

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: P248545

Luminaire Tested: **LD8B90D010 ER8B90827 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248545  
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 ER8B90827 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8845.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 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

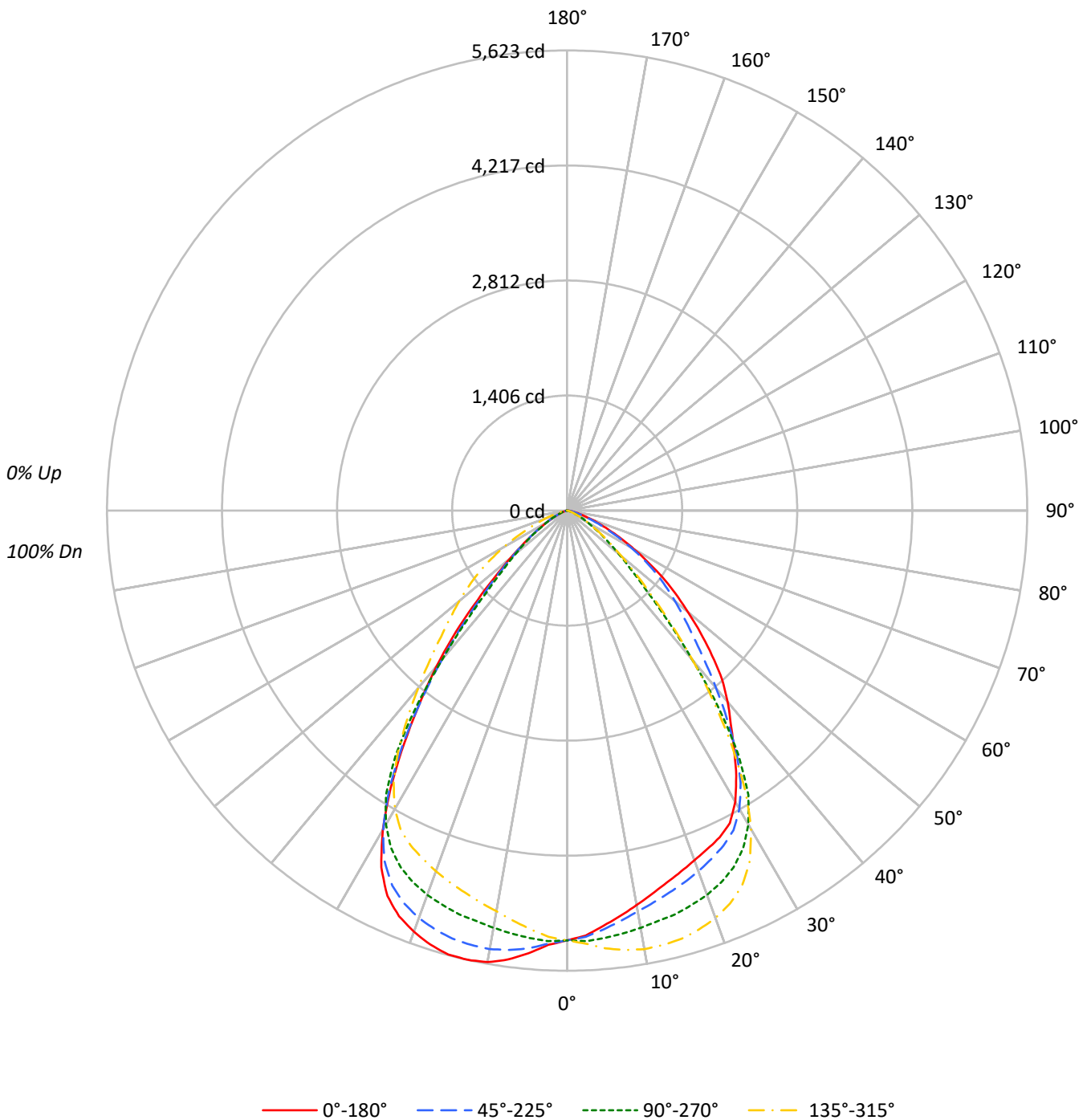
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°	270°
0°	161921	161921	161921	161921
5°	157621	162302	168096	162302
10°	153260	162090	175416	162090
15°	150200	163052	179257	163052
20°	149175	163985	179716	163985
25°	149961	163656	176830	163656
30°	146251	157663	160497	157663
35°	133776	137537	130494	137537
40°	122819	95676	99910	95676
45°	109127	58366	67533	58366
50°	92372	38987	43295	38987
55°	76503	26607	28117	26607
60°	58348	17712	17867	17712
65°	41342	11032	10106	11032
70°	29816	7393	6708	7393
75°	18932	3670	3050	3670
80°	13212	2735	2273	2735
85°	11782	0	885	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.8	5.7
10°-20°	1447.3	16.4
20°-30°	2191.5	24.8
30°-40°	2196.5	24.8
40°-50°	1379.3	15.6
50°-60°	735.0	8.3
60°-70°	302.2	3.4
70°-80°	79.8	0.9
80°-90°	13.5	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°	4138.7	46.8
0°-40°	6335.1	71.6
0°-60°	8449.4	95.5
0°-90°	8845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8845.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5251	5251	5251	5251	5251	
5°	5092	5243	5430	5243	5092	480
15°	4705	5108	5615	5108	4705	1331
25°	4408	4810	5197	4810	4408	2021
35°	3554	3654	3466	3654	3554	2226
45°	2502	1338	1549	1338	2502	1925
55°	1423	495	523	495	1423	1269
65°	567	151	138	151	567	588
75°	159	31	26	31	159	180
85°	33	0	2	0	33	37
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°	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0
2.5°	5197.2	5192.0	5189.5	5194.6	5197.2	5207.4	5204.9	5209.9	5209.9	5212.6	5217.6
5°	5092.1	5089.4	5092.1	5092.1	5102.3	5112.5	5110.0	5117.7	5122.8	5135.6	5140.7
7.5°	4994.7	4994.7	4992.0	5002.3	5007.4	5022.8	5020.2	5033.1	5040.8	5053.5	5071.5
10°	4894.6	4894.6	4897.1	4904.8	4907.5	4930.5	4930.5	4948.4	4958.7	4971.5	4994.7
12.5°	4797.2	4797.2	4812.6	4807.4	4817.7	4835.6	4843.3	4861.3	4876.7	4902.3	4925.4
15°	4704.9	4704.9	4710.0	4722.8	4730.5	4753.6	4766.4	4787.0	4804.9	4830.5	4863.9
17.5°	4625.4	4622.9	4625.4	4640.8	4656.2	4676.7	4686.9	4712.6	4730.5	4763.8	4794.7
