

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: P249185

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249185
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 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9108.1 lumens
Efficiency: N/A
Efficacy: 85.7 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

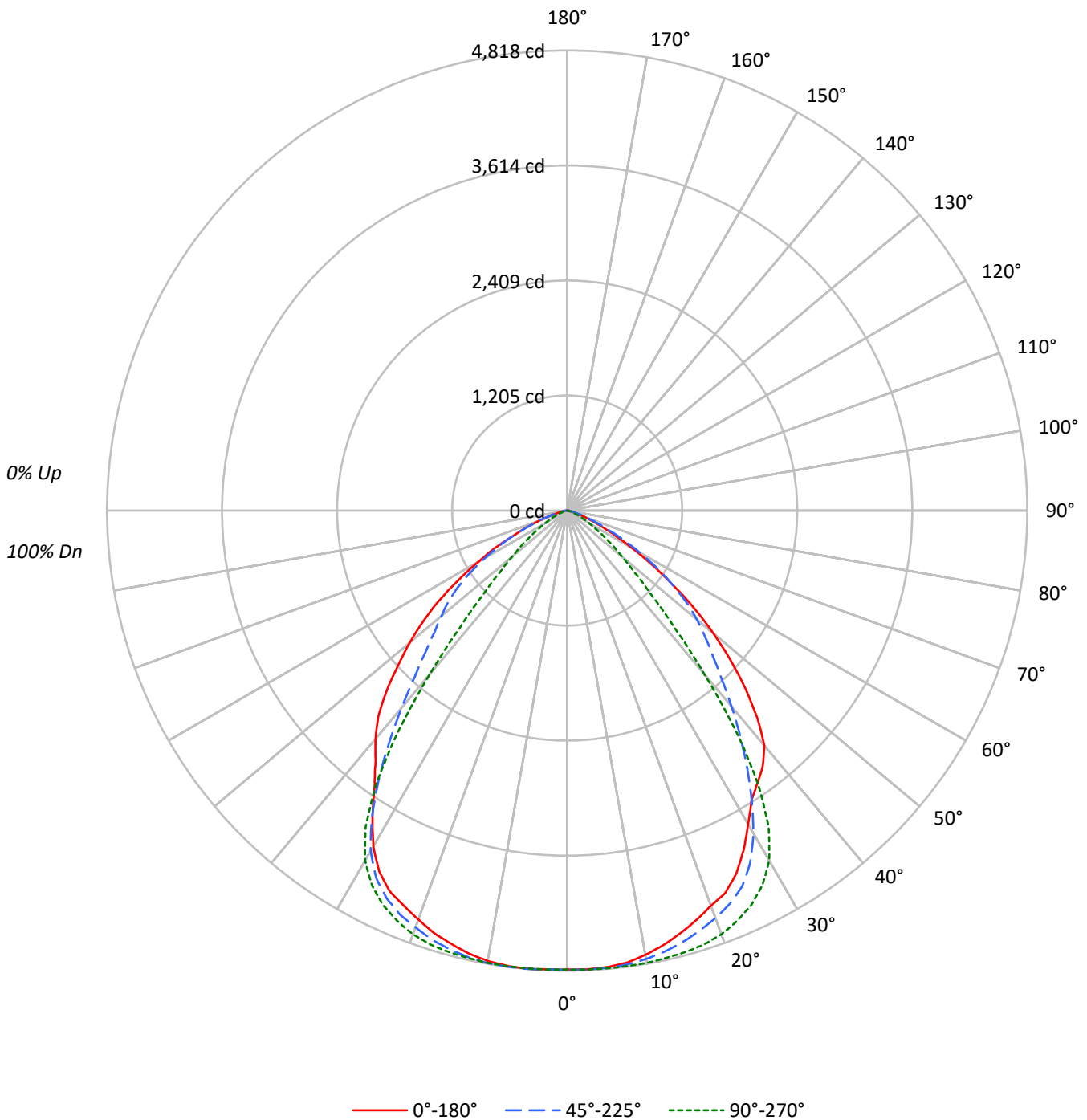
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	458.6	5.0
10°-20°	1331.9	14.6
20°-30°	2021.6	22.2
30°-40°	2123.3	23.3
40°-50°	1591.9	17.5
50°-60°	1021.4	11.2
60°-70°	436.9	4.8
70°-80°	103.2	1.1
80°-90°	19.2	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°	3812.2	41.9
0°-40°	5935.5	65.2
0°-60°	8548.8	93.9
0°-90°	9108.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9108.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4806	4806	4806	4806	4806	
5°	4798	4806	4811	4818	4816	456
15°	4581	4677	4785	4754	4695	1292
25°	4192	4339	4558	4476	4398	1915
35°	3477	3284	3480	3438	3516	2182
45°	2641	2159	1241	2097	2678	2023
55°	1336	1336	462	1393	1628	1212
65°	402	475	147	611	622	430
75°	62	72	21	124	121	90
85°	21	13	10	21	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°	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6
2.5°	4808.2	4813.3	4810.8	4810.8	4808.2	4810.8	4810.8	4815.9	4815.9	4810.8	4808.2
5°	4797.9	4803.0	4803.0	4797.9	4797.9	4810.8	4803.0	4808.2	4808.2	4805.6	4805.6
7.5°	4774.7	4774.7	4785.0	4777.3	4777.3	4785.0	4782.4	4787.6	4792.7	4795.3	4795.3
10°	4723.1	4728.3	4730.8	4730.8	4733.4	4741.2	4746.3	4756.6	4761.8	4766.9	4769.5
12.5°	4658.7	4666.3	4669.0	4666.3	4674.1	4684.4	4697.3	4710.2	4718.0	4728.3	4736.0
15°	4581.2	4581.2	4586.3	4594.1	4599.4	4614.7	4627.6	4643.1	4663.7	4676.7	4689.6
17.5°	4496.1	4501.3	4509.0	4509.0	4519.3	4545.1	4552.8	4576.0	4599.4	4612.1	4638.0
20°	4403.3	4408.3	4416.2	4421.3	4434.2	4454.9	4470.3	4491.0	4516.7	4539.9	4565.7
22.5°	4331.0	4320.7	4325.8	4331.0	4343.9	4361.9	4380.1	4405.8	4431.6	4454.9	4480.6
25°	4191.6	4194.3	4202.1	4207.1	4222.7	4238.2	4258.8	4289.7	4312.9	4338.7	4367.1
27.5°	4003.4	4006.0	4018.9	4018.9	4031.8	4057.6	4070.5	4096.2	4127.3	4153.0	4186.6
