

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: P248865

Luminaire Tested: **LD8B200D010 ER8B200930 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248865  
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 ER8B200930 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16529.1 lumens  
Efficiency: N/A  
Efficacy: 74.0 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

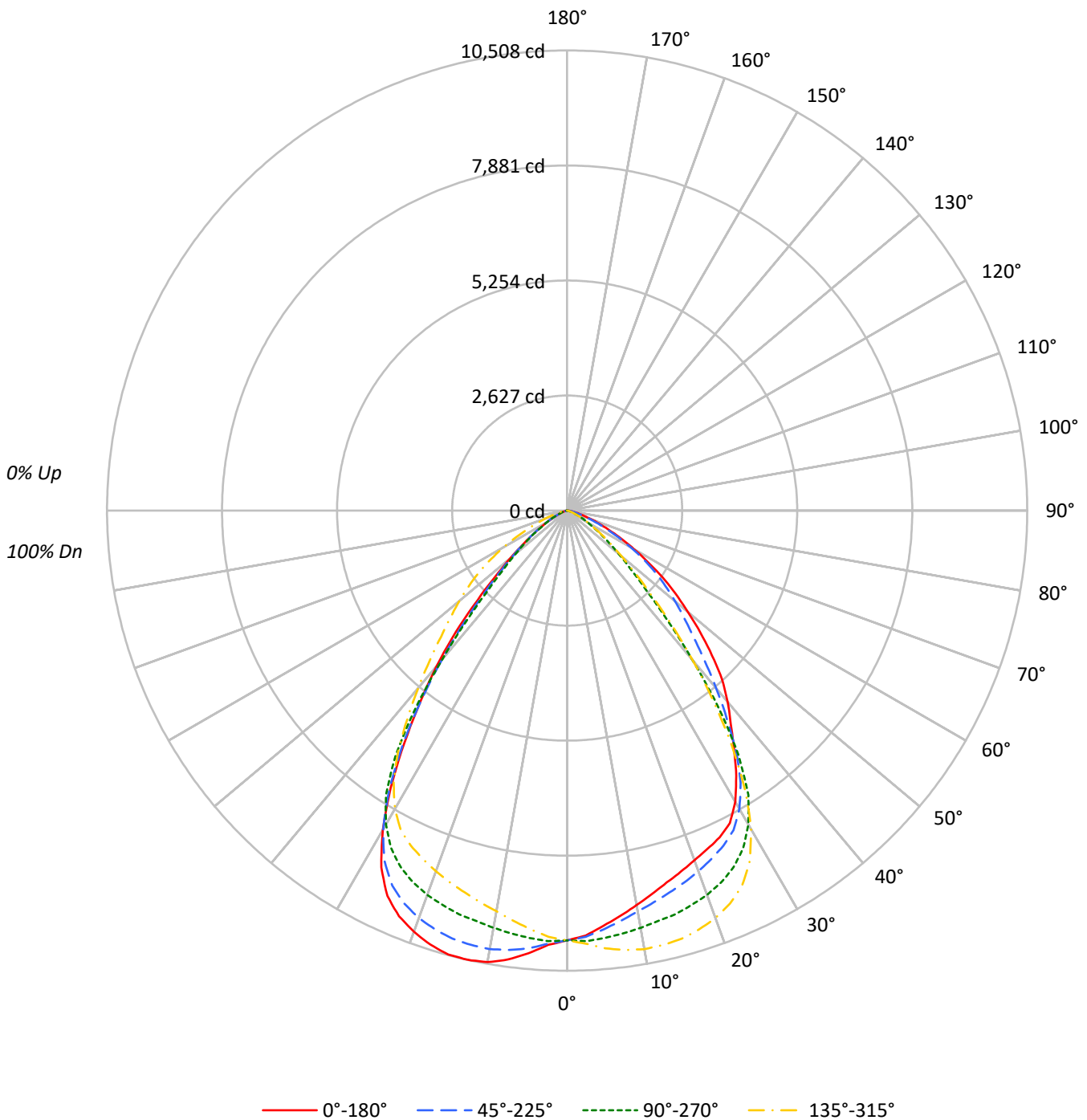
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	934.0	5.7
10°-20°	2704.7	16.4
20°-30°	4095.5	24.8
30°-40°	4104.6	24.8
40°-50°	2577.5	15.6
50°-60°	1373.6	8.3
60°-70°	564.8	3.4
70°-80°	149.2	0.9
80°-90°	25.2	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°	7734.1	46.8
0°-40°	11838.8	71.6
0°-60°	15789.9	95.5
0°-90°	16529.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16529.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9813	9813	9813	9813	9813	
5°	9516	9798	10148	9798	9516	897
15°	8792	9545	10493	9545	8792	2487
25°	8236	8989	9712	8989	8236	3778
35°	6641	6828	6478	6828	6641	4161
45°	4676	2501	2894	2501	4676	3597
55°	2659	925	977	925	2659	2371
65°	1059	283	259	283	1059	1098
75°	297	58	48	58	297	337
85°	62	0	5	0	62	68
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°	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8
2.5°	9712.2	9702.6	9697.9	9707.5	9712.2	9731.4	9726.7	9736.1	9736.1	9741.0	9750.5
5°	9515.8	9510.9	9515.8	9515.8	9535.0	9554.1	9549.4	9563.7	9573.2	9597.2	9606.7
7.5°	9333.8	9333.8	9328.8	9348.0	9357.7	9386.5	9381.5	9405.5	9420.0	9443.9	9477.4
10°	9146.8	9146.8	9151.5	9166.0	9170.9	9213.8	9213.8	9247.4	9266.5	9290.6	9333.8
12.5°	8964.7	8964.7	8993.6	8983.9	9003.1	9036.6	9051.0	9084.5	9113.3	9161.3	9204.4
15°	8792.2	8792.2	8801.9	8825.7	8840.1	8883.4	8907.2	8945.7	8979.2	9027.1	9089.4
17.5°	8643.7	8639.0	8643.7	8672.5	8701.3	8739.5	8758.7	8806.6	8840.1	8902.4	8960.0
20°	8495.2	8504.9	8504.9	8528.8	8547.8	8595.8	8614.9	8667.8	8706.0	8763.4	8830.7
22.5°	8365.8	8361.1	8361.1	8394.6	8409.1	8452.0	8471.2	8519.0	8562.3	8610.2	8672.5
25°	8236.4	8226.8	8246.1	8250.9	8260.3	8308.3	8322.6	8356.2	8399.3	8442.6	8504.9
27.5°	8044.7	8035.3	8040.0	8059.2	8073.6	8111.8	8121.5	8155.1	8188.6	8226.8	8279.6
30°	7675.7	7666.3	7661.6	7695.1	7709.5	7738.0	7752.5	7810.1	7819.5	7862.7	7901.0
32.5°	7187.1	7182.4	7192.0	7220.6	7234.9	7273.4	7292.6	7326.1	7349.9	7374.1	7412.3
35°	6640.9	6631.3	6640.9	6669.7	6669.7	6703.2	6717.7	6731.8	6727.1	6731.8	6722.4
