

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: P248734

Luminaire Tested: **LD8B90D010 ER8B90950 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248734
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 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8618.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

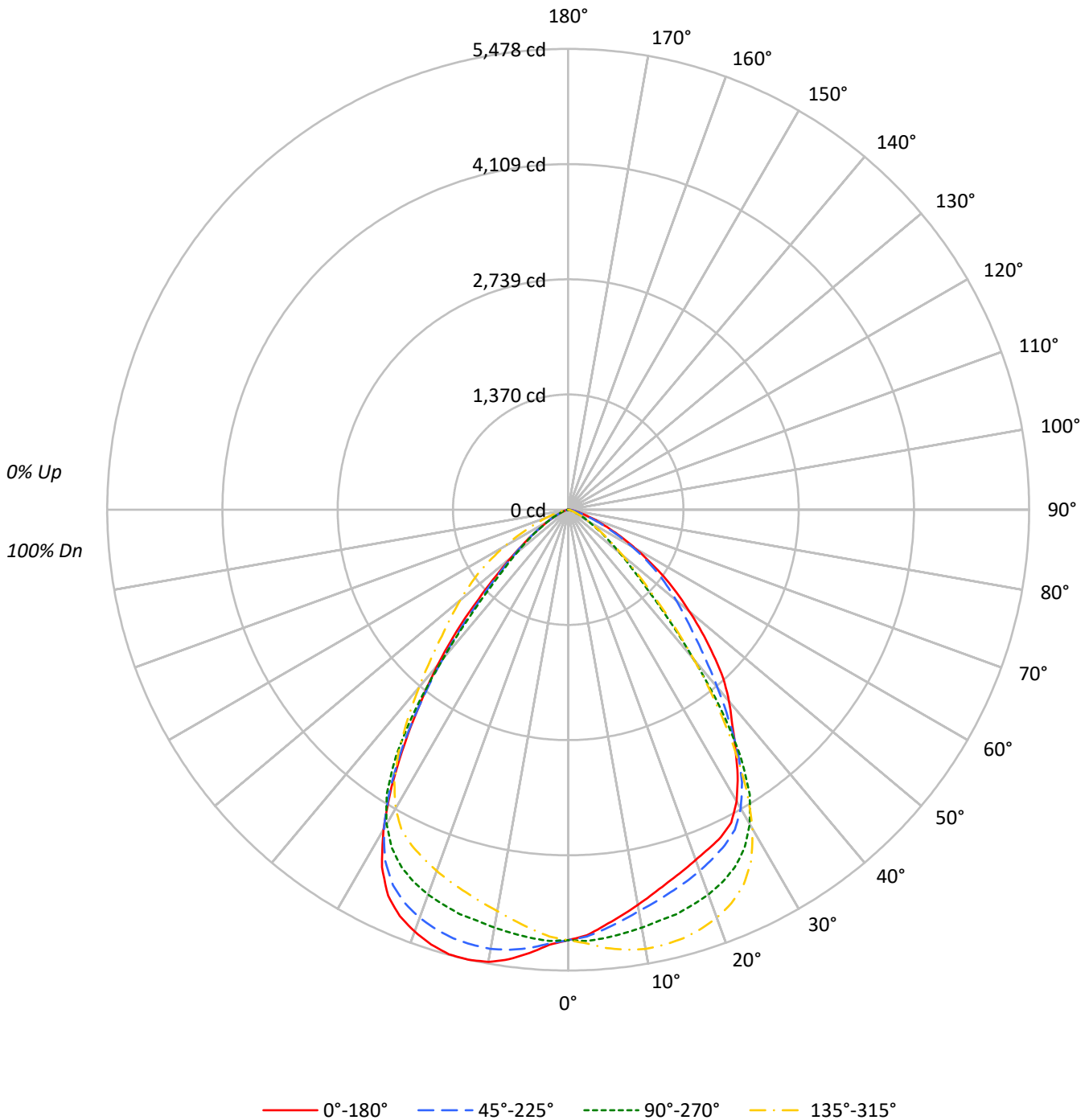
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	157765	157765	157765	157765
5°	153576	158135	163781	158135
10°	149327	157928	170913	157928
15°	146343	158867	174657	158867
20°	145349	159775	175106	159775
25°	146110	159454	172291	159454
30°	142498	153618	156378	153618
35°	130343	134010	127143	134010
40°	119667	93220	97346	93220
45°	106328	56866	65802	56866
50°	90002	37990	42187	37990
55°	74540	25924	27397	25924
60°	56850	17256	17410	17256
65°	40284	10755	9843	10755
70°	29058	7204	6537	7204
75°	18455	3574	2979	3574
80°	12874	2664	2202	2664
85°	11499	0	885	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.0	5.7
10°-20°	1410.2	16.4
20°-30°	2135.3	24.8
30°-40°	2140.1	24.8
40°-50°	1343.9	15.6
50°-60°	716.1	8.3
60°-70°	294.5	3.4
70°-80°	77.8	0.9
80°-90°	13.2	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4032.4	46.8
0°-40°	6172.5	71.6
0°-60°	8232.5	95.5
0°-90°	8618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8618.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5116	5116	5116	5116	5116	
5°	4961	5109	5291	5109	4961	468
15°	4584	4976	5471	4976	4584	1297
25°	4294	4686	5064	4686	4294	1970
35°	3462	3560	3378	3560	3462	2169
45°	2438	1304	1509	1304	2438	1875
55°	1386	482	510	482	1386	1236
65°	552	147	135	147	552	573
75°	155	30	25	30	155	175
85°	32	0	2	0	32	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°	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2
2.5°	5063.8	5058.8	5056.3	5061.3	5063.8	5073.8	5071.3	5076.2	5076.2	5078.8	5083.7
5°	4961.4	4958.8	4961.4	4961.4	4971.4	4981.3	4978.9	4986.4	4991.3	5003.8	5008.8
7.5°	4866.5	4866.5	4863.9	4873.9	4878.9	4893.9	4891.4	4903.9	4911.4	4923.8	4941.3
10°	4769.0	4769.0	4771.5	4779.0	4781.5	4803.9	4803.9	4821.4	4831.4	4843.9	4866.5
12.5°	4674.1	4674.1	4689.1	4684.1	4694.0	4711.5	4719.0	4736.5	4751.5	4776.5	4799.0
15°	4584.1	4584.1	4589.1	4601.6	4609.1	4631.6	4644.1	4664.1	4681.6	4706.6	4739.1
17.5°	4506.7	4504.2	4506.7	4521.7	4536.7	4556.7	4566.6	4591.6	4609.1	4641.6	4671.6
20°	4429.3	4434.3	4434.3	4446.7	4456.7	4481.7	4491.7	4519.2	4539.2	4569.1	4604.2
