

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: P249284

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249284
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 EC8B100927 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8595.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

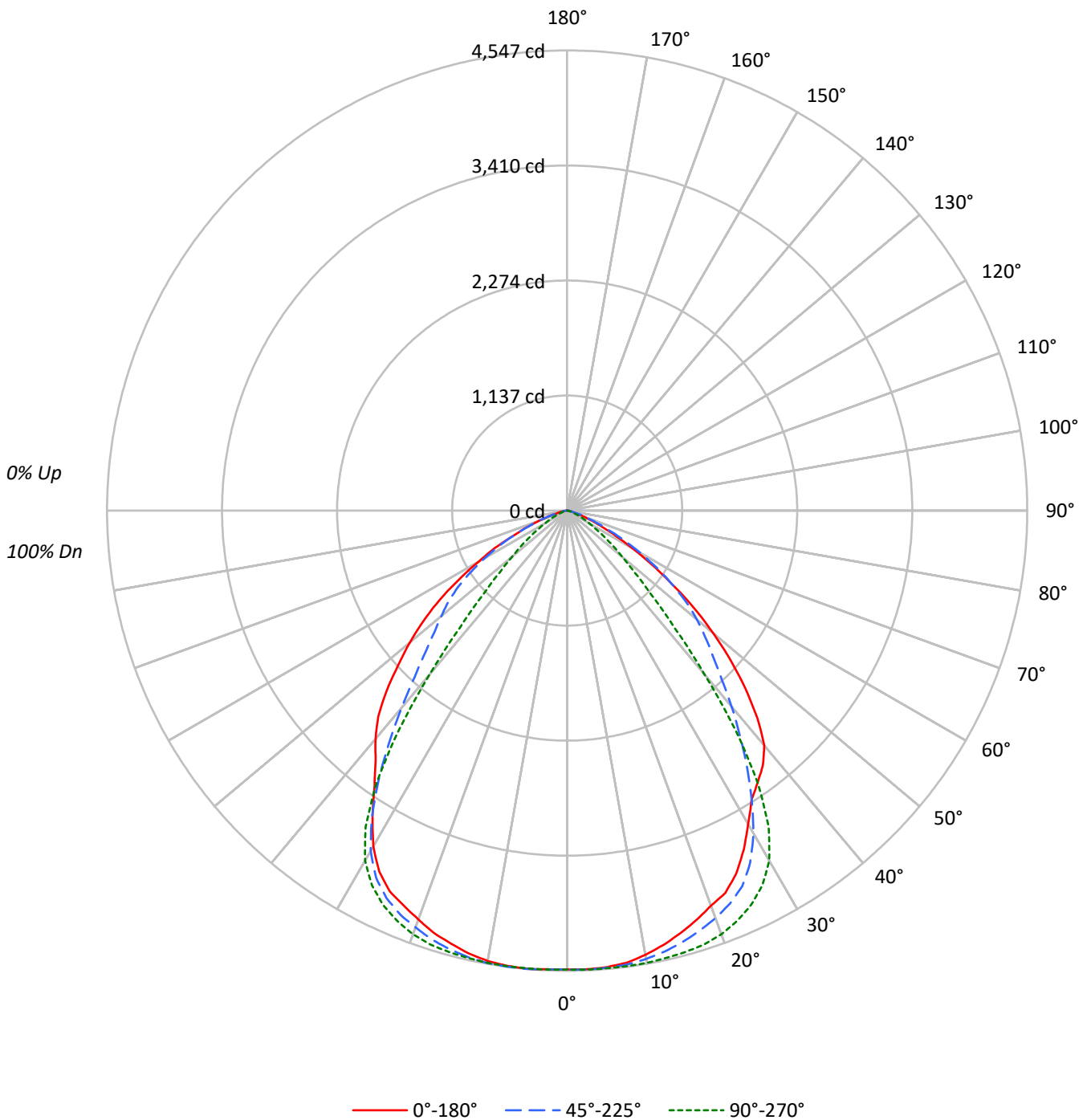
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	432.8	5.0
10°-20°	1256.9	14.6
20°-30°	1907.7	22.2
30°-40°	2003.7	23.3
40°-50°	1502.2	17.5
50°-60°	963.9	11.2
60°-70°	412.3	4.8
70°-80°	97.4	1.1
80°-90°	18.1	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°	3597.4	41.9
0°-40°	5601.1	65.2
0°-60°	8067.1	93.9
0°-90°	8595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8595.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4535	4535	4535	4535	4535	
5°	4528	4535	4540	4547	4545	430
15°	4323	4413	4515	4486	4430	1219
25°	3956	4094	4301	4223	4150	1807
35°	3281	3099	3284	3245	3318	2059
45°	2493	2037	1171	1979	2527	1909
55°	1261	1261	436	1314	1536	1144
65°	380	448	139	577	587	405
75°	58	68	20	117	114	85
85°	20	12	10	20	27	21
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°	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9
2.5°	4537.3	4542.2	4539.8	4539.8	4537.3	4539.8	4539.8	4544.7	4544.7	4539.8	4537.3
5°	4527.6	4532.4	4532.4	4527.6	4527.6	4539.8	4532.4	4537.3	4537.3	4534.9	4534.9
7.5°	4505.7	4505.7	4515.4	4508.1	4508.1	4515.4	4512.9	4517.9	4522.7	4525.2	4525.2
10°	4457.0	4461.9	4464.3	4464.3	4466.7	4474.0	4478.8	4488.6	4493.5	4498.4	4500.8
12.5°	4396.2	4403.5	4405.8	4403.5	4410.8	4420.5	4432.7	4444.9	4452.2	4461.9	4469.2
15°	4323.2	4323.2	4328.0	4335.3	4340.1	4354.8	4366.9	4381.5	4401.0	4413.3	4425.4
17.5°	4242.8	4247.7	4255.0	4255.0	4264.8	4289.1	4296.4	4318.3	4340.1	4352.3	4376.7
20°	4155.2	4160.0	4167.3	4172.2	4184.3	4203.9	4218.4	4237.9	4262.3	4284.2	4308.5
22.5°	4087.0	4077.3	4082.1	4087.0	4099.2	4116.3	4133.2	4157.6	4182.0	4203.9	4228.2
25°	3955.5	3958.0	3965.3	3970.1	3984.8	3999.4	4018.8	4048.1	4069.9	4094.3	4121.1
27.5°	3777.9	3780.3	3792.5	3792.5	3804.6	3828.9	3841.1	3865.5	3894.8	3919.0	3950.7
