

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: P248626

Luminaire Tested: **LD8B90D010 ER8B90950 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248626  
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: LD8B90D010 ER8B90950 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8694.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 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

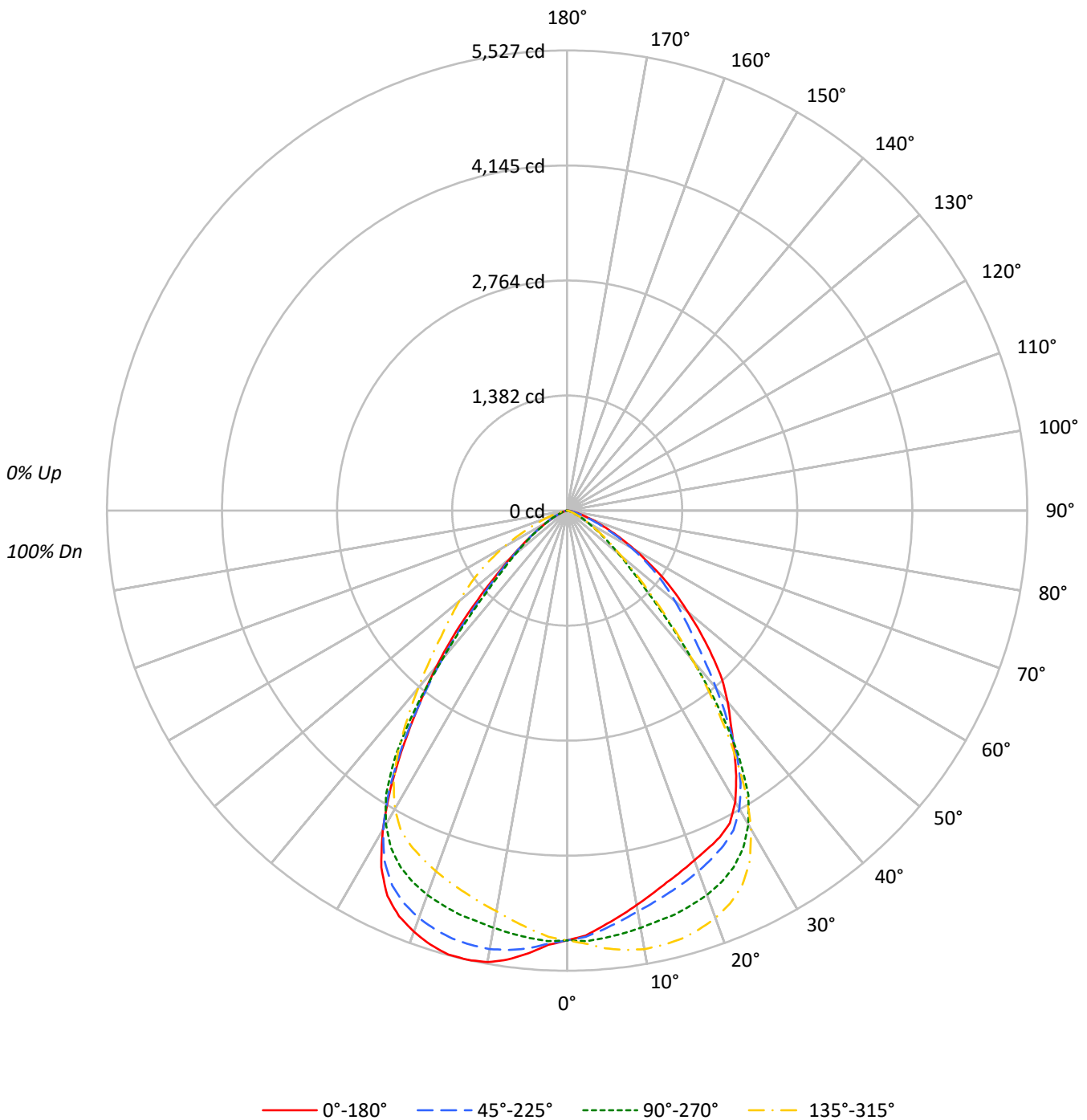
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	159159	159159	159159	159159
5°	154928	159531	165227	159531
10°	150642	159322	172423	159322
15°	147633	160269	176196	160269
20°	146629	161186	176648	161186
25°	147399	160863	173809	160863
30°	143755	154971	157759	154971
35°	131491	135188	128265	135188
40°	120722	94041	98204	94041
45°	107265	57368	66382	57368
50°	90793	38321	42557	38321
55°	75196	26150	27639	26150
60°	57356	17410	17558	17410
65°	40634	10843	9931	10843
70°	29311	7267	6591	7267
75°	18610	3610	3002	3610
80°	12981	2681	2237	2681
85°	11605	0	885	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.3	5.7
10°-20°	1422.6	16.4
20°-30°	2154.1	24.8
30°-40°	2159.0	24.8
40°-50°	1355.7	15.6
50°-60°	722.5	8.3
60°-70°	297.1	3.4
70°-80°	78.5	0.9
80°-90°	13.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4068.0	46.8
0°-40°	6227.0	71.6
0°-60°	8305.1	95.5
0°-90°	8694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8694.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5161	5161	5161	5161	5161	
5°	5005	5154	5338	5154	5005	472
15°	4624	5020	5519	5020	4624	1308
25°	4332	4728	5108	4728	4332	1987
35°	3493	3591	3407	3591	3493	2188
45°	2460	1316	1522	1316	2460	1892
55°	1399	486	514	486	1399	1247
65°	557	149	136	149	557	578
75°	156	30	25	30	156	177
85°	33	0	2	0	33	36
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°	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4
2.5°	5108.4	5103.4	5100.9	5106.0	5108.4	5118.5	5116.0	5121.0	5121.0	5123.6	5128.6
5°	5005.1	5002.5	5005.1	5005.1	5015.2	5025.3	5022.8	5030.3	5035.3	5048.0	5053.0
7.5°	4909.4	4909.4	4906.8	4916.9	4921.9	4937.1	4934.5	4947.1	4954.7	4967.3	4984.9
10°	4811.0	4811.0	4813.5	4821.1	4823.7	4846.3	4846.3	4863.9	4874.0	4886.7	4909.4
12.5°	4715.3	4715.3	4730.4	4725.4	4735.4	4753.1	4760.6	4778.3	4793.4	4818.6	4841.3
15°	4624.5	4624.5	4629.6	4642.2	4649.7	4672.5	4685.0	4705.2	4722.9	4748.1	4780.9
17.5°	4546.4	4543.9	4546.4	4561.6	4576.7	4596.8	4606.9	4632.1	4649.7	4682.5	4712.8
20°	4468.3	4473.4	4473.4	4485.9	4496.0	4521.2	4531.3	4559.1	4579.2	4609.4	4644.8
