

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: P248571

Luminaire Tested: **LD8B80D010 ER8B80840 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248571
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: LD8B80D010 ER8B80840 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8316.0 lumens
Efficiency: N/A
Efficacy: 111.8 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

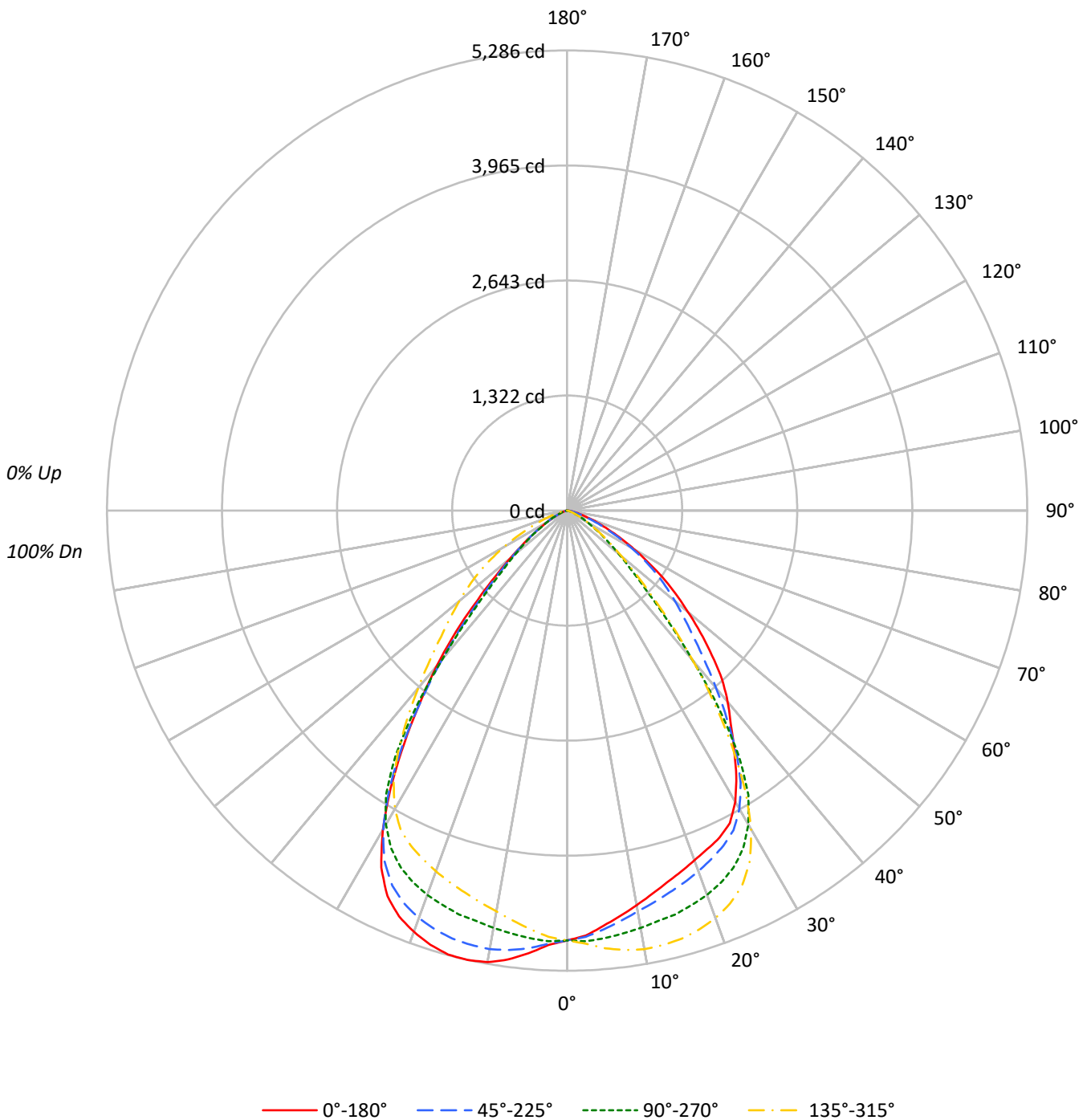
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	152236	152236	152236	152236
5°	148193	152594	158042	152594
10°	144095	152396	164927	152396
15°	141216	153300	168537	153300
20°	140253	154176	168969	154176
25°	140993	153867	166252	153867
30°	137506	148234	150898	148234
35°	125773	129312	122690	129312
40°	115472	89951	93933	89951
45°	102604	54873	63495	54873
50°	86845	36656	40710	36656
55°	71927	25015	26435	25015
60°	54858	16652	16800	16652
65°	38868	10376	9500	10376
70°	28040	6951	6311	6951
75°	17800	3455	2871	3455
80°	12431	2575	2131	2575
85°	11110	0	849	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.9	5.7
10°-20°	1360.8	16.4
20°-30°	2060.5	24.8
30°-40°	2065.1	24.8
40°-50°	1296.8	15.6
50°-60°	691.0	8.3
60°-70°	284.2	3.4
70°-80°	75.1	0.9
80°-90°	12.7	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°	3891.1	46.8
0°-40°	5956.2	71.6
0°-60°	7944.1	95.5
0°-90°	8316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8316.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4937	4937	4937	4937	4937	
5°	4788	4930	5106	4930	4788	451
15°	4424	4802	5279	4802	4424	1251
25°	4144	4522	4886	4522	4144	1901
35°	3341	3435	3259	3435	3341	2093
45°	2353	1258	1456	1258	2353	1809
55°	1338	465	492	465	1338	1193
65°	533	142	130	142	533	553
75°	149	29	24	29	149	169
85°	31	0	2	0	31	34
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°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4886.3	4881.5	4879.1	4884.0	4886.3	4896.0	4893.6	4898.3	4898.3	4900.8	4905.6
5°	4787.5	4785.0	4787.5	4787.5	4797.1	4806.8	4804.4	4811.6	4816.4	4828.5	4833.3
7.5°	4695.9	4695.9	4693.5	4703.1	4707.9	4722.4	4719.9	4732.1	4739.3	4751.3	4768.2
10°	4601.9	4601.9	4604.3	4611.5	4614.0	4635.6	4635.6	4652.5	4662.1	4674.2	4695.9
12.5°	4510.3	4510.3	4524.8	4519.9	4529.5	4546.4	4553.6	4570.5	4585.0	4609.1	4630.8
15°	4423.5	4423.5	4428.3	4440.3	4447.6	4469.3	4481.3	4500.7	4517.5	4541.6	4573.0
17.5°	4348.8	4346.4	4348.8	4363.2	4377.7	4397.0	4406.6	4430.7	4447.6	4478.9	4507.9
20°	4274.0	4278.9	4278.9	4290.9	4300.5	4324.6	4334.3	4360.9	4380.1	4409.0	4442.8
