

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: P249081

Luminaire Tested: **LD8B200D010 ER8B200930 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249081  
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 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17673.7 lumens  
Efficiency: N/A  
Efficacy: 79.1 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

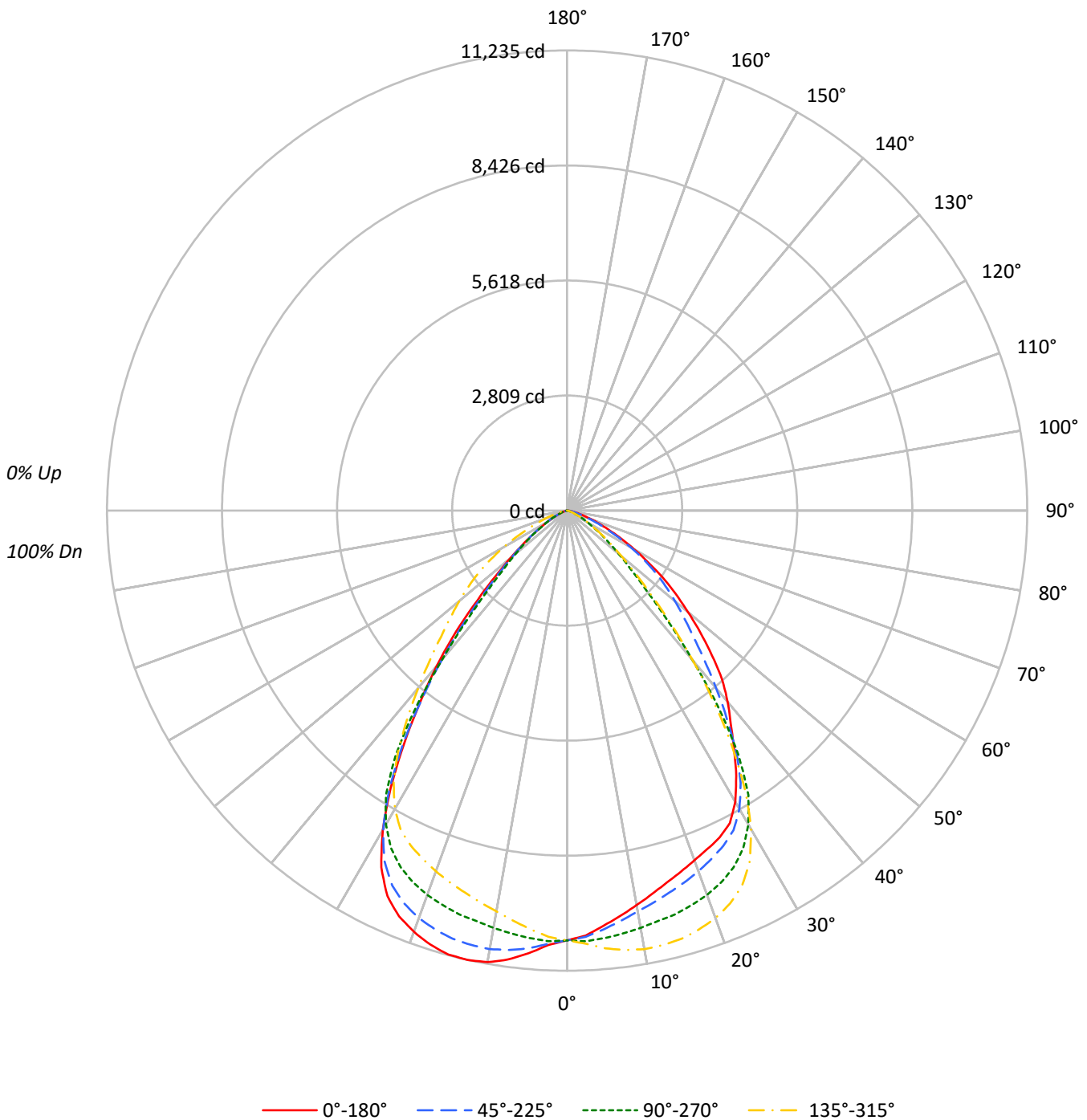
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	998.7	5.7
10°-20°	2892.0	16.4
20°-30°	4379.0	24.8
30°-40°	4388.9	24.8
40°-50°	2756.0	15.6
50°-60°	1468.7	8.3
60°-70°	603.9	3.4
70°-80°	159.6	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°	8269.7	46.8
0°-40°	12658.6	71.6
0°-60°	16883.2	95.5
0°-90°	17673.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17673.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	10492	10492	10492	10492	10492	
5°	10175	10477	10851	10477	10175	960
15°	9401	10206	11220	10206	9401	2659
25°	8807	9611	10385	9611	8807	4039
35°	7101	7300	6927	7300	7101	4449
45°	5000	2674	3094	2674	5000	3846
55°	2843	989	1045	989	2843	2535
65°	1132	302	277	302	1132	1174
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°	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3
2.5°	10384.7	10374.4	10369.4	10379.7	10384.7	10405.2	10400.2	10410.3	10410.3	10415.5	10425.6
5°	10174.8	10169.5	10174.8	10174.8	10195.2	10215.7	10210.6	10226.0	10236.1	10261.9	10271.9
7.5°	9980.0	9980.0	9974.8	9995.3	10005.6	10036.4	10031.2	10056.8	10072.3	10097.7	10133.6
10°	9780.2	9780.2	9785.2	9800.7	9805.9	9851.9	9851.9	9887.8	9908.2	9934.0	9980.0
12.5°	9585.6	9585.6	9616.4	9606.0	9626.5	9662.3	9677.7	9713.6	9744.3	9795.5	9841.7
15°	9401.0	9401.0	9411.4	9436.9	9452.3	9498.5	9524.0	9565.0	9600.9	9652.1	9718.8
17.5°	9242.2	9237.2	9242.2	9273.0	9303.9	9344.8	9365.2	9416.4	9452.3	9518.9	9580.5
20°	9083.5	9093.8	9093.8	9119.3	9139.7	9191.0	9211.5	9268.0	9308.9	9370.2	9442.2
22.5°	8945.1	8940.1	8940.1	8976.0	8991.3	9037.3	9057.7	9109.0	9155.1	9206.4	9273.0
25°	8806.8	8796.5	8817.1	8822.2	8832.2	8883.6	8898.9	8934.8	8981.0	9027.2	9093.8
27.5°	8601.8	8591.7	8596.7	8617.2	8632.6	8673.5	8683.8	8719.7	8755.6	8796.5	8853.0
30°	8207.3	8197.1	8192.0	8227.9	8243.3	8273.9	8289.3	8350.9	8361.0	8407.2	8448.1
32.5°	7684.7	7679.6	7689.9	7720.6	7735.9	7777.0	7797.6	7833.4	7858.9	7884.7	7925.6
35°	7100.8	7090.4	7100.8	7131.6	7131.6	7167.4	7182.8	7198.1	7193.0	7198.1	7187.9
37.5°	6557.8	6552.6	6557.8	6573.0	6557.8	6573.0	6557.8	6527.0	6470.7	6409.1	6347.6
