

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: P249267

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249267  
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: LSR8B120D010 EC8B120940 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11079.0 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

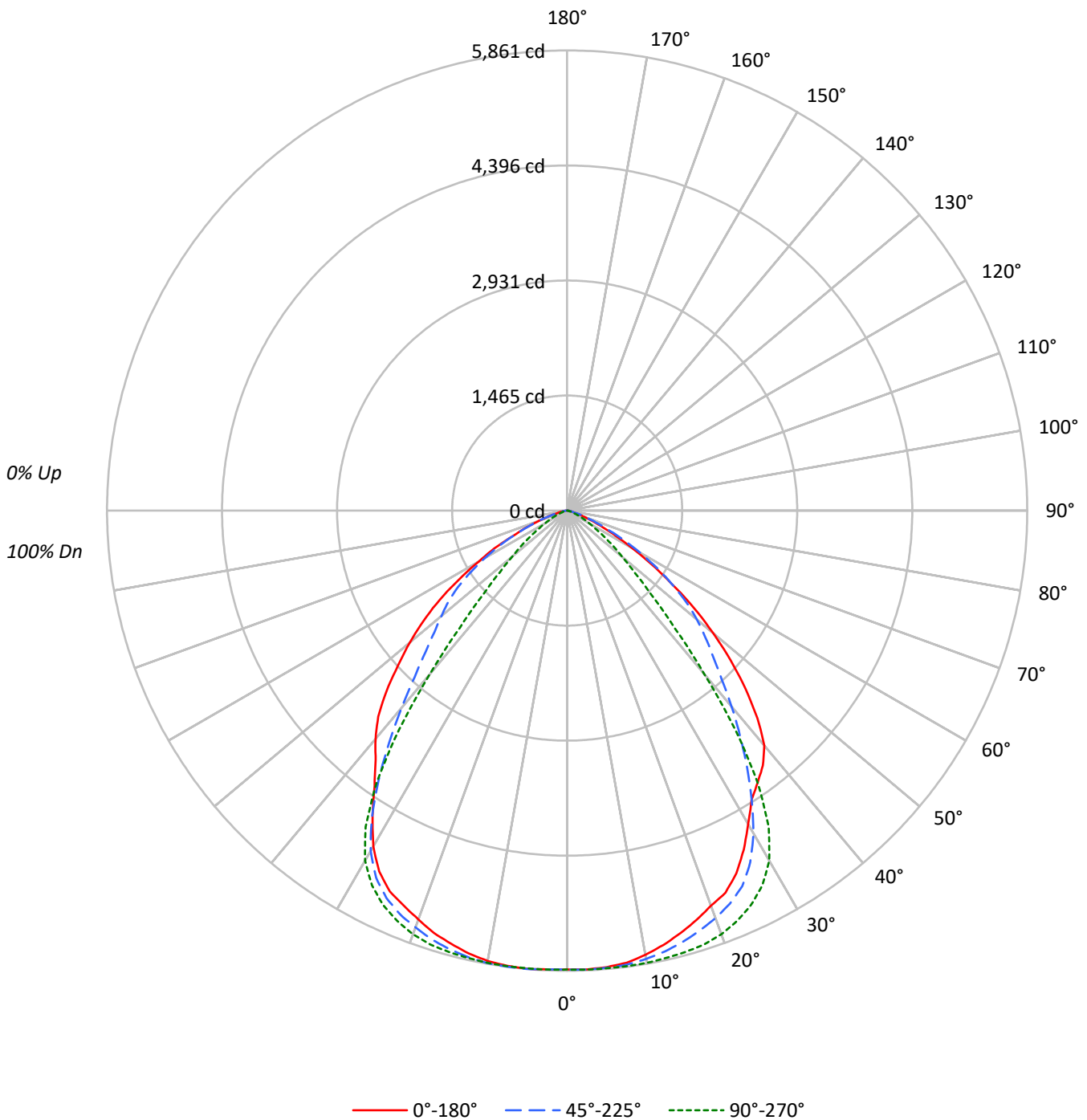
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	180254	180254	180254
5°	180651	181137	181332
10°	179891	183131	182346
15°	177897	185811	182306
20°	175762	188422	181836
25°	173479	188640	182022
30°	164122	183335	175851
35°	159220	159337	160993
40°	157248	109632	152828
45°	140116	65815	142031
50°	116507	43804	125535
55°	87379	30198	106442
60°	59212	20124	80310
65°	35716	13053	55169
70°	19799	7078	33945
75°	8971	2990	17573
80°	7796	3338	12253
85°	8881	4423	12206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	557.9	5.0
10°-20°	1620.1	14.6
20°-30°	2459.1	22.2
30°-40°	2582.7	23.3
40°-50°	1936.4	17.5
50°-60°	1242.4	11.2
60°-70°	531.5	4.8
70°-80°	125.6	1.1
80°-90°	23.4	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°	4637.1	41.9
0°-40°	7219.8	65.2
0°-60°	10398.6	93.9
0°-90°	11079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5846	5846	5846	5846	5846	
5°	5836	5846	5852	5861	5858	554
15°	5572	5689	5820	5783	5711	1572
25°	5099	5278	5544	5444	5350	2329
35°	4230	3994	4233	4182	4277	2655
45°	3213	2626	1509	2551	3257	2461
55°	1625	1625	562	1694	1980	1474
65°	490	577	179	744	756	523
75°	75	88	25	151	148	110
85°	25	16	12	25	34	26
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°	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5
2.5°	5848.6	5854.9	5851.8	5851.8	5848.6	5851.8	5851.8	5858.1	5858.1	5851.8	5848.6
5°	5836.1	5842.4	5842.4	5836.1	5836.1	5851.8	5842.4	5848.6	5848.6	5845.5	5845.5
7.5°	5807.9	5807.9	5820.4	5811.0	5811.0	5820.4	5817.2	5823.5	5829.8	5833.0	5833.0
10°	5745.1	5751.4	5754.5	5754.5	5757.7	5767.0	5773.3	5785.9	5792.1	5798.4	5801.6
12.5°	5666.7	5676.1	5679.2	5676.1	5685.5	5698.0	5713.8	5729.4	5738.9	5751.4	5760.8
15°	5572.5	5572.5	5578.8	5588.2	5594.5	5613.3	5629.0	5647.8	5672.9	5688.6	5704.3
17.5°	5469.0	5475.3	5484.7	5484.7	5497.2	5528.6	5538.0	5566.3	5594.5	5610.2	5641.6