30°	3575.8	3580.6	3580.6	3590.4	3597.8	3609.9	3622.0	3646.5	3661.0	3682.9	3726.8
32.5°	3390.9	3395.7	3393.2	3390.9	3383.6	3381.1	3378.6	3383.6	3388.4	3395.7	3412.7
35°	3281.3	3269.1	3259.4	3242.4	3222.9	3198.5	3176.7	3147.4	3120.6	3098.7	3074.4
37.5°	3176.7	3174.2	3159.6	3135.3	3096.2	3052.5	3001.4	2938.0	2874.7	2806.6	2741.0
40°	3030.5	3023.2	3011.1	2977.0	2933.2	2879.7	2811.5	2733.6	2631.4	2526.6	2419.5
42.5°	2782.2	2784.7	2770.1	2743.3	2702.0	2650.8	2580.2	2495.0	2385.6	2261.4	2122.6
45°	2492.7	2492.7	2487.7	2465.8	2436.6	2395.2	2341.7	2271.2	2164.0	2037.4	1888.9
47.5°	2190.7	2193.2	2185.9	2181.0	2168.9	2142.1	2103.2	2049.6	1974.2	1852.4	1703.9
50°	1884.0	1884.0	1896.2	1893.8	1893.8	1884.0	1867.0	1835.3	1769.6	1672.3	1533.6
52.5°	1577.4	1582.2	1589.5	1599.3	1611.4	1630.9	1611.4	1596.8	1555.4	1479.9	1360.7
55°	1260.9	1265.7	1277.9	1295.0	1309.6	1329.1	1333.9	1333.9	1312.0	1260.9	1170.9
57.5°	990.8	983.4	993.2	1007.8	1027.2	1046.7	1061.3	1078.3	1076.0	1041.9	968.8
60°	744.9	747.3	754.5	769.3	783.8	800.9	820.4	835.0	842.3	825.2	778.9
62.5°	542.8	542.8	552.6	567.1	574.4	598.8	611.0	618.3	625.6	623.1	593.9
65°	379.8	384.6	389.5	396.8	404.1	418.6	425.9	440.6	445.5	447.9	425.9
67.5°	267.8	260.4	265.4	270.1	277.5	287.2	301.8	301.8	309.2	309.2	294.5
70°	170.4	170.4	172.8	180.1	185.0	187.4	192.4	197.1	204.5	202.0	202.0
72.5°	114.4	111.9	114.4	116.9	119.2	126.6	126.6	129.0	133.9	136.4	126.6
75°	58.4	60.9	65.7	63.3	70.5	65.7	68.2	75.5	73.0	68.2	68.2
77.5°	48.7	48.7	48.7	46.2	51.1	51.1	48.7	53.6	51.1	51.1	48.7
80°	34.1	36.6	34.1	31.6	34.1	31.6	31.6	31.6	31.6	31.6	29.1
82.5°	26.8	21.9	24.4	21.9	24.4	24.4	21.9	19.5	19.5	21.9	19.5
85°	19.5	14.6	17.0	17.0	14.6	14.6	14.6	14.6	14.6	12.2	12.2
87.5°	12.2	7.3	7.3	7.3	9.7	9.7	9.7	7.3	9.7	9.7	4.8
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°	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9
2.5°	4542.2	4539.8	4544.7	4542.2	4542.2	4539.8	4542.2	4539.8	4544.7	4534.9	4537.3
5°	4542.2	4537.3	4539.8	4542.2	4544.7	4539.8	4539.8	4539.8	4544.7	4539.8	4542.2
7.5°	4532.4	4530.0	4537.3	4542.2	4539.8	4537.3	4542.2	4539.8	4544.7	4542.2	4547.0
10°	4512.9	4515.4	4520.2	4527.6	4530.0	4532.4	4537.3	4537.3	4544.7	4534.9	4539.8
