

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: P248565

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248565  
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: LSR8B120D010 EC8B120835 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12331.0 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

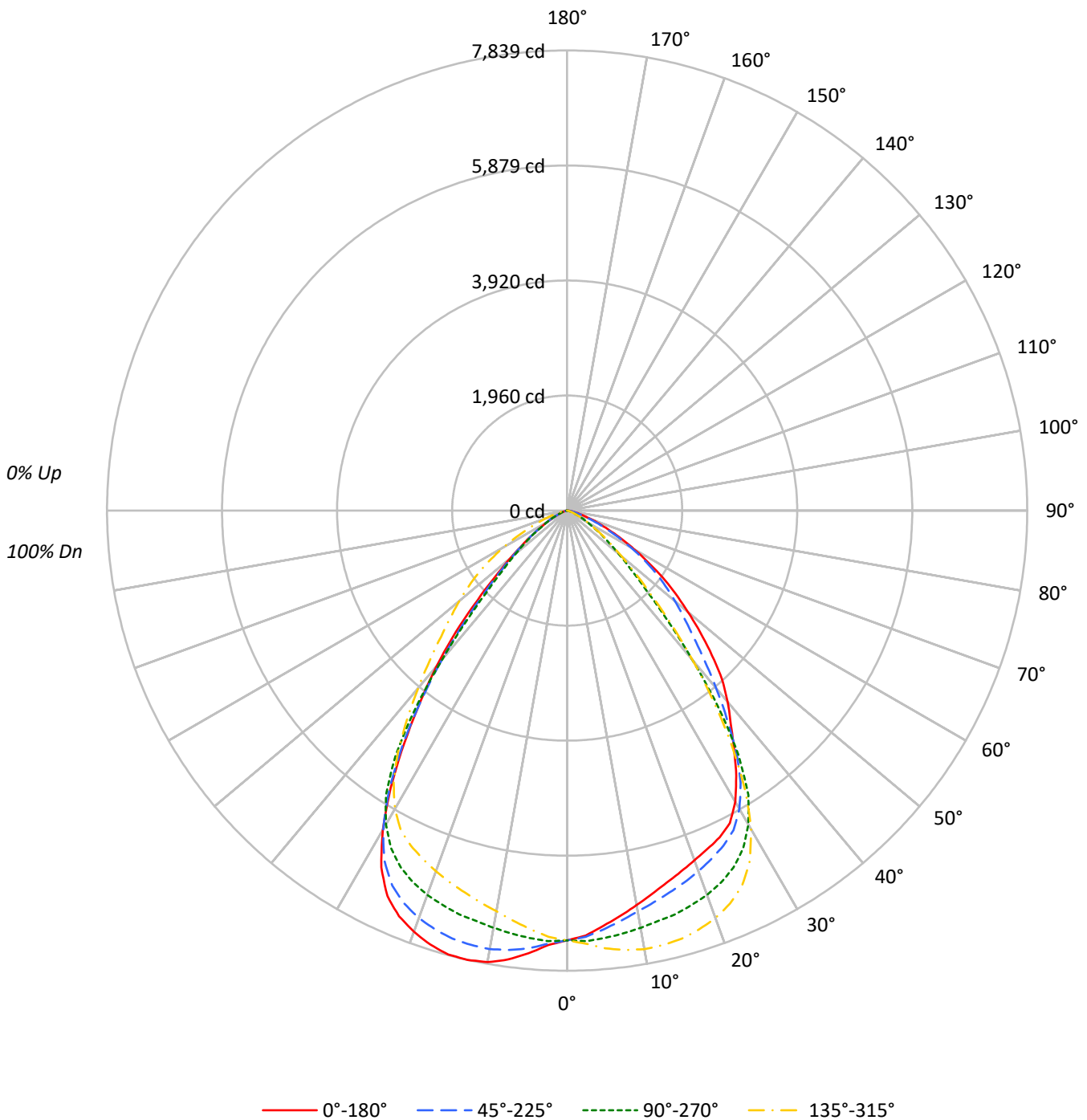
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	225737	225737	225737	225737
5°	219740	226268	234347	226268
10°	213664	225973	244553	225973
15°	209393	227312	249905	227312
20°	207970	228614	250548	228614
25°	209061	228155	246522	228155
30°	203891	219804	223753	219804
35°	186501	191744	181923	191744
40°	171224	133381	139287	133381
45°	152139	81370	94152	81370
50°	128778	54353	60359	54353
55°	106657	37090	39203	37090
60°	81346	24688	24910	24688
65°	57635	15381	14082	15381
70°	41572	10305	9350	10305
75°	26402	5123	4265	5123
80°	18415	3818	3161	3818
85°	16452	0	1238	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	696.8	5.7
10°-20°	2017.7	16.4
20°-30°	3055.3	24.8
30°-40°	3062.1	24.8
40°-50°	1922.9	15.6
50°-60°	1024.7	8.3
60°-70°	421.4	3.4
70°-80°	111.3	0.9
80°-90°	18.8	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°	5769.8	46.8
0°-40°	8831.9	71.6
0°-60°	11779.5	95.5
0°-90°	12331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12331.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7320	7320	7320	7320	7320	
5°	7099	7310	7571	7310	7099	669
15°	6559	7120	7828	7120	6559	1855
25°	6144	6706	7246	6706	6144	2818
35°	4954	5094	4833	5094	4954	3104
45°	3489	1866	2159	1866	3489	2683
55°	1984	690	729	690	1984	1769
65°	790	211	193	211	790	819
75°	222	43	36	43	222	251
85°	46	0	4	0	46	51
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°	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5
2.5°	7245.5	7238.3	7234.7	7242.0	7245.5	7259.8	7256.2	7263.3	7263.3	7267.0	7274.0
5°	7098.9	7095.3	7098.9	7098.9	7113.2	7127.5	7124.0	7134.7	7141.8	7159.7	7166.8
7.5°	6963.1	6963.1	6959.5	6973.7	6981.0	7002.4	6998.8	7016.7	7027.4	7045.2	7070.3
10°	6823.7	6823.7	6827.2	6837.9	6841.6	6873.7	6873.7	6898.7	6913.0	6930.9	6963.1
12.5°	6687.9	6687.9	6709.4	6702.1	6716.4	6741.4	6752.2	6777.2	6798.7	6834.4	6866.6
15°	6559.1	6559.1	6566.3	6584.1	6594.9	6627.1	6644.9	6673.6	6698.6	6734.4	6780.9
17.5°	6448.3	6444.8	6448.3	6469.8	6491.3	6519.9	6534.1	6569.9	6594.9	6641.4	6684.3
20°	6337.6	6344.8	6344.8	6362.6	6376.8	6412.6	6426.9	6466.3	6494.8	6537.7	6587.8
22.5°	6241.0	6237.5	6237.5	6262.5	6273.3	6305.3	6319.6	6355.4	6387.6	6423.3	6469.8
