

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: P248671

Luminaire Tested: **LD8B90D010 ER8B90835 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248671
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 ER8B90835 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9345.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

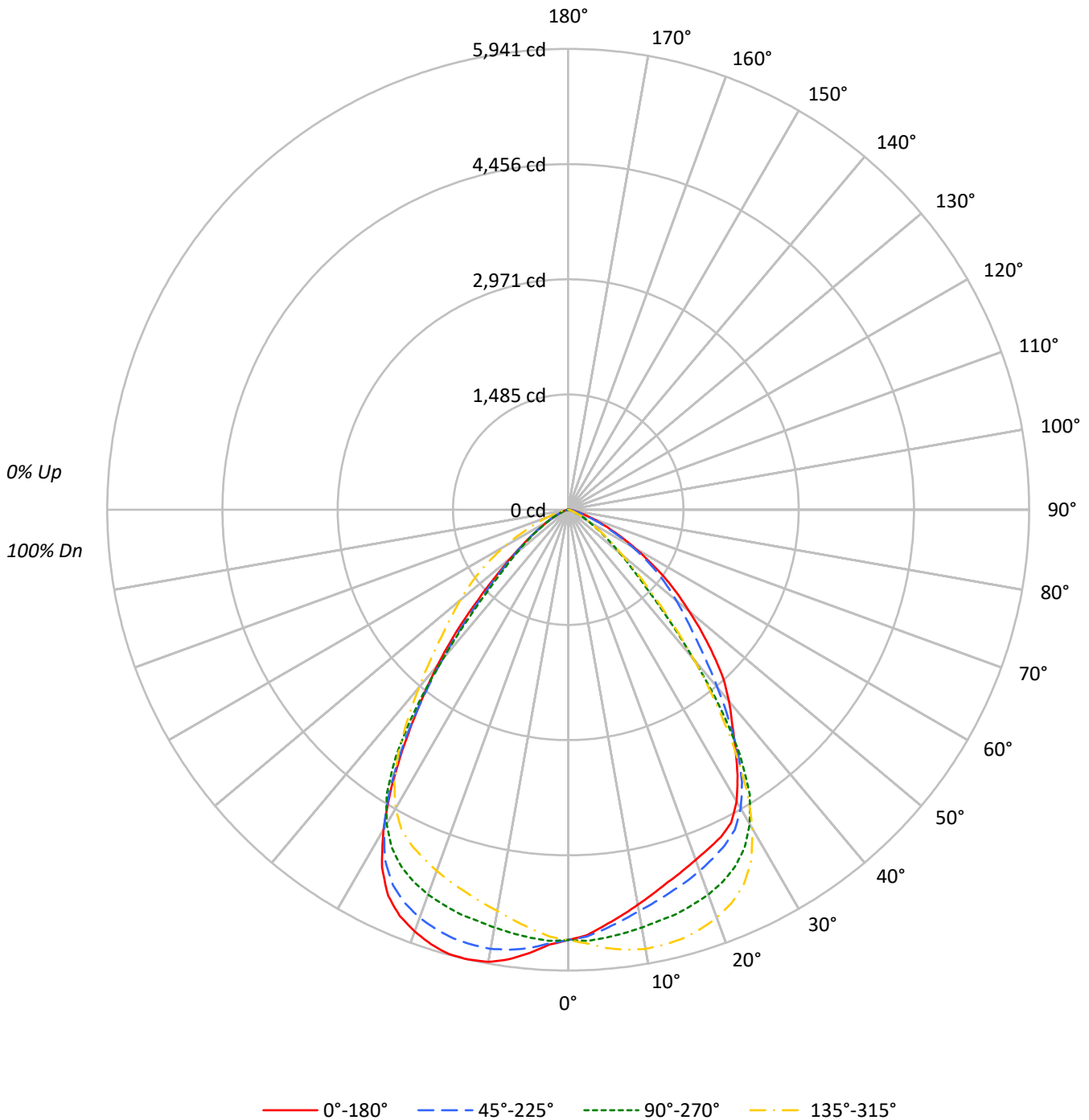
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	171074	171074	171074	171074
5°	166530	171476	177599	171476
10°	161924	171252	185333	171252
15°	158688	172269	189390	172269
20°	157609	173255	189876	173255
25°	158437	172907	186826	172907
30°	154519	166575	169570	166575
35°	141339	145314	137872	145314
40°	129763	101082	105558	101082
45°	115298	61668	71353	61668
50°	97591	41194	45747	41194
55°	80830	28106	29709	28106
60°	61648	18711	18878	18711
65°	43677	11660	10675	11660
70°	31502	7808	7087	7808
75°	20004	3884	3229	3884
80°	13958	2895	2397	2895
85°	12454	0	955	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.1	5.7
10°-20°	1529.1	16.4
20°-30°	2315.4	24.8
30°-40°	2320.6	24.8
40°-50°	1457.2	15.6
50°-60°	776.6	8.3
60°-70°	319.3	3.4
70°-80°	84.4	0.9
80°-90°	14.3	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°	4372.6	46.8
0°-40°	6693.2	71.6
0°-60°	8927.0	95.5
0°-90°	9345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9345.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5548	5548	5548	5548	5548	
5°	5380	5540	5738	5540	5380	507
15°	4971	5396	5932	5396	4971	1406
25°	4657	5082	5491	5082	4657	2136
35°	3755	3860	3662	3860	3755	2352
45°	2644	1414	1636	1414	2644	2033
55°	1504	523	553	523	1504	1340
65°	599	160	146	160	599	621
75°	168	33	27	33	168	190
85°	35	0	3	0	35	39
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°	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8
2.5°	5491.0	5485.5	5482.8	5488.3	5491.0	5501.8	5499.1	5504.5	5504.5	5507.2	5512.6
5°	5379.9	5377.1	5379.9	5379.9	5390.7	5401.5	5398.9	5407.0	5412.4	5426.0	5431.3
7.5°	5277.0	5277.0	5274.2	5285.0	5290.5	5306.8	5304.0	5317.6	5325.7	5339.2	5358.2
10°	5171.3	5171.3	5174.0	5182.1	5184.9	5209.2	5209.2	5228.2	5239.0	5252.6	5277.0
12.5°	5068.4	5068.4	5084.7	5079.2	5090.0	5109.0	5117.1	5136.1	5152.3	5179.4	5203.9
15°	4970.8	4970.8	4976.3	4989.8	4997.9	5022.3	5035.8	5057.6	5076.5	5103.6	5138.8
17.5°	4886.9	4884.2	4886.9	4903.1	4919.4	4941.0	4951.9	4979.0	4997.9	5033.1	5065.7
20°	4802.9	4808.4	4808.4	4821.8	4832.7	4859.8	4870.6	4900.5	4922.1	4954.5	4992.6
22.5°	4729.7	4727.1	4727.1	4746.0	4754.2	4778.5	4789.3	4816.4	4840.8	4867.9	4903.1