40°	6096.6	6101.7	6071.1	6091.5	6035.0	6024.9	5968.7	5891.6	5779.1	5656.1	5481.9
42.5°	5604.9	5589.4	5569.0	5579.1	5533.1	5497.0	5404.9	5307.7	5164.1	4959.4	4749.1
45°	5000.2	4995.2	4984.9	4979.8	4949.0	4913.2	4836.2	4723.6	4564.8	4354.7	4103.6
47.5°	4411.1	4395.7	4395.7	4400.7	4364.9	4359.8	4298.3	4201.1	4062.7	3857.7	3596.5
50°	3847.4	3842.3	3852.7	3873.2	3847.4	3837.3	3796.4	3729.8	3606.8	3432.6	3186.6
52.5°	3340.2	3335.2	3345.5	3371.1	3360.8	3371.1	3330.2	3278.9	3196.9	3027.7	2812.7
55°	2843.4	2843.4	2843.4	2874.0	2874.0	2874.0	2853.6	2823.0	2746.0	2623.0	2423.4
57.5°	2326.0	2331.0	2361.8	2366.9	2361.8	2372.1	2366.9	2336.1	2285.0	2197.9	2044.3
60°	1890.5	1890.5	1905.9	1921.3	1916.0	1921.3	1921.3	1905.9	1854.7	1783.0	1660.0
62.5°	1496.0	1511.3	1501.0	1511.3	1531.8	1511.3	1501.0	1490.9	1455.1	1408.9	1306.4
65°	1132.2	1142.5	1142.5	1147.6	1137.3	1142.5	1122.1	1106.7	1086.2	1035.0	968.3
67.5°	860.8	860.8	860.8	860.8	855.5	850.5	845.3	830.0	794.1	773.7	701.7
70°	660.8	630.1	630.1	630.1	630.1	635.4	620.0	599.5	589.2	553.3	502.1
72.5°	440.6	450.9	440.6	440.6	430.4	435.5	415.0	404.7	394.6	374.1	343.3
75°	317.6	292.0	302.2	307.5	292.0	302.2	281.7	261.3	261.3	245.8	230.5
77.5°	204.9	199.9	204.9	210.1	204.9	199.9	189.6	179.2	179.2	174.2	158.7
80°	148.6	143.4	143.4	143.4	138.3	143.4	133.3	133.3	123.0	117.9	107.5
82.5°	97.4	97.4	92.1	97.4	92.1	97.4	82.1	82.1	82.1	76.8	66.6
85°	66.6	56.3	56.3	61.5	51.2	61.5	56.3	51.2	46.2	46.2	40.9
87.5°	30.8	35.9	30.8	35.9	30.8	30.8	35.9	30.8	30.8	20.4	20.4
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°	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3
2.5°	10441.1	10446.2	10446.2	10466.8	10476.9	10482.0	10482.0	10523.1	10507.7	10518.0	10528.2
5°	10292.6	10323.2	10333.5	10333.5	10389.9	10410.3	10430.7	10476.9	10482.0	10512.7	10548.6
7.5°	10149.0	10184.8	10205.5	10251.4	10287.3	10323.2	10384.7	10415.5	10446.2	10487.3	10533.3
10°	10010.6	10051.8	10092.7	10128.6	10184.8	10231.0	10271.9	10343.7	10379.7	10435.9	10497.4
12.5°	9877.6	9934.0	9969.7	10031.2	10092.7	10133.6	10195.2	10261.9	10318.1	10374.4	10446.2
15°	9759.8	9826.3	9867.3	9934.0	10000.6	10056.8	10123.5	10205.5	10246.4	10313.1	10379.7
17.5°	9631.5	9703.4	9754.7	9816.0	9898.1	9959.4	10015.9	10097.7	10149.0	10220.7	10297.6
20°	9498.5	9570.2	9631.5	9693.1	9775.1	9836.4	9903.1	9985.2	10041.5	10113.1	10174.8
22.5°	9339.6	9406.3	9472.7	9544.4	9626.5	9677.7	9754.7	9826.3	9887.8	9954.4	10015.9