25°	6144.5	6137.3	6151.7	6155.3	6162.3	6198.1	6208.8	6233.8	6266.1	6298.3	6344.8
27.5°	6001.5	5994.5	5998.0	6012.3	6023.0	6051.5	6058.8	6083.8	6108.8	6137.3	6176.7
30°	5726.2	5719.2	5715.6	5740.7	5751.4	5772.7	5783.5	5826.4	5833.5	5865.7	5894.3
32.5°	5361.7	5358.1	5365.3	5386.7	5397.4	5426.1	5440.4	5465.4	5483.2	5501.1	5529.7
35°	4954.3	4947.0	4954.3	4975.7	4975.7	5000.7	5011.5	5022.1	5018.6	5022.1	5015.0
37.5°	4575.4	4571.7	4575.4	4586.0	4575.4	4586.0	4575.4	4553.9	4514.6	4471.7	4428.7
40°	4253.6	4257.2	4235.8	4250.1	4210.7	4203.6	4164.3	4110.6	4032.1	3946.3	3824.8
42.5°	3910.5	3899.8	3885.5	3892.6	3860.5	3835.3	3771.0	3703.2	3603.0	3460.2	3313.5
45°	3488.7	3485.2	3478.0	3474.4	3453.0	3427.9	3374.2	3295.7	3184.9	3038.4	2863.1
47.5°	3077.6	3066.9	3066.9	3070.4	3045.4	3041.9	2998.9	2931.1	2834.6	2691.6	2509.3
50°	2684.4	2680.8	2688.0	2702.3	2684.4	2677.3	2648.8	2602.3	2516.5	2395.0	2223.3
52.5°	2330.5	2327.0	2334.2	2352.0	2344.8	2352.0	2323.5	2287.7	2230.5	2112.5	1962.4
55°	1983.9	1983.9	1983.9	2005.2	2005.2	2005.2	1990.9	1969.6	1915.9	1830.1	1690.8
57.5°	1622.8	1626.4	1647.8	1651.4	1647.8	1655.0	1651.4	1629.9	1594.3	1533.5	1426.3
60°	1319.0	1319.0	1329.7	1340.5	1336.8	1340.5	1340.5	1329.7	1294.0	1244.0	1158.2
62.5°	1043.7	1054.5	1047.3	1054.5	1068.7	1054.5	1047.3	1040.2	1015.2	983.0	911.5
65°	789.9	797.1	797.1	800.7	793.5	797.1	782.9	772.1	757.9	722.1	675.6
67.5°	600.6	600.6	600.6	600.6	596.9	593.4	589.8	579.1	554.1	539.8	489.6
70°	461.1	439.6	439.6	439.6	439.6	443.3	432.6	418.3	411.1	386.1	350.3
72.5°	307.4	314.6	307.4	307.4	300.3	303.8	289.5	282.3	275.3	261.0	239.5
75°	221.6	203.8	210.8	214.5	203.8	210.8	196.6	182.3	182.3	171.6	160.8
77.5°	143.0	139.5	143.0	146.5	143.0	139.5	132.3	125.1	125.1	121.5	110.8
80°	103.7	100.0	100.0	100.0	96.5	100.0	93.0	93.0	85.8	82.2	75.0
82.5°	68.0	68.0	64.3	68.0	64.3	68.0	57.2	57.2	57.2	53.6	46.5
85°	46.5	39.3	39.3	43.0	35.8	43.0	39.3	35.8	32.2	32.2	28.5
87.5°	21.5	25.0	21.5	25.0	21.5	21.5	25.0	21.5	21.5	14.3	14.3
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5
2.5°	7284.8	7288.3	7288.3	7302.7	7309.8	7313.3	7313.3	7342.0	7331.3	7338.5	7345.5
5°	7181.2	7202.5	7209.7	7209.7	7249.0	7263.3	7277.6	7309.8	7313.3	7334.8	7359.8
7.5°	7081.0	7106.0	7120.4	7152.5	7177.5	7202.5	7245.5	7267.0	7288.3	7317.0	7349.1
10°	6984.5	7013.2	7041.7	7066.7	7106.0	7138.2	7166.8	7216.8	7242.0	7281.2	7324.1
12.5°	6891.6	6930.9	6955.9	6998.8	7041.7	7070.3	7113.2	7159.7	7199.0	7238.3	7288.3
