

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: P248872

Luminaire Tested: **LD8B150D010 ER8B150827 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248872  
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: LD8B150D010 ER8B150827 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11649.0 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

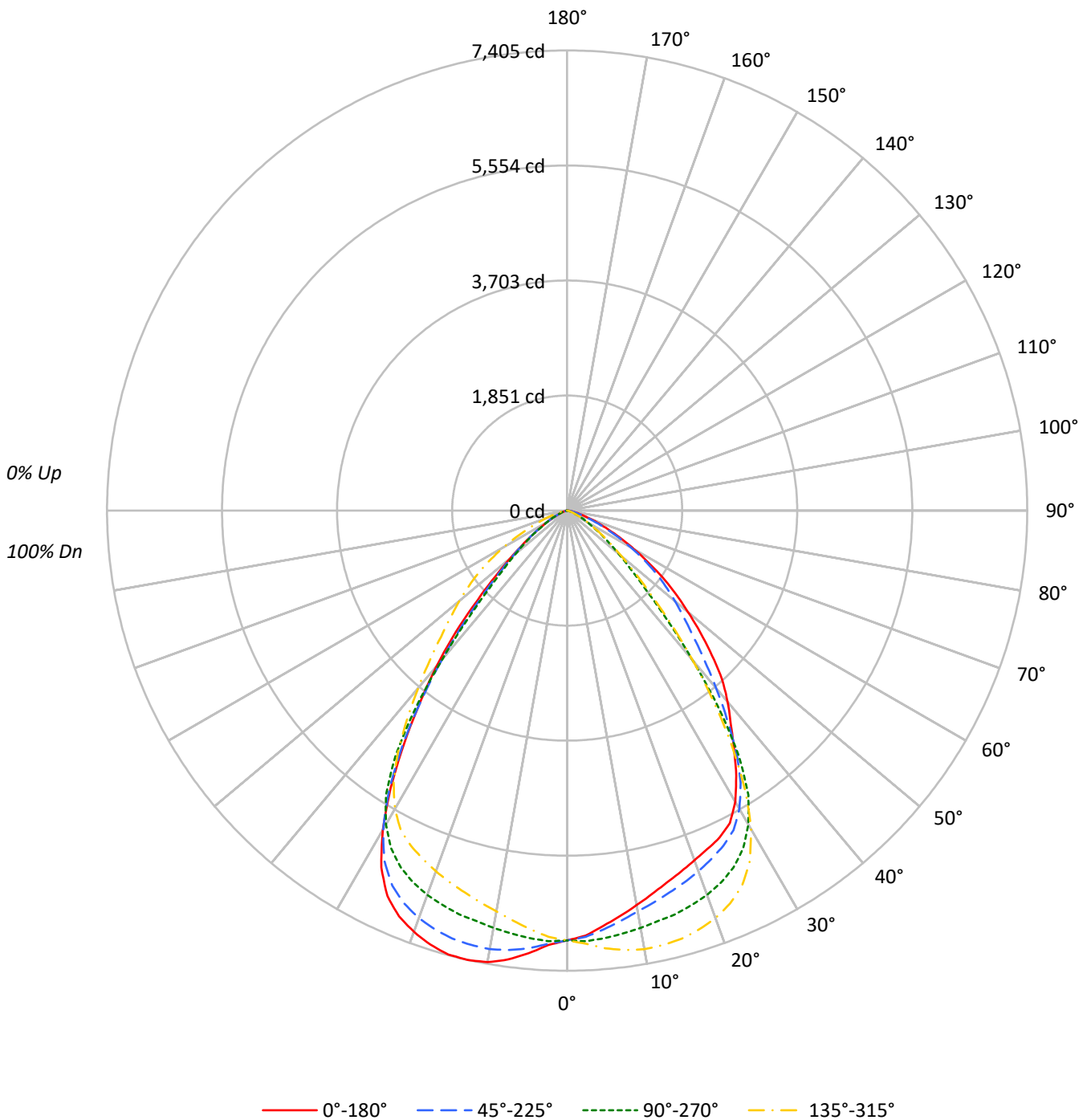
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	90°	180°	270°
0°	213252	213252	213252	213252
5°	207588	213754	221387	213754
10°	201847	213476	231026	213476
15°	197815	214741	236085	214741
20°	196465	215971	236690	215971
25°	197500	215536	232888	215536
30°	192614	207648	211376	207648
35°	176182	181140	171861	181140
40°	161756	126003	131582	126003
45°	143727	76870	88945	76870
50°	121654	51350	57025	51350
55°	100760	35036	37031	35036
60°	76850	23325	23528	23325
65°	54446	14535	13309	14535
70°	39273	9737	8836	9737
75°	24936	4837	4027	4837
80°	17403	3605	2983	3605
85°	15532	0	1168	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	658.2	5.7
10°-20°	1906.1	16.4
20°-30°	2886.3	24.8
30°-40°	2892.8	24.8
40°-50°	1816.5	15.6
50°-60°	968.0	8.3
60°-70°	398.1	3.4
70°-80°	105.2	0.9
80°-90°	17.8	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°	5450.7	46.8
0°-40°	8343.4	71.6
0°-60°	11128.0	95.5
0°-90°	11649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11649.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	6916	6916	6916	6916	6916	
5°	6706	6906	7152	6906	6706	632
15°	6196	6727	7395	6727	6196	1753
25°	5805	6335	6845	6335	5805	2662
35°	4680	4812	4565	4812	4680	2932
45°	3296	1763	2040	1763	3296	2535
55°	1874	652	689	652	1874	1671
65°	746	199	182	199	746	774
75°	209	41	34	41	209	237
85°	44	0	3	0	44	48
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°	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6
2.5°	6844.8	6837.9	6834.6	6841.4	6844.8	6858.2	6854.9	6861.6	6861.6	6865.0	6871.7
5°	6706.3	6702.8	6706.3	6706.3	6719.8	6733.3	6730.0	6740.1	6746.8	6763.7	6770.4
7.5°	6578.0	6578.0	6574.6	6588.0	6594.9	6615.1	6611.7	6628.6	6638.8	6655.6	6679.2
10°	6446.3	6446.3	6449.6	6459.8	6463.2	6493.5	6493.5	6517.2	6530.6	6547.6	6578.0
12.5°	6318.0	6318.0	6338.3	6331.5	6344.9	6368.6	6378.7	6402.3	6422.6	6456.4	6486.9
15°	6196.4	6196.4	6203.2	6220.0	6230.1	6260.6	6277.4	6304.5	6328.1	6361.9	6405.8
17.5°	6091.7	6088.4	6091.7	6112.0	6132.3	6159.3	6172.7	6206.5	6230.1	6274.1	6314.6
20°	5987.0	5993.9	5993.9	6010.7	6024.2	6057.9	6071.4	6108.7	6135.6	6176.1	6223.5