25°	4656.6	4651.1	4662.1	4664.7	4670.1	4697.2	4705.3	4724.3	4748.7	4773.1	4808.4
27.5°	4548.2	4542.9	4545.6	4556.4	4564.5	4586.1	4591.6	4610.6	4629.5	4651.1	4681.0
30°	4339.6	4334.3	4331.6	4350.5	4358.7	4374.8	4383.0	4415.5	4420.9	4445.3	4466.9
32.5°	4063.3	4060.6	4066.1	4082.3	4090.4	4112.1	4123.0	4141.9	4155.4	4169.0	4190.6
35°	3754.6	3749.1	3754.6	3770.8	3770.8	3789.8	3797.9	3806.0	3803.3	3806.0	3800.6
37.5°	3467.4	3464.7	3467.4	3475.5	3467.4	3475.5	3467.4	3451.2	3421.4	3388.8	3356.3
40°	3223.6	3226.3	3210.1	3220.9	3191.0	3185.7	3155.9	3115.2	3055.7	2990.7	2898.6
42.5°	2963.6	2955.4	2944.6	2950.0	2925.7	2906.6	2857.9	2806.5	2730.5	2622.3	2511.1
45°	2643.9	2641.2	2635.8	2633.1	2616.8	2597.9	2557.2	2497.6	2413.7	2302.6	2169.8
47.5°	2332.4	2324.2	2324.2	2326.9	2308.0	2305.3	2272.7	2221.3	2148.2	2039.8	1901.6
50°	2034.3	2031.7	2037.1	2047.9	2034.3	2029.0	2007.3	1972.1	1907.1	1815.0	1684.9
52.5°	1766.2	1763.5	1769.0	1782.5	1777.0	1782.5	1760.8	1733.7	1690.4	1600.9	1487.2
55°	1503.5	1503.5	1503.5	1519.6	1519.6	1519.6	1508.8	1492.7	1452.0	1387.0	1281.4
57.5°	1229.9	1232.5	1248.8	1251.5	1248.8	1254.3	1251.5	1235.2	1208.2	1162.2	1080.9
60°	999.6	999.6	1007.7	1015.9	1013.1	1015.9	1015.9	1007.7	980.6	942.7	877.7
62.5°	791.0	799.1	793.7	799.1	809.9	799.1	793.7	788.3	769.4	744.9	690.7
65°	598.6	604.1	604.1	606.8	601.3	604.1	593.3	585.2	574.3	547.2	512.0
67.5°	455.1	455.1	455.1	455.1	452.4	449.7	447.0	438.9	419.9	409.1	371.1
70°	349.4	333.2	333.2	333.2	333.2	336.0	327.8	317.0	311.5	292.6	265.5
72.5°	232.9	238.4	232.9	232.9	227.6	230.2	219.4	214.0	208.6	197.8	181.5
75°	167.9	154.4	159.8	162.6	154.4	159.8	149.0	138.1	138.1	130.0	121.9
77.5°	108.4	105.7	108.4	111.1	108.4	105.7	100.2	94.8	94.8	92.1	84.0
80°	78.6	75.8	75.8	75.8	73.1	75.8	70.5	70.5	65.0	62.3	56.9
82.5°	51.5	51.5	48.7	51.5	48.7	51.5	43.4	43.4	43.4	40.6	35.2
85°	35.2	29.8	29.8	32.6	27.1	32.6	29.8	27.1	24.4	24.4	21.6
87.5°	16.3	19.0	16.3	19.0	16.3	16.3	19.0	16.3	16.3	10.8	10.8
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°	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8
2.5°	5520.7	5523.4	5523.4	5534.3	5539.7	5542.4	5542.4	5564.1	5556.0	5561.4	5566.8
5°	5442.2	5458.4	5463.9	5463.9	5493.6	5504.5	5515.3	5539.7	5542.4	5558.6	5577.6
7.5°	5366.3	5385.3	5396.2	5420.5	5439.5	5458.4	5491.0	5507.2	5523.4	5545.2	5569.5
10°	5293.2	5314.9	5336.5	5355.5	5385.3	5409.7	5431.3	5469.2	5488.3	5518.1	5550.5
12.5°	5222.8	5252.6	5271.5	5304.0	5336.5	5358.2	5390.7	5426.0	5455.7	5485.5	5523.4
