

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: P248754

Luminaire Tested: **LD8B120D010 ER8B1209730 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248754
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 ER8B1209730 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9004.0 lumens
Efficiency: N/A
Efficacy: 76.1 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

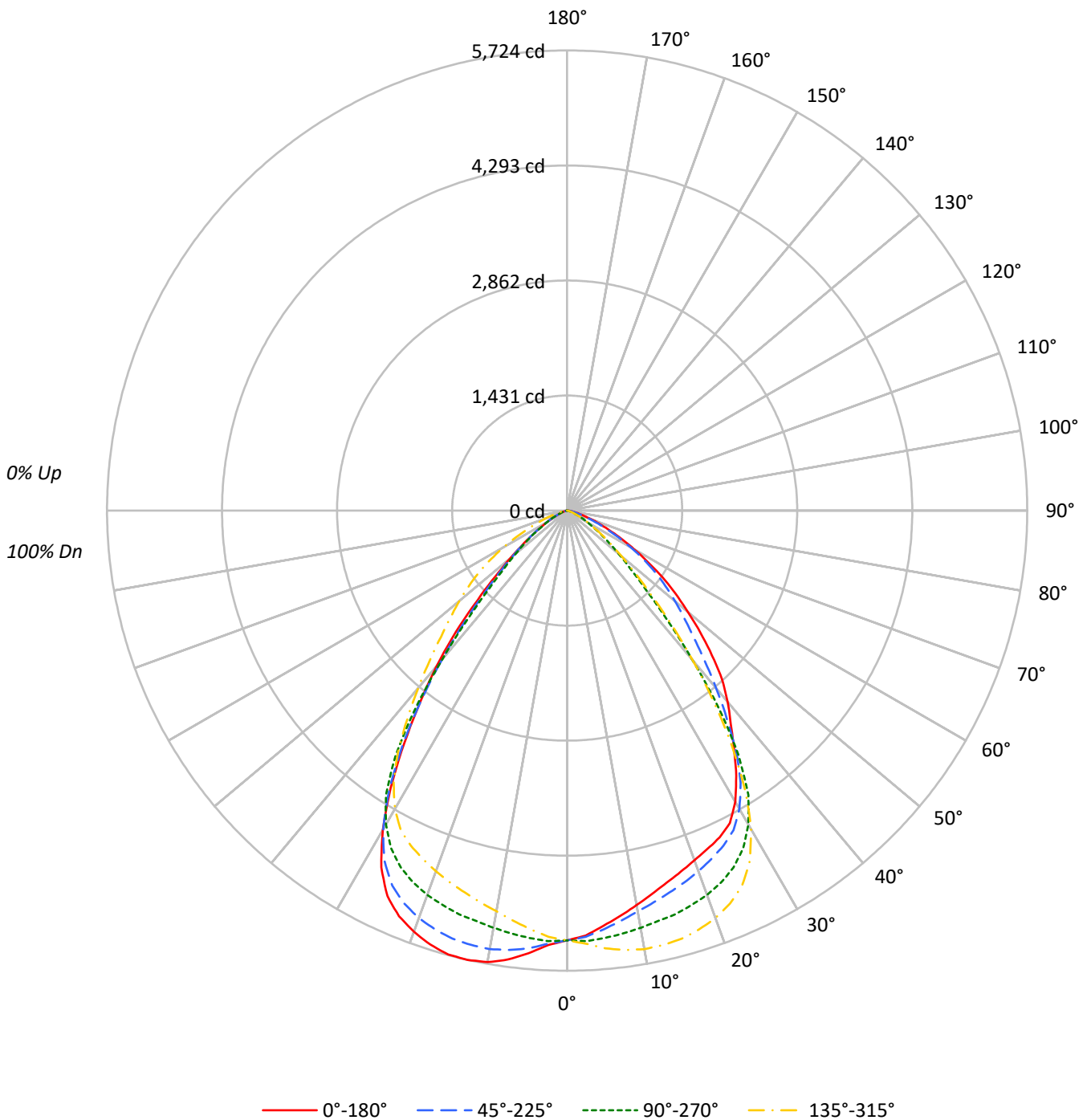
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	508.8	5.7
10°-20°	1473.3	16.4
20°-30°	2230.9	24.8
30°-40°	2235.9	24.8
40°-50°	1404.1	15.6
50°-60°	748.2	8.3
60°-70°	307.7	3.4
70°-80°	81.3	0.9
80°-90°	13.8	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°	4213.1	46.8
0°-40°	6449.0	71.6
0°-60°	8601.3	95.5
0°-90°	9004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9004.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5345	5345	5345	5345	5345	
5°	5184	5338	5528	5338	5184	489
15°	4789	5199	5716	5199	4789	1355
25°	4487	4896	5291	4896	4487	2058
35°	3618	3719	3529	3719	3618	2266
45°	2547	1362	1576	1362	2547	1959
55°	1449	504	532	504	1449	1292
65°	577	154	141	154	577	598
75°	162	31	26	31	162	183
85°	34	0	3	0	34	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4
2.5°	5290.6	5285.3	5282.8	5288.0	5290.6	5301.0	5298.4	5303.6	5303.6	5306.3	5311.4
5°	5183.6	5180.9	5183.6	5183.6	5194.0	5204.4	5201.9	5209.7	5214.9	5228.0	5233.1
7.5°	5084.4	5084.4	5081.8	5092.2	5097.4	5113.1	5110.4	5123.5	5131.4	5144.4	5162.6
10°	4982.6	4982.6	4985.2	4993.0	4995.7	5019.1	5019.1	5037.4	5047.8	5060.9	5084.4
12.5°	4883.4	4883.4	4899.1	4893.9	4904.3	4922.5	4930.4	4948.6	4964.3	4990.4	5014.0
15°	4789.4	4789.4	4794.7	4807.7	4815.5	4839.1	4852.1	4873.0	4891.3	4917.4	4951.3
17.5°	4708.5	4706.0	4708.5	4724.2	4739.9	4760.7	4771.2	4797.3	4815.5	4849.5	4880.9
20°	4627.6	4632.9	4632.9	4645.9	4656.3	4682.4	4692.8	4721.6	4742.5	4773.7	4810.4
22.5°	4557.2	4554.6	4554.6	4572.8	4580.7	4604.1	4614.5	4640.6	4664.2	4690.3	4724.2
25°	4486.7	4481.4	4491.9	4494.5	4499.7	4525.8	4533.6	4551.9	4575.4	4599.0	4632.9
27.5°	4382.3	4377.1	4379.7	4390.1	4397.9	4418.8	4424.1	4442.3	4460.6	4481.4	4510.2
30°	4181.3	4176.1	4173.5	4191.8	4199.6	4215.2	4223.0	4254.4	4259.6	4283.1	4303.9
32.5°	3915.0	3912.5	3917.7	3933.3	3941.1	3962.1	3972.5	3990.8	4003.8	4016.9	4037.7
35°	3617.6	3612.3	3617.6	3633.2	3633.2	3651.5	3659.4	3667.1	3664.5	3667.1	3661.9
37.5°	3340.9	3338.2	3340.9	3348.7	3340.9	3348.7	3340.9	3325.2	3296.6	3265.2	3233.8