30°	3789.3	3794.5	3794.5	3804.8	3812.5	3825.4	3838.3	3864.1	3879.6	3902.8	3949.3
32.5°	3593.3	3598.4	3595.8	3593.3	3585.5	3582.9	3580.4	3585.5	3590.7	3598.4	3616.5
35°	3477.2	3464.2	3454.0	3436.0	3415.4	3389.5	3366.3	3335.3	3307.0	3283.7	3258.0
37.5°	3366.3	3363.7	3348.2	3322.4	3281.2	3234.8	3180.6	3113.5	3046.4	2974.1	2904.5
40°	3211.4	3203.7	3190.8	3154.7	3108.3	3051.6	2979.4	2896.8	2788.4	2677.5	2564.1
42.5°	2948.3	2950.9	2935.5	2907.1	2863.3	2809.1	2734.2	2644.0	2528.0	2396.4	2249.4
45°	2641.4	2641.4	2636.3	2613.1	2582.1	2538.3	2481.4	2406.7	2293.2	2159.0	2001.7
47.5°	2321.6	2324.2	2316.3	2311.3	2298.3	2270.0	2228.7	2171.9	2092.0	1963.0	1805.6
50°	1996.6	1996.6	2009.4	2006.8	2006.8	1996.6	1978.6	1944.9	1875.3	1772.1	1625.1
52.5°	1671.5	1676.7	1684.4	1694.7	1707.6	1728.2	1707.6	1692.1	1648.3	1568.3	1441.9
55°	1336.2	1341.4	1354.3	1372.3	1387.8	1408.4	1413.6	1413.6	1390.4	1336.2	1240.7
57.5°	1049.9	1042.1	1052.5	1068.0	1088.6	1109.2	1124.7	1142.7	1140.2	1104.1	1026.6
60°	789.3	791.9	799.6	815.2	830.7	848.7	869.3	884.8	892.5	874.5	825.4
62.5°	575.3	575.3	585.5	601.0	608.7	634.6	647.5	655.2	663.0	660.4	629.4
65°	402.4	407.6	412.8	420.5	428.2	443.7	451.4	466.9	472.1	474.6	451.4
67.5°	283.7	276.0	281.1	286.3	294.0	304.5	319.8	319.8	327.6	327.6	312.1
70°	180.6	180.6	183.2	190.9	196.1	198.6	203.8	209.0	216.7	214.1	214.1
72.5°	121.3	118.7	121.3	123.9	126.4	134.1	134.1	136.8	141.9	144.5	134.1
75°	61.9	64.5	69.6	67.0	74.8	69.6	72.2	79.9	77.3	72.2	72.2
77.5°	51.6	51.6	51.6	49.0	54.1	54.1	51.6	56.7	54.1	54.1	51.6
80°	36.1	38.7	36.1	33.5	36.1	33.5	33.5	33.5	33.5	33.5	30.9
82.5°	28.4	23.2	25.8	23.2	25.8	25.8	23.2	20.6	20.6	23.2	20.6
85°	20.6	15.5	18.0	18.0	15.5	15.5	15.5	15.5	15.5	12.9	12.9
87.5°	12.9	7.7	7.7	7.7	10.3	10.3	10.3	7.7	10.3	10.3	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°	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6
2.5°	4813.3	4810.8	4815.9	4813.3	4813.3	4810.8	4813.3	4810.8	4815.9	4805.6	4808.2
5°	4813.3	4808.2	4810.8	4813.3	4815.9	4810.8	4810.8	4810.8	4815.9	4810.8	4813.3
7.5°	4803.0	4800.5	4808.2	4813.3	4810.8	4808.2	4813.3	4810.8	4815.9	4813.3	4818.5
10°	4782.4	4785.0	4790.1	4797.9	4800.5	4803.0	4808.2	4808.2	4815.9	4805.6	4810.8