25°	9134.7	9216.7	9268.0	9334.3	9401.0	9457.3	9539.4	9611.0	9662.3	9723.9	9780.2
27.5°	8893.9	8955.4	8996.4	9052.6	9119.3	9170.6	9231.9	9303.9	9355.1	9411.4	9452.3
30°	8484.0	8540.5	8576.3	8617.2	8683.8	8730.0	8781.2	8847.7	8883.6	8924.6	8960.5
32.5°	7946.0	7992.2	8012.6	8043.4	8089.6	8135.5	8176.7	8233.0	8248.4	8273.9	8273.9
35°	7167.4	7177.5	7172.5	7182.8	7203.3	7228.8	7264.6	7300.5	7320.9	7320.9	7305.8
37.5°	6255.4	6194.1	6127.4	6076.2	6060.8	6050.5	6071.1	6086.2	6107.0	6117.1	6091.5
40°	5307.7	5169.4	5020.7	4887.4	4795.3	4754.4	4739.0	4749.1	4749.1	4785.0	4785.0
42.5°	4493.1	4277.8	4057.7	3857.7	3724.5	3622.2	3576.0	3576.0	3581.0	3606.8	3622.2
45°	3816.9	3545.3	3289.0	3068.8	2884.3	2751.0	2689.7	2674.4	2669.2	2679.4	2715.2
47.5°	3299.3	3017.6	2751.0	2479.7	2285.0	2151.8	2095.5	2074.7	2054.3	2074.7	2080.1
50°	2894.6	2602.6	2320.9	2049.3	1844.3	1726.5	1654.7	1624.0	1618.8	1618.8	1629.3
52.5°	2525.6	2254.2	1972.5	1695.8	1480.5	1368.0	1301.3	1285.9	1265.5	1285.9	1285.9
55°	2177.3	1905.9	1629.3	1368.0	1188.5	1070.8	1009.2	988.8	978.4	993.9	993.9
57.5°	1798.3	1567.6	1311.7	1075.9	896.7	814.6	768.4	742.9	737.6	747.9	737.6
60°	1475.5	1280.9	1060.5	845.3	707.0	620.0	584.2	573.8	563.4	573.8	573.8
62.5°	1168.1	1004.2	824.7	660.8	543.0	481.7	440.6	440.6	435.5	435.5	440.6
65°	865.9	737.6	609.6	471.3	379.1	332.9	302.2	302.2	297.2	302.2	297.2
67.5°	630.1	543.0	440.6	343.3	271.6	245.8	225.4	210.1	220.4	210.1	204.9
70°	461.2	389.3	317.6	261.3	210.1	184.5	169.2	163.9	153.7	153.7	153.7
72.5°	307.5	261.3	215.1	169.2	138.3	112.7	107.5	97.4	87.1	92.1	102.5
75°	204.9	174.2	153.7	123.0	92.1	92.1	61.5	61.5	51.2	61.5	46.2
77.5°	143.4	117.9	92.1	76.8	61.5	56.3	40.9	40.9	35.9	35.9	35.9
80°	102.5	87.1	66.6	56.3	40.9	40.9	35.9	30.8	25.6	25.6	30.8
82.5°	61.5	46.2	46.2	40.9	25.6	20.4	15.4	20.4	10.3	10.3	10.3
85°	35.9	30.8	25.6	15.4	10.3	10.3	5.0	0.0	5.0	5.0	0.0
87.5°	20.4	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°	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3
2.5°	10553.9	10548.6	10558.9	10558.9	10589.8	10584.5	10599.8	10599.8	10589.8	10594.8	10615.2
5°	10589.8	10605.1	10635.7	10661.4	10707.5	10728.1	10753.5	10779.3	10784.4	10799.7	10815.2
7.5°	10589.8	10641.0	10676.9	10722.8	10784.4	10820.2	10876.5	10922.7	10943.2	10968.6	10999.5
10°	10569.0	10620.4	10686.9	10738.2	10815.2	10871.5	10927.7	10999.5	11030.3	11071.1	11112.2
12.5°	10528.2	10584.5	10656.1	10722.8	10809.9	10861.1	10932.8	10999.5	11045.7	11101.9	11148.1
