

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: P248862

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248862  
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 EC8B1209730 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8407.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

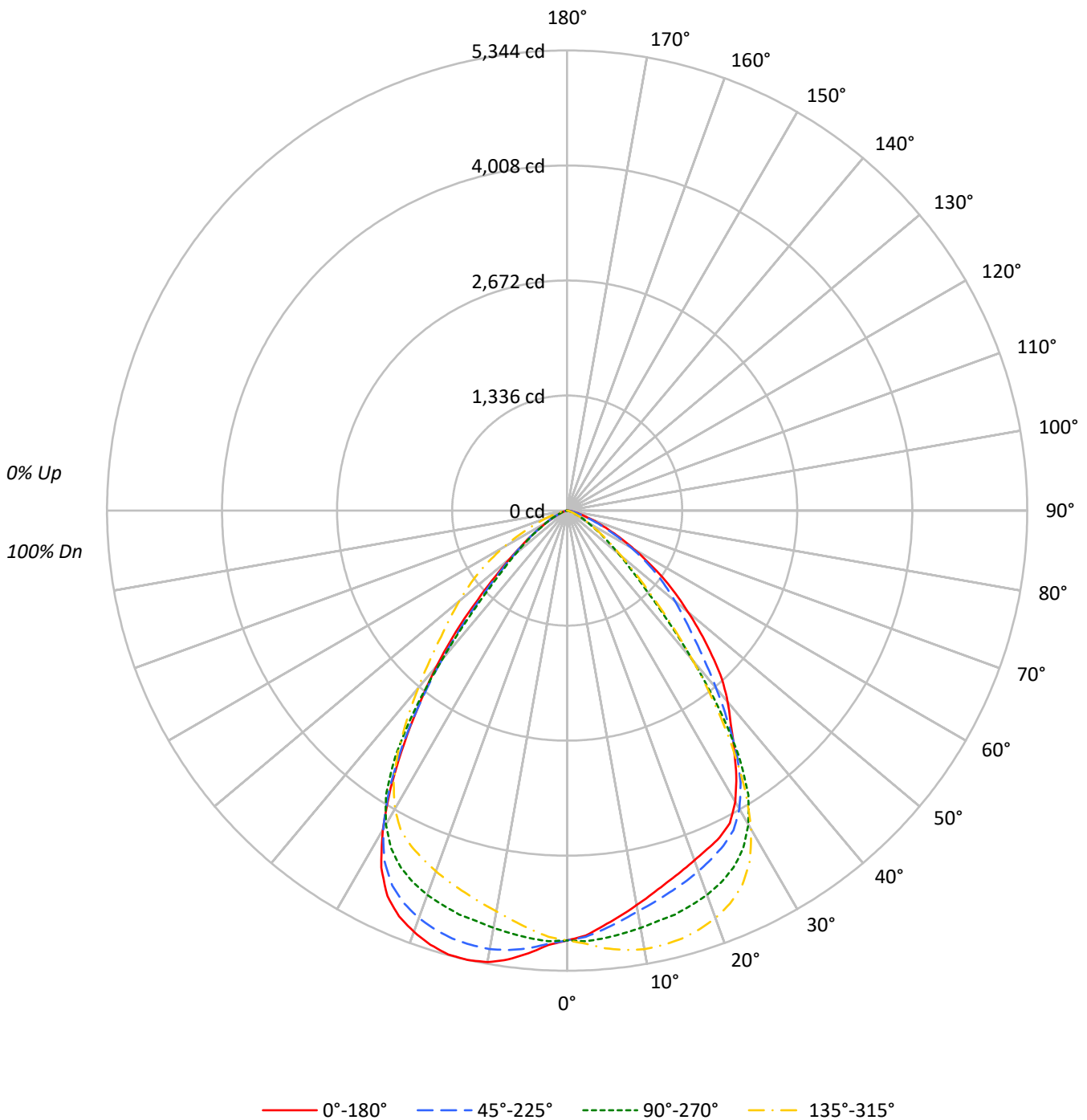
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.0	5.7
10°-20°	1375.6	16.4
20°-30°	2083.0	24.8
30°-40°	2087.7	24.8
40°-50°	1311.0	15.6
50°-60°	698.6	8.3
60°-70°	287.3	3.4
70°-80°	75.9	0.9
80°-90°	12.8	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°	3933.7	46.8
0°-40°	6021.4	71.6
0°-60°	8031.0	95.5
0°-90°	8407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4991	4991	4991	4991	4991	
5°	4840	4984	5162	4984	4840	456
15°	4472	4854	5337	4854	4472	1265
25°	4189	4572	4940	4572	4189	1921
35°	3378	3473	3295	3473	3378	2116
45°	2378	1272	1472	1272	2378	1829
55°	1353	470	497	470	1353	1206
65°	539	144	132	144	539	559
75°	151	29	24	29	151	171
85°	32	0	2	0	32	35
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°	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0
2.5°	4939.8	4934.9	4932.5	4937.4	4939.8	4949.5	4947.1	4951.9	4951.9	4954.5	4959.3
5°	4839.9	4837.4	4839.9	4839.9	4849.6	4859.4	4857.0	4864.3	4869.1	4881.3	4886.1
7.5°	4747.3	4747.3	4744.8	4754.5	4759.5	4774.1	4771.6	4783.8	4791.2	4803.3	4820.3
10°	4652.2	4652.2	4654.6	4662.0	4664.5	4686.3	4686.3	4703.4	4713.1	4725.4	4747.3
12.5°	4559.6	4559.6	4574.3	4569.4	4579.1	4596.2	4603.5	4620.5	4635.2	4659.5	4681.5
15°	4471.9	4471.9	4476.8	4488.9	4496.2	4518.2	4530.4	4549.9	4567.0	4591.3	4623.0
17.5°	4396.3	4393.9	4396.3	4411.0	4425.6	4445.1	4454.8	4479.2	4496.2	4527.9	4557.2
20°	4320.8	4325.7	4325.7	4337.9	4347.6	4372.0	4381.7	4408.6	4428.0	4457.2	4491.4
22.5°	4255.0	4252.6	4252.6	4269.6	4277.0	4298.8	4308.6	4332.9	4354.9	4379.3	4411.0
25°	4189.2	4184.3	4194.1	4196.5	4201.3	4225.7	4233.0	4250.1	4272.1	4294.0	4325.7
27.5°	4091.7	4086.9	4089.3	4099.0	4106.3	4125.8	4130.7	4147.8	4164.8	4184.3	4211.2
30°	3904.0	3899.2	3896.8	3913.9	3921.2	3935.7	3943.0	3972.3	3977.1	3999.1	4018.6
32.5°	3655.5	3653.0	3658.0	3672.5	3679.8	3699.4	3709.1	3726.2	3738.3	3750.5	3770.0
35°	3377.7	3372.8	3377.7	3392.3	3392.3	3409.4	3416.7	3423.9	3421.5	3423.9	3419.1
37.5°	3119.4	3116.9	3119.4	3126.6	3119.4	3126.6	3119.4	3104.8	3078.0	3048.7	3019.4
