

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: P248757

Luminaire Tested: **LD8B200D010 ER8B200930 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248757  
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 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17705.1 lumens  
Efficiency: N/A  
Efficacy: 79.3 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

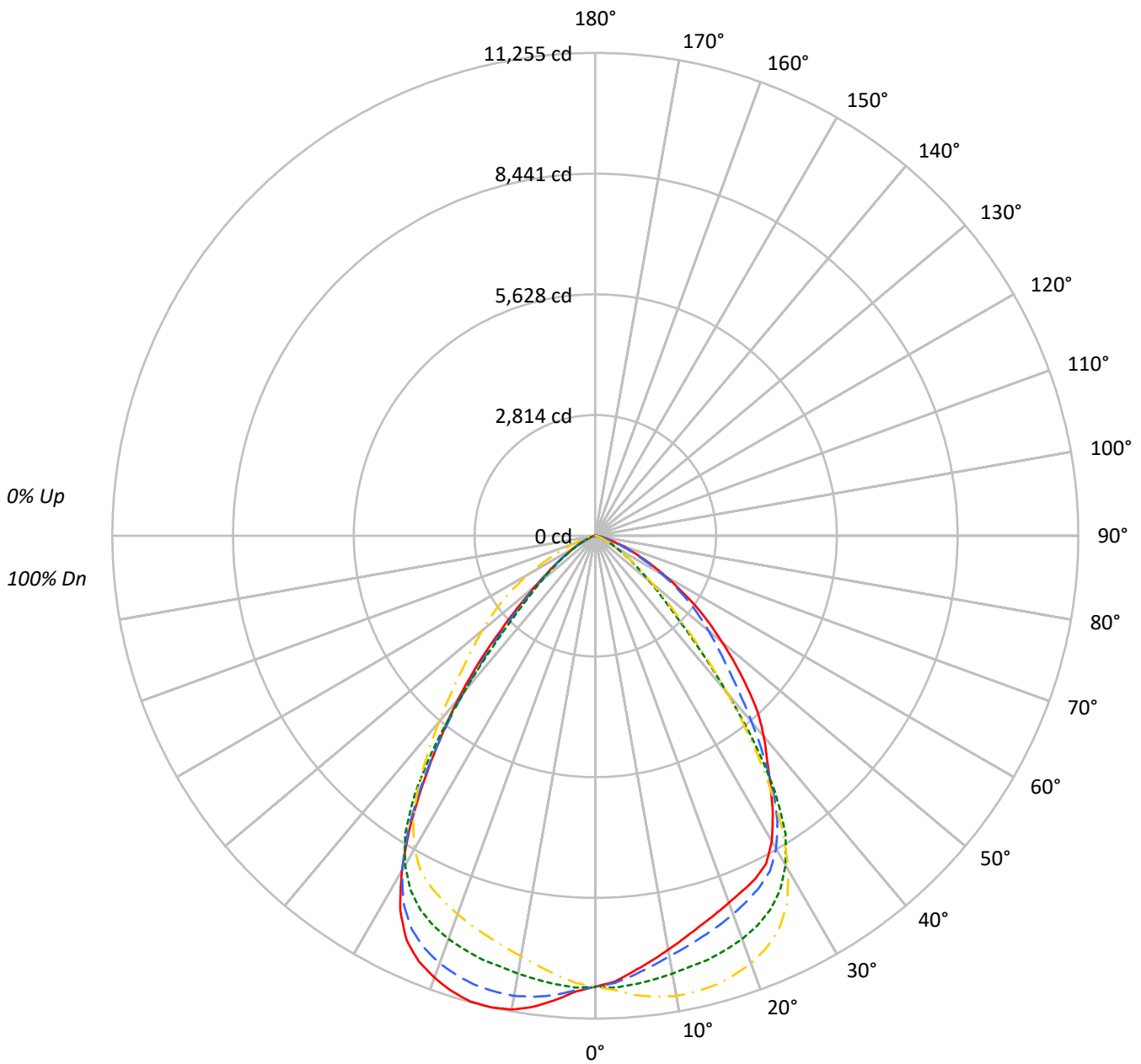
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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°	1000.4	5.7
10°-20°	2897.1	16.4
20°-30°	4386.8	24.8
30°-40°	4396.7	24.8
40°-50°	2760.9	15.6
50°-60°	1471.3	8.3
60°-70°	605.0	3.4
70°-80°	159.8	0.9
80°-90°	27.0	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°	8284.4	46.8
0°-40°	12681.0	71.6
0°-60°	16913.2	95.5
0°-90°	17705.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17705.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	10511	10511	10511	10511	10511	
5°	10193	10496	10870	10496	10193	961
15°	9418	10224	11240	10224	9418	2664
25°	8822	9628	10403	9628	8822	4046
35°	7113	7314	6939	7314	7113	4457
45°	5009	2679	3100	2679	5009	3852
55°	2848	990	1047	990	2848	2540
65°	1134	303	277	303	1134	1177
75°	318	62	51	62	318	360
85°	67	0	5	0	67	73
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°	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9
2.5°	10403.2	10392.9	10387.7	10398.2	10403.2	10423.7	10418.6	10428.8	10428.8	10434.0	10444.1
5°	10192.8	10187.5	10192.8	10192.8	10213.3	10233.8	10228.7	10244.1	10254.2	10280.0	10290.2
7.5°	9997.9	9997.9	9992.5	10013.0	10023.4	10054.2	10049.0	10074.8	10090.1	10115.7	10151.6
10°	9797.5	9797.5	9802.6	9818.1	9823.3	9869.4	9869.4	9905.3	9925.8	9951.6	9997.9
12.5°	9602.6	9602.6	9633.4	9623.1	9643.5	9679.5	9694.9	9730.8	9761.7	9813.0	9859.2
15°	9417.7	9417.7	9428.1	9453.6	9469.1	9515.3	9540.8	9582.1	9618.0	9669.3	9736.1
17.5°	9258.7	9253.6	9258.7	9289.5	9320.3	9361.4	9381.8	9433.1	9469.1	9535.8	9597.6
20°	9099.6	9109.9	9109.9	9135.5	9156.0	9207.3	9227.8	9284.5	9325.4	9386.9	9458.9
22.5°	8961.0	8955.9	8955.9	8991.9	9007.2	9053.3	9073.8	9125.2	9171.5	9222.7	9289.5
25°	8822.4	8812.1	8832.8	8837.9	8847.9	8899.3	8914.8	8950.6	8996.9	9043.2	9109.9
27.5°	8617.1	8606.9	8612.0	8632.5	8648.0	8688.9	8699.3	8735.2	8771.0	8812.1	8868.7
30°	8221.9	8211.7	8206.6	8242.5	8258.0	8288.6	8304.0	8365.7	8375.9	8422.1	8463.1
32.5°	7698.4	7693.3	7703.6	7734.2	7749.7	7790.8	7811.4	7847.3	7872.9	7898.7	7939.6
35°	7113.4	7103.1	7113.4	7144.2	7144.2	7180.1	7195.6	7210.8	7205.7	7210.8	7200.6
