

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: P248430

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120930 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10700.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

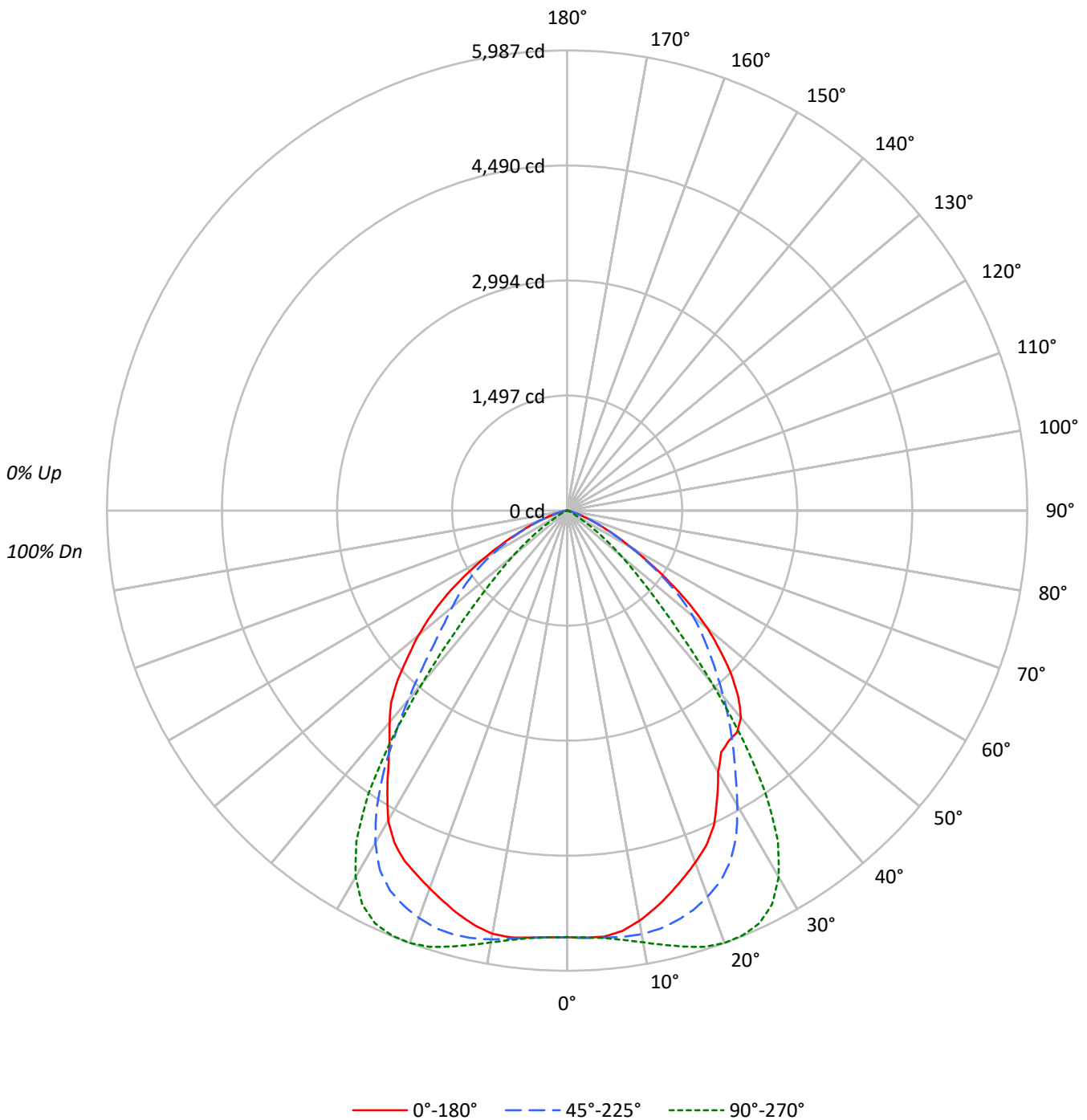
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°	533.8	5.0
10°-20°	1581.3	14.8
20°-30°	2412.5	22.5
30°-40°	2517.5	23.5
40°-50°	1891.0	17.7
50°-60°	1163.5	10.9
60°-70°	473.5	4.4
70°-80°	111.6	1.0
80°-90°	15.4	0.1
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°	4527.6	42.3
0°-40°	7045.1	65.8
0°-60°	10099.6	94.4
0°-90°	10700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10700.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5551	5551	5551	5551	5551	
5°	5563	5577	5583	5577	5577	526
15°	5159	5521	5872	5710	5442	1453
25°	4520	5026	5922	5454	5020	2055
35°	3662	3765	4511	4169	4051	2312
45°	3023	2616	1632	2437	3117	2306
55°	1632	1550	427	1550	1912	1467
65°	510	516	65	692	734	532
75°	88	88	12	156	162	106
85°	9	9	3	21	27	12
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°	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7
2.5°	5565.5	5556.7	5565.5	5565.5	5568.5	5562.6	5565.5	5568.5	5562.6	5562.6	5562.6
5°	5562.6	5556.7	5562.6	5559.6	5565.5	5565.5	5571.5	5571.5	5577.3	5577.3	5586.2
7.5°	5515.4	5503.7	5515.4	5524.3	5530.1	5542.0	5556.7	5568.5	5580.2	5592.1	5606.8
10°	5418.1	5418.1	5427.1	5444.7	5462.4	5483.0	5509.5	5539.0	5568.5	5594.9	5621.5
12.5°	5297.4	5288.5	5306.3	5329.8	5356.4	5388.8	5430.0	5474.2	5521.4	5574.3	5615.6
15°	5159.0	5150.1	5170.7	5194.3	5226.7	5273.9	5324.0	5382.8	5450.6	5521.4	5589.1
17.5°	5017.5	5014.6	5035.2	5067.6	5094.2	5144.2	5209.1	5279.7	5356.4	5450.6	5539.0
20°	4873.2	4870.2	4890.8	4917.4	4952.7	4999.9	5064.7	5147.1	5238.4	5344.6	5447.6
22.5°	4722.9	4725.8	4743.5	4773.0	4802.5	4852.5	4920.3	5002.8	5102.9	5217.8	5332.7
25°	4519.5	4504.9	4528.4	4557.9	4608.0	4649.2	4714.0	4802.5	4905.5	5026.3	5161.9
27.5°	4224.9	4222.0	4242.6	4269.1	4313.3	4363.4	4434.1	4525.5	4634.4	4767.1	4899.7
30°	3930.3	3936.2	3945.1	3971.6	4001.1	4051.2	4121.8	4198.5	4301.6	4428.3	4569.6