15°	6809.4	6855.9	6884.4	6930.9	6977.4	7016.7	7063.2	7120.4	7149.0	7195.5	7242.0
17.5°	6719.9	6770.1	6805.9	6848.7	6905.9	6948.7	6988.2	7045.2	7081.0	7131.0	7184.7
20°	6627.1	6677.1	6719.9	6762.9	6820.1	6863.0	6909.4	6966.7	7006.0	7056.0	7098.9
22.5°	6516.3	6562.8	6609.2	6659.2	6716.4	6752.2	6805.9	6855.9	6898.7	6945.2	6988.2
25°	6373.3	6430.5	6466.3	6512.6	6559.1	6598.4	6655.7	6705.7	6741.4	6784.4	6823.7
27.5°	6205.3	6248.3	6276.8	6316.1	6362.6	6398.3	6441.1	6491.3	6527.1	6566.3	6594.9
30°	5919.3	5958.7	5983.7	6012.3	6058.8	6091.0	6126.7	6173.1	6198.1	6226.8	6251.8
32.5°	5543.9	5576.2	5590.4	5611.9	5644.1	5676.2	5704.9	5744.2	5754.9	5772.7	5772.7
35°	5000.7	5007.8	5004.3	5011.5	5025.8	5043.6	5068.6	5093.6	5107.9	5107.9	5097.3
37.5°	4364.4	4321.6	4275.1	4239.4	4228.6	4221.4	4235.8	4246.4	4260.8	4267.9	4250.1
40°	3703.2	3606.7	3503.0	3410.0	3345.7	3317.2	3306.4	3313.5	3313.5	3338.5	3338.5
42.5°	3134.9	2984.6	2831.0	2691.6	2598.6	2527.2	2495.0	2495.0	2498.5	2516.5	2527.2
45°	2663.0	2473.5	2294.8	2141.2	2012.4	1919.4	1876.6	1865.9	1862.4	1869.4	1894.4
47.5°	2302.0	2105.4	1919.4	1730.1	1594.3	1501.3	1462.0	1447.6	1433.3	1447.6	1451.3
50°	2019.6	1815.9	1619.3	1429.8	1286.8	1204.5	1154.5	1133.0	1129.5	1129.5	1136.7
52.5°	1762.2	1572.8	1376.2	1183.2	1033.0	954.4	907.9	897.2	882.9	897.2	897.2
55°	1519.1	1329.7	1136.7	954.4	829.2	747.1	704.2	689.9	682.7	693.4	693.4
57.5°	1254.7	1093.8	915.1	750.6	625.6	568.4	536.1	518.3	514.7	521.9	514.7
60°	1029.5	893.7	739.9	589.8	493.3	432.6	407.5	400.3	393.1	400.3	400.3
62.5°	814.9	700.6	575.4	461.1	378.9	336.0	307.4	307.4	303.8	303.8	307.4
65°	604.1	514.7	425.3	328.8	264.5	232.3	210.8	210.8	207.3	210.8	207.3
67.5°	439.6	378.9	307.4	239.5	189.5	171.6	157.3	146.5	153.7	146.5	143.0
70°	321.8	271.6	221.6	182.3	146.5	128.7	118.0	114.3	107.3	107.3	107.3
72.5°	214.5	182.3	150.1	118.0	96.5	78.6	75.0	68.0	60.8	64.3	71.5
75°	143.0	121.5	107.3	85.8	64.3	64.3	43.0	43.0	35.8	43.0	32.2
77.5°	100.0	82.2	64.3	53.6	43.0	39.3	28.5	28.5	25.0	25.0	25.0
80°	71.5	60.8	46.5	39.3	28.5	28.5	25.0	21.5	17.8	17.8	21.5
82.5°	43.0	32.2	32.2	28.5	17.8	14.3	10.7	14.3	7.2	7.2	7.2
85°	25.0	21.5	17.8	10.7	7.2	7.2	3.5	0.0	3.5	3.5	0.0
87.5°	14.3	7.2	7.2	3.5	0.0	3.5	3.5	0.0	0.0	0.0	7.2
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°	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5
2.5°	7363.5	7359.8	7367.0	7367.0	7388.5	7384.8	7395.6	7395.6	7388.5	7392.0	7406.3
5°	7388.5	7399.2	7420.6	7438.5	7470.6	7485.0	7502.8	7520.8	7524.3	7535.0	7545.8
