

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: P249043

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249043  
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: LSR8B150D010 EC8B150935 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13714.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

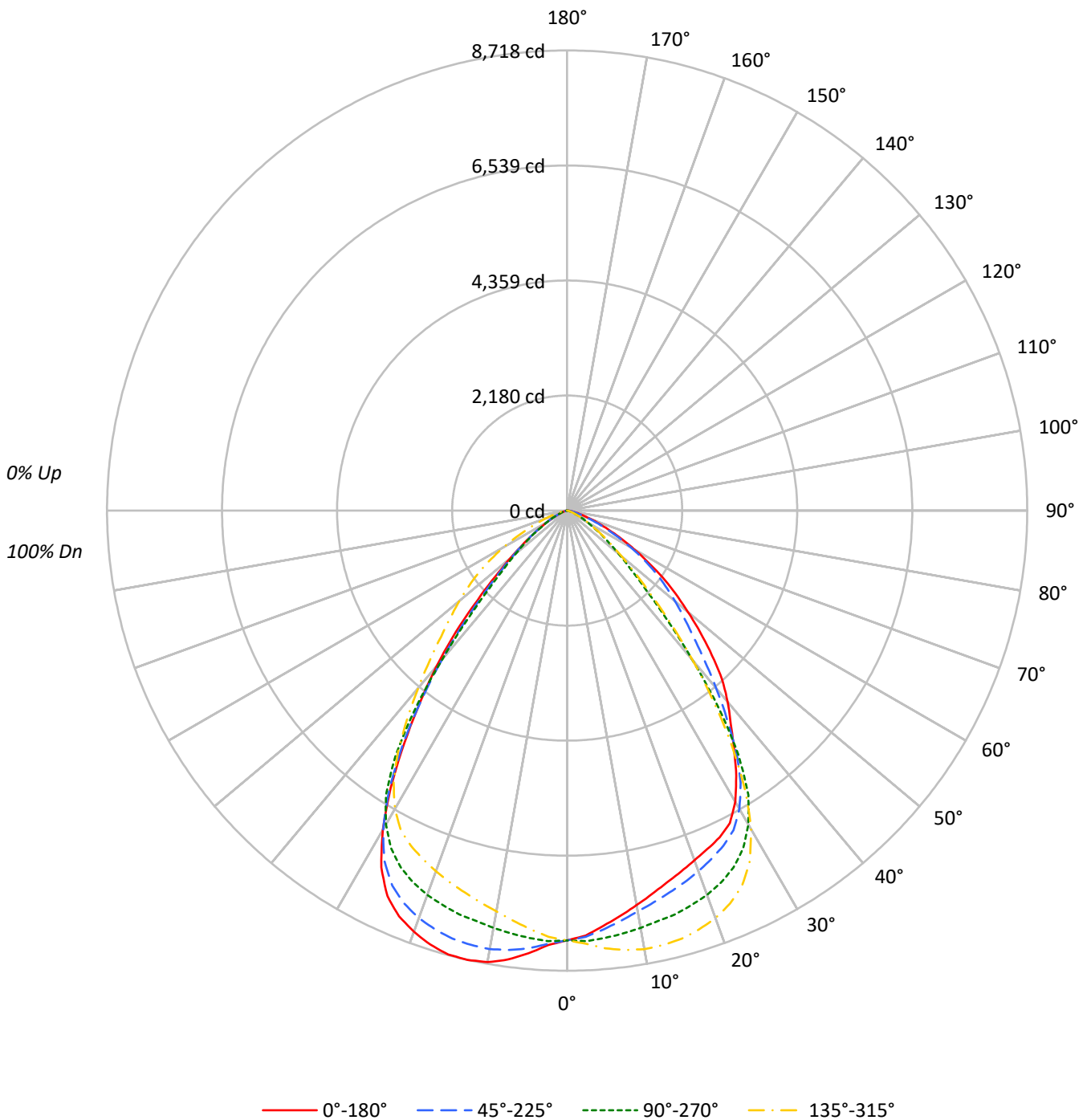
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	251057	251057	251057	251057
5°	244386	251644	260630	251644
10°	237627	251316	271979	251316
15°	232880	252807	277934	252807
20°	231296	254253	278648	254253
25°	232511	253745	274170	253745
30°	226761	244454	248848	244454
35°	207416	213251	202330	213251
40°	190429	148340	154905	148340
45°	169203	90498	104710	90498
50°	143218	60451	67133	60451
55°	118619	41251	43595	41251
60°	90468	27457	27703	27457
65°	64100	17110	15666	17110
70°	46234	11459	10404	11459
75°	29357	5695	4742	5695
80°	20493	4244	3516	4244
85°	18292	0	1380	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	774.9	5.7
10°-20°	2244.0	16.4
20°-30°	3397.9	24.8
30°-40°	3405.6	24.8
40°-50°	2138.5	15.6
50°-60°	1139.6	8.3
60°-70°	468.6	3.4
70°-80°	123.8	0.9
80°-90°	20.9	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°	6416.9	46.8
0°-40°	9822.5	71.6
0°-60°	13100.6	95.5
0°-90°	13714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13714.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	8142	8142	8142	8142	8142	
5°	7895	8130	8420	8130	7895	745
15°	7295	7919	8706	7919	7295	2063
25°	6834	7458	8058	7458	6834	3134
35°	5510	5665	5375	5665	5510	3452
45°	3880	2075	2401	2075	3880	2984
55°	2206	767	811	767	2206	1967
65°	878	234	215	234	878	911
75°	246	48	40	48	246	279
85°	52	0	4	0	52	57
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°	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6
2.5°	8058.1	8050.1	8046.2	8054.2	8058.1	8074.0	8070.1	8077.9	8077.9	8082.0	8089.9
5°	7895.1	7891.1	7895.1	7895.1	7911.0	7926.9	7923.0	7934.9	7942.8	7962.7	7970.6
7.5°	7744.1	7744.1	7740.0	7755.9	7763.9	7787.8	7783.7	7803.7	7815.6	7835.4	7863.2
10°	7589.0	7589.0	7592.9	7604.9	7609.0	7644.6	7644.6	7672.4	7688.3	7708.3	7744.1
12.5°	7438.0	7438.0	7461.8	7453.8	7469.7	7497.5	7509.5	7537.3	7561.2	7600.9	7636.8
15°	7294.8	7294.8	7302.8	7322.6	7334.5	7370.4	7390.2	7422.1	7449.9	7489.7	7541.4
17.5°	7171.6	7167.6	7171.6	7195.5	7219.3	7251.1	7267.0	7306.7	7334.5	7386.3	7434.0
20°	7048.4	7056.4	7056.4	7076.2	7092.0	7131.8	7147.7	7191.5	7223.3	7270.9	7326.7
22.5°	6941.0	6937.1	6937.1	6964.9	6976.9	7012.5	7028.4	7068.2	7104.0	7143.8	7195.5
