

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: P248905

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248905  
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 EC8B90850 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7296.0 lumens  
Efficiency: N/A  
Efficacy: 84.7 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

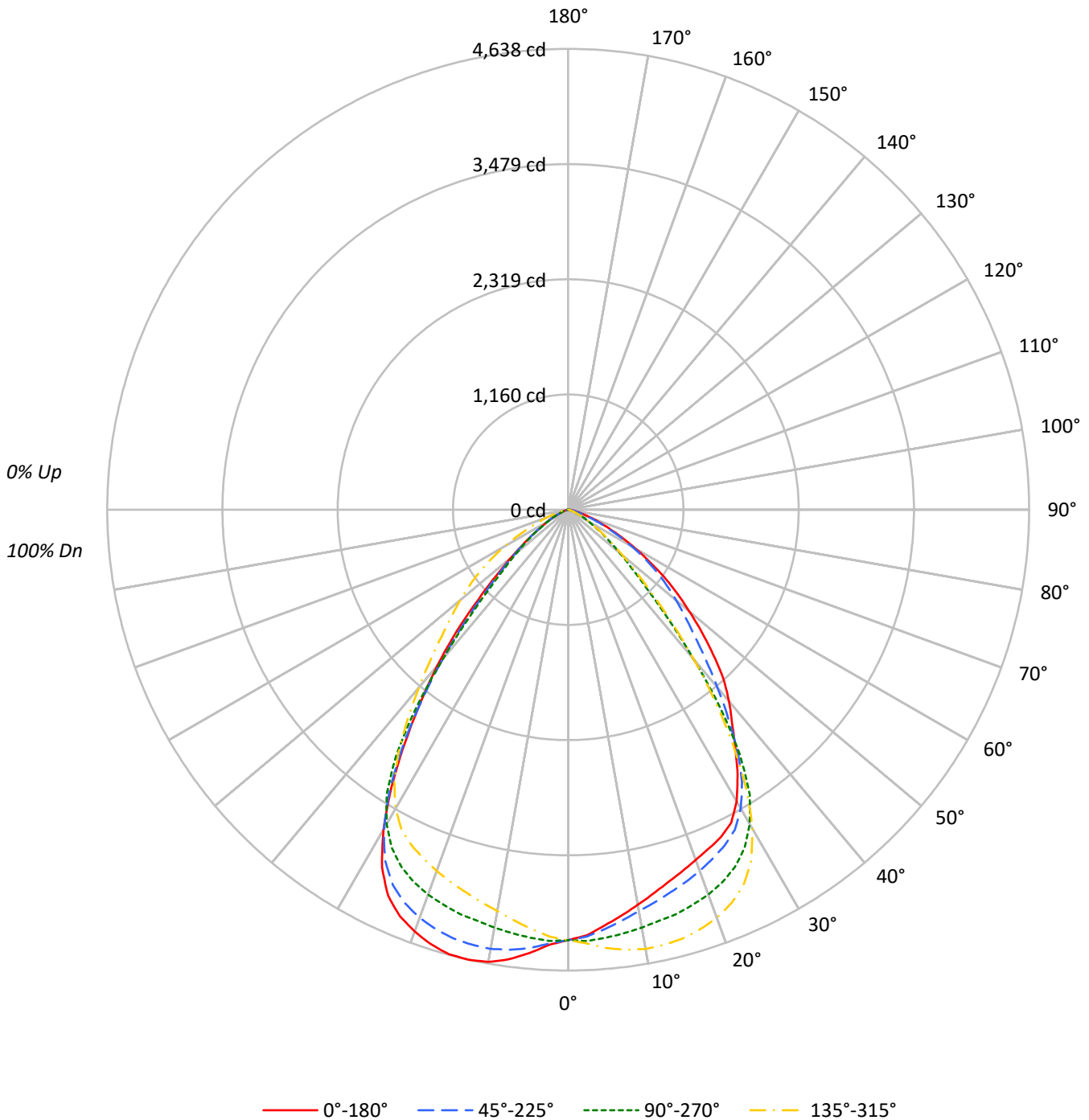
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	133564	133564	133564	133564
5°	130017	133877	138659	133877
10°	126419	133702	144696	133702
15°	123894	134496	147863	134496
20°	123051	135265	148243	135265
25°	123698	134994	145861	134994
30°	120639	130054	132389	130054
35°	110346	113452	107640	113452
40°	101311	78918	82412	78918
45°	90018	48144	55706	48144
50°	76195	32161	35716	32161
55°	63105	21945	23193	21945
60°	48129	14610	14740	14610
65°	34104	9099	8333	9099
70°	24595	6095	5536	6095
75°	15620	3026	2526	3026
80°	10903	2255	1865	2255
85°	9730	0	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.3	5.7
10°-20°	1193.9	16.4
20°-30°	1807.7	24.8
30°-40°	1811.8	24.8
40°-50°	1137.7	15.6
50°-60°	606.3	8.3
60°-70°	249.3	3.4
70°-80°	65.9	0.9
80°-90°	11.1	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°	3413.9	46.8
0°-40°	5225.7	71.6
0°-60°	6969.7	95.5
0°-90°	7296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7296.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4331	4331	4331	4331	4331	
5°	4200	4325	4480	4325	4200	396
15°	3881	4213	4632	4213	3881	1098
25°	3636	3968	4287	3968	3636	1667
35°	2931	3014	2859	3014	2931	1836
45°	2064	1104	1277	1104	2064	1588
55°	1174	408	431	408	1174	1047
65°	467	125	114	125	467	485
75°	131	25	21	25	131	149
85°	28	0	2	0	28	30
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°	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4
2.5°	4287.0	4282.7	4280.7	4284.9	4287.0	4295.5	4293.4	4297.5	4297.5	4299.7	4303.9
5°	4200.3	4198.1	4200.3	4200.3	4208.7	4217.2	4215.1	4221.5	4225.6	4236.3	4240.4
7.5°	4120.0	4120.0	4117.8	4126.2	4130.5	4143.2	4141.0	4151.6	4158.0	4168.5	4183.3
10°	4037.4	4037.4	4039.5	4045.9	4048.0	4067.0	4067.0	4081.8	4090.3	4100.9	4120.0
12.5°	3957.1	3957.1	3969.8	3965.5	3974.0	3988.8	3995.1	4009.9	4022.6	4043.8	4062.8
15°	3880.9	3880.9	3885.2	3895.7	3902.1	3921.1	3931.7	3948.6	3963.4	3984.6	4012.1
17.5°	3815.4	3813.3	3815.4	3828.1	3840.8	3857.7	3866.1	3887.3	3902.1	3929.6	3955.0
20°	3749.8	3754.1	3754.1	3764.6	3773.0	3794.2	3802.6	3826.0	3842.9	3868.2	3897.9