15°	10466.8	10533.3	10599.8	10666.5	10758.7	10820.2	10886.8	10963.6	11009.8	11071.1	11112.2
17.5°	10369.4	10441.1	10502.6	10564.0	10651.1	10722.8	10784.4	10856.1	10902.3	10953.5	11009.8
20°	10251.4	10318.1	10384.7	10435.9	10523.1	10584.5	10651.1	10717.8	10753.5	10764.0	10851.1
22.5°	10103.0	10149.0	10200.2	10282.3	10333.5	10389.9	10451.4	10512.7	10548.6	10605.1	10635.7
25°	9857.0	9903.1	9959.4	9995.3	10056.8	10103.0	10164.4	10231.0	10251.4	10292.6	10323.2
27.5°	9513.8	9539.4	9565.0	9595.6	9631.5	9657.2	9693.1	9723.9	9744.3	9764.8	9785.2
30°	8970.6	8970.6	8970.6	8950.2	8965.5	8981.0	8986.0	8981.0	8981.0	8976.0	8976.0
32.5°	8253.5	8212.6	8166.4	8125.5	8110.1	8089.6	8079.3	8063.9	8038.4	8023.0	8028.0
35°	7285.2	7193.0	7136.6	7085.4	7044.5	7013.8	6998.3	6982.9	6977.9	6957.4	6936.7
37.5°	6076.2	6009.6	5968.7	5937.8	5902.0	5871.2	5876.3	5881.6	5896.7	5886.6	5891.6
40°	4795.3	4779.9	4795.3	4759.4	4749.1	4759.4	4785.0	4821.1	4841.5	4861.9	4897.8
42.5°	3647.7	3673.2	3709.3	3709.3	3724.5	3745.1	3775.8	3832.3	3862.9	3898.6	3939.8
45°	2746.0	2776.8	2823.0	2838.1	2848.5	2874.0	2910.1	2956.1	2976.5	3007.3	3043.2
47.5°	2115.9	2136.4	2161.8	2187.6	2213.2	2223.5	2259.3	2259.3	2285.0	2305.4	2315.6
50°	1649.7	1670.2	1690.6	1705.9	1716.4	1731.7	1741.8	1757.2	1762.3	1772.6	1777.7
52.5°	1290.9	1316.7	1316.7	1326.8	1342.2	1357.6	1352.6	1357.6	1362.7	1362.7	1378.0
55°	1009.2	1009.2	1024.6	1024.6	1035.0	1029.8	1035.0	1035.0	1035.0	1035.0	1040.1
57.5°	753.1	758.4	773.7	763.4	758.4	768.4	758.4	768.4	763.4	773.7	758.4
60°	578.9	578.9	584.2	584.2	589.2	589.2	589.2	584.2	584.2	578.9	578.9
62.5°	435.5	440.6	445.8	440.6	440.6	440.6	435.5	435.5	430.4	425.1	425.1
65°	292.0	287.0	297.2	287.0	292.0	292.0	287.0	292.0	276.7	281.7	276.7
67.5°	210.1	204.9	199.9	204.9	199.9	194.6	194.6	199.9	204.9	189.6	189.6
70°	138.3	143.4	138.3	143.4	148.6	148.6	143.4	138.3	143.4	133.3	138.3
72.5°	87.1	87.1	87.1	87.1	87.1	92.1	92.1	92.1	82.1	82.1	76.8
75°	40.9	56.3	46.2	40.9	56.3	56.3	51.2	51.2	46.2	46.2	46.2
77.5°	40.9	30.8	30.8	30.8	30.8	30.8	30.8	30.8	25.6	30.8	25.6
80°	20.4	20.4	20.4	15.4	20.4	20.4	25.6	20.4	20.4	15.4	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: P249081

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3
2.5°	10610.2	10605.1	10610.2	10615.2	10610.2	10605.1	10610.2	10615.2	10594.8	10589.8	10599.8
5°	10835.6	10835.6	10845.8	10851.1	10845.8	10835.6	10835.6	10815.2	10799.7	10784.4	10779.3
7.5°	11030.3	11040.6	11050.7	11055.8	11050.7	11040.6	11030.3	10999.5	10968.6	10943.2	10922.7