37.5°	6569.4	6564.1	6569.4	6584.6	6569.4	6584.6	6569.4	6538.6	6482.2	6420.5	6358.9
40°	6107.4	6112.5	6081.9	6102.4	6045.8	6035.6	5979.2	5902.1	5789.3	5666.1	5491.7
42.5°	5614.8	5599.4	5578.9	5589.1	5543.0	5506.9	5414.5	5317.1	5173.3	4968.2	4757.5
45°	5009.2	5004.0	4993.7	4988.7	4957.8	4921.9	4844.8	4732.0	4572.9	4362.5	4110.9
47.5°	4418.9	4403.5	4403.5	4408.6	4372.7	4367.6	4305.9	4208.6	4069.9	3864.6	3602.9
50°	3854.2	3849.2	3859.5	3880.0	3854.2	3844.1	3803.1	3736.4	3613.2	3438.7	3192.2
52.5°	3346.2	3341.1	3351.5	3377.0	3366.7	3377.0	3336.1	3284.8	3202.6	3033.1	2817.6
55°	2848.5	2848.5	2848.5	2879.2	2879.2	2879.2	2858.7	2827.9	2750.9	2627.7	2427.6
57.5°	2330.1	2335.2	2366.0	2371.0	2366.0	2376.3	2371.0	2340.2	2289.1	2201.9	2047.8
60°	1893.8	1893.8	1909.3	1924.6	1919.4	1924.6	1924.6	1909.3	1857.9	1786.1	1663.0
62.5°	1498.6	1514.0	1503.7	1514.0	1534.5	1514.0	1503.7	1493.5	1457.6	1411.3	1308.7
65°	1134.2	1144.5	1144.5	1149.6	1139.3	1144.5	1124.0	1108.7	1088.2	1036.8	970.1
67.5°	862.3	862.3	862.3	862.3	857.0	852.0	846.9	831.4	795.6	775.1	703.1
70°	662.1	631.2	631.2	631.2	631.2	636.5	621.0	600.6	590.2	554.3	503.0
72.5°	441.3	451.7	441.3	441.3	431.1	436.2	415.8	405.4	395.3	374.8	343.9
75°	318.1	292.6	302.7	308.1	292.6	302.7	282.3	261.8	261.8	246.3	230.9
77.5°	205.4	200.2	205.4	210.4	205.4	200.2	189.9	179.6	179.6	174.5	159.1
80°	149.0	143.6	143.6	143.6	138.6	143.6	133.5	133.5	123.2	118.0	107.7
82.5°	97.6	97.6	92.4	97.6	92.4	97.6	82.2	82.2	82.2	76.9	66.7
85°	66.7	56.4	56.4	61.7	51.3	61.7	56.4	51.3	46.3	46.3	41.0
87.5°	30.8	35.9	30.8	35.9	30.8	30.8	35.9	30.8	30.8	20.5	20.5
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°	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9
2.5°	10459.6	10464.6	10464.6	10485.4	10495.5	10500.6	10500.6	10541.8	10526.4	10536.7	10546.8
5°	10310.8	10341.6	10351.9	10351.9	10408.3	10428.8	10449.3	10495.5	10500.6	10531.5	10567.3
7.5°	10167.0	10202.9	10223.6	10269.7	10305.6	10341.6	10403.2	10434.0	10464.6	10505.9	10552.0
10°	10028.5	10069.6	10110.6	10146.5	10202.9	10249.2	10290.2	10362.0	10398.2	10454.6	10516.0
12.5°	9895.2	9951.6	9987.4	10049.0	10110.6	10151.6	10213.3	10280.0	10336.4	10392.9	10464.6
15°	9777.0	9843.8	9884.8	9951.6	10018.3	10074.8	10141.5	10223.6	10264.7	10331.4	10398.2
17.5°	9648.7	9720.6	9772.0	9833.4	9915.7	9977.1	10033.7	10115.7	10167.0	10238.9	10316.0
20°	9515.3	9587.1	9648.7	9710.3	9792.5	9853.9	9920.7	10002.9	10059.3	10131.1	10192.8
22.5°	9356.2	9423.0	9489.6	9561.3	9643.5	9694.9	9772.0	9843.8	9905.3	9972.1	10033.7