40°	2900.0	2902.4	2887.9	2897.6	2870.7	2865.9	2839.1	2802.5	2749.0	2690.5	2607.6
42.5°	2666.1	2658.8	2649.1	2653.9	2632.0	2614.9	2571.0	2524.8	2456.5	2359.1	2259.1
45°	2378.5	2376.1	2371.2	2368.8	2354.1	2337.1	2300.5	2246.9	2171.4	2071.5	1952.0
47.5°	2098.3	2090.9	2090.9	2093.3	2076.3	2073.9	2044.6	1998.4	1932.6	1835.1	1710.8
50°	1830.1	1827.7	1832.6	1842.4	1830.1	1825.3	1805.9	1774.2	1715.7	1632.8	1515.8
52.5°	1588.9	1586.5	1591.4	1603.5	1598.6	1603.5	1584.1	1559.7	1520.7	1440.2	1337.9
55°	1352.6	1352.6	1352.6	1367.1	1367.1	1367.1	1357.4	1342.8	1306.2	1247.7	1152.7
57.5°	1106.4	1108.8	1123.5	1125.9	1123.5	1128.4	1125.9	1111.2	1086.9	1045.5	972.4
60°	899.3	899.3	906.6	913.9	911.4	913.9	913.9	906.6	882.2	848.1	789.6
62.5°	711.6	718.9	714.0	718.9	728.6	718.9	714.0	709.2	692.1	670.2	621.4
65°	538.6	543.5	543.5	545.9	541.0	543.5	533.7	526.4	516.7	492.3	460.6
67.5°	409.5	409.5	409.5	409.5	407.0	404.5	402.1	394.8	377.8	368.0	333.8
70°	314.4	299.7	299.7	299.7	299.7	302.2	294.9	285.2	280.3	263.2	238.8
72.5°	209.5	214.5	209.5	209.5	204.7	207.1	197.4	192.5	187.7	177.9	163.3
75°	151.1	138.9	143.7	146.3	138.9	143.7	134.0	124.3	124.3	117.0	109.6
77.5°	97.5	95.1	97.5	99.9	97.5	95.1	90.2	85.3	85.3	82.9	75.5
80°	70.7	68.2	68.2	68.2	65.8	68.2	63.4	63.4	58.5	56.1	51.2
82.5°	46.3	46.3	43.8	46.3	43.8	46.3	39.0	39.0	39.0	36.5	31.7
85°	31.7	26.8	26.8	29.3	24.4	29.3	26.8	24.4	22.0	22.0	19.5
87.5°	14.6	17.1	14.6	17.1	14.6	14.6	17.1	14.6	14.6	9.7	9.7
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°	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0
2.5°	4966.6	4969.0	4969.0	4978.8	4983.6	4986.1	4986.1	5005.6	4998.3	5003.2	5008.0
5°	4896.0	4910.5	4915.4	4915.4	4942.2	4951.9	4961.7	4983.6	4986.1	5000.7	5017.8
7.5°	4827.7	4844.7	4854.5	4876.4	4893.5	4910.5	4939.8	4954.5	4969.0	4988.6	5010.4
10°	4761.9	4781.4	4800.9	4817.9	4844.7	4866.7	4886.1	4920.3	4937.4	4964.2	4993.4
12.5°	4698.6	4725.4	4742.4	4771.6	4800.9	4820.3	4849.6	4881.3	4908.1	4934.9	4969.0
15°	4642.5	4674.2	4693.7	4725.4	4757.0	4783.8	4815.5	4854.5	4874.0	4905.7	4937.4
17.5°	4581.5	4615.7	4640.1	4669.3	4708.3	4737.5	4764.4	4803.3	4827.7	4861.8	4898.4
20°	4518.2	4552.3	4581.5	4610.8	4649.8	4679.0	4710.7	4749.7	4776.5	4810.6	4839.9
22.5°	4442.7	4474.4	4506.0	4540.1	4579.1	4603.5	4640.1	4674.2	4703.4	4735.1	4764.4
25°	4345.2	4384.2	4408.6	4440.2	4471.9	4498.7	4537.7	4571.8	4596.2	4625.4	4652.2