10°	11148.1	11163.5	11184.0	11194.1	11184.0	11163.5	11148.1	11112.2	11071.1	11030.3	10999.5
12.5°	11199.4	11214.8	11240.3	11235.2	11240.3	11214.8	11199.4	11148.1	11101.9	11045.7	10999.5
15°	11163.5	11184.0	11209.4	11219.9	11209.4	11184.0	11163.5	11112.2	11071.1	11009.8	10963.6
17.5°	11050.7	11081.5	11096.9	11112.2	11096.9	11081.5	11050.7	11009.8	10953.5	10902.3	10856.1
20°	10897.0	10917.6	10938.0	10943.2	10938.0	10917.6	10897.0	10851.1	10764.0	10753.5	10717.8
22.5°	10676.9	10692.2	10738.2	10722.8	10738.2	10692.2	10676.9	10635.7	10605.1	10548.6	10512.7
25°	10359.0	10374.4	10379.7	10384.7	10379.7	10374.4	10359.0	10323.2	10292.6	10251.4	10231.0
27.5°	9811.0	9811.0	9821.1	9826.3	9821.1	9811.0	9811.0	9785.2	9764.8	9744.3	9723.9
30°	8981.0	8981.0	8981.0	9006.7	8981.0	8981.0	8981.0	8976.0	8976.0	8981.0	8981.0
32.5°	8023.0	8012.6	8002.5	8012.6	8002.5	8012.6	8023.0	8028.0	8023.0	8038.4	8063.9
35°	6936.7	6931.7	6947.1	6926.7	6947.1	6931.7	6936.7	6936.7	6957.4	6977.9	6982.9
37.5°	5896.7	5886.6	5907.0	5886.6	5907.0	5886.6	5896.7	5891.6	5886.6	5896.7	5881.6
40°	4908.1	4918.3	4918.3	4959.4	4918.3	4918.3	4908.1	4897.8	4861.9	4841.5	4821.1
42.5°	3960.3	3991.0	3980.7	4011.5	3980.7	3991.0	3960.3	3939.8	3898.6	3862.9	3832.3
45°	3063.6	3084.2	3084.2	3094.4	3084.2	3084.2	3063.6	3043.2	3007.3	2976.5	2956.1
47.5°	2351.5	2351.5	2351.5	2356.8	2351.5	2351.5	2351.5	2315.6	2305.4	2285.0	2259.3
50°	1788.0	1793.0	1798.3	1803.4	1798.3	1793.0	1788.0	1777.7	1772.6	1762.3	1757.2
52.5°	1373.0	1378.0	1368.0	1378.0	1368.0	1378.0	1373.0	1378.0	1362.7	1362.7	1357.6
55°	1040.1	1035.0	1040.1	1045.1	1040.1	1035.0	1040.1	1040.1	1035.0	1035.0	1035.0
57.5°	763.4	753.1	753.1	753.1	753.1	753.1	763.4	758.4	773.7	763.4	768.4
60°	568.7	573.8	573.8	578.9	573.8	573.8	568.7	578.9	578.9	584.2	584.2
62.5°	420.0	435.5	425.1	435.5	425.1	435.5	420.0	425.1	425.1	430.4	435.5
65°	271.6	271.6	271.6	276.7	271.6	271.6	271.6	276.7	281.7	276.7	292.0
67.5°	184.5	189.6	199.9	194.6	199.9	189.6	184.5	189.6	189.6	204.9	199.9
70°	148.6	133.3	133.3	148.6	133.3	133.3	148.6	138.3	133.3	143.4	138.3
72.5°	87.1	76.8	87.1	87.1	87.1	76.8	87.1	76.8	82.1	82.1	92.1
75°	46.2	40.9	35.9	51.2	35.9	40.9	46.2	46.2	46.2	46.2	51.2
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°	15.4	20.4	15.4	25.6	15.4	20.4	15.4	25.6	15.4	20.4	20.4
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: P249081

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3
