

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: P249052

Luminaire Tested: **LD8B150D010 ER8B150940 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249052  
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 ER8B150940 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14323.0 lumens  
Efficiency: N/A  
Efficacy: 90.4 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

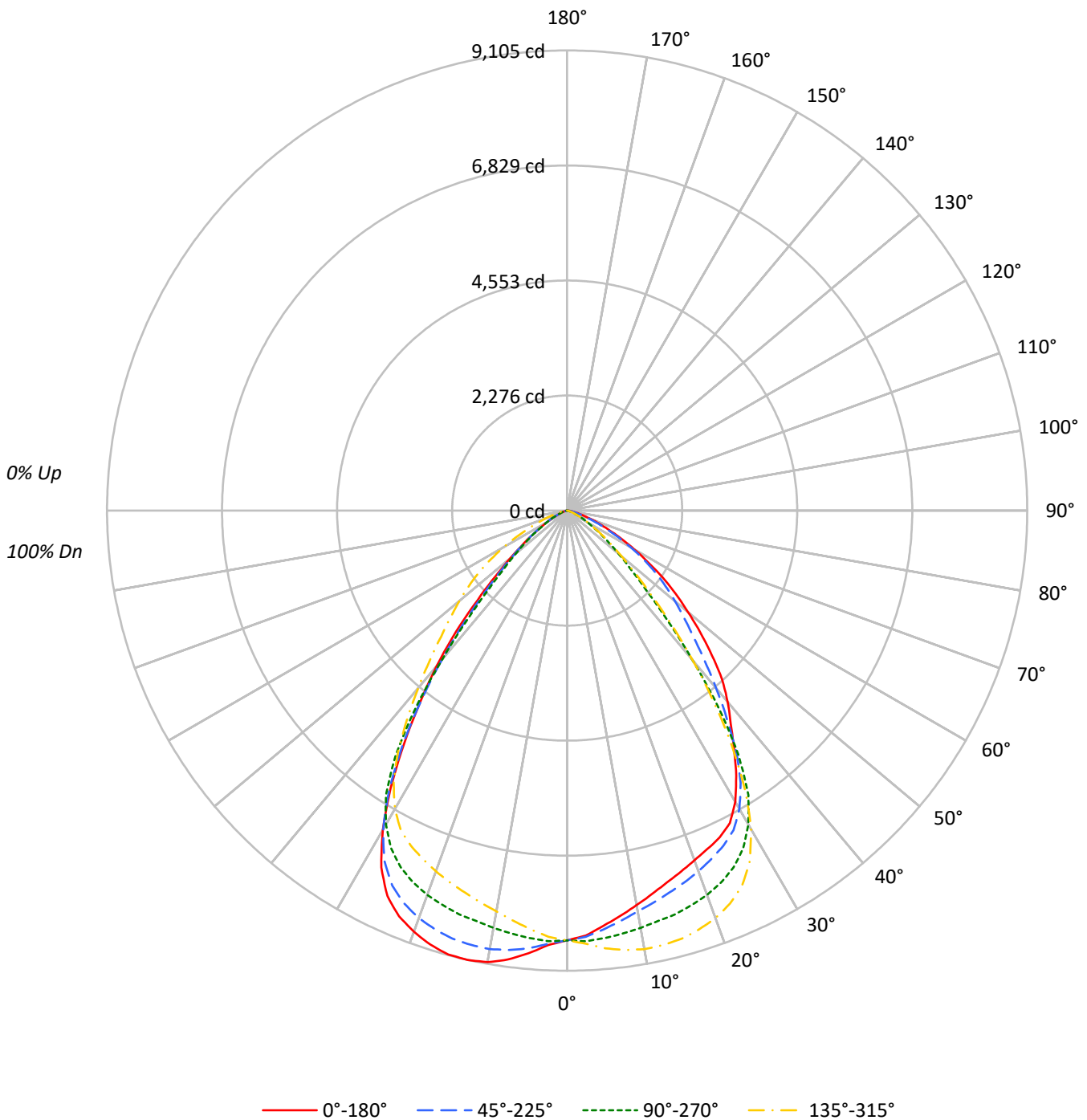
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	262204	262204	262204	262204
5°	255238	262819	272204	262819
10°	248179	262476	284059	262476
15°	243220	264035	290276	264035
20°	241567	265545	291023	265545
25°	242833	265010	286347	265010
30°	236831	255311	259897	255311
35°	216627	222718	211312	222718
40°	198887	154929	161785	154929
45°	176717	94514	109359	94514
50°	149579	63137	70112	63137
55°	123888	43079	45536	43079
60°	94489	28678	28931	28678
65°	66945	17869	16359	17869
70°	48289	11973	10864	11973
75°	30667	5945	4944	5945
80°	21398	4439	3676	4439
85°	19106	0	1451	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	809.3	5.7
10°-20°	2343.7	16.4
20°-30°	3548.8	24.8
30°-40°	3556.8	24.8
40°-50°	2233.5	15.6
50°-60°	1190.2	8.3
60°-70°	489.4	3.4
70°-80°	129.3	0.9
80°-90°	21.9	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°	6701.9	46.8
0°-40°	10258.7	71.6
0°-60°	13682.4	95.5
0°-90°	14323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14323.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	8503	8503	8503	8503	8503	
5°	8246	8491	8794	8491	8246	778
15°	7619	8271	9093	8271	7619	2155
25°	7137	7789	8416	7789	7137	3273
35°	5755	5916	5613	5916	5755	3605
45°	4052	2167	2508	2167	4052	3117
55°	2304	801	847	801	2304	2054
65°	918	245	224	245	918	952
75°	257	50	42	50	257	292
85°	54	0	4	0	54	59
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°	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1
2.5°	8416.0	8407.6	8403.5	8411.9	8416.0	8432.5	8428.4	8436.6	8436.6	8440.9	8449.1
5°	8245.7	8241.5	8245.7	8245.7	8262.3	8278.9	8274.8	8287.3	8295.5	8316.3	8324.5
7.5°	8088.0	8088.0	8083.7	8100.3	8108.7	8133.6	8129.4	8150.2	8162.7	8183.4	8212.4
10°	7926.0	7926.0	7930.1	7942.6	7946.8	7984.1	7984.1	8013.2	8029.7	8050.6	8088.0
12.5°	7768.3	7768.3	7793.2	7784.8	7801.4	7830.5	7842.9	7872.0	7896.9	7938.5	7975.9
15°	7618.7	7618.7	7627.1	7647.8	7660.3	7697.7	7718.4	7751.7	7780.7	7822.3	7876.3
17.5°	7490.0	7485.9	7490.0	7515.0	7539.9	7573.1	7589.7	7631.2	7660.3	7714.3	7764.2
20°	7361.4	7369.7	7369.7	7390.4	7407.0	7448.5	7465.1	7510.9	7544.0	7593.8	7652.0