12.5°	4483.8	4493.5	4505.7	4510.6	4520.2	4520.2	4525.2	4527.6	4532.4	4530.0	4537.3
15°	4447.2	4459.4	4474.0	4486.3	4498.4	4505.7	4512.9	4515.4	4522.7	4515.4	4517.9
17.5°	4403.5	4418.0	4439.9	4454.6	4474.0	4481.3	4491.0	4496.0	4503.3	4498.4	4500.8
20°	4342.6	4359.7	4384.0	4405.8	4418.0	4435.1	4447.2	4454.6	4459.4	4454.6	4457.0
22.5°	4257.4	4281.8	4313.4	4330.5	4354.8	4369.4	4371.9	4388.8	4401.0	4388.8	4393.7
25°	4157.6	4182.0	4206.3	4242.8	4264.8	4281.8	4298.7	4301.2	4313.4	4310.9	4308.5
27.5°	3992.1	4023.8	4065.1	4094.3	4123.5	4150.3	4169.8	4174.7	4186.8	4182.0	4184.3
30°	3765.7	3799.8	3838.7	3885.0	3926.4	3953.1	3977.4	3994.5	4006.7	3999.4	3996.9
32.5°	3444.4	3478.5	3519.9	3566.0	3614.8	3653.7	3682.9	3704.8	3719.5	3714.5	3702.4
35°	3076.9	3086.5	3113.3	3149.9	3191.2	3232.6	3259.4	3283.6	3300.8	3305.6	3305.6
37.5°	2699.5	2667.9	2648.5	2648.5	2672.8	2689.8	2714.2	2728.7	2755.5	2765.2	2772.6
40°	2334.4	2261.4	2193.2	2142.1	2108.0	2105.5	2105.5	2112.9	2137.2	2168.9	2198.1
42.5°	2008.2	1891.4	1786.7	1691.8	1623.6	1584.7	1567.7	1570.0	1589.5	1618.8	1667.4
45°	1747.8	1601.7	1470.3	1355.9	1263.4	1202.5	1173.3	1170.9	1185.4	1219.5	1273.2
47.5°	1545.8	1389.9	1241.4	1109.9	1010.2	944.4	910.4	900.7	910.4	942.0	1005.3
50°	1377.8	1217.1	1063.8	927.4	820.4	752.2	720.6	708.3	720.6	747.3	810.6
52.5°	1222.0	1056.4	912.8	781.4	667.0	608.5	574.4	567.1	574.4	606.0	657.2
55°	1041.9	900.7	759.5	628.0	528.2	469.8	443.0	435.7	443.0	472.3	525.8
57.5°	864.1	742.4	618.3	499.0	413.8	362.7	338.4	328.6	345.6	365.1	428.4
60°	698.6	601.3	496.6	392.0	321.3	275.1	255.6	253.1	258.0	282.4	326.1
62.5°	547.8	467.3	384.6	299.4	241.0	221.5	197.1	194.7	199.6	214.2	248.3
65°	394.3	343.2	279.9	219.0	172.8	146.0	136.4	138.8	143.5	153.3	185.0
67.5°	275.1	238.5	194.7	153.3	119.2	107.1	97.4	95.0	97.4	114.4	131.4
70°	185.0	163.1	131.4	116.9	82.8	65.7	68.2	60.9	70.5	70.5	85.2
72.5°	121.7	107.1	87.6	68.2	58.4	46.2	46.2	43.9	48.7	51.1	63.3
75°	63.3	48.7	48.7	34.1	24.4	12.2	21.9	19.5	17.0	19.5	24.4
77.5°	43.9	36.6	34.1	26.8	24.4	19.5	19.5	19.5	19.5	21.9	24.4
80°	26.8	26.8	19.5	17.0	14.6	12.2	14.6	14.6	14.6	14.6	17.0