25°	9150.9	9233.1	9284.5	9350.9	9417.7	9474.1	9556.3	9628.2	9679.5	9741.2	9797.5
27.5°	8909.7	8971.4	9012.4	9068.8	9135.5	9186.8	9248.2	9320.3	9371.7	9428.1	9469.1
30°	8499.0	8555.6	8591.6	8632.5	8699.3	8745.5	8796.8	8863.4	8899.3	8940.5	8976.4
32.5°	7960.1	8006.4	8026.8	8057.7	8103.9	8150.0	8191.3	8247.6	8263.0	8288.6	8288.6
35°	7180.1	7190.3	7185.3	7195.6	7216.1	7241.7	7277.5	7313.5	7333.9	7333.9	7318.8
37.5°	6266.5	6205.1	6138.3	6086.9	6071.6	6061.1	6081.9	6097.1	6117.7	6127.9	6102.4
40°	5317.1	5178.6	5029.6	4896.1	4803.8	4762.8	4747.4	4757.5	4757.5	4793.5	4793.5
42.5°	4501.2	4285.4	4064.9	3864.6	3731.1	3628.7	3582.4	3582.4	3587.4	3613.2	3628.7
45°	3823.6	3551.6	3294.8	3074.3	2889.5	2756.0	2694.4	2679.1	2674.0	2684.1	2720.1
47.5°	3305.3	3023.0	2756.0	2484.1	2289.1	2155.6	2099.2	2078.4	2058.0	2078.4	2083.7
50°	2899.8	2607.2	2325.1	2052.9	1847.6	1729.5	1657.6	1626.8	1621.8	1621.8	1632.1
52.5°	2530.1	2258.3	1976.0	1698.9	1483.2	1370.4	1303.6	1288.3	1267.7	1288.3	1288.3
55°	2181.1	1909.3	1632.1	1370.4	1190.6	1072.7	1011.0	990.5	980.2	995.7	995.7
57.5°	1801.6	1570.4	1313.9	1077.8	898.3	816.1	769.8	744.2	739.0	749.3	739.0
60°	1478.2	1283.1	1062.4	846.9	708.4	621.0	585.2	574.8	564.4	574.8	574.8
62.5°	1170.1	1006.0	826.2	662.1	544.0	482.5	441.3	441.3	436.2	436.2	441.3
65°	867.4	739.0	610.7	472.2	379.8	333.6	302.7	302.7	297.6	302.7	297.6
67.5°	631.2	544.0	441.3	343.9	272.1	246.3	225.9	210.4	220.7	210.4	205.4
70°	462.0	390.0	318.1	261.8	210.4	184.9	169.4	164.1	154.0	154.0	154.0
72.5°	308.1	261.8	215.5	169.4	138.6	112.8	107.7	97.6	87.2	92.4	102.7
75°	205.4	174.5	154.0	123.2	92.4	92.4	61.7	61.7	51.3	61.7	46.3
77.5°	143.6	118.0	92.4	76.9	61.7	56.4	41.0	41.0	35.9	35.9	35.9
80°	102.7	87.2	66.7	56.4	41.0	41.0	35.9	30.8	25.6	25.6	30.8
82.5°	61.7	46.3	46.3	41.0	25.6	20.5	15.5	20.5	10.3	10.3	10.3
85°	35.9	30.8	25.6	15.5	10.3	10.3	5.0	0.0	5.0	5.0	0.0
87.5°	20.5	10.3	10.3	5.0	0.0	5.0	5.0	0.0	0.0	0.0	10.3
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°	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9
2.5°	10572.6	10567.3	10577.6	10577.6	10608.6	10603.2	10618.7	10618.7	10608.6	10613.6	10634.1
5°	10608.6	10623.9	10654.5	10680.3	10726.4	10747.1	10772.7	10798.5	10803.5	10819.0	10834.4
7.5°	10608.6	10659.9	10695.8	10741.9	10803.5	10839.4	10895.8	10942.1	10962.6	10988.2	11019.0
10°	10587.8	10639.2	10705.9	10757.2	10834.4	10890.7	10947.1	11019.0	11049.8	11090.8	11132.0
12.5°	10546.8	10603.2	10675.1	10741.9	10829.1	10880.4	10952.3	11019.0	11065.3	11121.7	11168.0
15°	10485.4	10552.0	10618.7	10685.5	10777.7	10839.4	10906.2	10983.1	11029.3	11090.8	11132.0