37.5°	6133.1	6128.2	6133.1	6147.3	6133.1	6147.3	6133.1	6104.3	6051.7	5994.1	5936.5
40°	5701.9	5706.6	5678.0	5697.0	5644.2	5634.7	5582.1	5510.1	5404.8	5289.8	5126.9
42.5°	5241.9	5227.4	5208.4	5217.8	5174.9	5141.1	5054.9	4964.0	4829.7	4638.2	4441.5
45°	4676.5	4671.8	4662.0	4657.3	4628.5	4595.0	4523.0	4417.7	4269.2	4072.8	3837.9
47.5°	4125.4	4111.0	4111.0	4115.8	4082.2	4077.5	4019.9	3929.0	3799.6	3607.9	3363.6
50°	3598.3	3593.5	3603.2	3622.3	3598.3	3588.8	3550.5	3488.2	3373.2	3210.3	2980.2
52.5°	3124.0	3119.2	3128.9	3152.7	3143.1	3152.7	3114.5	3066.6	2989.8	2831.6	2630.5
55°	2659.3	2659.3	2659.3	2687.9	2687.9	2687.9	2668.8	2640.2	2568.2	2453.2	2266.4
57.5°	2175.3	2180.0	2208.8	2213.6	2208.8	2218.6	2213.6	2184.8	2137.1	2055.6	1911.9
60°	1768.0	1768.0	1782.5	1796.9	1791.9	1796.9	1796.9	1782.5	1734.5	1667.5	1552.5
62.5°	1399.1	1413.5	1403.8	1413.5	1432.6	1413.5	1403.8	1394.3	1360.8	1317.6	1221.8
65°	1058.9	1068.5	1068.5	1073.2	1063.6	1068.5	1049.4	1035.0	1015.9	968.0	905.7
67.5°	805.1	805.1	805.1	805.1	800.2	795.3	790.6	776.3	742.8	723.6	656.3
70°	618.1	589.3	589.3	589.3	589.3	594.2	579.8	560.7	551.1	517.5	469.6
72.5°	412.0	421.6	412.0	412.0	402.6	407.3	388.1	378.4	369.0	349.9	321.1
75°	297.1	273.2	282.6	287.5	273.2	282.6	263.4	244.4	244.4	229.9	215.6
77.5°	191.7	187.0	191.7	196.4	191.7	187.0	177.3	167.6	167.6	162.9	148.5
80°	139.0	134.1	134.1	134.1	129.4	134.1	124.7	124.7	115.0	110.2	100.6
82.5°	91.1	91.1	86.2	91.1	86.2	91.1	76.7	76.7	76.7	71.7	62.3
85°	62.3	52.7	52.7	57.6	48.0	57.6	52.7	48.0	43.2	43.2	38.2
87.5°	28.8	33.5	28.8	33.5	28.8	28.8	33.5	28.8	28.8	19.2	19.2
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°	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8
2.5°	9764.9	9769.6	9769.6	9789.0	9798.4	9803.1	9803.1	9841.6	9827.2	9836.9	9846.3
5°	9626.0	9654.6	9664.4	9664.4	9716.9	9736.1	9755.3	9798.4	9803.1	9832.0	9865.5
7.5°	9491.7	9525.2	9544.6	9587.6	9621.1	9654.6	9712.2	9741.0	9769.6	9808.1	9851.1
10°	9362.4	9400.8	9439.0	9472.7	9525.2	9568.5	9606.7	9673.8	9707.5	9760.2	9817.6
12.5°	9237.9	9290.6	9324.1	9381.5	9439.0	9477.4	9535.0	9597.2	9649.9	9702.6	9769.6
15°	9127.7	9190.0	9228.3	9290.6	9353.0	9405.5	9467.9	9544.6	9582.9	9645.2	9707.5
17.5°	9007.8	9075.1	9122.9	9180.3	9257.1	9314.5	9367.3	9443.9	9491.7	9558.8	9630.8
20°	8883.4	8950.4	9007.8	9065.4	9142.1	9199.5	9261.8	9338.5	9391.2	9458.2	9515.8
22.5°	8734.8	8797.2	8859.3	8926.3	9003.1	9051.0	9122.9	9190.0	9247.4	9309.7	9367.3
25°	8543.1	8619.8	8667.8	8729.9	8792.2	8844.9	8921.6	8988.6	9036.6	9094.1	9146.8