40°	3106.0	3108.5	3093.0	3103.4	3074.6	3069.4	3040.8	3001.5	2944.2	2881.5	2792.8
42.5°	2855.4	2847.6	2837.2	2842.3	2818.9	2800.5	2753.6	2704.1	2630.9	2526.6	2419.5
45°	2547.4	2544.9	2539.6	2537.0	2521.3	2503.1	2463.8	2406.5	2325.6	2218.6	2090.6
47.5°	2247.3	2239.4	2239.4	2242.0	2223.7	2221.2	2189.8	2140.3	2069.8	1965.4	1832.3
50°	1960.1	1957.5	1962.8	1973.2	1960.1	1954.9	1934.1	1900.2	1837.5	1748.8	1623.4
52.5°	1701.7	1699.1	1704.4	1717.4	1712.1	1717.4	1696.6	1670.5	1628.7	1542.5	1432.9
55°	1448.6	1448.6	1448.6	1464.2	1464.2	1464.2	1453.8	1438.2	1399.0	1336.3	1234.6
57.5°	1185.0	1187.6	1203.2	1205.8	1203.2	1208.5	1205.8	1190.1	1164.1	1119.8	1041.4
60°	963.1	963.1	971.0	978.8	976.1	978.8	978.8	971.0	944.9	908.3	845.7
62.5°	762.1	770.0	764.7	770.0	780.4	770.0	764.7	759.5	741.3	717.8	665.5
65°	576.8	582.1	582.1	584.6	579.4	582.1	571.6	563.8	553.4	527.3	493.3
67.5°	438.5	438.5	438.5	438.5	435.9	433.3	430.7	422.9	404.6	394.2	357.5
70°	336.7	321.0	321.0	321.0	321.0	323.7	315.9	305.4	300.2	281.9	255.8
72.5°	224.4	229.7	224.4	224.4	219.3	221.8	211.4	206.2	201.0	190.6	174.9
75°	161.8	148.8	154.0	156.6	148.8	154.0	143.5	133.1	133.1	125.3	117.4
77.5°	104.4	101.8	104.4	107.0	104.4	101.8	96.6	91.3	91.3	88.7	80.9
80°	75.7	73.1	73.1	73.1	70.5	73.1	67.9	67.9	62.6	60.1	54.8
82.5°	49.6	49.6	46.9	49.6	46.9	49.6	41.8	41.8	41.8	39.1	33.9
85°	33.9	28.7	28.7	31.4	26.1	31.4	28.7	26.1	23.5	23.5	20.8
87.5°	15.7	18.3	15.7	18.3	15.7	15.7	18.3	15.7	15.7	10.4	10.4
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°	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4
2.5°	5319.3	5321.9	5321.9	5332.4	5337.5	5340.1	5340.1	5361.1	5353.2	5358.5	5363.7
5°	5243.7	5259.2	5264.5	5264.5	5293.2	5303.6	5314.0	5337.5	5340.1	5355.8	5374.1
7.5°	5170.5	5188.8	5199.3	5222.7	5241.0	5259.2	5290.6	5306.3	5321.9	5342.8	5366.2
10°	5100.0	5121.0	5141.8	5160.1	5188.8	5212.3	5233.1	5269.7	5288.0	5316.7	5348.0
12.5°	5032.2	5060.9	5079.2	5110.4	5141.8	5162.6	5194.0	5228.0	5256.7	5285.3	5321.9
15°	4972.2	5006.1	5027.0	5060.9	5094.9	5123.5	5157.5	5199.3	5220.1	5254.1	5288.0
17.5°	4906.9	4943.5	4969.6	5000.9	5042.6	5073.9	5102.7	5144.4	5170.5	5207.0	5246.2
20°	4839.1	4875.6	4906.9	4938.2	4980.0	5011.3	5045.2	5087.0	5115.7	5152.2	5183.6
22.5°	4758.2	4792.1	4826.0	4862.5	4904.3	4930.4	4969.6	5006.1	5037.4	5071.3	5102.7
25°	4653.7	4695.5	4721.6	4755.5	4789.4	4818.1	4859.9	4896.4	4922.5	4953.9	4982.6