82.5°	17.0	14.6	14.6	12.2	12.2	9.7	9.7	9.7	9.7	9.7	14.6
85°	14.6	9.7	9.7	7.3	9.7	17.0	7.3	9.7	9.7	9.7	7.3
87.5°	4.8	7.3	7.3	7.3	4.8	2.5	4.8	7.3	7.3	12.2	9.7
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°	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9
2.5°	4542.2	4544.7	4544.7	4542.2	4542.2	4537.3	4547.0	4539.8	4542.2	4552.0	4544.7
5°	4547.0	4549.5	4549.5	4547.0	4547.0	4547.0	4549.5	4549.5	4547.0	4544.7	4549.5
7.5°	4556.8	4554.3	4554.3	4549.5	4549.5	4544.7	4549.5	4542.2	4547.0	4542.2	4549.5
10°	4544.7	4547.0	4544.7	4542.2	4542.2	4539.8	4539.8	4532.4	4534.9	4527.6	4532.4
12.5°	4537.3	4534.9	4534.9	4530.0	4525.2	4520.2	4517.9	4510.6	4510.6	4493.5	4500.8
15°	4517.9	4520.2	4512.9	4503.3	4498.4	4486.3	4481.3	4471.5	4461.9	4449.7	4452.2
17.5°	4500.8	4493.5	4483.8	4474.0	4454.6	4444.9	4435.1	4420.5	4415.6	4401.0	4396.2
20°	4449.7	4444.9	4432.7	4415.6	4403.5	4381.5	4371.9	4357.2	4345.0	4330.5	4323.2
22.5°	4384.0	4379.1	4364.4	4347.4	4328.0	4318.3	4308.5	4281.8	4269.6	4255.0	4252.5
25°	4301.2	4293.9	4279.3	4259.8	4250.0	4223.4	4213.6	4194.1	4189.3	4174.7	4172.2
27.5°	4174.7	4164.9	4147.9	4123.5	4106.5	4089.5	4079.7	4065.1	4060.2	4045.6	4043.2
30°	3984.8	3972.6	3938.5	3928.8	3899.6	3882.5	3882.5	3863.0	3865.5	3855.8	3855.8
32.5°	3685.4	3665.9	3639.2	3619.6	3600.1	3590.4	3590.4	3583.1	3588.0	3588.0	3592.9
35°	3288.6	3261.8	3247.2	3235.0	3235.0	3244.7	3274.0	3281.3	3295.9	3308.1	3317.8
37.5°	2779.8	2777.4	2794.5	2809.0	2845.6	2887.0	2938.0	2981.9	3023.2	3052.5	3081.7
40°	2229.8	2290.6	2339.2	2407.4	2463.4	2543.7	2636.2	2711.7	2782.2	2833.4	2887.0
42.5°	1740.4	1818.3	1920.6	2020.4	2120.2	2229.8	2351.5	2456.1	2548.6	2619.2	2675.1
45°	1355.9	1463.0	1587.1	1713.7	1842.6	1979.0	2105.5	2212.6	2310.1	2383.1	2439.1
47.5°	1092.9	1209.8	1351.0	1489.7	1635.8	1779.4	1920.6	2013.1	2093.4	2151.8	2203.0
50°	903.0	1027.2	1175.7	1333.9	1479.9	1623.6	1745.3	1835.3	1901.1	1952.2	1983.8
52.5°	754.5	886.0	1044.2	1202.5	1348.5	1479.9	1589.5	1657.7	1711.2	1747.8	1776.9
55°	623.1	749.7	898.2	1046.7	1190.4	1314.4	1404.4	1455.6	1497.0	1518.9	1536.0
57.5°	508.7	625.6	761.8	898.2	1022.4	1124.7	1195.2	1246.3	1265.7	1282.8	1280.4