22.5°	4361.8	4359.3	4359.3	4376.8	4384.3	4406.7	4416.7	4441.7	4464.2	4489.2	4521.7
25°	4294.3	4289.3	4299.4	4301.8	4306.8	4331.8	4339.3	4356.8	4379.3	4401.8	4434.3
27.5°	4194.4	4189.5	4191.9	4201.9	4209.4	4229.4	4234.4	4251.9	4269.4	4289.3	4316.9
30°	4002.0	3997.1	3994.6	4012.1	4019.6	4034.5	4042.0	4072.0	4077.0	4099.5	4119.4
32.5°	3747.2	3744.7	3749.8	3764.7	3772.2	3792.2	3802.2	3819.7	3832.1	3844.7	3864.6
35°	3462.5	3457.4	3462.5	3477.5	3477.5	3495.0	3502.5	3509.9	3507.4	3509.9	3504.9
37.5°	3197.7	3195.1	3197.7	3205.1	3197.7	3205.1	3197.7	3182.7	3155.2	3125.2	3095.2
40°	2972.8	2975.3	2960.4	2970.3	2942.8	2937.9	2910.4	2872.9	2818.0	2758.0	2673.1
42.5°	2733.0	2725.5	2715.5	2720.5	2698.1	2680.5	2635.5	2588.1	2518.1	2418.3	2315.8
45°	2438.2	2435.8	2430.7	2428.2	2413.2	2395.8	2358.2	2303.3	2225.9	2123.5	2001.0
47.5°	2150.9	2143.4	2143.4	2145.9	2128.4	2125.9	2095.9	2048.5	1981.1	1881.1	1753.7
50°	1876.1	1873.6	1878.6	1888.6	1876.1	1871.1	1851.2	1818.7	1758.7	1673.8	1553.8
52.5°	1628.8	1626.3	1631.3	1643.8	1638.7	1643.8	1623.8	1598.8	1558.8	1476.4	1371.5
55°	1386.5	1386.5	1386.5	1401.4	1401.4	1401.4	1391.4	1376.5	1339.0	1279.1	1181.7
57.5°	1134.2	1136.6	1151.7	1154.1	1151.7	1156.7	1154.1	1139.1	1114.2	1071.8	996.8
60°	921.8	921.8	929.3	936.9	934.3	936.9	936.9	929.3	904.4	869.4	809.4
62.5°	729.5	737.0	731.9	737.0	746.9	737.0	731.9	727.0	709.5	687.0	637.0
65°	552.1	557.1	557.1	559.6	554.5	557.1	547.1	539.6	529.7	504.7	472.2
67.5°	419.7	419.7	419.7	419.7	417.2	414.7	412.2	404.7	387.2	377.3	342.2
70°	322.3	307.2	307.2	307.2	307.2	309.8	302.3	292.3	287.3	269.8	244.8
72.5°	214.8	219.8	214.8	214.8	209.9	212.3	202.4	197.3	192.4	182.4	167.4
75°	154.9	142.4	147.4	149.9	142.4	147.4	137.4	127.4	127.4	119.9	112.4
77.5°	99.9	97.5	99.9	102.4	99.9	97.5	92.4	87.4	87.4	84.9	77.4
80°	72.5	69.9	69.9	69.9	67.5	69.9	65.0	65.0	59.9	57.5	52.4
82.5°	47.5	47.5	44.9	47.5	44.9	47.5	40.0	40.0	40.0	37.4	32.5
85°	32.5	27.5	27.5	30.0	25.0	30.0	27.5	25.0	22.5	22.5	19.9
87.5°	15.0	17.5	15.0	17.5	15.0	15.0	17.5	15.0	15.0	10.0	10.0
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°	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2
2.5°	5091.2	5093.7	5093.7	5103.8	5108.7	5111.2	5111.2	5131.2	5123.7	5128.8	5133.7
5°	5018.9	5033.8	5038.8	5038.8	5066.3	5076.2	5086.2	5108.7	5111.2	5126.2	5143.7
7.5°	4948.8	4966.3	4976.4	4998.8	5016.3	5033.8	5063.8	5078.8	5093.7	5113.8	5136.2
10°	4881.4	4901.4	4921.4	4938.9	4966.3	4988.8	5008.8	5043.7	5061.3	5088.8	5118.7