22.5°	3692.7	3690.6	3690.6	3705.4	3711.8	3730.7	3739.2	3760.3	3779.4	3800.6	3828.1
25°	3635.6	3631.3	3639.9	3641.9	3646.1	3667.3	3673.6	3688.4	3707.5	3726.6	3754.1
27.5°	3551.0	3546.8	3548.9	3557.3	3563.7	3580.6	3584.8	3599.6	3614.4	3631.3	3654.7
30°	3388.1	3383.9	3381.8	3396.6	3403.0	3415.6	3422.0	3447.4	3451.6	3470.6	3487.5
32.5°	3172.4	3170.3	3174.6	3187.2	3193.5	3210.5	3219.0	3233.8	3244.3	3254.9	3271.8
35°	2931.3	2927.1	2931.3	2944.0	2944.0	2958.8	2965.2	2971.5	2969.4	2971.5	2967.3
37.5°	2707.2	2705.0	2707.2	2713.4	2707.2	2713.4	2707.2	2694.5	2671.2	2645.8	2620.4
40°	2516.8	2518.9	2506.3	2514.7	2491.4	2487.2	2463.9	2432.2	2385.7	2334.9	2263.0
42.5°	2313.8	2307.4	2299.0	2303.2	2284.2	2269.3	2231.3	2191.1	2131.8	2047.3	1960.5
45°	2064.2	2062.1	2057.8	2055.8	2043.0	2028.2	1996.5	1950.0	1884.4	1797.7	1694.0
47.5°	1821.0	1814.6	1814.6	1816.7	1801.9	1799.8	1774.4	1734.3	1677.2	1592.5	1484.7
50°	1588.3	1586.2	1590.5	1598.9	1588.3	1584.1	1567.2	1539.7	1489.0	1417.0	1315.5
52.5°	1378.9	1376.8	1381.1	1391.6	1387.4	1391.6	1374.7	1353.6	1319.7	1249.9	1161.1
55°	1173.8	1173.8	1173.8	1186.4	1186.4	1186.4	1178.0	1165.4	1133.6	1082.9	1000.4
57.5°	960.2	962.3	975.0	977.1	975.0	979.3	977.1	964.4	943.3	907.4	843.9
60°	780.4	780.4	786.8	793.1	791.0	793.1	793.1	786.8	765.6	736.0	685.3
62.5°	617.6	623.9	619.6	623.9	632.4	623.9	619.6	615.5	600.7	581.6	539.3
65°	467.4	471.7	471.7	473.7	469.5	471.7	463.2	456.9	448.4	427.3	399.7
67.5°	355.3	355.3	355.3	355.3	353.2	351.1	349.0	342.6	327.8	319.4	289.7
70°	272.8	260.1	260.1	260.1	260.1	262.3	255.9	247.5	243.2	228.4	207.3
72.5°	181.9	186.1	181.9	181.9	177.7	179.8	171.3	167.1	162.9	154.4	141.7
75°	131.1	120.6	124.7	126.9	120.6	124.7	116.3	107.9	107.9	101.5	95.1
77.5°	84.6	82.5	84.6	86.7	84.6	82.5	78.3	74.0	74.0	71.9	65.6
80°	61.4	59.2	59.2	59.2	57.1	59.2	55.0	55.0	50.8	48.7	44.4
82.5°	40.2	40.2	38.0	40.2	38.0	40.2	33.9	33.9	33.9	31.7	27.5
85°	27.5	23.2	23.2	25.4	21.2	25.4	23.2	21.2	19.1	19.1	16.9
87.5°	12.7	14.8	12.7	14.8	12.7	12.7	14.8	12.7	12.7	8.4	8.4
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°	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4
2.5°	4310.3	4312.3	4312.3	4320.9	4325.0	4327.1	4327.1	4344.1	4337.8	4342.0	4346.2
5°	4249.0	4261.6	4265.9	4265.9	4289.1	4297.5	4306.0	4325.0	4327.1	4339.8	4354.6
7.5°	4189.7	4204.5	4213.0	4232.0	4246.8	4261.6	4287.0	4299.7	4312.3	4329.3	4348.3
10°	4132.6	4149.6	4166.4	4181.2	4204.5	4223.5	4240.4	4270.0	4284.9	4308.2	4333.5
12.5°	4077.6	4100.9	4115.7	4141.0	4166.4	4183.3	4208.7	4236.3	4259.5	4282.7	4312.3