15°	5160.5	5195.7	5217.3	5252.6	5287.8	5317.6	5352.8	5396.2	5417.8	5453.1	5488.3
17.5°	5092.7	5130.7	5157.8	5190.2	5233.6	5266.1	5296.0	5339.2	5366.3	5404.2	5444.9
20°	5022.3	5060.2	5092.7	5125.2	5168.6	5201.1	5236.3	5279.7	5309.4	5347.4	5379.9
22.5°	4938.4	4973.6	5008.7	5046.6	5090.0	5117.1	5157.8	5195.7	5228.2	5263.4	5296.0
25°	4830.0	4873.4	4900.5	4935.6	4970.8	5000.6	5044.0	5081.9	5109.0	5141.5	5171.3
27.5°	4702.7	4735.2	4756.8	4786.6	4821.8	4848.9	4881.4	4919.4	4946.5	4976.3	4997.9
30°	4485.9	4515.8	4534.7	4556.4	4591.6	4616.0	4643.1	4678.2	4697.2	4718.9	4737.9
32.5°	4201.5	4225.9	4236.7	4253.0	4277.4	4301.7	4323.4	4353.2	4361.4	4374.8	4374.8
35°	3789.8	3795.2	3792.5	3797.9	3808.8	3822.2	3841.2	3860.2	3871.0	3871.0	3862.9
37.5°	3307.6	3275.1	3239.9	3212.8	3204.6	3199.2	3210.1	3218.1	3229.1	3234.4	3220.9
40°	2806.5	2733.3	2654.7	2584.3	2535.5	2513.9	2505.8	2511.1	2511.1	2530.1	2530.1
42.5°	2375.7	2261.9	2145.5	2039.8	1969.3	1915.2	1890.8	1890.8	1893.5	1907.1	1915.2
45°	2018.2	1874.6	1739.1	1622.7	1525.1	1454.6	1422.2	1414.1	1411.4	1416.7	1435.7
47.5°	1744.5	1595.6	1454.6	1311.1	1208.2	1137.8	1108.0	1097.1	1086.2	1097.1	1099.8
50°	1530.6	1376.1	1227.2	1083.6	975.2	912.9	874.9	858.7	856.0	856.0	861.5
52.5°	1335.4	1191.9	1043.0	896.7	782.8	723.3	688.1	679.9	669.1	679.9	679.9
55°	1151.2	1007.7	861.5	723.3	628.4	566.2	533.6	522.8	517.4	525.5	525.5
57.5°	950.9	828.9	693.5	568.9	474.1	430.7	406.3	392.8	390.0	395.5	390.0
60°	780.2	677.3	560.7	447.0	373.9	327.8	308.9	303.4	297.9	303.4	303.4
62.5°	617.6	531.0	436.1	349.4	287.1	254.7	232.9	232.9	230.2	230.2	232.9
65°	457.8	390.0	322.3	249.2	200.5	176.1	159.8	159.8	157.1	159.8	157.1
67.5°	333.2	287.1	232.9	181.5	143.6	130.0	119.2	111.1	116.5	111.1	108.4
70°	243.9	205.8	167.9	138.1	111.1	97.6	89.4	86.6	81.3	81.3	81.3
72.5°	162.6	138.1	113.7	89.4	73.1	59.5	56.9	51.5	46.0	48.7	54.2
75°	108.4	92.1	81.3	65.0	48.7	48.7	32.6	32.6	27.1	32.6	24.4
77.5°	75.8	62.3	48.7	40.6	32.6	29.8	21.6	21.6	19.0	19.0	19.0
80°	54.2	46.0	35.2	29.8	21.6	21.6	19.0	16.3	13.5	13.5	16.3
82.5°	32.6	24.4	24.4	21.6	13.5	10.8	8.1	10.8	5.5	5.5	5.5
85°	19.0	16.3	13.5	8.1	5.5	5.5	2.7	0.0	2.7	2.7	0.0
87.5°	10.8	5.5	5.5	2.7	0.0	2.7	2.7	0.0	0.0	0.0	5.5
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°	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8
2.5°	5580.4	5577.6	5583.1	5583.1	5599.3	5596.6	5604.7	5604.7	5599.3	5602.0	5612.8
5°	5599.3	5607.5	5623.7	5637.3	5661.6	5672.5	5686.0	5699.6	5702.3	5710.4	5718.5
