

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: P248789

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBSWOGPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248789  
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: LSR8B100D010 EC8B100840 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10001.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 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

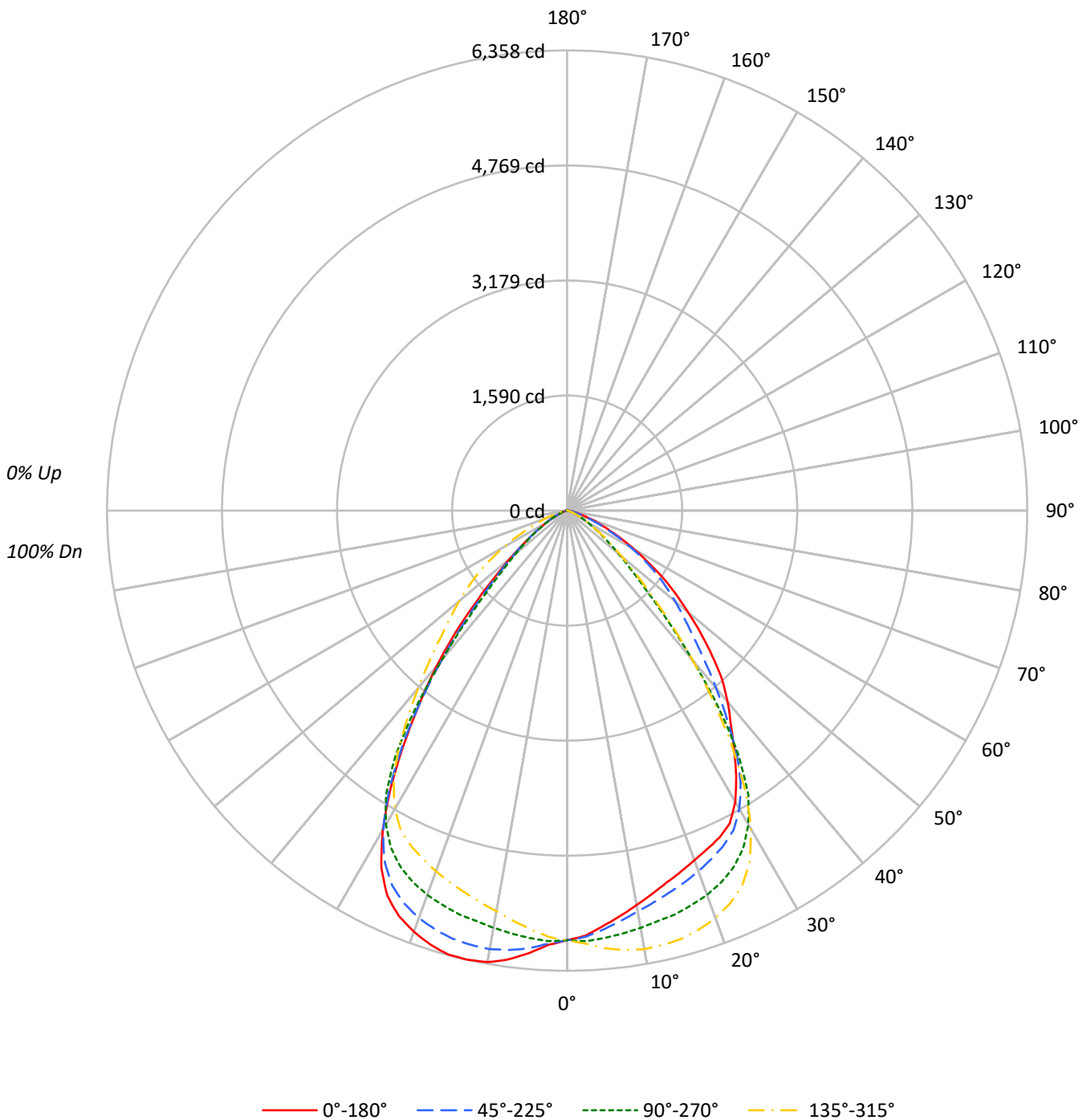
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	183084	183084	183084	183084
5°	178221	183515	190067	183515
10°	173290	183275	198343	183275
15°	169830	184362	202686	184362
20°	168671	185416	203206	185416
25°	169559	185044	199939	185044
30°	165365	178269	181473	178269
35°	151258	155512	147550	155512
40°	138872	108178	112969	108178
45°	123392	65994	76360	65994
50°	104442	44082	48956	44082
55°	86502	30080	31795	30080
60°	65977	20025	20204	20025
65°	46749	12477	11426	12477
70°	33720	8358	7582	8358
75°	21410	4146	3455	4146
80°	14934	3090	2557	3090
85°	13339	0	1026	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.1	5.7
10°-20°	1636.5	16.4
20°-30°	2478.0	24.8
30°-40°	2483.5	24.8
40°-50°	1559.5	15.6
50°-60°	831.1	8.3
60°-70°	341.8	3.4
70°-80°	90.3	0.9
80°-90°	15.3	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°	4679.6	46.8
0°-40°	7163.1	71.6
0°-60°	9553.7	95.5
0°-90°	10001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5937	5937	5937	5937	5937	
5°	5758	5929	6140	5929	5758	543
15°	5320	5775	6349	5775	5320	1505
25°	4984	5439	5876	5439	4984	2286
35°	4018	4131	3920	4131	4018	2517
45°	2830	1513	1751	1513	2830	2176
55°	1609	560	591	560	1609	1435
65°	641	171	157	171	641	665
75°	180	35	29	35	180	204
85°	38	0	3	0	38	41
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°	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3
2.5°	5876.4	5870.6	5867.7	5873.6	5876.4	5888.0	5885.1	5890.9	5890.9	5893.8	5899.6
5°	5757.6	5754.6	5757.6	5757.6	5769.1	5780.7	5777.9	5786.6	5792.3	5806.9	5812.6
7.5°	5647.4	5647.4	5644.4	5656.0	5661.9	5679.3	5676.3	5690.9	5699.6	5714.0	5734.3
10°	5534.3	5534.3	5537.2	5545.9	5548.9	5574.9	5574.9	5595.2	5606.7	5621.3	5647.4
12.5°	5424.2	5424.2	5441.6	5435.7	5447.3	5467.6	5476.3	5496.6	5514.0	5543.0	5569.2
15°	5319.8	5319.8	5325.6	5340.0	5348.8	5374.9	5389.3	5412.6	5432.9	5461.9	5499.6
17.5°	5229.9	5227.0	5229.9	5247.3	5264.7	5287.9	5299.5	5328.5	5348.8	5386.5	5421.3
20°	5140.0	5145.9	5145.9	5160.3	5171.9	5200.9	5212.5	5244.5	5267.6	5302.3	5343.0