15°	4029.0	4056.5	4073.4	4100.9	4128.4	4151.6	4179.1	4213.0	4229.9	4257.4	4284.9
17.5°	3976.1	4005.7	4026.9	4052.2	4086.1	4111.4	4134.8	4168.5	4189.7	4219.3	4251.1
20°	3921.1	3950.7	3976.1	4001.5	4035.3	4060.7	4088.2	4122.0	4145.3	4174.9	4200.3
22.5°	3855.6	3883.1	3910.5	3940.1	3974.0	3995.1	4026.9	4056.5	4081.8	4109.3	4134.8
25°	3771.0	3804.8	3826.0	3853.4	3880.9	3904.1	3938.0	3967.6	3988.8	4014.2	4037.4
27.5°	3671.5	3697.0	3713.9	3737.1	3764.6	3785.8	3811.1	3840.8	3861.9	3885.2	3902.1
30°	3502.3	3525.6	3540.4	3557.3	3584.8	3603.9	3625.1	3652.5	3667.3	3684.3	3699.1
32.5°	3280.2	3299.3	3307.7	3320.5	3339.5	3358.5	3375.5	3398.7	3405.1	3415.6	3415.6
35°	2958.8	2963.0	2960.9	2965.2	2973.6	2984.2	2999.0	3013.8	3022.2	3022.2	3015.9
37.5°	2582.3	2557.0	2529.5	2508.3	2502.0	2497.7	2506.3	2512.5	2521.1	2525.2	2514.7
40°	2191.1	2134.0	2072.6	2017.6	1979.6	1962.7	1956.3	1960.5	1960.5	1975.3	1975.3
42.5°	1854.8	1766.0	1675.1	1592.5	1537.5	1495.3	1476.2	1476.2	1478.3	1489.0	1495.3
45°	1575.7	1463.5	1357.8	1266.9	1190.7	1135.7	1110.4	1104.0	1101.9	1106.1	1120.9
47.5°	1362.0	1245.7	1135.7	1023.7	943.3	888.3	865.0	856.5	848.1	856.5	858.7
50°	1195.0	1074.4	958.1	846.0	761.4	712.7	683.1	670.4	668.3	668.3	672.6
52.5°	1042.6	930.6	814.3	700.1	611.2	564.7	537.2	530.8	522.4	530.8	530.8
55°	898.8	786.8	672.6	564.7	490.6	442.1	416.6	408.2	403.9	410.3	410.3
57.5°	742.4	647.2	541.5	444.1	370.1	336.3	317.2	306.7	304.5	308.8	304.5
60°	609.1	528.8	437.8	349.0	291.9	255.9	241.1	236.9	232.6	236.9	236.9
62.5°	482.2	414.5	340.5	272.8	224.2	198.8	181.9	181.9	179.8	179.8	181.9
65°	357.4	304.5	251.7	194.6	156.5	137.5	124.7	124.7	122.7	124.7	122.7
67.5°	260.1	224.2	181.9	141.7	112.1	101.5	93.1	86.7	91.0	86.7	84.6
70°	190.4	160.7	131.1	107.9	86.7	76.2	69.8	67.6	63.5	63.5	63.5
72.5°	126.9	107.9	88.8	69.8	57.1	46.5	44.4	40.2	36.0	38.0	42.3
75°	84.6	71.9	63.5	50.8	38.0	38.0	25.4	25.4	21.2	25.4	19.1
77.5°	59.2	48.7	38.0	31.7	25.4	23.2	16.9	16.9	14.8	14.8	14.8
80°	42.3	36.0	27.5	23.2	16.9	16.9	14.8	12.7	10.5	10.5	12.7
82.5°	25.4	19.1	19.1	16.9	10.5	8.4	6.4	8.4	4.3	4.3	4.3
85°	14.8	12.7	10.5	6.4	4.3	4.3	2.1	0.0	2.1	2.1	0.0
87.5°	8.4	4.3	4.3	2.1	0.0	2.1	2.1	0.0	0.0	0.0	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4
2.5°	4356.8	4354.6	4358.9	4358.9	4371.6	4369.4	4375.8	4375.8	4371.6	4373.7	4382.2
5°	4371.6	4378.0	4390.6	4401.2	4420.2	4428.7	4439.3	4449.9	4452.0	4458.3	4464.7
7.5°	4371.6	4392.8	4407.6	4426.6	4452.0	4466.8	4490.0	4509.1	4517.5	4528.1	4540.8