7.5°	5599.3	5626.4	5645.4	5669.7	5702.3	5721.2	5751.0	5775.4	5786.2	5799.7	5816.0
10°	5588.4	5615.5	5650.7	5677.8	5718.5	5748.3	5778.1	5816.0	5832.3	5853.9	5875.6
12.5°	5566.8	5596.6	5634.5	5669.7	5715.8	5742.8	5780.8	5816.0	5840.4	5870.2	5894.6
15°	5534.3	5569.5	5604.7	5639.9	5688.7	5721.2	5756.4	5797.0	5821.5	5853.9	5875.6
17.5°	5482.8	5520.7	5553.3	5585.7	5631.8	5669.7	5702.3	5740.2	5764.6	5791.7	5821.5
20°	5420.5	5455.7	5491.0	5518.1	5564.1	5596.6	5631.8	5667.0	5686.0	5691.4	5737.5
22.5°	5342.0	5366.3	5393.4	5436.8	5463.9	5493.6	5526.2	5558.6	5577.6	5607.5	5623.7
25°	5211.9	5236.3	5266.1	5285.0	5317.6	5342.0	5374.4	5409.7	5420.5	5442.2	5458.4
27.5°	5030.5	5044.0	5057.6	5073.7	5092.7	5106.3	5125.2	5141.5	5152.3	5163.2	5174.0
30°	4743.2	4743.2	4743.2	4732.4	4740.6	4748.7	4751.4	4748.7	4748.7	4746.0	4746.0
32.5°	4364.0	4342.4	4318.0	4296.3	4288.2	4277.4	4271.9	4263.8	4250.3	4242.2	4244.8
35°	3852.0	3803.3	3773.5	3746.4	3724.8	3708.5	3700.4	3692.2	3689.6	3678.7	3667.8
37.5°	3212.8	3177.5	3155.9	3139.6	3120.7	3104.4	3107.1	3109.9	3117.9	3112.5	3115.2
40°	2535.5	2527.4	2535.5	2516.6	2511.1	2516.6	2530.1	2549.1	2559.9	2570.8	2589.7
42.5°	1928.7	1942.2	1961.3	1961.3	1969.3	1980.3	1996.4	2026.3	2042.5	2061.4	2083.2
45°	1452.0	1468.2	1492.7	1500.7	1506.2	1519.6	1538.7	1563.0	1573.8	1590.1	1609.1
47.5°	1118.8	1129.6	1143.1	1156.7	1170.2	1175.7	1194.6	1194.6	1208.2	1219.0	1224.4
50°	872.3	883.1	893.9	902.0	907.5	915.6	921.0	929.1	931.8	937.3	940.0
52.5°	682.6	696.2	696.2	701.6	709.7	717.8	715.2	717.8	720.5	720.5	728.7
55°	533.6	533.6	541.8	541.8	547.2	544.5	547.2	547.2	547.2	547.2	549.9
57.5°	398.2	401.0	409.1	403.6	401.0	406.3	401.0	406.3	403.6	409.1	401.0
60°	306.1	306.1	308.9	308.9	311.5	311.5	311.5	308.9	308.9	306.1	306.1
62.5°	230.2	232.9	235.7	232.9	232.9	232.9	230.2	230.2	227.6	224.8	224.8
65°	154.4	151.8	157.1	151.8	154.4	154.4	151.8	154.4	146.3	149.0	146.3
67.5°	111.1	108.4	105.7	108.4	105.7	102.9	102.9	105.7	108.4	100.2	100.2
70°	73.1	75.8	73.1	75.8	78.6	78.6	75.8	73.1	75.8	70.5	73.1
72.5°	46.0	46.0	46.0	46.0	46.0	48.7	48.7	48.7	43.4	43.4	40.6
75°	21.6	29.8	24.4	21.6	29.8	29.8	27.1	27.1	24.4	24.4	24.4
77.5°	21.6	16.3	16.3	16.3	16.3	16.3	16.3	16.3	13.5	16.3	13.5
80°	10.8	10.8	10.8	8.1	10.8	10.8	13.5	10.8	10.8	8.1	13.5
82.5°	5.5	5.5	5.5	0.0	2.7	5.5	5.5	2.7	5.5	5.5	2.7
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: P248671

CATALOG NUMBER: LD8B90D010 ER8B90835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8
2.5°	5610.2	5607.5	5610.2	5612.8	5610.2	5607.5	5610.2	5612.8	5602.0	5599.3	5604.7