27.5°	8317.9	8375.6	8413.8	8466.5	8528.8	8576.7	8634.1	8701.3	8749.2	8801.9	8840.1
30°	7934.6	7987.3	8020.9	8059.2	8121.5	8164.7	8212.6	8274.8	8308.3	8346.7	8380.3
32.5°	7431.4	7474.6	7493.8	7522.5	7565.7	7608.7	7647.1	7699.8	7714.3	7738.0	7738.0
35°	6703.2	6712.8	6708.1	6717.7	6736.8	6760.6	6794.2	6827.7	6846.8	6846.8	6832.6
37.5°	5850.3	5792.9	5730.6	5682.7	5668.2	5658.6	5678.0	5692.1	5711.5	5720.9	5697.0
40°	4964.0	4834.6	4695.5	4571.0	4484.8	4446.4	4432.1	4441.5	4441.5	4475.1	4475.1
42.5°	4202.2	4000.7	3794.9	3607.9	3483.3	3387.7	3344.4	3344.4	3349.2	3373.2	3387.7
45°	3569.7	3315.7	3076.0	2870.1	2697.6	2572.9	2515.5	2501.2	2496.4	2505.9	2539.4
47.5°	3085.7	2822.2	2572.9	2319.1	2137.1	2012.4	1959.7	1940.5	1921.3	1940.5	1945.4
50°	2707.2	2434.0	2170.6	1916.6	1724.9	1614.6	1547.5	1518.7	1514.0	1514.0	1523.7
52.5°	2362.1	2108.3	1844.8	1586.0	1384.7	1279.4	1217.1	1202.6	1183.6	1202.6	1202.6
55°	2036.3	1782.5	1523.7	1279.4	1111.5	1001.5	943.9	924.7	915.1	929.5	929.5
57.5°	1681.8	1466.2	1226.7	1006.2	838.6	761.8	718.7	694.8	689.9	699.5	689.9
60°	1380.0	1197.9	991.9	790.6	661.3	579.8	546.3	536.6	527.0	536.6	536.6
62.5°	1092.4	939.2	771.4	618.1	507.8	450.4	412.0	412.0	407.3	407.3	412.0
65°	809.8	689.9	570.1	440.8	354.6	311.4	282.6	282.6	277.9	282.6	277.9
67.5°	589.3	507.8	412.0	321.1	254.0	229.9	210.9	196.4	206.0	196.4	191.7
70°	431.4	364.1	297.1	244.4	196.4	172.5	158.2	153.2	143.8	143.8	143.8
72.5°	287.5	244.4	201.1	158.2	129.4	105.3	100.6	91.1	81.5	86.2	95.8
75°	191.7	162.9	143.8	115.0	86.2	86.2	57.6	57.6	48.0	57.6	43.2
77.5°	134.1	110.2	86.2	71.7	57.6	52.7	38.2	38.2	33.5	33.5	33.5
80°	95.8	81.5	62.3	52.7	38.2	38.2	33.5	28.8	23.9	23.9	28.8
82.5°	57.6	43.2	43.2	38.2	23.9	19.2	14.3	19.2	9.6	9.6	9.6
85°	33.5	28.8	23.9	14.3	9.6	9.6	4.7	0.0	4.7	4.7	0.0
87.5°	19.2	9.6	9.6	4.7	0.0	4.7	4.7	0.0	0.0	0.0	9.6
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°	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8
2.5°	9870.4	9865.5	9875.1	9875.1	9903.9	9899.0	9913.5	9913.5	9903.9	9908.6	9927.8
5°	9903.9	9918.4	9947.0	9971.0	10014.0	10033.3	10057.2	10081.3	10086.0	10100.3	10114.8
7.5°	9903.9	9951.9	9985.4	10028.4	10086.0	10119.5	10172.2	10215.3	10234.5	10258.4	10287.2
10°	9884.6	9932.5	9994.8	10042.8	10114.8	10167.5	10220.0	10287.2	10315.9	10354.2	10392.7
12.5°	9846.3	9899.0	9966.0	10028.4	10109.9	10157.7	10224.9	10287.2	10330.4	10383.0	10426.2
15°	9789.0	9851.1	9913.5	9975.8	10061.9	10119.5	10181.8	10253.6	10296.8	10354.2	10392.7
