

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: P248970

Luminaire Tested: **LD8B120D010 ER8B120930 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248970
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: LD8B120D010 ER8B120930 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7779.7 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

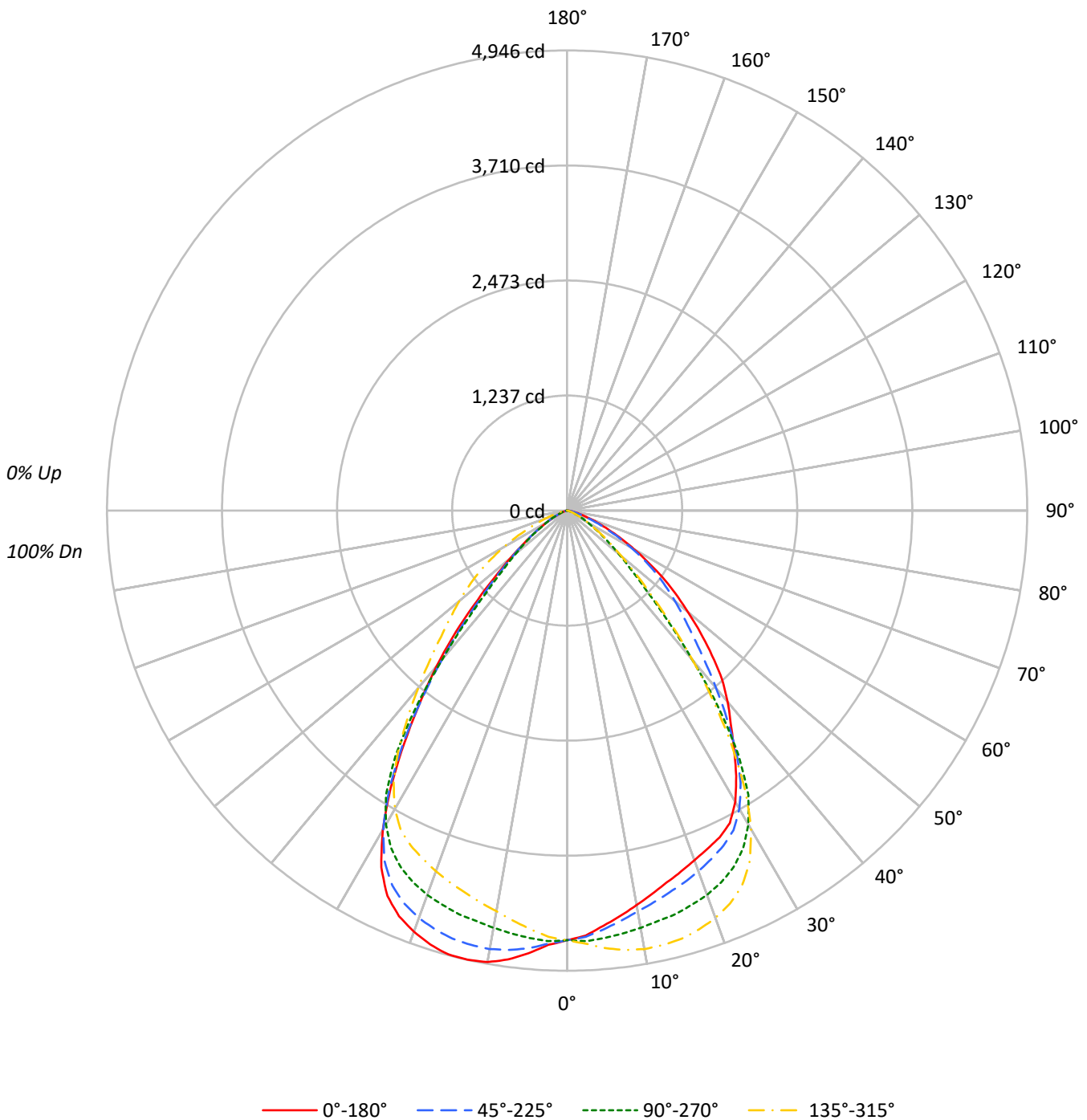
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.6	5.7
10°-20°	1273.0	16.4
20°-30°	1927.6	24.8
30°-40°	1931.9	24.8
40°-50°	1213.2	15.6
50°-60°	646.5	8.3
60°-70°	265.8	3.4
70°-80°	70.2	0.9
80°-90°	11.9	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°	3640.2	46.8
0°-40°	5572.1	71.6
0°-60°	7431.8	95.5
0°-90°	7779.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7779.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4619	4619	4619	4619	4619	
5°	4479	4612	4776	4612	4479	422
15°	4138	4492	4939	4492	4138	1170
25°	3877	4231	4571	4231	3877	1778
35°	3126	3214	3049	3214	3126	1958
45°	2201	1177	1362	1177	2201	1693
55°	1252	435	460	435	1252	1116
65°	498	133	122	133	498	517
75°	140	27	22	27	140	158
85°	29	0	2	0	29	32
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°	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6
2.5°	4571.2	4566.7	4564.5	4569.0	4571.2	4580.3	4578.1	4582.4	4582.4	4584.8	4589.3
5°	4478.8	4476.5	4478.8	4478.8	4487.8	4496.8	4494.5	4501.4	4505.7	4517.2	4521.6
7.5°	4393.1	4393.1	4390.8	4399.8	4404.3	4417.9	4415.6	4426.9	4433.7	4444.9	4460.7
10°	4305.1	4305.1	4307.3	4314.2	4316.4	4336.7	4336.7	4352.5	4361.5	4372.8	4393.1
12.5°	4219.4	4219.4	4233.0	4228.4	4237.5	4253.2	4260.0	4275.8	4289.3	4311.9	4332.2
15°	4138.2	4138.2	4142.8	4154.0	4160.8	4181.1	4192.3	4210.5	4226.2	4248.8	4278.1
17.5°	4068.3	4066.1	4068.3	4081.9	4095.5	4113.4	4122.5	4145.0	4160.8	4190.1	4217.2
20°	3998.4	4003.0	4003.0	4014.2	4023.2	4045.8	4054.8	4079.7	4097.7	4124.7	4156.3
22.5°	3937.5	3935.3	3935.3	3951.1	3957.9	3978.1	3987.1	4009.7	4030.0	4052.5	4081.9
25°	3876.6	3872.0	3881.2	3883.4	3887.9	3910.4	3917.2	3933.0	3953.3	3973.6	4003.0
27.5°	3786.4	3781.9	3784.2	3793.2	3800.0	3818.0	3822.5	3838.3	3854.1	3872.0	3896.9
30°	3612.8	3608.3	3606.0	3621.8	3628.6	3642.0	3648.9	3676.0	3680.4	3700.8	3718.7
32.5°	3382.7	3380.5	3385.1	3398.5	3405.3	3423.4	3432.4	3448.2	3459.4	3470.7	3488.8
35°	3125.7	3121.1	3125.7	3139.2	3139.2	3155.1	3161.8	3168.5	3166.3	3168.5	3164.0