22.5°	7249.2	7245.1	7245.1	7274.2	7286.7	7323.9	7340.5	7382.0	7419.5	7461.0	7515.0
25°	7137.1	7128.8	7145.5	7149.6	7157.8	7199.3	7211.8	7240.9	7278.3	7315.7	7369.7
27.5°	6971.0	6962.8	6966.9	6983.5	6996.0	7029.1	7037.5	7066.6	7095.6	7128.8	7174.6
30°	6651.3	6643.1	6639.0	6668.0	6680.5	6705.3	6717.8	6767.7	6775.9	6813.3	6846.4
32.5°	6227.8	6223.7	6232.1	6256.9	6269.3	6302.7	6319.2	6348.3	6369.0	6389.8	6423.0
35°	5754.6	5746.2	5754.6	5779.5	5779.5	5808.6	5821.1	5833.4	5829.3	5833.4	5825.2
37.5°	5314.5	5310.3	5314.5	5326.8	5314.5	5326.8	5314.5	5289.6	5244.0	5194.0	5144.1
40°	4940.8	4944.9	4920.1	4936.7	4890.9	4882.7	4837.0	4774.7	4683.4	4583.8	4442.6
42.5°	4542.3	4529.8	4513.2	4521.4	4484.1	4454.9	4380.2	4301.5	4185.1	4019.1	3848.8
45°	4052.3	4048.2	4039.8	4035.7	4010.8	3981.7	3919.3	3828.1	3699.4	3529.2	3325.6
47.5°	3574.8	3562.3	3562.3	3566.4	3537.4	3533.3	3483.4	3404.6	3292.5	3126.4	2914.6
50°	3118.0	3113.9	3122.3	3138.9	3118.0	3109.8	3076.6	3022.6	2923.0	2781.8	2582.4
52.5°	2707.0	2702.9	2711.3	2731.9	2723.6	2731.9	2698.8	2657.3	2590.8	2453.7	2279.4
55°	2304.4	2304.4	2304.4	2329.1	2329.1	2329.1	2312.6	2287.8	2225.4	2125.8	1963.9
57.5°	1885.0	1889.1	1914.0	1918.1	1914.0	1922.4	1918.1	1893.2	1851.8	1781.3	1656.7
60°	1532.1	1532.1	1544.6	1557.0	1552.8	1557.0	1557.0	1544.6	1503.0	1444.9	1345.3
62.5°	1212.3	1224.8	1216.4	1224.8	1241.4	1224.8	1216.4	1208.2	1179.2	1141.8	1058.7
65°	917.5	925.9	925.9	930.0	921.6	925.9	909.3	896.9	880.3	838.8	784.8
67.5°	697.6	697.6	697.6	697.6	693.3	689.2	685.1	672.6	643.6	627.0	568.7
70°	535.6	510.6	510.6	510.6	510.6	514.9	502.4	485.9	477.5	448.4	406.9
72.5°	357.0	365.4	357.0	357.0	348.8	352.9	336.3	327.9	319.7	303.2	278.2
75°	257.4	236.7	244.9	249.2	236.7	244.9	228.3	211.7	211.7	199.3	186.8
77.5°	166.1	162.0	166.1	170.2	166.1	162.0	153.6	145.3	145.3	141.2	128.7
80°	120.5	116.2	116.2	116.2	112.1	116.2	108.0	108.0	99.6	95.5	87.2
82.5°	79.0	79.0	74.7	79.0	74.7	79.0	66.5	66.5	66.5	62.2	54.0
85°	54.0	45.6	45.6	49.9	41.5	49.9	45.6	41.5	37.4	37.4	33.2
87.5°	25.0	29.1	25.0	29.1	25.0	25.0	29.1	25.0	25.0	16.6	16.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1
2.5°	8461.6	8465.7	8465.7	8482.4	8490.6	8494.7	8494.7	8528.1	8515.6	8524.0	8532.2
5°	8341.3	8366.1	8374.4	8374.4	8420.1	8436.6	8453.2	8490.6	8494.7	8519.7	8548.7
7.5°	8224.9	8253.9	8270.7	8307.9	8337.0	8366.1	8416.0	8440.9	8465.7	8499.0	8536.3
10°	8112.8	8146.1	8179.3	8208.3	8253.9	8291.4	8324.5	8382.6	8411.9	8457.5	8507.2
12.5°	8004.9	8050.6	8079.6	8129.4	8179.3	8212.4	8262.3	8316.3	8362.0	8407.6	8465.7