27.5°	4230.6	4259.9	4279.4	4306.2	4337.9	4362.2	4391.4	4425.6	4450.0	4476.8	4496.2
30°	4035.6	4062.5	4079.6	4099.0	4130.7	4152.7	4177.1	4208.7	4225.7	4245.3	4262.3
32.5°	3779.7	3801.7	3811.4	3826.1	3848.1	3869.9	3889.5	3916.3	3923.6	3935.7	3935.7
35°	3409.4	3414.2	3411.8	3416.7	3426.5	3438.6	3455.6	3472.7	3482.4	3482.4	3475.2
37.5°	2975.6	2946.4	2914.7	2890.3	2883.0	2878.1	2887.9	2895.1	2904.9	2909.8	2897.6
40°	2524.8	2459.0	2388.3	2324.9	2281.0	2261.6	2254.2	2259.1	2259.1	2276.1	2276.1
42.5°	2137.3	2034.9	1930.1	1835.1	1771.7	1723.0	1701.0	1701.0	1703.4	1715.7	1723.0
45°	1815.6	1686.4	1564.5	1459.8	1372.0	1308.6	1279.4	1272.1	1269.7	1274.5	1291.6
47.5°	1569.4	1435.4	1308.6	1179.5	1086.9	1023.6	996.8	986.9	977.2	986.9	989.4
50°	1376.9	1238.0	1104.0	974.8	877.3	821.2	787.1	772.5	770.1	770.1	775.0
52.5°	1201.4	1072.3	938.3	806.7	704.3	650.7	619.0	611.7	602.0	611.7	611.7
55°	1035.7	906.6	775.0	650.7	565.3	509.4	480.1	470.3	465.4	472.8	472.8
57.5°	855.4	745.7	623.9	511.8	426.5	387.5	365.5	353.4	350.9	355.8	350.9
60°	701.9	609.3	504.5	402.1	336.3	294.9	277.9	272.9	268.0	272.9	272.9
62.5°	555.6	477.7	392.3	314.4	258.3	229.1	209.5	209.5	207.1	207.1	209.5
65°	411.9	350.9	290.0	224.2	180.4	158.4	143.7	143.7	141.3	143.7	141.3
67.5°	299.7	258.3	209.5	163.3	129.2	117.0	107.2	99.9	104.8	99.9	97.5
70°	219.4	185.2	151.1	124.3	99.9	87.8	80.4	77.9	73.1	73.1	73.1
72.5°	146.3	124.3	102.3	80.4	65.8	53.6	51.2	46.3	41.4	43.8	48.8
75°	97.5	82.9	73.1	58.5	43.8	43.8	29.3	29.3	24.4	29.3	22.0
77.5°	68.2	56.1	43.8	36.5	29.3	26.8	19.5	19.5	17.1	17.1	17.1
80°	48.8	41.4	31.7	26.8	19.5	19.5	17.1	14.6	12.1	12.1	14.6
82.5°	29.3	22.0	22.0	19.5	12.1	9.7	7.3	9.7	4.9	4.9	4.9
85°	17.1	14.6	12.1	7.3	4.9	4.9	2.4	0.0	2.4	2.4	0.0
87.5°	9.7	4.9	4.9	2.4	0.0	2.4	2.4	0.0	0.0	0.0	4.9
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°	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0
2.5°	5020.3	5017.8	5022.7	5022.7	5037.3	5034.8	5042.1	5042.1	5037.3	5039.7	5049.4
5°	5037.3	5044.6	5059.2	5071.4	5093.3	5103.1	5115.3	5127.5	5129.9	5137.2	5144.5
7.5°	5037.3	5061.7	5078.7	5100.6	5129.9	5147.0	5173.7	5195.7	5205.4	5217.6	5232.2
10°	5027.5	5051.9	5083.6	5107.9	5144.5	5171.3	5198.1	5232.2	5246.9	5266.3	5285.9
12.5°	5008.0	5034.8	5068.9	5100.6	5142.0	5166.4	5200.5	5232.2	5254.2	5281.0	5302.9
15°	4978.8	5010.4	5042.1	5073.8	5117.7	5147.0	5178.6	5215.2	5237.1	5266.3	5285.9
17.5°	4932.5	4966.6	4995.9	5025.1	5066.5	5100.6	5129.9	5164.0	5186.0	5210.3	5237.1