25°	6833.7	6825.7	6841.7	6845.6	6853.5	6893.2	6905.2	6933.0	6968.8	7004.7	7056.4
27.5°	6674.6	6666.8	6670.7	6686.6	6698.5	6730.3	6738.3	6766.1	6793.9	6825.7	6869.5
30°	6368.5	6360.6	6356.7	6384.5	6396.5	6420.2	6432.1	6479.9	6487.8	6523.6	6555.3
32.5°	5963.0	5959.1	5967.1	5990.8	6002.8	6034.7	6050.5	6078.4	6098.2	6118.1	6149.9
35°	5509.9	5501.9	5509.9	5533.8	5533.8	5561.6	5573.6	5585.3	5581.4	5585.3	5577.5
37.5°	5088.6	5084.5	5088.6	5100.3	5088.6	5100.3	5088.6	5064.7	5021.0	4973.2	4925.4
40°	4730.7	4734.6	4710.9	4726.8	4682.9	4675.1	4631.4	4571.7	4484.3	4388.9	4253.7
42.5°	4349.1	4337.2	4321.3	4329.2	4293.5	4265.5	4194.0	4118.6	4007.1	3848.2	3685.1
45°	3880.0	3876.1	3868.0	3864.1	3840.2	3812.4	3752.7	3665.3	3542.1	3379.1	3184.2
47.5°	3422.8	3410.9	3410.9	3414.8	3387.0	3383.0	3335.3	3259.8	3152.5	2993.4	2790.7
50°	2985.4	2981.5	2989.5	3005.4	2985.4	2977.6	2945.8	2894.1	2798.7	2663.6	2472.6
52.5°	2591.9	2588.0	2596.0	2615.8	2607.8	2615.8	2584.0	2544.3	2480.6	2349.4	2182.5
55°	2206.4	2206.4	2206.4	2230.1	2230.1	2230.1	2214.2	2190.5	2130.8	2035.4	1880.4
57.5°	1804.8	1808.8	1832.7	1836.6	1832.7	1840.7	1836.6	1812.7	1773.1	1705.5	1586.2
60°	1466.9	1466.9	1478.9	1490.8	1486.7	1490.8	1490.8	1478.9	1439.1	1383.5	1288.1
62.5°	1160.8	1172.7	1164.7	1172.7	1188.6	1172.7	1164.7	1156.9	1129.0	1093.2	1013.7
65°	878.5	886.5	886.5	890.5	882.5	886.5	870.7	858.7	842.9	803.1	751.4
67.5°	667.9	667.9	667.9	667.9	663.8	659.9	656.0	644.0	616.2	600.4	544.6
70°	512.8	488.9	488.9	488.9	488.9	493.0	481.1	465.2	457.2	429.4	389.6
72.5°	341.8	349.8	341.8	341.8	334.0	337.9	322.0	314.0	306.2	290.3	266.4
75°	246.4	226.6	234.5	238.6	226.6	234.5	218.6	202.7	202.7	190.8	178.8
77.5°	159.0	155.1	159.0	163.0	159.0	155.1	147.1	139.1	139.1	135.2	123.2
80°	115.4	111.3	111.3	111.3	107.3	111.3	103.4	103.4	95.4	91.5	83.5
82.5°	75.6	75.6	71.5	75.6	71.5	75.6	63.7	63.7	63.7	59.6	51.7
85°	51.7	43.7	43.7	47.8	39.8	47.8	43.7	39.8	35.8	35.8	31.7
87.5°	23.9	27.8	23.9	27.8	23.9	23.9	27.8	23.9	23.9	15.9	15.9
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: P249043

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6
2.5°	8101.8	8105.7	8105.7	8121.8	8129.6	8133.5	8133.5	8165.5	8153.5	8161.5	8169.4
5°	7986.6	8010.3	8018.4	8018.4	8062.0	8077.9	8093.8	8129.6	8133.5	8157.4	8185.3
7.5°	7875.2	7903.0	7919.0	7954.7	7982.5	8010.3	8058.1	8082.0	8105.7	8137.6	8173.3
10°	7767.8	7799.7	7831.5	7859.3	7903.0	7938.8	7970.6	8026.2	8054.2	8097.9	8145.5
12.5°	7664.6	7708.3	7736.1	7783.7	7831.5	7863.2	7911.0	7962.7	8006.4	8050.1	8105.7