22.5°	5061.8	5058.9	5058.9	5079.2	5087.9	5113.9	5125.5	5154.5	5180.6	5209.6	5247.3
25°	4983.5	4977.6	4989.3	4992.2	4997.9	5026.9	5035.6	5055.9	5082.1	5108.2	5145.9
27.5°	4867.5	4861.8	4864.6	4876.2	4884.9	4908.1	4913.9	4934.2	4954.5	4977.6	5009.6
30°	4644.2	4638.5	4635.6	4655.9	4664.6	4681.9	4690.7	4725.5	4731.2	4757.4	4780.5
32.5°	4348.5	4345.7	4351.5	4368.8	4377.5	4400.8	4412.4	4432.7	4447.1	4461.7	4484.8
35°	4018.1	4012.3	4018.1	4035.5	4035.5	4055.8	4064.5	4073.1	4070.3	4073.1	4067.4
37.5°	3710.9	3707.9	3710.9	3719.4	3710.9	3719.4	3710.9	3693.4	3661.6	3626.7	3591.9
40°	3449.9	3452.8	3435.4	3447.0	3415.0	3409.3	3377.5	3333.9	3270.2	3200.6	3102.0
42.5°	3171.6	3162.9	3151.3	3157.1	3131.0	3110.6	3058.5	3003.5	2922.2	2806.4	2687.4
45°	2829.5	2826.6	2820.8	2817.9	2800.5	2780.2	2736.7	2672.9	2583.1	2464.2	2322.1
47.5°	2496.1	2487.4	2487.4	2490.3	2470.0	2467.1	2432.3	2377.2	2299.0	2183.0	2035.1
50°	2177.1	2174.3	2180.1	2191.7	2177.1	2171.4	2148.3	2110.6	2041.0	1942.4	1803.2
52.5°	1890.2	1887.3	1893.1	1907.6	1901.7	1907.6	1884.4	1855.4	1809.0	1713.3	1591.6
55°	1609.0	1609.0	1609.0	1626.3	1626.3	1626.3	1614.7	1597.4	1553.9	1484.3	1371.3
57.5°	1316.2	1319.1	1336.5	1339.3	1336.5	1342.3	1339.3	1321.9	1293.0	1243.8	1156.8
60°	1069.8	1069.8	1078.5	1087.2	1084.2	1087.2	1087.2	1078.5	1049.5	1008.9	939.3
62.5°	846.5	855.2	849.4	855.2	866.8	855.2	849.4	843.6	823.4	797.2	739.2
65°	640.7	646.5	646.5	649.4	643.5	646.5	634.9	626.2	614.7	585.7	548.0
67.5°	487.1	487.1	487.1	487.1	484.1	481.2	478.4	469.7	449.4	437.8	397.1
70°	374.0	356.6	356.6	356.6	356.6	359.5	350.8	339.2	333.4	313.1	284.1
72.5°	249.3	255.1	249.3	249.3	243.5	246.4	234.8	229.0	223.3	211.7	194.3
75°	179.7	165.3	171.0	174.0	165.3	171.0	159.4	147.8	147.8	139.1	130.4
77.5°	116.0	113.1	116.0	118.9	116.0	113.1	107.3	101.4	101.4	98.6	89.9
80°	84.1	81.1	81.1	81.1	78.3	81.1	75.4	75.4	69.6	66.7	60.9
82.5°	55.1	55.1	52.1	55.1	52.1	55.1	46.4	46.4	46.4	43.4	37.7
85°	37.7	31.9	31.9	34.8	29.0	34.8	31.9	29.0	26.1	26.1	23.1
87.5°	17.4	20.3	17.4	20.3	17.4	17.4	20.3	17.4	17.4	11.6	11.6
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°	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3
2.5°	5908.3	5911.1	5911.1	5922.8	5928.6	5931.4	5931.4	5954.7	5946.0	5951.8	5957.6
5°	5824.3	5841.6	5847.4	5847.4	5879.3	5890.9	5902.4	5928.6	5931.4	5948.9	5969.1
7.5°	5743.0	5763.3	5775.0	5801.0	5821.3	5841.6	5876.4	5893.8	5911.1	5934.4	5960.4
10°	5664.7	5688.0	5711.2	5731.4	5763.3	5789.4	5812.6	5853.2	5873.6	5905.4	5940.1
12.5°	5589.4	5621.3	5641.6	5676.3	5711.2	5734.3	5769.1	5806.9	5838.7	5870.6	5911.1