22.5°	4208.9	4206.6	4206.6	4223.4	4230.7	4252.3	4261.9	4286.0	4307.8	4331.9	4363.2
25°	4143.9	4139.0	4148.7	4151.1	4155.9	4180.0	4187.2	4204.1	4225.8	4247.5	4278.9
27.5°	4047.4	4042.6	4045.0	4054.7	4061.9	4081.1	4086.0	4102.9	4119.7	4139.0	4165.6
30°	3861.8	3857.0	3854.6	3871.5	3878.7	3893.1	3900.4	3929.3	3934.1	3955.8	3975.1
32.5°	3615.9	3613.5	3618.4	3632.8	3640.0	3659.3	3669.0	3685.8	3697.8	3710.0	3729.2
35°	3341.1	3336.3	3341.1	3355.6	3355.6	3372.5	3379.7	3386.9	3384.5	3386.9	3382.1
37.5°	3085.6	3083.2	3085.6	3092.8	3085.6	3092.8	3085.6	3071.2	3044.7	3015.7	2986.7
40°	2868.6	2871.0	2856.6	2866.3	2839.7	2834.9	2808.4	2772.2	2719.2	2661.4	2579.4
42.5°	2637.3	2630.0	2620.4	2625.1	2603.5	2586.5	2543.2	2497.4	2429.9	2333.5	2234.6
45°	2352.8	2350.4	2345.5	2343.2	2328.7	2311.8	2275.6	2222.6	2147.9	2049.1	1930.9
47.5°	2075.5	2068.3	2068.3	2070.7	2053.8	2051.4	2022.5	1976.7	1911.6	1815.2	1692.3
50°	1810.3	1807.9	1812.8	1822.4	1810.3	1805.6	1786.3	1755.0	1697.1	1615.2	1499.4
52.5°	1571.7	1569.3	1574.2	1586.2	1581.3	1586.2	1566.9	1542.8	1504.2	1424.6	1323.4
55°	1337.9	1337.9	1337.9	1352.3	1352.3	1352.3	1342.7	1328.3	1292.1	1234.2	1140.3
57.5°	1094.4	1096.8	1111.3	1113.7	1111.3	1116.2	1113.7	1099.2	1075.2	1034.2	961.9
60°	889.5	889.5	896.8	904.0	901.5	904.0	904.0	896.8	872.7	838.9	781.1
62.5°	703.9	711.1	706.3	711.1	720.8	711.1	706.3	701.5	684.6	662.9	614.7
65°	532.7	537.6	537.6	540.0	535.1	537.6	528.0	520.7	511.1	487.0	455.6
67.5°	405.0	405.0	405.0	405.0	402.5	400.2	397.8	390.5	373.7	364.0	330.2
70°	311.0	296.5	296.5	296.5	296.5	299.0	291.7	282.1	277.2	260.4	236.3
72.5°	207.3	212.1	207.3	207.3	202.5	204.9	195.3	190.4	185.6	176.0	161.5
75°	149.4	137.4	142.2	144.7	137.4	142.2	132.6	122.9	122.9	115.7	108.5
77.5°	96.4	94.1	96.4	98.8	96.4	94.1	89.2	84.3	84.3	82.0	74.7
80°	70.0	67.5	67.5	67.5	65.1	67.5	62.7	62.7	57.8	55.5	50.6
82.5°	45.8	45.8	43.4	45.8	43.4	45.8	38.6	38.6	38.6	36.1	31.4
85°	31.4	26.5	26.5	29.0	24.1	29.0	26.5	24.1	21.7	21.7	19.2
87.5°	14.5	16.9	14.5	16.9	14.5	14.5	16.9	14.5	14.5	9.6	9.6
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°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4912.8	4915.2	4915.2	4924.9	4929.7	4932.1	4932.1	4951.4	4944.2	4949.1	4953.8
5°	4843.0	4857.4	4862.2	4862.2	4888.7	4898.3	4908.0	4929.7	4932.1	4946.6	4963.4
7.5°	4775.4	4792.3	4802.0	4823.6	4840.5	4857.4	4886.3	4900.8	4915.2	4934.6	4956.2
10°	4710.3	4729.7	4748.9	4765.8	4792.3	4814.0	4833.3	4867.0	4884.0	4910.5	4939.3
