

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: P248617

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248617  
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: LSR8B90D010 EC8B90940 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8397.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 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

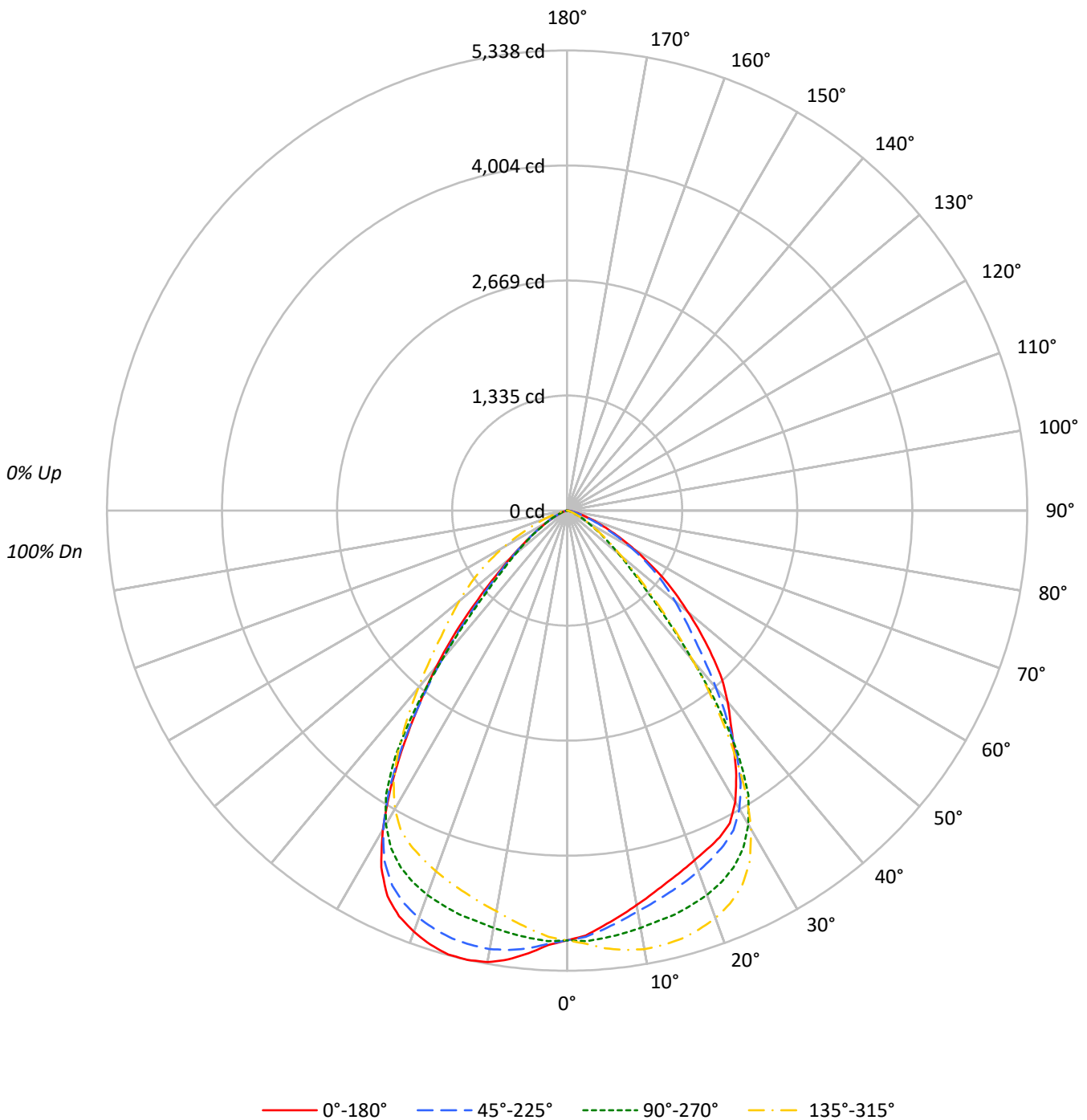
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	153719	153719	153719	153719
5°	149635	154080	159584	154080
10°	145498	153880	166533	153880
15°	142592	154794	170178	154794
20°	141621	155679	170613	155679
25°	142364	155364	167872	155364
30°	138845	149680	152368	149680
35°	127000	130573	123883	130573
40°	116600	90829	94850	90829
45°	103602	55410	64114	55410
50°	87694	37016	41103	37016
55°	72632	25257	26693	25257
60°	55394	16812	16960	16812
65°	39248	10478	9588	10478
70°	28310	7014	6365	7014
75°	17979	3491	2895	3491
80°	12537	2593	2149	2593
85°	11216	0	849	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.5	5.7
10°-20°	1374.0	16.4
20°-30°	2080.5	24.8
30°-40°	2085.2	24.8
40°-50°	1309.4	15.6
50°-60°	697.8	8.3
60°-70°	286.9	3.4
70°-80°	75.8	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°	3929.0	46.8
0°-40°	6014.2	71.6
0°-60°	8021.4	95.5
0°-90°	8397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8397.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4985	4985	4985	4985	4985	
5°	4834	4978	5156	4978	4834	456
15°	4467	4849	5331	4849	4467	1263
25°	4184	4566	4934	4566	4184	1919
35°	3374	3469	3291	3469	3374	2114
45°	2376	1271	1470	1271	2376	1827
55°	1351	470	496	470	1351	1204
65°	538	144	131	144	538	558
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°	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0
2.5°	4933.9	4929.0	4926.6	4931.5	4933.9	4943.7	4941.3	4946.1	4946.1	4948.6	4953.4
5°	4834.1	4831.6	4834.1	4834.1	4843.9	4853.6	4851.2	4858.5	4863.3	4875.5	4880.3
7.5°	4741.7	4741.7	4739.2	4748.9	4753.8	4768.4	4765.9	4778.1	4785.5	4797.6	4814.6
10°	4646.7	4646.7	4649.1	4656.4	4658.9	4680.8	4680.8	4697.8	4707.5	4719.7	4741.7
12.5°	4554.2	4554.2	4568.8	4563.9	4573.7	4590.7	4598.0	4615.0	4629.7	4654.0	4675.9
15°	4466.6	4466.6	4471.5	4483.6	4490.9	4512.8	4525.0	4544.5	4561.5	4585.9	4617.5
17.5°	4391.1	4388.7	4391.1	4405.7	4420.4	4439.8	4449.5	4473.9	4490.9	4522.6	4551.8
20°	4315.7	4320.6	4320.6	4332.7	4342.4	4366.8	4376.5	4403.3	4422.8	4451.9	4486.1