22.5°	5895.9	5892.5	5892.5	5916.2	5926.3	5956.6	5970.1	6003.9	6034.3	6068.1	6112.0
25°	5804.7	5797.9	5811.5	5814.8	5821.5	5855.3	5865.4	5889.1	5919.5	5949.9	5993.9
27.5°	5669.6	5662.9	5666.3	5679.7	5689.9	5716.8	5723.7	5747.3	5770.9	5797.9	5835.1
30°	5409.5	5402.9	5399.5	5423.2	5433.3	5453.5	5463.6	5504.2	5510.9	5541.3	5568.3
32.5°	5065.1	5061.8	5068.6	5088.7	5098.9	5126.0	5139.5	5163.1	5179.9	5196.9	5223.8
35°	4680.2	4673.4	4680.2	4700.5	4700.5	4724.2	4734.3	4744.3	4741.0	4744.3	4737.7
37.5°	4322.3	4318.9	4322.3	4332.4	4322.3	4332.4	4322.3	4302.1	4264.9	4224.4	4183.8
40°	4018.4	4021.7	4001.6	4015.0	3977.8	3971.1	3934.0	3883.3	3809.1	3728.0	3613.2
42.5°	3694.2	3684.1	3670.6	3677.3	3647.0	3623.2	3562.5	3498.4	3403.8	3268.8	3130.2
45°	3295.8	3292.4	3285.6	3282.3	3262.0	3238.4	3187.6	3113.4	3008.7	2870.3	2704.8
47.5°	2907.4	2897.3	2897.3	2900.6	2877.0	2873.6	2833.1	2769.0	2677.8	2542.7	2370.5
50°	2535.9	2532.6	2539.4	2552.8	2535.9	2529.2	2502.3	2458.3	2377.3	2262.5	2100.3
52.5°	2201.6	2198.3	2205.1	2221.9	2215.1	2221.9	2194.9	2161.2	2107.1	1995.6	1853.9
55°	1874.2	1874.2	1874.2	1894.3	1894.3	1894.3	1880.8	1860.7	1809.9	1728.9	1597.3
57.5°	1533.1	1536.4	1556.7	1560.0	1556.7	1563.5	1560.0	1539.7	1506.1	1448.7	1347.4
60°	1246.1	1246.1	1256.2	1266.3	1262.9	1266.3	1266.3	1256.2	1222.4	1175.2	1094.1
62.5°	986.0	996.1	989.3	996.1	1009.6	996.1	989.3	982.7	959.0	928.6	861.1
65°	746.2	753.1	753.1	756.4	749.6	753.1	739.6	729.4	715.9	682.2	638.2
67.5°	567.4	567.4	567.4	567.4	563.9	560.6	557.2	547.1	523.4	510.0	462.6
70°	435.6	415.3	415.3	415.3	415.3	418.8	408.6	395.2	388.3	364.7	330.9
72.5°	290.4	297.2	290.4	290.4	283.7	287.0	273.5	266.7	260.1	246.6	226.3
75°	209.3	192.5	199.2	202.6	192.5	199.2	185.7	172.2	172.2	162.1	151.9
77.5°	135.1	131.8	135.1	138.4	135.1	131.8	125.0	118.1	118.1	114.8	104.7
80°	98.0	94.5	94.5	94.5	91.2	94.5	87.8	87.8	81.0	77.7	70.9
82.5°	64.2	64.2	60.7	64.2	60.7	64.2	54.1	54.1	54.1	50.6	43.9
85°	43.9	37.1	37.1	40.6	33.8	40.6	37.1	33.8	30.4	30.4	27.0
87.5°	20.3	23.6	20.3	23.6	20.3	20.3	23.6	20.3	20.3	13.5	13.5
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°	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6
2.5°	6881.9	6885.2	6885.2	6898.8	6905.5	6908.8	6908.8	6935.9	6925.8	6932.6	6939.3
5°	6784.0	6804.2	6811.0	6811.0	6848.1	6861.6	6875.1	6905.5	6908.8	6929.1	6952.8
7.5°	6689.4	6713.0	6726.6	6756.9	6780.5	6804.2	6844.8	6865.0	6885.2	6912.3	6942.6
10°	6598.2	6625.3	6652.3	6675.9	6713.0	6743.4	6770.4	6817.7	6841.4	6878.5	6919.0