7.5°	7388.5	7424.2	7449.3	7481.3	7524.3	7549.3	7588.6	7620.8	7635.1	7652.9	7674.4
10°	7374.1	7409.8	7456.3	7492.1	7545.8	7585.1	7624.3	7674.4	7695.8	7724.4	7753.1
12.5°	7345.5	7384.8	7434.8	7481.3	7542.1	7577.9	7627.9	7674.4	7706.6	7745.9	7778.1
15°	7302.7	7349.1	7395.6	7442.1	7506.3	7549.3	7595.8	7649.4	7681.6	7724.4	7753.1
17.5°	7234.7	7284.8	7327.7	7370.5	7431.3	7481.3	7524.3	7574.3	7606.5	7642.3	7681.6
20°	7152.5	7199.0	7245.5	7281.2	7342.0	7384.8	7431.3	7477.8	7502.8	7510.0	7570.8
22.5°	7048.9	7081.0	7116.8	7174.0	7209.7	7249.0	7292.0	7334.8	7359.8	7399.2	7420.6
25°	6877.2	6909.4	6948.7	6973.7	7016.7	7048.9	7091.7	7138.2	7152.5	7181.2	7202.5
27.5°	6637.8	6655.7	6673.6	6694.9	6719.9	6737.9	6762.9	6784.4	6798.7	6812.9	6827.2
30°	6258.8	6258.8	6258.8	6244.6	6255.3	6266.1	6269.6	6266.1	6266.1	6262.5	6262.5
32.5°	5758.5	5729.9	5697.7	5669.2	5658.4	5644.1	5636.9	5626.2	5608.4	5597.6	5601.2
35°	5082.8	5018.6	4979.3	4943.5	4915.0	4893.5	4882.8	4872.0	4868.5	4854.2	4839.8
37.5°	4239.4	4192.9	4164.3	4142.8	4117.8	4096.4	4099.9	4103.6	4114.2	4107.1	4110.6
40°	3345.7	3335.0	3345.7	3320.7	3313.5	3320.7	3338.5	3363.7	3377.9	3392.2	3417.2
42.5°	2545.0	2562.8	2588.0	2588.0	2598.6	2613.0	2634.3	2673.8	2695.1	2720.1	2748.8
45°	1915.9	1937.4	1969.6	1980.2	1987.4	2005.2	2030.4	2062.4	2076.7	2098.2	2123.2
47.5°	1476.3	1490.6	1508.4	1526.3	1544.1	1551.3	1576.3	1576.3	1594.3	1608.6	1615.6
50°	1151.0	1165.3	1179.5	1190.3	1197.5	1208.2	1215.3	1226.0	1229.6	1236.8	1240.3
52.5°	900.7	918.7	918.7	925.7	936.5	947.2	943.7	947.2	950.7	950.7	961.5
55°	704.2	704.2	714.9	714.9	722.1	718.4	722.1	722.1	722.1	722.1	725.6
57.5°	525.4	529.1	539.8	532.6	529.1	536.1	529.1	536.1	532.6	539.8	529.1
60°	403.9	403.9	407.5	407.5	411.1	411.1	411.1	407.5	407.5	403.9	403.9
62.5°	303.8	307.4	311.0	307.4	307.4	307.4	303.8	303.8	300.3	296.6	296.6
65°	203.8	200.2	207.3	200.2	203.8	203.8	200.2	203.8	193.0	196.6	193.0
67.5°	146.5	143.0	139.5	143.0	139.5	135.8	135.8	139.5	143.0	132.3	132.3
70°	96.5	100.0	96.5	100.0	103.7	103.7	100.0	96.5	100.0	93.0	96.5
72.5°	60.8	60.8	60.8	60.8	60.8	64.3	64.3	64.3	57.2	57.2	53.6
75°	28.5	39.3	32.2	28.5	39.3	39.3	35.8	35.8	32.2	32.2	32.2
77.5°	28.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	17.8	21.5	17.8
80°	14.3	14.3	14.3	10.7	14.3	14.3	17.8	14.3	14.3	10.7	17.8
82.5°	7.2	7.2	7.2	0.0	3.5	7.2	7.2	3.5	7.2	7.2	3.5
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: P248565

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5
2.5°	7402.8	7399.2	7402.8	7406.3	7402.8	7399.2	7402.8	7406.3	7392.0	7388.5	7395.6