15°	7573.1	7624.8	7656.6	7708.3	7760.0	7803.7	7855.4	7919.0	7950.8	8002.5	8054.2
17.5°	7473.6	7529.4	7569.2	7616.8	7680.5	7728.1	7771.9	7835.4	7875.2	7930.8	7990.5
20°	7370.4	7426.0	7473.6	7521.4	7585.1	7632.7	7684.4	7748.0	7791.7	7847.4	7895.1
22.5°	7247.2	7298.9	7350.4	7406.1	7469.7	7509.5	7569.2	7624.8	7672.4	7724.1	7771.9
25°	7088.1	7151.8	7191.5	7243.1	7294.8	7338.5	7402.1	7457.8	7497.5	7545.3	7589.0
27.5°	6901.3	6949.0	6980.8	7024.5	7076.2	7115.9	7163.6	7219.3	7259.1	7302.8	7334.5
30°	6583.2	6627.0	6654.8	6686.6	6738.3	6774.1	6813.9	6865.4	6893.2	6925.1	6953.0
32.5°	6165.7	6201.6	6217.4	6241.3	6277.2	6312.8	6344.7	6388.4	6400.4	6420.2	6420.2
35°	5561.6	5569.5	5565.5	5573.6	5589.4	5609.2	5637.0	5664.9	5680.7	5680.7	5669.0
37.5°	4853.9	4806.3	4754.6	4714.8	4702.9	4694.9	4710.9	4722.7	4738.7	4746.6	4726.8
40°	4118.6	4011.2	3895.9	3792.4	3720.9	3689.2	3677.3	3685.1	3685.1	3712.9	3712.9
42.5°	3486.5	3319.4	3148.6	2993.4	2890.0	2810.7	2774.8	2774.8	2778.8	2798.7	2810.7
45°	2961.7	2750.9	2552.1	2381.3	2238.1	2134.7	2087.1	2075.2	2071.2	2079.1	2106.9
47.5°	2560.2	2341.5	2134.7	1924.1	1773.1	1669.7	1626.0	1610.0	1594.1	1610.0	1614.0
50°	2246.1	2019.5	1800.9	1590.2	1431.1	1339.6	1284.0	1260.1	1256.2	1256.2	1264.2
52.5°	1959.8	1749.2	1530.6	1315.9	1148.8	1061.5	1009.8	997.8	981.9	997.8	997.8
55°	1689.5	1478.9	1264.2	1061.5	922.2	830.9	783.1	767.3	759.2	771.2	771.2
57.5°	1395.4	1216.4	1017.8	834.8	695.8	632.1	596.3	576.5	572.4	580.4	572.4
60°	1144.9	993.9	822.9	656.0	548.7	481.1	453.3	445.2	437.2	445.2	445.2
62.5°	906.3	779.2	640.0	512.8	421.3	373.7	341.8	341.8	337.9	337.9	341.8
65°	671.9	572.4	473.1	365.7	294.2	258.4	234.5	234.5	230.6	234.5	230.6
67.5°	488.9	421.3	341.8	266.4	210.8	190.8	174.9	163.0	171.0	163.0	159.0
70°	357.9	302.1	246.4	202.7	163.0	143.2	131.2	127.1	119.3	119.3	119.3
72.5°	238.6	202.7	166.9	131.2	107.3	87.4	83.5	75.6	67.6	71.5	79.5
75°	159.0	135.2	119.3	95.4	71.5	71.5	47.8	47.8	39.8	47.8	35.8
77.5°	111.3	91.5	71.5	59.6	47.8	43.7	31.7	31.7	27.8	27.8	27.8
80°	79.5	67.6	51.7	43.7	31.7	31.7	27.8	23.9	19.8	19.8	23.9
82.5°	47.8	35.8	35.8	31.7	19.8	15.9	11.9	15.9	8.0	8.0	8.0
85°	27.8	23.9	19.8	11.9	8.0	8.0	3.9	0.0	3.9	3.9	0.0
87.5°	15.9	8.0	8.0	3.9	0.0	3.9	3.9	0.0	0.0	0.0	8.0
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: P249043

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6
2.5°	8189.3	8185.3	8193.3	8193.3	8217.2	8213.1	8225.0	8225.0	8217.2	8221.1	8237.0
5°	8217.2	8229.1	8252.8	8272.8	8308.5	8324.5	8344.3	8364.3	8368.2	8380.1	8392.1