12.5°	6510.5	6547.6	6571.2	6611.7	6652.3	6679.2	6719.8	6763.7	6800.8	6837.9	6885.2
15°	6432.8	6476.7	6503.7	6547.6	6591.5	6628.6	6672.5	6726.6	6753.6	6797.5	6841.4
17.5°	6348.3	6395.7	6429.5	6469.9	6524.0	6564.4	6601.7	6655.6	6689.4	6736.6	6787.4
20°	6260.6	6307.8	6348.3	6388.9	6442.9	6483.4	6527.3	6581.4	6618.5	6665.7	6706.3
22.5°	6155.9	6199.8	6243.6	6290.9	6344.9	6378.7	6429.5	6476.7	6517.2	6561.1	6601.7
25°	6020.8	6074.9	6108.7	6152.4	6196.4	6233.5	6287.5	6334.8	6368.6	6409.2	6446.3
27.5°	5862.1	5902.7	5929.6	5966.7	6010.7	6044.4	6084.9	6132.3	6166.1	6203.2	6230.1
30°	5591.9	5629.1	5652.8	5679.7	5723.7	5754.1	5787.9	5831.7	5855.3	5882.4	5906.0
32.5°	5237.3	5267.8	5281.2	5301.5	5332.0	5362.3	5389.4	5426.5	5436.6	5453.5	5453.5
35°	4724.2	4730.8	4727.5	4734.3	4747.8	4764.6	4788.2	4811.9	4825.4	4825.4	4815.3
37.5°	4123.0	4082.6	4038.7	4004.9	3994.7	3987.9	4001.6	4011.6	4025.2	4031.9	4015.0
40°	3498.4	3407.2	3309.2	3221.4	3160.7	3133.7	3123.5	3130.2	3130.2	3153.8	3153.8
42.5°	2961.5	2819.6	2674.5	2542.7	2454.9	2387.5	2357.0	2357.0	2360.3	2377.3	2387.5
45°	2515.7	2336.7	2167.8	2022.7	1901.1	1813.3	1772.8	1762.7	1759.3	1766.0	1789.6
47.5°	2174.7	1989.0	1813.3	1634.4	1506.1	1418.3	1381.2	1367.5	1354.1	1367.5	1371.0
50°	1907.9	1715.4	1529.7	1350.7	1215.6	1137.9	1090.7	1070.4	1067.0	1067.0	1073.8
52.5°	1664.7	1485.8	1300.1	1117.8	975.9	901.6	857.7	847.6	834.1	847.6	847.6
55°	1435.1	1256.2	1073.8	901.6	783.4	705.8	665.2	651.7	644.9	655.1	655.1
57.5°	1185.3	1033.3	864.5	709.1	591.0	536.9	506.5	489.7	486.2	493.0	486.2
60°	972.5	844.2	699.0	557.2	466.0	408.6	385.0	378.2	371.4	378.2	378.2
62.5°	769.9	661.9	543.6	435.6	357.9	317.5	290.4	290.4	287.0	287.0	290.4
65°	570.7	486.2	401.8	310.6	249.9	219.5	199.2	199.2	195.8	199.2	195.8
67.5°	415.3	357.9	290.4	226.3	179.0	162.1	148.6	138.4	145.2	138.4	135.1
70°	304.0	256.6	209.3	172.2	138.4	121.6	111.5	108.0	101.3	101.3	101.3
72.5°	202.6	172.2	141.8	111.5	91.2	74.2	70.9	64.2	57.4	60.7	67.5
75°	135.1	114.8	101.3	81.0	60.7	60.7	40.6	40.6	33.8	40.6	30.4
77.5°	94.5	77.7	60.7	50.6	40.6	37.1	27.0	27.0	23.6	23.6	23.6
80°	67.5	57.4	43.9	37.1	27.0	27.0	23.6	20.3	16.8	16.8	20.3
82.5°	40.6	30.4	30.4	27.0	16.8	13.5	10.1	13.5	6.8	6.8	6.8
85°	23.6	20.3	16.8	10.1	6.8	6.8	3.3	0.0	3.3	3.3	0.0
87.5°	13.5	6.8	6.8	3.3	0.0	3.3	3.3	0.0	0.0	0.0	6.8
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°	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6
2.5°	6956.2	6952.8	6959.6	6959.6	6979.9	6976.4	6986.5	6986.5	6979.9	6983.2	6996.7
