

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: P249617

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100930 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9006.1 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

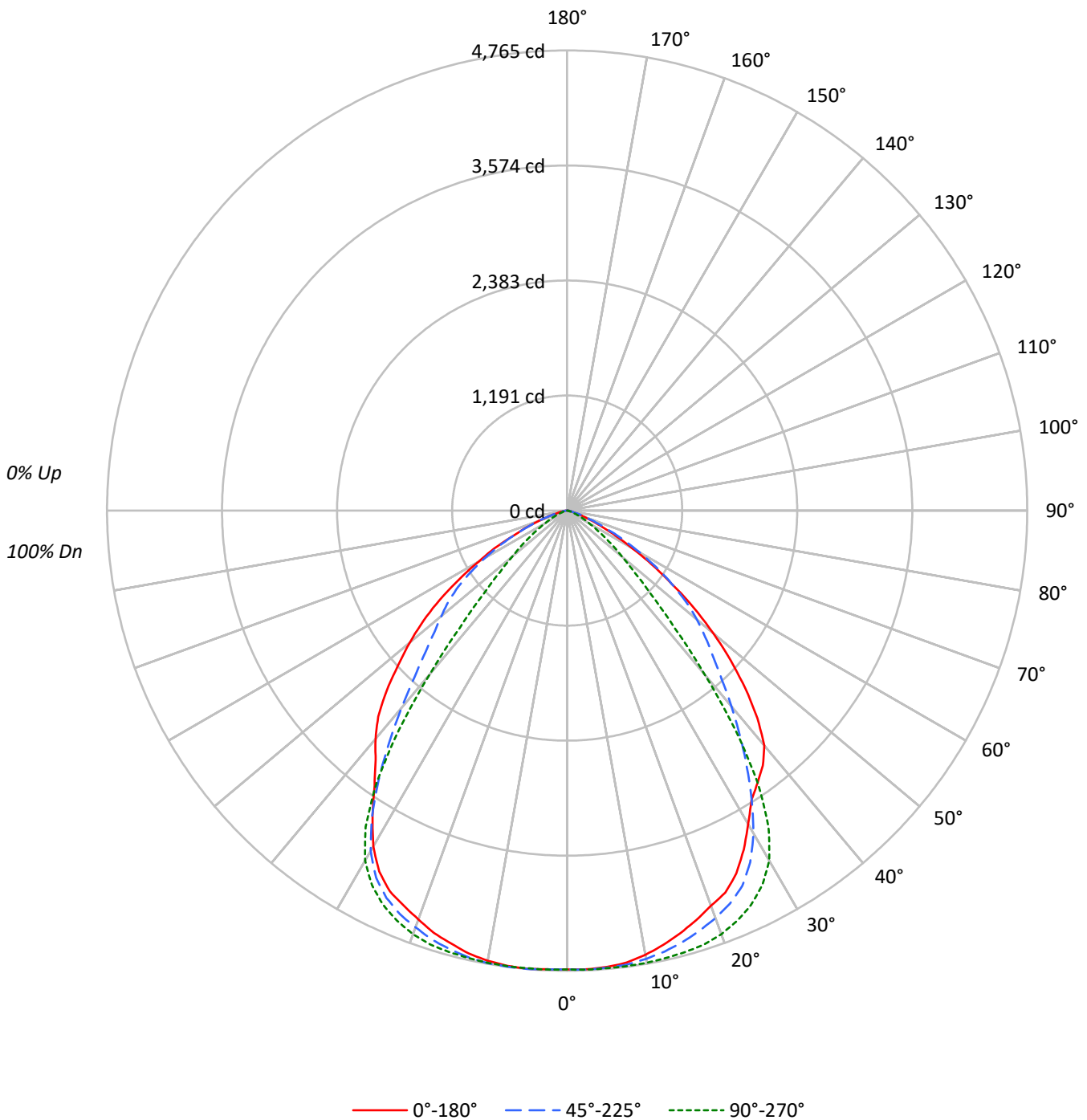
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	453.5	5.0
10°-20°	1317.0	14.6
20°-30°	1999.0	22.2
30°-40°	2099.5	23.3
40°-50°	1574.1	17.5
50°-60°	1010.0	11.2
60°-70°	432.0	4.8
70°-80°	102.1	1.1
80°-90°	19.0	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°	3769.5	41.9
0°-40°	5869.0	65.2
0°-60°	8453.0	93.9
0°-90°	9006.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9006.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4752	4752	4752	4752	4752	
5°	4744	4752	4757	4765	4762	451
15°	4530	4624	4731	4701	4642	1278
25°	4145	4290	4507	4425	4349	1894
35°	3438	3247	3441	3400	3477	2158
45°	2612	2135	1227	2074	2648	2000
55°	1321	1321	457	1377	1609	1198
65°	398	469	145	604	615	425
75°	61	71	20	122	120	89
85°	20	13	10	20	28	22
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°	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8
2.5°	4754.4	4759.4	4757.0	4757.0	4754.4	4757.0	4757.0	4762.0	4762.0	4757.0	4754.4
5°	4744.1	4749.2	4749.2	4744.1	4744.1	4757.0	4749.2	4754.4	4754.4	4751.8	4751.8
7.5°	4721.2	4721.2	4731.4	4723.8	4723.8	4731.4	4728.8	4734.0	4739.0	4741.6	4741.6
10°	4670.2	4675.2	4677.8	4677.8	4680.4	4688.0	4693.2	4703.4	4708.4	4713.6	4716.2
12.5°	4606.4	4614.0	4616.6	4614.0	4621.8	4631.9	4644.8	4657.4	4665.2	4675.2	4683.0
15°	4529.8	4529.8	4535.0	4542.6	4547.8	4563.0	4575.8	4591.1	4611.5	4624.3	4637.0
17.5°	4445.8	4450.8	4458.4	4458.4	4468.8	4494.2	4501.8	4524.8	4547.8	4560.6	4586.0
20°	4354.0	4359.0	4366.6	4371.8	4384.6	4405.0	4420.2	4440.6	4466.2	4489.2	4514.6
22.5°	4282.4	4272.4	4277.4	4282.4	4295.2	4313.2	4331.0	4356.4	4382.0	4405.0	4430.4
25°	4144.8	4147.3	4155.0	4160.0	4175.4	4190.6	4211.0	4241.6	4264.6	4290.2	4318.2
27.5°	3958.6	3961.2	3973.8	3973.8	3986.6	4012.2	4024.8	4050.4	4081.0	4106.4	4139.7
30°	3746.8	3752.0	3752.0	3762.2	3769.8	3782.6	3795.4	3820.8	3836.2	3859.0	3905.0