20°	5356.1	5362.3	5371.7	5378.0	5393.7	5418.8	5437.6	5462.7	5494.1	5522.4	5553.7
22.5°	5268.2	5255.6	5261.9	5268.2	5283.9	5305.9	5327.8	5359.1	5390.5	5418.8	5450.2
25°	5098.7	5101.9	5111.3	5117.5	5136.4	5155.2	5180.3	5217.9	5246.2	5277.6	5312.1
27.5°	4869.7	4872.8	4888.5	4888.5	4904.2	4935.6	4951.2	4982.6	5020.3	5051.7	5092.5
30°	4609.3	4615.5	4615.5	4628.1	4637.5	4653.2	4668.9	4700.3	4719.1	4747.3	4803.8
32.5°	4370.8	4377.0	4373.9	4370.8	4361.4	4358.2	4355.1	4361.4	4367.7	4377.0	4399.0
35°	4229.6	4213.9	4201.4	4179.4	4154.3	4122.9	4094.7	4057.0	4022.5	3994.2	3962.9
37.5°	4094.7	4091.5	4072.7	4041.3	3991.1	3934.7	3868.8	3787.2	3705.6	3617.7	3533.1
40°	3906.4	3897.0	3881.3	3837.4	3780.9	3711.9	3624.0	3523.6	3391.8	3256.9	3118.9
42.5°	3586.3	3589.5	3570.7	3536.1	3482.9	3416.9	3325.9	3216.1	3075.0	2914.9	2736.1
45°	3213.0	3213.0	3206.7	3178.4	3140.8	3087.5	3018.4	2927.5	2789.4	2626.2	2434.8
47.5°	2823.9	2827.1	2817.6	2811.4	2795.7	2761.2	2711.0	2641.9	2544.7	2387.8	2196.4
50°	2428.6	2428.6	2444.3	2441.1	2441.1	2428.6	2406.6	2365.8	2281.1	2155.6	1976.8
52.5°	2033.2	2039.5	2048.9	2061.5	2077.1	2102.2	2077.1	2058.3	2005.0	1907.7	1754.0
55°	1625.3	1631.6	1647.3	1669.2	1688.1	1713.2	1719.4	1719.4	1691.2	1625.3	1509.2
57.5°	1277.1	1267.6	1280.2	1299.0	1324.1	1349.2	1368.0	1390.0	1386.8	1342.9	1248.8
60°	960.1	963.3	972.7	991.5	1010.3	1032.3	1057.4	1076.2	1085.7	1063.7	1004.1
62.5°	699.7	699.7	712.2	731.0	740.5	771.9	787.5	797.0	806.4	803.2	765.6
65°	489.5	495.7	502.0	511.5	520.8	539.6	549.1	567.9	574.2	577.3	549.1
67.5°	345.2	335.7	342.0	348.2	357.7	370.3	389.1	389.1	398.5	398.5	379.6
70°	219.6	219.6	222.8	232.2	238.5	241.6	247.9	254.1	263.6	260.4	260.4
72.5°	147.5	144.3	147.5	150.6	153.8	163.1	163.1	166.3	172.6	175.7	163.1
75°	75.3	78.5	84.7	81.6	91.0	84.7	87.8	97.3	94.1	87.8	87.8
77.5°	62.7	62.7	62.7	59.7	65.9	65.9	62.7	69.0	65.9	65.9	62.7
80°	43.9	47.1	43.9	40.8	43.9	40.8	40.8	40.8	40.8	40.8	37.6
82.5°	34.5	28.3	31.4	28.3	31.4	31.4	28.3	25.1	25.1	28.3	25.1
85°	25.1	18.8	22.0	22.0	18.8	18.8	18.8	18.8	18.8	15.7	15.7
87.5°	15.7	9.4	9.4	9.4	12.5	12.5	12.5	9.4	12.5	12.5	6.3
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5
2.5°	5854.9	5851.8	5858.1	5854.9	5854.9	5851.8	5854.9	5851.8	5858.1	5845.5	5848.6
