

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: P248447

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248447
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: LSR8B100D010 EC8B100830 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10689.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

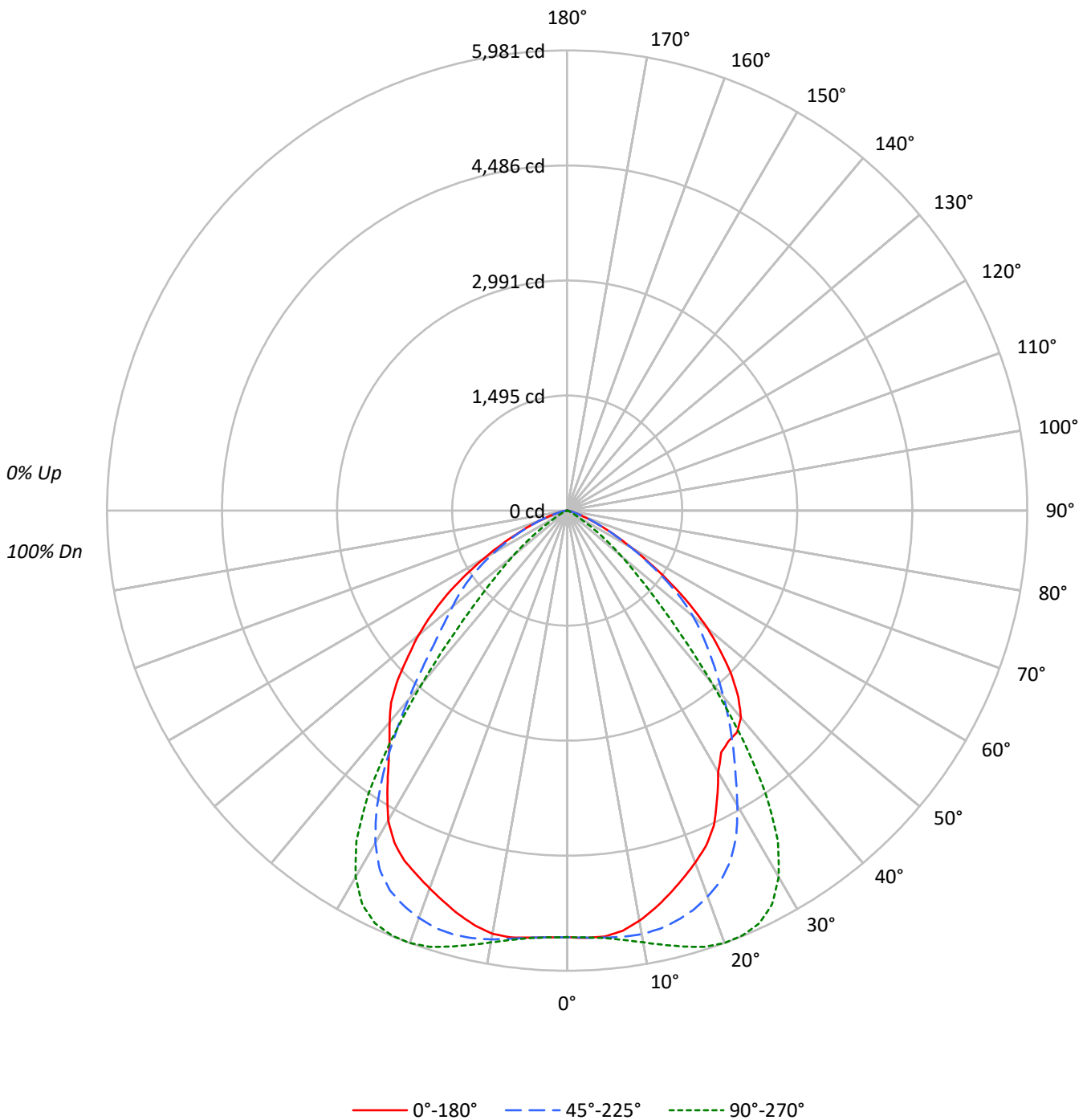
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	170990	170990	170990
5°	172009	172647	172464
10°	169479	178422	174918
15°	164527	187264	173546
20°	159752	196259	171437
25°	153615	201287	170641
30°	139803	195766	165582
35°	137721	169632	152346
40°	141464	117650	144423
45°	131691	71105	135799
50°	114228	43909	121007
55°	87658	22945	102695
60°	59718	9257	77510
65°	37154	4721	53469
70°	20169	2921	32638
75°	10520	1394	19289
80°	4706	1580	10442
85°	3149	1061	9376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.3	5.0
10°-20°	1579.7	14.8
20°-30°	2410.0	22.5
30°-40°	2514.9	23.5
40°-50°	1889.0	17.7
50°-60°	1162.3	10.9
60°-70°	473.0	4.4
70°-80°	111.4	1.0
80°-90°	15.3	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°	4523.0	42.3
0°-40°	7037.9	65.8
0°-60°	10089.2	94.4
0°-90°	10689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10689.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5545	5545	5545	5545	5545	
5°	5557	5572	5578	5572	5572	526
15°	5154	5516	5866	5704	5436	1452
25°	4515	5021	5916	5448	5015	2053
35°	3658	3762	4506	4165	4047	2310
45°	3020	2614	1630	2434	3114	2304
55°	1630	1548	427	1548	1910	1466
65°	509	515	65	692	733	531
75°	88	88	12	156	162	106
85°	9	9	3	21	26	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°	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1
2.5°	5559.8	5551.0	5559.8	5559.8	5562.8	5556.9	5559.8	5562.8	5556.9	5556.9	5556.9
5°	5556.9	5551.0	5556.9	5553.9	5559.8	5559.8	5565.7	5565.7	5571.6	5571.6	5580.4
7.5°	5509.8	5498.0	5509.8	5518.6	5524.5	5536.3	5551.0	5562.8	5574.5	5586.3	5601.0
10°	5412.6	5412.6	5421.5	5439.1	5456.8	5477.4	5503.9	5533.3	5562.8	5589.2	5615.7
12.5°	5292.0	5283.2	5300.8	5324.3	5350.8	5383.3	5424.4	5468.6	5515.7	5568.6	5609.9
15°	5153.7	5144.8	5165.4	5189.0	5221.4	5268.5	5318.5	5377.3	5445.0	5515.7	5583.4