22.5°	4400.3	4397.8	4397.8	4415.4	4423.0	4445.6	4455.7	4480.9	4503.6	4528.8	4561.6
25°	4332.2	4327.1	4337.3	4339.8	4344.8	4370.0	4377.5	4395.2	4417.9	4440.6	4473.4
27.5°	4231.4	4226.4	4228.9	4239.0	4246.5	4266.7	4271.7	4289.4	4307.0	4327.1	4354.9
30°	4037.3	4032.3	4029.8	4047.5	4055.0	4070.1	4077.7	4107.9	4112.9	4135.6	4155.8
32.5°	3780.2	3777.8	3782.8	3797.9	3805.5	3825.7	3835.7	3853.4	3865.9	3878.6	3898.7
35°	3493.0	3487.9	3493.0	3508.2	3508.2	3525.8	3533.4	3540.8	3538.3	3540.8	3535.9
37.5°	3225.9	3223.3	3225.9	3233.4	3225.9	3233.4	3225.9	3210.8	3183.1	3152.8	3122.5
40°	2999.0	3001.5	2986.5	2996.5	2968.7	2963.8	2936.1	2898.2	2842.8	2782.3	2696.7
42.5°	2757.1	2749.6	2739.5	2744.5	2721.9	2704.1	2658.8	2611.0	2540.3	2439.6	2336.2
45°	2459.7	2457.2	2452.2	2449.7	2434.5	2416.9	2379.0	2323.6	2245.5	2142.2	2018.6
47.5°	2169.9	2162.3	2162.3	2164.8	2147.2	2144.7	2114.4	2066.6	1998.5	1897.7	1769.2
50°	1892.6	1890.1	1895.2	1905.3	1892.6	1887.6	1867.5	1834.7	1774.3	1688.6	1567.5
52.5°	1643.1	1640.6	1645.7	1658.3	1653.2	1658.3	1638.2	1612.9	1572.6	1489.4	1383.6
55°	1398.7	1398.7	1398.7	1413.8	1413.8	1413.8	1403.7	1388.7	1350.8	1290.3	1192.1
57.5°	1144.2	1146.7	1161.8	1164.3	1161.8	1166.9	1164.3	1149.2	1124.1	1081.2	1005.6
60°	930.0	930.0	937.5	945.1	942.5	945.1	945.1	937.5	912.3	877.1	816.6
62.5°	735.9	743.5	738.4	743.5	753.5	743.5	738.4	733.4	715.8	693.0	642.6
65°	556.9	562.0	562.0	564.5	559.4	562.0	552.0	544.4	534.3	509.1	476.3
67.5°	423.4	423.4	423.4	423.4	420.8	418.4	415.9	408.3	390.7	380.6	345.2
70°	325.1	310.0	310.0	310.0	310.0	312.5	305.0	294.9	289.8	272.2	247.0
72.5°	216.7	221.8	216.7	216.7	211.7	214.2	204.1	199.1	194.1	184.0	168.9
75°	156.2	143.7	148.6	151.2	143.7	148.6	138.6	128.5	128.5	121.0	113.4
77.5°	100.8	98.3	100.8	103.3	100.8	98.3	93.3	88.2	88.2	85.7	78.1
80°	73.1	70.5	70.5	70.5	68.0	70.5	65.6	65.6	60.5	58.0	52.9
82.5°	47.9	47.9	45.3	47.9	45.3	47.9	40.4	40.4	40.4	37.8	32.8
85°	32.8	27.7	27.7	30.3	25.2	30.3	27.7	25.2	22.7	22.7	20.1
87.5°	15.1	17.6	15.1	17.6	15.1	15.1	17.6	15.1	15.1	10.1	10.1
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°	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4
2.5°	5136.1	5138.6	5138.6	5148.8	5153.8	5156.3	5156.3	5176.5	5168.9	5174.0	5179.0
5°	5063.1	5078.2	5083.2	5083.2	5110.9	5121.0	5131.1	5153.8	5156.3	5171.4	5189.0
7.5°	4992.5	5010.1	5020.3	5042.9	5060.5	5078.2	5108.4	5123.6	5138.6	5158.9	5181.5
10°	4924.4	4944.7	4964.8	4982.4	5010.1	5032.8	5053.0	5088.2	5106.0	5133.7	5163.8