20°	4545.9	4551.1	4551.1	4563.9	4574.1	4599.7	4610.0	4638.3	4658.7	4689.4	4725.4
22.5°	4476.7	4474.2	4474.2	4492.1	4499.8	4522.8	4533.0	4558.7	4581.8	4607.4	4640.8
25°	4407.5	4402.3	4412.6	4415.2	4420.2	4445.9	4453.6	4471.5	4494.6	4517.7	4551.1
27.5°	4304.9	4299.8	4302.3	4312.6	4320.3	4340.8	4345.9	4363.9	4381.8	4402.3	4430.6
30°	4107.4	4102.4	4099.8	4117.8	4125.5	4140.8	4148.5	4179.3	4184.4	4207.5	4227.9
32.5°	3845.9	3843.4	3848.5	3863.8	3871.5	3892.1	3902.4	3920.3	3933.1	3946.0	3966.4
35°	3553.7	3548.5	3553.7	3569.1	3569.1	3587.0	3594.7	3602.3	3599.8	3602.3	3597.3
37.5°	3281.9	3279.3	3281.9	3289.5	3281.9	3289.5	3281.9	3266.5	3238.3	3207.5	3176.7
40°	3051.1	3053.7	3038.4	3048.6	3020.3	3015.2	2987.1	2948.5	2892.2	2830.7	2743.5
42.5°	2805.0	2797.3	2787.1	2792.1	2769.1	2751.1	2705.0	2656.3	2584.4	2482.0	2376.8
45°	2502.4	2499.9	2494.7	2492.2	2476.8	2458.9	2420.3	2364.0	2284.5	2179.4	2053.7
47.5°	2207.6	2199.9	2199.9	2202.4	2184.5	2181.9	2151.1	2102.5	2033.2	1930.7	1799.9
50°	1925.5	1923.0	1928.1	1938.4	1925.5	1920.4	1899.9	1866.6	1805.1	1717.9	1594.7
52.5°	1671.7	1669.1	1674.3	1687.1	1681.9	1687.1	1666.6	1641.0	1599.9	1515.3	1407.6
55°	1423.0	1423.0	1423.0	1438.3	1438.3	1438.3	1428.1	1412.8	1374.3	1312.7	1212.8
57.5°	1164.1	1166.6	1182.0	1184.5	1182.0	1187.2	1184.5	1169.1	1143.6	1100.0	1023.1
60°	946.1	946.1	953.8	961.5	958.9	961.5	961.5	953.8	928.2	892.3	830.8
62.5°	748.7	756.4	751.2	756.4	766.6	756.4	751.2	746.1	728.2	705.1	653.8
65°	566.6	571.8	571.8	574.3	569.1	571.8	561.6	553.8	543.6	518.0	484.6
67.5°	430.8	430.8	430.8	430.8	428.2	425.6	423.1	415.4	397.4	387.2	351.2
70°	330.7	315.3	315.3	315.3	315.3	318.0	310.3	300.0	294.9	276.9	251.3
72.5°	220.5	225.6	220.5	220.5	215.4	217.9	207.7	202.5	197.5	187.2	171.8
75°	158.9	146.2	151.2	153.9	146.2	151.2	141.0	130.8	130.8	123.1	115.3
77.5°	102.6	100.0	102.6	105.1	102.6	100.0	94.9	89.7	89.7	87.2	79.5
80°	74.4	71.8	71.8	71.8	69.2	71.8	66.7	66.7	61.5	59.0	53.8
82.5°	48.8	48.8	46.1	48.8	46.1	48.8	41.1	41.1	41.1	38.4	33.3
85°	33.3	28.2	28.2	30.8	25.6	30.8	28.2	25.6	23.1	23.1	20.5
87.5°	15.4	17.9	15.4	17.9	15.4	15.4	17.9	15.4	15.4	10.2	10.2
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°	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0
2.5°	5225.4	5227.9	5227.9	5238.2	5243.3	5245.8	5245.8	5266.4	5258.7	5263.9	5268.9
5°	5151.1	5166.4	5171.5	5171.5	5199.7	5209.9	5220.2	5243.3	5245.8	5261.2	5279.2
7.5°	5079.2	5097.1	5107.5	5130.5	5148.4	5166.4	5197.2	5212.6	5227.9	5248.5	5271.5