32.5°	3730.0	3730.0	3741.8	3759.5	3780.0	3806.6	3856.7	3912.6	3992.2	4080.7	4183.7
35°	3662.2	3650.4	3662.2	3665.1	3668.1	3674.0	3682.8	3700.5	3727.0	3765.3	3803.7
37.5°	3632.8	3624.0	3624.0	3612.2	3597.4	3579.7	3556.1	3529.6	3500.2	3461.9	3432.4
40°	3517.9	3512.0	3506.0	3494.3	3461.9	3426.6	3388.2	3326.3	3258.5	3164.2	3070.1
42.5°	3296.9	3291.0	3288.0	3264.5	3235.0	3193.7	3149.6	3084.8	2999.3	2878.5	2743.0
45°	3022.9	3011.1	3002.3	2981.6	2961.0	2925.7	2884.4	2825.5	2740.1	2616.3	2454.2
47.5°	2704.6	2698.8	2695.8	2687.0	2666.4	2645.7	2619.2	2572.1	2495.5	2377.6	2209.7
50°	2383.6	2371.8	2377.6	2374.7	2365.9	2351.2	2333.5	2301.1	2242.1	2136.1	1982.8
52.5°	2015.2	2015.2	2012.3	2021.2	2024.1	2021.2	2024.1	1988.8	1938.7	1859.1	1729.5
55°	1632.2	1632.2	1641.0	1652.9	1664.7	1667.6	1664.7	1649.9	1614.6	1549.8	1434.8
57.5°	1272.8	1267.0	1284.6	1302.3	1314.0	1325.8	1317.0	1305.2	1284.6	1231.5	1143.2
60°	969.3	969.3	981.1	992.9	1004.6	1016.5	1013.5	1010.6	992.9	957.6	886.8
62.5°	713.0	716.0	716.0	724.8	736.5	748.4	757.1	748.4	739.5	716.0	668.8
65°	509.7	506.7	509.7	518.6	527.4	539.2	545.0	542.1	533.3	515.5	480.2
67.5°	341.8	338.9	350.5	353.6	359.4	371.3	368.4	371.3	368.4	353.6	324.1
70°	223.9	218.0	223.9	220.9	229.8	232.8	238.7	241.6	238.7	229.8	220.9
72.5°	138.4	135.5	138.4	141.5	144.4	147.3	153.2	153.2	150.2	144.4	132.6
75°	88.3	79.5	82.5	76.7	82.5	82.5	88.3	91.4	88.3	88.3	82.5
77.5°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	56.0	58.9	53.0	50.1
80°	26.6	26.6	29.5	29.5	29.5	32.4	29.5	29.5	29.5	32.4	23.5
82.5°	20.6	17.7	17.7	17.7	20.6	17.7	17.7	17.7	17.7	17.7	17.7
85°	8.9	11.8	8.9	5.9	8.9	8.9	11.8	8.9	8.9	8.9	11.8
87.5°	2.9	2.9	0.0	0.0	0.0	2.9	0.0	2.9	2.9	5.9	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7
2.5°	5565.5	5559.6	5559.6	5556.7	5562.6	5556.7	5559.6	5556.7	5556.7	5562.6	5556.7
5°	5586.2	5589.1	5583.1	5580.2	5589.1	5589.1	5589.1	5583.1	5583.1	5586.2	5583.1
7.5°	5615.6	5621.5	5624.4	5627.4	5633.2	5636.3	5636.3	5633.2	5630.3	5639.2	5627.4
10°	5648.0	5656.9	5674.5	5683.4	5698.2	5698.2	5704.0	5704.0	5698.2	5704.0	5701.1