5°	7560.0	7560.0	7567.1	7570.8	7567.1	7560.0	7560.0	7545.8	7535.0	7524.3	7520.8
7.5°	7695.8	7703.1	7710.1	7713.7	7710.1	7703.1	7695.8	7674.4	7652.9	7635.1	7620.8
10°	7778.1	7788.8	7803.1	7810.2	7803.1	7788.8	7778.1	7753.1	7724.4	7695.8	7674.4
12.5°	7813.8	7824.6	7842.4	7838.9	7842.4	7824.6	7813.8	7778.1	7745.9	7706.6	7674.4
15°	7788.8	7803.1	7820.9	7828.1	7820.9	7803.1	7788.8	7753.1	7724.4	7681.6	7649.4
17.5°	7710.1	7731.6	7742.3	7753.1	7742.3	7731.6	7710.1	7681.6	7642.3	7606.5	7574.3
20°	7602.9	7617.3	7631.6	7635.1	7631.6	7617.3	7602.9	7570.8	7510.0	7502.8	7477.8
22.5°	7449.3	7460.0	7492.1	7481.3	7492.1	7460.0	7449.3	7420.6	7399.2	7359.8	7334.8
25°	7227.5	7238.3	7242.0	7245.5	7242.0	7238.3	7227.5	7202.5	7181.2	7152.5	7138.2
27.5°	6845.2	6845.2	6852.2	6855.9	6852.2	6845.2	6845.2	6827.2	6812.9	6798.7	6784.4
30°	6266.1	6266.1	6266.1	6284.0	6266.1	6266.1	6266.1	6262.5	6262.5	6266.1	6266.1
32.5°	5597.6	5590.4	5583.4	5590.4	5583.4	5590.4	5597.6	5601.2	5597.6	5608.4	5626.2
35°	4839.8	4836.3	4847.0	4832.7	4847.0	4836.3	4839.8	4839.8	4854.2	4868.5	4872.0
37.5°	4114.2	4107.1	4121.4	4107.1	4121.4	4107.1	4114.2	4110.6	4107.1	4114.2	4103.6
40°	3424.4	3431.5	3431.5	3460.2	3431.5	3431.5	3424.4	3417.2	3392.2	3377.9	3363.7
42.5°	2763.1	2784.6	2777.3	2798.8	2777.3	2784.6	2763.1	2748.8	2720.1	2695.1	2673.8
45°	2137.5	2151.9	2151.9	2159.0	2151.9	2151.9	2137.5	2123.2	2098.2	2076.7	2062.4
47.5°	1640.6	1640.6	1640.6	1644.3	1640.6	1640.6	1640.6	1615.6	1608.6	1594.3	1576.3
50°	1247.5	1251.0	1254.7	1258.2	1254.7	1251.0	1247.5	1240.3	1236.8	1229.6	1226.0
52.5°	958.0	961.5	954.4	961.5	954.4	961.5	958.0	961.5	950.7	950.7	947.2
55°	725.6	722.1	725.6	729.2	725.6	722.1	725.6	725.6	722.1	722.1	722.1
57.5°	532.6	525.4	525.4	525.4	525.4	525.4	532.6	529.1	539.8	532.6	536.1
60°	396.8	400.3	400.3	403.9	400.3	400.3	396.8	403.9	403.9	407.5	407.5
62.5°	293.1	303.8	296.6	303.8	296.6	303.8	293.1	296.6	296.6	300.3	303.8
65°	189.5	189.5	189.5	193.0	189.5	189.5	189.5	193.0	196.6	193.0	203.8
67.5°	128.7	132.3	139.5	135.8	139.5	132.3	128.7	132.3	132.3	143.0	139.5
70°	103.7	93.0	93.0	103.7	93.0	93.0	103.7	96.5	93.0	100.0	96.5
72.5°	60.8	53.6	60.8	60.8	60.8	53.6	60.8	53.6	57.2	57.2	64.3
75°	32.2	28.5	25.0	35.8	25.0	28.5	32.2	32.2	32.2	32.2	35.8
77.5°	21.5	17.8	25.0	25.0	25.0	17.8	21.5	17.8	21.5	17.8	21.5
80°	10.7	14.3	10.7	17.8	10.7	14.3	10.7	17.8	10.7	14.3	14.3
82.5°	3.5	7.2	7.2	7.2	7.2	7.2	3.5	3.5	7.2	7.2	3.5
