

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: P248716

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248716
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 EC8B90935 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7969.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

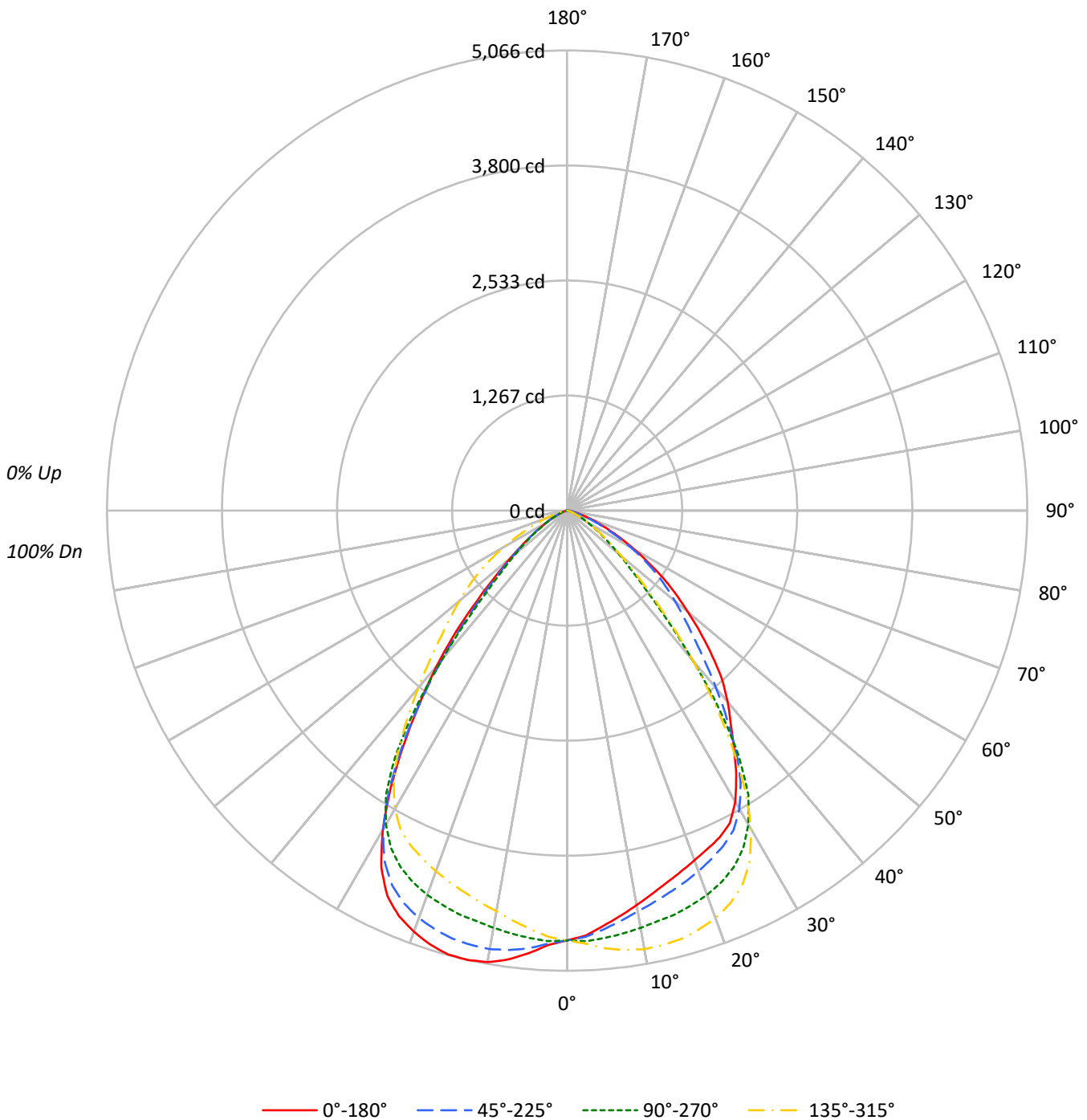
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	145884	145884	145884	145884
5°	142008	146227	151449	146227
10°	138080	146036	158044	146036
15°	135323	146902	161504	146902
20°	134402	147744	161917	147744
25°	135106	147447	159318	147447
30°	131766	142049	144602	142049
35°	120525	123917	117570	123917
40°	110654	86200	90016	86200
45°	98321	52584	60843	52584
50°	83223	35126	39007	35126
55°	68928	23967	25332	23967
60°	52570	15955	16097	15955
65°	37249	9945	9099	9945
70°	26867	6663	6041	6663
75°	17061	3312	2752	3312
80°	11898	2468	2042	2468
85°	10614	0	814	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.3	5.7
10°-20°	1304.0	16.4
20°-30°	1974.5	24.8
30°-40°	1978.9	24.8
40°-50°	1242.7	15.6
50°-60°	662.2	8.3
60°-70°	272.3	3.4
70°-80°	71.9	0.9
80°-90°	12.2	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°	3728.8	46.8
0°-40°	5707.7	71.6
0°-60°	7612.6	95.5
0°-90°	7969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7969.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4731	4731	4731	4731	4731	
5°	4588	4724	4893	4724	4588	433
15°	4239	4602	5059	4602	4239	1199
25°	3971	4334	4682	4334	3971	1821
35°	3202	3292	3123	3292	3202	2006
45°	2255	1206	1395	1206	2255	1734
55°	1282	446	471	446	1282	1143
65°	510	136	125	136	510	530
75°	143	28	23	28	143	162
85°	30	0	2	0	30	33
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°	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9
2.5°	4682.5	4677.8	4675.5	4680.2	4682.5	4691.7	4689.4	4694.0	4694.0	4696.3	4700.9
5°	4587.7	4585.4	4587.7	4587.7	4597.0	4606.2	4603.9	4610.9	4615.4	4627.0	4631.6
7.5°	4500.0	4500.0	4497.6	4506.8	4511.5	4525.4	4523.0	4534.6	4541.5	4553.0	4569.2
10°	4409.8	4409.8	4412.1	4419.1	4421.4	4442.2	4442.2	4458.3	4467.6	4479.2	4500.0
12.5°	4322.1	4322.1	4336.0	4331.3	4340.5	4356.7	4363.6	4379.8	4393.7	4416.8	4437.6
15°	4238.9	4238.9	4243.5	4255.1	4262.0	4282.8	4294.3	4312.9	4329.0	4352.1	4382.2
17.5°	4167.3	4165.0	4167.3	4181.2	4195.1	4213.5	4222.7	4245.8	4262.0	4292.0	4319.8
20°	4095.7	4100.4	4100.4	4111.9	4121.1	4144.2	4153.4	4178.9	4197.3	4225.0	4257.4
22.5°	4033.3	4031.0	4031.0	4047.2	4054.1	4074.9	4084.1	4107.2	4128.0	4151.1	4181.2