17.5°	9697.9	9764.9	9822.5	9879.9	9961.3	10028.4	10086.0	10153.0	10196.3	10244.1	10296.8
20°	9587.6	9649.9	9712.2	9760.2	9841.6	9899.0	9961.3	10023.6	10057.2	10066.8	10148.3
22.5°	9448.8	9491.7	9539.7	9616.4	9664.4	9716.9	9774.6	9832.0	9865.5	9918.4	9947.0
25°	9218.7	9261.8	9314.5	9348.0	9405.5	9448.8	9506.2	9568.5	9587.6	9626.0	9654.6
27.5°	8897.7	8921.6	8945.7	8974.3	9007.8	9031.9	9065.4	9094.1	9113.3	9132.5	9151.5
30°	8389.7	8389.7	8389.7	8370.6	8385.0	8399.3	8404.1	8399.3	8399.3	8394.6	8394.6
32.5°	7719.0	7680.6	7637.5	7599.3	7584.8	7565.7	7556.1	7541.6	7517.8	7503.4	7508.1
35°	6813.3	6727.1	6674.4	6626.6	6588.3	6559.5	6545.1	6530.7	6526.0	6506.8	6487.6
37.5°	5682.7	5620.4	5582.1	5553.3	5519.8	5491.0	5495.7	5500.6	5514.9	5505.3	5510.1
40°	4484.8	4470.3	4484.8	4451.3	4441.5	4451.3	4475.1	4508.8	4527.9	4547.1	4580.6
42.5°	3411.5	3435.3	3469.0	3469.0	3483.3	3502.6	3531.3	3584.1	3612.6	3646.2	3684.6
45°	2568.2	2597.0	2640.2	2654.4	2664.1	2687.9	2721.7	2764.6	2783.8	2812.6	2846.1
47.5°	1978.9	1998.1	2021.8	2045.9	2069.8	2079.5	2113.0	2113.0	2137.1	2156.2	2165.7
50°	1542.8	1562.0	1581.1	1595.5	1605.2	1619.5	1629.0	1643.4	1648.2	1657.8	1662.6
52.5°	1207.4	1231.4	1231.4	1240.9	1255.3	1269.6	1264.9	1269.6	1274.5	1274.5	1288.8
55°	943.9	943.9	958.3	958.3	968.0	963.1	968.0	968.0	968.0	968.0	972.7
57.5°	704.3	709.1	723.6	714.0	709.1	718.7	709.1	718.7	714.0	723.6	709.1
60°	541.3	541.3	546.3	546.3	551.1	551.1	551.1	546.3	546.3	541.3	541.3
62.5°	407.3	412.0	416.9	412.0	412.0	412.0	407.3	407.3	402.6	397.6	397.6
65°	273.2	268.4	277.9	268.4	273.2	273.2	268.4	273.2	258.7	263.4	258.7
67.5°	196.4	191.7	187.0	191.7	187.0	182.1	182.1	187.0	191.7	177.3	177.3
70°	129.4	134.1	129.4	134.1	139.0	139.0	134.1	129.4	134.1	124.7	129.4
72.5°	81.5	81.5	81.5	81.5	81.5	86.2	86.2	86.2	76.7	76.7	71.7
75°	38.2	52.7	43.2	38.2	52.7	52.7	48.0	48.0	43.2	43.2	43.2
77.5°	38.2	28.8	28.8	28.8	28.8	28.8	28.8	28.8	23.9	28.8	23.9
80°	19.2	19.2	19.2	14.3	19.2	19.2	23.9	19.2	19.2	14.3	23.9
82.5°	9.6	9.6	9.6	0.0	4.7	9.6	9.6	4.7	9.6	9.6	4.7
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: P248865

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8
2.5°	9923.1	9918.4	9923.1	9927.8	9923.1	9918.4	9923.1	9927.8	9908.6	9903.9	9913.5
5°	10134.0	10134.0	10143.4	10148.3	10143.4	10134.0	10134.0	10114.8	10100.3	10086.0	10081.3
7.5°	10315.9	10325.6	10335.1	10339.8	10335.1	10325.6	10315.9	10287.2	10258.4	10234.5	10215.3