12.5°	4859.0	4886.7	4904.3	4934.5	4964.8	4984.9	5015.2	5048.0	5075.7	5103.4	5138.6
15°	4801.0	4833.8	4853.9	4886.7	4919.4	4947.1	4979.9	5020.3	5040.4	5073.2	5106.0
17.5°	4737.9	4773.3	4798.5	4828.7	4869.0	4899.2	4927.0	4967.3	4992.5	5027.7	5065.6
20°	4672.5	4707.7	4737.9	4768.2	4808.6	4838.7	4871.5	4911.9	4939.6	4974.8	5005.1
22.5°	4594.3	4627.1	4659.8	4695.1	4735.4	4760.6	4798.5	4833.8	4863.9	4896.7	4927.0
25°	4493.5	4533.9	4559.1	4591.8	4624.5	4652.2	4692.6	4727.9	4753.1	4783.3	4811.0
27.5°	4375.1	4405.3	4425.5	4453.2	4485.9	4511.2	4541.3	4576.7	4601.9	4629.6	4649.7
30°	4173.4	4201.2	4218.8	4239.0	4271.7	4294.5	4319.7	4352.3	4370.0	4390.2	4407.8
32.5°	3908.8	3931.5	3941.6	3956.7	3979.4	4002.0	4022.3	4050.0	4057.5	4070.1	4070.1
35°	3525.8	3530.8	3528.3	3533.4	3543.4	3556.0	3573.6	3591.2	3601.3	3601.3	3593.8
37.5°	3077.1	3047.0	3014.2	2989.0	2981.4	2976.3	2986.5	2993.9	3004.1	3009.1	2996.5
40°	2611.0	2542.9	2469.8	2404.2	2358.9	2338.8	2331.2	2336.2	2336.2	2353.8	2353.8
42.5°	2210.2	2104.3	1996.0	1897.7	1832.1	1781.8	1759.1	1759.1	1761.6	1774.3	1781.8
45°	1877.6	1744.0	1617.9	1509.6	1418.9	1353.3	1323.1	1315.5	1313.1	1318.0	1335.7
47.5°	1623.0	1484.4	1353.3	1219.8	1124.1	1058.5	1030.8	1020.6	1010.6	1020.6	1023.2
50°	1423.9	1280.3	1141.7	1008.1	907.3	849.3	814.0	798.8	796.4	796.4	801.4
52.5°	1242.4	1108.9	970.3	834.2	728.3	672.9	640.1	632.6	622.5	632.6	632.6
55°	1071.0	937.5	801.4	672.9	584.6	526.8	496.5	486.4	481.3	488.9	488.9
57.5°	884.6	771.2	645.2	529.2	441.1	400.7	378.0	365.5	362.9	367.9	362.9
60°	725.8	630.1	521.7	415.9	347.8	305.0	287.3	282.3	277.2	282.3	282.3
62.5°	574.6	494.0	405.7	325.1	267.1	236.9	216.7	216.7	214.2	214.2	216.7
65°	425.9	362.9	299.9	231.8	186.5	163.8	148.6	148.6	146.2	148.6	146.2
67.5°	310.0	267.1	216.7	168.9	133.6	121.0	110.9	103.3	108.4	103.3	100.8
70°	226.9	191.5	156.2	128.5	103.3	90.8	83.2	80.6	75.6	75.6	75.6
72.5°	151.2	128.5	105.8	83.2	68.0	55.4	52.9	47.9	42.8	45.3	50.4
75°	100.8	85.7	75.6	60.5	45.3	45.3	30.3	30.3	25.2	30.3	22.7
77.5°	70.5	58.0	45.3	37.8	30.3	27.7	20.1	20.1	17.6	17.6	17.6
80°	50.4	42.8	32.8	27.7	20.1	20.1	17.6	15.1	12.6	12.6	15.1
82.5°	30.3	22.7	22.7	20.1	12.6	10.1	7.6	10.1	5.1	5.1	5.1
85°	17.6	15.1	12.6	7.6	5.1	5.1	2.5	0.0	2.5	2.5	0.0
87.5°	10.1	5.1	5.1	2.5	0.0	2.5	2.5	0.0	0.0	0.0	5.1
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°	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4
2.5°	5191.6	5189.0	5194.1	5194.1	5209.3	5206.7	5214.3	5214.3	5209.3	5211.8	5221.8