10°	5010.0	5030.5	5051.0	5068.9	5097.1	5120.2	5140.7	5176.6	5194.6	5222.8	5253.5
12.5°	4943.4	4971.5	4989.5	5020.2	5051.0	5071.5	5102.3	5135.6	5163.8	5192.0	5227.9
15°	4884.4	4917.7	4938.2	4971.5	5004.9	5033.1	5066.4	5107.5	5127.9	5161.3	5194.6
17.5°	4820.2	4856.2	4881.8	4912.5	4953.6	4984.3	5012.6	5053.5	5079.2	5115.1	5153.6
20°	4753.6	4789.5	4820.2	4851.0	4892.1	4922.8	4956.1	4997.2	5025.4	5061.2	5092.1
22.5°	4674.1	4707.5	4740.7	4776.6	4817.7	4843.3	4881.8	4917.7	4948.4	4981.8	5012.6
25°	4571.6	4612.6	4638.3	4671.5	4704.9	4733.0	4774.1	4810.0	4835.6	4866.4	4894.6
27.5°	4451.0	4481.9	4502.3	4530.5	4563.9	4589.5	4620.2	4656.2	4681.8	4710.0	4730.5
30°	4245.9	4274.2	4292.1	4312.6	4345.9	4369.0	4394.7	4427.9	4445.9	4466.4	4484.4
32.5°	3976.7	3999.8	4010.0	4025.4	4048.5	4071.5	4092.1	4120.3	4128.0	4140.8	4140.8
35°	3587.0	3592.1	3589.6	3594.7	3605.0	3617.7	3635.7	3653.6	3663.9	3663.9	3656.3
37.5°	3130.6	3099.9	3066.5	3040.9	3033.2	3028.0	3038.4	3045.9	3056.3	3061.4	3048.6
40°	2656.3	2587.1	2512.7	2446.0	2399.9	2379.4	2371.7	2376.8	2376.8	2394.7	2394.7
42.5°	2248.6	2140.9	2030.7	1930.7	1864.0	1812.8	1789.7	1789.7	1792.2	1805.1	1812.8
45°	1910.2	1774.3	1646.0	1535.8	1443.5	1376.8	1346.1	1338.4	1335.9	1340.9	1358.9
47.5°	1651.2	1510.2	1376.8	1241.0	1143.6	1076.9	1048.7	1038.4	1028.1	1038.4	1041.0
50°	1448.7	1302.5	1161.5	1025.6	923.0	864.0	828.1	812.7	810.2	810.2	815.4
52.5°	1264.0	1128.2	987.2	848.7	741.0	684.6	651.3	643.6	633.3	643.6	643.6
55°	1089.6	953.8	815.4	684.6	594.8	535.9	505.1	494.9	489.7	497.4	497.4
57.5°	900.0	784.5	656.4	538.4	448.7	407.7	384.6	371.8	369.2	374.3	369.2
60°	738.4	641.0	530.7	423.1	353.9	310.3	292.3	287.2	282.0	287.2	287.2
62.5°	584.6	502.6	412.7	330.7	271.8	241.0	220.5	220.5	217.9	217.9	220.5
65°	433.3	369.2	305.1	235.9	189.8	166.6	151.2	151.2	148.7	151.2	148.7
67.5°	315.3	271.8	220.5	171.8	135.9	123.1	112.8	105.1	110.3	105.1	102.6
70°	230.8	194.8	158.9	130.8	105.1	92.3	84.6	82.0	76.9	76.9	76.9
72.5°	153.9	130.8	107.6	84.6	69.2	56.4	53.8	48.8	43.6	46.1	51.3
75°	102.6	87.2	76.9	61.5	46.1	46.1	30.8	30.8	25.6	30.8	23.1
77.5°	71.8	59.0	46.1	38.4	30.8	28.2	20.5	20.5	17.9	17.9	17.9
80°	51.3	43.6	33.3	28.2	20.5	20.5	17.9	15.4	12.8	12.8	15.4
82.5°	30.8	23.1	23.1	20.5	12.8	10.2	7.7	10.2	5.2	5.2	5.2
85°	17.9	15.4	12.8	7.7	5.2	5.2	2.5	0.0	2.5	2.5	0.0
87.5°	10.2	5.2	5.2	2.5	0.0	2.5	2.5	0.0	0.0	0.0	5.2
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0
2.5°	5281.8	5279.2	5284.3	5284.3	5299.8	5297.1	5304.8	5304.8	5299.8	5302.3	5312.5