15°	5522.7	5560.4	5583.6	5621.3	5659.0	5690.9	5728.6	5775.0	5798.1	5835.8	5873.6
17.5°	5450.2	5490.9	5519.9	5554.6	5601.0	5635.7	5667.7	5714.0	5743.0	5783.6	5827.1
20°	5374.9	5415.5	5450.2	5485.0	5531.4	5566.2	5603.9	5650.3	5682.2	5722.7	5757.6
22.5°	5285.0	5322.7	5360.3	5400.9	5447.3	5476.3	5519.9	5560.4	5595.2	5632.9	5667.7
25°	5169.0	5215.5	5244.5	5282.0	5319.8	5351.6	5398.0	5438.6	5467.6	5502.4	5534.3
27.5°	5032.8	5067.6	5090.8	5122.6	5160.3	5189.3	5224.1	5264.7	5293.7	5325.6	5348.8
30°	4800.8	4832.8	4853.1	4876.2	4913.9	4940.1	4969.1	5006.6	5026.9	5050.2	5070.5
32.5°	4496.4	4522.5	4534.1	4551.5	4577.7	4603.7	4626.9	4658.8	4667.5	4681.9	4681.9
35°	4055.8	4061.6	4058.7	4064.5	4076.1	4090.6	4110.8	4131.1	4142.7	4142.7	4134.1
37.5°	3539.7	3505.0	3467.3	3438.3	3429.6	3423.8	3435.4	3444.0	3455.7	3461.5	3447.0
40°	3003.5	2925.2	2841.1	2765.7	2713.5	2690.4	2681.7	2687.4	2687.4	2707.7	2707.7
42.5°	2542.5	2420.7	2296.1	2183.0	2107.6	2049.7	2023.6	2023.6	2026.4	2041.0	2049.7
45°	2159.8	2006.1	1861.2	1736.6	1632.2	1556.8	1522.0	1513.3	1510.5	1516.2	1536.5
47.5°	1867.0	1707.6	1556.8	1403.2	1293.0	1217.6	1185.8	1174.1	1162.5	1174.1	1177.1
50°	1638.0	1472.7	1313.3	1159.6	1043.6	976.9	936.4	918.9	916.1	916.1	921.9
52.5°	1429.2	1275.6	1116.2	959.6	837.8	774.1	736.4	727.7	716.1	727.7	727.7
55°	1232.1	1078.5	921.9	774.1	672.5	605.9	571.1	559.5	553.7	562.4	562.4
57.5°	1017.6	887.1	742.2	608.8	507.4	461.0	434.8	420.4	417.4	423.3	417.4
60°	834.9	724.8	600.1	478.4	400.1	350.8	330.5	324.7	318.8	324.7	324.7
62.5°	661.0	568.2	466.7	374.0	307.3	272.5	249.3	249.3	246.4	246.4	249.3
65°	490.0	417.4	345.0	266.7	214.6	188.4	171.0	171.0	168.1	171.0	168.1
67.5°	356.6	307.3	249.3	194.3	153.7	139.1	127.6	118.9	124.7	118.9	116.0
70°	261.0	220.3	179.7	147.8	118.9	104.4	95.7	92.7	87.0	87.0	87.0
72.5°	174.0	147.8	121.7	95.7	78.3	63.7	60.9	55.1	49.3	52.1	58.0
75°	116.0	98.6	87.0	69.6	52.1	52.1	34.8	34.8	29.0	34.8	26.1
77.5°	81.1	66.7	52.1	43.4	34.8	31.9	23.1	23.1	20.3	20.3	20.3
80°	58.0	49.3	37.7	31.9	23.1	23.1	20.3	17.4	14.4	14.4	17.4
82.5°	34.8	26.1	26.1	23.1	14.4	11.6	8.7	11.6	5.8	5.8	5.8
85°	20.3	17.4	14.4	8.7	5.8	5.8	2.9	0.0	2.9	2.9	0.0
87.5°	11.6	5.8	5.8	2.9	0.0	2.9	2.9	0.0	0.0	0.0	5.8
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°	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3
2.5°	5972.1	5969.1	5975.0	5975.0	5992.4	5989.4	5998.1	5998.1	5992.4	5995.3	6006.8
5°	5992.4	6001.1	6018.4	6033.0	6059.0	6070.7	6085.1	6099.7	6102.5	6111.3	6120.0