22.5°	4249.9	4247.5	4247.5	4264.6	4271.9	4293.7	4303.4	4327.8	4349.7	4374.1	4405.7
25°	4184.2	4179.3	4189.1	4191.5	4196.3	4220.7	4228.0	4245.0	4267.0	4288.9	4320.6
27.5°	4086.8	4082.0	4084.4	4094.1	4101.5	4120.9	4125.8	4142.8	4159.9	4179.3	4206.2
30°	3899.4	3894.6	3892.2	3909.2	3916.5	3931.0	3938.4	3967.6	3972.4	3994.4	4013.8
32.5°	3651.1	3648.7	3653.6	3668.1	3675.5	3695.0	3704.7	3721.7	3733.9	3746.1	3765.5
35°	3373.7	3368.8	3373.7	3388.3	3388.3	3405.3	3412.7	3419.9	3417.5	3419.9	3415.1
37.5°	3115.7	3113.2	3115.7	3122.9	3115.7	3122.9	3115.7	3101.1	3074.3	3045.1	3015.8
40°	2896.6	2899.0	2884.5	2894.2	2867.3	2862.5	2835.8	2799.2	2745.7	2687.3	2604.5
42.5°	2662.9	2655.6	2645.9	2650.7	2628.9	2611.7	2568.0	2521.8	2453.5	2356.3	2256.4
45°	2375.7	2373.3	2368.4	2366.0	2351.3	2334.3	2297.7	2244.2	2168.8	2069.0	1949.7
47.5°	2095.8	2088.5	2088.5	2090.9	2073.8	2071.4	2042.2	1996.0	1930.3	1832.9	1708.7
50°	1828.0	1825.6	1830.5	1840.2	1828.0	1823.1	1803.7	1772.1	1713.6	1630.9	1514.0
52.5°	1587.0	1584.6	1589.5	1601.6	1596.7	1601.6	1582.2	1557.8	1518.9	1438.5	1336.3
55°	1351.0	1351.0	1351.0	1365.5	1365.5	1365.5	1355.8	1341.2	1304.7	1246.3	1151.4
57.5°	1105.1	1107.5	1122.1	1124.5	1122.1	1127.0	1124.5	1109.9	1085.7	1044.3	971.2
60°	898.2	898.2	905.5	912.8	910.3	912.8	912.8	905.5	881.2	847.1	788.7
62.5°	710.7	718.1	713.1	718.1	727.8	718.1	713.1	708.3	691.3	669.4	620.7
65°	537.9	542.8	542.8	545.2	540.3	542.8	533.1	525.8	516.1	491.7	460.1
67.5°	409.0	409.0	409.0	409.0	406.5	404.1	401.7	394.3	377.3	367.6	333.4
70°	314.0	299.4	299.4	299.4	299.4	301.9	294.6	284.8	279.9	262.9	238.6
72.5°	209.3	214.2	209.3	209.3	204.5	206.9	197.2	192.3	187.5	177.7	163.1
75°	150.9	138.8	143.6	146.1	138.8	143.6	133.9	124.1	124.1	116.8	109.5
77.5°	97.4	95.0	97.4	99.8	97.4	95.0	90.1	85.2	85.2	82.8	75.4
80°	70.6	68.1	68.1	68.1	65.7	68.1	63.3	63.3	58.4	56.0	51.1
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	24.3	29.3	26.8	24.3	21.9	21.9	19.4
87.5°	14.6	17.0	14.6	17.0	14.6	14.6	17.0	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°	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0
2.5°	4960.7	4963.1	4963.1	4972.9	4977.7	4980.1	4980.1	4999.7	4992.3	4997.3	5002.1
5°	4890.2	4904.7	4909.6	4909.6	4936.3	4946.1	4955.8	4977.7	4980.1	4994.8	5011.8
7.5°	4821.9	4839.0	4848.8	4870.6	4887.6	4904.7	4933.9	4948.6	4963.1	4982.6	5004.5