5°	5299.8	5307.5	5322.8	5335.6	5358.6	5369.0	5381.8	5394.6	5397.2	5404.9	5412.6
7.5°	5299.8	5325.4	5343.3	5366.3	5397.2	5415.1	5443.3	5466.4	5476.6	5489.4	5504.8
10°	5289.4	5315.1	5348.4	5374.1	5412.6	5440.7	5468.9	5504.8	5520.2	5540.7	5561.3
12.5°	5268.9	5297.1	5333.0	5366.3	5409.9	5435.6	5471.5	5504.8	5527.9	5556.1	5579.2
15°	5238.2	5271.5	5304.8	5338.2	5384.3	5415.1	5448.5	5486.9	5510.0	5540.7	5561.3
17.5°	5189.5	5225.4	5256.2	5286.9	5330.5	5366.3	5397.2	5433.0	5456.2	5481.8	5510.0
20°	5130.5	5163.8	5197.2	5222.8	5266.4	5297.1	5330.5	5363.8	5381.8	5386.9	5430.5
22.5°	5056.2	5079.2	5104.8	5145.9	5171.5	5199.7	5230.5	5261.2	5279.2	5307.5	5322.8
25°	4933.0	4956.1	4984.3	5002.3	5033.1	5056.2	5086.9	5120.2	5130.5	5151.1	5166.4
27.5°	4761.3	4774.1	4787.0	4802.3	4820.2	4833.1	4851.0	4866.4	4876.7	4886.9	4897.1
30°	4489.5	4489.5	4489.5	4479.2	4486.9	4494.6	4497.2	4494.6	4494.6	4492.1	4492.1
32.5°	4130.5	4110.1	4086.9	4066.5	4058.8	4048.5	4043.4	4035.7	4022.9	4015.2	4017.7
35°	3645.9	3599.8	3571.6	3546.0	3525.5	3510.1	3502.4	3494.7	3492.2	3481.9	3471.6
37.5°	3040.9	3007.5	2987.1	2971.7	2953.7	2938.3	2940.8	2943.5	2951.1	2946.0	2948.5
40°	2399.9	2392.2	2399.9	2381.9	2376.8	2381.9	2394.7	2412.7	2423.0	2433.2	2451.2
42.5°	1825.5	1838.3	1856.4	1856.4	1864.0	1874.3	1889.6	1917.9	1933.2	1951.1	1971.7
45°	1374.3	1389.7	1412.8	1420.4	1425.6	1438.3	1456.4	1479.4	1489.6	1505.0	1523.0
47.5°	1058.9	1069.2	1081.9	1094.8	1107.6	1112.8	1130.7	1130.7	1143.6	1153.8	1158.9
50°	825.6	835.8	846.1	853.8	858.9	866.7	871.7	879.4	882.0	887.1	889.7
52.5°	646.1	659.0	659.0	664.0	671.7	679.4	676.9	679.4	682.0	682.0	689.7
55°	505.1	505.1	512.8	512.8	518.0	515.3	518.0	518.0	518.0	518.0	520.5
57.5°	376.9	379.5	387.2	382.0	379.5	384.6	379.5	384.6	382.0	387.2	379.5
60°	289.7	289.7	292.3	292.3	294.9	294.9	294.9	292.3	292.3	289.7	289.7
62.5°	217.9	220.5	223.1	220.5	220.5	220.5	217.9	217.9	215.4	212.8	212.8
65°	146.2	143.6	148.7	143.6	146.2	146.2	143.6	146.2	138.5	141.0	138.5
67.5°	105.1	102.6	100.0	102.6	100.0	97.4	97.4	100.0	102.6	94.9	94.9
70°	69.2	71.8	69.2	71.8	74.4	74.4	71.8	69.2	71.8	66.7	69.2
72.5°	43.6	43.6	43.6	43.6	43.6	46.1	46.1	46.1	41.1	41.1	38.4
75°	20.5	28.2	23.1	20.5	28.2	28.2	25.6	25.6	23.1	23.1	23.1
77.5°	20.5	15.4	15.4	15.4	15.4	15.4	15.4	15.4	12.8	15.4	12.8
80°	10.2	10.2	10.2	7.7	10.2	10.2	12.8	10.2	10.2	7.7	12.8
82.5°	5.2	5.2	5.2	0.0	2.5	5.2	5.2	2.5	5.2	5.2	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: P248545

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0