12.5°	5636.3	5689.2	5718.7	5739.3	5759.9	5777.6	5783.6	5786.5	5783.6	5795.3	5783.6
15°	5656.9	5701.1	5748.3	5783.6	5821.8	5842.4	5848.4	5871.9	5877.9	5880.8	5863.2
17.5°	5624.4	5704.0	5754.1	5807.1	5863.2	5901.4	5936.7	5951.5	5954.4	5960.2	5936.7
20°	5550.7	5639.2	5715.8	5792.4	5857.2	5916.1	5945.6	5986.8	5975.0	5998.7	5966.2
22.5°	5450.6	5550.7	5648.0	5748.3	5816.0	5886.7	5948.6	5978.0	5992.8	5992.8	5957.3
25°	5291.6	5409.4	5515.4	5618.6	5721.7	5807.1	5877.9	5922.0	5930.9	5928.0	5886.7
27.5°	5044.1	5170.7	5294.5	5412.3	5539.0	5639.2	5721.7	5774.7	5789.4	5789.4	5745.2
30°	4702.3	4837.8	4958.6	5100.0	5229.7	5341.6	5456.6	5503.7	5530.1	5530.1	5480.1
32.5°	4295.7	4410.6	4522.6	4661.0	4802.5	4929.1	5038.1	5102.9	5135.4	5132.4	5088.2
35°	3853.8	3909.7	3995.1	4098.3	4224.9	4342.8	4448.8	4510.8	4566.7	4563.8	4522.6
37.5°	3411.8	3397.1	3405.9	3444.2	3523.8	3606.3	3688.8	3747.7	3794.8	3815.4	3806.6
40°	2978.7	2902.0	2828.4	2801.9	2807.8	2837.3	2881.4	2925.7	2978.7	3005.3	3016.9
42.5°	2589.7	2460.1	2330.4	2233.3	2177.3	2159.6	2180.2	2194.9	2227.4	2265.7	2304.0
45°	2277.5	2103.7	1932.7	1782.5	1688.2	1632.2	1620.4	1632.2	1649.9	1688.2	1738.3
47.5°	2021.2	1817.8	1626.3	1458.4	1319.9	1246.3	1225.7	1219.8	1237.5	1272.8	1340.5
50°	1794.3	1590.9	1378.8	1184.3	1040.1	957.6	928.1	916.3	936.9	963.4	1025.3
52.5°	1546.8	1346.4	1128.4	939.8	789.6	704.2	671.7	654.1	665.9	701.2	763.1
55°	1278.7	1093.1	895.7	701.2	556.8	477.3	439.0	427.2	439.0	477.3	539.2
57.5°	1010.6	854.4	689.4	506.7	377.1	297.6	259.3	247.5	279.9	294.6	359.4
60°	789.6	663.0	521.5	371.3	259.3	197.4	159.1	150.2	165.0	191.5	244.5
62.5°	592.2	512.6	400.6	265.1	191.5	126.7	106.0	97.3	106.0	126.7	167.9
65°	430.1	368.4	279.9	194.4	129.6	94.3	70.7	64.8	73.6	88.3	123.8
67.5°	294.6	247.5	194.4	135.5	88.3	58.9	50.1	50.1	53.0	64.8	91.4
70°	191.5	162.1	123.8	88.3	58.9	44.2	38.2	32.4	38.2	47.2	61.9
72.5°	120.8	103.1	79.5	61.9	44.2	32.4	26.6	23.5	29.5	35.3	47.2
75°	73.6	56.0	41.3	32.4	23.5	23.5	23.5	11.8	14.7	23.5	29.5
77.5°	44.2	38.2	32.4	26.6	20.6	11.8	11.8	11.8	14.7	17.7	26.6
80°	23.5	20.6	14.7	14.7	11.8	8.9	11.8	8.9	5.9	14.7	17.7
82.5°	14.7	11.8	11.8	11.8	14.7	5.9	8.9	5.9	8.9	11.8	8.9