5°	6979.9	6990.0	7010.2	7027.1	7057.4	7071.0	7087.9	7104.8	7108.1	7118.3	7128.4
7.5°	6979.9	7013.6	7037.3	7067.6	7108.1	7131.8	7168.9	7199.3	7212.8	7229.6	7249.9
10°	6966.2	7000.0	7043.9	7077.7	7128.4	7165.5	7202.7	7249.9	7270.2	7297.2	7324.3
12.5°	6939.3	6976.4	7023.6	7067.6	7125.0	7158.7	7206.0	7249.9	7280.4	7317.5	7347.9
15°	6898.8	6942.6	6986.5	7030.4	7091.2	7131.8	7175.7	7226.3	7256.7	7297.2	7324.3
17.5°	6834.6	6881.9	6922.5	6962.9	7020.3	7067.6	7108.1	7155.4	7185.8	7219.6	7256.7
20°	6756.9	6800.8	6844.8	6878.5	6935.9	6976.4	7020.3	7064.2	7087.9	7094.7	7152.1
22.5°	6659.1	6689.4	6723.1	6777.2	6811.0	6848.1	6888.7	6929.1	6952.8	6990.0	7010.2
25°	6496.9	6527.3	6564.4	6588.0	6628.6	6659.1	6699.5	6743.4	6756.9	6784.0	6804.2
27.5°	6270.7	6287.5	6304.5	6324.7	6348.3	6365.2	6388.9	6409.2	6422.6	6436.1	6449.6
30°	5912.7	5912.7	5912.7	5899.2	5909.3	5919.5	5922.8	5919.5	5919.5	5916.2	5916.2
32.5°	5440.0	5413.0	5382.6	5355.6	5345.5	5332.0	5325.2	5315.0	5298.2	5288.1	5291.4
35°	4801.7	4741.0	4703.9	4670.1	4643.1	4622.8	4612.7	4602.6	4599.2	4585.7	4572.1
37.5°	4004.9	3961.0	3934.0	3913.7	3890.1	3869.8	3873.1	3876.6	3886.6	3879.9	3883.3
40°	3160.7	3150.5	3160.7	3137.0	3130.2	3137.0	3153.8	3177.6	3191.1	3204.6	3228.2
42.5°	2404.3	2421.1	2444.9	2444.9	2454.9	2468.5	2488.6	2525.9	2546.0	2569.7	2596.8
45°	1809.9	1830.2	1860.7	1870.7	1877.5	1894.3	1918.1	1948.4	1961.9	1982.2	2005.8
47.5°	1394.6	1408.1	1424.9	1441.9	1458.7	1465.5	1489.2	1489.2	1506.1	1519.6	1526.3
50°	1087.3	1100.8	1114.3	1124.4	1131.2	1141.4	1148.1	1158.2	1161.5	1168.4	1171.7
52.5°	850.9	867.9	867.9	874.5	884.7	894.8	891.5	894.8	898.2	898.2	908.3
55°	665.2	665.2	675.4	675.4	682.2	678.7	682.2	682.2	682.2	682.2	685.5
57.5°	496.3	499.8	510.0	503.1	499.8	506.5	499.8	506.5	503.1	510.0	499.8
60°	381.5	381.5	385.0	385.0	388.3	388.3	388.3	385.0	385.0	381.5	381.5
62.5°	287.0	290.4	293.8	290.4	290.4	290.4	287.0	287.0	283.7	280.2	280.2
65°	192.5	189.2	195.8	189.2	192.5	192.5	189.2	192.5	182.4	185.7	182.4
67.5°	138.4	135.1	131.8	135.1	131.8	128.3	128.3	131.8	135.1	125.0	125.0
70°	91.2	94.5	91.2	94.5	98.0	98.0	94.5	91.2	94.5	87.8	91.2
72.5°	57.4	57.4	57.4	57.4	57.4	60.7	60.7	60.7	54.1	54.1	50.6
75°	27.0	37.1	30.4	27.0	37.1	37.1	33.8	33.8	30.4	30.4	30.4
77.5°	27.0	20.3	20.3	20.3	20.3	20.3	20.3	20.3	16.8	20.3	16.8
80°	13.5	13.5	13.5	10.1	13.5	13.5	16.8	13.5	13.5	10.1	16.8
82.5°	6.8	6.8	6.8	0.0	3.3	6.8	6.8	3.3	6.8	6.8	3.3
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: P248872

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6