37.5°	2886.7	2884.3	2886.7	2893.3	2886.7	2893.3	2886.7	2873.1	2848.3	2821.2	2794.1
40°	2683.7	2685.9	2672.5	2681.4	2656.5	2652.1	2627.3	2593.4	2543.9	2489.7	2413.1
42.5°	2467.2	2460.4	2451.4	2455.9	2435.6	2419.8	2379.2	2336.4	2273.2	2183.0	2090.6
45°	2201.1	2198.8	2194.2	2192.0	2178.6	2162.7	2128.9	2079.2	2009.4	1916.9	1806.4
47.5°	1941.7	1935.0	1935.0	1937.2	1921.4	1919.2	1892.0	1849.2	1788.3	1698.1	1583.1
50°	1693.6	1691.4	1696.0	1704.9	1693.6	1689.1	1671.1	1641.8	1587.7	1511.0	1402.7
52.5°	1470.3	1468.1	1472.7	1483.9	1479.4	1483.9	1465.9	1443.3	1407.2	1332.8	1238.1
55°	1251.6	1251.6	1251.6	1265.2	1265.2	1265.2	1256.1	1242.6	1208.8	1154.6	1066.7
57.5°	1023.8	1026.1	1039.6	1041.9	1039.6	1044.2	1041.9	1028.3	1005.9	967.5	899.8
60°	832.1	832.1	839.0	845.7	843.4	845.7	845.7	839.0	816.4	784.8	730.7
62.5°	658.5	665.3	660.7	665.3	674.3	665.3	660.7	656.2	640.5	620.1	575.1
65°	498.4	502.9	502.9	505.1	500.6	502.9	493.9	487.2	478.1	455.6	426.2
67.5°	378.9	378.9	378.9	378.9	376.5	374.4	372.2	365.3	349.5	340.6	308.9
70°	290.9	277.3	277.3	277.3	277.3	279.7	272.9	263.9	259.4	243.6	221.1
72.5°	193.9	198.4	193.9	193.9	189.4	191.7	182.7	178.1	173.6	164.7	151.1
75°	139.8	128.6	133.1	135.3	128.6	133.1	124.0	115.0	115.0	108.3	101.5
77.5°	90.2	88.0	90.2	92.5	90.2	88.0	83.4	78.9	78.9	76.7	70.0
80°	65.5	63.1	63.1	63.1	60.9	63.1	58.6	58.6	54.1	51.9	47.3
82.5°	42.9	42.9	40.6	42.9	40.6	42.9	36.1	36.1	36.1	33.7	29.4
85°	29.4	24.8	24.8	27.1	22.5	27.1	24.8	22.5	20.3	20.3	18.0
87.5°	13.6	15.8	13.6	15.8	13.6	13.6	15.8	13.6	13.6	9.0	9.0
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°	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6
2.5°	4596.0	4598.2	4598.2	4607.3	4611.8	4614.0	4614.0	4632.1	4625.4	4630.0	4634.3
5°	4530.6	4544.1	4548.7	4548.7	4573.5	4582.4	4591.5	4611.8	4614.0	4627.6	4643.4
7.5°	4467.5	4483.2	4492.3	4512.6	4528.4	4544.1	4571.2	4584.8	4598.2	4616.4	4636.6
10°	4406.5	4424.7	4442.6	4458.4	4483.2	4503.6	4521.6	4553.2	4569.0	4593.7	4620.8
12.5°	4348.0	4372.8	4388.6	4415.6	4442.6	4460.7	4487.8	4517.2	4542.0	4566.7	4598.2
15°	4296.1	4325.5	4343.4	4372.8	4402.2	4426.9	4456.2	4492.3	4510.3	4539.7	4569.0
17.5°	4239.6	4271.3	4293.9	4320.9	4357.0	4384.0	4408.9	4444.9	4467.5	4499.0	4532.9
20°	4181.1	4212.7	4239.6	4266.8	4302.8	4329.9	4359.2	4395.3	4420.1	4451.7	4478.8
22.5°	4111.2	4140.5	4169.8	4201.3	4237.5	4260.0	4293.9	4325.5	4352.5	4381.8	4408.9