12.5°	4751.5	4761.8	4774.7	4779.8	4790.1	4790.1	4795.3	4797.9	4803.0	4800.5	4808.2
15°	4712.8	4725.7	4741.2	4754.0	4766.9	4774.7	4782.4	4785.0	4792.7	4785.0	4787.6
17.5°	4666.3	4681.7	4705.1	4720.5	4741.2	4748.9	4759.2	4764.4	4772.1	4766.9	4769.5
20°	4601.8	4620.0	4645.6	4669.0	4681.7	4699.8	4712.8	4720.5	4725.7	4720.5	4723.1
22.5°	4511.6	4537.4	4570.9	4588.9	4614.7	4630.2	4632.8	4650.9	4663.7	4650.9	4656.1
25°	4405.8	4431.6	4457.4	4496.1	4519.3	4537.4	4555.4	4558.0	4570.9	4568.3	4565.7
27.5°	4230.4	4263.9	4307.8	4338.7	4369.7	4398.1	4418.8	4423.8	4436.8	4431.6	4434.2
30°	3990.4	4026.6	4067.9	4116.9	4160.8	4189.1	4215.0	4233.0	4245.9	4238.2	4235.6
32.5°	3650.0	3686.2	3730.0	3779.0	3830.6	3871.8	3902.8	3926.1	3941.5	3936.3	3923.5
35°	3260.5	3270.9	3299.2	3337.9	3381.7	3425.6	3454.0	3479.7	3497.7	3503.0	3503.0
37.5°	2860.7	2827.2	2806.5	2806.5	2832.3	2850.4	2876.1	2891.6	2920.0	2930.3	2938.0
40°	2473.7	2396.4	2324.2	2270.0	2233.9	2231.2	2231.2	2239.0	2264.8	2298.3	2329.3
42.5°	2128.1	2004.2	1893.4	1792.8	1720.5	1679.3	1661.2	1663.8	1684.4	1715.4	1766.9
45°	1852.1	1697.3	1558.1	1436.8	1338.8	1274.2	1243.3	1240.7	1256.2	1292.3	1349.1
47.5°	1638.0	1472.9	1315.5	1176.3	1070.6	1000.8	964.7	954.4	964.7	998.3	1065.4
50°	1460.0	1289.8	1127.3	982.8	869.3	797.1	763.5	750.6	763.5	791.9	858.9
52.5°	1294.9	1119.5	967.3	828.0	706.8	644.9	608.7	601.0	608.7	642.2	696.5
55°	1104.1	954.4	804.8	665.5	559.8	497.8	469.5	461.7	469.5	500.4	557.1
57.5°	915.7	786.7	655.2	528.8	438.5	384.3	358.6	348.2	366.2	386.9	454.0
60°	740.3	637.2	526.2	415.3	340.6	291.5	270.8	268.3	273.4	299.2	345.6
62.5°	580.5	495.3	407.6	317.2	255.4	234.7	209.0	206.4	211.5	227.0	263.1
65°	417.9	363.8	296.6	232.2	183.2	154.8	144.5	147.1	152.1	162.5	196.1
67.5°	291.5	252.8	206.4	162.5	126.4	113.4	103.2	100.6	103.2	121.3	139.3
70°	196.1	172.9	139.3	123.9	87.8	69.6	72.2	64.5	74.8	74.8	90.2
72.5°	128.9	113.4	92.8	72.2	61.9	49.0	49.0	46.4	51.6	54.1	67.0
75°	67.0	51.6	51.6	36.1	25.8	12.9	23.2	20.6	18.0	20.6	25.8
77.5°	46.4	38.7	36.1	28.4	25.8	20.6	20.6	20.6	20.6	23.2	25.8
80°	28.4	28.4	20.6	18.0	15.5	12.9	15.5	15.5	15.5	15.5	18.0