17.5°	5012.4	5009.4	5030.0	5062.4	5088.9	5138.9	5203.7	5274.3	5350.8	5445.0	5533.3
20°	4868.2	4865.2	4885.8	4912.3	4947.6	4994.7	5059.5	5141.9	5233.1	5339.1	5442.1
22.5°	4718.0	4721.0	4738.6	4768.1	4797.5	4847.5	4915.2	4997.7	5097.7	5212.5	5327.3
25°	4514.9	4500.3	4523.8	4553.3	4603.2	4644.4	4709.2	4797.5	4900.5	5021.2	5156.6
27.5°	4220.6	4217.7	4238.3	4264.8	4308.9	4359.0	4429.6	4520.9	4629.7	4762.2	4894.6
30°	3926.3	3932.2	3941.0	3967.5	3996.9	4047.0	4117.6	4194.2	4297.2	4423.7	4565.0
32.5°	3726.1	3726.1	3738.0	3755.6	3776.2	3802.7	3852.8	3908.6	3988.1	4076.4	4179.4
35°	3658.5	3646.7	3658.5	3661.4	3664.4	3670.3	3679.1	3696.8	3723.2	3761.5	3799.7
37.5°	3629.1	3620.2	3620.2	3608.5	3593.7	3576.1	3552.5	3526.0	3496.6	3458.3	3428.9
40°	3514.3	3508.4	3502.5	3490.7	3458.3	3423.0	3384.7	3322.9	3255.2	3161.0	3066.9
42.5°	3293.5	3287.6	3284.7	3261.1	3231.7	3190.5	3146.3	3081.6	2996.3	2875.6	2740.2
45°	3019.8	3008.0	2999.2	2978.6	2957.9	2922.7	2881.5	2822.6	2737.2	2613.6	2451.7
47.5°	2701.9	2696.0	2693.1	2684.3	2663.7	2643.0	2616.6	2569.5	2492.9	2375.2	2207.5
50°	2381.1	2369.4	2375.2	2372.3	2363.4	2348.8	2331.0	2298.7	2239.8	2133.9	1980.8
52.5°	2013.2	2013.2	2010.3	2019.1	2022.0	2019.1	2022.0	1986.7	1936.7	1857.2	1727.7
55°	1630.5	1630.5	1639.4	1651.2	1662.9	1665.9	1662.9	1648.2	1612.9	1548.1	1433.4
57.5°	1271.5	1265.6	1283.3	1300.9	1312.7	1324.5	1315.6	1303.9	1283.3	1230.3	1142.0
60°	968.3	968.3	980.1	991.9	1003.6	1015.4	1012.5	1009.5	991.9	956.5	885.9
62.5°	712.2	715.2	715.2	724.1	735.8	747.6	756.4	747.6	738.7	715.2	668.1
65°	509.2	506.2	509.2	518.0	526.9	538.6	544.5	541.6	532.7	515.1	479.8
67.5°	341.4	338.5	350.2	353.2	359.1	370.9	367.9	370.9	367.9	353.2	323.8
70°	223.7	217.8	223.7	220.7	229.6	232.5	238.4	241.3	238.4	229.6	220.7
72.5°	138.3	135.4	138.3	141.3	144.2	147.1	153.0	153.0	150.1	144.2	132.4
75°	88.3	79.4	82.4	76.6	82.4	82.4	88.3	91.2	88.3	88.3	82.4
77.5°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	56.0	58.8	53.0	50.1
80°	26.5	26.5	29.5	29.5	29.5	32.4	29.5	29.5	29.5	32.4	23.5
82.5°	20.6	17.6	17.6	17.6	20.6	17.6	17.6	17.6	17.6	17.6	17.6
85°	8.9	11.7	8.9	5.9	8.9	8.9	11.7	8.9	8.9	8.9	11.7