25°	4021.0	4057.1	4079.7	4108.9	4138.2	4163.1	4199.2	4230.7	4253.2	4280.3	4305.1
27.5°	3915.0	3942.1	3960.0	3984.8	4014.2	4036.7	4063.7	4095.5	4118.0	4142.8	4160.8
30°	3734.5	3759.4	3775.2	3793.2	3822.5	3842.9	3865.4	3894.7	3910.4	3928.5	3944.4
32.5°	3497.7	3518.0	3527.1	3540.6	3561.0	3581.1	3599.3	3624.1	3630.8	3642.0	3642.0
35°	3155.1	3159.4	3157.3	3161.8	3170.7	3182.1	3197.8	3213.6	3222.7	3222.7	3215.9
37.5°	2753.5	2726.5	2697.2	2674.7	2667.9	2663.3	2672.5	2679.1	2688.2	2692.6	2681.4
40°	2336.4	2275.5	2210.1	2151.4	2110.8	2092.8	2086.1	2090.6	2090.6	2106.2	2106.2
42.5°	1977.8	1883.1	1786.1	1698.1	1639.5	1594.4	1574.1	1574.1	1576.4	1587.7	1594.4
45°	1680.2	1560.5	1447.8	1350.9	1269.6	1211.0	1184.0	1177.2	1174.9	1179.4	1195.2
47.5°	1452.4	1328.3	1211.0	1091.5	1005.9	947.1	922.4	913.3	904.3	913.3	915.6
50°	1274.2	1145.7	1021.7	902.1	811.8	759.9	728.4	714.9	712.6	712.6	717.2
52.5°	1111.8	992.3	868.3	746.5	651.7	602.2	572.8	566.0	557.0	566.0	566.0
55°	958.5	839.0	717.2	602.2	523.2	471.4	444.3	435.3	430.7	437.5	437.5
57.5°	791.7	690.1	577.3	473.6	394.7	358.6	338.2	327.0	324.8	329.2	324.8
60°	649.5	563.9	466.8	372.2	311.2	272.9	257.2	252.6	248.1	252.6	252.6
62.5°	514.2	442.0	363.1	290.9	239.0	212.0	193.9	193.9	191.7	191.7	193.9
65°	381.1	324.8	268.4	207.5	166.9	146.5	133.1	133.1	130.8	133.1	130.8
67.5°	277.3	239.0	193.9	151.1	119.6	108.3	99.2	92.5	97.0	92.5	90.2
70°	203.0	171.4	139.8	115.0	92.5	81.3	74.4	72.1	67.7	67.7	67.7
72.5°	135.3	115.0	94.7	74.4	60.9	49.5	47.3	42.9	38.3	40.6	45.1
75°	90.2	76.7	67.7	54.1	40.6	40.6	27.1	27.1	22.5	27.1	20.3
77.5°	63.1	51.9	40.6	33.7	27.1	24.8	18.0	18.0	15.8	15.8	15.8
80°	45.1	38.3	29.4	24.8	18.0	18.0	15.8	13.6	11.2	11.2	13.6
82.5°	27.1	20.3	20.3	18.0	11.2	9.0	6.7	9.0	4.6	4.6	4.6
85°	15.8	13.6	11.2	6.7	4.6	4.6	2.2	0.0	2.2	2.2	0.0
87.5°	9.0	4.6	4.6	2.2	0.0	2.2	2.2	0.0	0.0	0.0	4.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6
2.5°	4645.6	4643.4	4647.9	4647.9	4661.5	4659.1	4665.9	4665.9	4661.5	4663.7	4672.7
5°	4661.5	4668.3	4681.7	4693.1	4713.2	4722.3	4733.6	4745.0	4747.1	4753.9	4760.7
7.5°	4661.5	4684.0	4699.8	4720.1	4747.1	4762.9	4787.7	4808.1	4817.0	4828.3	4841.8
10°	4652.4	4674.9	4704.3	4726.8	4760.7	4785.4	4810.3	4841.8	4855.4	4873.4	4891.5
12.5°	4634.3	4659.1	4690.7	4720.1	4758.4	4781.0	4812.5	4841.8	4862.1	4886.9	4907.3
15°	4607.3	4636.6	4665.9	4695.3	4735.8	4762.9	4792.3	4826.0	4846.4	4873.4	4891.5