12.5°	4816.5	4843.9	4861.4	4891.4	4921.4	4941.3	4971.4	5003.8	5031.3	5058.8	5093.7
15°	4759.0	4791.5	4811.5	4843.9	4876.4	4903.9	4936.4	4976.4	4996.3	5028.8	5061.3
17.5°	4696.5	4731.6	4756.5	4786.5	4826.5	4856.4	4883.9	4923.8	4948.8	4983.8	5021.3
20°	4631.6	4666.6	4696.5	4726.5	4766.5	4796.4	4828.9	4868.9	4896.4	4931.4	4961.4
22.5°	4554.2	4586.7	4619.1	4654.0	4694.0	4719.0	4756.5	4791.5	4821.4	4853.9	4883.9
25°	4454.2	4494.2	4519.2	4551.6	4584.1	4611.6	4651.6	4686.5	4711.5	4741.5	4769.0
27.5°	4336.8	4366.8	4386.8	4414.2	4446.7	4471.7	4501.6	4536.7	4561.7	4589.1	4609.1
30°	4136.9	4164.5	4182.0	4201.9	4234.4	4256.9	4281.9	4314.3	4331.8	4351.8	4369.3
32.5°	3874.6	3897.1	3907.1	3922.1	3944.6	3967.0	3987.1	4014.6	4022.1	4034.5	4034.5
35°	3495.0	3499.9	3497.4	3502.5	3512.4	3524.9	3542.4	3559.9	3569.8	3569.8	3562.4
37.5°	3050.2	3020.3	2987.8	2962.8	2955.3	2950.3	2960.4	2967.8	2977.9	2982.8	2970.3
40°	2588.1	2520.7	2448.2	2383.2	2338.3	2318.3	2310.8	2315.8	2315.8	2333.2	2333.2
42.5°	2190.9	2085.9	1978.6	1881.1	1816.1	1766.3	1743.7	1743.7	1746.2	1758.7	1766.3
45°	1861.2	1728.7	1603.8	1496.4	1406.5	1341.5	1311.6	1304.0	1301.6	1306.5	1324.0
47.5°	1608.8	1471.4	1341.5	1209.1	1114.2	1049.2	1021.8	1011.7	1001.7	1011.7	1014.3
50°	1411.5	1269.1	1131.7	999.3	899.3	841.8	806.9	791.9	789.4	789.4	794.4
52.5°	1231.6	1099.2	961.8	826.9	721.9	667.0	634.5	627.0	617.1	627.0	627.0
55°	1061.7	929.3	794.4	667.0	579.5	522.2	492.1	482.2	477.1	484.6	484.6
57.5°	876.9	764.4	639.6	524.6	437.2	397.2	374.7	362.3	359.7	364.7	359.7
60°	719.5	624.6	517.1	412.2	344.8	302.3	284.8	279.8	274.8	279.8	279.8
62.5°	569.6	489.7	402.2	322.3	264.8	234.9	214.8	214.8	212.3	212.3	214.8
65°	422.2	359.7	297.3	229.8	184.9	162.4	147.4	147.4	144.9	147.4	144.9
67.5°	307.2	264.8	214.8	167.4	132.4	119.9	109.9	102.4	107.5	102.4	99.9
70°	224.9	189.8	154.9	127.4	102.4	90.0	82.5	79.9	75.0	75.0	75.0
72.5°	149.9	127.4	104.9	82.5	67.5	54.9	52.4	47.5	42.5	44.9	50.0
75°	99.9	84.9	75.0	59.9	44.9	44.9	30.0	30.0	25.0	30.0	22.5
77.5°	69.9	57.5	44.9	37.4	30.0	27.5	19.9	19.9	17.5	17.5	17.5
80°	50.0	42.5	32.5	27.5	19.9	19.9	17.5	15.0	12.4	12.4	15.0
82.5°	30.0	22.5	22.5	19.9	12.4	10.0	7.5	10.0	5.0	5.0	5.0
85°	17.5	15.0	12.4	7.5	5.0	5.0	2.5	0.0	2.5	2.5	0.0
87.5°	10.0	5.0	5.0	2.5	0.0	2.5	2.5	0.0	0.0	0.0	5.0
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°	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2
2.5°	5146.3	5143.7	5148.7	5148.7	5163.7	5161.2	5168.7	5168.7	5163.7	5166.2	5176.2