17.5°	10387.7	10459.6	10521.3	10582.8	10670.0	10741.9	10803.5	10875.4	10921.6	10972.9	11029.3
20°	10269.7	10336.4	10403.2	10454.6	10541.8	10603.2	10670.0	10736.7	10772.7	10783.0	10870.2
22.5°	10120.9	10167.0	10218.4	10300.5	10351.9	10408.3	10469.9	10531.5	10567.3	10623.9	10654.5
25°	9874.4	9920.7	9977.1	10013.0	10074.8	10120.9	10182.5	10249.2	10269.7	10310.8	10341.6
27.5°	9530.7	9556.3	9582.1	9612.7	9648.7	9674.3	9710.3	9741.2	9761.7	9782.2	9802.6
30°	8986.6	8986.6	8986.6	8966.1	8981.5	8996.9	9002.0	8996.9	8996.9	8991.9	8991.9
32.5°	8268.0	8227.1	8180.8	8139.9	8124.4	8103.9	8093.6	8078.2	8052.6	8037.2	8042.3
35°	7298.0	7205.7	7149.3	7097.9	7057.0	7026.2	7010.7	6995.4	6990.2	6969.8	6949.1
37.5°	6086.9	6020.2	5979.2	5948.4	5912.5	5881.7	5886.7	5892.0	5907.2	5897.0	5902.1
40°	4803.8	4788.4	4803.8	4767.9	4757.5	4767.9	4793.5	4829.6	4850.1	4870.5	4906.5
42.5°	3654.2	3679.8	3715.9	3715.9	3731.1	3751.8	3782.5	3839.1	3869.7	3905.6	3946.8
45°	2750.9	2781.8	2827.9	2843.2	2853.5	2879.2	2915.3	2961.3	2981.7	3012.7	3048.6
47.5°	2119.7	2140.2	2165.8	2191.6	2217.1	2227.4	2263.3	2263.3	2289.1	2309.6	2319.7
50°	1652.6	1673.1	1693.6	1709.0	1719.4	1734.7	1744.9	1760.3	1765.5	1775.8	1780.8
52.5°	1293.3	1319.1	1319.1	1329.2	1344.6	1360.0	1355.0	1360.0	1365.0	1365.0	1380.5
55°	1011.0	1011.0	1026.5	1026.5	1036.8	1031.5	1036.8	1036.8	1036.8	1036.8	1041.9
57.5°	754.3	759.7	775.1	764.7	759.7	769.8	759.7	769.8	764.7	775.1	759.7
60°	579.9	579.9	585.2	585.2	590.2	590.2	590.2	585.2	585.2	579.9	579.9
62.5°	436.2	441.3	446.6	441.3	441.3	441.3	436.2	436.2	431.1	425.9	425.9
65°	292.6	287.5	297.6	287.5	292.6	292.6	287.5	292.6	277.1	282.3	277.1
67.5°	210.4	205.4	200.2	205.4	200.2	194.9	194.9	200.2	205.4	189.9	189.9
70°	138.6	143.6	138.6	143.6	149.0	149.0	143.6	138.6	143.6	133.5	138.6
72.5°	87.2	87.2	87.2	87.2	87.2	92.4	92.4	92.4	82.2	82.2	76.9
75°	41.0	56.4	46.3	41.0	56.4	56.4	51.3	51.3	46.3	46.3	46.3
77.5°	41.0	30.8	30.8	30.8	30.8	30.8	30.8	30.8	25.6	30.8	25.6
80°	20.5	20.5	20.5	15.5	20.5	20.5	25.6	20.5	20.5	15.5	25.6
82.5°	10.3	10.3	10.3	0.0	5.0	10.3	10.3	5.0	10.3	10.3	5.0
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: P248757

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9
2.5°	10629.0	10623.9	10629.0	10634.1	10629.0	10623.9	10629.0	10634.1	10613.6	10608.6	10618.7
5°	10854.9	10854.9	10865.0	10870.2	10865.0	10854.9	10854.9	10834.4	10819.0	10803.5	10798.5
7.5°	11049.8	11060.2	11070.3	11075.4	11070.3	11060.2	11049.8	11019.0	10988.2	10962.6	10942.1