17.5°	4564.5	4596.0	4623.1	4650.1	4688.5	4720.1	4747.1	4778.7	4799.0	4821.6	4846.4
20°	4512.6	4542.0	4571.2	4593.7	4632.1	4659.1	4688.5	4717.8	4733.6	4738.1	4776.5
22.5°	4447.2	4467.5	4490.1	4526.1	4548.7	4573.5	4600.6	4627.6	4643.4	4668.3	4681.7
25°	4338.9	4359.2	4384.0	4399.8	4426.9	4447.2	4474.2	4503.6	4512.6	4530.6	4544.1
27.5°	4187.8	4199.2	4210.5	4223.9	4239.6	4250.9	4266.8	4280.3	4289.3	4298.4	4307.3
30°	3948.7	3948.7	3948.7	3939.8	3946.5	3953.3	3955.6	3953.3	3953.3	3951.1	3951.1
32.5°	3633.0	3615.1	3594.7	3576.8	3569.9	3561.0	3556.4	3549.6	3538.4	3531.6	3533.8
35°	3206.8	3166.3	3141.5	3119.0	3100.9	3087.3	3080.6	3073.8	3071.5	3062.6	3053.5
37.5°	2674.7	2645.3	2627.3	2613.7	2598.0	2584.5	2586.7	2588.9	2595.7	2591.2	2593.4
40°	2110.8	2104.0	2110.8	2095.0	2090.6	2095.0	2106.2	2122.2	2131.1	2140.2	2155.9
42.5°	1605.7	1616.9	1632.7	1632.7	1639.5	1648.5	1662.0	1686.9	1700.3	1716.1	1734.3
45°	1208.8	1222.3	1242.6	1249.4	1253.8	1265.2	1281.0	1301.3	1310.2	1323.8	1339.6
47.5°	931.4	940.4	951.6	962.9	974.1	978.7	994.6	994.6	1005.9	1014.8	1019.3
50°	726.2	735.2	744.1	751.0	755.6	762.3	766.8	773.5	775.7	780.3	782.5
52.5°	568.2	579.6	579.6	584.0	590.9	597.6	595.4	597.6	599.8	599.8	606.6
55°	444.3	444.3	451.1	451.1	455.6	453.2	455.6	455.6	455.6	455.6	457.8
57.5°	331.5	333.8	340.6	336.1	333.8	338.2	333.8	338.2	336.1	340.6	333.8
60°	254.8	254.8	257.2	257.2	259.4	259.4	259.4	257.2	257.2	254.8	254.8
62.5°	191.7	193.9	196.3	193.9	193.9	193.9	191.7	191.7	189.4	187.1	187.1
65°	128.6	126.3	130.8	126.3	128.6	128.6	126.3	128.6	121.7	124.0	121.7
67.5°	92.5	90.2	88.0	90.2	88.0	85.6	85.6	88.0	90.2	83.4	83.4
70°	60.9	63.1	60.9	63.1	65.5	65.5	63.1	60.9	63.1	58.6	60.9
72.5°	38.3	38.3	38.3	38.3	38.3	40.6	40.6	40.6	36.1	36.1	33.7
75°	18.0	24.8	20.3	18.0	24.8	24.8	22.5	22.5	20.3	20.3	20.3
77.5°	18.0	13.6	13.6	13.6	13.6	13.6	13.6	13.6	11.2	13.6	11.2
80°	9.0	9.0	9.0	6.7	9.0	9.0	11.2	9.0	9.0	6.7	11.2
82.5°	4.6	4.6	4.6	0.0	2.2	4.6	4.6	2.2	4.6	4.6	2.2
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: P248970

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6
2.5°	4670.4	4668.3	4670.4	4672.7	4670.4	4668.3	4670.4	4672.7	4663.7	4661.5	4665.9
5°	4769.7	4769.7	4774.1	4776.5	4774.1	4769.7	4769.7	4760.7	4753.9	4747.1	4745.0
7.5°	4855.4	4860.0	4864.4	4866.6	4864.4	4860.0	4855.4	4841.8	4828.3	4817.0	4808.1
10°	4907.3	4914.0	4923.1	4927.5	4923.1	4914.0	4907.3	4891.5	4873.4	4855.4	4841.8