10°	4363.1	4384.2	4411.8	4432.9	4464.7	4487.9	4511.2	4540.8	4553.5	4570.4	4587.3
12.5°	4346.2	4369.4	4399.0	4426.6	4462.5	4483.7	4513.3	4540.8	4559.8	4583.1	4602.1
15°	4320.9	4348.3	4375.8	4403.3	4441.4	4466.8	4494.3	4526.0	4545.0	4570.4	4587.3
17.5°	4280.7	4310.3	4335.7	4361.0	4397.0	4426.6	4452.0	4481.6	4500.6	4521.8	4545.0
20°	4232.0	4259.5	4287.0	4308.2	4344.1	4369.4	4397.0	4424.5	4439.3	4443.5	4479.5
22.5°	4170.7	4189.7	4210.8	4244.7	4265.9	4289.1	4314.5	4339.8	4354.6	4378.0	4390.6
25°	4069.1	4088.2	4111.4	4126.2	4151.6	4170.7	4196.0	4223.5	4232.0	4249.0	4261.6
27.5°	3927.5	3938.0	3948.6	3961.3	3976.1	3986.7	4001.5	4014.2	4022.6	4031.1	4039.5
30°	3703.2	3703.2	3703.2	3694.8	3701.1	3707.5	3709.6	3707.5	3707.5	3705.4	3705.4
32.5°	3407.2	3390.3	3371.2	3354.3	3348.0	3339.5	3335.3	3328.9	3318.4	3312.0	3314.1
35°	3007.4	2969.4	2946.1	2925.0	2908.1	2895.4	2889.0	2882.7	2880.6	2872.1	2863.6
37.5°	2508.3	2480.8	2463.9	2451.2	2436.4	2423.7	2425.8	2428.0	2434.3	2430.1	2432.2
40°	1979.6	1973.2	1979.6	1964.8	1960.5	1964.8	1975.3	1990.2	1998.6	2007.1	2021.9
42.5°	1505.8	1516.4	1531.3	1531.3	1537.5	1546.1	1558.7	1582.0	1594.6	1609.4	1626.4
45°	1133.6	1146.3	1165.4	1171.6	1175.9	1186.4	1201.3	1220.3	1228.8	1241.5	1256.3
47.5°	873.5	881.9	892.5	903.1	913.6	917.9	932.7	932.7	943.3	951.7	955.9
50°	681.0	689.5	697.9	704.3	708.5	714.9	719.1	725.4	727.5	731.8	733.9
52.5°	532.9	543.6	543.6	547.7	554.1	560.4	558.4	560.4	562.5	562.5	568.9
55°	416.6	416.6	423.0	423.0	427.3	425.1	427.3	427.3	427.3	427.3	429.3
57.5°	310.9	313.0	319.4	315.1	313.0	317.2	313.0	317.2	315.1	319.4	313.0
60°	239.0	239.0	241.1	241.1	243.2	243.2	243.2	241.1	241.1	239.0	239.0
62.5°	179.8	181.9	184.0	181.9	181.9	181.9	179.8	179.8	177.7	175.5	175.5
65°	120.6	118.5	122.7	118.5	120.6	120.6	118.5	120.6	114.2	116.3	114.2
67.5°	86.7	84.6	82.5	84.6	82.5	80.3	80.3	82.5	84.6	78.3	78.3
70°	57.1	59.2	57.1	59.2	61.4	61.4	59.2	57.1	59.2	55.0	57.1
72.5°	36.0	36.0	36.0	36.0	36.0	38.0	38.0	38.0	33.9	33.9	31.7
75°	16.9	23.2	19.1	16.9	23.2	23.2	21.2	21.2	19.1	19.1	19.1
77.5°	16.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	10.5	12.7	10.5
80°	8.4	8.4	8.4	6.4	8.4	8.4	10.5	8.4	8.4	6.4	10.5
82.5°	4.3	4.3	4.3	0.0	2.1	4.3	4.3	2.1	4.3	4.3	2.1
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: P248905

CATALOG NUMBER: LSR8B90D010 EC8B90850 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4
2.5°	4380.1	4378.0	4380.1	4382.2	4380.1	4378.0	4380.1	4382.2	4373.7	4371.6	4375.8