10°	11168.0	11183.3	11203.8	11214.0	11203.8	11183.3	11168.0	11132.0	11090.8	11049.8	11019.0
12.5°	11219.3	11234.7	11260.2	11255.2	11260.2	11234.7	11219.3	11168.0	11121.7	11065.3	11019.0
15°	11183.3	11203.8	11229.4	11239.7	11229.4	11203.8	11183.3	11132.0	11090.8	11029.3	10983.1
17.5°	11070.3	11101.2	11116.6	11132.0	11116.6	11101.2	11070.3	11029.3	10972.9	10921.6	10875.4
20°	10916.3	10937.0	10957.6	10962.6	10957.6	10937.0	10916.3	10870.2	10783.0	10772.7	10736.7
22.5°	10695.8	10711.2	10757.2	10741.9	10757.2	10711.2	10695.8	10654.5	10623.9	10567.3	10531.5
25°	10377.4	10392.9	10398.2	10403.2	10398.2	10392.9	10377.4	10341.6	10310.8	10269.7	10249.2
27.5°	9828.4	9828.4	9838.6	9843.8	9838.6	9828.4	9828.4	9802.6	9782.2	9761.7	9741.2
30°	8996.9	8996.9	8996.9	9022.7	8996.9	8996.9	8996.9	8991.9	8991.9	8996.9	8996.9
32.5°	8037.2	8026.8	8016.7	8026.8	8016.7	8026.8	8037.2	8042.3	8037.2	8052.6	8078.2
35°	6949.1	6944.0	6959.4	6938.9	6959.4	6944.0	6949.1	6949.1	6969.8	6990.2	6995.4
37.5°	5907.2	5897.0	5917.5	5897.0	5917.5	5897.0	5907.2	5902.1	5897.0	5907.2	5892.0
40°	4916.8	4927.0	4927.0	4968.2	4927.0	4927.0	4916.8	4906.5	4870.5	4850.1	4829.6
42.5°	3967.2	3998.2	3987.7	4018.6	3987.7	3998.2	3967.2	3946.8	3905.6	3869.7	3839.1
45°	3069.1	3089.7	3089.7	3099.9	3089.7	3089.7	3069.1	3048.6	3012.7	2981.7	2961.3
47.5°	2355.7	2355.7	2355.7	2360.9	2355.7	2355.7	2355.7	2319.7	2309.6	2289.1	2263.3
50°	1791.1	1796.3	1801.6	1806.6	1801.6	1796.3	1791.1	1780.8	1775.8	1765.5	1760.3
52.5°	1375.5	1380.5	1370.4	1380.5	1370.4	1380.5	1375.5	1380.5	1365.0	1365.0	1360.0
55°	1041.9	1036.8	1041.9	1046.9	1041.9	1036.8	1041.9	1041.9	1036.8	1036.8	1036.8
57.5°	764.7	754.3	754.3	754.3	754.3	754.3	764.7	759.7	775.1	764.7	769.8
60°	569.7	574.8	574.8	579.9	574.8	574.8	569.7	579.9	579.9	585.2	585.2
62.5°	420.8	436.2	425.9	436.2	425.9	436.2	420.8	425.9	425.9	431.1	436.2
65°	272.1	272.1	272.1	277.1	272.1	272.1	272.1	277.1	282.3	277.1	292.6
67.5°	184.9	189.9	200.2	194.9	200.2	189.9	184.9	189.9	189.9	205.4	200.2
70°	149.0	133.5	133.5	149.0	133.5	133.5	149.0	138.6	133.5	143.6	138.6
72.5°	87.2	76.9	87.2	87.2	87.2	76.9	87.2	76.9	82.2	82.2	92.4
75°	46.3	41.0	35.9	51.3	35.9	41.0	46.3	46.3	46.3	46.3	51.3
77.5°	30.8	25.6	35.9	35.9	35.9	25.6	30.8	25.6	30.8	25.6	30.8
80°	15.5	20.5	15.5	25.6	15.5	20.5	15.5	25.6	15.5	20.5	20.5
82.5°	5.0	10.3	10.3	10.3	10.3	10.3	5.0	5.0	10.3	10.3	5.0
85°	0.0	10.3	5.0	5.0	5.0	10.3	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	0.0	0.0	5.0	0.0	0.0	5.0	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: P248757