25°	3970.9	3966.3	3975.6	3977.9	3982.5	4005.6	4012.5	4028.7	4049.5	4070.3	4100.4
27.5°	3878.5	3874.0	3876.2	3885.5	3892.4	3910.9	3915.5	3931.7	3947.8	3966.3	3991.8
30°	3700.6	3696.1	3693.8	3709.9	3716.9	3730.7	3737.6	3765.4	3769.9	3790.8	3809.2
32.5°	3465.0	3462.7	3467.4	3481.2	3488.1	3506.7	3515.9	3532.0	3543.5	3555.1	3573.6
35°	3201.7	3197.1	3201.7	3215.6	3215.6	3231.8	3238.7	3245.6	3243.3	3245.6	3241.0
37.5°	2956.9	2954.5	2956.9	2963.7	2956.9	2963.7	2956.9	2943.0	2917.6	2889.9	2862.1
40°	2748.9	2751.2	2737.4	2746.7	2721.2	2716.6	2691.2	2656.5	2605.7	2550.3	2471.8
42.5°	2527.2	2520.3	2511.0	2515.6	2494.9	2478.6	2437.1	2393.2	2328.5	2236.2	2141.4
45°	2254.6	2252.3	2247.7	2245.4	2231.5	2215.3	2180.6	2129.9	2058.3	1963.6	1850.3
47.5°	1988.9	1982.0	1982.0	1984.3	1968.1	1965.8	1938.1	1894.2	1831.9	1739.4	1621.6
50°	1734.8	1732.5	1737.2	1746.4	1734.8	1730.2	1711.8	1681.7	1626.3	1547.8	1436.8
52.5°	1506.1	1503.8	1508.5	1520.0	1515.3	1520.0	1501.5	1478.4	1441.5	1365.2	1268.2
55°	1282.1	1282.1	1282.1	1295.9	1295.9	1295.9	1286.7	1272.9	1238.2	1182.7	1092.7
57.5°	1048.8	1051.0	1064.9	1067.2	1064.9	1069.6	1067.2	1053.3	1030.3	991.0	921.7
60°	852.4	852.4	859.4	866.3	863.9	866.3	866.3	859.4	836.3	803.9	748.5
62.5°	674.5	681.5	676.8	681.5	690.7	681.5	676.8	672.2	656.1	635.2	589.0
65°	510.5	515.2	515.2	517.4	512.8	515.2	505.9	499.0	489.8	466.7	436.6
67.5°	388.1	388.1	388.1	388.1	385.8	383.5	381.2	374.2	358.1	348.9	316.4
70°	298.0	284.1	284.1	284.1	284.1	286.5	279.5	270.3	265.7	249.5	226.4
72.5°	198.6	203.3	198.6	198.6	194.1	196.3	187.1	182.5	177.9	168.7	154.8
75°	143.2	131.7	136.3	138.6	131.7	136.3	127.0	117.8	117.8	110.9	103.9
77.5°	92.4	90.1	92.4	94.7	92.4	90.1	85.5	80.8	80.8	78.5	71.6
80°	67.0	64.7	64.7	64.7	62.4	64.7	60.1	60.1	55.4	53.2	48.5
82.5°	43.9	43.9	41.6	43.9	41.6	43.9	37.0	37.0	37.0	34.6	30.0
85°	30.0	25.4	25.4	27.8	23.1	27.8	25.4	23.1	20.8	20.8	18.4
87.5°	13.9	16.2	13.9	16.2	13.9	13.9	16.2	13.9	13.9	9.2	9.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9
2.5°	4707.8	4710.1	4710.1	4719.4	4724.0	4726.3	4726.3	4744.8	4737.9	4742.5	4747.1
5°	4640.9	4654.7	4659.3	4659.3	4684.7	4694.0	4703.2	4724.0	4726.3	4740.2	4756.3
7.5°	4576.1	4592.3	4601.6	4622.4	4638.5	4654.7	4682.5	4696.3	4710.1	4728.7	4749.4
10°	4513.8	4532.3	4550.8	4566.9	4592.3	4613.1	4631.6	4663.9	4680.2	4705.6	4733.2
12.5°	4453.8	4479.2	4495.3	4523.0	4550.8	4569.2	4597.0	4627.0	4652.4	4677.8	4710.1