5°	4473.1	4473.1	4477.3	4479.5	4477.3	4473.1	4473.1	4464.7	4458.3	4452.0	4449.9
7.5°	4553.5	4557.7	4561.9	4564.0	4561.9	4557.7	4553.5	4540.8	4528.1	4517.5	4509.1
10°	4602.1	4608.5	4616.9	4621.1	4616.9	4608.5	4602.1	4587.3	4570.4	4553.5	4540.8
12.5°	4623.3	4629.6	4640.2	4638.1	4640.2	4629.6	4623.3	4602.1	4583.1	4559.8	4540.8
15°	4608.5	4616.9	4627.5	4631.7	4627.5	4616.9	4608.5	4587.3	4570.4	4545.0	4526.0
17.5°	4561.9	4574.6	4581.0	4587.3	4581.0	4574.6	4561.9	4545.0	4521.8	4500.6	4481.6
20°	4498.5	4507.0	4515.4	4517.5	4515.4	4507.0	4498.5	4479.5	4443.5	4439.3	4424.5
22.5°	4407.6	4413.9	4432.9	4426.6	4432.9	4413.9	4407.6	4390.6	4378.0	4354.6	4339.8
25°	4276.4	4282.7	4284.9	4287.0	4284.9	4282.7	4276.4	4261.6	4249.0	4232.0	4223.5
27.5°	4050.1	4050.1	4054.3	4056.5	4054.3	4050.1	4050.1	4039.5	4031.1	4022.6	4014.2
30°	3707.5	3707.5	3707.5	3718.1	3707.5	3707.5	3707.5	3705.4	3705.4	3707.5	3707.5
32.5°	3312.0	3307.7	3303.6	3307.7	3303.6	3307.7	3312.0	3314.1	3312.0	3318.4	3328.9
35°	2863.6	2861.5	2867.9	2859.4	2867.9	2861.5	2863.6	2863.6	2872.1	2880.6	2882.7
37.5°	2434.3	2430.1	2438.5	2430.1	2438.5	2430.1	2434.3	2432.2	2430.1	2434.3	2428.0
40°	2026.2	2030.3	2030.3	2047.3	2030.3	2030.3	2026.2	2021.9	2007.1	1998.6	1990.2
42.5°	1634.9	1647.6	1643.3	1656.0	1643.3	1647.6	1634.9	1626.4	1609.4	1594.6	1582.0
45°	1264.7	1273.2	1273.2	1277.4	1273.2	1273.2	1264.7	1256.3	1241.5	1228.8	1220.3
47.5°	970.7	970.7	970.7	972.9	970.7	970.7	970.7	955.9	951.7	943.3	932.7
50°	738.1	740.2	742.4	744.5	742.4	740.2	738.1	733.9	731.8	727.5	725.4
52.5°	566.8	568.9	564.7	568.9	564.7	568.9	566.8	568.9	562.5	562.5	560.4
55°	429.3	427.3	429.3	431.4	429.3	427.3	429.3	429.3	427.3	427.3	427.3
57.5°	315.1	310.9	310.9	310.9	310.9	310.9	315.1	313.0	319.4	315.1	317.2
60°	234.8	236.9	236.9	239.0	236.9	236.9	234.8	239.0	239.0	241.1	241.1
62.5°	173.4	179.8	175.5	179.8	175.5	179.8	173.4	175.5	175.5	177.7	179.8
65°	112.1	112.1	112.1	114.2	112.1	112.1	112.1	114.2	116.3	114.2	120.6
67.5°	76.2	78.3	82.5	80.3	82.5	78.3	76.2	78.3	78.3	84.6	82.5
70°	61.4	55.0	55.0	61.4	55.0	55.0	61.4	57.1	55.0	59.2	57.1
72.5°	36.0	31.7	36.0	36.0	36.0	31.7	36.0	31.7	33.9	33.9	38.0
75°	19.1	16.9	14.8	21.2	14.8	16.9	19.1	19.1	19.1	19.1	21.2
77.5°	12.7	10.5	14.8	14.8	14.8	10.5	12.7	10.5	12.7	10.5	12.7
80°	6.4	8.4	6.4	10.5	6.4	8.4	6.4	10.5	6.4	8.4	8.4
82.5°	2.1	4.3	4.3	4.3	4.3	4.3	2.1	2.1	4.3	4.3	2.1
85°	0.0	4.3	2.1	2.1	2.1	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	2.1	0.0	0.0	2.1	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: P248905