7.5°	8217.2	8256.9	8284.7	8320.4	8368.2	8396.0	8439.7	8475.5	8491.4	8511.2	8535.1
10°	8201.1	8240.9	8292.6	8332.4	8392.1	8435.8	8479.5	8535.1	8559.0	8590.7	8622.6
12.5°	8169.4	8213.1	8268.7	8320.4	8388.0	8427.8	8483.4	8535.1	8570.9	8614.6	8650.5
15°	8121.8	8173.3	8225.0	8276.7	8348.2	8396.0	8447.7	8507.3	8543.1	8590.7	8622.6
17.5°	8046.2	8101.8	8149.6	8197.2	8264.8	8320.4	8368.2	8423.8	8459.7	8499.4	8543.1
20°	7954.7	8006.4	8058.1	8097.9	8165.5	8213.1	8264.8	8316.5	8344.3	8352.3	8419.9
22.5°	7839.5	7875.2	7914.9	7978.6	8018.4	8062.0	8109.8	8157.4	8185.3	8229.1	8252.8
25°	7648.6	7684.4	7728.1	7755.9	7803.7	7839.5	7887.1	7938.8	7954.7	7986.6	8010.3
27.5°	7382.3	7402.1	7422.1	7445.8	7473.6	7493.6	7521.4	7545.3	7561.2	7577.0	7592.9
30°	6960.8	6960.8	6960.8	6944.9	6956.9	6968.8	6972.8	6968.8	6968.8	6964.9	6964.9
32.5°	6404.3	6372.6	6336.7	6305.0	6293.0	6277.2	6269.2	6257.2	6237.4	6225.5	6229.4
35°	5652.9	5581.4	5537.7	5498.0	5466.2	5442.3	5430.4	5418.4	5414.5	5398.6	5382.6
37.5°	4714.8	4663.1	4631.4	4607.5	4579.7	4555.8	4559.7	4563.8	4575.6	4567.7	4571.7
40°	3720.9	3709.0	3720.9	3693.1	3685.1	3693.1	3712.9	3740.9	3756.8	3772.7	3800.5
42.5°	2830.5	2850.3	2878.2	2878.2	2890.0	2906.1	2929.8	2973.6	2997.4	3025.2	3057.1
45°	2130.8	2154.7	2190.5	2202.3	2210.3	2230.1	2258.1	2293.8	2309.6	2333.5	2361.3
47.5°	1641.9	1657.7	1677.5	1697.5	1717.3	1725.3	1753.1	1753.1	1773.1	1789.0	1796.8
50°	1280.1	1295.9	1311.8	1323.8	1331.8	1343.7	1351.6	1363.5	1367.5	1375.5	1379.4
52.5°	1001.7	1021.7	1021.7	1029.6	1041.5	1053.4	1049.5	1053.4	1057.4	1057.4	1069.3
55°	783.1	783.1	795.1	795.1	803.1	799.0	803.1	803.1	803.1	803.1	807.0
57.5°	584.3	588.4	600.4	592.3	588.4	596.3	588.4	596.3	592.3	600.4	588.4
60°	449.2	449.2	453.3	453.3	457.2	457.2	457.2	453.3	453.3	449.2	449.2
62.5°	337.9	341.8	345.9	341.8	341.8	341.8	337.9	337.9	334.0	329.9	329.9
65°	226.6	222.7	230.6	222.7	226.6	226.6	222.7	226.6	214.7	218.6	214.7
67.5°	163.0	159.0	155.1	159.0	155.1	151.0	151.0	155.1	159.0	147.1	147.1
70°	107.3	111.3	107.3	111.3	115.4	115.4	111.3	107.3	111.3	103.4	107.3
72.5°	67.6	67.6	67.6	67.6	67.6	71.5	71.5	71.5	63.7	63.7	59.6
75°	31.7	43.7	35.8	31.7	43.7	43.7	39.8	39.8	35.8	35.8	35.8
77.5°	31.7	23.9	23.9	23.9	23.9	23.9	23.9	23.9	19.8	23.9	19.8
80°	15.9	15.9	15.9	11.9	15.9	15.9	19.8	15.9	15.9	11.9	19.8
82.5°	8.0	8.0	8.0	0.0	3.9	8.0	8.0	3.9	8.0	8.0	3.9
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: P249043

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6