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9
2.5°	10618.7	10603.2	10608.6	10577.6	10577.6	10567.3	10572.6	10546.8	10536.7	10526.4	10541.8
5°	10772.7	10747.1	10726.4	10680.3	10654.5	10623.9	10608.6	10567.3	10531.5	10500.6	10495.5
7.5°	10895.8	10839.4	10803.5	10741.9	10695.8	10659.9	10608.6	10552.0	10505.9	10464.6	10434.0
10°	10947.1	10890.7	10834.4	10757.2	10705.9	10639.2	10587.8	10516.0	10454.6	10398.2	10362.0
12.5°	10952.3	10880.4	10829.1	10741.9	10675.1	10603.2	10546.8	10464.6	10392.9	10336.4	10280.0
15°	10906.2	10839.4	10777.7	10685.5	10618.7	10552.0	10485.4	10398.2	10331.4	10264.7	10223.6
17.5°	10803.5	10741.9	10670.0	10582.8	10521.3	10459.6	10387.7	10316.0	10238.9	10167.0	10115.7
20°	10670.0	10603.2	10541.8	10454.6	10403.2	10336.4	10269.7	10192.8	10131.1	10059.3	10002.9
22.5°	10469.9	10408.3	10351.9	10300.5	10218.4	10167.0	10120.9	10033.7	9972.1	9905.3	9843.8
25°	10182.5	10120.9	10074.8	10013.0	9977.1	9920.7	9874.4	9797.5	9741.2	9679.5	9628.2
27.5°	9710.3	9674.3	9648.7	9612.7	9582.1	9556.3	9530.7	9469.1	9428.1	9371.7	9320.3
30°	9002.0	8996.9	8981.5	8966.1	8986.6	8986.6	8986.6	8976.4	8940.5	8899.3	8863.4
32.5°	8093.6	8103.9	8124.4	8139.9	8180.8	8227.1	8268.0	8288.6	8288.6	8263.0	8247.6
35°	7010.7	7026.2	7057.0	7097.9	7149.3	7205.7	7298.0	7318.8	7333.9	7333.9	7313.5
37.5°	5886.7	5881.7	5912.5	5948.4	5979.2	6020.2	6086.9	6102.4	6127.9	6117.7	6097.1
40°	4793.5	4767.9	4757.5	4767.9	4803.8	4788.4	4803.8	4793.5	4793.5	4757.5	4757.5
42.5°	3782.5	3751.8	3731.1	3715.9	3715.9	3679.8	3654.2	3628.7	3613.2	3587.4	3582.4
45°	2915.3	2879.2	2853.5	2843.2	2827.9	2781.8	2750.9	2720.1	2684.1	2674.0	2679.1
47.5°	2263.3	2227.4	2217.1	2191.6	2165.8	2140.2	2119.7	2083.7	2078.4	2058.0	2078.4
50°	1744.9	1734.7	1719.4	1709.0	1693.6	1673.1	1652.6	1632.1	1621.8	1621.8	1626.8
52.5°	1355.0	1360.0	1344.6	1329.2	1319.1	1319.1	1293.3	1288.3	1288.3	1267.7	1288.3
55°	1036.8	1031.5	1036.8	1026.5	1026.5	1011.0	1011.0	995.7	995.7	980.2	990.5
57.5°	759.7	769.8	759.7	764.7	775.1	759.7	754.3	739.0	749.3	739.0	744.2
60°	590.2	590.2	590.2	585.2	585.2	579.9	579.9	574.8	574.8	564.4	574.8
62.5°	436.2	441.3	441.3	441.3	446.6	441.3	436.2	441.3	436.2	436.2	441.3
65°	287.5	292.6	292.6	287.5	297.6	287.5	292.6	297.6	302.7	297.6	302.7
67.5°	194.9	194.9	200.2	205.4	200.2	205.4	210.4	205.4	210.4	220.7	210.4
70°	143.6	149.0	149.0	143.6	138.6	143.6	138.6	154.0	154.0	154.0	164.1
72.5°	92.4	92.4	87.2	87.2	87.2	87.2	87.2	102.7	92.4	87.2	97.6
75°	51.3	56.4	56.4	41.0	46.3	56.4	41.0	46.3	61.7	51.3	61.7
77.5°	30.8	30.8	30.8	30.8	30.8	30.8	41.0	35.9	35.9	35.9	41.0