5°	5729.4	5729.4	5734.7	5737.5	5734.7	5729.4	5729.4	5718.5	5710.4	5702.3	5699.6
7.5°	5832.3	5837.7	5843.1	5845.8	5843.1	5837.7	5832.3	5816.0	5799.7	5786.2	5775.4
10°	5894.6	5902.7	5913.6	5918.9	5913.6	5902.7	5894.6	5875.6	5853.9	5832.3	5816.0
12.5°	5921.7	5929.8	5943.3	5940.6	5943.3	5929.8	5921.7	5894.6	5870.2	5840.4	5816.0
15°	5902.7	5913.6	5927.0	5932.5	5927.0	5913.6	5902.7	5875.6	5853.9	5821.5	5797.0
17.5°	5843.1	5859.4	5867.5	5875.6	5867.5	5859.4	5843.1	5821.5	5791.7	5764.6	5740.2
20°	5761.8	5772.7	5783.5	5786.2	5783.5	5772.7	5761.8	5737.5	5691.4	5686.0	5667.0
22.5°	5645.4	5653.5	5677.8	5669.7	5677.8	5653.5	5645.4	5623.7	5607.5	5577.6	5558.6
25°	5477.4	5485.5	5488.3	5491.0	5488.3	5485.5	5477.4	5458.4	5442.2	5420.5	5409.7
27.5°	5187.6	5187.6	5192.9	5195.7	5192.9	5187.6	5187.6	5174.0	5163.2	5152.3	5141.5
30°	4748.7	4748.7	4748.7	4762.3	4748.7	4748.7	4748.7	4746.0	4746.0	4748.7	4748.7
32.5°	4242.2	4236.7	4231.3	4236.7	4231.3	4236.7	4242.2	4244.8	4242.2	4250.3	4263.8
35°	3667.8	3665.1	3673.3	3662.5	3673.3	3665.1	3667.8	3667.8	3678.7	3689.6	3692.2
37.5°	3117.9	3112.5	3123.4	3112.5	3123.4	3112.5	3117.9	3115.2	3115.2	3117.9	3109.9
40°	2595.2	2600.5	2600.5	2622.3	2600.5	2600.5	2595.2	2589.7	2570.8	2559.9	2549.1
42.5°	2094.0	2110.3	2104.8	2121.1	2104.8	2110.3	2094.0	2083.2	2061.4	2042.5	2026.3
45°	1619.9	1630.8	1630.8	1636.2	1630.8	1630.8	1619.9	1609.1	1590.1	1573.8	1563.0
47.5°	1243.3	1243.3	1243.3	1246.1	1243.3	1243.3	1243.3	1224.4	1219.0	1208.2	1194.6
50°	945.4	948.1	950.9	953.6	950.9	948.1	945.4	940.0	937.3	931.8	929.1
52.5°	726.0	728.7	723.3	728.7	723.3	728.7	726.0	728.7	720.5	720.5	717.8
55°	549.9	547.2	549.9	552.6	549.9	547.2	549.9	549.9	547.2	547.2	547.2
57.5°	403.6	398.2	398.2	398.2	398.2	398.2	403.6	401.0	409.1	403.6	406.3
60°	300.7	303.4	303.4	306.1	303.4	303.4	300.7	306.1	306.1	308.9	308.9
62.5°	222.1	230.2	224.8	230.2	224.8	230.2	222.1	224.8	224.8	227.6	230.2
65°	143.6	143.6	143.6	146.3	143.6	143.6	143.6	146.3	149.0	146.3	154.4
67.5°	97.6	100.2	105.7	102.9	105.7	100.2	97.6	100.2	100.2	108.4	105.7
70°	78.6	70.5	70.5	78.6	70.5	70.5	78.6	73.1	70.5	75.8	73.1
72.5°	46.0	40.6	46.0	46.0	46.0	40.6	46.0	40.6	43.4	43.4	48.7
75°	24.4	21.6	19.0	27.1	19.0	21.6	24.4	24.4	24.4	24.4	27.1
77.5°	16.3	13.5	19.0	19.0	19.0	13.5	16.3	13.5	16.3	13.5	16.3
80°	8.1	10.8	8.1	13.5	8.1	10.8	8.1	13.5	8.1	10.8	10.8
82.5°	2.7	5.5	5.5	5.5	5.5	5.5	2.7	2.7	5.5	5.5	2.7