CATALOG NUMBER: LSR8B90D010 EC8B90850 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4
2.5°	4375.8	4369.4	4371.6	4358.9	4358.9	4354.6	4356.8	4346.2	4342.0	4337.8	4344.1
5°	4439.3	4428.7	4420.2	4401.2	4390.6	4378.0	4371.6	4354.6	4339.8	4327.1	4325.0
7.5°	4490.0	4466.8	4452.0	4426.6	4407.6	4392.8	4371.6	4348.3	4329.3	4312.3	4299.7
10°	4511.2	4487.9	4464.7	4432.9	4411.8	4384.2	4363.1	4333.5	4308.2	4284.9	4270.0
12.5°	4513.3	4483.7	4462.5	4426.6	4399.0	4369.4	4346.2	4312.3	4282.7	4259.5	4236.3
15°	4494.3	4466.8	4441.4	4403.3	4375.8	4348.3	4320.9	4284.9	4257.4	4229.9	4213.0
17.5°	4452.0	4426.6	4397.0	4361.0	4335.7	4310.3	4280.7	4251.1	4219.3	4189.7	4168.5
20°	4397.0	4369.4	4344.1	4308.2	4287.0	4259.5	4232.0	4200.3	4174.9	4145.3	4122.0
22.5°	4314.5	4289.1	4265.9	4244.7	4210.8	4189.7	4170.7	4134.8	4109.3	4081.8	4056.5
25°	4196.0	4170.7	4151.6	4126.2	4111.4	4088.2	4069.1	4037.4	4014.2	3988.8	3967.6
27.5°	4001.5	3986.7	3976.1	3961.3	3948.6	3938.0	3927.5	3902.1	3885.2	3861.9	3840.8
30°	3709.6	3707.5	3701.1	3694.8	3703.2	3703.2	3703.2	3699.1	3684.3	3667.3	3652.5
32.5°	3335.3	3339.5	3348.0	3354.3	3371.2	3390.3	3407.2	3415.6	3415.6	3405.1	3398.7
35°	2889.0	2895.4	2908.1	2925.0	2946.1	2969.4	3007.4	3015.9	3022.2	3022.2	3013.8
37.5°	2425.8	2423.7	2436.4	2451.2	2463.9	2480.8	2508.3	2514.7	2525.2	2521.1	2512.5
40°	1975.3	1964.8	1960.5	1964.8	1979.6	1973.2	1979.6	1975.3	1975.3	1960.5	1960.5
42.5°	1558.7	1546.1	1537.5	1531.3	1531.3	1516.4	1505.8	1495.3	1489.0	1478.3	1476.2
45°	1201.3	1186.4	1175.9	1171.6	1165.4	1146.3	1133.6	1120.9	1106.1	1101.9	1104.0
47.5°	932.7	917.9	913.6	903.1	892.5	881.9	873.5	858.7	856.5	848.1	856.5
50°	719.1	714.9	708.5	704.3	697.9	689.5	681.0	672.6	668.3	668.3	670.4
52.5°	558.4	560.4	554.1	547.7	543.6	543.6	532.9	530.8	530.8	522.4	530.8
55°	427.3	425.1	427.3	423.0	423.0	416.6	416.6	410.3	410.3	403.9	408.2
57.5°	313.0	317.2	313.0	315.1	319.4	313.0	310.9	304.5	308.8	304.5	306.7
60°	243.2	243.2	243.2	241.1	241.1	239.0	239.0	236.9	236.9	232.6	236.9
62.5°	179.8	181.9	181.9	181.9	184.0	181.9	179.8	181.9	179.8	179.8	181.9
65°	118.5	120.6	120.6	118.5	122.7	118.5	120.6	122.7	124.7	122.7	124.7
67.5°	80.3	80.3	82.5	84.6	82.5	84.6	86.7	84.6	86.7	91.0	86.7
70°	59.2	61.4	61.4	59.2	57.1	59.2	57.1	63.5	63.5	63.5	67.6
72.5°	38.0	38.0	36.0	36.0	36.0	36.0	36.0	42.3	38.0	36.0	40.2
75°	21.2	23.2	23.2	16.9	19.1	23.2	16.9	19.1	25.4	21.2	25.4