12.5°	4647.7	4674.2	4691.1	4719.9	4748.9	4768.2	4797.1	4828.5	4855.0	4881.5	4915.2
15°	4592.2	4623.6	4642.8	4674.2	4705.6	4732.1	4763.4	4802.0	4821.3	4852.6	4884.0
17.5°	4531.9	4565.8	4589.9	4618.7	4657.3	4686.2	4712.8	4751.3	4775.4	4809.1	4845.4
20°	4469.3	4503.0	4531.9	4560.9	4599.5	4628.4	4659.7	4698.3	4724.8	4758.5	4787.5
22.5°	4394.6	4425.9	4457.2	4490.9	4529.5	4553.6	4589.9	4623.6	4652.5	4683.8	4712.8
25°	4298.1	4336.7	4360.9	4392.1	4423.5	4450.0	4488.6	4522.3	4546.4	4575.4	4601.9
27.5°	4184.8	4213.8	4233.1	4259.5	4290.9	4315.0	4343.9	4377.7	4401.8	4428.3	4447.6
30°	3991.9	4018.5	4035.4	4054.7	4086.0	4107.7	4131.8	4163.1	4180.0	4199.3	4216.2
32.5°	3738.8	3760.6	3770.2	3784.7	3806.4	3828.0	3847.4	3873.9	3881.1	3893.1	3893.1
35°	3372.5	3377.3	3374.9	3379.7	3389.4	3401.4	3418.2	3435.1	3444.7	3444.7	3437.6
37.5°	2943.4	2914.5	2883.1	2859.0	2851.8	2846.9	2856.6	2863.8	2873.5	2878.3	2866.3
40°	2497.4	2432.4	2362.4	2299.7	2256.3	2237.1	2229.8	2234.6	2234.6	2251.5	2251.5
42.5°	2114.1	2012.8	1909.3	1815.2	1752.5	1704.4	1682.6	1682.6	1685.0	1697.1	1704.4
45°	1795.9	1668.1	1547.6	1444.0	1357.2	1294.5	1265.6	1258.3	1256.0	1260.7	1277.6
47.5°	1552.4	1419.9	1294.5	1166.8	1075.2	1012.5	986.0	976.3	966.6	976.3	978.7
50°	1362.0	1224.6	1092.0	964.3	867.8	812.3	778.6	764.1	761.7	761.7	766.6
52.5°	1188.4	1060.7	928.1	798.0	696.6	643.7	612.3	605.1	595.4	605.1	605.1
55°	1024.5	896.8	766.6	643.7	559.2	503.9	474.9	465.3	460.4	467.6	467.6
57.5°	846.2	737.6	617.2	506.2	421.9	383.3	361.6	349.6	347.1	351.9	347.1
60°	694.3	602.7	499.0	397.8	332.7	291.7	274.8	270.0	265.1	270.0	270.0
62.5°	549.6	472.5	388.1	311.0	255.5	226.6	207.3	207.3	204.9	204.9	207.3
65°	407.4	347.1	286.9	221.8	178.4	156.7	142.2	142.2	139.8	142.2	139.8
67.5°	296.5	255.5	207.3	161.5	127.8	115.7	106.1	98.8	103.7	98.8	96.4
70°	217.0	183.2	149.4	122.9	98.8	86.8	79.6	77.1	72.3	72.3	72.3
72.5°	144.7	122.9	101.2	79.6	65.1	53.0	50.6	45.8	41.0	43.4	48.2
75°	96.4	82.0	72.3	57.8	43.4	43.4	29.0	29.0	24.1	29.0	21.7
77.5°	67.5	55.5	43.4	36.1	29.0	26.5	19.2	19.2	16.9	16.9	16.9
80°	48.2	41.0	31.4	26.5	19.2	19.2	16.9	14.5	12.0	12.0	14.5
82.5°	29.0	21.7	21.7	19.2	12.0	9.6	7.2	9.6	4.9	4.9	4.9
85°	16.9	14.5	12.0	7.2	4.9	4.9	2.4	0.0	2.4	2.4	0.0
87.5°	9.6	4.9	4.9	2.4	0.0	2.4	2.4	0.0	0.0	0.0	4.9
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°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4965.9	4963.4	4968.3	4968.3	4982.8	4980.3	4987.5	4987.5	4982.8	4985.2	4994.8