15°	7909.4	7963.4	7996.6	8050.6	8104.6	8150.2	8204.2	8270.7	8303.8	8357.8	8411.9
17.5°	7805.5	7863.8	7905.3	7955.0	8021.5	8071.3	8117.1	8183.4	8224.9	8283.0	8345.4
20°	7697.7	7755.8	7805.5	7855.4	7921.9	7971.6	8025.6	8092.1	8137.7	8195.8	8245.7
22.5°	7569.0	7623.0	7676.8	7734.9	7801.4	7842.9	7905.3	7963.4	8013.2	8067.2	8117.1
25°	7402.9	7469.4	7510.9	7564.7	7618.7	7664.4	7730.8	7788.9	7830.5	7880.4	7926.0
27.5°	7207.7	7257.6	7290.8	7336.4	7390.4	7431.9	7481.7	7539.9	7581.5	7627.1	7660.3
30°	6875.5	6921.3	6950.3	6983.5	7037.5	7074.9	7116.5	7170.3	7199.3	7232.7	7261.7
32.5°	6439.5	6477.0	6493.5	6518.5	6555.9	6593.2	6626.5	6672.1	6684.6	6705.3	6705.3
35°	5808.6	5816.8	5812.7	5821.1	5837.6	5858.3	5887.4	5916.4	5933.0	5933.0	5920.7
37.5°	5069.5	5019.7	4965.7	4924.2	4911.7	4903.4	4920.1	4932.4	4949.2	4957.4	4936.7
40°	4301.5	4189.3	4068.9	3960.9	3886.2	3853.0	3840.6	3848.8	3848.8	3877.8	3877.8
42.5°	3641.3	3466.8	3288.4	3126.4	3018.4	2935.5	2898.1	2898.1	2902.2	2923.0	2935.5
45°	3093.2	2873.1	2665.5	2487.1	2337.5	2229.5	2179.8	2167.3	2163.2	2171.4	2200.5
47.5°	2673.8	2445.5	2229.5	2009.6	1851.8	1743.8	1698.2	1681.4	1664.9	1681.4	1685.7
50°	2345.9	2109.2	1880.9	1660.8	1494.7	1399.1	1341.0	1316.1	1312.0	1312.0	1320.3
52.5°	2046.8	1826.9	1598.6	1374.3	1199.9	1108.6	1054.6	1042.1	1025.5	1042.1	1042.1
55°	1764.5	1544.6	1320.3	1108.6	963.2	867.8	817.9	801.3	793.0	805.4	805.4
57.5°	1457.4	1270.4	1063.0	871.9	726.7	660.2	622.7	602.1	597.8	606.2	597.8
60°	1195.8	1038.0	859.4	685.1	573.0	502.4	473.4	465.0	456.6	465.0	465.0
62.5°	946.6	813.8	668.4	535.6	440.1	390.3	357.0	357.0	352.9	352.9	357.0
65°	701.7	597.8	494.1	382.0	307.3	269.8	244.9	244.9	240.8	244.9	240.8
67.5°	510.6	440.1	357.0	278.2	220.1	199.3	182.7	170.2	178.6	170.2	166.1
70°	373.7	315.5	257.4	211.7	170.2	149.5	137.1	132.8	124.6	124.6	124.6
72.5°	249.2	211.7	174.3	137.1	112.1	91.3	87.2	79.0	70.6	74.7	83.1
75°	166.1	141.2	124.6	99.6	74.7	74.7	49.9	49.9	41.5	49.9	37.4
77.5°	116.2	95.5	74.7	62.2	49.9	45.6	33.2	33.2	29.1	29.1	29.1
80°	83.1	70.6	54.0	45.6	33.2	33.2	29.1	25.0	20.7	20.7	25.0
82.5°	49.9	37.4	37.4	33.2	20.7	16.6	12.5	16.6	8.4	8.4	8.4
85°	29.1	25.0	20.7	12.5	8.4	8.4	4.1	0.0	4.1	4.1	0.0
87.5°	16.6	8.4	8.4	4.1	0.0	4.1	4.1	0.0	0.0	0.0	8.4
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1
2.5°	8553.0	8548.7	8557.1	8557.1	8582.1	8577.8	8590.3	8590.3	8582.1	8586.2	8602.7
5°	8582.1	8594.5	8619.3	8640.2	8677.4	8694.2	8714.9	8735.7	8739.8	8752.3	8764.8