2.5°	10599.8	10584.5	10589.8	10558.9	10558.9	10548.6	10553.9	10528.2	10518.0	10507.7	10523.1
5°	10753.5	10728.1	10707.5	10661.4	10635.7	10605.1	10589.8	10548.6	10512.7	10482.0	10476.9
7.5°	10876.5	10820.2	10784.4	10722.8	10676.9	10641.0	10589.8	10533.3	10487.3	10446.2	10415.5
10°	10927.7	10871.5	10815.2	10738.2	10686.9	10620.4	10569.0	10497.4	10435.9	10379.7	10343.7
12.5°	10932.8	10861.1	10809.9	10722.8	10656.1	10584.5	10528.2	10446.2	10374.4	10318.1	10261.9
15°	10886.8	10820.2	10758.7	10666.5	10599.8	10533.3	10466.8	10379.7	10313.1	10246.4	10205.5
17.5°	10784.4	10722.8	10651.1	10564.0	10502.6	10441.1	10369.4	10297.6	10220.7	10149.0	10097.7
20°	10651.1	10584.5	10523.1	10435.9	10384.7	10318.1	10251.4	10174.8	10113.1	10041.5	9985.2
22.5°	10451.4	10389.9	10333.5	10282.3	10200.2	10149.0	10103.0	10015.9	9954.4	9887.8	9826.3
25°	10164.4	10103.0	10056.8	9995.3	9959.4	9903.1	9857.0	9780.2	9723.9	9662.3	9611.0
27.5°	9693.1	9657.2	9631.5	9595.6	9565.0	9539.4	9513.8	9452.3	9411.4	9355.1	9303.9
30°	8986.0	8981.0	8965.5	8950.2	8970.6	8970.6	8970.6	8960.5	8924.6	8883.6	8847.7
32.5°	8079.3	8089.6	8110.1	8125.5	8166.4	8212.6	8253.5	8273.9	8273.9	8248.4	8233.0
35°	6998.3	7013.8	7044.5	7085.4	7136.6	7193.0	7285.2	7305.8	7320.9	7320.9	7300.5
37.5°	5876.3	5871.2	5902.0	5937.8	5968.7	6009.6	6076.2	6091.5	6117.1	6107.0	6086.2
40°	4785.0	4759.4	4749.1	4759.4	4795.3	4779.9	4795.3	4785.0	4785.0	4749.1	4749.1
42.5°	3775.8	3745.1	3724.5	3709.3	3709.3	3673.2	3647.7	3622.2	3606.8	3581.0	3576.0
45°	2910.1	2874.0	2848.5	2838.1	2823.0	2776.8	2746.0	2715.2	2679.4	2669.2	2674.4
47.5°	2259.3	2223.5	2213.2	2187.6	2161.8	2136.4	2115.9	2080.1	2074.7	2054.3	2074.7
50°	1741.8	1731.7	1716.4	1705.9	1690.6	1670.2	1649.7	1629.3	1618.8	1618.8	1624.0
52.5°	1352.6	1357.6	1342.2	1326.8	1316.7	1316.7	1290.9	1285.9	1285.9	1265.5	1285.9
55°	1035.0	1029.8	1035.0	1024.6	1024.6	1009.2	1009.2	993.9	993.9	978.4	988.8
57.5°	758.4	768.4	758.4	763.4	773.7	758.4	753.1	737.6	747.9	737.6	742.9
60°	589.2	589.2	589.2	584.2	584.2	578.9	578.9	573.8	573.8	563.4	573.8
62.5°	435.5	440.6	440.6	440.6	445.8	440.6	435.5	440.6	435.5	435.5	440.6
65°	287.0	292.0	292.0	287.0	297.2	287.0	292.0	297.2	302.2	297.2	302.2
67.5°	194.6	194.6	199.9	204.9	199.9	204.9	210.1	204.9	210.1	220.4	210.1
70°	143.4	148.6	148.6	143.4	138.3	143.4	138.3	153.7	153.7	153.7	163.9
72.5°	92.1	92.1	87.1	87.1	87.1	87.1	87.1	102.5	92.1	87.1	97.4
75°	51.2	56.3	56.3	40.9	46.2	56.3	40.9	46.2	61.5	51.2	61.5
77.5°	30.8	30.8	30.8	30.8	30.8	30.8	40.9	35.9	35.9	35.9	40.9