27.5°	4531.1	4562.4	4583.3	4612.0	4645.9	4672.0	4703.3	4739.9	4766.0	4794.7	4815.5
30°	4322.2	4351.0	4369.3	4390.1	4424.1	4447.6	4473.7	4507.5	4525.8	4546.7	4565.0
32.5°	4048.1	4071.7	4082.1	4097.8	4121.3	4144.7	4165.7	4194.4	4202.2	4215.2	4215.2
35°	3651.5	3656.7	3654.1	3659.4	3669.8	3682.8	3701.0	3719.3	3729.7	3729.7	3722.0
37.5°	3186.9	3155.6	3121.7	3095.5	3087.7	3082.4	3093.0	3100.7	3111.2	3116.4	3103.4
40°	2704.1	2633.6	2557.8	2490.0	2443.0	2422.2	2414.3	2419.5	2419.5	2437.7	2437.7
42.5°	2289.1	2179.4	2067.2	1965.4	1897.5	1845.4	1821.8	1821.8	1824.4	1837.5	1845.4
45°	1944.5	1806.1	1675.6	1563.5	1469.5	1401.6	1370.3	1362.5	1359.9	1365.0	1383.3
47.5°	1680.9	1537.4	1401.6	1263.3	1164.1	1096.2	1067.6	1057.0	1046.6	1057.0	1059.7
50°	1474.7	1325.9	1182.4	1044.0	939.6	879.5	843.0	827.3	824.8	824.8	830.0
52.5°	1286.7	1148.4	1004.9	864.0	754.3	696.9	663.0	655.1	644.7	655.1	655.1
55°	1109.2	971.0	830.0	696.9	605.5	545.5	514.2	503.7	498.5	506.3	506.3
57.5°	916.2	798.6	668.2	548.1	456.8	415.0	391.5	378.5	375.8	381.1	375.8
60°	751.7	652.5	540.3	430.7	360.2	315.9	297.6	292.3	287.1	292.3	292.3
62.5°	595.1	511.6	420.2	336.7	276.6	245.4	224.4	224.4	221.8	221.8	224.4
65°	441.1	375.8	310.6	240.1	193.2	169.6	154.0	154.0	151.4	154.0	151.4
67.5°	321.0	276.6	224.4	174.9	138.4	125.3	114.8	107.0	112.3	107.0	104.4
70°	235.0	198.3	161.8	133.1	107.0	94.0	86.2	83.5	78.3	78.3	78.3
72.5°	156.6	133.1	109.6	86.2	70.5	57.4	54.8	49.6	44.4	46.9	52.2
75°	104.4	88.7	78.3	62.6	46.9	46.9	31.4	31.4	26.1	31.4	23.5
77.5°	73.1	60.1	46.9	39.1	31.4	28.7	20.8	20.8	18.3	18.3	18.3
80°	52.2	44.4	33.9	28.7	20.8	20.8	18.3	15.7	13.0	13.0	15.7
82.5°	31.4	23.5	23.5	20.8	13.0	10.4	7.8	10.4	5.3	5.3	5.3
85°	18.3	15.7	13.0	7.8	5.3	5.3	2.6	0.0	2.6	2.6	0.0
87.5°	10.4	5.3	5.3	2.6	0.0	2.6	2.6	0.0	0.0	0.0	5.3
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°	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4
2.5°	5376.8	5374.1	5379.3	5379.3	5395.0	5392.3	5400.2	5400.2	5395.0	5397.6	5408.0
5°	5395.0	5402.9	5418.4	5431.6	5455.0	5465.5	5478.5	5491.6	5494.2	5502.0	5509.9
7.5°	5395.0	5421.1	5439.4	5462.8	5494.2	5512.4	5541.1	5564.7	5575.1	5588.1	5603.8
10°	5384.5	5410.6	5444.5	5470.7	5509.9	5538.6	5567.2	5603.8	5619.4	5640.3	5661.2
12.5°	5363.7	5392.3	5428.9	5462.8	5507.2	5533.3	5569.8	5603.8	5627.3	5656.0	5679.5
15°	5332.4	5366.2	5400.2	5434.1	5481.1	5512.4	5546.4	5585.5	5609.0	5640.3	5661.2