2.5°	8233.0	8229.1	8233.0	8237.0	8233.0	8229.1	8233.0	8237.0	8221.1	8217.2	8225.0
5°	8408.0	8408.0	8415.8	8419.9	8415.8	8408.0	8408.0	8392.1	8380.1	8368.2	8364.3
7.5°	8559.0	8567.0	8574.9	8578.8	8574.9	8567.0	8559.0	8535.1	8511.2	8491.4	8475.5
10°	8650.5	8662.4	8678.3	8686.1	8678.3	8662.4	8650.5	8622.6	8590.7	8559.0	8535.1
12.5°	8690.2	8702.2	8722.0	8718.0	8722.0	8702.2	8690.2	8650.5	8614.6	8570.9	8535.1
15°	8662.4	8678.3	8698.1	8706.1	8698.1	8678.3	8662.4	8622.6	8590.7	8543.1	8507.3
17.5°	8574.9	8598.7	8610.7	8622.6	8610.7	8598.7	8574.9	8543.1	8499.4	8459.7	8423.8
20°	8455.6	8471.6	8487.5	8491.4	8487.5	8471.6	8455.6	8419.9	8352.3	8344.3	8316.5
22.5°	8284.7	8296.7	8332.4	8320.4	8332.4	8296.7	8284.7	8252.8	8229.1	8185.3	8157.4
25°	8038.2	8050.1	8054.2	8058.1	8054.2	8050.1	8038.2	8010.3	7986.6	7954.7	7938.8
27.5°	7612.9	7612.9	7620.7	7624.8	7620.7	7612.9	7612.9	7592.9	7577.0	7561.2	7545.3
30°	6968.8	6968.8	6968.8	6988.8	6968.8	6968.8	6968.8	6964.9	6964.9	6968.8	6968.8
32.5°	6225.5	6217.4	6209.6	6217.4	6209.6	6217.4	6225.5	6229.4	6225.5	6237.4	6257.2
35°	5382.6	5378.7	5390.6	5374.8	5390.6	5378.7	5382.6	5382.6	5398.6	5414.5	5418.4
37.5°	4575.6	4567.7	4583.6	4567.7	4583.6	4567.7	4575.6	4571.7	4567.7	4575.6	4563.8
40°	3808.5	3816.3	3816.3	3848.2	3816.3	3816.3	3808.5	3800.5	3772.7	3756.8	3740.9
42.5°	3073.0	3096.9	3088.8	3112.7	3088.8	3096.9	3073.0	3057.1	3025.2	2997.4	2973.6
45°	2377.2	2393.3	2393.3	2401.1	2393.3	2393.3	2377.2	2361.3	2333.5	2309.6	2293.8
47.5°	1824.6	1824.6	1824.6	1828.7	1824.6	1824.6	1824.6	1796.8	1789.0	1773.1	1753.1
50°	1387.4	1391.3	1395.4	1399.4	1395.4	1391.3	1387.4	1379.4	1375.5	1367.5	1363.5
52.5°	1065.4	1069.3	1061.5	1069.3	1061.5	1069.3	1065.4	1069.3	1057.4	1057.4	1053.4
55°	807.0	803.1	807.0	810.9	807.0	803.1	807.0	807.0	803.1	803.1	803.1
57.5°	592.3	584.3	584.3	584.3	584.3	584.3	592.3	588.4	600.4	592.3	596.3
60°	441.3	445.2	445.2	449.2	445.2	445.2	441.3	449.2	449.2	453.3	453.3
62.5°	326.0	337.9	329.9	337.9	329.9	337.9	326.0	329.9	329.9	334.0	337.9
65°	210.8	210.8	210.8	214.7	210.8	210.8	210.8	214.7	218.6	214.7	226.6
67.5°	143.2	147.1	155.1	151.0	155.1	147.1	143.2	147.1	147.1	159.0	155.1
70°	115.4	103.4	103.4	115.4	103.4	103.4	115.4	107.3	103.4	111.3	107.3
72.5°	67.6	59.6	67.6	67.6	67.6	59.6	67.6	59.6	63.7	63.7	71.5
75°	35.8	31.7	27.8	39.8	27.8	31.7	35.8	35.8	35.8	35.8	39.8
77.5°	23.9	19.8	27.8	27.8	27.8	19.8	23.9	19.8	23.9	19.8	23.9
80°	11.9	15.9	11.9	19.8	11.9	15.9	11.9	19.8	11.9	15.9	15.9
82.5°	3.9	8.0	8.0	8.0	8.0	8.0	3.9	3.9	8.0	8.0	3.9