5°	5854.9	5848.6	5851.8	5854.9	5858.1	5851.8	5851.8	5851.8	5858.1	5851.8	5854.9
7.5°	5842.4	5839.2	5848.6	5854.9	5851.8	5848.6	5854.9	5851.8	5858.1	5854.9	5861.2
10°	5817.2	5820.4	5826.7	5836.1	5839.2	5842.4	5848.6	5848.6	5858.1	5845.5	5851.8
12.5°	5779.6	5792.1	5807.9	5814.1	5826.7	5826.7	5833.0	5836.1	5842.4	5839.2	5848.6
15°	5732.6	5748.2	5767.0	5782.8	5798.4	5807.9	5817.2	5820.4	5829.8	5820.4	5823.5
17.5°	5676.1	5694.9	5723.1	5741.9	5767.0	5776.5	5789.0	5795.3	5804.7	5798.4	5801.6
20°	5597.6	5619.6	5651.0	5679.2	5694.9	5716.8	5732.6	5741.9	5748.2	5741.9	5745.1
22.5°	5487.8	5519.2	5560.0	5581.9	5613.3	5632.1	5635.3	5657.2	5672.9	5657.2	5663.5
25°	5359.1	5390.5	5421.9	5469.0	5497.2	5519.2	5541.2	5544.3	5560.0	5556.8	5553.7
27.5°	5145.8	5186.6	5239.9	5277.6	5315.2	5349.8	5374.9	5381.1	5396.8	5390.5	5393.7
30°	4854.0	4898.0	4948.2	5007.7	5061.1	5095.6	5127.0	5148.9	5164.6	5155.2	5152.1
32.5°	4439.8	4483.8	4537.1	4596.7	4659.5	4709.6	4747.3	4775.6	4794.4	4788.1	4772.4
35°	3966.1	3978.6	4013.1	4060.2	4113.5	4166.8	4201.4	4232.7	4254.7	4261.0	4261.0
37.5°	3479.7	3438.9	3413.8	3413.8	3445.2	3467.1	3498.5	3517.3	3551.9	3564.4	3573.8
40°	3009.0	2914.9	2827.1	2761.2	2717.3	2714.1	2714.1	2723.5	2754.9	2795.7	2833.3
42.5°	2588.6	2438.0	2303.1	2180.7	2092.9	2042.6	2020.7	2023.8	2048.9	2086.6	2149.3
45°	2252.9	2064.6	1895.2	1747.7	1628.5	1550.0	1512.4	1509.2	1528.0	1571.9	1641.0
47.5°	1992.4	1791.6	1600.2	1430.8	1302.2	1217.4	1173.5	1161.0	1173.5	1214.3	1295.9
50°	1775.9	1568.9	1371.2	1195.4	1057.4	969.6	928.7	913.1	928.7	963.3	1044.8
52.5°	1575.1	1361.7	1176.6	1007.2	859.7	784.4	740.5	731.0	740.5	781.3	847.2
55°	1342.9	1161.0	978.9	809.5	680.9	605.6	571.0	561.7	571.0	608.7	677.8
57.5°	1113.9	957.0	797.0	643.2	533.4	467.5	436.2	423.6	445.5	470.6	552.2
60°	900.5	775.0	640.1	505.2	414.2	354.5	329.4	326.3	332.6	364.0	420.4
62.5°	706.0	602.4	495.7	385.9	310.6	285.5	254.1	251.0	257.3	276.1	320.1
65°	508.3	442.4	360.8	282.4	222.8	188.3	175.7	178.9	185.1	197.7	238.5
67.5°	354.5	307.5	251.0	197.7	153.8	138.0	125.5	122.4	125.5	147.5	169.4
70°	238.5	210.2	169.4	150.6	106.7	84.7	87.8	78.5	91.0	91.0	109.8
72.5°	156.9	138.0	112.9	87.8	75.3	59.7	59.7	56.5	62.7	65.9	81.6