10°	4756.2	4775.7	4795.2	4812.2	4839.0	4860.9	4880.3	4914.4	4931.5	4958.3	4987.4
12.5°	4693.0	4719.7	4736.8	4765.9	4795.2	4814.6	4843.9	4875.5	4902.3	4929.0	4963.1
15°	4637.0	4668.6	4688.1	4719.7	4751.4	4778.1	4809.8	4848.8	4868.2	4899.9	4931.5
17.5°	4576.1	4610.2	4634.6	4663.7	4702.7	4731.9	4758.7	4797.6	4821.9	4856.0	4892.6
20°	4512.8	4546.9	4576.1	4605.3	4644.3	4673.4	4705.1	4744.1	4770.8	4804.9	4834.1
22.5°	4437.4	4469.1	4500.6	4534.7	4573.7	4598.0	4634.6	4668.6	4697.8	4729.4	4758.7
25°	4340.0	4379.0	4403.3	4434.9	4466.6	4493.3	4532.3	4566.3	4590.7	4619.9	4646.7
27.5°	4225.6	4254.9	4274.3	4301.0	4332.7	4357.0	4386.2	4420.4	4444.7	4471.5	4490.9
30°	4030.8	4057.7	4074.7	4094.1	4125.8	4147.7	4172.1	4203.7	4220.7	4240.2	4257.3
32.5°	3775.2	3797.2	3806.9	3821.5	3843.5	3865.3	3884.9	3911.6	3918.9	3931.0	3931.0
35°	3405.3	3410.2	3407.7	3412.7	3422.4	3434.5	3451.5	3468.6	3478.3	3478.3	3471.1
37.5°	2972.0	2942.9	2911.2	2886.9	2879.5	2874.6	2884.5	2891.7	2901.5	2906.3	2894.2
40°	2521.8	2456.0	2385.4	2322.1	2278.3	2258.9	2251.6	2256.4	2256.4	2273.4	2273.4
42.5°	2134.7	2032.4	1927.8	1832.9	1769.5	1721.0	1699.0	1699.0	1701.4	1713.6	1721.0
45°	1813.4	1684.4	1562.7	1458.1	1370.4	1307.1	1277.9	1270.6	1268.2	1273.0	1290.0
47.5°	1567.6	1433.7	1307.1	1178.1	1085.7	1022.3	995.6	985.8	976.0	985.8	988.3
50°	1375.3	1236.5	1102.7	973.6	876.3	820.3	786.2	771.6	769.2	769.2	774.1
52.5°	1200.0	1071.0	937.2	805.7	703.4	649.9	618.3	611.0	601.2	611.0	611.0
55°	1034.5	905.5	774.1	649.9	564.7	508.8	479.5	469.8	464.9	472.2	472.2
57.5°	854.4	744.8	623.2	511.2	426.0	387.0	365.1	353.0	350.5	355.4	350.5
60°	701.0	608.6	503.9	401.7	335.9	294.6	277.5	272.6	267.7	272.6	272.6
62.5°	555.0	477.1	391.8	314.0	258.0	228.8	209.3	209.3	206.9	206.9	209.3
65°	411.4	350.5	289.6	223.9	180.1	158.2	143.6	143.6	141.2	143.6	141.2
67.5°	299.4	258.0	209.3	163.1	129.0	116.8	107.1	99.8	104.7	99.8	97.4
70°	219.1	184.9	150.9	124.1	99.8	87.7	80.4	77.8	73.0	73.0	73.0
72.5°	146.1	124.1	102.2	80.4	65.7	53.5	51.1	46.3	41.4	43.8	48.7
75°	97.4	82.8	73.0	58.4	43.8	43.8	29.3	29.3	24.3	29.3	21.9
77.5°	68.1	56.0	43.8	36.5	29.3	26.8	19.4	19.4	17.0	17.0	17.0
80°	48.7	41.4	31.7	26.8	19.4	19.4	17.0	14.6	12.1	12.1	14.6
82.5°	29.3	21.9	21.9	19.4	12.1	9.7	7.3	9.7	4.9	4.9	4.9
85°	17.0	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°	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0
2.5°	5014.3	5011.8	5016.7	5016.7	5031.3	5028.8	5036.1	5036.1	5031.3	5033.7	5043.4