85°	0.0	8.0	3.9	3.9	3.9	8.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	0.0	0.0	3.9	0.0	0.0	3.9	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: P249043

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6
2.5°	8225.0	8213.1	8217.2	8193.3	8193.3	8185.3	8189.3	8169.4	8161.5	8153.5	8165.5
5°	8344.3	8324.5	8308.5	8272.8	8252.8	8229.1	8217.2	8185.3	8157.4	8133.5	8129.6
7.5°	8439.7	8396.0	8368.2	8320.4	8284.7	8256.9	8217.2	8173.3	8137.6	8105.7	8082.0
10°	8479.5	8435.8	8392.1	8332.4	8292.6	8240.9	8201.1	8145.5	8097.9	8054.2	8026.2
12.5°	8483.4	8427.8	8388.0	8320.4	8268.7	8213.1	8169.4	8105.7	8050.1	8006.4	7962.7
15°	8447.7	8396.0	8348.2	8276.7	8225.0	8173.3	8121.8	8054.2	8002.5	7950.8	7919.0
17.5°	8368.2	8320.4	8264.8	8197.2	8149.6	8101.8	8046.2	7990.5	7930.8	7875.2	7835.4
20°	8264.8	8213.1	8165.5	8097.9	8058.1	8006.4	7954.7	7895.1	7847.4	7791.7	7748.0
22.5°	8109.8	8062.0	8018.4	7978.6	7914.9	7875.2	7839.5	7771.9	7724.1	7672.4	7624.8
25°	7887.1	7839.5	7803.7	7755.9	7728.1	7684.4	7648.6	7589.0	7545.3	7497.5	7457.8
27.5°	7521.4	7493.6	7473.6	7445.8	7422.1	7402.1	7382.3	7334.5	7302.8	7259.1	7219.3
30°	6972.8	6968.8	6956.9	6944.9	6960.8	6960.8	6960.8	6953.0	6925.1	6893.2	6865.4
32.5°	6269.2	6277.2	6293.0	6305.0	6336.7	6372.6	6404.3	6420.2	6420.2	6400.4	6388.4
35°	5430.4	5442.3	5466.2	5498.0	5537.7	5581.4	5652.9	5669.0	5680.7	5680.7	5664.9
37.5°	4559.7	4555.8	4579.7	4607.5	4631.4	4663.1	4714.8	4726.8	4746.6	4738.7	4722.7
40°	3712.9	3693.1	3685.1	3693.1	3720.9	3709.0	3720.9	3712.9	3712.9	3685.1	3685.1
42.5°	2929.8	2906.1	2890.0	2878.2	2878.2	2850.3	2830.5	2810.7	2798.7	2778.8	2774.8
45°	2258.1	2230.1	2210.3	2202.3	2190.5	2154.7	2130.8	2106.9	2079.1	2071.2	2075.2
47.5°	1753.1	1725.3	1717.3	1697.5	1677.5	1657.7	1641.9	1614.0	1610.0	1594.1	1610.0
50°	1351.6	1343.7	1331.8	1323.8	1311.8	1295.9	1280.1	1264.2	1256.2	1256.2	1260.1
52.5°	1049.5	1053.4	1041.5	1029.6	1021.7	1021.7	1001.7	997.8	997.8	981.9	997.8
55°	803.1	799.0	803.1	795.1	795.1	783.1	783.1	771.2	771.2	759.2	767.3
57.5°	588.4	596.3	588.4	592.3	600.4	588.4	584.3	572.4	580.4	572.4	576.5
60°	457.2	457.2	457.2	453.3	453.3	449.2	449.2	445.2	445.2	437.2	445.2
62.5°	337.9	341.8	341.8	341.8	345.9	341.8	337.9	341.8	337.9	337.9	341.8
65°	222.7	226.6	226.6	222.7	230.6	222.7	226.6	230.6	234.5	230.6	234.5
67.5°	151.0	151.0	155.1	159.0	155.1	159.0	163.0	159.0	163.0	171.0	163.0
70°	111.3	115.4	115.4	111.3	107.3	111.3	107.3	119.3	119.3	119.3	127.1
72.5°	71.5	71.5	67.6	67.6	67.6	67.6	67.6	79.5	71.5	67.6	75.6
75°	39.8	43.7	43.7	31.7	35.8	43.7	31.7	35.8	47.8	39.8	47.8