85°	0.0	7.2	3.5	3.5	3.5	7.2	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.0	0.0	3.5	0.0	0.0	3.5	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: P248565

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5
2.5°	7395.6	7384.8	7388.5	7367.0	7367.0	7359.8	7363.5	7345.5	7338.5	7331.3	7342.0
5°	7502.8	7485.0	7470.6	7438.5	7420.6	7399.2	7388.5	7359.8	7334.8	7313.3	7309.8
7.5°	7588.6	7549.3	7524.3	7481.3	7449.3	7424.2	7388.5	7349.1	7317.0	7288.3	7267.0
10°	7624.3	7585.1	7545.8	7492.1	7456.3	7409.8	7374.1	7324.1	7281.2	7242.0	7216.8
12.5°	7627.9	7577.9	7542.1	7481.3	7434.8	7384.8	7345.5	7288.3	7238.3	7199.0	7159.7
15°	7595.8	7549.3	7506.3	7442.1	7395.6	7349.1	7302.7	7242.0	7195.5	7149.0	7120.4
17.5°	7524.3	7481.3	7431.3	7370.5	7327.7	7284.8	7234.7	7184.7	7131.0	7081.0	7045.2
20°	7431.3	7384.8	7342.0	7281.2	7245.5	7199.0	7152.5	7098.9	7056.0	7006.0	6966.7
22.5°	7292.0	7249.0	7209.7	7174.0	7116.8	7081.0	7048.9	6988.2	6945.2	6898.7	6855.9
25°	7091.7	7048.9	7016.7	6973.7	6948.7	6909.4	6877.2	6823.7	6784.4	6741.4	6705.7
27.5°	6762.9	6737.9	6719.9	6694.9	6673.6	6655.7	6637.8	6594.9	6566.3	6527.1	6491.3
30°	6269.6	6266.1	6255.3	6244.6	6258.8	6258.8	6258.8	6251.8	6226.8	6198.1	6173.1
32.5°	5636.9	5644.1	5658.4	5669.2	5697.7	5729.9	5758.5	5772.7	5772.7	5754.9	5744.2
35°	4882.8	4893.5	4915.0	4943.5	4979.3	5018.6	5082.8	5097.3	5107.9	5107.9	5093.6
37.5°	4099.9	4096.4	4117.8	4142.8	4164.3	4192.9	4239.4	4250.1	4267.9	4260.8	4246.4
40°	3338.5	3320.7	3313.5	3320.7	3345.7	3335.0	3345.7	3338.5	3338.5	3313.5	3313.5
42.5°	2634.3	2613.0	2598.6	2588.0	2588.0	2562.8	2545.0	2527.2	2516.5	2498.5	2495.0
45°	2030.4	2005.2	1987.4	1980.2	1969.6	1937.4	1915.9	1894.4	1869.4	1862.4	1865.9
47.5°	1576.3	1551.3	1544.1	1526.3	1508.4	1490.6	1476.3	1451.3	1447.6	1433.3	1447.6
50°	1215.3	1208.2	1197.5	1190.3	1179.5	1165.3	1151.0	1136.7	1129.5	1129.5	1133.0
52.5°	943.7	947.2	936.5	925.7	918.7	918.7	900.7	897.2	897.2	882.9	897.2
55°	722.1	718.4	722.1	714.9	714.9	704.2	704.2	693.4	693.4	682.7	689.9
57.5°	529.1	536.1	529.1	532.6	539.8	529.1	525.4	514.7	521.9	514.7	518.3
60°	411.1	411.1	411.1	407.5	407.5	403.9	403.9	400.3	400.3	393.1	400.3
62.5°	303.8	307.4	307.4	307.4	311.0	307.4	303.8	307.4	303.8	303.8	307.4
65°	200.2	203.8	203.8	200.2	207.3	200.2	203.8	207.3	210.8	207.3	210.8
67.5°	135.8	135.8	139.5	143.0	139.5	143.0	146.5	143.0	146.5	153.7	146.5
70°	100.0	103.7	103.7	100.0	96.5	100.0	96.5	107.3	107.3	107.3	114.3
72.5°	64.3	64.3	60.8	60.8	60.8	60.8	60.8	71.5	64.3	60.8	68.0
75°	35.8	39.3	39.3	28.5	32.2	39.3	28.5	32.2	43.0	35.8	43.0
