29.2	29.2
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: P248748

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1	9970.1
2.5°	9882.4	9887.3	9867.8	9863.1	9853.2	9858.0	9867.8
5°	9702.3	9707.2	9687.7	9668.2	9668.2	9663.3	9668.2
7.5°	9531.8	9536.8	9507.6	9497.8	9478.4	9483.3	9483.3
10°	9361.5	9361.5	9317.8	9312.9	9298.2	9293.4	9293.4
12.5°	9196.0	9181.4	9147.3	9127.9	9137.7	9108.4	9108.4
15°	9049.9	9025.6	8981.8	8967.2	8943.0	8933.1	8933.1
17.5°	8899.1	8879.6	8840.7	8811.4	8782.2	8777.4	8782.2
20°	8752.9	8733.5	8684.9	8665.4	8641.1	8641.1	8631.3
22.5°	8606.9	8587.5	8543.8	8529.2	8495.1	8495.1	8499.9
25°	8455.9	8441.3	8392.7	8383.1	8378.2	8358.6	8368.4
27.5°	8251.6	8241.8	8202.9	8188.3	8168.8	8164.0	8173.7
30°	7876.7	7862.1	7833.0	7818.4	7784.3	7789.2	7798.7
32.5°	7409.5	7390.0	7350.9	7336.2	7307.2	7297.4	7302.3
35°	6825.3	6810.6	6776.7	6776.7	6747.4	6737.5	6747.4
37.5°	6231.4	6245.8	6231.4	6245.8	6231.4	6226.4	6231.4
40°	5671.6	5725.0	5734.7	5788.3	5768.9	5798.0	5793.2
42.5°	5136.0	5223.5	5257.8	5301.4	5291.8	5311.2	5325.9
45°	4595.5	4668.6	4702.7	4732.0	4736.8	4746.6	4751.4
47.5°	4084.3	4142.8	4147.7	4181.7	4176.9	4176.9	4191.5
50°	3607.4	3646.4	3655.9	3680.3	3661.0	3651.1	3655.9
52.5°	3164.4	3203.2	3193.4	3203.2	3179.0	3169.2	3174.0
55°	2711.5	2730.9	2730.9	2730.9	2701.9	2701.9	2701.9
57.5°	2249.1	2254.0	2244.3	2249.1	2244.3	2215.0	2210.2
60°	1825.6	1825.6	1820.7	1825.6	1811.0	1796.4	1796.4
62.5°	1426.3	1436.1	1455.5	1436.1	1426.3	1436.1	1421.4
65°	1066.2	1085.6	1080.7	1090.5	1085.6	1085.6	1075.8
67.5°	803.4	808.1	812.9	818.0	818.0	818.0	818.0
70°	589.2	603.8	598.7	598.7	598.7	598.7	628.0
72.5°	394.3	413.8	408.9	418.6	418.6	428.4	418.6
75°	267.8	287.1	277.5	292.2	287.1	277.5	301.7
77.5°	180.1	190.0	194.7	199.6	194.7	190.0	194.7
80°	126.7	136.2	131.4	136.2	136.2	136.2	141.3
82.5°	78.0	92.6	87.5	92.6	87.5	92.6	92.6
85°	53.6	58.5	48.7	58.5	53.6	53.6	63.3
87.5°	34.1	29.2	29.2	34.1	29.2	34.1	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)