5°	4982.8	4990.0	5004.4	5016.5	5038.2	5047.9	5059.9	5072.0	5074.4	5081.6	5088.9
7.5°	4982.8	5006.9	5023.8	5045.4	5074.4	5091.2	5117.7	5139.5	5149.1	5161.1	5175.6
10°	4973.1	4997.2	5028.5	5052.6	5088.9	5115.3	5141.8	5175.6	5190.1	5209.3	5228.7
12.5°	4953.8	4980.3	5014.0	5045.4	5086.4	5110.5	5144.2	5175.6	5197.3	5223.8	5245.5
15°	4924.9	4956.2	4987.5	5018.9	5062.3	5091.2	5122.6	5158.7	5180.4	5209.3	5228.7
17.5°	4879.1	4912.8	4941.8	4970.7	5011.7	5045.4	5074.4	5108.1	5129.8	5153.9	5180.4
20°	4823.6	4855.0	4886.3	4910.5	4951.4	4980.3	5011.7	5043.0	5059.9	5064.7	5105.7
22.5°	4753.8	4775.4	4799.5	4838.1	4862.2	4888.7	4917.7	4946.6	4963.4	4990.0	5004.4
25°	4638.0	4659.7	4686.2	4703.1	4732.1	4753.8	4782.7	4814.0	4823.6	4843.0	4857.4
27.5°	4476.6	4488.6	4500.7	4515.0	4531.9	4544.0	4560.9	4575.4	4585.0	4594.6	4604.3
30°	4221.0	4221.0	4221.0	4211.3	4218.6	4225.8	4228.2	4225.8	4225.8	4223.4	4223.4
32.5°	3883.5	3864.2	3842.5	3823.3	3816.0	3806.4	3801.5	3794.3	3782.3	3775.0	3777.4
35°	3427.9	3384.5	3358.0	3333.9	3314.6	3300.2	3292.9	3285.7	3283.3	3273.7	3263.9
37.5°	2859.0	2827.7	2808.4	2793.9	2777.1	2762.6	2765.0	2767.4	2774.6	2769.8	2772.2
40°	2256.3	2249.1	2256.3	2239.5	2234.6	2239.5	2251.5	2268.4	2278.1	2287.7	2304.6
42.5°	1716.4	1728.4	1745.3	1745.3	1752.5	1762.2	1776.6	1803.2	1817.6	1834.4	1853.8
45°	1292.1	1306.6	1328.3	1335.4	1340.3	1352.3	1369.3	1390.9	1400.5	1415.0	1431.9
47.5°	995.6	1005.2	1017.2	1029.3	1041.3	1046.2	1063.1	1063.1	1075.2	1084.8	1089.6
50°	776.2	785.8	795.5	802.7	807.6	814.8	819.6	826.8	829.2	834.1	836.5
52.5°	607.4	619.5	619.5	624.3	631.6	638.8	636.4	638.8	641.2	641.2	648.4
55°	474.9	474.9	482.1	482.1	487.0	484.5	487.0	487.0	487.0	487.0	489.4
57.5°	354.3	356.8	364.0	359.2	356.8	361.6	356.8	361.6	359.2	364.0	356.8
60°	272.4	272.4	274.8	274.8	277.2	277.2	277.2	274.8	274.8	272.4	272.4
62.5°	204.9	207.3	209.8	207.3	207.3	207.3	204.9	204.9	202.5	200.0	200.0
65°	137.4	135.0	139.8	135.0	137.4	137.4	135.0	137.4	130.2	132.6	130.2
67.5°	98.8	96.4	94.1	96.4	94.1	91.6	91.6	94.1	96.4	89.2	89.2
70°	65.1	67.5	65.1	67.5	70.0	70.0	67.5	65.1	67.5	62.7	65.1
72.5°	41.0	41.0	41.0	41.0	41.0	43.4	43.4	43.4	38.6	38.6	36.1
75°	19.2	26.5	21.7	19.2	26.5	26.5	24.1	24.1	21.7	21.7	21.7
77.5°	19.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5	12.0	14.5	12.0
80°	9.6	9.6	9.6	7.2	9.6	9.6	12.0	9.6	9.6	7.2	12.0
82.5°	4.9	4.9	4.9	0.0	2.4	4.9	4.9	2.4	4.9	4.9	2.4
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: P248571