60°	399.3	508.7	632.9	749.7	856.8	939.6	990.8	1019.9	1034.6	1041.9	1036.9
62.5°	314.0	413.8	508.7	611.0	688.8	759.5	808.2	808.2	815.4	817.9	825.2
65°	233.7	309.2	392.0	467.3	530.7	576.9	603.7	611.0	620.8	618.3	613.5
67.5°	172.8	228.8	289.7	345.6	389.5	418.6	438.1	455.2	452.8	447.9	445.5
70°	119.2	155.8	209.4	243.4	275.1	304.3	309.2	311.5	314.0	316.5	311.5
72.5°	82.8	109.6	138.8	168.0	187.4	199.6	211.8	214.2	214.2	214.2	211.8
75°	41.4	56.0	82.8	95.0	111.9	116.9	126.6	126.6	133.9	124.1	121.7
77.5°	36.6	43.9	58.4	68.2	75.5	82.8	85.2	92.5	90.0	85.2	87.6
80°	21.9	26.8	36.6	41.4	51.1	53.6	56.0	58.4	56.0	58.4	58.4
82.5°	17.0	19.5	24.4	24.4	31.6	31.6	34.1	34.1	36.6	36.6	36.6
85°	9.7	17.0	14.6	29.1	19.5	19.5	24.4	29.1	24.4	24.4	29.1
87.5°	9.7	9.7	7.3	9.7	9.7	9.7	12.2	14.6	14.6	17.0	14.6
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: P249284

CATALOG NUMBER: LSR8B100D010 EC8B100927 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4534.9	4534.9	4534.9	4534.9
2.5°	4542.2	4547.0	4539.8	4537.3
5°	4549.5	4549.5	4544.7	4544.7
7.5°	4549.5	4549.5	4542.2	4537.3
10°	4530.0	4530.0	4522.7	4517.9
12.5°	4493.5	4493.5	4491.0	4483.8
15°	4447.2	4447.2	4437.6	4430.2
17.5°	4384.0	4388.8	4376.7	4376.7
20°	4315.8	4313.4	4303.7	4298.7
22.5°	4245.3	4240.3	4237.9	4223.4
25°	4169.8	4164.9	4157.6	4150.3
27.5°	4040.8	4038.3	4031.0	4021.3
30°	3843.6	3841.1	3831.4	3831.4
32.5°	3588.0	3585.6	3575.8	3578.3
35°	3322.7	3332.5	3327.5	3317.8
37.5°	3101.2	3108.5	3113.3	3108.5
40°	2916.1	2938.0	2940.5	2945.4
42.5°	2719.0	2748.2	2757.9	2762.8
45°	2482.9	2509.6	2531.6	2526.6
47.5°	2241.9	2261.4	2280.8	2266.2
50°	2010.6	2022.8	2030.2	2030.2
52.5°	1791.6	1791.6	1789.1	1791.6
55°	1540.8	1540.8	1531.1	1536.0
57.5°	1277.9	1282.8	1275.5	1263.4
60°	1034.6	1022.4	1017.4	1010.2
62.5°	805.7	805.7	788.7	810.6
65°	603.7	596.4	589.1	586.6
67.5°	438.1	435.7	428.4	425.9
70°	309.2	299.4	297.0	292.0
72.5°	206.9	206.9	202.0	202.0
75°	126.6	114.4	111.9	114.4
77.5°	87.6	85.2	85.2	82.8
80°	58.4	56.0	60.9	53.6
82.5°	36.6	38.9	36.6	38.9
85°	24.4	29.1	26.8	26.8
87.5°	14.6	14.6	14.6	14.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)