15°	4400.6	4430.7	4449.1	4479.2	4509.2	4534.6	4564.6	4601.6	4620.1	4650.1	4680.2
17.5°	4342.8	4375.2	4398.3	4426.0	4463.0	4490.7	4516.2	4553.0	4576.1	4608.5	4643.2
20°	4282.8	4315.1	4342.8	4370.6	4407.6	4435.2	4465.3	4502.3	4527.7	4560.0	4587.7
22.5°	4211.2	4241.3	4271.2	4303.5	4340.5	4363.6	4398.3	4430.7	4458.3	4488.4	4516.2
25°	4118.8	4155.8	4178.9	4208.8	4238.9	4264.3	4301.3	4333.6	4356.7	4384.5	4409.8
27.5°	4010.2	4038.0	4056.4	4081.8	4111.9	4135.0	4162.6	4195.1	4218.2	4243.5	4262.0
30°	3825.4	3850.9	3867.0	3885.5	3915.5	3936.3	3959.4	3989.4	4005.6	4024.1	4040.3
32.5°	3582.8	3603.6	3612.9	3626.7	3647.6	3668.3	3686.8	3712.2	3719.2	3730.7	3730.7
35°	3231.8	3236.3	3234.1	3238.7	3247.9	3259.4	3275.6	3291.8	3301.0	3301.0	3294.1
37.5°	2820.5	2792.9	2762.8	2739.7	2732.8	2728.1	2737.4	2744.3	2753.6	2758.2	2746.7
40°	2393.2	2330.9	2263.8	2203.7	2162.2	2143.7	2136.8	2141.4	2141.4	2157.5	2157.5
42.5°	2025.9	1928.9	1829.6	1739.4	1679.4	1633.2	1612.4	1612.4	1614.7	1626.3	1633.2
45°	1721.0	1598.5	1483.0	1383.7	1300.5	1240.5	1212.8	1205.8	1203.6	1208.1	1224.3
47.5°	1487.7	1360.6	1240.5	1118.1	1030.3	970.2	944.8	935.5	926.3	935.5	937.9
50°	1305.2	1173.5	1046.5	924.0	831.6	778.4	746.1	732.2	730.0	730.0	734.6
52.5°	1138.8	1016.4	889.4	764.7	667.6	616.8	586.8	579.8	570.6	579.8	579.8
55°	981.7	859.4	734.6	616.8	535.9	482.8	455.1	445.8	441.2	448.1	448.1
57.5°	810.9	706.8	591.4	485.1	404.3	367.3	346.5	335.0	332.6	337.3	332.6
60°	665.3	577.5	478.2	381.2	318.8	279.5	263.4	258.7	254.1	258.7	258.7
62.5°	526.7	452.8	371.9	298.0	244.8	217.2	198.6	198.6	196.3	196.3	198.6
65°	390.4	332.6	274.9	212.5	171.0	150.1	136.3	136.3	134.0	136.3	134.0
67.5°	284.1	244.8	198.6	154.8	122.5	110.9	101.6	94.7	99.4	94.7	92.4
70°	207.9	175.5	143.2	117.8	94.7	83.2	76.3	73.9	69.3	69.3	69.3
72.5°	138.6	117.8	97.0	76.3	62.4	50.8	48.5	43.9	39.3	41.6	46.2
75°	92.4	78.5	69.3	55.4	41.6	41.6	27.8	27.8	23.1	27.8	20.8
77.5°	64.7	53.2	41.6	34.6	27.8	25.4	18.4	18.4	16.2	16.2	16.2
80°	46.2	39.3	30.0	25.4	18.4	18.4	16.2	13.9	11.5	11.5	13.9
82.5°	27.8	20.8	20.8	18.4	11.5	9.2	6.9	9.2	4.7	4.7	4.7
85°	16.2	13.9	11.5	6.9	4.7	4.7	2.3	0.0	2.3	2.3	0.0
87.5°	9.2	4.7	4.7	2.3	0.0	2.3	2.3	0.0	0.0	0.0	4.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9
2.5°	4758.7	4756.3	4761.0	4761.0	4774.9	4772.5	4779.4	4779.4	4774.9	4777.2	4786.4
5°	4774.9	4781.8	4795.6	4807.2	4827.9	4837.2	4848.8	4860.4	4862.6	4869.6	4876.5
7.5°	4774.9	4798.0	4814.1	4834.9	4862.6	4878.8	4904.2	4925.0	4934.2	4945.7	4959.6