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSWOH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4992.4	4990.0	4992.4	4994.8	4992.4	4990.0	4992.4	4994.8	4985.2	4982.8	4987.5
5°	5098.5	5098.5	5103.2	5105.7	5103.2	5098.5	5098.5	5088.9	5081.6	5074.4	5072.0
7.5°	5190.1	5194.9	5199.7	5202.1	5199.7	5194.9	5190.1	5175.6	5161.1	5149.1	5139.5
10°	5245.5	5252.8	5262.4	5267.2	5262.4	5252.8	5245.5	5228.7	5209.3	5190.1	5175.6
12.5°	5269.6	5276.9	5288.9	5286.5	5288.9	5276.9	5269.6	5245.5	5223.8	5197.3	5175.6
15°	5252.8	5262.4	5274.4	5279.3	5274.4	5262.4	5252.8	5228.7	5209.3	5180.4	5158.7
17.5°	5199.7	5214.2	5221.4	5228.7	5221.4	5214.2	5199.7	5180.4	5153.9	5129.8	5108.1
20°	5127.4	5137.1	5146.7	5149.1	5146.7	5137.1	5127.4	5105.7	5064.7	5059.9	5043.0
22.5°	5023.8	5031.0	5052.6	5045.4	5052.6	5031.0	5023.8	5004.4	4990.0	4963.4	4946.6
25°	4874.2	4881.5	4884.0	4886.3	4884.0	4881.5	4874.2	4857.4	4843.0	4823.6	4814.0
27.5°	4616.4	4616.4	4621.1	4623.6	4621.1	4616.4	4616.4	4604.3	4594.6	4585.0	4575.4
30°	4225.8	4225.8	4225.8	4237.9	4225.8	4225.8	4225.8	4223.4	4223.4	4225.8	4225.8
32.5°	3775.0	3770.2	3765.4	3770.2	3765.4	3770.2	3775.0	3777.4	3775.0	3782.3	3794.3
35°	3263.9	3261.6	3268.8	3259.2	3268.8	3261.6	3263.9	3263.9	3273.7	3283.3	3285.7
37.5°	2774.6	2769.8	2779.4	2769.8	2779.4	2769.8	2774.6	2772.2	2769.8	2774.6	2767.4
40°	2309.4	2314.2	2314.2	2333.5	2314.2	2314.2	2309.4	2304.6	2287.7	2278.1	2268.4
42.5°	1863.4	1877.9	1873.0	1887.5	1873.0	1877.9	1863.4	1853.8	1834.4	1817.6	1803.2
45°	1441.5	1451.2	1451.2	1456.0	1451.2	1451.2	1441.5	1431.9	1415.0	1400.5	1390.9
47.5°	1106.4	1106.4	1106.4	1108.9	1106.4	1106.4	1106.4	1089.6	1084.8	1075.2	1063.1
50°	841.3	843.7	846.2	848.6	846.2	843.7	841.3	836.5	834.1	829.2	826.8
52.5°	646.0	648.4	643.7	648.4	643.7	648.4	646.0	648.4	641.2	641.2	638.8
55°	489.4	487.0	489.4	491.7	489.4	487.0	489.4	489.4	487.0	487.0	487.0
57.5°	359.2	354.3	354.3	354.3	354.3	354.3	359.2	356.8	364.0	359.2	361.6
60°	267.6	270.0	270.0	272.4	270.0	270.0	267.6	272.4	272.4	274.8	274.8
62.5°	197.7	204.9	200.0	204.9	200.0	204.9	197.7	200.0	200.0	202.5	204.9
65°	127.8	127.8	127.8	130.2	127.8	127.8	127.8	130.2	132.6	130.2	137.4
67.5°	86.8	89.2	94.1	91.6	94.1	89.2	86.8	89.2	89.2	96.4	94.1
70°	70.0	62.7	62.7	70.0	62.7	62.7	70.0	65.1	62.7	67.5	65.1
72.5°	41.0	36.1	41.0	41.0	41.0	36.1	41.0	36.1	38.6	38.6	43.4
75°	21.7	19.2	16.9	24.1	16.9	19.2	21.7	21.7	21.7	21.7	24.1
77.5°	14.5	12.0	16.9	16.9	16.9	12.0	14.5	12.0	14.5	12.0	14.5
80°	7.2	9.6	7.2	12.0	7.2	9.6	7.2	12.0	7.2	9.6	9.6
82.5°	2.4	4.9	4.9	4.9	4.9	4.9	2.4	2.4	4.9	4.9	2.4