85°	0.0	5.5	2.7	2.7	2.7	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	2.7	0.0	0.0	2.7	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: P248671

CATALOG NUMBER: LD8B90D010 ER8B90835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8
2.5°	5604.7	5596.6	5599.3	5583.1	5583.1	5577.6	5580.4	5566.8	5561.4	5556.0	5564.1
5°	5686.0	5672.5	5661.6	5637.3	5623.7	5607.5	5599.3	5577.6	5558.6	5542.4	5539.7
7.5°	5751.0	5721.2	5702.3	5669.7	5645.4	5626.4	5599.3	5569.5	5545.2	5523.4	5507.2
10°	5778.1	5748.3	5718.5	5677.8	5650.7	5615.5	5588.4	5550.5	5518.1	5488.3	5469.2
12.5°	5780.8	5742.8	5715.8	5669.7	5634.5	5596.6	5566.8	5523.4	5485.5	5455.7	5426.0
15°	5756.4	5721.2	5688.7	5639.9	5604.7	5569.5	5534.3	5488.3	5453.1	5417.8	5396.2
17.5°	5702.3	5669.7	5631.8	5585.7	5553.3	5520.7	5482.8	5444.9	5404.2	5366.3	5339.2
20°	5631.8	5596.6	5564.1	5518.1	5491.0	5455.7	5420.5	5379.9	5347.4	5309.4	5279.7
22.5°	5526.2	5493.6	5463.9	5436.8	5393.4	5366.3	5342.0	5296.0	5263.4	5228.2	5195.7
25°	5374.4	5342.0	5317.6	5285.0	5266.1	5236.3	5211.9	5171.3	5141.5	5109.0	5081.9
27.5°	5125.2	5106.3	5092.7	5073.7	5057.6	5044.0	5030.5	4997.9	4976.3	4946.5	4919.4
30°	4751.4	4748.7	4740.6	4732.4	4743.2	4743.2	4743.2	4737.9	4718.9	4697.2	4678.2
32.5°	4271.9	4277.4	4288.2	4296.3	4318.0	4342.4	4364.0	4374.8	4374.8	4361.4	4353.2
35°	3700.4	3708.5	3724.8	3746.4	3773.5	3803.3	3852.0	3862.9	3871.0	3871.0	3860.2
37.5°	3107.1	3104.4	3120.7	3139.6	3155.9	3177.5	3212.8	3220.9	3234.4	3229.1	3218.1
40°	2530.1	2516.6	2511.1	2516.6	2535.5	2527.4	2535.5	2530.1	2530.1	2511.1	2511.1
42.5°	1996.4	1980.3	1969.3	1961.3	1961.3	1942.2	1928.7	1915.2	1907.1	1893.5	1890.8
45°	1538.7	1519.6	1506.2	1500.7	1492.7	1468.2	1452.0	1435.7	1416.7	1411.4	1414.1
47.5°	1194.6	1175.7	1170.2	1156.7	1143.1	1129.6	1118.8	1099.8	1097.1	1086.2	1097.1
50°	921.0	915.6	907.5	902.0	893.9	883.1	872.3	861.5	856.0	856.0	858.7
52.5°	715.2	717.8	709.7	701.6	696.2	696.2	682.6	679.9	679.9	669.1	679.9
55°	547.2	544.5	547.2	541.8	541.8	533.6	533.6	525.5	525.5	517.4	522.8
57.5°	401.0	406.3	401.0	403.6	409.1	401.0	398.2	390.0	395.5	390.0	392.8
60°	311.5	311.5	311.5	308.9	308.9	306.1	306.1	303.4	303.4	297.9	303.4
62.5°	230.2	232.9	232.9	232.9	235.7	232.9	230.2	232.9	230.2	230.2	232.9
65°	151.8	154.4	154.4	151.8	157.1	151.8	154.4	157.1	159.8	157.1	159.8
67.5°	102.9	102.9	105.7	108.4	105.7	108.4	111.1	108.4	111.1	116.5	111.1
70°	75.8	78.6	78.6	75.8	73.1	75.8	73.1	81.3	81.3	81.3	86.6
72.5°	48.7	48.7	46.0	46.0	46.0	46.0	46.0	54.2	48.7	46.0	51.5
75°	27.1	29.8	29.8	21.6	24.4	29.8	21.6	24.4	32.6	27.1	32.6