80°	25.6	20.5	20.5	15.5	20.5	20.5	20.5	30.8	25.6	25.6	30.8
82.5°	10.3	10.3	5.0	0.0	10.3	10.3	10.3	10.3	10.3	10.3	20.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	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: P248757

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9
2.5°	10500.6	10500.6	10495.5	10485.4	10464.6	10464.6	10459.6	10444.1	10434.0	10428.8	10428.8
5°	10449.3	10428.8	10408.3	10351.9	10351.9	10341.6	10310.8	10290.2	10280.0	10254.2	10244.1
7.5°	10403.2	10341.6	10305.6	10269.7	10223.6	10202.9	10167.0	10151.6	10115.7	10090.1	10074.8
10°	10290.2	10249.2	10202.9	10146.5	10110.6	10069.6	10028.5	9997.9	9951.6	9925.8	9905.3
12.5°	10213.3	10151.6	10110.6	10049.0	9987.4	9951.6	9895.2	9859.2	9813.0	9761.7	9730.8
15°	10141.5	10074.8	10018.3	9951.6	9884.8	9843.8	9777.0	9736.1	9669.3	9618.0	9582.1
17.5°	10033.7	9977.1	9915.7	9833.4	9772.0	9720.6	9648.7	9597.6	9535.8	9469.1	9433.1
20°	9920.7	9853.9	9792.5	9710.3	9648.7	9587.1	9515.3	9458.9	9386.9	9325.4	9284.5
22.5°	9772.0	9694.9	9643.5	9561.3	9489.6	9423.0	9356.2	9289.5	9222.7	9171.5	9125.2
25°	9556.3	9474.1	9417.7	9350.9	9284.5	9233.1	9150.9	9109.9	9043.2	8996.9	8950.6
27.5°	9248.2	9186.8	9135.5	9068.8	9012.4	8971.4	8909.7	8868.7	8812.1	8771.0	8735.2
30°	8796.8	8745.5	8699.3	8632.5	8591.6	8555.6	8499.0	8463.1	8422.1	8375.9	8365.7
32.5°	8191.3	8150.0	8103.9	8057.7	8026.8	8006.4	7960.1	7939.6	7898.7	7872.9	7847.3
35°	7277.5	7241.7	7216.1	7195.6	7185.3	7190.3	7180.1	7200.6	7210.8	7205.7	7210.8
37.5°	6081.9	6061.1	6071.6	6086.9	6138.3	6205.1	6266.5	6358.9	6420.5	6482.2	6538.6
40°	4747.4	4762.8	4803.8	4896.1	5029.6	5178.6	5317.1	5491.7	5666.1	5789.3	5902.1
42.5°	3582.4	3628.7	3731.1	3864.6	4064.9	4285.4	4501.2	4757.5	4968.2	5173.3	5317.1
45°	2694.4	2756.0	2889.5	3074.3	3294.8	3551.6	3823.6	4110.9	4362.5	4572.9	4732.0
47.5°	2099.2	2155.6	2289.1	2484.1	2756.0	3023.0	3305.3	3602.9	3864.6	4069.9	4208.6
50°	1657.6	1729.5	1847.6	2052.9	2325.1	2607.2	2899.8	3192.2	3438.7	3613.2	3736.4
52.5°	1303.6	1370.4	1483.2	1698.9	1976.0	2258.3	2530.1	2817.6	3033.1	3202.6	3284.8
55°	1011.0	1072.7	1190.6	1370.4	1632.1	1909.3	2181.1	2427.6	2627.7	2750.9	2827.9
57.5°	769.8	816.1	898.3	1077.8	1313.9	1570.4	1801.6	2047.8	2201.9	2289.1	2340.2
60°	585.2	621.0	708.4	846.9	1062.4	1283.1	1478.2	1663.0	1786.1	1857.9	1909.3
62.5°	441.3	482.5	544.0	662.1	826.2	1006.0	1170.1	1308.7	1411.3	1457.6	1493.5
65°	302.7	333.6	379.8	472.2	610.7	739.0	867.4	970.1	1036.8	1088.2	1108.7
67.5°	225.9	246.3	272.1	343.9	441.3	544.0	631.2	703.1	775.1	795.6	831.4