10°	4765.6	4788.7	4818.7	4841.8	4876.5	4901.9	4927.3	4959.6	4973.5	4991.9	5010.5
12.5°	4747.1	4772.5	4804.8	4834.9	4874.1	4897.2	4929.6	4959.6	4980.4	5005.8	5026.7
15°	4719.4	4749.4	4779.4	4809.5	4851.0	4878.8	4908.8	4943.5	4964.3	4991.9	5010.5
17.5°	4675.5	4707.8	4735.6	4763.3	4802.5	4834.9	4862.6	4895.0	4915.8	4938.9	4964.3
20°	4622.4	4652.4	4682.5	4705.6	4744.8	4772.5	4802.5	4832.6	4848.8	4853.4	4892.7
22.5°	4555.4	4576.1	4599.3	4636.2	4659.3	4684.7	4712.5	4740.2	4756.3	4781.8	4795.6
25°	4444.5	4465.3	4490.7	4506.8	4534.6	4555.4	4583.1	4613.1	4622.4	4640.9	4654.7
27.5°	4289.8	4301.3	4312.9	4326.7	4342.8	4354.4	4370.6	4384.5	4393.7	4402.9	4412.1
30°	4044.8	4044.8	4044.8	4035.6	4042.5	4049.5	4051.8	4049.5	4049.5	4047.2	4047.2
32.5°	3721.4	3703.0	3682.2	3663.7	3656.8	3647.6	3642.9	3636.0	3624.5	3617.5	3619.8
35°	3284.8	3243.3	3217.9	3194.8	3176.3	3162.5	3155.5	3148.6	3146.3	3137.1	3127.8
37.5°	2739.7	2709.7	2691.2	2677.3	2661.2	2647.3	2649.6	2652.0	2658.8	2654.2	2656.5
40°	2162.2	2155.2	2162.2	2146.0	2141.4	2146.0	2157.5	2173.8	2183.0	2192.2	2208.4
42.5°	1644.7	1656.2	1672.5	1672.5	1679.4	1688.7	1702.5	1727.9	1741.7	1757.9	1776.4
45°	1238.2	1252.1	1272.9	1279.7	1284.4	1295.9	1312.1	1332.9	1342.1	1356.0	1372.1
47.5°	954.1	963.3	974.8	986.4	997.9	1002.6	1018.7	1018.7	1030.3	1039.5	1044.1
50°	743.8	753.1	762.3	769.2	773.9	780.8	785.4	792.3	794.6	799.3	801.5
52.5°	582.1	593.7	593.7	598.3	605.2	612.1	609.9	612.1	614.4	614.4	621.4
55°	455.1	455.1	462.0	462.0	466.7	464.3	466.7	466.7	466.7	466.7	468.9
57.5°	339.5	341.9	348.9	344.2	341.9	346.5	341.9	346.5	344.2	348.9	341.9
60°	261.0	261.0	263.4	263.4	265.7	265.7	265.7	263.4	263.4	261.0	261.0
62.5°	196.3	198.6	201.0	198.6	198.6	198.6	196.3	196.3	194.1	191.7	191.7
65°	131.7	129.4	134.0	129.4	131.7	131.7	129.4	131.7	124.7	127.0	124.7
67.5°	94.7	92.4	90.1	92.4	90.1	87.8	87.8	90.1	92.4	85.5	85.5
70°	62.4	64.7	62.4	64.7	67.0	67.0	64.7	62.4	64.7	60.1	62.4
72.5°	39.3	39.3	39.3	39.3	39.3	41.6	41.6	41.6	37.0	37.0	34.6
75°	18.4	25.4	20.8	18.4	25.4	25.4	23.1	23.1	20.8	20.8	20.8
77.5°	18.4	13.9	13.9	13.9	13.9	13.9	13.9	13.9	11.5	13.9	11.5
80°	9.2	9.2	9.2	6.9	9.2	9.2	11.5	9.2	9.2	6.9	11.5
82.5°	4.7	4.7	4.7	0.0	2.3	4.7	4.7	2.3	4.7	4.7	2.3
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: P248716

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9
2.5°	4784.1	4781.8	4784.1	4786.4	4784.1	4781.8	4784.1	4786.4	4777.2	4774.9	4779.4