7.5°	8582.1	8623.6	8652.6	8689.9	8739.8	8768.9	8814.5	8851.9	8868.5	8889.2	8914.1
10°	8565.3	8606.8	8660.8	8702.4	8764.8	8810.4	8856.0	8914.1	8939.1	8972.2	9005.5
12.5°	8532.2	8577.8	8635.9	8689.9	8760.5	8802.0	8860.1	8914.1	8951.5	8997.2	9034.6
15°	8482.4	8536.3	8590.3	8644.3	8719.0	8768.9	8822.9	8885.1	8922.5	8972.2	9005.5
17.5°	8403.5	8461.6	8511.5	8561.2	8631.8	8689.9	8739.8	8797.9	8835.3	8876.9	8922.5
20°	8307.9	8362.0	8416.0	8457.5	8528.1	8577.8	8631.8	8685.8	8714.9	8723.2	8793.8
22.5°	8187.6	8224.9	8266.4	8332.9	8374.4	8420.1	8470.0	8519.7	8548.7	8594.5	8619.3
25°	7988.2	8025.6	8071.3	8100.3	8150.2	8187.6	8237.4	8291.4	8307.9	8341.3	8366.1
27.5°	7710.2	7730.8	7751.7	7776.5	7805.5	7826.4	7855.4	7880.4	7896.9	7913.5	7930.1
30°	7269.9	7269.9	7269.9	7253.3	7265.8	7278.3	7282.4	7278.3	7278.3	7274.2	7274.2
32.5°	6688.7	6655.6	6618.1	6585.0	6572.5	6555.9	6547.5	6535.1	6514.4	6501.9	6506.0
35°	5904.0	5829.3	5783.6	5742.1	5709.0	5684.0	5671.5	5659.1	5655.0	5638.4	5621.6
37.5°	4924.2	4870.2	4837.0	4812.1	4783.0	4758.1	4762.2	4766.5	4778.8	4770.6	4774.7
40°	3886.2	3873.7	3886.2	3857.1	3848.8	3857.1	3877.8	3907.0	3923.6	3940.2	3969.2
42.5°	2956.2	2976.8	3006.1	3006.1	3018.4	3035.1	3059.9	3105.7	3130.5	3159.5	3192.9
45°	2225.4	2250.4	2287.8	2300.1	2308.5	2329.1	2358.4	2395.6	2412.2	2437.2	2466.2
47.5°	1714.8	1731.3	1752.0	1772.9	1793.6	1801.9	1831.0	1831.0	1851.8	1868.4	1876.6
50°	1336.9	1353.5	1370.1	1382.6	1390.9	1403.4	1411.6	1424.1	1428.2	1436.6	1440.7
52.5°	1046.2	1067.1	1067.1	1075.3	1087.8	1100.2	1096.1	1100.2	1104.3	1104.3	1116.8
55°	817.9	817.9	830.4	830.4	838.8	834.5	838.8	838.8	838.8	838.8	842.9
57.5°	610.3	614.5	627.0	618.6	614.5	622.7	614.5	622.7	618.6	627.0	614.5
60°	469.1	469.1	473.4	473.4	477.5	477.5	477.5	473.4	473.4	469.1	469.1
62.5°	352.9	357.0	361.3	357.0	357.0	357.0	352.9	352.9	348.8	344.5	344.5
65°	236.7	232.6	240.8	232.6	236.7	236.7	232.6	236.7	224.2	228.3	224.2
67.5°	170.2	166.1	162.0	166.1	162.0	157.7	157.7	162.0	166.1	153.6	153.6
70°	112.1	116.2	112.1	116.2	120.5	120.5	116.2	112.1	116.2	108.0	112.1
72.5°	70.6	70.6	70.6	70.6	70.6	74.7	74.7	74.7	66.5	66.5	62.2
75°	33.2	45.6	37.4	33.2	45.6	45.6	41.5	41.5	37.4	37.4	37.4
77.5°	33.2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	20.7	25.0	20.7
80°	16.6	16.6	16.6	12.5	16.6	16.6	20.7	16.6	16.6	12.5	20.7
82.5°	8.4	8.4	8.4	0.0	4.1	8.4	8.4	4.1	8.4	8.4	4.1
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: P249052

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1
2.5°	8598.6	8594.5	8598.6	8602.7	8598.6	8594.5	8598.6	8602.7	8586.2	8582.1	8590.3