5°	5209.3	5216.8	5231.9	5244.5	5267.2	5277.3	5289.9	5302.5	5305.0	5312.6	5320.2
7.5°	5209.3	5234.5	5252.1	5274.7	5305.0	5322.7	5350.4	5373.1	5383.1	5395.7	5410.8
10°	5199.1	5224.3	5257.1	5282.3	5320.2	5347.9	5375.6	5410.8	5426.0	5446.1	5466.3
12.5°	5179.0	5206.7	5242.0	5274.7	5317.6	5342.8	5378.1	5410.8	5433.5	5461.2	5484.0
15°	5148.8	5181.5	5214.3	5247.0	5292.4	5322.7	5355.4	5393.2	5415.9	5446.1	5466.3
17.5°	5100.9	5136.1	5166.4	5196.6	5239.5	5274.7	5305.0	5340.3	5363.0	5388.2	5415.9
20°	5042.9	5075.7	5108.4	5133.7	5176.5	5206.7	5239.5	5272.2	5289.9	5295.0	5337.8
22.5°	4969.9	4992.5	5017.7	5058.0	5083.2	5110.9	5141.2	5171.4	5189.0	5216.8	5231.9
25°	4848.8	4871.5	4899.2	4916.9	4947.1	4969.9	5000.0	5032.8	5042.9	5063.1	5078.2
27.5°	4680.0	4692.6	4705.2	4720.3	4737.9	4750.6	4768.2	4783.3	4793.4	4803.5	4813.5
30°	4412.8	4412.8	4412.8	4402.8	4410.3	4417.9	4420.4	4417.9	4417.9	4415.4	4415.4
32.5°	4060.0	4039.9	4017.2	3997.1	3989.5	3979.4	3974.3	3966.8	3954.2	3946.6	3949.1
35°	3583.7	3538.3	3510.6	3485.4	3465.3	3450.2	3442.6	3435.0	3432.5	3422.5	3412.3
37.5°	2989.0	2956.2	2936.1	2920.9	2903.3	2888.1	2890.6	2893.2	2900.7	2895.7	2898.2
40°	2358.9	2351.3	2358.9	2341.3	2336.2	2341.3	2353.8	2371.5	2381.6	2391.7	2409.3
42.5°	1794.4	1806.9	1824.7	1824.7	1832.1	1842.3	1857.3	1885.1	1900.2	1917.8	1938.0
45°	1350.8	1366.0	1388.7	1396.1	1401.2	1413.8	1431.5	1454.1	1464.2	1479.3	1497.0
47.5°	1040.9	1050.9	1063.5	1076.1	1088.7	1093.8	1111.4	1111.4	1124.1	1134.1	1139.1
50°	811.5	821.6	831.6	839.2	844.3	851.9	856.8	864.4	866.9	872.0	874.5
52.5°	635.1	647.7	647.7	652.7	660.3	667.8	665.3	667.8	670.3	670.3	677.9
55°	496.5	496.5	504.0	504.0	509.1	506.5	509.1	509.1	509.1	509.1	511.6
57.5°	370.4	373.0	380.6	375.5	373.0	378.0	373.0	378.0	375.5	380.6	373.0
60°	284.7	284.7	287.3	287.3	289.8	289.8	289.8	287.3	287.3	284.7	284.7
62.5°	214.2	216.7	219.3	216.7	216.7	216.7	214.2	214.2	211.7	209.1	209.1
65°	143.7	141.2	146.2	141.2	143.7	143.7	141.2	143.7	136.1	138.6	136.1
67.5°	103.3	100.8	98.3	100.8	98.3	95.7	95.7	98.3	100.8	93.3	93.3
70°	68.0	70.5	68.0	70.5	73.1	73.1	70.5	68.0	70.5	65.6	68.0
72.5°	42.8	42.8	42.8	42.8	42.8	45.3	45.3	45.3	40.4	40.4	37.8
75°	20.1	27.7	22.7	20.1	27.7	27.7	25.2	25.2	22.7	22.7	22.7
77.5°	20.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	12.6	15.1	12.6
80°	10.1	10.1	10.1	7.6	10.1	10.1	12.6	10.1	10.1	7.6	12.6
82.5°	5.1	5.1	5.1	0.0	2.5	5.1	5.1	2.5	5.1	5.1	2.5
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: P248626