5°	4885.7	4885.7	4890.3	4892.7	4890.3	4885.7	4885.7	4876.5	4869.6	4862.6	4860.4
7.5°	4973.5	4978.2	4982.7	4985.0	4982.7	4978.2	4973.5	4959.6	4945.7	4934.2	4925.0
10°	5026.7	5033.6	5042.8	5047.4	5042.8	5033.6	5026.7	5010.5	4991.9	4973.5	4959.6
12.5°	5049.8	5056.7	5068.2	5065.9	5068.2	5056.7	5049.8	5026.7	5005.8	4980.4	4959.6
15°	5033.6	5042.8	5054.3	5059.0	5054.3	5042.8	5033.6	5010.5	4991.9	4964.3	4943.5
17.5°	4982.7	4996.6	5003.5	5010.5	5003.5	4996.6	4982.7	4964.3	4938.9	4915.8	4895.0
20°	4913.4	4922.7	4931.9	4934.2	4931.9	4922.7	4913.4	4892.7	4853.4	4848.8	4832.6
22.5°	4814.1	4821.1	4841.8	4834.9	4841.8	4821.1	4814.1	4795.6	4781.8	4756.3	4740.2
25°	4670.9	4677.8	4680.2	4682.5	4680.2	4677.8	4670.9	4654.7	4640.9	4622.4	4613.1
27.5°	4423.7	4423.7	4428.3	4430.7	4428.3	4423.7	4423.7	4412.1	4402.9	4393.7	4384.5
30°	4049.5	4049.5	4049.5	4061.1	4049.5	4049.5	4049.5	4047.2	4047.2	4049.5	4049.5
32.5°	3617.5	3612.9	3608.3	3612.9	3608.3	3612.9	3617.5	3619.8	3617.5	3624.5	3636.0
35°	3127.8	3125.5	3132.4	3123.2	3132.4	3125.5	3127.8	3127.8	3137.1	3146.3	3148.6
37.5°	2658.8	2654.2	2663.5	2654.2	2663.5	2654.2	2658.8	2656.5	2654.2	2658.8	2652.0
40°	2213.1	2217.6	2217.6	2236.2	2217.6	2217.6	2213.1	2208.4	2192.2	2183.0	2173.8
42.5°	1785.7	1799.5	1794.9	1808.8	1794.9	1799.5	1785.7	1776.4	1757.9	1741.7	1727.9
45°	1381.4	1390.7	1390.7	1395.2	1390.7	1390.7	1381.4	1372.1	1356.0	1342.1	1332.9
47.5°	1060.3	1060.3	1060.3	1062.6	1060.3	1060.3	1060.3	1044.1	1039.5	1030.3	1018.7
50°	806.2	808.5	810.9	813.1	810.9	808.5	806.2	801.5	799.3	794.6	792.3
52.5°	619.1	621.4	616.8	621.4	616.8	621.4	619.1	621.4	614.4	614.4	612.1
55°	468.9	466.7	468.9	471.2	468.9	466.7	468.9	468.9	466.7	466.7	466.7
57.5°	344.2	339.5	339.5	339.5	339.5	339.5	344.2	341.9	348.9	344.2	346.5
60°	256.4	258.7	258.7	261.0	258.7	258.7	256.4	261.0	261.0	263.4	263.4
62.5°	189.4	196.3	191.7	196.3	191.7	196.3	189.4	191.7	191.7	194.1	196.3
65°	122.5	122.5	122.5	124.7	122.5	122.5	122.5	124.7	127.0	124.7	131.7
67.5°	83.2	85.5	90.1	87.8	90.1	85.5	83.2	85.5	85.5	92.4	90.1
70°	67.0	60.1	60.1	67.0	60.1	60.1	67.0	62.4	60.1	64.7	62.4
72.5°	39.3	34.6	39.3	39.3	39.3	34.6	39.3	34.6	37.0	37.0	41.6
75°	20.8	18.4	16.2	23.1	16.2	18.4	20.8	20.8	20.8	20.8	23.1
77.5°	13.9	11.5	16.2	16.2	16.2	11.5	13.9	11.5	13.9	11.5	13.9
80°	6.9	9.2	6.9	11.5	6.9	9.2	6.9	11.5	6.9	9.2	9.2
82.5°	2.3	4.7	4.7	4.7	4.7	4.7	2.3	2.3	4.7	4.7	2.3
85°	0.0	4.7	2.3	2.3	2.3	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.0	0.0	2.3	0.0	0.0	2.3	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: P248716