5°	8781.3	8781.3	8789.5	8793.8	8789.5	8781.3	8781.3	8764.8	8752.3	8739.8	8735.7
7.5°	8939.1	8947.4	8955.6	8959.7	8955.6	8947.4	8939.1	8914.1	8889.2	8868.5	8851.9
10°	9034.6	9047.1	9063.7	9071.9	9063.7	9047.1	9034.6	9005.5	8972.2	8939.1	8914.1
12.5°	9076.1	9088.6	9109.3	9105.2	9109.3	9088.6	9076.1	9034.6	8997.2	8951.5	8914.1
15°	9047.1	9063.7	9084.3	9092.7	9084.3	9063.7	9047.1	9005.5	8972.2	8922.5	8885.1
17.5°	8955.6	8980.6	8993.1	9005.5	8993.1	8980.6	8955.6	8922.5	8876.9	8835.3	8797.9
20°	8831.1	8847.8	8864.4	8868.5	8864.4	8847.8	8831.1	8793.8	8723.2	8714.9	8685.8
22.5°	8652.6	8665.1	8702.4	8689.9	8702.4	8665.1	8652.6	8619.3	8594.5	8548.7	8519.7
25°	8395.1	8407.6	8411.9	8416.0	8411.9	8407.6	8395.1	8366.1	8341.3	8307.9	8291.4
27.5°	7950.9	7950.9	7959.1	7963.4	7959.1	7950.9	7950.9	7930.1	7913.5	7896.9	7880.4
30°	7278.3	7278.3	7278.3	7299.1	7278.3	7278.3	7278.3	7274.2	7274.2	7278.3	7278.3
32.5°	6501.9	6493.5	6485.3	6493.5	6485.3	6493.5	6501.9	6506.0	6501.9	6514.4	6535.1
35°	5621.6	5617.5	5630.0	5613.4	5630.0	5617.5	5621.6	5621.6	5638.4	5655.0	5659.1
37.5°	4778.8	4770.6	4787.1	4770.6	4787.1	4770.6	4778.8	4774.7	4770.6	4778.8	4766.5
40°	3977.6	3985.8	3985.8	4019.1	3985.8	3985.8	3977.6	3969.2	3940.2	3923.6	3907.0
42.5°	3209.4	3234.4	3226.0	3251.0	3226.0	3234.4	3209.4	3192.9	3159.5	3130.5	3105.7
45°	2482.8	2499.5	2499.5	2507.7	2499.5	2499.5	2482.8	2466.2	2437.2	2412.2	2395.6
47.5°	1905.7	1905.7	1905.7	1909.9	1905.7	1905.7	1905.7	1876.6	1868.4	1851.8	1831.0
50°	1449.0	1453.1	1457.4	1461.5	1457.4	1453.1	1449.0	1440.7	1436.6	1428.2	1424.1
52.5°	1112.7	1116.8	1108.6	1116.8	1108.6	1116.8	1112.7	1116.8	1104.3	1104.3	1100.2
55°	842.9	838.8	842.9	847.0	842.9	838.8	842.9	842.9	838.8	838.8	838.8
57.5°	618.6	610.3	610.3	610.3	610.3	610.3	618.6	614.5	627.0	618.6	622.7
60°	460.9	465.0	465.0	469.1	465.0	465.0	460.9	469.1	469.1	473.4	473.4
62.5°	340.4	352.9	344.5	352.9	344.5	352.9	340.4	344.5	344.5	348.8	352.9
65°	220.1	220.1	220.1	224.2	220.1	220.1	220.1	224.2	228.3	224.2	236.7
67.5°	149.5	153.6	162.0	157.7	162.0	153.6	149.5	153.6	153.6	166.1	162.0
70°	120.5	108.0	108.0	120.5	108.0	108.0	120.5	112.1	108.0	116.2	112.1
72.5°	70.6	62.2	70.6	70.6	70.6	62.2	70.6	62.2	66.5	66.5	74.7
75°	37.4	33.2	29.1	41.5	29.1	33.2	37.4	37.4	37.4	37.4	41.5
77.5°	25.0	20.7	29.1	29.1	29.1	20.7	25.0	20.7	25.0	20.7	25.0
80°	12.5	16.6	12.5	20.7	12.5	16.6	12.5	20.7	12.5	16.6	16.6
82.5°	4.1	8.4	8.4	8.4	8.4	8.4	4.1	4.1	8.4	8.4	4.1