77.5°	21.5	21.5	21.5	21.5	21.5	21.5	28.5	25.0	25.0	25.0	28.5
80°	17.8	14.3	14.3	10.7	14.3	14.3	14.3	21.5	17.8	17.8	21.5
82.5°	7.2	7.2	3.5	0.0	7.2	7.2	7.2	7.2	7.2	7.2	14.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	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: P248565

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5
2.5°	7313.3	7313.3	7309.8	7302.7	7288.3	7288.3	7284.8	7274.0	7267.0	7263.3	7263.3
5°	7277.6	7263.3	7249.0	7209.7	7209.7	7202.5	7181.2	7166.8	7159.7	7141.8	7134.7
7.5°	7245.5	7202.5	7177.5	7152.5	7120.4	7106.0	7081.0	7070.3	7045.2	7027.4	7016.7
10°	7166.8	7138.2	7106.0	7066.7	7041.7	7013.2	6984.5	6963.1	6930.9	6913.0	6898.7
12.5°	7113.2	7070.3	7041.7	6998.8	6955.9	6930.9	6891.6	6866.6	6834.4	6798.7	6777.2
15°	7063.2	7016.7	6977.4	6930.9	6884.4	6855.9	6809.4	6780.9	6734.4	6698.6	6673.6
17.5°	6988.2	6948.7	6905.9	6848.7	6805.9	6770.1	6719.9	6684.3	6641.4	6594.9	6569.9
20°	6909.4	6863.0	6820.1	6762.9	6719.9	6677.1	6627.1	6587.8	6537.7	6494.8	6466.3
22.5°	6805.9	6752.2	6716.4	6659.2	6609.2	6562.8	6516.3	6469.8	6423.3	6387.6	6355.4
25°	6655.7	6598.4	6559.1	6512.6	6466.3	6430.5	6373.3	6344.8	6298.3	6266.1	6233.8
27.5°	6441.1	6398.3	6362.6	6316.1	6276.8	6248.3	6205.3	6176.7	6137.3	6108.8	6083.8
30°	6126.7	6091.0	6058.8	6012.3	5983.7	5958.7	5919.3	5894.3	5865.7	5833.5	5826.4
32.5°	5704.9	5676.2	5644.1	5611.9	5590.4	5576.2	5543.9	5529.7	5501.1	5483.2	5465.4
35°	5068.6	5043.6	5025.8	5011.5	5004.3	5007.8	5000.7	5015.0	5022.1	5018.6	5022.1
37.5°	4235.8	4221.4	4228.6	4239.4	4275.1	4321.6	4364.4	4428.7	4471.7	4514.6	4553.9
40°	3306.4	3317.2	3345.7	3410.0	3503.0	3606.7	3703.2	3824.8	3946.3	4032.1	4110.6
42.5°	2495.0	2527.2	2598.6	2691.6	2831.0	2984.6	3134.9	3313.5	3460.2	3603.0	3703.2
45°	1876.6	1919.4	2012.4	2141.2	2294.8	2473.5	2663.0	2863.1	3038.4	3184.9	3295.7
47.5°	1462.0	1501.3	1594.3	1730.1	1919.4	2105.4	2302.0	2509.3	2691.6	2834.6	2931.1
50°	1154.5	1204.5	1286.8	1429.8	1619.3	1815.9	2019.6	2223.3	2395.0	2516.5	2602.3
52.5°	907.9	954.4	1033.0	1183.2	1376.2	1572.8	1762.2	1962.4	2112.5	2230.5	2287.7
55°	704.2	747.1	829.2	954.4	1136.7	1329.7	1519.1	1690.8	1830.1	1915.9	1969.6
57.5°	536.1	568.4	625.6	750.6	915.1	1093.8	1254.7	1426.3	1533.5	1594.3	1629.9
60°	407.5	432.6	493.3	589.8	739.9	893.7	1029.5	1158.2	1244.0	1294.0	1329.7
62.5°	307.4	336.0	378.9	461.1	575.4	700.6	814.9	911.5	983.0	1015.2	1040.2
65°	210.8	232.3	264.5	328.8	425.3	514.7	604.1	675.6	722.1	757.9	772.1
67.5°	157.3	171.6	189.5	239.5	307.4	378.9	439.6	489.6	539.8	554.1	579.1