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9
2.5°	4779.4	4772.5	4774.9	4761.0	4761.0	4756.3	4758.7	4747.1	4742.5	4737.9	4744.8
5°	4848.8	4837.2	4827.9	4807.2	4795.6	4781.8	4774.9	4756.3	4740.2	4726.3	4724.0
7.5°	4904.2	4878.8	4862.6	4834.9	4814.1	4798.0	4774.9	4749.4	4728.7	4710.1	4696.3
10°	4927.3	4901.9	4876.5	4841.8	4818.7	4788.7	4765.6	4733.2	4705.6	4680.2	4663.9
12.5°	4929.6	4897.2	4874.1	4834.9	4804.8	4772.5	4747.1	4710.1	4677.8	4652.4	4627.0
15°	4908.8	4878.8	4851.0	4809.5	4779.4	4749.4	4719.4	4680.2	4650.1	4620.1	4601.6
17.5°	4862.6	4834.9	4802.5	4763.3	4735.6	4707.8	4675.5	4643.2	4608.5	4576.1	4553.0
20°	4802.5	4772.5	4744.8	4705.6	4682.5	4652.4	4622.4	4587.7	4560.0	4527.7	4502.3
22.5°	4712.5	4684.7	4659.3	4636.2	4599.3	4576.1	4555.4	4516.2	4488.4	4458.3	4430.7
25°	4583.1	4555.4	4534.6	4506.8	4490.7	4465.3	4444.5	4409.8	4384.5	4356.7	4333.6
27.5°	4370.6	4354.4	4342.8	4326.7	4312.9	4301.3	4289.8	4262.0	4243.5	4218.2	4195.1
30°	4051.8	4049.5	4042.5	4035.6	4044.8	4044.8	4044.8	4040.3	4024.1	4005.6	3989.4
32.5°	3642.9	3647.6	3656.8	3663.7	3682.2	3703.0	3721.4	3730.7	3730.7	3719.2	3712.2
35°	3155.5	3162.5	3176.3	3194.8	3217.9	3243.3	3284.8	3294.1	3301.0	3301.0	3291.8
37.5°	2649.6	2647.3	2661.2	2677.3	2691.2	2709.7	2739.7	2746.7	2758.2	2753.6	2744.3
40°	2157.5	2146.0	2141.4	2146.0	2162.2	2155.2	2162.2	2157.5	2157.5	2141.4	2141.4
42.5°	1702.5	1688.7	1679.4	1672.5	1672.5	1656.2	1644.7	1633.2	1626.3	1614.7	1612.4
45°	1312.1	1295.9	1284.4	1279.7	1272.9	1252.1	1238.2	1224.3	1208.1	1203.6	1205.8
47.5°	1018.7	1002.6	997.9	986.4	974.8	963.3	954.1	937.9	935.5	926.3	935.5
50°	785.4	780.8	773.9	769.2	762.3	753.1	743.8	734.6	730.0	730.0	732.2
52.5°	609.9	612.1	605.2	598.3	593.7	593.7	582.1	579.8	579.8	570.6	579.8
55°	466.7	464.3	466.7	462.0	462.0	455.1	455.1	448.1	448.1	441.2	445.8
57.5°	341.9	346.5	341.9	344.2	348.9	341.9	339.5	332.6	337.3	332.6	335.0
60°	265.7	265.7	265.7	263.4	263.4	261.0	261.0	258.7	258.7	254.1	258.7
62.5°	196.3	198.6	198.6	198.6	201.0	198.6	196.3	198.6	196.3	196.3	198.6
65°	129.4	131.7	131.7	129.4	134.0	129.4	131.7	134.0	136.3	134.0	136.3
67.5°	87.8	87.8	90.1	92.4	90.1	92.4	94.7	92.4	94.7	99.4	94.7
70°	64.7	67.0	67.0	64.7	62.4	64.7	62.4	69.3	69.3	69.3	73.9
72.5°	41.6	41.6	39.3	39.3	39.3	39.3	39.3	46.2	41.6	39.3	43.9
75°	23.1	25.4	25.4	18.4	20.8	25.4	18.4	20.8	27.8	23.1	27.8
77.5°	13.9	13.9	13.9	13.9	13.9	13.9	18.4	16.2	16.2	16.2	18.4