20°	4876.4	4908.1	4939.8	4964.2	5005.6	5034.8	5066.5	5098.2	5115.3	5120.2	5161.6
22.5°	4805.8	4827.7	4852.0	4891.1	4915.4	4942.2	4971.5	5000.7	5017.8	5044.6	5059.2
25°	4688.7	4710.7	4737.5	4754.5	4783.8	4805.8	4835.0	4866.7	4876.4	4896.0	4910.5
27.5°	4525.5	4537.7	4549.9	4564.5	4581.5	4593.7	4610.8	4625.4	4635.2	4644.9	4654.6
30°	4267.1	4267.1	4267.1	4257.4	4264.7	4272.1	4274.5	4272.1	4272.1	4269.6	4269.6
32.5°	3926.0	3906.5	3884.6	3865.1	3857.8	3848.1	3843.1	3835.8	3823.7	3816.4	3818.8
35°	3465.4	3421.5	3394.8	3370.4	3350.9	3336.3	3329.0	3321.6	3319.2	3309.5	3299.7
37.5°	2890.3	2858.6	2839.1	2824.5	2807.4	2792.8	2795.2	2797.7	2804.9	2800.1	2802.5
40°	2281.0	2273.7	2281.0	2264.0	2259.1	2264.0	2276.1	2293.3	2303.0	2312.7	2329.8
42.5°	1735.1	1747.3	1764.4	1764.4	1771.7	1781.5	1796.0	1822.9	1837.5	1854.5	1874.1
45°	1306.2	1320.9	1342.8	1350.1	1355.0	1367.1	1384.3	1406.1	1415.9	1430.5	1447.6
47.5°	1006.5	1016.2	1028.4	1040.6	1052.7	1057.7	1074.7	1074.7	1086.9	1096.7	1101.5
50°	784.7	794.4	804.2	811.5	816.4	823.7	828.6	835.9	838.3	843.2	845.6
52.5°	614.1	626.3	626.3	631.1	638.5	645.8	643.4	645.8	648.2	648.2	655.5
55°	480.1	480.1	487.4	487.4	492.3	489.8	492.3	492.3	492.3	492.3	494.7
57.5°	358.2	360.7	368.0	363.1	360.7	365.5	360.7	365.5	363.1	368.0	360.7
60°	275.3	275.3	277.9	277.9	280.3	280.3	280.3	277.9	277.9	275.3	275.3
62.5°	207.1	209.5	212.1	209.5	209.5	209.5	207.1	207.1	204.7	202.2	202.2
65°	138.9	136.5	141.3	136.5	138.9	138.9	136.5	138.9	131.6	134.0	131.6
67.5°	99.9	97.5	95.1	97.5	95.1	92.6	92.6	95.1	97.5	90.2	90.2
70°	65.8	68.2	65.8	68.2	70.7	70.7	68.2	65.8	68.2	63.4	65.8
72.5°	41.4	41.4	41.4	41.4	41.4	43.8	43.8	43.8	39.0	39.0	36.5
75°	19.5	26.8	22.0	19.5	26.8	26.8	24.4	24.4	22.0	22.0	22.0
77.5°	19.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6	12.1	14.6	12.1
80°	9.7	9.7	9.7	7.3	9.7	9.7	12.1	9.7	9.7	7.3	12.1
82.5°	4.9	4.9	4.9	0.0	2.4	4.9	4.9	2.4	4.9	4.9	2.4
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: P248862

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0
2.5°	5047.0	5044.6	5047.0	5049.4	5047.0	5044.6	5047.0	5049.4	5039.7	5037.3	5042.1
5°	5154.3	5154.3	5159.1	5161.6	5159.1	5154.3	5154.3	5144.5	5137.2	5129.9	5127.5
7.5°	5246.9	5251.8	5256.6	5259.0	5256.6	5251.8	5246.9	5232.2	5217.6	5205.4	5195.7
10°	5302.9	5310.3	5320.0	5324.8	5320.0	5310.3	5302.9	5285.9	5266.3	5246.9	5232.2