70°	169.4	184.9	210.4	261.8	318.1	390.0	462.0	503.0	554.3	590.2	600.6
72.5°	107.7	112.8	138.6	169.4	215.5	261.8	308.1	343.9	374.8	395.3	405.4
75°	61.7	92.4	92.4	123.2	154.0	174.5	205.4	230.9	246.3	261.8	261.8
77.5°	41.0	56.4	61.7	76.9	92.4	118.0	143.6	159.1	174.5	179.6	179.6
80°	35.9	41.0	41.0	56.4	66.7	87.2	102.7	107.7	118.0	123.2	133.5
82.5°	15.5	20.5	25.6	41.0	46.3	46.3	61.7	66.7	76.9	82.2	82.2
85°	5.0	10.3	10.3	15.5	25.6	30.8	35.9	41.0	46.3	46.3	51.3
87.5°	5.0	5.0	0.0	5.0	10.3	10.3	20.5	20.5	20.5	30.8	30.8
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: P248757

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9	10510.9
2.5°	10418.6	10423.7	10403.2	10398.2	10387.7	10392.9	10403.2
5°	10228.7	10233.8	10213.3	10192.8	10192.8	10187.5	10192.8
7.5°	10049.0	10054.2	10023.4	10013.0	9992.5	9997.9	9997.9
10°	9869.4	9869.4	9823.3	9818.1	9802.6	9797.5	9797.5
12.5°	9694.9	9679.5	9643.5	9623.1	9633.4	9602.6	9602.6
15°	9540.8	9515.3	9469.1	9453.6	9428.1	9417.7	9417.7
17.5°	9381.8	9361.4	9320.3	9289.5	9258.7	9253.6	9258.7
20°	9227.8	9207.3	9156.0	9135.5	9109.9	9109.9	9099.6
22.5°	9073.8	9053.3	9007.2	8991.9	8955.9	8955.9	8961.0
25°	8914.8	8899.3	8847.9	8837.9	8832.8	8812.1	8822.4
27.5°	8699.3	8688.9	8648.0	8632.5	8612.0	8606.9	8617.1
30°	8304.0	8288.6	8258.0	8242.5	8206.6	8211.7	8221.9
32.5°	7811.4	7790.8	7749.7	7734.2	7703.6	7693.3	7698.4
35°	7195.6	7180.1	7144.2	7144.2	7113.4	7103.1	7113.4
37.5°	6569.4	6584.6	6569.4	6584.6	6569.4	6564.1	6569.4
40°	5979.2	6035.6	6045.8	6102.4	6081.9	6112.5	6107.4
42.5°	5414.5	5506.9	5543.0	5589.1	5578.9	5599.4	5614.8
45°	4844.8	4921.9	4957.8	4988.7	4993.7	5004.0	5009.2
47.5°	4305.9	4367.6	4372.7	4408.6	4403.5	4403.5	4418.9
50°	3803.1	3844.1	3854.2	3880.0	3859.5	3849.2	3854.2
52.5°	3336.1	3377.0	3366.7	3377.0	3351.5	3341.1	3346.2
55°	2858.7	2879.2	2879.2	2879.2	2848.5	2848.5	2848.5
57.5°	2371.0	2376.3	2366.0	2371.0	2366.0	2335.2	2330.1
60°	1924.6	1924.6	1919.4	1924.6	1909.3	1893.8	1893.8
62.5°	1503.7	1514.0	1534.5	1514.0	1503.7	1514.0	1498.6
65°	1124.0	1144.5	1139.3	1149.6	1144.5	1144.5	1134.2
67.5°	846.9	852.0	857.0	862.3	862.3	862.3	862.3
70°	621.0	636.5	631.2	631.2	631.2	631.2	662.1
72.5°	415.8	436.2	431.1	441.3	441.3	451.7	441.3
75°	282.3	302.7	292.6	308.1	302.7	292.6	318.1
77.5°	189.9	200.2	205.4	210.4	205.4	200.2	205.4
80°	133.5	143.6	138.6	143.6	143.6	143.6	149.0
82.5°	82.2	97.6	92.4	97.6	92.4	97.6	97.6
85°	56.4	61.7	51.3	61.7	56.4	56.4	66.7
87.5°	35.9	30.8	30.8	35.9	30.8	35.9	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)