17.5°	5282.8	5319.3	5350.7	5381.9	5426.3	5462.8	5494.2	5530.7	5554.2	5580.3	5609.0
20°	5222.7	5256.7	5290.6	5316.7	5361.1	5392.3	5426.3	5460.2	5478.5	5483.8	5528.1
22.5°	5147.1	5170.5	5196.6	5238.4	5264.5	5293.2	5324.5	5355.8	5374.1	5402.9	5418.4
25°	5021.7	5045.2	5073.9	5092.2	5123.5	5147.1	5178.3	5212.3	5222.7	5243.7	5259.2
27.5°	4846.9	4859.9	4873.0	4888.6	4906.9	4920.0	4938.2	4953.9	4964.3	4974.7	4985.2
30°	4570.2	4570.2	4570.2	4559.7	4567.6	4575.4	4578.0	4575.4	4575.4	4572.8	4572.8
32.5°	4204.8	4183.9	4160.4	4139.6	4131.7	4121.3	4116.0	4108.2	4095.2	4087.4	4089.9
35°	3711.5	3664.5	3635.8	3609.7	3588.9	3573.2	3565.3	3557.5	3554.9	3544.5	3534.0
37.5°	3095.5	3061.6	3040.8	3025.1	3006.8	2991.1	2993.7	2996.4	3004.1	2999.0	3001.5
40°	2443.0	2435.2	2443.0	2424.7	2419.5	2424.7	2437.7	2456.1	2466.5	2477.0	2495.2
42.5°	1858.4	1871.4	1889.7	1889.7	1897.5	1908.0	1923.6	1952.4	1967.9	1986.2	2007.2
45°	1399.0	1414.7	1438.2	1445.9	1451.2	1464.2	1482.6	1506.0	1516.4	1532.1	1550.4
47.5°	1078.0	1088.4	1101.4	1114.5	1127.5	1132.8	1151.0	1151.0	1164.1	1174.6	1179.7
50°	840.4	850.9	861.3	869.1	874.4	882.2	887.4	895.2	897.8	903.1	905.7
52.5°	657.7	670.8	670.8	676.0	683.8	691.6	689.1	691.6	694.2	694.2	702.1
55°	514.2	514.2	522.0	522.0	527.3	524.6	527.3	527.3	527.3	527.3	529.9
57.5°	383.6	386.3	394.2	388.9	386.3	391.5	386.3	391.5	388.9	394.2	386.3
60°	294.9	294.9	297.6	297.6	300.2	300.2	300.2	297.6	297.6	294.9	294.9
62.5°	221.8	224.4	227.1	224.4	224.4	224.4	221.8	221.8	219.3	216.6	216.6
65°	148.8	146.2	151.4	146.2	148.8	148.8	146.2	148.8	141.0	143.5	141.0
67.5°	107.0	104.4	101.8	104.4	101.8	99.2	99.2	101.8	104.4	96.6	96.6
70°	70.5	73.1	70.5	73.1	75.7	75.7	73.1	70.5	73.1	67.9	70.5
72.5°	44.4	44.4	44.4	44.4	44.4	46.9	46.9	46.9	41.8	41.8	39.1
75°	20.8	28.7	23.5	20.8	28.7	28.7	26.1	26.1	23.5	23.5	23.5
77.5°	20.8	15.7	15.7	15.7	15.7	15.7	15.7	15.7	13.0	15.7	13.0
80°	10.4	10.4	10.4	7.8	10.4	10.4	13.0	10.4	10.4	7.8	13.0
82.5°	5.3	5.3	5.3	0.0	2.6	5.3	5.3	2.6	5.3	5.3	2.6
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: P248754

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4
2.5°	5405.4	5402.9	5405.4	5408.0	5405.4	5402.9	5405.4	5408.0	5397.6	5395.0	5400.2
5°	5520.3	5520.3	5525.4	5528.1	5525.4	5520.3	5520.3	5509.9	5502.0	5494.2	5491.6
7.5°	5619.4	5624.7	5629.9	5632.4	5629.9	5624.7	5619.4	5603.8	5588.1	5575.1	5564.7
10°	5679.5	5687.3	5697.8	5702.9	5697.8	5687.3	5679.5	5661.2	5640.3	5619.4	5603.8