10°	10426.2	10440.5	10459.7	10469.1	10459.7	10440.5	10426.2	10392.7	10354.2	10315.9	10287.2
12.5°	10474.1	10488.5	10512.4	10507.6	10512.4	10488.5	10474.1	10426.2	10383.0	10330.4	10287.2
15°	10440.5	10459.7	10483.6	10493.2	10483.6	10459.7	10440.5	10392.7	10354.2	10296.8	10253.6
17.5°	10335.1	10363.9	10378.2	10392.7	10378.2	10363.9	10335.1	10296.8	10244.1	10196.3	10153.0
20°	10191.3	10210.6	10229.8	10234.5	10229.8	10210.6	10191.3	10148.3	10066.8	10057.2	10023.6
22.5°	9985.4	9999.8	10042.8	10028.4	10042.8	9999.8	9985.4	9947.0	9918.4	9865.5	9832.0
25°	9688.2	9702.6	9707.5	9712.2	9707.5	9702.6	9688.2	9654.6	9626.0	9587.6	9568.5
27.5°	9175.6	9175.6	9185.1	9190.0	9185.1	9175.6	9175.6	9151.5	9132.5	9113.3	9094.1
30°	8399.3	8399.3	8399.3	8423.4	8399.3	8399.3	8399.3	8394.6	8394.6	8399.3	8399.3
32.5°	7503.4	7493.8	7484.2	7493.8	7484.2	7493.8	7503.4	7508.1	7503.4	7517.8	7541.6
35°	6487.6	6482.7	6497.2	6478.0	6497.2	6482.7	6487.6	6487.6	6506.8	6526.0	6530.7
37.5°	5514.9	5505.3	5524.5	5505.3	5524.5	5505.3	5514.9	5510.1	5505.3	5514.9	5500.6
40°	4590.3	4599.7	4599.7	4638.2	4599.7	4599.7	4590.3	4580.6	4547.1	4527.9	4508.8
42.5°	3703.8	3732.6	3723.0	3751.7	3723.0	3732.6	3703.8	3684.6	3646.2	3612.6	3584.1
45°	2865.2	2884.6	2884.6	2894.0	2884.6	2884.6	2865.2	2846.1	2812.6	2783.8	2764.6
47.5°	2199.2	2199.2	2199.2	2204.1	2199.2	2199.2	2199.2	2165.7	2156.2	2137.1	2113.0
50°	1672.2	1676.9	1681.8	1686.7	1681.8	1676.9	1672.2	1662.6	1657.8	1648.2	1643.4
52.5°	1284.1	1288.8	1279.4	1288.8	1279.4	1288.8	1284.1	1288.8	1274.5	1274.5	1269.6
55°	972.7	968.0	972.7	977.4	972.7	968.0	972.7	972.7	968.0	968.0	968.0
57.5°	714.0	704.3	704.3	704.3	704.3	704.3	714.0	709.1	723.6	714.0	718.7
60°	531.9	536.6	536.6	541.3	536.6	536.6	531.9	541.3	541.3	546.3	546.3
62.5°	392.9	407.3	397.6	407.3	397.6	407.3	392.9	397.6	397.6	402.6	407.3
65°	254.0	254.0	254.0	258.7	254.0	254.0	254.0	258.7	263.4	258.7	273.2
67.5°	172.5	177.3	187.0	182.1	187.0	177.3	172.5	177.3	177.3	191.7	187.0
70°	139.0	124.7	124.7	139.0	124.7	124.7	139.0	129.4	124.7	134.1	129.4
72.5°	81.5	71.7	81.5	81.5	81.5	71.7	81.5	71.7	76.7	76.7	86.2
75°	43.2	38.2	33.5	48.0	33.5	38.2	43.2	43.2	43.2	43.2	48.0
77.5°	28.8	23.9	33.5	33.5	33.5	23.9	28.8	23.9	28.8	23.9	28.8
80°	14.3	19.2	14.3	23.9	14.3	19.2	14.3	23.9	14.3	19.2	19.2
82.5°	4.7	9.6	9.6	9.6	9.6	9.6	4.7	4.7	9.6	9.6	4.7
85°	0.0	9.6	4.7	4.7	4.7	9.6	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	0.0	0.0	4.7	0.0	0.0	4.7	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: P248865