12.5°	4929.8	4936.5	4947.9	4945.6	4947.9	4936.5	4929.8	4907.3	4886.9	4862.1	4841.8
15°	4914.0	4923.1	4934.3	4938.8	4934.3	4923.1	4914.0	4891.5	4873.4	4846.4	4826.0
17.5°	4864.4	4877.9	4884.8	4891.5	4884.8	4877.9	4864.4	4846.4	4821.6	4799.0	4778.7
20°	4796.8	4805.8	4814.8	4817.0	4814.8	4805.8	4796.8	4776.5	4738.1	4733.6	4717.8
22.5°	4699.8	4706.6	4726.8	4720.1	4726.8	4706.6	4699.8	4681.7	4668.3	4643.4	4627.6
25°	4559.9	4566.7	4569.0	4571.2	4569.0	4566.7	4559.9	4544.1	4530.6	4512.6	4503.6
27.5°	4318.7	4318.7	4323.1	4325.5	4323.1	4318.7	4318.7	4307.3	4298.4	4289.3	4280.3
30°	3953.3	3953.3	3953.3	3964.6	3953.3	3953.3	3953.3	3951.1	3951.1	3953.3	3953.3
32.5°	3531.6	3527.1	3522.6	3527.1	3522.6	3527.1	3531.6	3533.8	3531.6	3538.4	3549.6
35°	3053.5	3051.2	3058.0	3049.0	3058.0	3051.2	3053.5	3053.5	3062.6	3071.5	3073.8
37.5°	2595.7	2591.2	2600.2	2591.2	2600.2	2591.2	2595.7	2593.4	2591.2	2595.7	2588.9
40°	2160.5	2165.0	2165.0	2183.0	2165.0	2165.0	2160.5	2155.9	2140.2	2131.1	2122.2
42.5°	1743.3	1756.8	1752.2	1765.8	1752.2	1756.8	1743.3	1734.3	1716.1	1700.3	1686.9
45°	1348.6	1357.6	1357.6	1362.1	1357.6	1357.6	1348.6	1339.6	1323.8	1310.2	1301.3
47.5°	1035.1	1035.1	1035.1	1037.4	1035.1	1035.1	1035.1	1019.3	1014.8	1005.9	994.6
50°	787.1	789.3	791.7	793.9	791.7	789.3	787.1	782.5	780.3	775.7	773.5
52.5°	604.3	606.6	602.2	606.6	602.2	606.6	604.3	606.6	599.8	599.8	597.6
55°	457.8	455.6	457.8	460.1	457.8	455.6	457.8	457.8	455.6	455.6	455.6
57.5°	336.1	331.5	331.5	331.5	331.5	331.5	336.1	333.8	340.6	336.1	338.2
60°	250.3	252.6	252.6	254.8	252.6	252.6	250.3	254.8	254.8	257.2	257.2
62.5°	184.9	191.7	187.1	191.7	187.1	191.7	184.9	187.1	187.1	189.4	191.7
65°	119.6	119.6	119.6	121.7	119.6	119.6	119.6	121.7	124.0	121.7	128.6
67.5°	81.3	83.4	88.0	85.6	88.0	83.4	81.3	83.4	83.4	90.2	88.0
70°	65.5	58.6	58.6	65.5	58.6	58.6	65.5	60.9	58.6	63.1	60.9
72.5°	38.3	33.7	38.3	38.3	38.3	33.7	38.3	33.7	36.1	36.1	40.6
75°	20.3	18.0	15.8	22.5	15.8	18.0	20.3	20.3	20.3	20.3	22.5
77.5°	13.6	11.2	15.8	15.8	15.8	11.2	13.6	11.2	13.6	11.2	13.6
80°	6.7	9.0	6.7	11.2	6.7	9.0	6.7	11.2	6.7	9.0	9.0
82.5°	2.2	4.6	4.6	4.6	4.6	4.6	2.2	2.2	4.6	4.6	2.2
85°	0.0	4.6	2.2	2.2	2.2	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.0	0.0	2.2	0.0	0.0	2.2	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: P248970

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6
2.5°	4665.9	4659.1	4661.5	4647.9	4647.9	4643.4	4645.6	4634.3	4630.0	4625.4	4632.1