5°	5031.3	5038.6	5053.2	5065.4	5087.2	5097.0	5109.2	5121.4	5123.8	5131.1	5138.4
7.5°	5031.3	5055.7	5072.7	5094.5	5123.8	5140.8	5167.6	5189.5	5199.2	5211.4	5226.0
10°	5021.5	5045.8	5077.5	5101.9	5138.4	5165.2	5191.9	5226.0	5240.6	5260.1	5279.6
12.5°	5002.1	5028.8	5062.9	5094.5	5135.9	5160.3	5194.3	5226.0	5247.9	5274.7	5296.6
15°	4972.9	5004.5	5036.1	5067.8	5111.6	5140.8	5172.5	5209.0	5230.9	5260.1	5279.6
17.5°	4926.6	4960.7	4989.9	5019.1	5060.5	5094.5	5123.8	5157.9	5179.8	5204.1	5230.9
20°	4870.6	4902.3	4933.9	4958.3	4999.7	5028.8	5060.5	5092.1	5109.2	5114.1	5155.5
22.5°	4800.1	4821.9	4846.3	4885.2	4909.6	4936.3	4965.6	4994.8	5011.8	5038.6	5053.2
25°	4683.2	4705.1	4731.9	4748.9	4778.1	4800.1	4829.2	4860.9	4870.6	4890.2	4904.7
27.5°	4520.2	4532.3	4544.5	4559.0	4576.1	4588.3	4605.3	4619.9	4629.7	4639.4	4649.1
30°	4262.1	4262.1	4262.1	4252.3	4259.7	4267.0	4269.4	4267.0	4267.0	4264.6	4264.6
32.5°	3921.3	3901.9	3879.9	3860.5	3853.2	3843.5	3838.6	3831.2	3819.1	3811.8	3814.2
35°	3461.2	3417.5	3390.7	3366.4	3346.9	3332.3	3325.0	3317.7	3315.3	3305.6	3295.7
37.5°	2886.9	2855.2	2835.8	2821.1	2804.1	2789.5	2791.9	2794.4	2801.6	2796.8	2799.2
40°	2278.3	2271.0	2278.3	2261.3	2256.4	2261.3	2273.4	2290.5	2300.3	2310.0	2327.0
42.5°	1733.1	1745.2	1762.3	1762.3	1769.5	1779.4	1793.9	1820.7	1835.3	1852.3	1871.8
45°	1304.7	1319.3	1341.2	1348.5	1353.4	1365.5	1382.6	1404.5	1414.2	1428.8	1445.8
47.5°	1005.3	1015.0	1027.1	1039.4	1051.5	1056.4	1073.4	1073.4	1085.7	1095.4	1100.2
50°	783.8	793.5	803.2	810.5	815.4	822.8	827.6	834.9	837.3	842.2	844.6
52.5°	613.4	625.6	625.6	630.4	637.7	645.0	642.6	645.0	647.4	647.4	654.7
55°	479.5	479.5	486.8	486.8	491.7	489.2	491.7	491.7	491.7	491.7	494.1
57.5°	357.8	360.3	367.6	362.7	360.3	365.1	360.3	365.1	362.7	367.6	360.3
60°	275.0	275.0	277.5	277.5	279.9	279.9	279.9	277.5	277.5	275.0	275.0
62.5°	206.9	209.3	211.8	209.3	209.3	209.3	206.9	206.9	204.5	202.0	202.0
65°	138.8	136.4	141.2	136.4	138.8	138.8	136.4	138.8	131.4	133.9	131.4
67.5°	99.8	97.4	95.0	97.4	95.0	92.5	92.5	95.0	97.4	90.1	90.1
70°	65.7	68.1	65.7	68.1	70.6	70.6	68.1	65.7	68.1	63.3	65.7
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°	19.4	26.8	21.9	19.4	26.8	26.8	24.3	24.3	21.9	21.9	21.9
77.5°	19.4	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: P248617

CATALOG NUMBER: LSR8B90D010 EC8B90940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0