12.5°	5327.3	5334.6	5346.8	5344.4	5346.8	5334.6	5327.3	5302.9	5281.0	5254.2	5232.2
15°	5310.3	5320.0	5332.1	5337.0	5332.1	5320.0	5310.3	5285.9	5266.3	5237.1	5215.2
17.5°	5256.6	5271.2	5278.6	5285.9	5278.6	5271.2	5256.6	5237.1	5210.3	5186.0	5164.0
20°	5183.5	5193.3	5203.0	5205.4	5203.0	5193.3	5183.5	5161.6	5120.2	5115.3	5098.2
22.5°	5078.7	5086.1	5107.9	5100.6	5107.9	5086.1	5078.7	5059.2	5044.6	5017.8	5000.7
25°	4927.6	4934.9	4937.4	4939.8	4937.4	4934.9	4927.6	4910.5	4896.0	4876.4	4866.7
27.5°	4666.9	4666.9	4671.7	4674.2	4671.7	4666.9	4666.9	4654.6	4644.9	4635.2	4625.4
30°	4272.1	4272.1	4272.1	4284.3	4272.1	4272.1	4272.1	4269.6	4269.6	4272.1	4272.1
32.5°	3816.4	3811.4	3806.6	3811.4	3806.6	3811.4	3816.4	3818.8	3816.4	3823.7	3835.8
35°	3299.7	3297.3	3304.6	3294.8	3304.6	3297.3	3299.7	3299.7	3309.5	3319.2	3321.6
37.5°	2804.9	2800.1	2809.9	2800.1	2809.9	2800.1	2804.9	2802.5	2800.1	2804.9	2797.7
40°	2334.7	2339.5	2339.5	2359.1	2339.5	2339.5	2334.7	2329.8	2312.7	2303.0	2293.3
42.5°	1883.8	1898.4	1893.5	1908.2	1893.5	1898.4	1883.8	1874.1	1854.5	1837.5	1822.9
45°	1457.3	1467.1	1467.1	1471.9	1467.1	1467.1	1457.3	1447.6	1430.5	1415.9	1406.1
47.5°	1118.5	1118.5	1118.5	1121.1	1118.5	1118.5	1118.5	1101.5	1096.7	1086.9	1074.7
50°	850.5	852.9	855.4	857.8	855.4	852.9	850.5	845.6	843.2	838.3	835.9
52.5°	653.1	655.5	650.7	655.5	650.7	655.5	653.1	655.5	648.2	648.2	645.8
55°	494.7	492.3	494.7	497.1	494.7	492.3	494.7	494.7	492.3	492.3	492.3
57.5°	363.1	358.2	358.2	358.2	358.2	358.2	363.1	360.7	368.0	363.1	365.5
60°	270.5	272.9	272.9	275.3	272.9	272.9	270.5	275.3	275.3	277.9	277.9
62.5°	199.8	207.1	202.2	207.1	202.2	207.1	199.8	202.2	202.2	204.7	207.1
65°	129.2	129.2	129.2	131.6	129.2	129.2	129.2	131.6	134.0	131.6	138.9
67.5°	87.8	90.2	95.1	92.6	95.1	90.2	87.8	90.2	90.2	97.5	95.1
70°	70.7	63.4	63.4	70.7	63.4	63.4	70.7	65.8	63.4	68.2	65.8
72.5°	41.4	36.5	41.4	41.4	41.4	36.5	41.4	36.5	39.0	39.0	43.8
75°	22.0	19.5	17.1	24.4	17.1	19.5	22.0	22.0	22.0	22.0	24.4
77.5°	14.6	12.1	17.1	17.1	17.1	12.1	14.6	12.1	14.6	12.1	14.6
80°	7.3	9.7	7.3	12.1	7.3	9.7	7.3	12.1	7.3	9.7	9.7
82.5°	2.4	4.9	4.9	4.9	4.9	4.9	2.4	2.4	4.9	4.9	2.4
85°	0.0	4.9	2.4	2.4	2.4	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.0	0.0	2.4	0.0	0.0	2.4	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: P248862

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0
2.5°	5042.1	5034.8	5037.3	5022.7	5022.7	5017.8	5020.3	5008.0	5003.2	4998.3	5005.6