85°	0.0	8.4	4.1	4.1	4.1	8.4	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	0.0	0.0	4.1	0.0	0.0	4.1	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: P249052

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1
2.5°	8590.3	8577.8	8582.1	8557.1	8557.1	8548.7	8553.0	8532.2	8524.0	8515.6	8528.1
5°	8714.9	8694.2	8677.4	8640.2	8619.3	8594.5	8582.1	8548.7	8519.7	8494.7	8490.6
7.5°	8814.5	8768.9	8739.8	8689.9	8652.6	8623.6	8582.1	8536.3	8499.0	8465.7	8440.9
10°	8856.0	8810.4	8764.8	8702.4	8660.8	8606.8	8565.3	8507.2	8457.5	8411.9	8382.6
12.5°	8860.1	8802.0	8760.5	8689.9	8635.9	8577.8	8532.2	8465.7	8407.6	8362.0	8316.3
15°	8822.9	8768.9	8719.0	8644.3	8590.3	8536.3	8482.4	8411.9	8357.8	8303.8	8270.7
17.5°	8739.8	8689.9	8631.8	8561.2	8511.5	8461.6	8403.5	8345.4	8283.0	8224.9	8183.4
20°	8631.8	8577.8	8528.1	8457.5	8416.0	8362.0	8307.9	8245.7	8195.8	8137.7	8092.1
22.5°	8470.0	8420.1	8374.4	8332.9	8266.4	8224.9	8187.6	8117.1	8067.2	8013.2	7963.4
25°	8237.4	8187.6	8150.2	8100.3	8071.3	8025.6	7988.2	7926.0	7880.4	7830.5	7788.9
27.5°	7855.4	7826.4	7805.5	7776.5	7751.7	7730.8	7710.2	7660.3	7627.1	7581.5	7539.9
30°	7282.4	7278.3	7265.8	7253.3	7269.9	7269.9	7269.9	7261.7	7232.7	7199.3	7170.3
32.5°	6547.5	6555.9	6572.5	6585.0	6618.1	6655.6	6688.7	6705.3	6705.3	6684.6	6672.1
35°	5671.5	5684.0	5709.0	5742.1	5783.6	5829.3	5904.0	5920.7	5933.0	5933.0	5916.4
37.5°	4762.2	4758.1	4783.0	4812.1	4837.0	4870.2	4924.2	4936.7	4957.4	4949.2	4932.4
40°	3877.8	3857.1	3848.8	3857.1	3886.2	3873.7	3886.2	3877.8	3877.8	3848.8	3848.8
42.5°	3059.9	3035.1	3018.4	3006.1	3006.1	2976.8	2956.2	2935.5	2923.0	2902.2	2898.1
45°	2358.4	2329.1	2308.5	2300.1	2287.8	2250.4	2225.4	2200.5	2171.4	2163.2	2167.3
47.5°	1831.0	1801.9	1793.6	1772.9	1752.0	1731.3	1714.8	1685.7	1681.4	1664.9	1681.4
50°	1411.6	1403.4	1390.9	1382.6	1370.1	1353.5	1336.9	1320.3	1312.0	1312.0	1316.1
52.5°	1096.1	1100.2	1087.8	1075.3	1067.1	1067.1	1046.2	1042.1	1042.1	1025.5	1042.1
55°	838.8	834.5	838.8	830.4	830.4	817.9	817.9	805.4	805.4	793.0	801.3
57.5°	614.5	622.7	614.5	618.6	627.0	614.5	610.3	597.8	606.2	597.8	602.1
60°	477.5	477.5	477.5	473.4	473.4	469.1	469.1	465.0	465.0	456.6	465.0
62.5°	352.9	357.0	357.0	357.0	361.3	357.0	352.9	357.0	352.9	352.9	357.0
65°	232.6	236.7	236.7	232.6	240.8	232.6	236.7	240.8	244.9	240.8	244.9
67.5°	157.7	157.7	162.0	166.1	162.0	166.1	170.2	166.1	170.2	178.6	170.2
70°	116.2	120.5	120.5	116.2	112.1	116.2	112.1	124.6	124.6	124.6	132.8
72.5°	74.7	74.7	70.6	70.6	70.6	70.6	70.6	83.1	74.7	70.6	79.0
75°	41.5	45.6	45.6	33.2	37.4	45.6	33.2	37.4	49.9	41.5	49.9