85°	0.0	4.9	2.4	2.4	2.4	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.0	0.0	2.4	0.0	0.0	2.4	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: P248571

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4987.5	4980.3	4982.8	4968.3	4968.3	4963.4	4965.9	4953.8	4949.1	4944.2	4951.4
5°	5059.9	5047.9	5038.2	5016.5	5004.4	4990.0	4982.8	4963.4	4946.6	4932.1	4929.7
7.5°	5117.7	5091.2	5074.4	5045.4	5023.8	5006.9	4982.8	4956.2	4934.6	4915.2	4900.8
10°	5141.8	5115.3	5088.9	5052.6	5028.5	4997.2	4973.1	4939.3	4910.5	4884.0	4867.0
12.5°	5144.2	5110.5	5086.4	5045.4	5014.0	4980.3	4953.8	4915.2	4881.5	4855.0	4828.5
15°	5122.6	5091.2	5062.3	5018.9	4987.5	4956.2	4924.9	4884.0	4852.6	4821.3	4802.0
17.5°	5074.4	5045.4	5011.7	4970.7	4941.8	4912.8	4879.1	4845.4	4809.1	4775.4	4751.3
20°	5011.7	4980.3	4951.4	4910.5	4886.3	4855.0	4823.6	4787.5	4758.5	4724.8	4698.3
22.5°	4917.7	4888.7	4862.2	4838.1	4799.5	4775.4	4753.8	4712.8	4683.8	4652.5	4623.6
25°	4782.7	4753.8	4732.1	4703.1	4686.2	4659.7	4638.0	4601.9	4575.4	4546.4	4522.3
27.5°	4560.9	4544.0	4531.9	4515.0	4500.7	4488.6	4476.6	4447.6	4428.3	4401.8	4377.7
30°	4228.2	4225.8	4218.6	4211.3	4221.0	4221.0	4221.0	4216.2	4199.3	4180.0	4163.1
32.5°	3801.5	3806.4	3816.0	3823.3	3842.5	3864.2	3883.5	3893.1	3893.1	3881.1	3873.9
35°	3292.9	3300.2	3314.6	3333.9	3358.0	3384.5	3427.9	3437.6	3444.7	3444.7	3435.1
37.5°	2765.0	2762.6	2777.1	2793.9	2808.4	2827.7	2859.0	2866.3	2878.3	2873.5	2863.8
40°	2251.5	2239.5	2234.6	2239.5	2256.3	2249.1	2256.3	2251.5	2251.5	2234.6	2234.6
42.5°	1776.6	1762.2	1752.5	1745.3	1745.3	1728.4	1716.4	1704.4	1697.1	1685.0	1682.6
45°	1369.3	1352.3	1340.3	1335.4	1328.3	1306.6	1292.1	1277.6	1260.7	1256.0	1258.3
47.5°	1063.1	1046.2	1041.3	1029.3	1017.2	1005.2	995.6	978.7	976.3	966.6	976.3
50°	819.6	814.8	807.6	802.7	795.5	785.8	776.2	766.6	761.7	761.7	764.1
52.5°	636.4	638.8	631.6	624.3	619.5	619.5	607.4	605.1	605.1	595.4	605.1
55°	487.0	484.5	487.0	482.1	482.1	474.9	474.9	467.6	467.6	460.4	465.3
57.5°	356.8	361.6	356.8	359.2	364.0	356.8	354.3	347.1	351.9	347.1	349.6
60°	277.2	277.2	277.2	274.8	274.8	272.4	272.4	270.0	270.0	265.1	270.0
62.5°	204.9	207.3	207.3	207.3	209.8	207.3	204.9	207.3	204.9	204.9	207.3
65°	135.0	137.4	137.4	135.0	139.8	135.0	137.4	139.8	142.2	139.8	142.2
67.5°	91.6	91.6	94.1	96.4	94.1	96.4	98.8	96.4	98.8	103.7	98.8
70°	67.5	70.0	70.0	67.5	65.1	67.5	65.1	72.3	72.3	72.3	77.1
72.5°	43.4	43.4	41.0	41.0	41.0	41.0	41.0	48.2	43.4	41.0	45.8