2.5°	5041.0	5038.6	5041.0	5043.4	5041.0	5038.6	5041.0	5043.4	5033.7	5031.3	5036.1
5°	5148.1	5148.1	5153.0	5155.5	5153.0	5148.1	5148.1	5138.4	5131.1	5123.8	5121.4
7.5°	5240.6	5245.5	5250.3	5252.7	5250.3	5245.5	5240.6	5226.0	5211.4	5199.2	5189.5
10°	5296.6	5303.9	5313.7	5318.5	5313.7	5303.9	5296.6	5279.6	5260.1	5240.6	5226.0
12.5°	5321.0	5328.3	5340.4	5338.0	5340.4	5328.3	5321.0	5296.6	5274.7	5247.9	5226.0
15°	5303.9	5313.7	5325.8	5330.7	5325.8	5313.7	5303.9	5279.6	5260.1	5230.9	5209.0
17.5°	5250.3	5265.0	5272.3	5279.6	5272.3	5265.0	5250.3	5230.9	5204.1	5179.8	5157.9
20°	5177.3	5187.1	5196.8	5199.2	5196.8	5187.1	5177.3	5155.5	5114.1	5109.2	5092.1
22.5°	5072.7	5080.0	5101.9	5094.5	5101.9	5080.0	5072.7	5053.2	5038.6	5011.8	4994.8
25°	4921.7	4929.0	4931.5	4933.9	4931.5	4929.0	4921.7	4904.7	4890.2	4870.6	4860.9
27.5°	4661.3	4661.3	4666.1	4668.6	4666.1	4661.3	4661.3	4649.1	4639.4	4629.7	4619.9
30°	4267.0	4267.0	4267.0	4279.2	4267.0	4267.0	4267.0	4264.6	4264.6	4267.0	4267.0
32.5°	3811.8	3806.9	3802.1	3806.9	3802.1	3806.9	3811.8	3814.2	3811.8	3819.1	3831.2
35°	3295.7	3293.3	3300.6	3290.9	3300.6	3293.3	3295.7	3295.7	3305.6	3315.3	3317.7
37.5°	2801.6	2796.8	2806.5	2796.8	2806.5	2796.8	2801.6	2799.2	2796.8	2801.6	2794.4
40°	2331.9	2336.7	2336.7	2356.3	2336.7	2336.7	2331.9	2327.0	2310.0	2300.3	2290.5
42.5°	1881.6	1896.2	1891.3	1905.9	1891.3	1896.2	1881.6	1871.8	1852.3	1835.3	1820.7
45°	1455.6	1465.4	1465.4	1470.2	1465.4	1465.4	1455.6	1445.8	1428.8	1414.2	1404.5
47.5°	1117.2	1117.2	1117.2	1119.7	1117.2	1117.2	1117.2	1100.2	1095.4	1085.7	1073.4
50°	849.5	851.9	854.4	856.8	854.4	851.9	849.5	844.6	842.2	837.3	834.9
52.5°	652.3	654.7	649.9	654.7	649.9	654.7	652.3	654.7	647.4	647.4	645.0
55°	494.1	491.7	494.1	496.5	494.1	491.7	494.1	494.1	491.7	491.7	491.7
57.5°	362.7	357.8	357.8	357.8	357.8	357.8	362.7	360.3	367.6	362.7	365.1
60°	270.2	272.6	272.6	275.0	272.6	272.6	270.2	275.0	275.0	277.5	277.5
62.5°	199.6	206.9	202.0	206.9	202.0	206.9	199.6	202.0	202.0	204.5	206.9
65°	129.0	129.0	129.0	131.4	129.0	129.0	129.0	131.4	133.9	131.4	138.8
67.5°	87.7	90.1	95.0	92.5	95.0	90.1	87.7	90.1	90.1	97.4	95.0
70°	70.6	63.3	63.3	70.6	63.3	63.3	70.6	65.7	63.3	68.1	65.7
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°	21.9	19.4	17.0	24.3	17.0	19.4	21.9	21.9	21.9	21.9	24.3
77.5°	14.6	12.1	17.0	17.0	17.0	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: P248617