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8
2.5°	9913.5	9899.0	9903.9	9875.1	9875.1	9865.5	9870.4	9846.3	9836.9	9827.2	9841.6
5°	10057.2	10033.3	10014.0	9971.0	9947.0	9918.4	9903.9	9865.5	9832.0	9803.1	9798.4
7.5°	10172.2	10119.5	10086.0	10028.4	9985.4	9951.9	9903.9	9851.1	9808.1	9769.6	9741.0
10°	10220.0	10167.5	10114.8	10042.8	9994.8	9932.5	9884.6	9817.6	9760.2	9707.5	9673.8
12.5°	10224.9	10157.7	10109.9	10028.4	9966.0	9899.0	9846.3	9769.6	9702.6	9649.9	9597.2
15°	10181.8	10119.5	10061.9	9975.8	9913.5	9851.1	9789.0	9707.5	9645.2	9582.9	9544.6
17.5°	10086.0	10028.4	9961.3	9879.9	9822.5	9764.9	9697.9	9630.8	9558.8	9491.7	9443.9
20°	9961.3	9899.0	9841.6	9760.2	9712.2	9649.9	9587.6	9515.8	9458.2	9391.2	9338.5
22.5°	9774.6	9716.9	9664.4	9616.4	9539.7	9491.7	9448.8	9367.3	9309.7	9247.4	9190.0
25°	9506.2	9448.8	9405.5	9348.0	9314.5	9261.8	9218.7	9146.8	9094.1	9036.6	8988.6
27.5°	9065.4	9031.9	9007.8	8974.3	8945.7	8921.6	8897.7	8840.1	8801.9	8749.2	8701.3
30°	8404.1	8399.3	8385.0	8370.6	8389.7	8389.7	8389.7	8380.3	8346.7	8308.3	8274.8
32.5°	7556.1	7565.7	7584.8	7599.3	7637.5	7680.6	7719.0	7738.0	7738.0	7714.3	7699.8
35°	6545.1	6559.5	6588.3	6626.6	6674.4	6727.1	6813.3	6832.6	6846.8	6846.8	6827.7
37.5°	5495.7	5491.0	5519.8	5553.3	5582.1	5620.4	5682.7	5697.0	5720.9	5711.5	5692.1
40°	4475.1	4451.3	4441.5	4451.3	4484.8	4470.3	4484.8	4475.1	4475.1	4441.5	4441.5
42.5°	3531.3	3502.6	3483.3	3469.0	3469.0	3435.3	3411.5	3387.7	3373.2	3349.2	3344.4
45°	2721.7	2687.9	2664.1	2654.4	2640.2	2597.0	2568.2	2539.4	2505.9	2496.4	2501.2
47.5°	2113.0	2079.5	2069.8	2045.9	2021.8	1998.1	1978.9	1945.4	1940.5	1921.3	1940.5
50°	1629.0	1619.5	1605.2	1595.5	1581.1	1562.0	1542.8	1523.7	1514.0	1514.0	1518.7
52.5°	1264.9	1269.6	1255.3	1240.9	1231.4	1231.4	1207.4	1202.6	1202.6	1183.6	1202.6
55°	968.0	963.1	968.0	958.3	958.3	943.9	943.9	929.5	929.5	915.1	924.7
57.5°	709.1	718.7	709.1	714.0	723.6	709.1	704.3	689.9	699.5	689.9	694.8
60°	551.1	551.1	551.1	546.3	546.3	541.3	541.3	536.6	536.6	527.0	536.6
62.5°	407.3	412.0	412.0	412.0	416.9	412.0	407.3	412.0	407.3	407.3	412.0
65°	268.4	273.2	273.2	268.4	277.9	268.4	273.2	277.9	282.6	277.9	282.6
67.5°	182.1	182.1	187.0	191.7	187.0	191.7	196.4	191.7	196.4	206.0	196.4
70°	134.1	139.0	139.0	134.1	129.4	134.1	129.4	143.8	143.8	143.8	153.2
72.5°	86.2	86.2	81.5	81.5	81.5	81.5	81.5	95.8	86.2	81.5	91.1
75°	48.0	52.7	52.7	38.2	43.2	52.7	38.2	43.2	57.6	48.0	57.6
77.5°	28.8	28.8	28.8	28.8	28.8	28.8	38.2	33.5	33.5	33.5	38.2