5°	5163.7	5171.2	5186.2	5198.7	5221.1	5231.2	5243.6	5256.2	5258.6	5266.2	5273.7
7.5°	5163.7	5188.7	5206.2	5228.6	5258.6	5276.1	5303.6	5326.1	5336.1	5348.5	5363.5
10°	5153.7	5178.6	5211.1	5236.1	5273.7	5301.1	5328.6	5363.5	5378.5	5398.5	5418.5
12.5°	5133.7	5161.2	5196.1	5228.6	5271.1	5296.1	5331.0	5363.5	5386.1	5413.5	5436.0
15°	5103.8	5136.2	5168.7	5201.2	5246.1	5276.1	5308.6	5346.1	5368.6	5398.5	5418.5
17.5°	5056.3	5091.2	5121.3	5151.2	5193.7	5228.6	5258.6	5293.6	5316.1	5341.1	5368.6
20°	4998.8	5031.3	5063.8	5088.8	5131.2	5161.2	5193.7	5226.2	5243.6	5248.7	5291.1
22.5°	4926.4	4948.8	4973.8	5013.8	5038.8	5066.3	5096.3	5126.2	5143.7	5171.2	5186.2
25°	4806.4	4828.9	4856.4	4873.9	4903.9	4926.4	4956.3	4988.8	4998.8	5018.9	5033.8
27.5°	4639.1	4651.6	4664.1	4679.0	4696.5	4709.0	4726.5	4741.5	4751.5	4761.5	4771.5
30°	4374.2	4374.2	4374.2	4364.3	4371.8	4379.3	4381.7	4379.3	4379.3	4376.8	4376.8
32.5°	4024.5	4004.6	3982.1	3962.1	3954.6	3944.6	3939.6	3932.1	3919.6	3912.1	3914.6
35°	3552.3	3507.4	3480.0	3455.0	3435.0	3420.0	3412.5	3405.0	3402.5	3392.6	3382.5
37.5°	2962.8	2930.3	2910.4	2895.4	2877.9	2862.9	2865.4	2867.9	2875.3	2870.4	2872.9
40°	2338.3	2330.8	2338.3	2320.8	2315.8	2320.8	2333.2	2350.8	2360.8	2370.8	2388.2
42.5°	1778.7	1791.1	1808.7	1808.7	1816.1	1826.2	1841.1	1868.7	1883.6	1901.1	1921.1
45°	1339.0	1354.0	1376.5	1383.9	1389.0	1401.4	1419.0	1441.4	1451.4	1466.4	1483.9
47.5°	1031.8	1041.7	1054.2	1066.7	1079.2	1084.2	1101.7	1101.7	1114.2	1124.2	1129.1
50°	804.4	814.4	824.4	831.9	836.9	844.4	849.3	856.9	859.3	864.4	866.8
52.5°	629.5	642.0	642.0	647.0	654.5	662.0	659.5	662.0	664.5	664.5	672.0
55°	492.1	492.1	499.6	499.6	504.7	502.1	504.7	504.7	504.7	504.7	507.1
57.5°	367.2	369.8	377.3	372.2	369.8	374.7	369.8	374.7	372.2	377.3	369.8
60°	282.3	282.3	284.8	284.8	287.3	287.3	287.3	284.8	284.8	282.3	282.3
62.5°	212.3	214.8	217.4	214.8	214.8	214.8	212.3	212.3	209.9	207.3	207.3
65°	142.4	139.9	144.9	139.9	142.4	142.4	139.9	142.4	134.9	137.4	134.9
67.5°	102.4	99.9	97.5	99.9	97.5	94.9	94.9	97.5	99.9	92.4	92.4
70°	67.5	69.9	67.5	69.9	72.5	72.5	69.9	67.5	69.9	65.0	67.5
72.5°	42.5	42.5	42.5	42.5	42.5	44.9	44.9	44.9	40.0	40.0	37.4
75°	19.9	27.5	22.5	19.9	27.5	27.5	25.0	25.0	22.5	22.5	22.5
77.5°	19.9	15.0	15.0	15.0	15.0	15.0	15.0	15.0	12.4	15.0	12.4
80°	10.0	10.0	10.0	7.5	10.0	10.0	12.4	10.0	10.0	7.5	12.4
82.5°	5.0	5.0	5.0	0.0	2.5	5.0	5.0	2.5	5.0	5.0	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: P248734

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2