2.5°	5310.0	5307.5	5310.0	5312.5	5310.0	5307.5	5310.0	5312.5	5302.3	5299.8	5304.8
5°	5422.8	5422.8	5427.9	5430.5	5427.9	5422.8	5422.8	5412.6	5404.9	5397.2	5394.6
7.5°	5520.2	5525.4	5530.5	5533.0	5530.5	5525.4	5520.2	5504.8	5489.4	5476.6	5466.4
10°	5579.2	5586.9	5597.2	5602.2	5597.2	5586.9	5579.2	5561.3	5540.7	5520.2	5504.8
12.5°	5604.9	5612.6	5625.3	5622.8	5625.3	5612.6	5604.9	5579.2	5556.1	5527.9	5504.8
15°	5586.9	5597.2	5609.9	5615.1	5609.9	5597.2	5586.9	5561.3	5540.7	5510.0	5486.9
17.5°	5530.5	5545.9	5553.6	5561.3	5553.6	5545.9	5530.5	5510.0	5481.8	5456.2	5433.0
20°	5453.5	5463.9	5474.1	5476.6	5474.1	5463.9	5453.5	5430.5	5386.9	5381.8	5363.8
22.5°	5343.3	5351.0	5374.1	5366.3	5374.1	5351.0	5343.3	5322.8	5307.5	5279.2	5261.2
25°	5184.3	5192.0	5194.6	5197.2	5194.6	5192.0	5184.3	5166.4	5151.1	5130.5	5120.2
27.5°	4910.0	4910.0	4915.1	4917.7	4915.1	4910.0	4910.0	4897.1	4886.9	4876.7	4866.4
30°	4494.6	4494.6	4494.6	4507.5	4494.6	4494.6	4494.6	4492.1	4492.1	4494.6	4494.6
32.5°	4015.2	4010.0	4004.9	4010.0	4004.9	4010.0	4015.2	4017.7	4015.2	4022.9	4035.7
35°	3471.6	3469.0	3476.7	3466.5	3476.7	3469.0	3471.6	3471.6	3481.9	3492.2	3494.7
37.5°	2951.1	2946.0	2956.2	2946.0	2956.2	2946.0	2951.1	2948.5	2946.0	2951.1	2943.5
40°	2456.3	2461.4	2461.4	2482.0	2461.4	2461.4	2456.3	2451.2	2433.2	2423.0	2412.7
42.5°	1981.9	1997.4	1992.2	2007.6	1992.2	1997.4	1981.9	1971.7	1951.1	1933.2	1917.9
45°	1533.2	1543.6	1543.6	1548.6	1543.6	1543.6	1533.2	1523.0	1505.0	1489.6	1479.4
47.5°	1176.8	1176.8	1176.8	1179.5	1176.8	1176.8	1176.8	1158.9	1153.8	1143.6	1130.7
50°	894.8	897.4	900.0	902.5	900.0	897.4	894.8	889.7	887.1	882.0	879.4
52.5°	687.1	689.7	684.6	689.7	684.6	689.7	687.1	689.7	682.0	682.0	679.4
55°	520.5	518.0	520.5	523.0	520.5	518.0	520.5	520.5	518.0	518.0	518.0
57.5°	382.0	376.9	376.9	376.9	376.9	376.9	382.0	379.5	387.2	382.0	384.6
60°	284.6	287.2	287.2	289.7	287.2	287.2	284.6	289.7	289.7	292.3	292.3
62.5°	210.2	217.9	212.8	217.9	212.8	217.9	210.2	212.8	212.8	215.4	217.9
65°	135.9	135.9	135.9	138.5	135.9	135.9	135.9	138.5	141.0	138.5	146.2
67.5°	92.3	94.9	100.0	97.4	100.0	94.9	92.3	94.9	94.9	102.6	100.0
70°	74.4	66.7	66.7	74.4	66.7	66.7	74.4	69.2	66.7	71.8	69.2
72.5°	43.6	38.4	43.6	43.6	43.6	38.4	43.6	38.4	41.1	41.1	46.1
75°	23.1	20.5	17.9	25.6	17.9	20.5	23.1	23.1	23.1	23.1	25.6
77.5°	15.4	12.8	17.9	17.9	17.9	12.8	15.4	12.8	15.4	12.8	15.4
80°	7.7	10.2	7.7	12.8	7.7	10.2	7.7	12.8	7.7	10.2	10.2
82.5°	2.5	5.2	5.2	5.2	5.2	5.2	2.5	2.5	5.2	5.2	2.5