5°	4733.6	4722.3	4713.2	4693.1	4681.7	4668.3	4661.5	4643.4	4627.6	4614.0	4611.8
7.5°	4787.7	4762.9	4747.1	4720.1	4699.8	4684.0	4661.5	4636.6	4616.4	4598.2	4584.8
10°	4810.3	4785.4	4760.7	4726.8	4704.3	4674.9	4652.4	4620.8	4593.7	4569.0	4553.2
12.5°	4812.5	4781.0	4758.4	4720.1	4690.7	4659.1	4634.3	4598.2	4566.7	4542.0	4517.2
15°	4792.3	4762.9	4735.8	4695.3	4665.9	4636.6	4607.3	4569.0	4539.7	4510.3	4492.3
17.5°	4747.1	4720.1	4688.5	4650.1	4623.1	4596.0	4564.5	4532.9	4499.0	4467.5	4444.9
20°	4688.5	4659.1	4632.1	4593.7	4571.2	4542.0	4512.6	4478.8	4451.7	4420.1	4395.3
22.5°	4600.6	4573.5	4548.7	4526.1	4490.1	4467.5	4447.2	4408.9	4381.8	4352.5	4325.5
25°	4474.2	4447.2	4426.9	4399.8	4384.0	4359.2	4338.9	4305.1	4280.3	4253.2	4230.7
27.5°	4266.8	4250.9	4239.6	4223.9	4210.5	4199.2	4187.8	4160.8	4142.8	4118.0	4095.5
30°	3955.6	3953.3	3946.5	3939.8	3948.7	3948.7	3948.7	3944.4	3928.5	3910.4	3894.7
32.5°	3556.4	3561.0	3569.9	3576.8	3594.7	3615.1	3633.0	3642.0	3642.0	3630.8	3624.1
35°	3080.6	3087.3	3100.9	3119.0	3141.5	3166.3	3206.8	3215.9	3222.7	3222.7	3213.6
37.5°	2586.7	2584.5	2598.0	2613.7	2627.3	2645.3	2674.7	2681.4	2692.6	2688.2	2679.1
40°	2106.2	2095.0	2090.6	2095.0	2110.8	2104.0	2110.8	2106.2	2106.2	2090.6	2090.6
42.5°	1662.0	1648.5	1639.5	1632.7	1632.7	1616.9	1605.7	1594.4	1587.7	1576.4	1574.1
45°	1281.0	1265.2	1253.8	1249.4	1242.6	1222.3	1208.8	1195.2	1179.4	1174.9	1177.2
47.5°	994.6	978.7	974.1	962.9	951.6	940.4	931.4	915.6	913.3	904.3	913.3
50°	766.8	762.3	755.6	751.0	744.1	735.2	726.2	717.2	712.6	712.6	714.9
52.5°	595.4	597.6	590.9	584.0	579.6	579.6	568.2	566.0	566.0	557.0	566.0
55°	455.6	453.2	455.6	451.1	451.1	444.3	444.3	437.5	437.5	430.7	435.3
57.5°	333.8	338.2	333.8	336.1	340.6	333.8	331.5	324.8	329.2	324.8	327.0
60°	259.4	259.4	259.4	257.2	257.2	254.8	254.8	252.6	252.6	248.1	252.6
62.5°	191.7	193.9	193.9	193.9	196.3	193.9	191.7	193.9	191.7	191.7	193.9
65°	126.3	128.6	128.6	126.3	130.8	126.3	128.6	130.8	133.1	130.8	133.1
67.5°	85.6	85.6	88.0	90.2	88.0	90.2	92.5	90.2	92.5	97.0	92.5
70°	63.1	65.5	65.5	63.1	60.9	63.1	60.9	67.7	67.7	67.7	72.1
72.5°	40.6	40.6	38.3	38.3	38.3	38.3	38.3	45.1	40.6	38.3	42.9
75°	22.5	24.8	24.8	18.0	20.3	24.8	18.0	20.3	27.1	22.5	27.1
77.5°	13.6	13.6	13.6	13.6	13.6	13.6	18.0	15.8	15.8	15.8	18.0
80°	11.2	9.0	9.0	6.7	9.0	9.0	9.0	13.6	11.2	11.2	13.6