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4
2.5°	5219.3	5216.8	5219.3	5221.8	5219.3	5216.8	5219.3	5221.8	5211.8	5209.3	5214.3
5°	5330.2	5330.2	5335.2	5337.8	5335.2	5330.2	5330.2	5320.2	5312.6	5305.0	5302.5
7.5°	5426.0	5431.1	5436.0	5438.5	5436.0	5431.1	5426.0	5410.8	5395.7	5383.1	5373.1
10°	5484.0	5491.5	5501.6	5506.6	5501.6	5491.5	5484.0	5466.3	5446.1	5426.0	5410.8
12.5°	5509.2	5516.7	5529.3	5526.8	5529.3	5516.7	5509.2	5484.0	5461.2	5433.5	5410.8
15°	5491.5	5501.6	5514.1	5519.2	5514.1	5501.6	5491.5	5466.3	5446.1	5415.9	5393.2
17.5°	5436.0	5451.2	5458.8	5466.3	5458.8	5451.2	5436.0	5415.9	5388.2	5363.0	5340.3
20°	5360.4	5370.6	5380.6	5383.1	5380.6	5370.6	5360.4	5337.8	5295.0	5289.9	5272.2
22.5°	5252.1	5259.7	5282.3	5274.7	5282.3	5259.7	5252.1	5231.9	5216.8	5189.0	5171.4
25°	5095.8	5103.4	5106.0	5108.4	5106.0	5103.4	5095.8	5078.2	5063.1	5042.9	5032.8
27.5°	4826.2	4826.2	4831.2	4833.8	4831.2	4826.2	4826.2	4813.5	4803.5	4793.4	4783.3
30°	4417.9	4417.9	4417.9	4430.6	4417.9	4417.9	4417.9	4415.4	4415.4	4417.9	4417.9
32.5°	3946.6	3941.6	3936.6	3941.6	3936.6	3941.6	3946.6	3949.1	3946.6	3954.2	3966.8
35°	3412.3	3409.8	3417.4	3407.3	3417.4	3409.8	3412.3	3412.3	3422.5	3432.5	3435.0
37.5°	2900.7	2895.7	2905.8	2895.7	2905.8	2895.7	2900.7	2898.2	2895.7	2900.7	2893.2
40°	2414.4	2419.4	2419.4	2439.6	2419.4	2419.4	2414.4	2409.3	2391.7	2381.6	2371.5
42.5°	1948.1	1963.3	1958.2	1973.3	1958.2	1963.3	1948.1	1938.0	1917.8	1900.2	1885.1
45°	1507.0	1517.2	1517.2	1522.2	1517.2	1517.2	1507.0	1497.0	1479.3	1464.2	1454.1
47.5°	1156.7	1156.7	1156.7	1159.3	1156.7	1156.7	1156.7	1139.1	1134.1	1124.1	1111.4
50°	879.6	882.0	884.6	887.1	884.6	882.0	879.6	874.5	872.0	866.9	864.4
52.5°	675.4	677.9	672.9	677.9	672.9	677.9	675.4	677.9	670.3	670.3	667.8
55°	511.6	509.1	511.6	514.1	511.6	509.1	511.6	511.6	509.1	509.1	509.1
57.5°	375.5	370.4	370.4	370.4	370.4	370.4	375.5	373.0	380.6	375.5	378.0
60°	279.8	282.3	282.3	284.7	282.3	282.3	279.8	284.7	284.7	287.3	287.3
62.5°	206.6	214.2	209.1	214.2	209.1	214.2	206.6	209.1	209.1	211.7	214.2
65°	133.6	133.6	133.6	136.1	133.6	133.6	133.6	136.1	138.6	136.1	143.7
67.5°	90.8	93.3	98.3	95.7	98.3	93.3	90.8	93.3	93.3	100.8	98.3
70°	73.1	65.6	65.6	73.1	65.6	65.6	73.1	68.0	65.6	70.5	68.0
72.5°	42.8	37.8	42.8	42.8	42.8	37.8	42.8	37.8	40.4	40.4	45.3
75°	22.7	20.1	17.6	25.2	17.6	20.1	22.7	22.7	22.7	22.7	25.2
77.5°	15.1	12.6	17.6	17.6	17.6	12.6	15.1	12.6	15.1	12.6	15.1
80°	7.6	10.1	7.6	12.6	7.6	10.1	7.6	12.6	7.6	10.1	10.1
82.5°	2.5	5.1	5.1	5.1	5.1	5.1	2.5	2.5	5.1	5.1	2.5