12.5°	5705.6	5713.5	5726.5	5723.9	5726.5	5713.5	5705.6	5679.5	5656.0	5627.3	5603.8
15°	5687.3	5697.8	5710.8	5716.0	5710.8	5697.8	5687.3	5661.2	5640.3	5609.0	5585.5
17.5°	5629.9	5645.6	5653.4	5661.2	5653.4	5645.6	5629.9	5609.0	5580.3	5554.2	5530.7
20°	5551.6	5562.1	5572.5	5575.1	5572.5	5562.1	5551.6	5528.1	5483.8	5478.5	5460.2
22.5°	5439.4	5447.2	5470.7	5462.8	5470.7	5447.2	5439.4	5418.4	5402.9	5374.1	5355.8
25°	5277.5	5285.3	5288.0	5290.6	5288.0	5285.3	5277.5	5259.2	5243.7	5222.7	5212.3
27.5°	4998.3	4998.3	5003.4	5006.1	5003.4	4998.3	4998.3	4985.2	4974.7	4964.3	4953.9
30°	4575.4	4575.4	4575.4	4588.5	4575.4	4575.4	4575.4	4572.8	4572.8	4575.4	4575.4
32.5°	4087.4	4082.1	4076.9	4082.1	4076.9	4082.1	4087.4	4089.9	4087.4	4095.2	4108.2
35°	3534.0	3531.4	3539.2	3528.8	3539.2	3531.4	3534.0	3534.0	3544.5	3554.9	3557.5
37.5°	3004.1	2999.0	3009.4	2999.0	3009.4	2999.0	3004.1	3001.5	2999.0	3004.1	2996.4
40°	2500.5	2505.6	2505.6	2526.6	2505.6	2505.6	2500.5	2495.2	2477.0	2466.5	2456.1
42.5°	2017.6	2033.3	2028.0	2043.7	2028.0	2033.3	2017.6	2007.2	1986.2	1967.9	1952.4
45°	1560.8	1571.3	1571.3	1576.5	1571.3	1571.3	1560.8	1550.4	1532.1	1516.4	1506.0
47.5°	1198.0	1198.0	1198.0	1200.7	1198.0	1198.0	1198.0	1179.7	1174.6	1164.1	1151.0
50°	910.9	913.5	916.2	918.8	916.2	913.5	910.9	905.7	903.1	897.8	895.2
52.5°	699.5	702.1	696.9	702.1	696.9	702.1	699.5	702.1	694.2	694.2	691.6
55°	529.9	527.3	529.9	532.4	529.9	527.3	529.9	529.9	527.3	527.3	527.3
57.5°	388.9	383.6	383.6	383.6	383.6	383.6	388.9	386.3	394.2	388.9	391.5
60°	289.7	292.3	292.3	294.9	292.3	292.3	289.7	294.9	294.9	297.6	297.6
62.5°	214.0	221.8	216.6	221.8	216.6	221.8	214.0	216.6	216.6	219.3	221.8
65°	138.4	138.4	138.4	141.0	138.4	138.4	138.4	141.0	143.5	141.0	148.8
67.5°	94.0	96.6	101.8	99.2	101.8	96.6	94.0	96.6	96.6	104.4	101.8
70°	75.7	67.9	67.9	75.7	67.9	67.9	75.7	70.5	67.9	73.1	70.5
72.5°	44.4	39.1	44.4	44.4	44.4	39.1	44.4	39.1	41.8	41.8	46.9
75°	23.5	20.8	18.3	26.1	18.3	20.8	23.5	23.5	23.5	23.5	26.1
77.5°	15.7	13.0	18.3	18.3	18.3	13.0	15.7	13.0	15.7	13.0	15.7
80°	7.8	10.4	7.8	13.0	7.8	10.4	7.8	13.0	7.8	10.4	10.4
82.5°	2.6	5.3	5.3	5.3	5.3	5.3	2.6	2.6	5.3	5.3	2.6
85°	0.0	5.3	2.6	2.6	2.6	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.0	0.0	2.6	0.0	0.0	2.6	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: P248754

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4
2.5°	5400.2	5392.3	5395.0	5379.3	5379.3	5374.1	5376.8	5363.7	5358.5	5353.2	5361.1