2.5°	5173.7	5171.2	5173.7	5176.2	5173.7	5171.2	5173.7	5176.2	5166.2	5163.7	5168.7
5°	5283.6	5283.6	5288.6	5291.1	5288.6	5283.6	5283.6	5273.7	5266.2	5258.6	5256.2
7.5°	5378.5	5383.6	5388.5	5391.0	5388.5	5383.6	5378.5	5363.5	5348.5	5336.1	5326.1
10°	5436.0	5443.5	5453.5	5458.4	5453.5	5443.5	5436.0	5418.5	5398.5	5378.5	5363.5
12.5°	5461.0	5468.5	5481.0	5478.5	5481.0	5468.5	5461.0	5436.0	5413.5	5386.1	5363.5
15°	5443.5	5453.5	5465.9	5471.0	5465.9	5453.5	5443.5	5418.5	5398.5	5368.6	5346.1
17.5°	5388.5	5403.5	5411.0	5418.5	5411.0	5403.5	5388.5	5368.6	5341.1	5316.1	5293.6
20°	5313.6	5323.6	5333.6	5336.1	5333.6	5323.6	5313.6	5291.1	5248.7	5243.6	5226.2
22.5°	5206.2	5213.7	5236.1	5228.6	5236.1	5213.7	5206.2	5186.2	5171.2	5143.7	5126.2
25°	5051.2	5058.8	5061.3	5063.8	5061.3	5058.8	5051.2	5033.8	5018.9	4998.8	4988.8
27.5°	4784.0	4784.0	4788.9	4791.5	4788.9	4784.0	4784.0	4771.5	4761.5	4751.5	4741.5
30°	4379.3	4379.3	4379.3	4391.8	4379.3	4379.3	4379.3	4376.8	4376.8	4379.3	4379.3
32.5°	3912.1	3907.1	3902.2	3907.1	3902.2	3907.1	3912.1	3914.6	3912.1	3919.6	3932.1
35°	3382.5	3380.0	3387.5	3377.5	3387.5	3380.0	3382.5	3382.5	3392.6	3402.5	3405.0
37.5°	2875.3	2870.4	2880.4	2870.4	2880.4	2870.4	2875.3	2872.9	2870.4	2875.3	2867.9
40°	2393.3	2398.2	2398.2	2418.3	2398.2	2398.2	2393.3	2388.2	2370.8	2360.8	2350.8
42.5°	1931.1	1946.1	1941.1	1956.1	1941.1	1946.1	1931.1	1921.1	1901.1	1883.6	1868.7
45°	1493.9	1503.9	1503.9	1508.9	1503.9	1503.9	1493.9	1483.9	1466.4	1451.4	1441.4
47.5°	1146.6	1146.6	1146.6	1149.2	1146.6	1146.6	1146.6	1129.1	1124.2	1114.2	1101.7
50°	871.9	874.3	876.9	879.4	876.9	874.3	871.9	866.8	864.4	859.3	856.9
52.5°	669.5	672.0	667.0	672.0	667.0	672.0	669.5	672.0	664.5	664.5	662.0
55°	507.1	504.7	507.1	509.6	507.1	504.7	507.1	507.1	504.7	504.7	504.7
57.5°	372.2	367.2	367.2	367.2	367.2	367.2	372.2	369.8	377.3	372.2	374.7
60°	277.3	279.8	279.8	282.3	279.8	279.8	277.3	282.3	282.3	284.8	284.8
62.5°	204.8	212.3	207.3	212.3	207.3	212.3	204.8	207.3	207.3	209.9	212.3
65°	132.4	132.4	132.4	134.9	132.4	132.4	132.4	134.9	137.4	134.9	142.4
67.5°	90.0	92.4	97.5	94.9	97.5	92.4	90.0	92.4	92.4	99.9	97.5
70°	72.5	65.0	65.0	72.5	65.0	65.0	72.5	67.5	65.0	69.9	67.5
72.5°	42.5	37.4	42.5	42.5	42.5	37.4	42.5	37.4	40.0	40.0	44.9
75°	22.5	19.9	17.5	25.0	17.5	19.9	22.5	22.5	22.5	22.5	25.0
77.5°	15.0	12.4	17.5	17.5	17.5	12.4	15.0	12.4	15.0	12.4	15.0
80°	7.5	10.0	7.5	12.4	7.5	10.0	7.5	12.4	7.5	10.0	10.0
82.5°	2.5	5.0	5.0	5.0	5.0	5.0	2.5	2.5	5.0	5.0	2.5