77.5°	16.3	16.3	16.3	16.3	16.3	16.3	21.6	19.0	19.0	19.0	21.6
80°	13.5	10.8	10.8	8.1	10.8	10.8	10.8	16.3	13.5	13.5	16.3
82.5°	5.5	5.5	2.7	0.0	5.5	5.5	5.5	5.5	5.5	5.5	10.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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: P248671

CATALOG NUMBER: LD8B90D010 ER8B90835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8
2.5°	5542.4	5542.4	5539.7	5534.3	5523.4	5523.4	5520.7	5512.6	5507.2	5504.5	5504.5
5°	5515.3	5504.5	5493.6	5463.9	5463.9	5458.4	5442.2	5431.3	5426.0	5412.4	5407.0
7.5°	5491.0	5458.4	5439.5	5420.5	5396.2	5385.3	5366.3	5358.2	5339.2	5325.7	5317.6
10°	5431.3	5409.7	5385.3	5355.5	5336.5	5314.9	5293.2	5277.0	5252.6	5239.0	5228.2
12.5°	5390.7	5358.2	5336.5	5304.0	5271.5	5252.6	5222.8	5203.9	5179.4	5152.3	5136.1
15°	5352.8	5317.6	5287.8	5252.6	5217.3	5195.7	5160.5	5138.8	5103.6	5076.5	5057.6
17.5°	5296.0	5266.1	5233.6	5190.2	5157.8	5130.7	5092.7	5065.7	5033.1	4997.9	4979.0
20°	5236.3	5201.1	5168.6	5125.2	5092.7	5060.2	5022.3	4992.6	4954.5	4922.1	4900.5
22.5°	5157.8	5117.1	5090.0	5046.6	5008.7	4973.6	4938.4	4903.1	4867.9	4840.8	4816.4
25°	5044.0	5000.6	4970.8	4935.6	4900.5	4873.4	4830.0	4808.4	4773.1	4748.7	4724.3
27.5°	4881.4	4848.9	4821.8	4786.6	4756.8	4735.2	4702.7	4681.0	4651.1	4629.5	4610.6
30°	4643.1	4616.0	4591.6	4556.4	4534.7	4515.8	4485.9	4466.9	4445.3	4420.9	4415.5
32.5°	4323.4	4301.7	4277.4	4253.0	4236.7	4225.9	4201.5	4190.6	4169.0	4155.4	4141.9
35°	3841.2	3822.2	3808.8	3797.9	3792.5	3795.2	3789.8	3800.6	3806.0	3803.3	3806.0
37.5°	3210.1	3199.2	3204.6	3212.8	3239.9	3275.1	3307.6	3356.3	3388.8	3421.4	3451.2
40°	2505.8	2513.9	2535.5	2584.3	2654.7	2733.3	2806.5	2898.6	2990.7	3055.7	3115.2
42.5°	1890.8	1915.2	1969.3	2039.8	2145.5	2261.9	2375.7	2511.1	2622.3	2730.5	2806.5
45°	1422.2	1454.6	1525.1	1622.7	1739.1	1874.6	2018.2	2169.8	2302.6	2413.7	2497.6
47.5°	1108.0	1137.8	1208.2	1311.1	1454.6	1595.6	1744.5	1901.6	2039.8	2148.2	2221.3
50°	874.9	912.9	975.2	1083.6	1227.2	1376.1	1530.6	1684.9	1815.0	1907.1	1972.1
52.5°	688.1	723.3	782.8	896.7	1043.0	1191.9	1335.4	1487.2	1600.9	1690.4	1733.7
55°	533.6	566.2	628.4	723.3	861.5	1007.7	1151.2	1281.4	1387.0	1452.0	1492.7
57.5°	406.3	430.7	474.1	568.9	693.5	828.9	950.9	1080.9	1162.2	1208.2	1235.2
60°	308.9	327.8	373.9	447.0	560.7	677.3	780.2	877.7	942.7	980.6	1007.7
62.5°	232.9	254.7	287.1	349.4	436.1	531.0	617.6	690.7	744.9	769.4	788.3
65°	159.8	176.1	200.5	249.2	322.3	390.0	457.8	512.0	547.2	574.3	585.2
67.5°	119.2	130.0	143.6	181.5	232.9	287.1	333.2	371.1	409.1	419.9	438.9