77.5°	25.0	25.0	25.0	25.0	25.0	25.0	33.2	29.1	29.1	29.1	33.2
80°	20.7	16.6	16.6	12.5	16.6	16.6	16.6	25.0	20.7	20.7	25.0
82.5°	8.4	8.4	4.1	0.0	8.4	8.4	8.4	8.4	8.4	8.4	16.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	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: P249052

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1
2.5°	8494.7	8494.7	8490.6	8482.4	8465.7	8465.7	8461.6	8449.1	8440.9	8436.6	8436.6
5°	8453.2	8436.6	8420.1	8374.4	8374.4	8366.1	8341.3	8324.5	8316.3	8295.5	8287.3
7.5°	8416.0	8366.1	8337.0	8307.9	8270.7	8253.9	8224.9	8212.4	8183.4	8162.7	8150.2
10°	8324.5	8291.4	8253.9	8208.3	8179.3	8146.1	8112.8	8088.0	8050.6	8029.7	8013.2
12.5°	8262.3	8212.4	8179.3	8129.4	8079.6	8050.6	8004.9	7975.9	7938.5	7896.9	7872.0
15°	8204.2	8150.2	8104.6	8050.6	7996.6	7963.4	7909.4	7876.3	7822.3	7780.7	7751.7
17.5°	8117.1	8071.3	8021.5	7955.0	7905.3	7863.8	7805.5	7764.2	7714.3	7660.3	7631.2
20°	8025.6	7971.6	7921.9	7855.4	7805.5	7755.8	7697.7	7652.0	7593.8	7544.0	7510.9
22.5°	7905.3	7842.9	7801.4	7734.9	7676.8	7623.0	7569.0	7515.0	7461.0	7419.5	7382.0
25°	7730.8	7664.4	7618.7	7564.7	7510.9	7469.4	7402.9	7369.7	7315.7	7278.3	7240.9
27.5°	7481.7	7431.9	7390.4	7336.4	7290.8	7257.6	7207.7	7174.6	7128.8	7095.6	7066.6
30°	7116.5	7074.9	7037.5	6983.5	6950.3	6921.3	6875.5	6846.4	6813.3	6775.9	6767.7
32.5°	6626.5	6593.2	6555.9	6518.5	6493.5	6477.0	6439.5	6423.0	6389.8	6369.0	6348.3
35°	5887.4	5858.3	5837.6	5821.1	5812.7	5816.8	5808.6	5825.2	5833.4	5829.3	5833.4
37.5°	4920.1	4903.4	4911.7	4924.2	4965.7	5019.7	5069.5	5144.1	5194.0	5244.0	5289.6
40°	3840.6	3853.0	3886.2	3960.9	4068.9	4189.3	4301.5	4442.6	4583.8	4683.4	4774.7
42.5°	2898.1	2935.5	3018.4	3126.4	3288.4	3466.8	3641.3	3848.8	4019.1	4185.1	4301.5
45°	2179.8	2229.5	2337.5	2487.1	2665.5	2873.1	3093.2	3325.6	3529.2	3699.4	3828.1
47.5°	1698.2	1743.8	1851.8	2009.6	2229.5	2445.5	2673.8	2914.6	3126.4	3292.5	3404.6
50°	1341.0	1399.1	1494.7	1660.8	1880.9	2109.2	2345.9	2582.4	2781.8	2923.0	3022.6
52.5°	1054.6	1108.6	1199.9	1374.3	1598.6	1826.9	2046.8	2279.4	2453.7	2590.8	2657.3
55°	817.9	867.8	963.2	1108.6	1320.3	1544.6	1764.5	1963.9	2125.8	2225.4	2287.8
57.5°	622.7	660.2	726.7	871.9	1063.0	1270.4	1457.4	1656.7	1781.3	1851.8	1893.2
60°	473.4	502.4	573.0	685.1	859.4	1038.0	1195.8	1345.3	1444.9	1503.0	1544.6
62.5°	357.0	390.3	440.1	535.6	668.4	813.8	946.6	1058.7	1141.8	1179.2	1208.2
65°	244.9	269.8	307.3	382.0	494.1	597.8	701.7	784.8	838.8	880.3	896.9
67.5°	182.7	199.3	220.1	278.2	357.0	440.1	510.6	568.7	627.0	643.6	672.6