85°	0.0	5.0	2.5	2.5	2.5	5.0	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: P248734

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2
2.5°	5168.7	5161.2	5163.7	5148.7	5148.7	5143.7	5146.3	5133.7	5128.8	5123.7	5131.2
5°	5243.6	5231.2	5221.1	5198.7	5186.2	5171.2	5163.7	5143.7	5126.2	5111.2	5108.7
7.5°	5303.6	5276.1	5258.6	5228.6	5206.2	5188.7	5163.7	5136.2	5113.8	5093.7	5078.8
10°	5328.6	5301.1	5273.7	5236.1	5211.1	5178.6	5153.7	5118.7	5088.8	5061.3	5043.7
12.5°	5331.0	5296.1	5271.1	5228.6	5196.1	5161.2	5133.7	5093.7	5058.8	5031.3	5003.8
15°	5308.6	5276.1	5246.1	5201.2	5168.7	5136.2	5103.8	5061.3	5028.8	4996.3	4976.4
17.5°	5258.6	5228.6	5193.7	5151.2	5121.3	5091.2	5056.3	5021.3	4983.8	4948.8	4923.8
20°	5193.7	5161.2	5131.2	5088.8	5063.8	5031.3	4998.8	4961.4	4931.4	4896.4	4868.9
22.5°	5096.3	5066.3	5038.8	5013.8	4973.8	4948.8	4926.4	4883.9	4853.9	4821.4	4791.5
25°	4956.3	4926.4	4903.9	4873.9	4856.4	4828.9	4806.4	4769.0	4741.5	4711.5	4686.5
27.5°	4726.5	4709.0	4696.5	4679.0	4664.1	4651.6	4639.1	4609.1	4589.1	4561.7	4536.7
30°	4381.7	4379.3	4371.8	4364.3	4374.2	4374.2	4374.2	4369.3	4351.8	4331.8	4314.3
32.5°	3939.6	3944.6	3954.6	3962.1	3982.1	4004.6	4024.5	4034.5	4034.5	4022.1	4014.6
35°	3412.5	3420.0	3435.0	3455.0	3480.0	3507.4	3552.3	3562.4	3569.8	3569.8	3559.9
37.5°	2865.4	2862.9	2877.9	2895.4	2910.4	2930.3	2962.8	2970.3	2982.8	2977.9	2967.8
40°	2333.2	2320.8	2315.8	2320.8	2338.3	2330.8	2338.3	2333.2	2333.2	2315.8	2315.8
42.5°	1841.1	1826.2	1816.1	1808.7	1808.7	1791.1	1778.7	1766.3	1758.7	1746.2	1743.7
45°	1419.0	1401.4	1389.0	1383.9	1376.5	1354.0	1339.0	1324.0	1306.5	1301.6	1304.0
47.5°	1101.7	1084.2	1079.2	1066.7	1054.2	1041.7	1031.8	1014.3	1011.7	1001.7	1011.7
50°	849.3	844.4	836.9	831.9	824.4	814.4	804.4	794.4	789.4	789.4	791.9
52.5°	659.5	662.0	654.5	647.0	642.0	642.0	629.5	627.0	627.0	617.1	627.0
55°	504.7	502.1	504.7	499.6	499.6	492.1	492.1	484.6	484.6	477.1	482.2
57.5°	369.8	374.7	369.8	372.2	377.3	369.8	367.2	359.7	364.7	359.7	362.3
60°	287.3	287.3	287.3	284.8	284.8	282.3	282.3	279.8	279.8	274.8	279.8
62.5°	212.3	214.8	214.8	214.8	217.4	214.8	212.3	214.8	212.3	212.3	214.8
65°	139.9	142.4	142.4	139.9	144.9	139.9	142.4	144.9	147.4	144.9	147.4
67.5°	94.9	94.9	97.5	99.9	97.5	99.9	102.4	99.9	102.4	107.5	102.4
70°	69.9	72.5	72.5	69.9	67.5	69.9	67.5	75.0	75.0	75.0	79.9
72.5°	44.9	44.9	42.5	42.5	42.5	42.5	42.5	50.0	44.9	42.5	47.5
75°	25.0	27.5	27.5	19.9	22.5	27.5	19.9	22.5	30.0	25.0	30.0