32.5°	3553.0	3558.1	3555.6	3553.0	3545.4	3542.8	3540.2	3545.4	3550.4	3558.1	3576.0
35°	3438.2	3425.4	3415.4	3397.4	3377.0	3351.6	3328.6	3298.0	3269.8	3247.0	3221.4
37.5°	3328.6	3326.0	3310.6	3285.2	3244.4	3198.4	3145.0	3078.6	3012.2	2940.8	2872.0
40°	3175.6	3167.8	3155.2	3119.4	3073.4	3017.4	2946.0	2864.4	2757.2	2647.6	2535.4
42.5°	2915.4	2917.9	2902.6	2874.5	2831.2	2777.6	2703.6	2614.4	2499.6	2369.5	2224.2
45°	2611.8	2611.8	2606.8	2583.8	2553.2	2509.8	2453.6	2379.8	2267.6	2134.8	1979.2
47.5°	2295.6	2298.2	2290.4	2285.4	2272.6	2244.6	2203.8	2147.6	2068.6	1941.0	1785.4
50°	1974.2	1974.2	1987.0	1984.4	1984.4	1974.2	1956.4	1923.2	1854.4	1752.2	1607.0
52.5°	1652.8	1658.0	1665.6	1675.8	1688.5	1708.9	1688.5	1673.2	1629.8	1550.8	1425.8
55°	1321.2	1326.4	1339.0	1356.9	1372.2	1392.6	1397.8	1397.8	1374.8	1321.2	1226.8
57.5°	1038.2	1030.4	1040.6	1056.0	1076.4	1096.8	1112.0	1130.0	1127.4	1091.6	1015.2
60°	780.4	783.0	790.6	806.0	821.4	839.2	859.6	874.8	882.6	864.7	816.2
62.5°	568.8	568.8	579.0	594.2	602.0	627.4	640.2	647.8	655.4	653.0	622.4
65°	398.0	403.0	408.0	415.8	423.4	438.6	446.4	461.6	466.8	469.4	446.4
67.5°	280.6	273.0	278.0	283.1	290.8	301.0	316.3	316.3	323.9	323.9	308.6
70°	178.6	178.6	181.2	188.8	193.8	196.4	201.6	206.6	214.2	211.6	211.6
72.5°	119.8	117.4	119.8	122.4	125.0	132.6	132.6	135.2	140.3	142.8	132.6
75°	61.2	63.8	68.8	66.4	74.0	68.8	71.4	79.0	76.6	71.4	71.4
77.5°	51.0	51.0	51.0	48.5	53.6	53.6	51.0	56.2	53.6	53.6	51.0
80°	35.6	38.2	35.6	33.2	35.6	33.2	33.2	33.2	33.2	33.2	30.6
82.5°	28.1	23.0	25.6	23.0	25.6	25.6	23.0	20.4	20.4	23.0	20.4
85°	20.4	15.2	17.8	17.8	15.2	15.2	15.2	15.2	15.2	12.8	12.8
87.5°	12.8	7.6	7.6	7.6	10.2	10.2	10.2	7.6	10.2	10.2	5.2
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°	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8
2.5°	4759.4	4757.0	4762.0	4759.4	4759.4	4757.0	4759.4	4757.0	4762.0	4751.8	4754.4
5°	4759.4	4754.4	4757.0	4759.4	4762.0	4757.0	4757.0	4757.0	4762.0	4757.0	4759.4
7.5°	4749.2	4746.7	4754.4	4759.4	4757.0	4754.4	4759.4	4757.0	4762.0	4759.4	4764.6
10°	4728.8	4731.4	4736.6	4744.1	4746.7	4749.2	4754.4	4754.4	4762.0	4751.8	4757.0