70°	137.1	149.5	170.2	211.7	257.4	315.5	373.7	406.9	448.4	477.5	485.9
72.5°	87.2	91.3	112.1	137.1	174.3	211.7	249.2	278.2	303.2	319.7	327.9
75°	49.9	74.7	74.7	99.6	124.6	141.2	166.1	186.8	199.3	211.7	211.7
77.5°	33.2	45.6	49.9	62.2	74.7	95.5	116.2	128.7	141.2	145.3	145.3
80°	29.1	33.2	33.2	45.6	54.0	70.6	83.1	87.2	95.5	99.6	108.0
82.5°	12.5	16.6	20.7	33.2	37.4	37.4	49.9	54.0	62.2	66.5	66.5
85°	4.1	8.4	8.4	12.5	20.7	25.0	29.1	33.2	37.4	37.4	41.5
87.5°	4.1	4.1	0.0	4.1	8.4	8.4	16.6	16.6	16.6	25.0	25.0
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: P249052

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1	8503.1
2.5°	8428.4	8432.5	8416.0	8411.9	8403.5	8407.6	8416.0
5°	8274.8	8278.9	8262.3	8245.7	8245.7	8241.5	8245.7
7.5°	8129.4	8133.6	8108.7	8100.3	8083.7	8088.0	8088.0
10°	7984.1	7984.1	7946.8	7942.6	7930.1	7926.0	7926.0
12.5°	7842.9	7830.5	7801.4	7784.8	7793.2	7768.3	7768.3
15°	7718.4	7697.7	7660.3	7647.8	7627.1	7618.7	7618.7
17.5°	7589.7	7573.1	7539.9	7515.0	7490.0	7485.9	7490.0
20°	7465.1	7448.5	7407.0	7390.4	7369.7	7369.7	7361.4
22.5°	7340.5	7323.9	7286.7	7274.2	7245.1	7245.1	7249.2
25°	7211.8	7199.3	7157.8	7149.6	7145.5	7128.8	7137.1
27.5°	7037.5	7029.1	6996.0	6983.5	6966.9	6962.8	6971.0
30°	6717.8	6705.3	6680.5	6668.0	6639.0	6643.1	6651.3
32.5°	6319.2	6302.7	6269.3	6256.9	6232.1	6223.7	6227.8
35°	5821.1	5808.6	5779.5	5779.5	5754.6	5746.2	5754.6
37.5°	5314.5	5326.8	5314.5	5326.8	5314.5	5310.3	5314.5
40°	4837.0	4882.7	4890.9	4936.7	4920.1	4944.9	4940.8
42.5°	4380.2	4454.9	4484.1	4521.4	4513.2	4529.8	4542.3
45°	3919.3	3981.7	4010.8	4035.7	4039.8	4048.2	4052.3
47.5°	3483.4	3533.3	3537.4	3566.4	3562.3	3562.3	3574.8
50°	3076.6	3109.8	3118.0	3138.9	3122.3	3113.9	3118.0
52.5°	2698.8	2731.9	2723.6	2731.9	2711.3	2702.9	2707.0
55°	2312.6	2329.1	2329.1	2329.1	2304.4	2304.4	2304.4
57.5°	1918.1	1922.4	1914.0	1918.1	1914.0	1889.1	1885.0
60°	1557.0	1557.0	1552.8	1557.0	1544.6	1532.1	1532.1
62.5°	1216.4	1224.8	1241.4	1224.8	1216.4	1224.8	1212.3
65°	909.3	925.9	921.6	930.0	925.9	925.9	917.5
67.5°	685.1	689.2	693.3	697.6	697.6	697.6	697.6
70°	502.4	514.9	510.6	510.6	510.6	510.6	535.6
72.5°	336.3	352.9	348.8	357.0	357.0	365.4	357.0
75°	228.3	244.9	236.7	249.2	244.9	236.7	257.4
77.5°	153.6	162.0	166.1	170.2	166.1	162.0	166.1
80°	108.0	116.2	112.1	116.2	116.2	116.2	120.5
82.5°	66.5	79.0	74.7	79.0	74.7	79.0	79.0
85°	45.6	49.9	41.5	49.9	45.6	45.6	54.0
87.5°	29.1	25.0	25.0	29.1	25.0	29.1	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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