85°	0.0	5.2	2.5	2.5	2.5	5.2	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: P248545

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0
2.5°	5304.8	5297.1	5299.8	5284.3	5284.3	5279.2	5281.8	5268.9	5263.9	5258.7	5266.4
5°	5381.8	5369.0	5358.6	5335.6	5322.8	5307.5	5299.8	5279.2	5261.2	5245.8	5243.3
7.5°	5443.3	5415.1	5397.2	5366.3	5343.3	5325.4	5299.8	5271.5	5248.5	5227.9	5212.6
10°	5468.9	5440.7	5412.6	5374.1	5348.4	5315.1	5289.4	5253.5	5222.8	5194.6	5176.6
12.5°	5471.5	5435.6	5409.9	5366.3	5333.0	5297.1	5268.9	5227.9	5192.0	5163.8	5135.6
15°	5448.5	5415.1	5384.3	5338.2	5304.8	5271.5	5238.2	5194.6	5161.3	5127.9	5107.5
17.5°	5397.2	5366.3	5330.5	5286.9	5256.2	5225.4	5189.5	5153.6	5115.1	5079.2	5053.5
20°	5330.5	5297.1	5266.4	5222.8	5197.2	5163.8	5130.5	5092.1	5061.2	5025.4	4997.2
22.5°	5230.5	5199.7	5171.5	5145.9	5104.8	5079.2	5056.2	5012.6	4981.8	4948.4	4917.7
25°	5086.9	5056.2	5033.1	5002.3	4984.3	4956.1	4933.0	4894.6	4866.4	4835.6	4810.0
27.5°	4851.0	4833.1	4820.2	4802.3	4787.0	4774.1	4761.3	4730.5	4710.0	4681.8	4656.2
30°	4497.2	4494.6	4486.9	4479.2	4489.5	4489.5	4489.5	4484.4	4466.4	4445.9	4427.9
32.5°	4043.4	4048.5	4058.8	4066.5	4086.9	4110.1	4130.5	4140.8	4140.8	4128.0	4120.3
35°	3502.4	3510.1	3525.5	3546.0	3571.6	3599.8	3645.9	3656.3	3663.9	3663.9	3653.6
37.5°	2940.8	2938.3	2953.7	2971.7	2987.1	3007.5	3040.9	3048.6	3061.4	3056.3	3045.9
40°	2394.7	2381.9	2376.8	2381.9	2399.9	2392.2	2399.9	2394.7	2394.7	2376.8	2376.8
42.5°	1889.6	1874.3	1864.0	1856.4	1856.4	1838.3	1825.5	1812.8	1805.1	1792.2	1789.7
45°	1456.4	1438.3	1425.6	1420.4	1412.8	1389.7	1374.3	1358.9	1340.9	1335.9	1338.4
47.5°	1130.7	1112.8	1107.6	1094.8	1081.9	1069.2	1058.9	1041.0	1038.4	1028.1	1038.4
50°	871.7	866.7	858.9	853.8	846.1	835.8	825.6	815.4	810.2	810.2	812.7
52.5°	676.9	679.4	671.7	664.0	659.0	659.0	646.1	643.6	643.6	633.3	643.6
55°	518.0	515.3	518.0	512.8	512.8	505.1	505.1	497.4	497.4	489.7	494.9
57.5°	379.5	384.6	379.5	382.0	387.2	379.5	376.9	369.2	374.3	369.2	371.8
60°	294.9	294.9	294.9	292.3	292.3	289.7	289.7	287.2	287.2	282.0	287.2
62.5°	217.9	220.5	220.5	220.5	223.1	220.5	217.9	220.5	217.9	217.9	220.5
65°	143.6	146.2	146.2	143.6	148.7	143.6	146.2	148.7	151.2	148.7	151.2
67.5°	97.4	97.4	100.0	102.6	100.0	102.6	105.1	102.6	105.1	110.3	105.1
70°	71.8	74.4	74.4	71.8	69.2	71.8	69.2	76.9	76.9	76.9	82.0
72.5°	46.1	46.1	43.6	43.6	43.6	43.6	43.6	51.3	46.1	43.6	48.8
75°	25.6	28.2	28.2	20.5	23.1	28.2	20.5	23.1	30.8	25.6	30.8