5°	5115.3	5103.1	5093.3	5071.4	5059.2	5044.6	5037.3	5017.8	5000.7	4986.1	4983.6
7.5°	5173.7	5147.0	5129.9	5100.6	5078.7	5061.7	5037.3	5010.4	4988.6	4969.0	4954.5
10°	5198.1	5171.3	5144.5	5107.9	5083.6	5051.9	5027.5	4993.4	4964.2	4937.4	4920.3
12.5°	5200.5	5166.4	5142.0	5100.6	5068.9	5034.8	5008.0	4969.0	4934.9	4908.1	4881.3
15°	5178.6	5147.0	5117.7	5073.8	5042.1	5010.4	4978.8	4937.4	4905.7	4874.0	4854.5
17.5°	5129.9	5100.6	5066.5	5025.1	4995.9	4966.6	4932.5	4898.4	4861.8	4827.7	4803.3
20°	5066.5	5034.8	5005.6	4964.2	4939.8	4908.1	4876.4	4839.9	4810.6	4776.5	4749.7
22.5°	4971.5	4942.2	4915.4	4891.1	4852.0	4827.7	4805.8	4764.4	4735.1	4703.4	4674.2
25°	4835.0	4805.8	4783.8	4754.5	4737.5	4710.7	4688.7	4652.2	4625.4	4596.2	4571.8
27.5°	4610.8	4593.7	4581.5	4564.5	4549.9	4537.7	4525.5	4496.2	4476.8	4450.0	4425.6
30°	4274.5	4272.1	4264.7	4257.4	4267.1	4267.1	4267.1	4262.3	4245.3	4225.7	4208.7
32.5°	3843.1	3848.1	3857.8	3865.1	3884.6	3906.5	3926.0	3935.7	3935.7	3923.6	3916.3
35°	3329.0	3336.3	3350.9	3370.4	3394.8	3421.5	3465.4	3475.2	3482.4	3482.4	3472.7
37.5°	2795.2	2792.8	2807.4	2824.5	2839.1	2858.6	2890.3	2897.6	2909.8	2904.9	2895.1
40°	2276.1	2264.0	2259.1	2264.0	2281.0	2273.7	2281.0	2276.1	2276.1	2259.1	2259.1
42.5°	1796.0	1781.5	1771.7	1764.4	1764.4	1747.3	1735.1	1723.0	1715.7	1703.4	1701.0
45°	1384.3	1367.1	1355.0	1350.1	1342.8	1320.9	1306.2	1291.6	1274.5	1269.7	1272.1
47.5°	1074.7	1057.7	1052.7	1040.6	1028.4	1016.2	1006.5	989.4	986.9	977.2	986.9
50°	828.6	823.7	816.4	811.5	804.2	794.4	784.7	775.0	770.1	770.1	772.5
52.5°	643.4	645.8	638.5	631.1	626.3	626.3	614.1	611.7	611.7	602.0	611.7
55°	492.3	489.8	492.3	487.4	487.4	480.1	480.1	472.8	472.8	465.4	470.3
57.5°	360.7	365.5	360.7	363.1	368.0	360.7	358.2	350.9	355.8	350.9	353.4
60°	280.3	280.3	280.3	277.9	277.9	275.3	275.3	272.9	272.9	268.0	272.9
62.5°	207.1	209.5	209.5	209.5	212.1	209.5	207.1	209.5	207.1	207.1	209.5
65°	136.5	138.9	138.9	136.5	141.3	136.5	138.9	141.3	143.7	141.3	143.7
67.5°	92.6	92.6	95.1	97.5	95.1	97.5	99.9	97.5	99.9	104.8	99.9
70°	68.2	70.7	70.7	68.2	65.8	68.2	65.8	73.1	73.1	73.1	77.9
72.5°	43.8	43.8	41.4	41.4	41.4	41.4	41.4	48.8	43.8	41.4	46.3
75°	24.4	26.8	26.8	19.5	22.0	26.8	19.5	22.0	29.3	24.4	29.3
77.5°	14.6	14.6	14.6	14.6	14.6	14.6	19.5	17.1	17.1	17.1	19.5
80°	12.1	9.7	9.7	7.3	9.7	9.7	9.7	14.6	12.1	12.1	14.6