12.5°	4698.2	4708.4	4721.2	4726.2	4736.6	4736.6	4741.6	4744.1	4749.2	4746.7	4754.4
15°	4660.0	4672.8	4688.0	4700.8	4713.6	4721.2	4728.8	4731.4	4739.0	4731.4	4734.0
17.5°	4614.0	4629.4	4652.4	4667.6	4688.0	4695.6	4705.8	4711.0	4718.6	4713.6	4716.2
20°	4550.3	4568.2	4593.6	4616.6	4629.4	4647.2	4660.0	4667.6	4672.8	4667.6	4670.2
22.5°	4461.0	4486.6	4519.6	4537.6	4563.0	4578.4	4581.0	4598.8	4611.5	4598.8	4603.9
25°	4356.4	4382.0	4407.4	4445.8	4468.8	4486.6	4504.4	4507.0	4519.6	4517.2	4514.6
27.5°	4183.0	4216.2	4259.5	4290.2	4320.8	4348.8	4369.2	4374.3	4387.0	4382.0	4384.6
30°	3945.8	3981.6	4022.4	4070.8	4114.2	4142.2	4167.8	4185.6	4198.3	4190.6	4188.2
32.5°	3609.2	3644.8	3688.2	3736.6	3787.7	3828.4	3859.0	3882.0	3897.4	3892.2	3879.6
35°	3224.0	3234.2	3262.2	3300.6	3343.8	3387.2	3415.4	3440.8	3458.6	3463.8	3463.8
37.5°	2828.6	2795.5	2775.1	2775.1	2800.6	2818.4	2844.0	2859.2	2887.4	2897.4	2905.2
40°	2446.0	2369.5	2298.2	2244.6	2208.8	2206.4	2206.4	2213.9	2239.4	2272.6	2303.2
42.5°	2104.2	1981.8	1872.2	1772.6	1701.2	1660.4	1642.6	1645.2	1665.6	1696.2	1747.2
45°	1831.4	1678.4	1540.6	1420.6	1323.8	1260.0	1229.4	1226.8	1242.2	1277.8	1334.0
47.5°	1619.6	1456.4	1300.8	1163.0	1058.6	989.6	954.0	943.8	954.0	987.0	1053.4
50°	1443.6	1275.4	1114.6	971.8	859.6	788.2	755.0	742.2	755.0	783.0	849.4
52.5°	1280.4	1107.0	956.4	818.8	698.8	637.6	602.0	594.2	602.0	635.0	688.7
55°	1091.6	943.8	795.8	658.0	553.5	492.2	464.2	456.6	464.2	494.8	551.0
57.5°	905.5	778.0	647.8	522.8	433.6	380.0	354.6	344.3	362.2	382.6	449.0
60°	732.0	630.0	520.3	410.6	336.7	288.2	267.8	265.2	270.4	295.8	341.8
62.5°	574.0	489.8	403.0	313.8	252.6	232.0	206.6	204.0	209.2	224.4	260.2
65°	413.2	359.6	293.4	229.6	181.2	153.0	142.8	145.4	150.4	160.8	193.8
67.5°	288.2	250.0	204.0	160.8	125.0	112.2	102.0	99.4	102.0	119.8	137.8
70°	193.8	170.8	137.8	122.4	86.8	68.8	71.4	63.8	74.0	74.0	89.2
72.5°	127.5	112.2	91.8	71.4	61.2	48.5	48.5	46.0	51.0	53.6	66.4
75°	66.4	51.0	51.0	35.6	25.6	12.8	23.0	20.4	17.8	20.4	25.6
77.5°	46.0	38.2	35.6	28.1	25.6	20.4	20.4	20.4	20.4	23.0	25.6
80°	28.1	28.1	20.4	17.8	15.2	12.8	15.2	15.2	15.2	15.2	17.8
82.5°	17.8	15.2	15.2	12.8	12.8	10.2	10.2	10.2	10.2	10.2	15.2