77.5°	15.0	15.0	15.0	15.0	15.0	15.0	19.9	17.5	17.5	17.5	19.9
80°	12.4	10.0	10.0	7.5	10.0	10.0	10.0	15.0	12.4	12.4	15.0
82.5°	5.0	5.0	2.5	0.0	5.0	5.0	5.0	5.0	5.0	5.0	10.0
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	5.0	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: P248734

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2
2.5°	5111.2	5111.2	5108.7	5103.8	5093.7	5093.7	5091.2	5083.7	5078.8	5076.2	5076.2
5°	5086.2	5076.2	5066.3	5038.8	5038.8	5033.8	5018.9	5008.8	5003.8	4991.3	4986.4
7.5°	5063.8	5033.8	5016.3	4998.8	4976.4	4966.3	4948.8	4941.3	4923.8	4911.4	4903.9
10°	5008.8	4988.8	4966.3	4938.9	4921.4	4901.4	4881.4	4866.5	4843.9	4831.4	4821.4
12.5°	4971.4	4941.3	4921.4	4891.4	4861.4	4843.9	4816.5	4799.0	4776.5	4751.5	4736.5
15°	4936.4	4903.9	4876.4	4843.9	4811.5	4791.5	4759.0	4739.1	4706.6	4681.6	4664.1
17.5°	4883.9	4856.4	4826.5	4786.5	4756.5	4731.6	4696.5	4671.6	4641.6	4609.1	4591.6
20°	4828.9	4796.4	4766.5	4726.5	4696.5	4666.6	4631.6	4604.2	4569.1	4539.2	4519.2
22.5°	4756.5	4719.0	4694.0	4654.0	4619.1	4586.7	4554.2	4521.7	4489.2	4464.2	4441.7
25°	4651.6	4611.6	4584.1	4551.6	4519.2	4494.2	4454.2	4434.3	4401.8	4379.3	4356.8
27.5°	4501.6	4471.7	4446.7	4414.2	4386.8	4366.8	4336.8	4316.9	4289.3	4269.4	4251.9
30°	4281.9	4256.9	4234.4	4201.9	4182.0	4164.5	4136.9	4119.4	4099.5	4077.0	4072.0
32.5°	3987.1	3967.0	3944.6	3922.1	3907.1	3897.1	3874.6	3864.6	3844.7	3832.1	3819.7
35°	3542.4	3524.9	3512.4	3502.5	3497.4	3499.9	3495.0	3504.9	3509.9	3507.4	3509.9
37.5°	2960.4	2950.3	2955.3	2962.8	2987.8	3020.3	3050.2	3095.2	3125.2	3155.2	3182.7
40°	2310.8	2318.3	2338.3	2383.2	2448.2	2520.7	2588.1	2673.1	2758.0	2818.0	2872.9
42.5°	1743.7	1766.3	1816.1	1881.1	1978.6	2085.9	2190.9	2315.8	2418.3	2518.1	2588.1
45°	1311.6	1341.5	1406.5	1496.4	1603.8	1728.7	1861.2	2001.0	2123.5	2225.9	2303.3
47.5°	1021.8	1049.2	1114.2	1209.1	1341.5	1471.4	1608.8	1753.7	1881.1	1981.1	2048.5
50°	806.9	841.8	899.3	999.3	1131.7	1269.1	1411.5	1553.8	1673.8	1758.7	1818.7
52.5°	634.5	667.0	721.9	826.9	961.8	1099.2	1231.6	1371.5	1476.4	1558.8	1598.8
55°	492.1	522.2	579.5	667.0	794.4	929.3	1061.7	1181.7	1279.1	1339.0	1376.5
57.5°	374.7	397.2	437.2	524.6	639.6	764.4	876.9	996.8	1071.8	1114.2	1139.1
60°	284.8	302.3	344.8	412.2	517.1	624.6	719.5	809.4	869.4	904.4	929.3
62.5°	214.8	234.9	264.8	322.3	402.2	489.7	569.6	637.0	687.0	709.5	727.0
65°	147.4	162.4	184.9	229.8	297.3	359.7	422.2	472.2	504.7	529.7	539.6
67.5°	109.9	119.9	132.4	167.4	214.8	264.8	307.2	342.2	377.3	387.2	404.7