5°	5478.5	5465.5	5455.0	5431.6	5418.4	5402.9	5395.0	5374.1	5355.8	5340.1	5337.5
7.5°	5541.1	5512.4	5494.2	5462.8	5439.4	5421.1	5395.0	5366.2	5342.8	5321.9	5306.3
10°	5567.2	5538.6	5509.9	5470.7	5444.5	5410.6	5384.5	5348.0	5316.7	5288.0	5269.7
12.5°	5569.8	5533.3	5507.2	5462.8	5428.9	5392.3	5363.7	5321.9	5285.3	5256.7	5228.0
15°	5546.4	5512.4	5481.1	5434.1	5400.2	5366.2	5332.4	5288.0	5254.1	5220.1	5199.3
17.5°	5494.2	5462.8	5426.3	5381.9	5350.7	5319.3	5282.8	5246.2	5207.0	5170.5	5144.4
20°	5426.3	5392.3	5361.1	5316.7	5290.6	5256.7	5222.7	5183.6	5152.2	5115.7	5087.0
22.5°	5324.5	5293.2	5264.5	5238.4	5196.6	5170.5	5147.1	5102.7	5071.3	5037.4	5006.1
25°	5178.3	5147.1	5123.5	5092.2	5073.9	5045.2	5021.7	4982.6	4953.9	4922.5	4896.4
27.5°	4938.2	4920.0	4906.9	4888.6	4873.0	4859.9	4846.9	4815.5	4794.7	4766.0	4739.9
30°	4578.0	4575.4	4567.6	4559.7	4570.2	4570.2	4570.2	4565.0	4546.7	4525.8	4507.5
32.5°	4116.0	4121.3	4131.7	4139.6	4160.4	4183.9	4204.8	4215.2	4215.2	4202.2	4194.4
35°	3565.3	3573.2	3588.9	3609.7	3635.8	3664.5	3711.5	3722.0	3729.7	3729.7	3719.3
37.5°	2993.7	2991.1	3006.8	3025.1	3040.8	3061.6	3095.5	3103.4	3116.4	3111.2	3100.7
40°	2437.7	2424.7	2419.5	2424.7	2443.0	2435.2	2443.0	2437.7	2437.7	2419.5	2419.5
42.5°	1923.6	1908.0	1897.5	1889.7	1889.7	1871.4	1858.4	1845.4	1837.5	1824.4	1821.8
45°	1482.6	1464.2	1451.2	1445.9	1438.2	1414.7	1399.0	1383.3	1365.0	1359.9	1362.5
47.5°	1151.0	1132.8	1127.5	1114.5	1101.4	1088.4	1078.0	1059.7	1057.0	1046.6	1057.0
50°	887.4	882.2	874.4	869.1	861.3	850.9	840.4	830.0	824.8	824.8	827.3
52.5°	689.1	691.6	683.8	676.0	670.8	670.8	657.7	655.1	655.1	644.7	655.1
55°	527.3	524.6	527.3	522.0	522.0	514.2	514.2	506.3	506.3	498.5	503.7
57.5°	386.3	391.5	386.3	388.9	394.2	386.3	383.6	375.8	381.1	375.8	378.5
60°	300.2	300.2	300.2	297.6	297.6	294.9	294.9	292.3	292.3	287.1	292.3
62.5°	221.8	224.4	224.4	224.4	227.1	224.4	221.8	224.4	221.8	221.8	224.4
65°	146.2	148.8	148.8	146.2	151.4	146.2	148.8	151.4	154.0	151.4	154.0
67.5°	99.2	99.2	101.8	104.4	101.8	104.4	107.0	104.4	107.0	112.3	107.0
70°	73.1	75.7	75.7	73.1	70.5	73.1	70.5	78.3	78.3	78.3	83.5
72.5°	46.9	46.9	44.4	44.4	44.4	44.4	44.4	52.2	46.9	44.4	49.6
75°	26.1	28.7	28.7	20.8	23.5	28.7	20.8	23.5	31.4	26.1	31.4
77.5°	15.7	15.7	15.7	15.7	15.7	15.7	20.8	18.3	18.3	18.3	20.8
80°	13.0	10.4	10.4	7.8	10.4	10.4	10.4	15.7	13.0	13.0	15.7