80°	11.5	9.2	9.2	6.9	9.2	9.2	9.2	13.9	11.5	11.5	13.9
82.5°	4.7	4.7	2.3	0.0	4.7	4.7	4.7	4.7	4.7	4.7	9.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	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: P248716

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9
2.5°	4726.3	4726.3	4724.0	4719.4	4710.1	4710.1	4707.8	4700.9	4696.3	4694.0	4694.0
5°	4703.2	4694.0	4684.7	4659.3	4659.3	4654.7	4640.9	4631.6	4627.0	4615.4	4610.9
7.5°	4682.5	4654.7	4638.5	4622.4	4601.6	4592.3	4576.1	4569.2	4553.0	4541.5	4534.6
10°	4631.6	4613.1	4592.3	4566.9	4550.8	4532.3	4513.8	4500.0	4479.2	4467.6	4458.3
12.5°	4597.0	4569.2	4550.8	4523.0	4495.3	4479.2	4453.8	4437.6	4416.8	4393.7	4379.8
15°	4564.6	4534.6	4509.2	4479.2	4449.1	4430.7	4400.6	4382.2	4352.1	4329.0	4312.9
17.5°	4516.2	4490.7	4463.0	4426.0	4398.3	4375.2	4342.8	4319.8	4292.0	4262.0	4245.8
20°	4465.3	4435.2	4407.6	4370.6	4342.8	4315.1	4282.8	4257.4	4225.0	4197.3	4178.9
22.5°	4398.3	4363.6	4340.5	4303.5	4271.2	4241.3	4211.2	4181.2	4151.1	4128.0	4107.2
25°	4301.3	4264.3	4238.9	4208.8	4178.9	4155.8	4118.8	4100.4	4070.3	4049.5	4028.7
27.5°	4162.6	4135.0	4111.9	4081.8	4056.4	4038.0	4010.2	3991.8	3966.3	3947.8	3931.7
30°	3959.4	3936.3	3915.5	3885.5	3867.0	3850.9	3825.4	3809.2	3790.8	3769.9	3765.4
32.5°	3686.8	3668.3	3647.6	3626.7	3612.9	3603.6	3582.8	3573.6	3555.1	3543.5	3532.0
35°	3275.6	3259.4	3247.9	3238.7	3234.1	3236.3	3231.8	3241.0	3245.6	3243.3	3245.6
37.5°	2737.4	2728.1	2732.8	2739.7	2762.8	2792.9	2820.5	2862.1	2889.9	2917.6	2943.0
40°	2136.8	2143.7	2162.2	2203.7	2263.8	2330.9	2393.2	2471.8	2550.3	2605.7	2656.5
42.5°	1612.4	1633.2	1679.4	1739.4	1829.6	1928.9	2025.9	2141.4	2236.2	2328.5	2393.2
45°	1212.8	1240.5	1300.5	1383.7	1483.0	1598.5	1721.0	1850.3	1963.6	2058.3	2129.9
47.5°	944.8	970.2	1030.3	1118.1	1240.5	1360.6	1487.7	1621.6	1739.4	1831.9	1894.2
50°	746.1	778.4	831.6	924.0	1046.5	1173.5	1305.2	1436.8	1547.8	1626.3	1681.7
52.5°	586.8	616.8	667.6	764.7	889.4	1016.4	1138.8	1268.2	1365.2	1441.5	1478.4
55°	455.1	482.8	535.9	616.8	734.6	859.4	981.7	1092.7	1182.7	1238.2	1272.9
57.5°	346.5	367.3	404.3	485.1	591.4	706.8	810.9	921.7	991.0	1030.3	1053.3
60°	263.4	279.5	318.8	381.2	478.2	577.5	665.3	748.5	803.9	836.3	859.4
62.5°	198.6	217.2	244.8	298.0	371.9	452.8	526.7	589.0	635.2	656.1	672.2
65°	136.3	150.1	171.0	212.5	274.9	332.6	390.4	436.6	466.7	489.8	499.0
67.5°	101.6	110.9	122.5	154.8	198.6	244.8	284.1	316.4	348.9	358.1	374.2