85°	15.2	10.2	10.2	7.6	10.2	17.8	7.6	10.2	10.2	10.2	7.6
87.5°	5.2	7.6	7.6	7.6	5.2	2.6	5.2	7.6	7.6	12.8	10.2
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°	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8	4751.8
2.5°	4759.4	4762.0	4762.0	4759.4	4759.4	4754.4	4764.6	4757.0	4759.4	4769.6	4762.0
5°	4764.6	4767.1	4767.1	4764.6	4764.6	4764.6	4767.1	4767.1	4764.6	4762.0	4767.1
7.5°	4774.8	4772.2	4772.2	4767.1	4767.1	4762.0	4767.1	4759.4	4764.6	4759.4	4767.1
10°	4762.0	4764.6	4762.0	4759.4	4759.4	4757.0	4757.0	4749.2	4751.8	4744.1	4749.2
12.5°	4754.4	4751.8	4751.8	4746.7	4741.6	4736.6	4734.0	4726.2	4726.2	4708.4	4716.2
15°	4734.0	4736.6	4728.8	4718.6	4713.6	4700.8	4695.6	4685.4	4675.2	4662.6	4665.2
17.5°	4716.2	4708.4	4698.2	4688.0	4667.6	4657.4	4647.2	4631.9	4626.8	4611.5	4606.4
20°	4662.6	4657.4	4644.8	4626.8	4614.0	4591.1	4581.0	4565.6	4552.8	4537.6	4529.8
22.5°	4593.6	4588.6	4573.2	4555.4	4535.0	4524.8	4514.6	4486.6	4473.8	4458.4	4456.0
25°	4507.0	4499.2	4484.0	4463.6	4453.4	4425.4	4415.1	4394.7	4389.6	4374.3	4371.8
27.5°	4374.3	4364.2	4346.2	4320.8	4302.8	4285.0	4274.8	4259.5	4254.4	4239.1	4236.6
30°	4175.4	4162.6	4126.8	4116.8	4086.0	4068.2	4068.2	4047.8	4050.4	4040.2	4040.2
32.5°	3861.6	3841.2	3813.2	3792.8	3772.4	3762.2	3762.2	3754.5	3759.6	3759.6	3764.8
35°	3445.8	3417.8	3402.5	3389.8	3389.8	3400.0	3430.6	3438.2	3453.6	3466.2	3476.6
37.5°	2912.8	2910.2	2928.2	2943.4	2981.6	3025.0	3078.6	3124.6	3167.8	3198.4	3229.0
40°	2336.4	2400.2	2451.2	2522.6	2581.2	2665.4	2762.3	2841.4	2915.4	2969.0	3025.0
42.5°	1823.6	1905.3	2012.4	2117.0	2221.6	2336.4	2464.0	2573.6	2670.6	2744.4	2803.2
45°	1420.6	1532.9	1663.0	1795.6	1930.8	2073.6	2206.4	2318.6	2420.6	2497.0	2555.8
47.5°	1145.2	1267.6	1415.6	1561.0	1714.0	1864.4	2012.4	2109.4	2193.5	2254.8	2308.4
50°	946.2	1076.4	1232.0	1397.8	1550.8	1701.2	1828.8	1923.2	1992.0	2045.6	2078.8
52.5°	790.6	928.4	1094.2	1260.0	1413.0	1550.8	1665.6	1737.0	1793.0	1831.4	1862.0
55°	653.0	785.6	941.2	1096.8	1247.2	1377.4	1471.6	1525.3	1568.6	1591.6	1609.4
57.5°	533.1	655.4	798.4	941.2	1071.2	1178.4	1252.4	1306.0	1326.4	1344.2	1341.6