7.5°	5992.4	6021.4	6041.7	6067.7	6102.5	6122.8	6154.7	6180.8	6192.4	6206.8	6224.3
10°	5980.7	6009.7	6047.4	6076.4	6120.0	6151.8	6183.7	6224.3	6241.7	6264.8	6288.1
12.5°	5957.6	5989.4	6030.0	6067.7	6117.0	6146.0	6186.6	6224.3	6250.4	6282.3	6308.4
15°	5922.8	5960.4	5998.1	6035.8	6088.0	6122.8	6160.5	6204.0	6230.1	6264.8	6288.1
17.5°	5867.7	5908.3	5943.1	5977.8	6027.1	6067.7	6102.5	6143.1	6169.3	6198.2	6230.1
20°	5801.0	5838.7	5876.4	5905.4	5954.7	5989.4	6027.1	6064.8	6085.1	6091.0	6140.3
22.5°	5717.0	5743.0	5772.0	5818.4	5847.4	5879.3	5914.1	5948.9	5969.1	6001.1	6018.4
25°	5577.7	5603.9	5635.7	5656.0	5690.9	5717.0	5751.7	5789.4	5801.0	5824.3	5841.6
27.5°	5383.6	5398.0	5412.6	5429.9	5450.2	5464.7	5485.0	5502.4	5514.0	5525.6	5537.2
30°	5076.2	5076.2	5076.2	5064.6	5073.3	5082.1	5084.9	5082.1	5082.1	5079.2	5079.2
32.5°	4670.4	4647.2	4621.1	4597.9	4589.2	4577.7	4571.8	4563.1	4548.7	4539.9	4542.8
35°	4122.4	4070.3	4038.4	4009.4	3986.3	3968.8	3960.1	3951.4	3948.6	3937.0	3925.3
37.5°	3438.3	3400.6	3377.5	3360.0	3339.7	3322.3	3325.2	3328.2	3336.8	3331.0	3333.9
40°	2713.5	2704.8	2713.5	2693.2	2687.4	2693.2	2707.7	2728.1	2739.6	2751.2	2771.5
42.5°	2064.1	2078.6	2099.0	2099.0	2107.6	2119.3	2136.6	2168.5	2185.8	2206.1	2229.4
45°	1553.9	1571.3	1597.4	1606.0	1611.9	1626.3	1646.7	1672.7	1684.3	1701.7	1722.0
47.5°	1197.3	1208.9	1223.3	1237.9	1252.3	1258.2	1278.5	1278.5	1293.0	1304.6	1310.3
50°	933.5	945.1	956.7	965.4	971.2	979.9	985.6	994.4	997.2	1003.1	1005.9
52.5°	730.5	745.1	745.1	750.8	759.5	768.2	765.4	768.2	771.1	771.1	779.8
55°	571.1	571.1	579.8	579.8	585.7	582.7	585.7	585.7	585.7	585.7	588.5
57.5°	426.1	429.1	437.8	432.0	429.1	434.8	429.1	434.8	432.0	437.8	429.1
60°	327.6	327.6	330.5	330.5	333.4	333.4	333.4	330.5	330.5	327.6	327.6
62.5°	246.4	249.3	252.3	249.3	249.3	249.3	246.4	246.4	243.5	240.6	240.6
65°	165.3	162.4	168.1	162.4	165.3	165.3	162.4	165.3	156.6	159.4	156.6
67.5°	118.9	116.0	113.1	116.0	113.1	110.1	110.1	113.1	116.0	107.3	107.3
70°	78.3	81.1	78.3	81.1	84.1	84.1	81.1	78.3	81.1	75.4	78.3
72.5°	49.3	49.3	49.3	49.3	49.3	52.1	52.1	52.1	46.4	46.4	43.4
75°	23.1	31.9	26.1	23.1	31.9	31.9	29.0	29.0	26.1	26.1	26.1
77.5°	23.1	17.4	17.4	17.4	17.4	17.4	17.4	17.4	14.4	17.4	14.4
80°	11.6	11.6	11.6	8.7	11.6	11.6	14.4	11.6	11.6	8.7	14.4
82.5°	5.8	5.8	5.8	0.0	2.9	5.8	5.8	2.9	5.8	5.8	2.9
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: P248789

CATALOG NUMBER: LSR8B100D010 EC8B100840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3
2.5°	6004.0	6001.1	6004.0	6006.8	6004.0	6001.1	6004.0	6006.8	5995.3	5992.4	5998.1