2.5°	6993.3	6990.0	6993.3	6996.7	6993.3	6990.0	6993.3	6996.7	6983.2	6979.9	6986.5
5°	7141.9	7141.9	7148.6	7152.1	7148.6	7141.9	7141.9	7128.4	7118.3	7108.1	7104.8
7.5°	7270.2	7277.0	7283.7	7287.0	7283.7	7277.0	7270.2	7249.9	7229.6	7212.8	7199.3
10°	7347.9	7358.1	7371.5	7378.2	7371.5	7358.1	7347.9	7324.3	7297.2	7270.2	7249.9
12.5°	7381.7	7391.8	7408.6	7405.3	7408.6	7391.8	7381.7	7347.9	7317.5	7280.4	7249.9
15°	7358.1	7371.5	7388.4	7395.2	7388.4	7371.5	7358.1	7324.3	7297.2	7256.7	7226.3
17.5°	7283.7	7304.0	7314.1	7324.3	7314.1	7304.0	7283.7	7256.7	7219.6	7185.8	7155.4
20°	7182.4	7196.0	7209.5	7212.8	7209.5	7196.0	7182.4	7152.1	7094.7	7087.9	7064.2
22.5°	7037.3	7047.4	7077.7	7067.6	7077.7	7047.4	7037.3	7010.2	6990.0	6952.8	6929.1
25°	6827.8	6837.9	6841.4	6844.8	6841.4	6837.9	6827.8	6804.2	6784.0	6756.9	6743.4
27.5°	6466.6	6466.6	6473.2	6476.7	6473.2	6466.6	6466.6	6449.6	6436.1	6422.6	6409.2
30°	5919.5	5919.5	5919.5	5936.4	5919.5	5919.5	5919.5	5916.2	5916.2	5919.5	5919.5
32.5°	5288.1	5281.2	5274.6	5281.2	5274.6	5281.2	5288.1	5291.4	5288.1	5298.2	5315.0
35°	4572.1	4568.8	4578.9	4565.4	4578.9	4568.8	4572.1	4572.1	4585.7	4599.2	4602.6
37.5°	3886.6	3879.9	3893.4	3879.9	3893.4	3879.9	3886.6	3883.3	3879.9	3886.6	3876.6
40°	3235.0	3241.7	3241.7	3268.8	3241.7	3241.7	3235.0	3228.2	3204.6	3191.1	3177.6
42.5°	2610.3	2630.5	2623.7	2644.0	2623.7	2630.5	2610.3	2596.8	2569.7	2546.0	2525.9
45°	2019.3	2032.9	2032.9	2039.6	2032.9	2032.9	2019.3	2005.8	1982.2	1961.9	1948.4
47.5°	1549.9	1549.9	1549.9	1553.4	1549.9	1549.9	1549.9	1526.3	1519.6	1506.1	1489.2
50°	1178.5	1181.8	1185.3	1188.7	1185.3	1181.8	1178.5	1171.7	1168.4	1161.5	1158.2
52.5°	905.0	908.3	901.6	908.3	901.6	908.3	905.0	908.3	898.2	898.2	894.8
55°	685.5	682.2	685.5	688.8	685.5	682.2	685.5	685.5	682.2	682.2	682.2
57.5°	503.1	496.3	496.3	496.3	496.3	496.3	503.1	499.8	510.0	503.1	506.5
60°	374.9	378.2	378.2	381.5	378.2	378.2	374.9	381.5	381.5	385.0	385.0
62.5°	276.9	287.0	280.2	287.0	280.2	287.0	276.9	280.2	280.2	283.7	287.0
65°	179.0	179.0	179.0	182.4	179.0	179.0	179.0	182.4	185.7	182.4	192.5
67.5°	121.6	125.0	131.8	128.3	131.8	125.0	121.6	125.0	125.0	135.1	131.8
70°	98.0	87.8	87.8	98.0	87.8	87.8	98.0	91.2	87.8	94.5	91.2
72.5°	57.4	50.6	57.4	57.4	57.4	50.6	57.4	50.6	54.1	54.1	60.7
75°	30.4	27.0	23.6	33.8	23.6	27.0	30.4	30.4	30.4	30.4	33.8
77.5°	20.3	16.8	23.6	23.6	23.6	16.8	20.3	16.8	20.3	16.8	20.3
80°	10.1	13.5	10.1	16.8	10.1	13.5	10.1	16.8	10.1	13.5	13.5
82.5°	3.3	6.8	6.8	6.8	6.8	6.8	3.3	3.3	6.8	6.8	3.3