77.5°	15.4	15.4	15.4	15.4	15.4	15.4	20.5	17.9	17.9	17.9	20.5
80°	12.8	10.2	10.2	7.7	10.2	10.2	10.2	15.4	12.8	12.8	15.4
82.5°	5.2	5.2	2.5	0.0	5.2	5.2	5.2	5.2	5.2	5.2	10.2
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	5.2	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: P248545

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0
2.5°	5245.8	5245.8	5243.3	5238.2	5227.9	5227.9	5225.4	5217.6	5212.6	5209.9	5209.9
5°	5220.2	5209.9	5199.7	5171.5	5171.5	5166.4	5151.1	5140.7	5135.6	5122.8	5117.7
7.5°	5197.2	5166.4	5148.4	5130.5	5107.5	5097.1	5079.2	5071.5	5053.5	5040.8	5033.1
10°	5140.7	5120.2	5097.1	5068.9	5051.0	5030.5	5010.0	4994.7	4971.5	4958.7	4948.4
12.5°	5102.3	5071.5	5051.0	5020.2	4989.5	4971.5	4943.4	4925.4	4902.3	4876.7	4861.3
15°	5066.4	5033.1	5004.9	4971.5	4938.2	4917.7	4884.4	4863.9	4830.5	4804.9	4787.0
17.5°	5012.6	4984.3	4953.6	4912.5	4881.8	4856.2	4820.2	4794.7	4763.8	4730.5	4712.6
20°	4956.1	4922.8	4892.1	4851.0	4820.2	4789.5	4753.6	4725.4	4689.4	4658.7	4638.3
22.5°	4881.8	4843.3	4817.7	4776.6	4740.7	4707.5	4674.1	4640.8	4607.4	4581.8	4558.7
25°	4774.1	4733.0	4704.9	4671.5	4638.3	4612.6	4571.6	4551.1	4517.7	4494.6	4471.5
27.5°	4620.2	4589.5	4563.9	4530.5	4502.3	4481.9	4451.0	4430.6	4402.3	4381.8	4363.9
30°	4394.7	4369.0	4345.9	4312.6	4292.1	4274.2	4245.9	4227.9	4207.5	4184.4	4179.3
32.5°	4092.1	4071.5	4048.5	4025.4	4010.0	3999.8	3976.7	3966.4	3946.0	3933.1	3920.3
35°	3635.7	3617.7	3605.0	3594.7	3589.6	3592.1	3587.0	3597.3	3602.3	3599.8	3602.3
37.5°	3038.4	3028.0	3033.2	3040.9	3066.5	3099.9	3130.6	3176.7	3207.5	3238.3	3266.5
40°	2371.7	2379.4	2399.9	2446.0	2512.7	2587.1	2656.3	2743.5	2830.7	2892.2	2948.5
42.5°	1789.7	1812.8	1864.0	1930.7	2030.7	2140.9	2248.6	2376.8	2482.0	2584.4	2656.3
45°	1346.1	1376.8	1443.5	1535.8	1646.0	1774.3	1910.2	2053.7	2179.4	2284.5	2364.0
47.5°	1048.7	1076.9	1143.6	1241.0	1376.8	1510.2	1651.2	1799.9	1930.7	2033.2	2102.5
50°	828.1	864.0	923.0	1025.6	1161.5	1302.5	1448.7	1594.7	1717.9	1805.1	1866.6
52.5°	651.3	684.6	741.0	848.7	987.2	1128.2	1264.0	1407.6	1515.3	1599.9	1641.0
55°	505.1	535.9	594.8	684.6	815.4	953.8	1089.6	1212.8	1312.7	1374.3	1412.8
57.5°	384.6	407.7	448.7	538.4	656.4	784.5	900.0	1023.1	1100.0	1143.6	1169.1
60°	292.3	310.3	353.9	423.1	530.7	641.0	738.4	830.8	892.3	928.2	953.8
62.5°	220.5	241.0	271.8	330.7	412.7	502.6	584.6	653.8	705.1	728.2	746.1
65°	151.2	166.6	189.8	235.9	305.1	369.2	433.3	484.6	518.0	543.6	553.8
67.5°	112.8	123.1	135.9	171.8	220.5	271.8	315.3	351.2	387.2	397.4	415.4