5°	6131.5	6131.5	6137.3	6140.3	6137.3	6131.5	6131.5	6120.0	6111.3	6102.5	6099.7
7.5°	6241.7	6247.5	6253.3	6256.1	6253.3	6247.5	6241.7	6224.3	6206.8	6192.4	6180.8
10°	6308.4	6317.1	6328.7	6334.4	6328.7	6317.1	6308.4	6288.1	6264.8	6241.7	6224.3
12.5°	6337.4	6346.1	6360.5	6357.7	6360.5	6346.1	6337.4	6308.4	6282.3	6250.4	6224.3
15°	6317.1	6328.7	6343.1	6349.0	6343.1	6328.7	6317.1	6288.1	6264.8	6230.1	6204.0
17.5°	6253.3	6270.7	6279.4	6288.1	6279.4	6270.7	6253.3	6230.1	6198.2	6169.3	6143.1
20°	6166.3	6178.0	6189.5	6192.4	6189.5	6178.0	6166.3	6140.3	6091.0	6085.1	6064.8
22.5°	6041.7	6050.4	6076.4	6067.7	6076.4	6050.4	6041.7	6018.4	6001.1	5969.1	5948.9
25°	5861.9	5870.6	5873.6	5876.4	5873.6	5870.6	5861.9	5841.6	5824.3	5801.0	5789.4
27.5°	5551.7	5551.7	5557.5	5560.4	5557.5	5551.7	5551.7	5537.2	5525.6	5514.0	5502.4
30°	5082.1	5082.1	5082.1	5096.6	5082.1	5082.1	5082.1	5079.2	5079.2	5082.1	5082.1
32.5°	4539.9	4534.1	4528.4	4534.1	4528.4	4534.1	4539.9	4542.8	4539.9	4548.7	4563.1
35°	3925.3	3922.4	3931.1	3919.6	3931.1	3922.4	3925.3	3925.3	3937.0	3948.6	3951.4
37.5°	3336.8	3331.0	3342.6	3331.0	3342.6	3331.0	3336.8	3333.9	3331.0	3336.8	3328.2
40°	2777.4	2783.1	2783.1	2806.4	2783.1	2783.1	2777.4	2771.5	2751.2	2739.6	2728.1
42.5°	2241.0	2258.4	2252.6	2270.0	2252.6	2258.4	2241.0	2229.4	2206.1	2185.8	2168.5
45°	1733.6	1745.3	1745.3	1751.0	1745.3	1745.3	1733.6	1722.0	1701.7	1684.3	1672.7
47.5°	1330.6	1330.6	1330.6	1333.6	1330.6	1330.6	1330.6	1310.3	1304.6	1293.0	1278.5
50°	1011.8	1014.6	1017.6	1020.5	1017.6	1014.6	1011.8	1005.9	1003.1	997.2	994.4
52.5°	776.9	779.8	774.1	779.8	774.1	779.8	776.9	779.8	771.1	771.1	768.2
55°	588.5	585.7	588.5	591.4	588.5	585.7	588.5	588.5	585.7	585.7	585.7
57.5°	432.0	426.1	426.1	426.1	426.1	426.1	432.0	429.1	437.8	432.0	434.8
60°	321.8	324.7	324.7	327.6	324.7	324.7	321.8	327.6	327.6	330.5	330.5
62.5°	237.7	246.4	240.6	246.4	240.6	246.4	237.7	240.6	240.6	243.5	246.4
65°	153.7	153.7	153.7	156.6	153.7	153.7	153.7	156.6	159.4	156.6	165.3
67.5°	104.4	107.3	113.1	110.1	113.1	107.3	104.4	107.3	107.3	116.0	113.1
70°	84.1	75.4	75.4	84.1	75.4	75.4	84.1	78.3	75.4	81.1	78.3
72.5°	49.3	43.4	49.3	49.3	49.3	43.4	49.3	43.4	46.4	46.4	52.1
75°	26.1	23.1	20.3	29.0	20.3	23.1	26.1	26.1	26.1	26.1	29.0
77.5°	17.4	14.4	20.3	20.3	20.3	14.4	17.4	14.4	17.4	14.4	17.4
80°	8.7	11.6	8.7	14.4	8.7	11.6	8.7	14.4	8.7	11.6	11.6
82.5°	2.9	5.8	5.8	5.8	5.8	5.8	2.9	2.9	5.8	5.8	2.9