CATALOG NUMBER: LSR8B90D010 EC8B90940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0
2.5°	5036.1	5028.8	5031.3	5016.7	5016.7	5011.8	5014.3	5002.1	4997.3	4992.3	4999.7
5°	5109.2	5097.0	5087.2	5065.4	5053.2	5038.6	5031.3	5011.8	4994.8	4980.1	4977.7
7.5°	5167.6	5140.8	5123.8	5094.5	5072.7	5055.7	5031.3	5004.5	4982.6	4963.1	4948.6
10°	5191.9	5165.2	5138.4	5101.9	5077.5	5045.8	5021.5	4987.4	4958.3	4931.5	4914.4
12.5°	5194.3	5160.3	5135.9	5094.5	5062.9	5028.8	5002.1	4963.1	4929.0	4902.3	4875.5
15°	5172.5	5140.8	5111.6	5067.8	5036.1	5004.5	4972.9	4931.5	4899.9	4868.2	4848.8
17.5°	5123.8	5094.5	5060.5	5019.1	4989.9	4960.7	4926.6	4892.6	4856.0	4821.9	4797.6
20°	5060.5	5028.8	4999.7	4958.3	4933.9	4902.3	4870.6	4834.1	4804.9	4770.8	4744.1
22.5°	4965.6	4936.3	4909.6	4885.2	4846.3	4821.9	4800.1	4758.7	4729.4	4697.8	4668.6
25°	4829.2	4800.1	4778.1	4748.9	4731.9	4705.1	4683.2	4646.7	4619.9	4590.7	4566.3
27.5°	4605.3	4588.3	4576.1	4559.0	4544.5	4532.3	4520.2	4490.9	4471.5	4444.7	4420.4
30°	4269.4	4267.0	4259.7	4252.3	4262.1	4262.1	4262.1	4257.3	4240.2	4220.7	4203.7
32.5°	3838.6	3843.5	3853.2	3860.5	3879.9	3901.9	3921.3	3931.0	3931.0	3918.9	3911.6
35°	3325.0	3332.3	3346.9	3366.4	3390.7	3417.5	3461.2	3471.1	3478.3	3478.3	3468.6
37.5°	2791.9	2789.5	2804.1	2821.1	2835.8	2855.2	2886.9	2894.2	2906.3	2901.5	2891.7
40°	2273.4	2261.3	2256.4	2261.3	2278.3	2271.0	2278.3	2273.4	2273.4	2256.4	2256.4
42.5°	1793.9	1779.4	1769.5	1762.3	1762.3	1745.2	1733.1	1721.0	1713.6	1701.4	1699.0
45°	1382.6	1365.5	1353.4	1348.5	1341.2	1319.3	1304.7	1290.0	1273.0	1268.2	1270.6
47.5°	1073.4	1056.4	1051.5	1039.4	1027.1	1015.0	1005.3	988.3	985.8	976.0	985.8
50°	827.6	822.8	815.4	810.5	803.2	793.5	783.8	774.1	769.2	769.2	771.6
52.5°	642.6	645.0	637.7	630.4	625.6	625.6	613.4	611.0	611.0	601.2	611.0
55°	491.7	489.2	491.7	486.8	486.8	479.5	479.5	472.2	472.2	464.9	469.8
57.5°	360.3	365.1	360.3	362.7	367.6	360.3	357.8	350.5	355.4	350.5	353.0
60°	279.9	279.9	279.9	277.5	277.5	275.0	275.0	272.6	272.6	267.7	272.6
62.5°	206.9	209.3	209.3	209.3	211.8	209.3	206.9	209.3	206.9	206.9	209.3
65°	136.4	138.8	138.8	136.4	141.2	136.4	138.8	141.2	143.6	141.2	143.6
67.5°	92.5	92.5	95.0	97.4	95.0	97.4	99.8	97.4	99.8	104.7	99.8
70°	68.1	70.6	70.6	68.1	65.7	68.1	65.7	73.0	73.0	73.0	77.8
72.5°	43.8	43.8	41.4	41.4	41.4	41.4	41.4	48.7	43.8	41.4	46.3
75°	24.3	26.8	26.8	19.4	21.9	26.8	19.4	21.9	29.3	24.3	29.3