77.5°	23.9	23.9	23.9	23.9	23.9	23.9	31.7	27.8	27.8	27.8	31.7
80°	19.8	15.9	15.9	11.9	15.9	15.9	15.9	23.9	19.8	19.8	23.9
82.5°	8.0	8.0	3.9	0.0	8.0	8.0	8.0	8.0	8.0	8.0	15.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	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: P249043

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6
2.5°	8133.5	8133.5	8129.6	8121.8	8105.7	8105.7	8101.8	8089.9	8082.0	8077.9	8077.9
5°	8093.8	8077.9	8062.0	8018.4	8018.4	8010.3	7986.6	7970.6	7962.7	7942.8	7934.9
7.5°	8058.1	8010.3	7982.5	7954.7	7919.0	7903.0	7875.2	7863.2	7835.4	7815.6	7803.7
10°	7970.6	7938.8	7903.0	7859.3	7831.5	7799.7	7767.8	7744.1	7708.3	7688.3	7672.4
12.5°	7911.0	7863.2	7831.5	7783.7	7736.1	7708.3	7664.6	7636.8	7600.9	7561.2	7537.3
15°	7855.4	7803.7	7760.0	7708.3	7656.6	7624.8	7573.1	7541.4	7489.7	7449.9	7422.1
17.5°	7771.9	7728.1	7680.5	7616.8	7569.2	7529.4	7473.6	7434.0	7386.3	7334.5	7306.7
20°	7684.4	7632.7	7585.1	7521.4	7473.6	7426.0	7370.4	7326.7	7270.9	7223.3	7191.5
22.5°	7569.2	7509.5	7469.7	7406.1	7350.4	7298.9	7247.2	7195.5	7143.8	7104.0	7068.2
25°	7402.1	7338.5	7294.8	7243.1	7191.5	7151.8	7088.1	7056.4	7004.7	6968.8	6933.0
27.5°	7163.6	7115.9	7076.2	7024.5	6980.8	6949.0	6901.3	6869.5	6825.7	6793.9	6766.1
30°	6813.9	6774.1	6738.3	6686.6	6654.8	6627.0	6583.2	6555.3	6523.6	6487.8	6479.9
32.5°	6344.7	6312.8	6277.2	6241.3	6217.4	6201.6	6165.7	6149.9	6118.1	6098.2	6078.4
35°	5637.0	5609.2	5589.4	5573.6	5565.5	5569.5	5561.6	5577.5	5585.3	5581.4	5585.3
37.5°	4710.9	4694.9	4702.9	4714.8	4754.6	4806.3	4853.9	4925.4	4973.2	5021.0	5064.7
40°	3677.3	3689.2	3720.9	3792.4	3895.9	4011.2	4118.6	4253.7	4388.9	4484.3	4571.7
42.5°	2774.8	2810.7	2890.0	2993.4	3148.6	3319.4	3486.5	3685.1	3848.2	4007.1	4118.6
45°	2087.1	2134.7	2238.1	2381.3	2552.1	2750.9	2961.7	3184.2	3379.1	3542.1	3665.3
47.5°	1626.0	1669.7	1773.1	1924.1	2134.7	2341.5	2560.2	2790.7	2993.4	3152.5	3259.8
50°	1284.0	1339.6	1431.1	1590.2	1800.9	2019.5	2246.1	2472.6	2663.6	2798.7	2894.1
52.5°	1009.8	1061.5	1148.8	1315.9	1530.6	1749.2	1959.8	2182.5	2349.4	2480.6	2544.3
55°	783.1	830.9	922.2	1061.5	1264.2	1478.9	1689.5	1880.4	2035.4	2130.8	2190.5
57.5°	596.3	632.1	695.8	834.8	1017.8	1216.4	1395.4	1586.2	1705.5	1773.1	1812.7
60°	453.3	481.1	548.7	656.0	822.9	993.9	1144.9	1288.1	1383.5	1439.1	1478.9
62.5°	341.8	373.7	421.3	512.8	640.0	779.2	906.3	1013.7	1093.2	1129.0	1156.9
65°	234.5	258.4	294.2	365.7	473.1	572.4	671.9	751.4	803.1	842.9	858.7
67.5°	174.9	190.8	210.8	266.4	341.8	421.3	488.9	544.6	600.4	616.2	644.0