82.5°	5.3	5.3	2.6	0.0	5.3	5.3	5.3	5.3	5.3	5.3	10.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	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: P248754

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4
2.5°	5340.1	5340.1	5337.5	5332.4	5321.9	5321.9	5319.3	5311.4	5306.3	5303.6	5303.6
5°	5314.0	5303.6	5293.2	5264.5	5264.5	5259.2	5243.7	5233.1	5228.0	5214.9	5209.7
7.5°	5290.6	5259.2	5241.0	5222.7	5199.3	5188.8	5170.5	5162.6	5144.4	5131.4	5123.5
10°	5233.1	5212.3	5188.8	5160.1	5141.8	5121.0	5100.0	5084.4	5060.9	5047.8	5037.4
12.5°	5194.0	5162.6	5141.8	5110.4	5079.2	5060.9	5032.2	5014.0	4990.4	4964.3	4948.6
15°	5157.5	5123.5	5094.9	5060.9	5027.0	5006.1	4972.2	4951.3	4917.4	4891.3	4873.0
17.5°	5102.7	5073.9	5042.6	5000.9	4969.6	4943.5	4906.9	4880.9	4849.5	4815.5	4797.3
20°	5045.2	5011.3	4980.0	4938.2	4906.9	4875.6	4839.1	4810.4	4773.7	4742.5	4721.6
22.5°	4969.6	4930.4	4904.3	4862.5	4826.0	4792.1	4758.2	4724.2	4690.3	4664.2	4640.6
25°	4859.9	4818.1	4789.4	4755.5	4721.6	4695.5	4653.7	4632.9	4599.0	4575.4	4551.9
27.5°	4703.3	4672.0	4645.9	4612.0	4583.3	4562.4	4531.1	4510.2	4481.4	4460.6	4442.3
30°	4473.7	4447.6	4424.1	4390.1	4369.3	4351.0	4322.2	4303.9	4283.1	4259.6	4254.4
32.5°	4165.7	4144.7	4121.3	4097.8	4082.1	4071.7	4048.1	4037.7	4016.9	4003.8	3990.8
35°	3701.0	3682.8	3669.8	3659.4	3654.1	3656.7	3651.5	3661.9	3667.1	3664.5	3667.1
37.5°	3093.0	3082.4	3087.7	3095.5	3121.7	3155.6	3186.9	3233.8	3265.2	3296.6	3325.2
40°	2414.3	2422.2	2443.0	2490.0	2557.8	2633.6	2704.1	2792.8	2881.5	2944.2	3001.5
42.5°	1821.8	1845.4	1897.5	1965.4	2067.2	2179.4	2289.1	2419.5	2526.6	2630.9	2704.1
45°	1370.3	1401.6	1469.5	1563.5	1675.6	1806.1	1944.5	2090.6	2218.6	2325.6	2406.5
47.5°	1067.6	1096.2	1164.1	1263.3	1401.6	1537.4	1680.9	1832.3	1965.4	2069.8	2140.3
50°	843.0	879.5	939.6	1044.0	1182.4	1325.9	1474.7	1623.4	1748.8	1837.5	1900.2
52.5°	663.0	696.9	754.3	864.0	1004.9	1148.4	1286.7	1432.9	1542.5	1628.7	1670.5
55°	514.2	545.5	605.5	696.9	830.0	971.0	1109.2	1234.6	1336.3	1399.0	1438.2
57.5°	391.5	415.0	456.8	548.1	668.2	798.6	916.2	1041.4	1119.8	1164.1	1190.1
60°	297.6	315.9	360.2	430.7	540.3	652.5	751.7	845.7	908.3	944.9	971.0
62.5°	224.4	245.4	276.6	336.7	420.2	511.6	595.1	665.5	717.8	741.3	759.5
65°	154.0	169.6	193.2	240.1	310.6	375.8	441.1	493.3	527.3	553.4	563.8
67.5°	114.8	125.3	138.4	174.9	224.4	276.6	321.0	357.5	394.2	404.6	422.9
70°	86.2	94.0	107.0	133.1	161.8	198.3	235.0	255.8	281.9	300.2	305.4