70°	89.4	97.6	111.1	138.1	167.9	205.8	243.9	265.5	292.6	311.5	317.0
72.5°	56.9	59.5	73.1	89.4	113.7	138.1	162.6	181.5	197.8	208.6	214.0
75°	32.6	48.7	48.7	65.0	81.3	92.1	108.4	121.9	130.0	138.1	138.1
77.5°	21.6	29.8	32.6	40.6	48.7	62.3	75.8	84.0	92.1	94.8	94.8
80°	19.0	21.6	21.6	29.8	35.2	46.0	54.2	56.9	62.3	65.0	70.5
82.5°	8.1	10.8	13.5	21.6	24.4	24.4	32.6	35.2	40.6	43.4	43.4
85°	2.7	5.5	5.5	8.1	13.5	16.3	19.0	21.6	24.4	24.4	27.1
87.5°	2.7	2.7	0.0	2.7	5.5	5.5	10.8	10.8	10.8	16.3	16.3
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: P248671

CATALOG NUMBER: LD8B90D010 ER8B90835 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8	5547.8
2.5°	5499.1	5501.8	5491.0	5488.3	5482.8	5485.5	5491.0
5°	5398.9	5401.5	5390.7	5379.9	5379.9	5377.1	5379.9
7.5°	5304.0	5306.8	5290.5	5285.0	5274.2	5277.0	5277.0
10°	5209.2	5209.2	5184.9	5182.1	5174.0	5171.3	5171.3
12.5°	5117.1	5109.0	5090.0	5079.2	5084.7	5068.4	5068.4
15°	5035.8	5022.3	4997.9	4989.8	4976.3	4970.8	4970.8
17.5°	4951.9	4941.0	4919.4	4903.1	4886.9	4884.2	4886.9
20°	4870.6	4859.8	4832.7	4821.8	4808.4	4808.4	4802.9
22.5°	4789.3	4778.5	4754.2	4746.0	4727.1	4727.1	4729.7
25°	4705.3	4697.2	4670.1	4664.7	4662.1	4651.1	4656.6
27.5°	4591.6	4586.1	4564.5	4556.4	4545.6	4542.9	4548.2
30°	4383.0	4374.8	4358.7	4350.5	4331.6	4334.3	4339.6
32.5°	4123.0	4112.1	4090.4	4082.3	4066.1	4060.6	4063.3
35°	3797.9	3789.8	3770.8	3770.8	3754.6	3749.1	3754.6
37.5°	3467.4	3475.5	3467.4	3475.5	3467.4	3464.7	3467.4
40°	3155.9	3185.7	3191.0	3220.9	3210.1	3226.3	3223.6
42.5°	2857.9	2906.6	2925.7	2950.0	2944.6	2955.4	2963.6
45°	2557.2	2597.9	2616.8	2633.1	2635.8	2641.2	2643.9
47.5°	2272.7	2305.3	2308.0	2326.9	2324.2	2324.2	2332.4
50°	2007.3	2029.0	2034.3	2047.9	2037.1	2031.7	2034.3
52.5°	1760.8	1782.5	1777.0	1782.5	1769.0	1763.5	1766.2
55°	1508.8	1519.6	1519.6	1519.6	1503.5	1503.5	1503.5
57.5°	1251.5	1254.3	1248.8	1251.5	1248.8	1232.5	1229.9
60°	1015.9	1015.9	1013.1	1015.9	1007.7	999.6	999.6
62.5°	793.7	799.1	809.9	799.1	793.7	799.1	791.0
65°	593.3	604.1	601.3	606.8	604.1	604.1	598.6
67.5°	447.0	449.7	452.4	455.1	455.1	455.1	455.1
70°	327.8	336.0	333.2	333.2	333.2	333.2	349.4
72.5°	219.4	230.2	227.6	232.9	232.9	238.4	232.9
75°	149.0	159.8	154.4	162.6	159.8	154.4	167.9
77.5°	100.2	105.7	108.4	111.1	108.4	105.7	108.4
80°	70.5	75.8	73.1	75.8	75.8	75.8	78.6
82.5°	43.4	51.5	48.7	51.5	48.7	51.5	51.5
85°	29.8	32.6	27.1	32.6	29.8	29.8	35.2
87.5°	19.0	16.3	16.3	19.0	16.3	19.0	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)