87.5°	3.0	3.0	0.0	0.0	0.0	3.0	0.0	3.0	3.0	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°	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1
2.5°	5559.8	5553.9	5553.9	5551.0	5556.9	5551.0	5553.9	5551.0	5551.0	5556.9	5551.0
5°	5580.4	5583.4	5577.5	5574.5	5583.4	5583.4	5583.4	5577.5	5577.5	5580.4	5577.5
7.5°	5609.9	5615.7	5618.7	5621.6	5627.5	5630.5	5630.5	5627.5	5624.6	5633.4	5621.6
10°	5642.2	5651.1	5668.7	5677.6	5692.3	5692.3	5698.2	5698.2	5692.3	5698.2	5695.2
12.5°	5630.5	5683.4	5712.9	5733.5	5754.1	5771.7	5777.6	5780.6	5777.6	5789.4	5777.6
15°	5651.1	5695.2	5742.3	5777.6	5815.9	5836.5	5842.4	5865.9	5871.8	5874.8	5857.1
17.5°	5618.7	5698.2	5748.2	5801.2	5857.1	5895.4	5930.7	5945.4	5948.4	5954.2	5930.7
20°	5545.1	5633.4	5709.9	5786.5	5851.2	5910.1	5939.5	5980.7	5969.0	5992.5	5960.1
22.5°	5445.0	5545.1	5642.2	5742.3	5810.0	5880.7	5942.5	5971.8	5986.6	5986.6	5951.3
25°	5286.1	5403.8	5509.8	5612.8	5715.8	5801.2	5871.8	5916.0	5924.8	5921.9	5880.7
27.5°	5038.9	5165.4	5289.1	5406.8	5533.3	5633.4	5715.8	5768.8	5783.5	5783.5	5739.4
30°	4697.4	4832.8	4953.5	5094.8	5224.3	5336.2	5450.9	5498.0	5524.5	5524.5	5474.5
32.5°	4291.3	4406.1	4517.9	4656.2	4797.5	4924.1	5033.0	5097.7	5130.1	5127.2	5083.0
35°	3849.8	3905.7	3991.1	4094.1	4220.6	4338.4	4444.3	4506.2	4562.0	4559.1	4517.9
37.5°	3408.3	3393.6	3402.4	3440.7	3520.1	3602.6	3685.0	3743.9	3790.9	3811.6	3802.7
40°	2975.7	2899.1	2825.5	2799.1	2804.9	2834.4	2878.5	2922.7	2975.7	3002.2	3013.9
42.5°	2587.1	2457.6	2328.1	2231.0	2175.1	2157.4	2178.0	2192.7	2225.1	2263.3	2301.7
45°	2275.2	2101.5	1930.8	1780.7	1686.5	1630.5	1618.8	1630.5	1648.2	1686.5	1736.5
47.5°	2019.1	1816.0	1624.7	1456.9	1318.6	1245.0	1224.4	1218.5	1236.2	1271.5	1339.2
50°	1792.4	1589.3	1377.5	1183.2	1039.0	956.5	927.1	915.3	935.9	962.4	1024.2
52.5°	1545.2	1345.1	1127.3	938.9	788.8	703.5	671.1	653.4	665.1	700.5	762.3
55°	1277.4	1091.9	894.7	700.5	556.3	476.8	438.5	426.8	438.5	476.8	538.6
57.5°	1009.5	853.5	688.7	506.2	376.7	297.3	259.0	247.2	279.6	294.3	359.1
60°	788.8	662.3	521.0	370.9	259.0	197.2	158.9	150.1	164.8	191.3	244.3
62.5°	591.6	512.1	400.3	264.9	191.3	126.5	105.9	97.1	105.9	126.5	167.8