72.5°	54.8	57.4	70.5	86.2	109.6	133.1	156.6	174.9	190.6	201.0	206.2
75°	31.4	46.9	46.9	62.6	78.3	88.7	104.4	117.4	125.3	133.1	133.1
77.5°	20.8	28.7	31.4	39.1	46.9	60.1	73.1	80.9	88.7	91.3	91.3
80°	18.3	20.8	20.8	28.7	33.9	44.4	52.2	54.8	60.1	62.6	67.9
82.5°	7.8	10.4	13.0	20.8	23.5	23.5	31.4	33.9	39.1	41.8	41.8
85°	2.6	5.3	5.3	7.8	13.0	15.7	18.3	20.8	23.5	23.5	26.1
87.5°	2.6	2.6	0.0	2.6	5.3	5.3	10.4	10.4	10.4	15.7	15.7
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: P248754

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSWOWMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4	5345.4
2.5°	5298.4	5301.0	5290.6	5288.0	5282.8	5285.3	5290.6
5°	5201.9	5204.4	5194.0	5183.6	5183.6	5180.9	5183.6
7.5°	5110.4	5113.1	5097.4	5092.2	5081.8	5084.4	5084.4
10°	5019.1	5019.1	4995.7	4993.0	4985.2	4982.6	4982.6
12.5°	4930.4	4922.5	4904.3	4893.9	4899.1	4883.4	4883.4
15°	4852.1	4839.1	4815.5	4807.7	4794.7	4789.4	4789.4
17.5°	4771.2	4760.7	4739.9	4724.2	4708.5	4706.0	4708.5
20°	4692.8	4682.4	4656.3	4645.9	4632.9	4632.9	4627.6
22.5°	4614.5	4604.1	4580.7	4572.8	4554.6	4554.6	4557.2
25°	4533.6	4525.8	4499.7	4494.5	4491.9	4481.4	4486.7
27.5°	4424.1	4418.8	4397.9	4390.1	4379.7	4377.1	4382.3
30°	4223.0	4215.2	4199.6	4191.8	4173.5	4176.1	4181.3
32.5°	3972.5	3962.1	3941.1	3933.3	3917.7	3912.5	3915.0
35°	3659.4	3651.5	3633.2	3633.2	3617.6	3612.3	3617.6
37.5°	3340.9	3348.7	3340.9	3348.7	3340.9	3338.2	3340.9
40°	3040.8	3069.4	3074.6	3103.4	3093.0	3108.5	3106.0
42.5°	2753.6	2800.5	2818.9	2842.3	2837.2	2847.6	2855.4
45°	2463.8	2503.1	2521.3	2537.0	2539.6	2544.9	2547.4
47.5°	2189.8	2221.2	2223.7	2242.0	2239.4	2239.4	2247.3
50°	1934.1	1954.9	1960.1	1973.2	1962.8	1957.5	1960.1
52.5°	1696.6	1717.4	1712.1	1717.4	1704.4	1699.1	1701.7
55°	1453.8	1464.2	1464.2	1464.2	1448.6	1448.6	1448.6
57.5°	1205.8	1208.5	1203.2	1205.8	1203.2	1187.6	1185.0
60°	978.8	978.8	976.1	978.8	971.0	963.1	963.1
62.5°	764.7	770.0	780.4	770.0	764.7	770.0	762.1
65°	571.6	582.1	579.4	584.6	582.1	582.1	576.8
67.5°	430.7	433.3	435.9	438.5	438.5	438.5	438.5
70°	315.9	323.7	321.0	321.0	321.0	321.0	336.7
72.5°	211.4	221.8	219.3	224.4	224.4	229.7	224.4
75°	143.5	154.0	148.8	156.6	154.0	148.8	161.8
77.5°	96.6	101.8	104.4	107.0	104.4	101.8	104.4
80°	67.9	73.1	70.5	73.1	73.1	73.1	75.7
82.5°	41.8	49.6	46.9	49.6	46.9	49.6	49.6
85°	28.7	31.4	26.1	31.4	28.7	28.7	33.9
87.5°	18.3	15.7	15.7	18.3	15.7	18.3	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)