75°	24.1	26.5	26.5	19.2	21.7	26.5	19.2	21.7	29.0	24.1	29.0
77.5°	14.5	14.5	14.5	14.5	14.5	14.5	19.2	16.9	16.9	16.9	19.2
80°	12.0	9.6	9.6	7.2	9.6	9.6	9.6	14.5	12.0	12.0	14.5
82.5°	4.9	4.9	2.4	0.0	4.9	4.9	4.9	4.9	4.9	4.9	9.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	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: P248571

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4932.1	4932.1	4929.7	4924.9	4915.2	4915.2	4912.8	4905.6	4900.8	4898.3	4898.3
5°	4908.0	4898.3	4888.7	4862.2	4862.2	4857.4	4843.0	4833.3	4828.5	4816.4	4811.6
7.5°	4886.3	4857.4	4840.5	4823.6	4802.0	4792.3	4775.4	4768.2	4751.3	4739.3	4732.1
10°	4833.3	4814.0	4792.3	4765.8	4748.9	4729.7	4710.3	4695.9	4674.2	4662.1	4652.5
12.5°	4797.1	4768.2	4748.9	4719.9	4691.1	4674.2	4647.7	4630.8	4609.1	4585.0	4570.5
15°	4763.4	4732.1	4705.6	4674.2	4642.8	4623.6	4592.2	4573.0	4541.6	4517.5	4500.7
17.5°	4712.8	4686.2	4657.3	4618.7	4589.9	4565.8	4531.9	4507.9	4478.9	4447.6	4430.7
20°	4659.7	4628.4	4599.5	4560.9	4531.9	4503.0	4469.3	4442.8	4409.0	4380.1	4360.9
22.5°	4589.9	4553.6	4529.5	4490.9	4457.2	4425.9	4394.6	4363.2	4331.9	4307.8	4286.0
25°	4488.6	4450.0	4423.5	4392.1	4360.9	4336.7	4298.1	4278.9	4247.5	4225.8	4204.1
27.5°	4343.9	4315.0	4290.9	4259.5	4233.1	4213.8	4184.8	4165.6	4139.0	4119.7	4102.9
30°	4131.8	4107.7	4086.0	4054.7	4035.4	4018.5	3991.9	3975.1	3955.8	3934.1	3929.3
32.5°	3847.4	3828.0	3806.4	3784.7	3770.2	3760.6	3738.8	3729.2	3710.0	3697.8	3685.8
35°	3418.2	3401.4	3389.4	3379.7	3374.9	3377.3	3372.5	3382.1	3386.9	3384.5	3386.9
37.5°	2856.6	2846.9	2851.8	2859.0	2883.1	2914.5	2943.4	2986.7	3015.7	3044.7	3071.2
40°	2229.8	2237.1	2256.3	2299.7	2362.4	2432.4	2497.4	2579.4	2661.4	2719.2	2772.2
42.5°	1682.6	1704.4	1752.5	1815.2	1909.3	2012.8	2114.1	2234.6	2333.5	2429.9	2497.4
45°	1265.6	1294.5	1357.2	1444.0	1547.6	1668.1	1795.9	1930.9	2049.1	2147.9	2222.6
47.5°	986.0	1012.5	1075.2	1166.8	1294.5	1419.9	1552.4	1692.3	1815.2	1911.6	1976.7
50°	778.6	812.3	867.8	964.3	1092.0	1224.6	1362.0	1499.4	1615.2	1697.1	1755.0
52.5°	612.3	643.7	696.6	798.0	928.1	1060.7	1188.4	1323.4	1424.6	1504.2	1542.8
55°	474.9	503.9	559.2	643.7	766.6	896.8	1024.5	1140.3	1234.2	1292.1	1328.3
57.5°	361.6	383.3	421.9	506.2	617.2	737.6	846.2	961.9	1034.2	1075.2	1099.2
60°	274.8	291.7	332.7	397.8	499.0	602.7	694.3	781.1	838.9	872.7	896.8
62.5°	207.3	226.6	255.5	311.0	388.1	472.5	549.6	614.7	662.9	684.6	701.5
65°	142.2	156.7	178.4	221.8	286.9	347.1	407.4	455.6	487.0	511.1	520.7