77.5°	14.6	14.6	14.6	14.6	14.6	14.6	19.4	17.0	17.0	17.0	19.4
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: P248617

CATALOG NUMBER: LSR8B90D010 EC8B90940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0
2.5°	4980.1	4980.1	4977.7	4972.9	4963.1	4963.1	4960.7	4953.4	4948.6	4946.1	4946.1
5°	4955.8	4946.1	4936.3	4909.6	4909.6	4904.7	4890.2	4880.3	4875.5	4863.3	4858.5
7.5°	4933.9	4904.7	4887.6	4870.6	4848.8	4839.0	4821.9	4814.6	4797.6	4785.5	4778.1
10°	4880.3	4860.9	4839.0	4812.2	4795.2	4775.7	4756.2	4741.7	4719.7	4707.5	4697.8
12.5°	4843.9	4814.6	4795.2	4765.9	4736.8	4719.7	4693.0	4675.9	4654.0	4629.7	4615.0
15°	4809.8	4778.1	4751.4	4719.7	4688.1	4668.6	4637.0	4617.5	4585.9	4561.5	4544.5
17.5°	4758.7	4731.9	4702.7	4663.7	4634.6	4610.2	4576.1	4551.8	4522.6	4490.9	4473.9
20°	4705.1	4673.4	4644.3	4605.3	4576.1	4546.9	4512.8	4486.1	4451.9	4422.8	4403.3
22.5°	4634.6	4598.0	4573.7	4534.7	4500.6	4469.1	4437.4	4405.7	4374.1	4349.7	4327.8
25°	4532.3	4493.3	4466.6	4434.9	4403.3	4379.0	4340.0	4320.6	4288.9	4267.0	4245.0
27.5°	4386.2	4357.0	4332.7	4301.0	4274.3	4254.9	4225.6	4206.2	4179.3	4159.9	4142.8
30°	4172.1	4147.7	4125.8	4094.1	4074.7	4057.7	4030.8	4013.8	3994.4	3972.4	3967.6
32.5°	3884.9	3865.3	3843.5	3821.5	3806.9	3797.2	3775.2	3765.5	3746.1	3733.9	3721.7
35°	3451.5	3434.5	3422.4	3412.7	3407.7	3410.2	3405.3	3415.1	3419.9	3417.5	3419.9
37.5°	2884.5	2874.6	2879.5	2886.9	2911.2	2942.9	2972.0	3015.8	3045.1	3074.3	3101.1
40°	2251.6	2258.9	2278.3	2322.1	2385.4	2456.0	2521.8	2604.5	2687.3	2745.7	2799.2
42.5°	1699.0	1721.0	1769.5	1832.9	1927.8	2032.4	2134.7	2256.4	2356.3	2453.5	2521.8
45°	1277.9	1307.1	1370.4	1458.1	1562.7	1684.4	1813.4	1949.7	2069.0	2168.8	2244.2
47.5°	995.6	1022.3	1085.7	1178.1	1307.1	1433.7	1567.6	1708.7	1832.9	1930.3	1996.0
50°	786.2	820.3	876.3	973.6	1102.7	1236.5	1375.3	1514.0	1630.9	1713.6	1772.1
52.5°	618.3	649.9	703.4	805.7	937.2	1071.0	1200.0	1336.3	1438.5	1518.9	1557.8
55°	479.5	508.8	564.7	649.9	774.1	905.5	1034.5	1151.4	1246.3	1304.7	1341.2
57.5°	365.1	387.0	426.0	511.2	623.2	744.8	854.4	971.2	1044.3	1085.7	1109.9
60°	277.5	294.6	335.9	401.7	503.9	608.6	701.0	788.7	847.1	881.2	905.5
62.5°	209.3	228.8	258.0	314.0	391.8	477.1	555.0	620.7	669.4	691.3	708.3
65°	143.6	158.2	180.1	223.9	289.6	350.5	411.4	460.1	491.7	516.1	525.8
67.5°	107.1	116.8	129.0	163.1	209.3	258.0	299.4	333.4	367.6	377.3	394.3