85°	0.0	5.1	2.5	2.5	2.5	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.0	0.0	2.5	0.0	0.0	2.5	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: P248626

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4
2.5°	5214.3	5206.7	5209.3	5194.1	5194.1	5189.0	5191.6	5179.0	5174.0	5168.9	5176.5
5°	5289.9	5277.3	5267.2	5244.5	5231.9	5216.8	5209.3	5189.0	5171.4	5156.3	5153.8
7.5°	5350.4	5322.7	5305.0	5274.7	5252.1	5234.5	5209.3	5181.5	5158.9	5138.6	5123.6
10°	5375.6	5347.9	5320.2	5282.3	5257.1	5224.3	5199.1	5163.8	5133.7	5106.0	5088.2
12.5°	5378.1	5342.8	5317.6	5274.7	5242.0	5206.7	5179.0	5138.6	5103.4	5075.7	5048.0
15°	5355.4	5322.7	5292.4	5247.0	5214.3	5181.5	5148.8	5106.0	5073.2	5040.4	5020.3
17.5°	5305.0	5274.7	5239.5	5196.6	5166.4	5136.1	5100.9	5065.6	5027.7	4992.5	4967.3
20°	5239.5	5206.7	5176.5	5133.7	5108.4	5075.7	5042.9	5005.1	4974.8	4939.6	4911.9
22.5°	5141.2	5110.9	5083.2	5058.0	5017.7	4992.5	4969.9	4927.0	4896.7	4863.9	4833.8
25°	5000.0	4969.9	4947.1	4916.9	4899.2	4871.5	4848.8	4811.0	4783.3	4753.1	4727.9
27.5°	4768.2	4750.6	4737.9	4720.3	4705.2	4692.6	4680.0	4649.7	4629.6	4601.9	4576.7
30°	4420.4	4417.9	4410.3	4402.8	4412.8	4412.8	4412.8	4407.8	4390.2	4370.0	4352.3
32.5°	3974.3	3979.4	3989.5	3997.1	4017.2	4039.9	4060.0	4070.1	4070.1	4057.5	4050.0
35°	3442.6	3450.2	3465.3	3485.4	3510.6	3538.3	3583.7	3593.8	3601.3	3601.3	3591.2
37.5°	2890.6	2888.1	2903.3	2920.9	2936.1	2956.2	2989.0	2996.5	3009.1	3004.1	2993.9
40°	2353.8	2341.3	2336.2	2341.3	2358.9	2351.3	2358.9	2353.8	2353.8	2336.2	2336.2
42.5°	1857.3	1842.3	1832.1	1824.7	1824.7	1806.9	1794.4	1781.8	1774.3	1761.6	1759.1
45°	1431.5	1413.8	1401.2	1396.1	1388.7	1366.0	1350.8	1335.7	1318.0	1313.1	1315.5
47.5°	1111.4	1093.8	1088.7	1076.1	1063.5	1050.9	1040.9	1023.2	1020.6	1010.6	1020.6
50°	856.8	851.9	844.3	839.2	831.6	821.6	811.5	801.4	796.4	796.4	798.8
52.5°	665.3	667.8	660.3	652.7	647.7	647.7	635.1	632.6	632.6	622.5	632.6
55°	509.1	506.5	509.1	504.0	504.0	496.5	496.5	488.9	488.9	481.3	486.4
57.5°	373.0	378.0	373.0	375.5	380.6	373.0	370.4	362.9	367.9	362.9	365.5
60°	289.8	289.8	289.8	287.3	287.3	284.7	284.7	282.3	282.3	277.2	282.3
62.5°	214.2	216.7	216.7	216.7	219.3	216.7	214.2	216.7	214.2	214.2	216.7
65°	141.2	143.7	143.7	141.2	146.2	141.2	143.7	146.2	148.6	146.2	148.6
67.5°	95.7	95.7	98.3	100.8	98.3	100.8	103.3	100.8	103.3	108.4	103.3
70°	70.5	73.1	73.1	70.5	68.0	70.5	68.0	75.6	75.6	75.6	80.6
72.5°	45.3	45.3	42.8	42.8	42.8	42.8	42.8	50.4	45.3	42.8	47.9