75°	81.6	62.7	62.7	43.9	31.4	15.7	28.3	25.1	22.0	25.1	31.4
77.5°	56.5	47.1	43.9	34.5	31.4	25.1	25.1	25.1	25.1	28.3	31.4
80°	34.5	34.5	25.1	22.0	18.8	15.7	18.8	18.8	18.8	18.8	22.0
82.5°	22.0	18.8	18.8	15.7	15.7	12.5	12.5	12.5	12.5	12.5	18.8
85°	18.8	12.5	12.5	9.4	12.5	22.0	9.4	12.5	12.5	12.5	9.4
87.5°	6.3	9.4	9.4	9.4	6.3	3.1	6.3	9.4	9.4	15.7	12.5
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°	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5	5845.5
2.5°	5854.9	5858.1	5858.1	5854.9	5854.9	5848.6	5861.2	5851.8	5854.9	5867.5	5858.1
5°	5861.2	5864.3	5864.3	5861.2	5861.2	5861.2	5864.3	5864.3	5861.2	5858.1	5864.3
7.5°	5873.8	5870.6	5870.6	5864.3	5864.3	5858.1	5864.3	5854.9	5861.2	5854.9	5864.3
10°	5858.1	5861.2	5858.1	5854.9	5854.9	5851.8	5851.8	5842.4	5845.5	5836.1	5842.4
12.5°	5848.6	5845.5	5845.5	5839.2	5833.0	5826.7	5823.5	5814.1	5814.1	5792.1	5801.6
15°	5823.5	5826.7	5817.2	5804.7	5798.4	5782.8	5776.5	5763.9	5751.4	5735.7	5738.9
17.5°	5801.6	5792.1	5779.6	5767.0	5741.9	5729.4	5716.8	5698.0	5691.7	5672.9	5666.7
20°	5735.7	5729.4	5713.8	5691.7	5676.1	5647.8	5635.3	5616.5	5600.7	5581.9	5572.5
22.5°	5651.0	5644.7	5625.8	5603.9	5578.8	5566.3	5553.7	5519.2	5503.5	5484.7	5481.5
25°	5544.3	5534.9	5516.1	5491.0	5478.4	5443.9	5431.3	5406.2	5400.0	5381.1	5378.0
27.5°	5381.1	5368.6	5346.6	5315.2	5293.3	5271.3	5258.8	5239.9	5233.7	5214.8	5211.7
30°	5136.4	5120.7	5076.8	5064.2	5026.6	5004.6	5004.6	4979.5	4982.6	4970.1	4970.1
32.5°	4750.5	4725.4	4690.8	4665.7	4640.6	4628.1	4628.1	4618.7	4624.9	4624.9	4631.2
35°	4239.0	4204.5	4185.6	4170.0	4170.0	4182.5	4220.2	4229.6	4248.4	4264.1	4276.7
37.5°	3583.2	3580.1	3602.1	3620.9	3668.0	3721.3	3787.2	3843.7	3897.0	3934.7	3972.3
40°	2874.1	2952.6	3015.3	3103.2	3175.3	3278.9	3398.1	3495.4	3586.3	3652.3	3721.3
42.5°	2243.4	2343.8	2475.7	2604.3	2732.9	2874.1	3031.0	3165.9	3285.2	3376.1	3448.3
45°	1747.7	1885.7	2045.8	2208.9	2375.2	2551.0	2714.1	2852.2	2977.7	3071.8	3144.0
47.5°	1408.8	1559.4	1741.4	1920.3	2108.5	2293.6	2475.7	2594.9	2698.4	2773.7	2839.6
50°	1164.0	1324.1	1515.5	1719.4	1907.7	2092.9	2249.7	2365.8	2450.5	2516.4	2557.2
52.5°	972.7	1142.1	1346.1	1550.0	1738.2	1907.7	2048.9	2136.8	2205.8	2252.9	2290.5
55°	803.2	966.4	1157.8	1349.2	1534.3	1694.3	1810.4	1876.4	1929.6	1957.9	1979.9