85°	0.0	6.8	3.3	3.3	3.3	6.8	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	0.0	0.0	3.3	0.0	0.0	3.3	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: P248872

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6
2.5°	6986.5	6976.4	6979.9	6959.6	6959.6	6952.8	6956.2	6939.3	6932.6	6925.8	6935.9
5°	7087.9	7071.0	7057.4	7027.1	7010.2	6990.0	6979.9	6952.8	6929.1	6908.8	6905.5
7.5°	7168.9	7131.8	7108.1	7067.6	7037.3	7013.6	6979.9	6942.6	6912.3	6885.2	6865.0
10°	7202.7	7165.5	7128.4	7077.7	7043.9	7000.0	6966.2	6919.0	6878.5	6841.4	6817.7
12.5°	7206.0	7158.7	7125.0	7067.6	7023.6	6976.4	6939.3	6885.2	6837.9	6800.8	6763.7
15°	7175.7	7131.8	7091.2	7030.4	6986.5	6942.6	6898.8	6841.4	6797.5	6753.6	6726.6
17.5°	7108.1	7067.6	7020.3	6962.9	6922.5	6881.9	6834.6	6787.4	6736.6	6689.4	6655.6
20°	7020.3	6976.4	6935.9	6878.5	6844.8	6800.8	6756.9	6706.3	6665.7	6618.5	6581.4
22.5°	6888.7	6848.1	6811.0	6777.2	6723.1	6689.4	6659.1	6601.7	6561.1	6517.2	6476.7
25°	6699.5	6659.1	6628.6	6588.0	6564.4	6527.3	6496.9	6446.3	6409.2	6368.6	6334.8
27.5°	6388.9	6365.2	6348.3	6324.7	6304.5	6287.5	6270.7	6230.1	6203.2	6166.1	6132.3
30°	5922.8	5919.5	5909.3	5899.2	5912.7	5912.7	5912.7	5906.0	5882.4	5855.3	5831.7
32.5°	5325.2	5332.0	5345.5	5355.6	5382.6	5413.0	5440.0	5453.5	5453.5	5436.6	5426.5
35°	4612.7	4622.8	4643.1	4670.1	4703.9	4741.0	4801.7	4815.3	4825.4	4825.4	4811.9
37.5°	3873.1	3869.8	3890.1	3913.7	3934.0	3961.0	4004.9	4015.0	4031.9	4025.2	4011.6
40°	3153.8	3137.0	3130.2	3137.0	3160.7	3150.5	3160.7	3153.8	3153.8	3130.2	3130.2
42.5°	2488.6	2468.5	2454.9	2444.9	2444.9	2421.1	2404.3	2387.5	2377.3	2360.3	2357.0
45°	1918.1	1894.3	1877.5	1870.7	1860.7	1830.2	1809.9	1789.6	1766.0	1759.3	1762.7
47.5°	1489.2	1465.5	1458.7	1441.9	1424.9	1408.1	1394.6	1371.0	1367.5	1354.1	1367.5
50°	1148.1	1141.4	1131.2	1124.4	1114.3	1100.8	1087.3	1073.8	1067.0	1067.0	1070.4
52.5°	891.5	894.8	884.7	874.5	867.9	867.9	850.9	847.6	847.6	834.1	847.6
55°	682.2	678.7	682.2	675.4	675.4	665.2	665.2	655.1	655.1	644.9	651.7
57.5°	499.8	506.5	499.8	503.1	510.0	499.8	496.3	486.2	493.0	486.2	489.7
60°	388.3	388.3	388.3	385.0	385.0	381.5	381.5	378.2	378.2	371.4	378.2
62.5°	287.0	290.4	290.4	290.4	293.8	290.4	287.0	290.4	287.0	287.0	290.4
65°	189.2	192.5	192.5	189.2	195.8	189.2	192.5	195.8	199.2	195.8	199.2
67.5°	128.3	128.3	131.8	135.1	131.8	135.1	138.4	135.1	138.4	145.2	138.4
70°	94.5	98.0	98.0	94.5	91.2	94.5	91.2	101.3	101.3	101.3	108.0
72.5°	60.7	60.7	57.4	57.4	57.4	57.4	57.4	67.5	60.7	57.4	64.2