77.5°	12.7	12.7	12.7	12.7	12.7	12.7	16.9	14.8	14.8	14.8	16.9
80°	10.5	8.4	8.4	6.4	8.4	8.4	8.4	12.7	10.5	10.5	12.7
82.5°	4.3	4.3	2.1	0.0	4.3	4.3	4.3	4.3	4.3	4.3	8.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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: P248905

CATALOG NUMBER: LSR8B90D010 EC8B90850 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4
2.5°	4327.1	4327.1	4325.0	4320.9	4312.3	4312.3	4310.3	4303.9	4299.7	4297.5	4297.5
5°	4306.0	4297.5	4289.1	4265.9	4265.9	4261.6	4249.0	4240.4	4236.3	4225.6	4221.5
7.5°	4287.0	4261.6	4246.8	4232.0	4213.0	4204.5	4189.7	4183.3	4168.5	4158.0	4151.6
10°	4240.4	4223.5	4204.5	4181.2	4166.4	4149.6	4132.6	4120.0	4100.9	4090.3	4081.8
12.5°	4208.7	4183.3	4166.4	4141.0	4115.7	4100.9	4077.6	4062.8	4043.8	4022.6	4009.9
15°	4179.1	4151.6	4128.4	4100.9	4073.4	4056.5	4029.0	4012.1	3984.6	3963.4	3948.6
17.5°	4134.8	4111.4	4086.1	4052.2	4026.9	4005.7	3976.1	3955.0	3929.6	3902.1	3887.3
20°	4088.2	4060.7	4035.3	4001.5	3976.1	3950.7	3921.1	3897.9	3868.2	3842.9	3826.0
22.5°	4026.9	3995.1	3974.0	3940.1	3910.5	3883.1	3855.6	3828.1	3800.6	3779.4	3760.3
25°	3938.0	3904.1	3880.9	3853.4	3826.0	3804.8	3771.0	3754.1	3726.6	3707.5	3688.4
27.5°	3811.1	3785.8	3764.6	3737.1	3713.9	3697.0	3671.5	3654.7	3631.3	3614.4	3599.6
30°	3625.1	3603.9	3584.8	3557.3	3540.4	3525.6	3502.3	3487.5	3470.6	3451.6	3447.4
32.5°	3375.5	3358.5	3339.5	3320.5	3307.7	3299.3	3280.2	3271.8	3254.9	3244.3	3233.8
35°	2999.0	2984.2	2973.6	2965.2	2960.9	2963.0	2958.8	2967.3	2971.5	2969.4	2971.5
37.5°	2506.3	2497.7	2502.0	2508.3	2529.5	2557.0	2582.3	2620.4	2645.8	2671.2	2694.5
40°	1956.3	1962.7	1979.6	2017.6	2072.6	2134.0	2191.1	2263.0	2334.9	2385.7	2432.2
42.5°	1476.2	1495.3	1537.5	1592.5	1675.1	1766.0	1854.8	1960.5	2047.3	2131.8	2191.1
45°	1110.4	1135.7	1190.7	1266.9	1357.8	1463.5	1575.7	1694.0	1797.7	1884.4	1950.0
47.5°	865.0	888.3	943.3	1023.7	1135.7	1245.7	1362.0	1484.7	1592.5	1677.2	1734.3
50°	683.1	712.7	761.4	846.0	958.1	1074.4	1195.0	1315.5	1417.0	1489.0	1539.7
52.5°	537.2	564.7	611.2	700.1	814.3	930.6	1042.6	1161.1	1249.9	1319.7	1353.6
55°	416.6	442.1	490.6	564.7	672.6	786.8	898.8	1000.4	1082.9	1133.6	1165.4
57.5°	317.2	336.3	370.1	444.1	541.5	647.2	742.4	843.9	907.4	943.3	964.4
60°	241.1	255.9	291.9	349.0	437.8	528.8	609.1	685.3	736.0	765.6	786.8
62.5°	181.9	198.8	224.2	272.8	340.5	414.5	482.2	539.3	581.6	600.7	615.5
65°	124.7	137.5	156.5	194.6	251.7	304.5	357.4	399.7	427.3	448.4	456.9
67.5°	93.1	101.5	112.1	141.7	181.9	224.2	260.1	289.7	319.4	327.8	342.6