80°	23.9	19.2	19.2	14.3	19.2	19.2	19.2	28.8	23.9	23.9	28.8
82.5°	9.6	9.6	4.7	0.0	9.6	9.6	9.6	9.6	9.6	9.6	19.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	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: P248865

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8
2.5°	9803.1	9803.1	9798.4	9789.0	9769.6	9769.6	9764.9	9750.5	9741.0	9736.1	9736.1
5°	9755.3	9736.1	9716.9	9664.4	9664.4	9654.6	9626.0	9606.7	9597.2	9573.2	9563.7
7.5°	9712.2	9654.6	9621.1	9587.6	9544.6	9525.2	9491.7	9477.4	9443.9	9420.0	9405.5
10°	9606.7	9568.5	9525.2	9472.7	9439.0	9400.8	9362.4	9333.8	9290.6	9266.5	9247.4
12.5°	9535.0	9477.4	9439.0	9381.5	9324.1	9290.6	9237.9	9204.4	9161.3	9113.3	9084.5
15°	9467.9	9405.5	9353.0	9290.6	9228.3	9190.0	9127.7	9089.4	9027.1	8979.2	8945.7
17.5°	9367.3	9314.5	9257.1	9180.3	9122.9	9075.1	9007.8	8960.0	8902.4	8840.1	8806.6
20°	9261.8	9199.5	9142.1	9065.4	9007.8	8950.4	8883.4	8830.7	8763.4	8706.0	8667.8
22.5°	9122.9	9051.0	9003.1	8926.3	8859.3	8797.2	8734.8	8672.5	8610.2	8562.3	8519.0
25°	8921.6	8844.9	8792.2	8729.9	8667.8	8619.8	8543.1	8504.9	8442.6	8399.3	8356.2
27.5°	8634.1	8576.7	8528.8	8466.5	8413.8	8375.6	8317.9	8279.6	8226.8	8188.6	8155.1
30°	8212.6	8164.7	8121.5	8059.2	8020.9	7987.3	7934.6	7901.0	7862.7	7819.5	7810.1
32.5°	7647.1	7608.7	7565.7	7522.5	7493.8	7474.6	7431.4	7412.3	7374.1	7349.9	7326.1
35°	6794.2	6760.6	6736.8	6717.7	6708.1	6712.8	6703.2	6722.4	6731.8	6727.1	6731.8
37.5°	5678.0	5658.6	5668.2	5682.7	5730.6	5792.9	5850.3	5936.5	5994.1	6051.7	6104.3
40°	4432.1	4446.4	4484.8	4571.0	4695.5	4834.6	4964.0	5126.9	5289.8	5404.8	5510.1
42.5°	3344.4	3387.7	3483.3	3607.9	3794.9	4000.7	4202.2	4441.5	4638.2	4829.7	4964.0
45°	2515.5	2572.9	2697.6	2870.1	3076.0	3315.7	3569.7	3837.9	4072.8	4269.2	4417.7
47.5°	1959.7	2012.4	2137.1	2319.1	2572.9	2822.2	3085.7	3363.6	3607.9	3799.6	3929.0
50°	1547.5	1614.6	1724.9	1916.6	2170.6	2434.0	2707.2	2980.2	3210.3	3373.2	3488.2
52.5°	1217.1	1279.4	1384.7	1586.0	1844.8	2108.3	2362.1	2630.5	2831.6	2989.8	3066.6
55°	943.9	1001.5	1111.5	1279.4	1523.7	1782.5	2036.3	2266.4	2453.2	2568.2	2640.2
57.5°	718.7	761.8	838.6	1006.2	1226.7	1466.2	1681.8	1911.9	2055.6	2137.1	2184.8
60°	546.3	579.8	661.3	790.6	991.9	1197.9	1380.0	1552.5	1667.5	1734.5	1782.5
62.5°	412.0	450.4	507.8	618.1	771.4	939.2	1092.4	1221.8	1317.6	1360.8	1394.3
65°	282.6	311.4	354.6	440.8	570.1	689.9	809.8	905.7	968.0	1015.9	1035.0
67.5°	210.9	229.9	254.0	321.1	412.0	507.8	589.3	656.3	723.6	742.8	776.3