75°	33.8	37.1	37.1	27.0	30.4	37.1	27.0	30.4	40.6	33.8	40.6
77.5°	20.3	20.3	20.3	20.3	20.3	20.3	27.0	23.6	23.6	23.6	27.0
80°	16.8	13.5	13.5	10.1	13.5	13.5	13.5	20.3	16.8	16.8	20.3
82.5°	6.8	6.8	3.3	0.0	6.8	6.8	6.8	6.8	6.8	6.8	13.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	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: P248872

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6
2.5°	6908.8	6908.8	6905.5	6898.8	6885.2	6885.2	6881.9	6871.7	6865.0	6861.6	6861.6
5°	6875.1	6861.6	6848.1	6811.0	6811.0	6804.2	6784.0	6770.4	6763.7	6746.8	6740.1
7.5°	6844.8	6804.2	6780.5	6756.9	6726.6	6713.0	6689.4	6679.2	6655.6	6638.8	6628.6
10°	6770.4	6743.4	6713.0	6675.9	6652.3	6625.3	6598.2	6578.0	6547.6	6530.6	6517.2
12.5°	6719.8	6679.2	6652.3	6611.7	6571.2	6547.6	6510.5	6486.9	6456.4	6422.6	6402.3
15°	6672.5	6628.6	6591.5	6547.6	6503.7	6476.7	6432.8	6405.8	6361.9	6328.1	6304.5
17.5°	6601.7	6564.4	6524.0	6469.9	6429.5	6395.7	6348.3	6314.6	6274.1	6230.1	6206.5
20°	6527.3	6483.4	6442.9	6388.9	6348.3	6307.8	6260.6	6223.5	6176.1	6135.6	6108.7
22.5°	6429.5	6378.7	6344.9	6290.9	6243.6	6199.8	6155.9	6112.0	6068.1	6034.3	6003.9
25°	6287.5	6233.5	6196.4	6152.4	6108.7	6074.9	6020.8	5993.9	5949.9	5919.5	5889.1
27.5°	6084.9	6044.4	6010.7	5966.7	5929.6	5902.7	5862.1	5835.1	5797.9	5770.9	5747.3
30°	5787.9	5754.1	5723.7	5679.7	5652.8	5629.1	5591.9	5568.3	5541.3	5510.9	5504.2
32.5°	5389.4	5362.3	5332.0	5301.5	5281.2	5267.8	5237.3	5223.8	5196.9	5179.9	5163.1
35°	4788.2	4764.6	4747.8	4734.3	4727.5	4730.8	4724.2	4737.7	4744.3	4741.0	4744.3
37.5°	4001.6	3987.9	3994.7	4004.9	4038.7	4082.6	4123.0	4183.8	4224.4	4264.9	4302.1
40°	3123.5	3133.7	3160.7	3221.4	3309.2	3407.2	3498.4	3613.2	3728.0	3809.1	3883.3
42.5°	2357.0	2387.5	2454.9	2542.7	2674.5	2819.6	2961.5	3130.2	3268.8	3403.8	3498.4
45°	1772.8	1813.3	1901.1	2022.7	2167.8	2336.7	2515.7	2704.8	2870.3	3008.7	3113.4
47.5°	1381.2	1418.3	1506.1	1634.4	1813.3	1989.0	2174.7	2370.5	2542.7	2677.8	2769.0
50°	1090.7	1137.9	1215.6	1350.7	1529.7	1715.4	1907.9	2100.3	2262.5	2377.3	2458.3
52.5°	857.7	901.6	975.9	1117.8	1300.1	1485.8	1664.7	1853.9	1995.6	2107.1	2161.2
55°	665.2	705.8	783.4	901.6	1073.8	1256.2	1435.1	1597.3	1728.9	1809.9	1860.7
57.5°	506.5	536.9	591.0	709.1	864.5	1033.3	1185.3	1347.4	1448.7	1506.1	1539.7
60°	385.0	408.6	466.0	557.2	699.0	844.2	972.5	1094.1	1175.2	1222.4	1256.2
62.5°	290.4	317.5	357.9	435.6	543.6	661.9	769.9	861.1	928.6	959.0	982.7
65°	199.2	219.5	249.9	310.6	401.8	486.2	570.7	638.2	682.2	715.9	729.4