82.5°	4.9	4.9	2.4	0.0	4.9	4.9	4.9	4.9	4.9	4.9	9.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	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: P248862

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0
2.5°	4986.1	4986.1	4983.6	4978.8	4969.0	4969.0	4966.6	4959.3	4954.5	4951.9	4951.9
5°	4961.7	4951.9	4942.2	4915.4	4915.4	4910.5	4896.0	4886.1	4881.3	4869.1	4864.3
7.5°	4939.8	4910.5	4893.5	4876.4	4854.5	4844.7	4827.7	4820.3	4803.3	4791.2	4783.8
10°	4886.1	4866.7	4844.7	4817.9	4800.9	4781.4	4761.9	4747.3	4725.4	4713.1	4703.4
12.5°	4849.6	4820.3	4800.9	4771.6	4742.4	4725.4	4698.6	4681.5	4659.5	4635.2	4620.5
15°	4815.5	4783.8	4757.0	4725.4	4693.7	4674.2	4642.5	4623.0	4591.3	4567.0	4549.9
17.5°	4764.4	4737.5	4708.3	4669.3	4640.1	4615.7	4581.5	4557.2	4527.9	4496.2	4479.2
20°	4710.7	4679.0	4649.8	4610.8	4581.5	4552.3	4518.2	4491.4	4457.2	4428.0	4408.6
22.5°	4640.1	4603.5	4579.1	4540.1	4506.0	4474.4	4442.7	4411.0	4379.3	4354.9	4332.9
25°	4537.7	4498.7	4471.9	4440.2	4408.6	4384.2	4345.2	4325.7	4294.0	4272.1	4250.1
27.5°	4391.4	4362.2	4337.9	4306.2	4279.4	4259.9	4230.6	4211.2	4184.3	4164.8	4147.8
30°	4177.1	4152.7	4130.7	4099.0	4079.6	4062.5	4035.6	4018.6	3999.1	3977.1	3972.3
32.5°	3889.5	3869.9	3848.1	3826.1	3811.4	3801.7	3779.7	3770.0	3750.5	3738.3	3726.2
35°	3455.6	3438.6	3426.5	3416.7	3411.8	3414.2	3409.4	3419.1	3423.9	3421.5	3423.9
37.5°	2887.9	2878.1	2883.0	2890.3	2914.7	2946.4	2975.6	3019.4	3048.7	3078.0	3104.8
40°	2254.2	2261.6	2281.0	2324.9	2388.3	2459.0	2524.8	2607.6	2690.5	2749.0	2802.5
42.5°	1701.0	1723.0	1771.7	1835.1	1930.1	2034.9	2137.3	2259.1	2359.1	2456.5	2524.8
45°	1279.4	1308.6	1372.0	1459.8	1564.5	1686.4	1815.6	1952.0	2071.5	2171.4	2246.9
47.5°	996.8	1023.6	1086.9	1179.5	1308.6	1435.4	1569.4	1710.8	1835.1	1932.6	1998.4
50°	787.1	821.2	877.3	974.8	1104.0	1238.0	1376.9	1515.8	1632.8	1715.7	1774.2
52.5°	619.0	650.7	704.3	806.7	938.3	1072.3	1201.4	1337.9	1440.2	1520.7	1559.7
55°	480.1	509.4	565.3	650.7	775.0	906.6	1035.7	1152.7	1247.7	1306.2	1342.8
57.5°	365.5	387.5	426.5	511.8	623.9	745.7	855.4	972.4	1045.5	1086.9	1111.2
60°	277.9	294.9	336.3	402.1	504.5	609.3	701.9	789.6	848.1	882.2	906.6
62.5°	209.5	229.1	258.3	314.4	392.3	477.7	555.6	621.4	670.2	692.1	709.2
65°	143.7	158.4	180.4	224.2	290.0	350.9	411.9	460.6	492.3	516.7	526.4
67.5°	107.2	117.0	129.2	163.3	209.5	258.3	299.7	333.8	368.0	377.8	394.8
70°	80.4	87.8	99.9	124.3	151.1	185.2	219.4	238.8	263.2	280.3	285.2