82.5°	18.0	15.5	15.5	12.9	12.9	10.3	10.3	10.3	10.3	10.3	15.5
85°	15.5	10.3	10.3	7.7	10.3	18.0	7.7	10.3	10.3	10.3	7.7
87.5°	5.2	7.7	7.7	7.7	5.2	2.6	5.2	7.7	7.7	12.9	10.3
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°	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6	4805.6
2.5°	4813.3	4815.9	4815.9	4813.3	4813.3	4808.2	4818.5	4810.8	4813.3	4823.7	4815.9
5°	4818.5	4821.1	4821.1	4818.5	4818.5	4818.5	4821.1	4821.1	4818.5	4815.9	4821.1
7.5°	4828.8	4826.2	4826.2	4821.1	4821.1	4815.9	4821.1	4813.3	4818.5	4813.3	4821.1
10°	4815.9	4818.5	4815.9	4813.3	4813.3	4810.8	4810.8	4803.0	4805.6	4797.9	4803.0
12.5°	4808.2	4805.6	4805.6	4800.5	4795.3	4790.1	4787.6	4779.8	4779.8	4761.8	4769.5
15°	4787.6	4790.1	4782.4	4772.1	4766.9	4754.0	4748.9	4738.6	4728.3	4715.4	4718.0
17.5°	4769.5	4761.8	4751.5	4741.2	4720.5	4710.2	4699.8	4684.4	4679.2	4663.7	4658.7
20°	4715.4	4710.2	4697.3	4679.2	4666.3	4643.1	4632.8	4617.4	4604.4	4588.9	4581.2
22.5°	4645.6	4640.5	4625.0	4607.0	4586.3	4576.0	4565.7	4537.4	4524.5	4509.0	4506.4
25°	4558.0	4550.3	4534.8	4514.2	4503.8	4475.5	4465.2	4444.4	4439.4	4423.8	4421.3
27.5°	4423.8	4413.6	4395.4	4369.7	4351.6	4333.6	4323.2	4307.8	4302.6	4287.2	4284.6
30°	4222.7	4209.7	4173.6	4163.4	4132.3	4114.3	4114.3	4093.7	4096.2	4085.9	4085.9
32.5°	3905.3	3884.7	3856.4	3835.7	3815.1	3804.8	3804.8	3797.1	3802.2	3802.2	3807.4
35°	3485.0	3456.6	3441.0	3428.1	3428.1	3438.4	3469.5	3477.2	3492.7	3505.6	3515.9
37.5°	2945.8	2943.3	2961.3	2976.8	3015.5	3059.3	3113.5	3159.9	3203.7	3234.8	3265.7
40°	2362.8	2427.3	2478.9	2551.2	2610.5	2695.6	2793.6	2873.6	2948.3	3002.6	3059.3
42.5°	1844.4	1926.9	2035.3	2141.0	2246.7	2362.8	2491.9	2602.7	2700.7	2775.6	2834.9
45°	1436.8	1550.2	1681.8	1816.0	1952.7	2097.2	2231.2	2344.8	2447.9	2525.4	2584.7
47.5°	1158.2	1282.0	1431.6	1578.7	1733.4	1885.6	2035.3	2133.3	2218.3	2280.2	2334.5
50°	957.0	1088.6	1245.9	1413.6	1568.3	1720.5	1849.5	1944.9	2014.7	2068.8	2102.3
52.5°	799.6	938.9	1106.7	1274.2	1429.1	1568.3	1684.4	1756.6	1813.4	1852.1	1883.1
55°	660.4	794.6	951.8	1109.2	1261.3	1393.0	1488.4	1542.6	1586.3	1609.6	1627.7
57.5°	539.1	663.0	807.3	951.8	1083.4	1191.7	1266.5	1320.8	1341.4	1359.4	1356.9