85°	8.9	8.9	8.9	5.9	14.7	5.9	5.9	2.9	2.9	5.9	5.9
87.5°	0.0	2.9	2.9	0.0	2.9	0.0	2.9	2.9	2.9	2.9	2.9
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°	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7	5550.7
2.5°	5559.6	5556.7	5559.6	5556.7	5556.7	5556.7	5559.6	5559.6	5556.7	5556.7	5562.6
5°	5583.1	5583.1	5583.1	5580.2	5577.3	5577.3	5583.1	5583.1	5574.3	5583.1	5583.1
7.5°	5633.2	5624.4	5633.2	5621.5	5615.6	5618.6	5621.5	5615.6	5609.7	5612.6	5612.6
10°	5698.2	5689.2	5689.2	5680.4	5671.6	5665.6	5659.8	5645.0	5630.3	5627.4	5615.6
12.5°	5774.7	5759.9	5751.2	5733.5	5718.7	5698.2	5680.4	5656.9	5627.4	5606.8	5586.2
15°	5851.3	5827.7	5807.1	5777.6	5745.2	5709.8	5671.6	5633.2	5586.2	5544.9	5509.5
17.5°	5913.2	5880.8	5842.4	5795.3	5748.3	5695.1	5639.2	5583.1	5515.4	5462.4	5421.2
20°	5933.8	5886.7	5836.6	5774.7	5712.8	5639.2	5568.5	5494.8	5418.1	5362.2	5315.1
22.5°	5907.3	5851.3	5789.4	5724.6	5642.1	5562.6	5480.1	5394.6	5326.9	5250.3	5206.0
25°	5833.7	5765.9	5698.2	5621.5	5542.0	5453.6	5365.2	5276.8	5194.3	5153.0	5097.1
27.5°	5683.4	5609.7	5536.1	5456.6	5365.2	5276.8	5185.5	5100.0	5029.4	4973.3	4940.9
30°	5418.1	5332.7	5247.3	5161.9	5082.3	4990.9	4905.5	4834.9	4764.1	4719.9	4687.6
32.5°	5011.5	4935.0	4849.6	4767.1	4693.4	4616.8	4546.1	4484.2	4434.1	4404.6	4381.1
35°	4463.6	4387.0	4322.2	4263.3	4201.4	4169.0	4124.8	4089.4	4068.8	4057.0	4054.1
37.5°	3774.2	3730.0	3709.4	3697.6	3685.7	3677.0	3682.8	3697.6	3709.4	3730.0	3753.6
40°	3037.6	3075.9	3087.7	3128.9	3167.3	3217.4	3273.3	3338.1	3391.1	3459.0	3506.0
42.5°	2365.9	2436.6	2519.1	2607.4	2701.7	2793.1	2905.1	3008.1	3102.4	3187.9	3261.5
45°	1817.8	1926.9	2050.6	2177.3	2304.0	2436.6	2572.1	2698.8	2810.7	2902.0	2978.7
47.5°	1417.2	1538.0	1697.1	1853.2	2006.5	2162.5	2312.8	2445.3	2539.6	2628.1	2695.8
50°	1122.6	1261.0	1434.8	1614.6	1782.5	1947.4	2106.6	2230.3	2324.6	2395.4	2445.3
52.5°	869.1	1034.1	1210.9	1399.5	1579.3	1759.0	1906.3	2021.2	2097.7	2159.6	2197.9
55°	648.2	810.3	998.8	1193.2	1375.9	1549.8	1688.2	1788.4	1856.2	1891.5	1912.1
57.5°	468.5	615.8	804.3	998.8	1163.7	1328.7	1440.7	1532.1	1570.3	1590.9	1599.8