70°	69.8	76.2	86.7	107.9	131.1	160.7	190.4	207.3	228.4	243.2	247.5
72.5°	44.4	46.5	57.1	69.8	88.8	107.9	126.9	141.7	154.4	162.9	167.1
75°	25.4	38.0	38.0	50.8	63.5	71.9	84.6	95.1	101.5	107.9	107.9
77.5°	16.9	23.2	25.4	31.7	38.0	48.7	59.2	65.6	71.9	74.0	74.0
80°	14.8	16.9	16.9	23.2	27.5	36.0	42.3	44.4	48.7	50.8	55.0
82.5°	6.4	8.4	10.5	16.9	19.1	19.1	25.4	27.5	31.7	33.9	33.9
85°	2.1	4.3	4.3	6.4	10.5	12.7	14.8	16.9	19.1	19.1	21.2
87.5°	2.1	2.1	0.0	2.1	4.3	4.3	8.4	8.4	8.4	12.7	12.7
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: P248905

CATALOG NUMBER: LSR8B90D010 EC8B90850 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4	4331.4
2.5°	4293.4	4295.5	4287.0	4284.9	4280.7	4282.7	4287.0
5°	4215.1	4217.2	4208.7	4200.3	4200.3	4198.1	4200.3
7.5°	4141.0	4143.2	4130.5	4126.2	4117.8	4120.0	4120.0
10°	4067.0	4067.0	4048.0	4045.9	4039.5	4037.4	4037.4
12.5°	3995.1	3988.8	3974.0	3965.5	3969.8	3957.1	3957.1
15°	3931.7	3921.1	3902.1	3895.7	3885.2	3880.9	3880.9
17.5°	3866.1	3857.7	3840.8	3828.1	3815.4	3813.3	3815.4
20°	3802.6	3794.2	3773.0	3764.6	3754.1	3754.1	3749.8
22.5°	3739.2	3730.7	3711.8	3705.4	3690.6	3690.6	3692.7
25°	3673.6	3667.3	3646.1	3641.9	3639.9	3631.3	3635.6
27.5°	3584.8	3580.6	3563.7	3557.3	3548.9	3546.8	3551.0
30°	3422.0	3415.6	3403.0	3396.6	3381.8	3383.9	3388.1
32.5°	3219.0	3210.5	3193.5	3187.2	3174.6	3170.3	3172.4
35°	2965.2	2958.8	2944.0	2944.0	2931.3	2927.1	2931.3
37.5°	2707.2	2713.4	2707.2	2713.4	2707.2	2705.0	2707.2
40°	2463.9	2487.2	2491.4	2514.7	2506.3	2518.9	2516.8
42.5°	2231.3	2269.3	2284.2	2303.2	2299.0	2307.4	2313.8
45°	1996.5	2028.2	2043.0	2055.8	2057.8	2062.1	2064.2
47.5°	1774.4	1799.8	1801.9	1816.7	1814.6	1814.6	1821.0
50°	1567.2	1584.1	1588.3	1598.9	1590.5	1586.2	1588.3
52.5°	1374.7	1391.6	1387.4	1391.6	1381.1	1376.8	1378.9
55°	1178.0	1186.4	1186.4	1186.4	1173.8	1173.8	1173.8
57.5°	977.1	979.3	975.0	977.1	975.0	962.3	960.2
60°	793.1	793.1	791.0	793.1	786.8	780.4	780.4
62.5°	619.6	623.9	632.4	623.9	619.6	623.9	617.6
65°	463.2	471.7	469.5	473.7	471.7	471.7	467.4
67.5°	349.0	351.1	353.2	355.3	355.3	355.3	355.3
70°	255.9	262.3	260.1	260.1	260.1	260.1	272.8
72.5°	171.3	179.8	177.7	181.9	181.9	186.1	181.9
75°	116.3	124.7	120.6	126.9	124.7	120.6	131.1
77.5°	78.3	82.5	84.6	86.7	84.6	82.5	84.6
80°	55.0	59.2	57.1	59.2	59.2	59.2	61.4
82.5°	33.9	40.2	38.0	40.2	38.0	40.2	40.2
85°	23.2	25.4	21.2	25.4	23.2	23.2	27.5
87.5°	14.8	12.7	12.7	14.8	12.7	14.8	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)