60°	423.1	539.1	670.7	794.6	908.0	995.7	1049.9	1080.8	1096.2	1104.1	1098.8
62.5°	332.7	438.5	539.1	647.5	730.0	804.8	856.4	856.4	864.2	866.8	874.5
65°	247.6	327.6	415.3	495.3	562.3	611.4	639.8	647.5	657.8	655.2	650.1
67.5°	183.2	242.5	306.9	366.2	412.8	443.7	464.3	482.4	479.8	474.6	472.1
70°	126.4	165.1	221.8	257.9	291.5	322.5	327.6	330.1	332.7	335.3	330.1
72.5°	87.8	116.0	147.1	178.0	198.6	211.5	224.4	227.0	227.0	227.0	224.4
75°	43.8	59.3	87.8	100.6	118.7	123.9	134.1	134.1	141.9	131.5	128.9
77.5°	38.7	46.4	61.9	72.2	79.9	87.8	90.2	98.0	95.4	90.2	92.8
80°	23.2	28.4	38.7	43.8	54.1	56.7	59.3	61.9	59.3	61.9	61.9
82.5°	18.0	20.6	25.8	25.8	33.5	33.5	36.1	36.1	38.7	38.7	38.7
85°	10.3	18.0	15.5	30.9	20.6	20.6	25.8	30.9	25.8	25.8	30.9
87.5°	10.3	10.3	7.7	10.3	10.3	10.3	12.9	15.5	15.5	18.0	15.5
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: P249185

CATALOG NUMBER: LSR8B100D010 EC8B100930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4805.6	4805.6	4805.6	4805.6
2.5°	4813.3	4818.5	4810.8	4808.2
5°	4821.1	4821.1	4815.9	4815.9
7.5°	4821.1	4821.1	4813.3	4808.2
10°	4800.5	4800.5	4792.7	4787.6
12.5°	4761.8	4761.8	4759.2	4751.5
15°	4712.8	4712.8	4702.5	4694.7
17.5°	4645.6	4650.9	4638.0	4638.0
20°	4573.5	4570.9	4560.6	4555.4
22.5°	4498.7	4493.5	4491.0	4475.5
25°	4418.8	4413.6	4405.8	4398.1
27.5°	4282.0	4279.4	4271.7	4261.4
30°	4073.0	4070.5	4060.1	4060.1
32.5°	3802.2	3799.6	3789.3	3791.9
35°	3521.1	3531.4	3526.2	3515.9
37.5°	3286.3	3294.1	3299.2	3294.1
40°	3090.3	3113.5	3116.0	3121.2
42.5°	2881.3	2912.2	2922.6	2927.7
45°	2631.1	2659.5	2682.7	2677.5
47.5°	2375.7	2396.4	2417.0	2401.5
50°	2130.7	2143.6	2151.3	2151.3
52.5°	1898.5	1898.5	1895.9	1898.5
55°	1632.8	1632.8	1622.5	1627.7
57.5°	1354.3	1359.4	1351.6	1338.8
60°	1096.2	1083.4	1078.2	1070.6
62.5°	853.9	853.9	835.8	858.9
65°	639.8	632.0	624.2	621.6
67.5°	464.3	461.7	454.0	451.4
70°	327.6	317.2	314.7	309.5
72.5°	219.3	219.3	214.1	214.1
75°	134.1	121.3	118.7	121.3
77.5°	92.8	90.2	90.2	87.8
80°	61.9	59.3	64.5	56.7
82.5°	38.7	41.3	38.7	41.3
85°	25.8	30.9	28.4	28.4
87.5°	15.5	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)