70°	76.3	83.2	94.7	117.8	143.2	175.5	207.9	226.4	249.5	265.7	270.3
72.5°	48.5	50.8	62.4	76.3	97.0	117.8	138.6	154.8	168.7	177.9	182.5
75°	27.8	41.6	41.6	55.4	69.3	78.5	92.4	103.9	110.9	117.8	117.8
77.5°	18.4	25.4	27.8	34.6	41.6	53.2	64.7	71.6	78.5	80.8	80.8
80°	16.2	18.4	18.4	25.4	30.0	39.3	46.2	48.5	53.2	55.4	60.1
82.5°	6.9	9.2	11.5	18.4	20.8	20.8	27.8	30.0	34.6	37.0	37.0
85°	2.3	4.7	4.7	6.9	11.5	13.9	16.2	18.4	20.8	20.8	23.1
87.5°	2.3	2.3	0.0	2.3	4.7	4.7	9.2	9.2	9.2	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248716

CATALOG NUMBER: LSR8B90D010 EC8B90935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9	4730.9
2.5°	4689.4	4691.7	4682.5	4680.2	4675.5	4677.8	4682.5
5°	4603.9	4606.2	4597.0	4587.7	4587.7	4585.4	4587.7
7.5°	4523.0	4525.4	4511.5	4506.8	4497.6	4500.0	4500.0
10°	4442.2	4442.2	4421.4	4419.1	4412.1	4409.8	4409.8
12.5°	4363.6	4356.7	4340.5	4331.3	4336.0	4322.1	4322.1
15°	4294.3	4282.8	4262.0	4255.1	4243.5	4238.9	4238.9
17.5°	4222.7	4213.5	4195.1	4181.2	4167.3	4165.0	4167.3
20°	4153.4	4144.2	4121.1	4111.9	4100.4	4100.4	4095.7
22.5°	4084.1	4074.9	4054.1	4047.2	4031.0	4031.0	4033.3
25°	4012.5	4005.6	3982.5	3977.9	3975.6	3966.3	3970.9
27.5°	3915.5	3910.9	3892.4	3885.5	3876.2	3874.0	3878.5
30°	3737.6	3730.7	3716.9	3709.9	3693.8	3696.1	3700.6
32.5°	3515.9	3506.7	3488.1	3481.2	3467.4	3462.7	3465.0
35°	3238.7	3231.8	3215.6	3215.6	3201.7	3197.1	3201.7
37.5°	2956.9	2963.7	2956.9	2963.7	2956.9	2954.5	2956.9
40°	2691.2	2716.6	2721.2	2746.7	2737.4	2751.2	2748.9
42.5°	2437.1	2478.6	2494.9	2515.6	2511.0	2520.3	2527.2
45°	2180.6	2215.3	2231.5	2245.4	2247.7	2252.3	2254.6
47.5°	1938.1	1965.8	1968.1	1984.3	1982.0	1982.0	1988.9
50°	1711.8	1730.2	1734.8	1746.4	1737.2	1732.5	1734.8
52.5°	1501.5	1520.0	1515.3	1520.0	1508.5	1503.8	1506.1
55°	1286.7	1295.9	1295.9	1295.9	1282.1	1282.1	1282.1
57.5°	1067.2	1069.6	1064.9	1067.2	1064.9	1051.0	1048.8
60°	866.3	866.3	863.9	866.3	859.4	852.4	852.4
62.5°	676.8	681.5	690.7	681.5	676.8	681.5	674.5
65°	505.9	515.2	512.8	517.4	515.2	515.2	510.5
67.5°	381.2	383.5	385.8	388.1	388.1	388.1	388.1
70°	279.5	286.5	284.1	284.1	284.1	284.1	298.0
72.5°	187.1	196.3	194.1	198.6	198.6	203.3	198.6
75°	127.0	136.3	131.7	138.6	136.3	131.7	143.2
77.5°	85.5	90.1	92.4	94.7	92.4	90.1	92.4
80°	60.1	64.7	62.4	64.7	64.7	64.7	67.0
82.5°	37.0	43.9	41.6	43.9	41.6	43.9	43.9
85°	25.4	27.8	23.1	27.8	25.4	25.4	30.0
87.5°	16.2	13.9	13.9	16.2	13.9	16.2	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)