75°	25.2	27.7	27.7	20.1	22.7	27.7	20.1	22.7	30.3	25.2	30.3
77.5°	15.1	15.1	15.1	15.1	15.1	15.1	20.1	17.6	17.6	17.6	20.1
80°	12.6	10.1	10.1	7.6	10.1	10.1	10.1	15.1	12.6	12.6	15.1
82.5°	5.1	5.1	2.5	0.0	5.1	5.1	5.1	5.1	5.1	5.1	10.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	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: P248626

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4
2.5°	5156.3	5156.3	5153.8	5148.8	5138.6	5138.6	5136.1	5128.6	5123.6	5121.0	5121.0
5°	5131.1	5121.0	5110.9	5083.2	5083.2	5078.2	5063.1	5053.0	5048.0	5035.3	5030.3
7.5°	5108.4	5078.2	5060.5	5042.9	5020.3	5010.1	4992.5	4984.9	4967.3	4954.7	4947.1
10°	5053.0	5032.8	5010.1	4982.4	4964.8	4944.7	4924.4	4909.4	4886.7	4874.0	4863.9
12.5°	5015.2	4984.9	4964.8	4934.5	4904.3	4886.7	4859.0	4841.3	4818.6	4793.4	4778.3
15°	4979.9	4947.1	4919.4	4886.7	4853.9	4833.8	4801.0	4780.9	4748.1	4722.9	4705.2
17.5°	4927.0	4899.2	4869.0	4828.7	4798.5	4773.3	4737.9	4712.8	4682.5	4649.7	4632.1
20°	4871.5	4838.7	4808.6	4768.2	4737.9	4707.7	4672.5	4644.8	4609.4	4579.2	4559.1
22.5°	4798.5	4760.6	4735.4	4695.1	4659.8	4627.1	4594.3	4561.6	4528.8	4503.6	4480.9
25°	4692.6	4652.2	4624.5	4591.8	4559.1	4533.9	4493.5	4473.4	4440.6	4417.9	4395.2
27.5°	4541.3	4511.2	4485.9	4453.2	4425.5	4405.3	4375.1	4354.9	4327.1	4307.0	4289.4
30°	4319.7	4294.5	4271.7	4239.0	4218.8	4201.2	4173.4	4155.8	4135.6	4112.9	4107.9
32.5°	4022.3	4002.0	3979.4	3956.7	3941.6	3931.5	3908.8	3898.7	3878.6	3865.9	3853.4
35°	3573.6	3556.0	3543.4	3533.4	3528.3	3530.8	3525.8	3535.9	3540.8	3538.3	3540.8
37.5°	2986.5	2976.3	2981.4	2989.0	3014.2	3047.0	3077.1	3122.5	3152.8	3183.1	3210.8
40°	2331.2	2338.8	2358.9	2404.2	2469.8	2542.9	2611.0	2696.7	2782.3	2842.8	2898.2
42.5°	1759.1	1781.8	1832.1	1897.7	1996.0	2104.3	2210.2	2336.2	2439.6	2540.3	2611.0
45°	1323.1	1353.3	1418.9	1509.6	1617.9	1744.0	1877.6	2018.6	2142.2	2245.5	2323.6
47.5°	1030.8	1058.5	1124.1	1219.8	1353.3	1484.4	1623.0	1769.2	1897.7	1998.5	2066.6
50°	814.0	849.3	907.3	1008.1	1141.7	1280.3	1423.9	1567.5	1688.6	1774.3	1834.7
52.5°	640.1	672.9	728.3	834.2	970.3	1108.9	1242.4	1383.6	1489.4	1572.6	1612.9
55°	496.5	526.8	584.6	672.9	801.4	937.5	1071.0	1192.1	1290.3	1350.8	1388.7
57.5°	378.0	400.7	441.1	529.2	645.2	771.2	884.6	1005.6	1081.2	1124.1	1149.2
60°	287.3	305.0	347.8	415.9	521.7	630.1	725.8	816.6	877.1	912.3	937.5
62.5°	216.7	236.9	267.1	325.1	405.7	494.0	574.6	642.6	693.0	715.8	733.4
65°	148.6	163.8	186.5	231.8	299.9	362.9	425.9	476.3	509.1	534.3	544.4