70°	84.6	92.3	105.1	130.8	158.9	194.8	230.8	251.3	276.9	294.9	300.0
72.5°	53.8	56.4	69.2	84.6	107.6	130.8	153.9	171.8	187.2	197.5	202.5
75°	30.8	46.1	46.1	61.5	76.9	87.2	102.6	115.3	123.1	130.8	130.8
77.5°	20.5	28.2	30.8	38.4	46.1	59.0	71.8	79.5	87.2	89.7	89.7
80°	17.9	20.5	20.5	28.2	33.3	43.6	51.3	53.8	59.0	61.5	66.7
82.5°	7.7	10.2	12.8	20.5	23.1	23.1	30.8	33.3	38.4	41.1	41.1
85°	2.5	5.2	5.2	7.7	12.8	15.4	17.9	20.5	23.1	23.1	25.6
87.5°	2.5	2.5	0.0	2.5	5.2	5.2	10.2	10.2	10.2	15.4	15.4
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: P248545

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0
2.5°	5204.9	5207.4	5197.2	5194.6	5189.5	5192.0	5197.2
5°	5110.0	5112.5	5102.3	5092.1	5092.1	5089.4	5092.1
7.5°	5020.2	5022.8	5007.4	5002.3	4992.0	4994.7	4994.7
10°	4930.5	4930.5	4907.5	4904.8	4897.1	4894.6	4894.6
12.5°	4843.3	4835.6	4817.7	4807.4	4812.6	4797.2	4797.2
15°	4766.4	4753.6	4730.5	4722.8	4710.0	4704.9	4704.9
17.5°	4686.9	4676.7	4656.2	4640.8	4625.4	4622.9	4625.4
20°	4610.0	4599.7	4574.1	4563.9	4551.1	4551.1	4545.9
22.5°	4533.0	4522.8	4499.8	4492.1	4474.2	4474.2	4476.7
25°	4453.6	4445.9	4420.2	4415.2	4412.6	4402.3	4407.5
27.5°	4345.9	4340.8	4320.3	4312.6	4302.3	4299.8	4304.9
30°	4148.5	4140.8	4125.5	4117.8	4099.8	4102.4	4107.4
32.5°	3902.4	3892.1	3871.5	3863.8	3848.5	3843.4	3845.9
35°	3594.7	3587.0	3569.1	3569.1	3553.7	3548.5	3553.7
37.5°	3281.9	3289.5	3281.9	3289.5	3281.9	3279.3	3281.9
40°	2987.1	3015.2	3020.3	3048.6	3038.4	3053.7	3051.1
42.5°	2705.0	2751.1	2769.1	2792.1	2787.1	2797.3	2805.0
45°	2420.3	2458.9	2476.8	2492.2	2494.7	2499.9	2502.4
47.5°	2151.1	2181.9	2184.5	2202.4	2199.9	2199.9	2207.6
50°	1899.9	1920.4	1925.5	1938.4	1928.1	1923.0	1925.5
52.5°	1666.6	1687.1	1681.9	1687.1	1674.3	1669.1	1671.7
55°	1428.1	1438.3	1438.3	1438.3	1423.0	1423.0	1423.0
57.5°	1184.5	1187.2	1182.0	1184.5	1182.0	1166.6	1164.1
60°	961.5	961.5	958.9	961.5	953.8	946.1	946.1
62.5°	751.2	756.4	766.6	756.4	751.2	756.4	748.7
65°	561.6	571.8	569.1	574.3	571.8	571.8	566.6
67.5°	423.1	425.6	428.2	430.8	430.8	430.8	430.8
70°	310.3	318.0	315.3	315.3	315.3	315.3	330.7
72.5°	207.7	217.9	215.4	220.5	220.5	225.6	220.5
75°	141.0	151.2	146.2	153.9	151.2	146.2	158.9
77.5°	94.9	100.0	102.6	105.1	102.6	100.0	102.6
80°	66.7	71.8	69.2	71.8	71.8	71.8	74.4
82.5°	41.1	48.8	46.1	48.8	46.1	48.8	48.8
85°	28.2	30.8	25.6	30.8	28.2	28.2	33.3
87.5°	17.9	15.4	15.4	17.9	15.4	17.9	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)