80°	25.6	20.4	20.4	15.4	20.4	20.4	20.4	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	20.4
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: P249081

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3
2.5°	10482.0	10482.0	10476.9	10466.8	10446.2	10446.2	10441.1	10425.6	10415.5	10410.3	10410.3
5°	10430.7	10410.3	10389.9	10333.5	10333.5	10323.2	10292.6	10271.9	10261.9	10236.1	10226.0
7.5°	10384.7	10323.2	10287.3	10251.4	10205.5	10184.8	10149.0	10133.6	10097.7	10072.3	10056.8
10°	10271.9	10231.0	10184.8	10128.6	10092.7	10051.8	10010.6	9980.0	9934.0	9908.2	9887.8
12.5°	10195.2	10133.6	10092.7	10031.2	9969.7	9934.0	9877.6	9841.7	9795.5	9744.3	9713.6
15°	10123.5	10056.8	10000.6	9934.0	9867.3	9826.3	9759.8	9718.8	9652.1	9600.9	9565.0
17.5°	10015.9	9959.4	9898.1	9816.0	9754.7	9703.4	9631.5	9580.5	9518.9	9452.3	9416.4
20°	9903.1	9836.4	9775.1	9693.1	9631.5	9570.2	9498.5	9442.2	9370.2	9308.9	9268.0
22.5°	9754.7	9677.7	9626.5	9544.4	9472.7	9406.3	9339.6	9273.0	9206.4	9155.1	9109.0
25°	9539.4	9457.3	9401.0	9334.3	9268.0	9216.7	9134.7	9093.8	9027.2	8981.0	8934.8
27.5°	9231.9	9170.6	9119.3	9052.6	8996.4	8955.4	8893.9	8853.0	8796.5	8755.6	8719.7
30°	8781.2	8730.0	8683.8	8617.2	8576.3	8540.5	8484.0	8448.1	8407.2	8361.0	8350.9
32.5°	8176.7	8135.5	8089.6	8043.4	8012.6	7992.2	7946.0	7925.6	7884.7	7858.9	7833.4
35°	7264.6	7228.8	7203.3	7182.8	7172.5	7177.5	7167.4	7187.9	7198.1	7193.0	7198.1
37.5°	6071.1	6050.5	6060.8	6076.2	6127.4	6194.1	6255.4	6347.6	6409.1	6470.7	6527.0
40°	4739.0	4754.4	4795.3	4887.4	5020.7	5169.4	5307.7	5481.9	5656.1	5779.1	5891.6
42.5°	3576.0	3622.2	3724.5	3857.7	4057.7	4277.8	4493.1	4749.1	4959.4	5164.1	5307.7
45°	2689.7	2751.0	2884.3	3068.8	3289.0	3545.3	3816.9	4103.6	4354.7	4564.8	4723.6
47.5°	2095.5	2151.8	2285.0	2479.7	2751.0	3017.6	3299.3	3596.5	3857.7	4062.7	4201.1
50°	1654.7	1726.5	1844.3	2049.3	2320.9	2602.6	2894.6	3186.6	3432.6	3606.8	3729.8
52.5°	1301.3	1368.0	1480.5	1695.8	1972.5	2254.2	2525.6	2812.7	3027.7	3196.9	3278.9
55°	1009.2	1070.8	1188.5	1368.0	1629.3	1905.9	2177.3	2423.4	2623.0	2746.0	2823.0
57.5°	768.4	814.6	896.7	1075.9	1311.7	1567.6	1798.3	2044.3	2197.9	2285.0	2336.1
60°	584.2	620.0	707.0	845.3	1060.5	1280.9	1475.5	1660.0	1783.0	1854.7	1905.9
62.5°	440.6	481.7	543.0	660.8	824.7	1004.2	1168.1	1306.4	1408.9	1455.1	1490.9
65°	302.2	332.9	379.1	471.3	609.6	737.6	865.9	968.3	1035.0	1086.2	1106.7
67.5°	225.4	245.8	271.6	343.3	440.6	543.0	630.1	701.7	773.7	794.1	830.0