60°	418.4	533.1	663.2	785.6	897.8	984.5	1038.2	1068.6	1084.0	1091.6	1086.6
62.5°	329.0	433.6	533.1	640.2	721.8	795.8	846.8	846.8	854.4	857.0	864.7
65°	244.8	323.9	410.6	489.8	556.0	604.4	632.6	640.2	650.4	647.8	642.8
67.5°	181.2	239.8	303.5	362.2	408.0	438.6	459.0	477.0	474.4	469.4	466.8
70°	125.0	163.2	219.4	255.0	288.2	318.8	323.9	326.4	329.0	331.6	326.4
72.5°	86.8	114.8	145.4	176.0	196.4	209.2	222.0	224.4	224.4	224.4	222.0
75°	43.4	58.6	86.8	99.4	117.4	122.4	132.6	132.6	140.3	130.0	127.5
77.5°	38.2	46.0	61.2	71.4	79.0	86.8	89.2	97.0	94.4	89.2	91.8
80°	23.0	28.1	38.2	43.4	53.6	56.2	58.6	61.2	58.6	61.2	61.2
82.5°	17.8	20.4	25.6	25.6	33.2	33.2	35.6	35.6	38.2	38.2	38.2
85°	10.2	17.8	15.2	30.6	20.4	20.4	25.6	30.6	25.6	25.6	30.6
87.5°	10.2	10.2	7.6	10.2	10.2	10.2	12.8	15.2	15.2	17.8	15.2
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: P249617

CATALOG NUMBER: LSR8B100D010 EC8B100930 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4751.8	4751.8	4751.8	4751.8
2.5°	4759.4	4764.6	4757.0	4754.4
5°	4767.1	4767.1	4762.0	4762.0
7.5°	4767.1	4767.1	4759.4	4754.4
10°	4746.7	4746.7	4739.0	4734.0
12.5°	4708.4	4708.4	4705.8	4698.2
15°	4660.0	4660.0	4649.8	4642.2
17.5°	4593.6	4598.8	4586.0	4586.0
20°	4522.2	4519.6	4509.6	4504.4
22.5°	4448.4	4443.2	4440.6	4425.4
25°	4369.2	4364.2	4356.4	4348.8
27.5°	4234.0	4231.4	4223.8	4213.6
30°	4027.4	4024.8	4014.6	4014.6
32.5°	3759.6	3757.0	3746.8	3749.4
35°	3481.6	3491.8	3486.6	3476.6
37.5°	3249.4	3257.2	3262.2	3257.2
40°	3055.6	3078.6	3081.2	3086.2
42.5°	2849.0	2879.6	2889.8	2895.0
45°	2601.6	2629.6	2652.6	2647.6
47.5°	2349.1	2369.5	2389.9	2374.6
50°	2106.8	2119.6	2127.2	2127.2
52.5°	1877.2	1877.2	1874.8	1877.2
55°	1614.6	1614.6	1604.4	1609.4
57.5°	1339.0	1344.2	1336.5	1323.8
60°	1084.0	1071.2	1066.2	1058.6
62.5°	844.2	844.2	826.4	849.4
65°	632.6	625.0	617.2	614.6
67.5°	459.0	456.6	449.0	446.4
70°	323.9	313.8	311.2	306.0
72.5°	216.8	216.8	211.6	211.6
75°	132.6	119.8	117.4	119.8
77.5°	91.8	89.2	89.2	86.8
80°	61.2	58.6	63.8	56.2
82.5°	38.2	40.8	38.2	40.8
85°	25.6	30.6	28.1	28.1
87.5°	15.2	15.2	15.2	15.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)