60°	341.8	477.3	645.2	813.2	969.3	1101.9	1199.1	1261.0	1290.5	1302.3	1299.2
62.5°	250.4	368.4	512.6	654.1	780.8	889.7	966.4	1007.6	1022.4	1028.2	1019.4
65°	191.5	282.8	406.6	515.5	612.9	692.3	748.4	774.9	783.7	780.8	774.9
67.5°	141.5	212.2	303.5	386.0	456.7	518.6	548.1	571.6	577.4	568.7	559.8
70°	100.2	156.2	220.9	277.0	329.9	365.3	397.7	400.6	400.6	397.7	391.9
72.5°	70.7	109.0	150.2	188.6	220.9	247.5	259.3	268.1	265.1	262.2	256.4
75°	47.2	67.8	109.0	117.8	147.3	156.2	167.9	167.9	170.8	162.1	162.1
77.5°	29.5	47.2	64.8	76.7	88.3	100.2	106.0	106.0	109.0	106.0	106.0
80°	17.7	29.5	35.3	53.0	53.0	61.9	64.8	67.8	61.9	70.7	61.9
82.5°	11.8	17.7	26.6	26.6	32.4	38.2	38.2	41.3	41.3	38.2	38.2
85°	8.9	11.8	14.7	17.7	17.7	20.6	17.7	17.7	20.6	23.5	20.6
87.5°	2.9	5.9	2.9	5.9	5.9	11.8	8.9	8.9	8.9	11.8	11.8
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: P248430

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5550.7	5550.7	5550.7	5550.7
2.5°	5556.7	5559.6	5556.7	5556.7
5°	5583.1	5580.2	5583.1	5577.3
7.5°	5603.8	5603.8	5600.9	5600.9
10°	5603.8	5592.1	5592.1	5592.1
12.5°	5559.6	5544.9	5536.1	5530.1
15°	5483.0	5456.6	5444.7	5441.8
17.5°	5382.8	5359.3	5344.6	5335.7
20°	5267.9	5244.4	5226.7	5229.7
22.5°	5167.7	5141.2	5129.5	5123.5
25°	5067.6	5035.2	5026.3	5020.5
27.5°	4905.5	4887.9	4879.0	4870.2
30°	4658.1	4649.2	4634.4	4655.1
32.5°	4372.2	4357.6	4345.8	4354.6
35°	4057.0	4048.2	4057.0	4051.2
37.5°	3768.4	3777.1	3789.0	3794.8
40°	3541.5	3573.9	3585.6	3591.5
42.5°	3314.6	3352.9	3376.5	3391.1
45°	3034.7	3072.9	3099.5	3117.2
47.5°	2745.9	2778.4	2804.9	2801.9
50°	2483.7	2501.4	2513.2	2524.9
52.5°	2218.5	2218.5	2221.5	2221.5
55°	1918.0	1912.1	1909.2	1912.1
57.5°	1588.0	1582.2	1579.3	1570.3
60°	1287.6	1269.9	1258.1	1258.1
62.5°	1007.6	987.0	978.2	975.3
65°	757.1	754.2	736.5	733.6
67.5°	548.1	536.2	524.4	527.4
70°	386.0	368.4	368.4	362.4
72.5°	250.4	241.6	238.7	238.7
75°	156.2	156.2	150.2	162.1
77.5°	103.1	103.1	100.2	103.1
80°	61.9	61.9	61.9	58.9
82.5°	38.2	41.3	38.2	38.2
85°	20.6	23.5	17.7	26.6
87.5°	11.8	14.7	11.8	14.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)