70°	118.0	128.7	146.5	182.3	221.6	271.6	321.8	350.3	386.1	411.1	418.3
72.5°	75.0	78.6	96.5	118.0	150.1	182.3	214.5	239.5	261.0	275.3	282.3
75°	43.0	64.3	64.3	85.8	107.3	121.5	143.0	160.8	171.6	182.3	182.3
77.5°	28.5	39.3	43.0	53.6	64.3	82.2	100.0	110.8	121.5	125.1	125.1
80°	25.0	28.5	28.5	39.3	46.5	60.8	71.5	75.0	82.2	85.8	93.0
82.5°	10.7	14.3	17.8	28.5	32.2	32.2	43.0	46.5	53.6	57.2	57.2
85°	3.5	7.2	7.2	10.7	17.8	21.5	25.0	28.5	32.2	32.2	35.8
87.5°	3.5	3.5	0.0	3.5	7.2	7.2	14.3	14.3	14.3	21.5	21.5
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: P248565

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5	7320.5
2.5°	7256.2	7259.8	7245.5	7242.0	7234.7	7238.3	7245.5
5°	7124.0	7127.5	7113.2	7098.9	7098.9	7095.3	7098.9
7.5°	6998.8	7002.4	6981.0	6973.7	6959.5	6963.1	6963.1
10°	6873.7	6873.7	6841.6	6837.9	6827.2	6823.7	6823.7
12.5°	6752.2	6741.4	6716.4	6702.1	6709.4	6687.9	6687.9
15°	6644.9	6627.1	6594.9	6584.1	6566.3	6559.1	6559.1
17.5°	6534.1	6519.9	6491.3	6469.8	6448.3	6444.8	6448.3
20°	6426.9	6412.6	6376.8	6362.6	6344.8	6344.8	6337.6
22.5°	6319.6	6305.3	6273.3	6262.5	6237.5	6237.5	6241.0
25°	6208.8	6198.1	6162.3	6155.3	6151.7	6137.3	6144.5
27.5°	6058.8	6051.5	6023.0	6012.3	5998.0	5994.5	6001.5
30°	5783.5	5772.7	5751.4	5740.7	5715.6	5719.2	5726.2
32.5°	5440.4	5426.1	5397.4	5386.7	5365.3	5358.1	5361.7
35°	5011.5	5000.7	4975.7	4975.7	4954.3	4947.0	4954.3
37.5°	4575.4	4586.0	4575.4	4586.0	4575.4	4571.7	4575.4
40°	4164.3	4203.6	4210.7	4250.1	4235.8	4257.2	4253.6
42.5°	3771.0	3835.3	3860.5	3892.6	3885.5	3899.8	3910.5
45°	3374.2	3427.9	3453.0	3474.4	3478.0	3485.2	3488.7
47.5°	2998.9	3041.9	3045.4	3070.4	3066.9	3066.9	3077.6
50°	2648.8	2677.3	2684.4	2702.3	2688.0	2680.8	2684.4
52.5°	2323.5	2352.0	2344.8	2352.0	2334.2	2327.0	2330.5
55°	1990.9	2005.2	2005.2	2005.2	1983.9	1983.9	1983.9
57.5°	1651.4	1655.0	1647.8	1651.4	1647.8	1626.4	1622.8
60°	1340.5	1340.5	1336.8	1340.5	1329.7	1319.0	1319.0
62.5°	1047.3	1054.5	1068.7	1054.5	1047.3	1054.5	1043.7
65°	782.9	797.1	793.5	800.7	797.1	797.1	789.9
67.5°	589.8	593.4	596.9	600.6	600.6	600.6	600.6
70°	432.6	443.3	439.6	439.6	439.6	439.6	461.1
72.5°	289.5	303.8	300.3	307.4	307.4	314.6	307.4
75°	196.6	210.8	203.8	214.5	210.8	203.8	221.6
77.5°	132.3	139.5	143.0	146.5	143.0	139.5	143.0
80°	93.0	100.0	96.5	100.0	100.0	100.0	103.7
82.5°	57.2	68.0	64.3	68.0	64.3	68.0	68.0
85°	39.3	43.0	35.8	43.0	39.3	39.3	46.5
87.5°	25.0	21.5	21.5	25.0	21.5	25.0	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)