67.5°	110.9	121.0	133.6	168.9	216.7	267.1	310.0	345.2	380.6	390.7	408.3
70°	83.2	90.8	103.3	128.5	156.2	191.5	226.9	247.0	272.2	289.8	294.9
72.5°	52.9	55.4	68.0	83.2	105.8	128.5	151.2	168.9	184.0	194.1	199.1
75°	30.3	45.3	45.3	60.5	75.6	85.7	100.8	113.4	121.0	128.5	128.5
77.5°	20.1	27.7	30.3	37.8	45.3	58.0	70.5	78.1	85.7	88.2	88.2
80°	17.6	20.1	20.1	27.7	32.8	42.8	50.4	52.9	58.0	60.5	65.6
82.5°	7.6	10.1	12.6	20.1	22.7	22.7	30.3	32.8	37.8	40.4	40.4
85°	2.5	5.1	5.1	7.6	12.6	15.1	17.6	20.1	22.7	22.7	25.2
87.5°	2.5	2.5	0.0	2.5	5.1	5.1	10.1	10.1	10.1	15.1	15.1
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: P248626

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4	5161.4
2.5°	5116.0	5118.5	5108.4	5106.0	5100.9	5103.4	5108.4
5°	5022.8	5025.3	5015.2	5005.1	5005.1	5002.5	5005.1
7.5°	4934.5	4937.1	4921.9	4916.9	4906.8	4909.4	4909.4
10°	4846.3	4846.3	4823.7	4821.1	4813.5	4811.0	4811.0
12.5°	4760.6	4753.1	4735.4	4725.4	4730.4	4715.3	4715.3
15°	4685.0	4672.5	4649.7	4642.2	4629.6	4624.5	4624.5
17.5°	4606.9	4596.8	4576.7	4561.6	4546.4	4543.9	4546.4
20°	4531.3	4521.2	4496.0	4485.9	4473.4	4473.4	4468.3
22.5°	4455.7	4445.6	4423.0	4415.4	4397.8	4397.8	4400.3
25°	4377.5	4370.0	4344.8	4339.8	4337.3	4327.1	4332.2
27.5°	4271.7	4266.7	4246.5	4239.0	4228.9	4226.4	4231.4
30°	4077.7	4070.1	4055.0	4047.5	4029.8	4032.3	4037.3
32.5°	3835.7	3825.7	3805.5	3797.9	3782.8	3777.8	3780.2
35°	3533.4	3525.8	3508.2	3508.2	3493.0	3487.9	3493.0
37.5°	3225.9	3233.4	3225.9	3233.4	3225.9	3223.3	3225.9
40°	2936.1	2963.8	2968.7	2996.5	2986.5	3001.5	2999.0
42.5°	2658.8	2704.1	2721.9	2744.5	2739.5	2749.6	2757.1
45°	2379.0	2416.9	2434.5	2449.7	2452.2	2457.2	2459.7
47.5°	2114.4	2144.7	2147.2	2164.8	2162.3	2162.3	2169.9
50°	1867.5	1887.6	1892.6	1905.3	1895.2	1890.1	1892.6
52.5°	1638.2	1658.3	1653.2	1658.3	1645.7	1640.6	1643.1
55°	1403.7	1413.8	1413.8	1413.8	1398.7	1398.7	1398.7
57.5°	1164.3	1166.9	1161.8	1164.3	1161.8	1146.7	1144.2
60°	945.1	945.1	942.5	945.1	937.5	930.0	930.0
62.5°	738.4	743.5	753.5	743.5	738.4	743.5	735.9
65°	552.0	562.0	559.4	564.5	562.0	562.0	556.9
67.5°	415.9	418.4	420.8	423.4	423.4	423.4	423.4
70°	305.0	312.5	310.0	310.0	310.0	310.0	325.1
72.5°	204.1	214.2	211.7	216.7	216.7	221.8	216.7
75°	138.6	148.6	143.7	151.2	148.6	143.7	156.2
77.5°	93.3	98.3	100.8	103.3	100.8	98.3	100.8
80°	65.6	70.5	68.0	70.5	70.5	70.5	73.1
82.5°	40.4	47.9	45.3	47.9	45.3	47.9	47.9
85°	27.7	30.3	25.2	30.3	27.7	27.7	32.8
87.5°	17.6	15.1	15.1	17.6	15.1	17.6	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)