85°	0.0	5.8	2.9	2.9	2.9	5.8	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.0	0.0	2.9	0.0	0.0	2.9	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: P248789

CATALOG NUMBER: LSR8B100D010 EC8B100840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3
2.5°	5998.1	5989.4	5992.4	5975.0	5975.0	5969.1	5972.1	5957.6	5951.8	5946.0	5954.7
5°	6085.1	6070.7	6059.0	6033.0	6018.4	6001.1	5992.4	5969.1	5948.9	5931.4	5928.6
7.5°	6154.7	6122.8	6102.5	6067.7	6041.7	6021.4	5992.4	5960.4	5934.4	5911.1	5893.8
10°	6183.7	6151.8	6120.0	6076.4	6047.4	6009.7	5980.7	5940.1	5905.4	5873.6	5853.2
12.5°	6186.6	6146.0	6117.0	6067.7	6030.0	5989.4	5957.6	5911.1	5870.6	5838.7	5806.9
15°	6160.5	6122.8	6088.0	6035.8	5998.1	5960.4	5922.8	5873.6	5835.8	5798.1	5775.0
17.5°	6102.5	6067.7	6027.1	5977.8	5943.1	5908.3	5867.7	5827.1	5783.6	5743.0	5714.0
20°	6027.1	5989.4	5954.7	5905.4	5876.4	5838.7	5801.0	5757.6	5722.7	5682.2	5650.3
22.5°	5914.1	5879.3	5847.4	5818.4	5772.0	5743.0	5717.0	5667.7	5632.9	5595.2	5560.4
25°	5751.7	5717.0	5690.9	5656.0	5635.7	5603.9	5577.7	5534.3	5502.4	5467.6	5438.6
27.5°	5485.0	5464.7	5450.2	5429.9	5412.6	5398.0	5383.6	5348.8	5325.6	5293.7	5264.7
30°	5084.9	5082.1	5073.3	5064.6	5076.2	5076.2	5076.2	5070.5	5050.2	5026.9	5006.6
32.5°	4571.8	4577.7	4589.2	4597.9	4621.1	4647.2	4670.4	4681.9	4681.9	4667.5	4658.8
35°	3960.1	3968.8	3986.3	4009.4	4038.4	4070.3	4122.4	4134.1	4142.7	4142.7	4131.1
37.5°	3325.2	3322.3	3339.7	3360.0	3377.5	3400.6	3438.3	3447.0	3461.5	3455.7	3444.0
40°	2707.7	2693.2	2687.4	2693.2	2713.5	2704.8	2713.5	2707.7	2707.7	2687.4	2687.4
42.5°	2136.6	2119.3	2107.6	2099.0	2099.0	2078.6	2064.1	2049.7	2041.0	2026.4	2023.6
45°	1646.7	1626.3	1611.9	1606.0	1597.4	1571.3	1553.9	1536.5	1516.2	1510.5	1513.3
47.5°	1278.5	1258.2	1252.3	1237.9	1223.3	1208.9	1197.3	1177.1	1174.1	1162.5	1174.1
50°	985.6	979.9	971.2	965.4	956.7	945.1	933.5	921.9	916.1	916.1	918.9
52.5°	765.4	768.2	759.5	750.8	745.1	745.1	730.5	727.7	727.7	716.1	727.7
55°	585.7	582.7	585.7	579.8	579.8	571.1	571.1	562.4	562.4	553.7	559.5
57.5°	429.1	434.8	429.1	432.0	437.8	429.1	426.1	417.4	423.3	417.4	420.4
60°	333.4	333.4	333.4	330.5	330.5	327.6	327.6	324.7	324.7	318.8	324.7
62.5°	246.4	249.3	249.3	249.3	252.3	249.3	246.4	249.3	246.4	246.4	249.3
65°	162.4	165.3	165.3	162.4	168.1	162.4	165.3	168.1	171.0	168.1	171.0
67.5°	110.1	110.1	113.1	116.0	113.1	116.0	118.9	116.0	118.9	124.7	118.9
70°	81.1	84.1	84.1	81.1	78.3	81.1	78.3	87.0	87.0	87.0	92.7
72.5°	52.1	52.1	49.3	49.3	49.3	49.3	49.3	58.0	52.1	49.3	55.1
75°	29.0	31.9	31.9	23.1	26.1	31.9	23.1	26.1	34.8	29.0	34.8