67.5°	148.6	162.1	179.0	226.3	290.4	357.9	415.3	462.6	510.0	523.4	547.1
70°	111.5	121.6	138.4	172.2	209.3	256.6	304.0	330.9	364.7	388.3	395.2
72.5°	70.9	74.2	91.2	111.5	141.8	172.2	202.6	226.3	246.6	260.1	266.7
75°	40.6	60.7	60.7	81.0	101.3	114.8	135.1	151.9	162.1	172.2	172.2
77.5°	27.0	37.1	40.6	50.6	60.7	77.7	94.5	104.7	114.8	118.1	118.1
80°	23.6	27.0	27.0	37.1	43.9	57.4	67.5	70.9	77.7	81.0	87.8
82.5°	10.1	13.5	16.8	27.0	30.4	30.4	40.6	43.9	50.6	54.1	54.1
85°	3.3	6.8	6.8	10.1	16.8	20.3	23.6	27.0	30.4	30.4	33.8
87.5°	3.3	3.3	0.0	3.3	6.8	6.8	13.5	13.5	13.5	20.3	20.3
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: P248872

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6	6915.6
2.5°	6854.9	6858.2	6844.8	6841.4	6834.6	6837.9	6844.8
5°	6730.0	6733.3	6719.8	6706.3	6706.3	6702.8	6706.3
7.5°	6611.7	6615.1	6594.9	6588.0	6574.6	6578.0	6578.0
10°	6493.5	6493.5	6463.2	6459.8	6449.6	6446.3	6446.3
12.5°	6378.7	6368.6	6344.9	6331.5	6338.3	6318.0	6318.0
15°	6277.4	6260.6	6230.1	6220.0	6203.2	6196.4	6196.4
17.5°	6172.7	6159.3	6132.3	6112.0	6091.7	6088.4	6091.7
20°	6071.4	6057.9	6024.2	6010.7	5993.9	5993.9	5987.0
22.5°	5970.1	5956.6	5926.3	5916.2	5892.5	5892.5	5895.9
25°	5865.4	5855.3	5821.5	5814.8	5811.5	5797.9	5804.7
27.5°	5723.7	5716.8	5689.9	5679.7	5666.3	5662.9	5669.6
30°	5463.6	5453.5	5433.3	5423.2	5399.5	5402.9	5409.5
32.5°	5139.5	5126.0	5098.9	5088.7	5068.6	5061.8	5065.1
35°	4734.3	4724.2	4700.5	4700.5	4680.2	4673.4	4680.2
37.5°	4322.3	4332.4	4322.3	4332.4	4322.3	4318.9	4322.3
40°	3934.0	3971.1	3977.8	4015.0	4001.6	4021.7	4018.4
42.5°	3562.5	3623.2	3647.0	3677.3	3670.6	3684.1	3694.2
45°	3187.6	3238.4	3262.0	3282.3	3285.6	3292.4	3295.8
47.5°	2833.1	2873.6	2877.0	2900.6	2897.3	2897.3	2907.4
50°	2502.3	2529.2	2535.9	2552.8	2539.4	2532.6	2535.9
52.5°	2194.9	2221.9	2215.1	2221.9	2205.1	2198.3	2201.6
55°	1880.8	1894.3	1894.3	1894.3	1874.2	1874.2	1874.2
57.5°	1560.0	1563.5	1556.7	1560.0	1556.7	1536.4	1533.1
60°	1266.3	1266.3	1262.9	1266.3	1256.2	1246.1	1246.1
62.5°	989.3	996.1	1009.6	996.1	989.3	996.1	986.0
65°	739.6	753.1	749.6	756.4	753.1	753.1	746.2
67.5°	557.2	560.6	563.9	567.4	567.4	567.4	567.4
70°	408.6	418.8	415.3	415.3	415.3	415.3	435.6
72.5°	273.5	287.0	283.7	290.4	290.4	297.2	290.4
75°	185.7	199.2	192.5	202.6	199.2	192.5	209.3
77.5°	125.0	131.8	135.1	138.4	135.1	131.8	135.1
80°	87.8	94.5	91.2	94.5	94.5	94.5	98.0
82.5°	54.1	64.2	60.7	64.2	60.7	64.2	64.2
85°	37.1	40.6	33.8	40.6	37.1	37.1	43.9
87.5°	23.6	20.3	20.3	23.6	20.3	23.6	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)