70°	80.4	87.7	99.8	124.1	150.9	184.9	219.1	238.6	262.9	279.9	284.8
72.5°	51.1	53.5	65.7	80.4	102.2	124.1	146.1	163.1	177.7	187.5	192.3
75°	29.3	43.8	43.8	58.4	73.0	82.8	97.4	109.5	116.8	124.1	124.1
77.5°	19.4	26.8	29.3	36.5	43.8	56.0	68.1	75.4	82.8	85.2	85.2
80°	17.0	19.4	19.4	26.8	31.7	41.4	48.7	51.1	56.0	58.4	63.3
82.5°	7.3	9.7	12.1	19.4	21.9	21.9	29.3	31.7	36.5	39.0	39.0
85°	2.4	4.9	4.9	7.3	12.1	14.6	17.0	19.4	21.9	21.9	24.3
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: P248617

CATALOG NUMBER: LSR8B90D010 EC8B90940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0	4985.0
2.5°	4941.3	4943.7	4933.9	4931.5	4926.6	4929.0	4933.9
5°	4851.2	4853.6	4843.9	4834.1	4834.1	4831.6	4834.1
7.5°	4765.9	4768.4	4753.8	4748.9	4739.2	4741.7	4741.7
10°	4680.8	4680.8	4658.9	4656.4	4649.1	4646.7	4646.7
12.5°	4598.0	4590.7	4573.7	4563.9	4568.8	4554.2	4554.2
15°	4525.0	4512.8	4490.9	4483.6	4471.5	4466.6	4466.6
17.5°	4449.5	4439.8	4420.4	4405.7	4391.1	4388.7	4391.1
20°	4376.5	4366.8	4342.4	4332.7	4320.6	4320.6	4315.7
22.5°	4303.4	4293.7	4271.9	4264.6	4247.5	4247.5	4249.9
25°	4228.0	4220.7	4196.3	4191.5	4189.1	4179.3	4184.2
27.5°	4125.8	4120.9	4101.5	4094.1	4084.4	4082.0	4086.8
30°	3938.4	3931.0	3916.5	3909.2	3892.2	3894.6	3899.4
32.5°	3704.7	3695.0	3675.5	3668.1	3653.6	3648.7	3651.1
35°	3412.7	3405.3	3388.3	3388.3	3373.7	3368.8	3373.7
37.5°	3115.7	3122.9	3115.7	3122.9	3115.7	3113.2	3115.7
40°	2835.8	2862.5	2867.3	2894.2	2884.5	2899.0	2896.6
42.5°	2568.0	2611.7	2628.9	2650.7	2645.9	2655.6	2662.9
45°	2297.7	2334.3	2351.3	2366.0	2368.4	2373.3	2375.7
47.5°	2042.2	2071.4	2073.8	2090.9	2088.5	2088.5	2095.8
50°	1803.7	1823.1	1828.0	1840.2	1830.5	1825.6	1828.0
52.5°	1582.2	1601.6	1596.7	1601.6	1589.5	1584.6	1587.0
55°	1355.8	1365.5	1365.5	1365.5	1351.0	1351.0	1351.0
57.5°	1124.5	1127.0	1122.1	1124.5	1122.1	1107.5	1105.1
60°	912.8	912.8	910.3	912.8	905.5	898.2	898.2
62.5°	713.1	718.1	727.8	718.1	713.1	718.1	710.7
65°	533.1	542.8	540.3	545.2	542.8	542.8	537.9
67.5°	401.7	404.1	406.5	409.0	409.0	409.0	409.0
70°	294.6	301.9	299.4	299.4	299.4	299.4	314.0
72.5°	197.2	206.9	204.5	209.3	209.3	214.2	209.3
75°	133.9	143.6	138.8	146.1	143.6	138.8	150.9
77.5°	90.1	95.0	97.4	99.8	97.4	95.0	97.4
80°	63.3	68.1	65.7	68.1	68.1	68.1	70.6
82.5°	39.0	46.3	43.8	46.3	43.8	46.3	46.3
85°	26.8	29.3	24.3	29.3	26.8	26.8	31.7
87.5°	17.0	14.6	14.6	17.0	14.6	17.0	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)