70°	82.5	90.0	102.4	127.4	154.9	189.8	224.9	244.8	269.8	287.3	292.3
72.5°	52.4	54.9	67.5	82.5	104.9	127.4	149.9	167.4	182.4	192.4	197.3
75°	30.0	44.9	44.9	59.9	75.0	84.9	99.9	112.4	119.9	127.4	127.4
77.5°	19.9	27.5	30.0	37.4	44.9	57.5	69.9	77.4	84.9	87.4	87.4
80°	17.5	19.9	19.9	27.5	32.5	42.5	50.0	52.4	57.5	59.9	65.0
82.5°	7.5	10.0	12.4	19.9	22.5	22.5	30.0	32.5	37.4	40.0	40.0
85°	2.5	5.0	5.0	7.5	12.4	15.0	17.5	19.9	22.5	22.5	25.0
87.5°	2.5	2.5	0.0	2.5	5.0	5.0	10.0	10.0	10.0	15.0	15.0
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: P248734

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2	5116.2
2.5°	5071.3	5073.8	5063.8	5061.3	5056.3	5058.8	5063.8
5°	4978.9	4981.3	4971.4	4961.4	4961.4	4958.8	4961.4
7.5°	4891.4	4893.9	4878.9	4873.9	4863.9	4866.5	4866.5
10°	4803.9	4803.9	4781.5	4779.0	4771.5	4769.0	4769.0
12.5°	4719.0	4711.5	4694.0	4684.1	4689.1	4674.1	4674.1
15°	4644.1	4631.6	4609.1	4601.6	4589.1	4584.1	4584.1
17.5°	4566.6	4556.7	4536.7	4521.7	4506.7	4504.2	4506.7
20°	4491.7	4481.7	4456.7	4446.7	4434.3	4434.3	4429.3
22.5°	4416.7	4406.7	4384.3	4376.8	4359.3	4359.3	4361.8
25°	4339.3	4331.8	4306.8	4301.8	4299.4	4289.3	4294.3
27.5°	4234.4	4229.4	4209.4	4201.9	4191.9	4189.5	4194.4
30°	4042.0	4034.5	4019.6	4012.1	3994.6	3997.1	4002.0
32.5°	3802.2	3792.2	3772.2	3764.7	3749.8	3744.7	3747.2
35°	3502.5	3495.0	3477.5	3477.5	3462.5	3457.4	3462.5
37.5°	3197.7	3205.1	3197.7	3205.1	3197.7	3195.1	3197.7
40°	2910.4	2937.9	2942.8	2970.3	2960.4	2975.3	2972.8
42.5°	2635.5	2680.5	2698.1	2720.5	2715.5	2725.5	2733.0
45°	2358.2	2395.8	2413.2	2428.2	2430.7	2435.8	2438.2
47.5°	2095.9	2125.9	2128.4	2145.9	2143.4	2143.4	2150.9
50°	1851.2	1871.1	1876.1	1888.6	1878.6	1873.6	1876.1
52.5°	1623.8	1643.8	1638.7	1643.8	1631.3	1626.3	1628.8
55°	1391.4	1401.4	1401.4	1401.4	1386.5	1386.5	1386.5
57.5°	1154.1	1156.7	1151.7	1154.1	1151.7	1136.6	1134.2
60°	936.9	936.9	934.3	936.9	929.3	921.8	921.8
62.5°	731.9	737.0	746.9	737.0	731.9	737.0	729.5
65°	547.1	557.1	554.5	559.6	557.1	557.1	552.1
67.5°	412.2	414.7	417.2	419.7	419.7	419.7	419.7
70°	302.3	309.8	307.2	307.2	307.2	307.2	322.3
72.5°	202.4	212.3	209.9	214.8	214.8	219.8	214.8
75°	137.4	147.4	142.4	149.9	147.4	142.4	154.9
77.5°	92.4	97.5	99.9	102.4	99.9	97.5	99.9
80°	65.0	69.9	67.5	69.9	69.9	69.9	72.5
82.5°	40.0	47.5	44.9	47.5	44.9	47.5	47.5
85°	27.5	30.0	25.0	30.0	27.5	27.5	32.5
87.5°	17.5	15.0	15.0	17.5	15.0	17.5	15.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)