57.5°	655.8	806.4	982.1	1157.8	1317.8	1449.6	1540.6	1606.5	1631.6	1653.6	1650.4
60°	514.6	655.8	815.8	966.4	1104.5	1211.1	1277.1	1314.7	1333.5	1342.9	1336.6
62.5°	404.8	533.4	655.8	787.5	888.0	978.9	1041.7	1041.7	1051.1	1054.3	1063.7
65°	301.2	398.5	505.2	602.4	684.0	743.6	778.2	787.5	800.1	797.0	790.7
67.5°	222.8	295.0	373.4	445.5	502.0	539.6	564.8	586.8	583.6	577.3	574.2
70°	153.8	200.8	269.9	313.8	354.5	392.2	398.5	401.6	404.8	407.9	401.6
72.5°	106.7	141.2	178.9	216.5	241.6	257.3	273.0	276.1	276.1	276.1	273.0
75°	53.4	72.2	106.7	122.4	144.3	150.6	163.1	163.1	172.6	160.0	156.9
77.5°	47.1	56.5	75.3	87.8	97.3	106.7	109.8	119.2	116.1	109.8	112.9
80°	28.3	34.5	47.1	53.4	65.9	69.0	72.2	75.3	72.2	75.3	75.3
82.5°	22.0	25.1	31.4	31.4	40.8	40.8	43.9	43.9	47.1	47.1	47.1
85°	12.5	22.0	18.8	37.6	25.1	25.1	31.4	37.6	31.4	31.4	37.6
87.5°	12.5	12.5	9.4	12.5	12.5	12.5	15.7	18.8	18.8	22.0	18.8
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: P249267

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	5845.5	5845.5	5845.5	5845.5
2.5°	5854.9	5861.2	5851.8	5848.6
5°	5864.3	5864.3	5858.1	5858.1
7.5°	5864.3	5864.3	5854.9	5848.6
10°	5839.2	5839.2	5829.8	5823.5
12.5°	5792.1	5792.1	5789.0	5779.6
15°	5732.6	5732.6	5720.0	5710.6
17.5°	5651.0	5657.2	5641.6	5641.6
20°	5563.1	5560.0	5547.5	5541.2
22.5°	5472.1	5465.9	5462.7	5443.9
25°	5374.9	5368.6	5359.1	5349.8
27.5°	5208.6	5205.4	5196.0	5183.5
30°	4954.4	4951.2	4938.7	4938.7
32.5°	4624.9	4621.8	4609.3	4612.4
35°	4282.9	4295.5	4289.2	4276.7
37.5°	3997.4	4006.8	4013.1	4006.8
40°	3758.9	3787.2	3790.3	3796.6
42.5°	3504.8	3542.4	3555.0	3561.2
45°	3200.4	3235.0	3263.2	3256.9
47.5°	2889.8	2914.9	2940.0	2921.2
50°	2591.7	2607.4	2616.8	2616.8
52.5°	2309.4	2309.4	2306.2	2309.4
55°	1986.1	1986.1	1973.6	1979.9
57.5°	1647.3	1653.6	1644.1	1628.5
60°	1333.5	1317.8	1311.5	1302.2
62.5°	1038.6	1038.6	1016.6	1044.8
65°	778.2	768.7	759.3	756.1
67.5°	564.8	561.7	552.2	549.1
70°	398.5	385.9	382.8	376.5
72.5°	266.7	266.7	260.4	260.4
75°	163.1	147.5	144.3	147.5
77.5°	112.9	109.8	109.8	106.7
80°	75.3	72.2	78.5	69.0
82.5°	47.1	50.2	47.1	50.2
85°	31.4	37.6	34.5	34.5
87.5°	18.8	18.8	18.8	18.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)