70°	158.2	172.5	196.4	244.4	297.1	364.1	431.4	469.6	517.5	551.1	560.7
72.5°	100.6	105.3	129.4	158.2	201.1	244.4	287.5	321.1	349.9	369.0	378.4
75°	57.6	86.2	86.2	115.0	143.8	162.9	191.7	215.6	229.9	244.4	244.4
77.5°	38.2	52.7	57.6	71.7	86.2	110.2	134.1	148.5	162.9	167.6	167.6
80°	33.5	38.2	38.2	52.7	62.3	81.5	95.8	100.6	110.2	115.0	124.7
82.5°	14.3	19.2	23.9	38.2	43.2	43.2	57.6	62.3	71.7	76.7	76.7
85°	4.7	9.6	9.6	14.3	23.9	28.8	33.5	38.2	43.2	43.2	48.0
87.5°	4.7	4.7	0.0	4.7	9.6	9.6	19.2	19.2	19.2	28.8	28.8
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: P248865

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8	9812.8
2.5°	9726.7	9731.4	9712.2	9707.5	9697.9	9702.6	9712.2
5°	9549.4	9554.1	9535.0	9515.8	9515.8	9510.9	9515.8
7.5°	9381.5	9386.5	9357.7	9348.0	9328.8	9333.8	9333.8
10°	9213.8	9213.8	9170.9	9166.0	9151.5	9146.8	9146.8
12.5°	9051.0	9036.6	9003.1	8983.9	8993.6	8964.7	8964.7
15°	8907.2	8883.4	8840.1	8825.7	8801.9	8792.2	8792.2
17.5°	8758.7	8739.5	8701.3	8672.5	8643.7	8639.0	8643.7
20°	8614.9	8595.8	8547.8	8528.8	8504.9	8504.9	8495.2
22.5°	8471.2	8452.0	8409.1	8394.6	8361.1	8361.1	8365.8
25°	8322.6	8308.3	8260.3	8250.9	8246.1	8226.8	8236.4
27.5°	8121.5	8111.8	8073.6	8059.2	8040.0	8035.3	8044.7
30°	7752.5	7738.0	7709.5	7695.1	7661.6	7666.3	7675.7
32.5°	7292.6	7273.4	7234.9	7220.6	7192.0	7182.4	7187.1
35°	6717.7	6703.2	6669.7	6669.7	6640.9	6631.3	6640.9
37.5°	6133.1	6147.3	6133.1	6147.3	6133.1	6128.2	6133.1
40°	5582.1	5634.7	5644.2	5697.0	5678.0	5706.6	5701.9
42.5°	5054.9	5141.1	5174.9	5217.8	5208.4	5227.4	5241.9
45°	4523.0	4595.0	4628.5	4657.3	4662.0	4671.8	4676.5
47.5°	4019.9	4077.5	4082.2	4115.8	4111.0	4111.0	4125.4
50°	3550.5	3588.8	3598.3	3622.3	3603.2	3593.5	3598.3
52.5°	3114.5	3152.7	3143.1	3152.7	3128.9	3119.2	3124.0
55°	2668.8	2687.9	2687.9	2687.9	2659.3	2659.3	2659.3
57.5°	2213.6	2218.6	2208.8	2213.6	2208.8	2180.0	2175.3
60°	1796.9	1796.9	1791.9	1796.9	1782.5	1768.0	1768.0
62.5°	1403.8	1413.5	1432.6	1413.5	1403.8	1413.5	1399.1
65°	1049.4	1068.5	1063.6	1073.2	1068.5	1068.5	1058.9
67.5°	790.6	795.3	800.2	805.1	805.1	805.1	805.1
70°	579.8	594.2	589.3	589.3	589.3	589.3	618.1
72.5°	388.1	407.3	402.6	412.0	412.0	421.6	412.0
75°	263.4	282.6	273.2	287.5	282.6	273.2	297.1
77.5°	177.3	187.0	191.7	196.4	191.7	187.0	191.7
80°	124.7	134.1	129.4	134.1	134.1	134.1	139.0
82.5°	76.7	91.1	86.2	91.1	86.2	91.1	91.1
85°	52.7	57.6	48.0	57.6	52.7	52.7	62.3
87.5°	33.5	28.8	28.8	33.5	28.8	33.5	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)