67.5°	106.1	115.7	127.8	161.5	207.3	255.5	296.5	330.2	364.0	373.7	390.5
70°	79.6	86.8	98.8	122.9	149.4	183.2	217.0	236.3	260.4	277.2	282.1
72.5°	50.6	53.0	65.1	79.6	101.2	122.9	144.7	161.5	176.0	185.6	190.4
75°	29.0	43.4	43.4	57.8	72.3	82.0	96.4	108.5	115.7	122.9	122.9
77.5°	19.2	26.5	29.0	36.1	43.4	55.5	67.5	74.7	82.0	84.3	84.3
80°	16.9	19.2	19.2	26.5	31.4	41.0	48.2	50.6	55.5	57.8	62.7
82.5°	7.2	9.6	12.0	19.2	21.7	21.7	29.0	31.4	36.1	38.6	38.6
85°	2.4	4.9	4.9	7.2	12.0	14.5	16.9	19.2	21.7	21.7	24.1
87.5°	2.4	2.4	0.0	2.4	4.9	4.9	9.6	9.6	9.6	14.5	14.5
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: P248571

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9	4936.9
2.5°	4893.6	4896.0	4886.3	4884.0	4879.1	4881.5	4886.3
5°	4804.4	4806.8	4797.1	4787.5	4787.5	4785.0	4787.5
7.5°	4719.9	4722.4	4707.9	4703.1	4693.5	4695.9	4695.9
10°	4635.6	4635.6	4614.0	4611.5	4604.3	4601.9	4601.9
12.5°	4553.6	4546.4	4529.5	4519.9	4524.8	4510.3	4510.3
15°	4481.3	4469.3	4447.6	4440.3	4428.3	4423.5	4423.5
17.5°	4406.6	4397.0	4377.7	4363.2	4348.8	4346.4	4348.8
20°	4334.3	4324.6	4300.5	4290.9	4278.9	4278.9	4274.0
22.5°	4261.9	4252.3	4230.7	4223.4	4206.6	4206.6	4208.9
25°	4187.2	4180.0	4155.9	4151.1	4148.7	4139.0	4143.9
27.5°	4086.0	4081.1	4061.9	4054.7	4045.0	4042.6	4047.4
30°	3900.4	3893.1	3878.7	3871.5	3854.6	3857.0	3861.8
32.5°	3669.0	3659.3	3640.0	3632.8	3618.4	3613.5	3615.9
35°	3379.7	3372.5	3355.6	3355.6	3341.1	3336.3	3341.1
37.5°	3085.6	3092.8	3085.6	3092.8	3085.6	3083.2	3085.6
40°	2808.4	2834.9	2839.7	2866.3	2856.6	2871.0	2868.6
42.5°	2543.2	2586.5	2603.5	2625.1	2620.4	2630.0	2637.3
45°	2275.6	2311.8	2328.7	2343.2	2345.5	2350.4	2352.8
47.5°	2022.5	2051.4	2053.8	2070.7	2068.3	2068.3	2075.5
50°	1786.3	1805.6	1810.3	1822.4	1812.8	1807.9	1810.3
52.5°	1566.9	1586.2	1581.3	1586.2	1574.2	1569.3	1571.7
55°	1342.7	1352.3	1352.3	1352.3	1337.9	1337.9	1337.9
57.5°	1113.7	1116.2	1111.3	1113.7	1111.3	1096.8	1094.4
60°	904.0	904.0	901.5	904.0	896.8	889.5	889.5
62.5°	706.3	711.1	720.8	711.1	706.3	711.1	703.9
65°	528.0	537.6	535.1	540.0	537.6	537.6	532.7
67.5°	397.8	400.2	402.5	405.0	405.0	405.0	405.0
70°	291.7	299.0	296.5	296.5	296.5	296.5	311.0
72.5°	195.3	204.9	202.5	207.3	207.3	212.1	207.3
75°	132.6	142.2	137.4	144.7	142.2	137.4	149.4
77.5°	89.2	94.1	96.4	98.8	96.4	94.1	96.4
80°	62.7	67.5	65.1	67.5	67.5	67.5	70.0
82.5°	38.6	45.8	43.4	45.8	43.4	45.8	45.8
85°	26.5	29.0	24.1	29.0	26.5	26.5	31.4
87.5°	16.9	14.5	14.5	16.9	14.5	16.9	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)