70°	169.2	184.5	210.1	261.3	317.6	389.3	461.2	502.1	553.3	589.2	599.5
72.5°	107.5	112.7	138.3	169.2	215.1	261.3	307.5	343.3	374.1	394.6	404.7
75°	61.5	92.1	92.1	123.0	153.7	174.2	204.9	230.5	245.8	261.3	261.3
77.5°	40.9	56.3	61.5	76.8	92.1	117.9	143.4	158.7	174.2	179.2	179.2
80°	35.9	40.9	40.9	56.3	66.6	87.1	102.5	107.5	117.9	123.0	133.3
82.5°	15.4	20.4	25.6	40.9	46.2	46.2	61.5	66.6	76.8	82.1	82.1
85°	5.0	10.3	10.3	15.4	25.6	30.8	35.9	40.9	46.2	46.2	51.2
87.5°	5.0	5.0	0.0	5.0	10.3	10.3	20.4	20.4	20.4	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: P249081

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3	10492.3
2.5°	10400.2	10405.2	10384.7	10379.7	10369.4	10374.4	10384.7
5°	10210.6	10215.7	10195.2	10174.8	10174.8	10169.5	10174.8
7.5°	10031.2	10036.4	10005.6	9995.3	9974.8	9980.0	9980.0
10°	9851.9	9851.9	9805.9	9800.7	9785.2	9780.2	9780.2
12.5°	9677.7	9662.3	9626.5	9606.0	9616.4	9585.6	9585.6
15°	9524.0	9498.5	9452.3	9436.9	9411.4	9401.0	9401.0
17.5°	9365.2	9344.8	9303.9	9273.0	9242.2	9237.2	9242.2
20°	9211.5	9191.0	9139.7	9119.3	9093.8	9093.8	9083.5
22.5°	9057.7	9037.3	8991.3	8976.0	8940.1	8940.1	8945.1
25°	8898.9	8883.6	8832.2	8822.2	8817.1	8796.5	8806.8
27.5°	8683.8	8673.5	8632.6	8617.2	8596.7	8591.7	8601.8
30°	8289.3	8273.9	8243.3	8227.9	8192.0	8197.1	8207.3
32.5°	7797.6	7777.0	7735.9	7720.6	7689.9	7679.6	7684.7
35°	7182.8	7167.4	7131.6	7131.6	7100.8	7090.4	7100.8
37.5°	6557.8	6573.0	6557.8	6573.0	6557.8	6552.6	6557.8
40°	5968.7	6024.9	6035.0	6091.5	6071.1	6101.7	6096.6
42.5°	5404.9	5497.0	5533.1	5579.1	5569.0	5589.4	5604.9
45°	4836.2	4913.2	4949.0	4979.8	4984.9	4995.2	5000.2
47.5°	4298.3	4359.8	4364.9	4400.7	4395.7	4395.7	4411.1
50°	3796.4	3837.3	3847.4	3873.2	3852.7	3842.3	3847.4
52.5°	3330.2	3371.1	3360.8	3371.1	3345.5	3335.2	3340.2
55°	2853.6	2874.0	2874.0	2874.0	2843.4	2843.4	2843.4
57.5°	2366.9	2372.1	2361.8	2366.9	2361.8	2331.0	2326.0
60°	1921.3	1921.3	1916.0	1921.3	1905.9	1890.5	1890.5
62.5°	1501.0	1511.3	1531.8	1511.3	1501.0	1511.3	1496.0
65°	1122.1	1142.5	1137.3	1147.6	1142.5	1142.5	1132.2
67.5°	845.3	850.5	855.5	860.8	860.8	860.8	860.8
70°	620.0	635.4	630.1	630.1	630.1	630.1	660.8
72.5°	415.0	435.5	430.4	440.6	440.6	450.9	440.6
75°	281.7	302.2	292.0	307.5	302.2	292.0	317.6
77.5°	189.6	199.9	204.9	210.1	204.9	199.9	204.9
80°	133.3	143.4	138.3	143.4	143.4	143.4	148.6
82.5°	82.1	97.4	92.1	97.4	92.1	97.4	97.4
85°	56.3	61.5	51.2	61.5	56.3	56.3	66.6
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)