77.5°	17.4	17.4	17.4	17.4	17.4	17.4	23.1	20.3	20.3	20.3	23.1
80°	14.4	11.6	11.6	8.7	11.6	11.6	11.6	17.4	14.4	14.4	17.4
82.5°	5.8	5.8	2.9	0.0	5.8	5.8	5.8	5.8	5.8	5.8	11.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	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: P248789

CATALOG NUMBER: LSR8B100D010 EC8B100840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3
2.5°	5931.4	5931.4	5928.6	5922.8	5911.1	5911.1	5908.3	5899.6	5893.8	5890.9	5890.9
5°	5902.4	5890.9	5879.3	5847.4	5847.4	5841.6	5824.3	5812.6	5806.9	5792.3	5786.6
7.5°	5876.4	5841.6	5821.3	5801.0	5775.0	5763.3	5743.0	5734.3	5714.0	5699.6	5690.9
10°	5812.6	5789.4	5763.3	5731.4	5711.2	5688.0	5664.7	5647.4	5621.3	5606.7	5595.2
12.5°	5769.1	5734.3	5711.2	5676.3	5641.6	5621.3	5589.4	5569.2	5543.0	5514.0	5496.6
15°	5728.6	5690.9	5659.0	5621.3	5583.6	5560.4	5522.7	5499.6	5461.9	5432.9	5412.6
17.5°	5667.7	5635.7	5601.0	5554.6	5519.9	5490.9	5450.2	5421.3	5386.5	5348.8	5328.5
20°	5603.9	5566.2	5531.4	5485.0	5450.2	5415.5	5374.9	5343.0	5302.3	5267.6	5244.5
22.5°	5519.9	5476.3	5447.3	5400.9	5360.3	5322.7	5285.0	5247.3	5209.6	5180.6	5154.5
25°	5398.0	5351.6	5319.8	5282.0	5244.5	5215.5	5169.0	5145.9	5108.2	5082.1	5055.9
27.5°	5224.1	5189.3	5160.3	5122.6	5090.8	5067.6	5032.8	5009.6	4977.6	4954.5	4934.2
30°	4969.1	4940.1	4913.9	4876.2	4853.1	4832.8	4800.8	4780.5	4757.4	4731.2	4725.5
32.5°	4626.9	4603.7	4577.7	4551.5	4534.1	4522.5	4496.4	4484.8	4461.7	4447.1	4432.7
35°	4110.8	4090.6	4076.1	4064.5	4058.7	4061.6	4055.8	4067.4	4073.1	4070.3	4073.1
37.5°	3435.4	3423.8	3429.6	3438.3	3467.3	3505.0	3539.7	3591.9	3626.7	3661.6	3693.4
40°	2681.7	2690.4	2713.5	2765.7	2841.1	2925.2	3003.5	3102.0	3200.6	3270.2	3333.9
42.5°	2023.6	2049.7	2107.6	2183.0	2296.1	2420.7	2542.5	2687.4	2806.4	2922.2	3003.5
45°	1522.0	1556.8	1632.2	1736.6	1861.2	2006.1	2159.8	2322.1	2464.2	2583.1	2672.9
47.5°	1185.8	1217.6	1293.0	1403.2	1556.8	1707.6	1867.0	2035.1	2183.0	2299.0	2377.2
50°	936.4	976.9	1043.6	1159.6	1313.3	1472.7	1638.0	1803.2	1942.4	2041.0	2110.6
52.5°	736.4	774.1	837.8	959.6	1116.2	1275.6	1429.2	1591.6	1713.3	1809.0	1855.4
55°	571.1	605.9	672.5	774.1	921.9	1078.5	1232.1	1371.3	1484.3	1553.9	1597.4
57.5°	434.8	461.0	507.4	608.8	742.2	887.1	1017.6	1156.8	1243.8	1293.0	1321.9
60°	330.5	350.8	400.1	478.4	600.1	724.8	834.9	939.3	1008.9	1049.5	1078.5
62.5°	249.3	272.5	307.3	374.0	466.7	568.2	661.0	739.2	797.2	823.4	843.6
65°	171.0	188.4	214.6	266.7	345.0	417.4	490.0	548.0	585.7	614.7	626.2
67.5°	127.6	139.1	153.7	194.3	249.3	307.3	356.6	397.1	437.8	449.4	469.7