70°	131.2	143.2	163.0	202.7	246.4	302.1	357.9	389.6	429.4	457.2	465.2
72.5°	83.5	87.4	107.3	131.2	166.9	202.7	238.6	266.4	290.3	306.2	314.0
75°	47.8	71.5	71.5	95.4	119.3	135.2	159.0	178.8	190.8	202.7	202.7
77.5°	31.7	43.7	47.8	59.6	71.5	91.5	111.3	123.2	135.2	139.1	139.1
80°	27.8	31.7	31.7	43.7	51.7	67.6	79.5	83.5	91.5	95.4	103.4
82.5°	11.9	15.9	19.8	31.7	35.8	35.8	47.8	51.7	59.6	63.7	63.7
85°	3.9	8.0	8.0	11.9	19.8	23.9	27.8	31.7	35.8	35.8	39.8
87.5°	3.9	3.9	0.0	3.9	8.0	8.0	15.9	15.9	15.9	23.9	23.9
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: P249043

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6	8141.6
2.5°	8070.1	8074.0	8058.1	8054.2	8046.2	8050.1	8058.1
5°	7923.0	7926.9	7911.0	7895.1	7895.1	7891.1	7895.1
7.5°	7783.7	7787.8	7763.9	7755.9	7740.0	7744.1	7744.1
10°	7644.6	7644.6	7609.0	7604.9	7592.9	7589.0	7589.0
12.5°	7509.5	7497.5	7469.7	7453.8	7461.8	7438.0	7438.0
15°	7390.2	7370.4	7334.5	7322.6	7302.8	7294.8	7294.8
17.5°	7267.0	7251.1	7219.3	7195.5	7171.6	7167.6	7171.6
20°	7147.7	7131.8	7092.0	7076.2	7056.4	7056.4	7048.4
22.5°	7028.4	7012.5	6976.9	6964.9	6937.1	6937.1	6941.0
25°	6905.2	6893.2	6853.5	6845.6	6841.7	6825.7	6833.7
27.5°	6738.3	6730.3	6698.5	6686.6	6670.7	6666.8	6674.6
30°	6432.1	6420.2	6396.5	6384.5	6356.7	6360.6	6368.5
32.5°	6050.5	6034.7	6002.8	5990.8	5967.1	5959.1	5963.0
35°	5573.6	5561.6	5533.8	5533.8	5509.9	5501.9	5509.9
37.5°	5088.6	5100.3	5088.6	5100.3	5088.6	5084.5	5088.6
40°	4631.4	4675.1	4682.9	4726.8	4710.9	4734.6	4730.7
42.5°	4194.0	4265.5	4293.5	4329.2	4321.3	4337.2	4349.1
45°	3752.7	3812.4	3840.2	3864.1	3868.0	3876.1	3880.0
47.5°	3335.3	3383.0	3387.0	3414.8	3410.9	3410.9	3422.8
50°	2945.8	2977.6	2985.4	3005.4	2989.5	2981.5	2985.4
52.5°	2584.0	2615.8	2607.8	2615.8	2596.0	2588.0	2591.9
55°	2214.2	2230.1	2230.1	2230.1	2206.4	2206.4	2206.4
57.5°	1836.6	1840.7	1832.7	1836.6	1832.7	1808.8	1804.8
60°	1490.8	1490.8	1486.7	1490.8	1478.9	1466.9	1466.9
62.5°	1164.7	1172.7	1188.6	1172.7	1164.7	1172.7	1160.8
65°	870.7	886.5	882.5	890.5	886.5	886.5	878.5
67.5°	656.0	659.9	663.8	667.9	667.9	667.9	667.9
70°	481.1	493.0	488.9	488.9	488.9	488.9	512.8
72.5°	322.0	337.9	334.0	341.8	341.8	349.8	341.8
75°	218.6	234.5	226.6	238.6	234.5	226.6	246.4
77.5°	147.1	155.1	159.0	163.0	159.0	155.1	159.0
80°	103.4	111.3	107.3	111.3	111.3	111.3	115.4
82.5°	63.7	75.6	71.5	75.6	71.5	75.6	75.6
85°	43.7	47.8	39.8	47.8	43.7	43.7	51.7
87.5°	27.8	23.9	23.9	27.8	23.9	27.8	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)