82.5°	4.6	4.6	2.2	0.0	4.6	4.6	4.6	4.6	4.6	4.6	9.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	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: P248970

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6
2.5°	4614.0	4614.0	4611.8	4607.3	4598.2	4598.2	4596.0	4589.3	4584.8	4582.4	4582.4
5°	4591.5	4582.4	4573.5	4548.7	4548.7	4544.1	4530.6	4521.6	4517.2	4505.7	4501.4
7.5°	4571.2	4544.1	4528.4	4512.6	4492.3	4483.2	4467.5	4460.7	4444.9	4433.7	4426.9
10°	4521.6	4503.6	4483.2	4458.4	4442.6	4424.7	4406.5	4393.1	4372.8	4361.5	4352.5
12.5°	4487.8	4460.7	4442.6	4415.6	4388.6	4372.8	4348.0	4332.2	4311.9	4289.3	4275.8
15°	4456.2	4426.9	4402.2	4372.8	4343.4	4325.5	4296.1	4278.1	4248.8	4226.2	4210.5
17.5°	4408.9	4384.0	4357.0	4320.9	4293.9	4271.3	4239.6	4217.2	4190.1	4160.8	4145.0
20°	4359.2	4329.9	4302.8	4266.8	4239.6	4212.7	4181.1	4156.3	4124.7	4097.7	4079.7
22.5°	4293.9	4260.0	4237.5	4201.3	4169.8	4140.5	4111.2	4081.9	4052.5	4030.0	4009.7
25°	4199.2	4163.1	4138.2	4108.9	4079.7	4057.1	4021.0	4003.0	3973.6	3953.3	3933.0
27.5°	4063.7	4036.7	4014.2	3984.8	3960.0	3942.1	3915.0	3896.9	3872.0	3854.1	3838.3
30°	3865.4	3842.9	3822.5	3793.2	3775.2	3759.4	3734.5	3718.7	3700.8	3680.4	3676.0
32.5°	3599.3	3581.1	3561.0	3540.6	3527.1	3518.0	3497.7	3488.8	3470.7	3459.4	3448.2
35°	3197.8	3182.1	3170.7	3161.8	3157.3	3159.4	3155.1	3164.0	3168.5	3166.3	3168.5
37.5°	2672.5	2663.3	2667.9	2674.7	2697.2	2726.5	2753.5	2794.1	2821.2	2848.3	2873.1
40°	2086.1	2092.8	2110.8	2151.4	2210.1	2275.5	2336.4	2413.1	2489.7	2543.9	2593.4
42.5°	1574.1	1594.4	1639.5	1698.1	1786.1	1883.1	1977.8	2090.6	2183.0	2273.2	2336.4
45°	1184.0	1211.0	1269.6	1350.9	1447.8	1560.5	1680.2	1806.4	1916.9	2009.4	2079.2
47.5°	922.4	947.1	1005.9	1091.5	1211.0	1328.3	1452.4	1583.1	1698.1	1788.3	1849.2
50°	728.4	759.9	811.8	902.1	1021.7	1145.7	1274.2	1402.7	1511.0	1587.7	1641.8
52.5°	572.8	602.2	651.7	746.5	868.3	992.3	1111.8	1238.1	1332.8	1407.2	1443.3
55°	444.3	471.4	523.2	602.2	717.2	839.0	958.5	1066.7	1154.6	1208.8	1242.6
57.5°	338.2	358.6	394.7	473.6	577.3	690.1	791.7	899.8	967.5	1005.9	1028.3
60°	257.2	272.9	311.2	372.2	466.8	563.9	649.5	730.7	784.8	816.4	839.0
62.5°	193.9	212.0	239.0	290.9	363.1	442.0	514.2	575.1	620.1	640.5	656.2
65°	133.1	146.5	166.9	207.5	268.4	324.8	381.1	426.2	455.6	478.1	487.2
67.5°	99.2	108.3	119.6	151.1	193.9	239.0	277.3	308.9	340.6	349.5	365.3
70°	74.4	81.3	92.5	115.0	139.8	171.4	203.0	221.1	243.6	259.4	263.9