72.5°	51.2	53.6	65.8	80.4	102.3	124.3	146.3	163.3	177.9	187.7	192.5
75°	29.3	43.8	43.8	58.5	73.1	82.9	97.5	109.6	117.0	124.3	124.3
77.5°	19.5	26.8	29.3	36.5	43.8	56.1	68.2	75.5	82.9	85.3	85.3
80°	17.1	19.5	19.5	26.8	31.7	41.4	48.8	51.2	56.1	58.5	63.4
82.5°	7.3	9.7	12.1	19.5	22.0	22.0	29.3	31.7	36.5	39.0	39.0
85°	2.4	4.9	4.9	7.3	12.1	14.6	17.1	19.5	22.0	22.0	24.4
87.5°	2.4	2.4	0.0	2.4	4.9	4.9	9.7	9.7	9.7	14.6	14.6
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: P248862

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0	4991.0
2.5°	4947.1	4949.5	4939.8	4937.4	4932.5	4934.9	4939.8
5°	4857.0	4859.4	4849.6	4839.9	4839.9	4837.4	4839.9
7.5°	4771.6	4774.1	4759.5	4754.5	4744.8	4747.3	4747.3
10°	4686.3	4686.3	4664.5	4662.0	4654.6	4652.2	4652.2
12.5°	4603.5	4596.2	4579.1	4569.4	4574.3	4559.6	4559.6
15°	4530.4	4518.2	4496.2	4488.9	4476.8	4471.9	4471.9
17.5°	4454.8	4445.1	4425.6	4411.0	4396.3	4393.9	4396.3
20°	4381.7	4372.0	4347.6	4337.9	4325.7	4325.7	4320.8
22.5°	4308.6	4298.8	4277.0	4269.6	4252.6	4252.6	4255.0
25°	4233.0	4225.7	4201.3	4196.5	4194.1	4184.3	4189.2
27.5°	4130.7	4125.8	4106.3	4099.0	4089.3	4086.9	4091.7
30°	3943.0	3935.7	3921.2	3913.9	3896.8	3899.2	3904.0
32.5°	3709.1	3699.4	3679.8	3672.5	3658.0	3653.0	3655.5
35°	3416.7	3409.4	3392.3	3392.3	3377.7	3372.8	3377.7
37.5°	3119.4	3126.6	3119.4	3126.6	3119.4	3116.9	3119.4
40°	2839.1	2865.9	2870.7	2897.6	2887.9	2902.4	2900.0
42.5°	2571.0	2614.9	2632.0	2653.9	2649.1	2658.8	2666.1
45°	2300.5	2337.1	2354.1	2368.8	2371.2	2376.1	2378.5
47.5°	2044.6	2073.9	2076.3	2093.3	2090.9	2090.9	2098.3
50°	1805.9	1825.3	1830.1	1842.4	1832.6	1827.7	1830.1
52.5°	1584.1	1603.5	1598.6	1603.5	1591.4	1586.5	1588.9
55°	1357.4	1367.1	1367.1	1367.1	1352.6	1352.6	1352.6
57.5°	1125.9	1128.4	1123.5	1125.9	1123.5	1108.8	1106.4
60°	913.9	913.9	911.4	913.9	906.6	899.3	899.3
62.5°	714.0	718.9	728.6	718.9	714.0	718.9	711.6
65°	533.7	543.5	541.0	545.9	543.5	543.5	538.6
67.5°	402.1	404.5	407.0	409.5	409.5	409.5	409.5
70°	294.9	302.2	299.7	299.7	299.7	299.7	314.4
72.5°	197.4	207.1	204.7	209.5	209.5	214.5	209.5
75°	134.0	143.7	138.9	146.3	143.7	138.9	151.1
77.5°	90.2	95.1	97.5	99.9	97.5	95.1	97.5
80°	63.4	68.2	65.8	68.2	68.2	68.2	70.7
82.5°	39.0	46.3	43.8	46.3	43.8	46.3	46.3
85°	26.8	29.3	24.4	29.3	26.8	26.8	31.7
87.5°	17.1	14.6	14.6	17.1	14.6	17.1	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)