70°	95.7	104.4	118.9	147.8	179.7	220.3	261.0	284.1	313.1	333.4	339.2
72.5°	60.9	63.7	78.3	95.7	121.7	147.8	174.0	194.3	211.7	223.3	229.0
75°	34.8	52.1	52.1	69.6	87.0	98.6	116.0	130.4	139.1	147.8	147.8
77.5°	23.1	31.9	34.8	43.4	52.1	66.7	81.1	89.9	98.6	101.4	101.4
80°	20.3	23.1	23.1	31.9	37.7	49.3	58.0	60.9	66.7	69.6	75.4
82.5°	8.7	11.6	14.4	23.1	26.1	26.1	34.8	37.7	43.4	46.4	46.4
85°	2.9	5.8	5.8	8.7	14.4	17.4	20.3	23.1	26.1	26.1	29.0
87.5°	2.9	2.9	0.0	2.9	5.8	5.8	11.6	11.6	11.6	17.4	17.4
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: P248789

CATALOG NUMBER: LSR8B100D010 EC8B100840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3	5937.3
2.5°	5885.1	5888.0	5876.4	5873.6	5867.7	5870.6	5876.4
5°	5777.9	5780.7	5769.1	5757.6	5757.6	5754.6	5757.6
7.5°	5676.3	5679.3	5661.9	5656.0	5644.4	5647.4	5647.4
10°	5574.9	5574.9	5548.9	5545.9	5537.2	5534.3	5534.3
12.5°	5476.3	5467.6	5447.3	5435.7	5441.6	5424.2	5424.2
15°	5389.3	5374.9	5348.8	5340.0	5325.6	5319.8	5319.8
17.5°	5299.5	5287.9	5264.7	5247.3	5229.9	5227.0	5229.9
20°	5212.5	5200.9	5171.9	5160.3	5145.9	5145.9	5140.0
22.5°	5125.5	5113.9	5087.9	5079.2	5058.9	5058.9	5061.8
25°	5035.6	5026.9	4997.9	4992.2	4989.3	4977.6	4983.5
27.5°	4913.9	4908.1	4884.9	4876.2	4864.6	4861.8	4867.5
30°	4690.7	4681.9	4664.6	4655.9	4635.6	4638.5	4644.2
32.5°	4412.4	4400.8	4377.5	4368.8	4351.5	4345.7	4348.5
35°	4064.5	4055.8	4035.5	4035.5	4018.1	4012.3	4018.1
37.5°	3710.9	3719.4	3710.9	3719.4	3710.9	3707.9	3710.9
40°	3377.5	3409.3	3415.0	3447.0	3435.4	3452.8	3449.9
42.5°	3058.5	3110.6	3131.0	3157.1	3151.3	3162.9	3171.6
45°	2736.7	2780.2	2800.5	2817.9	2820.8	2826.6	2829.5
47.5°	2432.3	2467.1	2470.0	2490.3	2487.4	2487.4	2496.1
50°	2148.3	2171.4	2177.1	2191.7	2180.1	2174.3	2177.1
52.5°	1884.4	1907.6	1901.7	1907.6	1893.1	1887.3	1890.2
55°	1614.7	1626.3	1626.3	1626.3	1609.0	1609.0	1609.0
57.5°	1339.3	1342.3	1336.5	1339.3	1336.5	1319.1	1316.2
60°	1087.2	1087.2	1084.2	1087.2	1078.5	1069.8	1069.8
62.5°	849.4	855.2	866.8	855.2	849.4	855.2	846.5
65°	634.9	646.5	643.5	649.4	646.5	646.5	640.7
67.5°	478.4	481.2	484.1	487.1	487.1	487.1	487.1
70°	350.8	359.5	356.6	356.6	356.6	356.6	374.0
72.5°	234.8	246.4	243.5	249.3	249.3	255.1	249.3
75°	159.4	171.0	165.3	174.0	171.0	165.3	179.7
77.5°	107.3	113.1	116.0	118.9	116.0	113.1	116.0
80°	75.4	81.1	78.3	81.1	81.1	81.1	84.1
82.5°	46.4	55.1	52.1	55.1	52.1	55.1	55.1
85°	31.9	34.8	29.0	34.8	31.9	31.9	37.7
87.5°	20.3	17.4	17.4	20.3	17.4	20.3	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)