72.5°	47.3	49.5	60.9	74.4	94.7	115.0	135.3	151.1	164.7	173.6	178.1
75°	27.1	40.6	40.6	54.1	67.7	76.7	90.2	101.5	108.3	115.0	115.0
77.5°	18.0	24.8	27.1	33.7	40.6	51.9	63.1	70.0	76.7	78.9	78.9
80°	15.8	18.0	18.0	24.8	29.4	38.3	45.1	47.3	51.9	54.1	58.6
82.5°	6.7	9.0	11.2	18.0	20.3	20.3	27.1	29.4	33.7	36.1	36.1
85°	2.2	4.6	4.6	6.7	11.2	13.6	15.8	18.0	20.3	20.3	22.5
87.5°	2.2	2.2	0.0	2.2	4.6	4.6	9.0	9.0	9.0	13.6	13.6
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: P248970

CATALOG NUMBER: LD8B120D010 ER8B120930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6	4618.6
2.5°	4578.1	4580.3	4571.2	4569.0	4564.5	4566.7	4571.2
5°	4494.5	4496.8	4487.8	4478.8	4478.8	4476.5	4478.8
7.5°	4415.6	4417.9	4404.3	4399.8	4390.8	4393.1	4393.1
10°	4336.7	4336.7	4316.4	4314.2	4307.3	4305.1	4305.1
12.5°	4260.0	4253.2	4237.5	4228.4	4233.0	4219.4	4219.4
15°	4192.3	4181.1	4160.8	4154.0	4142.8	4138.2	4138.2
17.5°	4122.5	4113.4	4095.5	4081.9	4068.3	4066.1	4068.3
20°	4054.8	4045.8	4023.2	4014.2	4003.0	4003.0	3998.4
22.5°	3987.1	3978.1	3957.9	3951.1	3935.3	3935.3	3937.5
25°	3917.2	3910.4	3887.9	3883.4	3881.2	3872.0	3876.6
27.5°	3822.5	3818.0	3800.0	3793.2	3784.2	3781.9	3786.4
30°	3648.9	3642.0	3628.6	3621.8	3606.0	3608.3	3612.8
32.5°	3432.4	3423.4	3405.3	3398.5	3385.1	3380.5	3382.7
35°	3161.8	3155.1	3139.2	3139.2	3125.7	3121.1	3125.7
37.5°	2886.7	2893.3	2886.7	2893.3	2886.7	2884.3	2886.7
40°	2627.3	2652.1	2656.5	2681.4	2672.5	2685.9	2683.7
42.5°	2379.2	2419.8	2435.6	2455.9	2451.4	2460.4	2467.2
45°	2128.9	2162.7	2178.6	2192.0	2194.2	2198.8	2201.1
47.5°	1892.0	1919.2	1921.4	1937.2	1935.0	1935.0	1941.7
50°	1671.1	1689.1	1693.6	1704.9	1696.0	1691.4	1693.6
52.5°	1465.9	1483.9	1479.4	1483.9	1472.7	1468.1	1470.3
55°	1256.1	1265.2	1265.2	1265.2	1251.6	1251.6	1251.6
57.5°	1041.9	1044.2	1039.6	1041.9	1039.6	1026.1	1023.8
60°	845.7	845.7	843.4	845.7	839.0	832.1	832.1
62.5°	660.7	665.3	674.3	665.3	660.7	665.3	658.5
65°	493.9	502.9	500.6	505.1	502.9	502.9	498.4
67.5°	372.2	374.4	376.5	378.9	378.9	378.9	378.9
70°	272.9	279.7	277.3	277.3	277.3	277.3	290.9
72.5°	182.7	191.7	189.4	193.9	193.9	198.4	193.9
75°	124.0	133.1	128.6	135.3	133.1	128.6	139.8
77.5°	83.4	88.0	90.2	92.5	90.2	88.0	90.2
80°	58.6	63.1	60.9	63.1	63.1	63.1	65.5
82.5°	36.1	42.9	40.6	42.9	40.6	42.9	42.9
85°	24.8	27.1	22.5	27.1	24.8	24.8	29.4
87.5°	15.8	13.6	13.6	15.8	13.6	15.8	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)