65°	429.7	367.9	279.6	194.2	129.5	94.2	70.6	64.7	73.6	88.3	123.7
67.5°	294.3	247.2	194.2	135.4	88.3	58.8	50.1	50.1	53.0	64.7	91.2
70°	191.3	161.9	123.7	88.3	58.8	44.1	38.2	32.4	38.2	47.1	61.8
72.5°	120.7	103.0	79.4	61.8	44.1	32.4	26.5	23.5	29.5	35.3	47.1
75°	73.6	56.0	41.2	32.4	23.5	23.5	23.5	11.7	14.7	23.5	29.5
77.5°	44.1	38.2	32.4	26.5	20.6	11.7	11.7	11.7	14.7	17.6	26.5
80°	23.5	20.6	14.7	14.7	11.7	8.9	11.7	8.9	5.9	14.7	17.6
82.5°	14.7	11.7	11.7	11.7	14.7	5.9	8.9	5.9	8.9	11.7	8.9
85°	8.9	8.9	8.9	5.9	14.7	5.9	5.9	3.0	3.0	5.9	5.9
87.5°	0.0	3.0	3.0	0.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1	5545.1
2.5°	5553.9	5551.0	5553.9	5551.0	5551.0	5551.0	5553.9	5553.9	5551.0	5551.0	5556.9
5°	5577.5	5577.5	5577.5	5574.5	5571.6	5571.6	5577.5	5577.5	5568.6	5577.5	5577.5
7.5°	5627.5	5618.7	5627.5	5615.7	5609.9	5612.8	5615.7	5609.9	5604.0	5606.9	5606.9
10°	5692.3	5683.4	5683.4	5674.6	5665.8	5659.9	5654.0	5639.3	5624.6	5621.6	5609.9
12.5°	5768.8	5754.1	5745.3	5727.6	5712.9	5692.3	5674.6	5651.1	5621.6	5601.0	5580.4
15°	5845.3	5821.8	5801.2	5771.7	5739.4	5704.0	5665.8	5627.5	5580.4	5539.2	5503.9
17.5°	5907.1	5874.8	5836.5	5789.4	5742.3	5689.3	5633.4	5577.5	5509.8	5456.8	5415.6
20°	5927.7	5880.7	5830.6	5768.8	5707.0	5633.4	5562.8	5489.2	5412.6	5356.8	5309.7
22.5°	5901.3	5845.3	5783.5	5718.8	5636.3	5556.9	5474.5	5389.1	5321.4	5244.9	5200.8
25°	5827.7	5760.0	5692.3	5615.7	5536.3	5448.0	5359.7	5271.4	5189.0	5147.8	5091.9
27.5°	5677.6	5604.0	5530.4	5450.9	5359.7	5271.4	5180.2	5094.8	5024.2	4968.2	4935.9
30°	5412.6	5327.3	5242.0	5156.6	5077.1	4985.9	4900.5	4829.9	4759.2	4715.1	4682.7
32.5°	5006.5	4930.0	4844.6	4762.2	4688.7	4612.1	4541.4	4479.7	4429.6	4400.2	4376.6
35°	4459.1	4382.5	4317.8	4258.9	4197.1	4164.7	4120.6	4085.2	4064.6	4052.9	4049.9
37.5°	3770.3	3726.1	3705.6	3693.8	3682.0	3673.2	3679.1	3693.8	3705.6	3726.1	3749.7
40°	3034.5	3072.7	3084.5	3125.7	3164.0	3214.0	3270.0	3334.7	3387.7	3455.4	3502.5
42.5°	2363.4	2434.1	2516.5	2604.8	2699.0	2790.2	2902.1	3005.0	3099.2	3184.6	3258.2
45°	1816.0	1924.9	2048.5	2175.1	2301.7	2434.1	2569.5	2696.0	2807.9	2899.1	2975.7
47.5°	1415.7	1536.4	1695.3	1851.3	2004.4	2160.4	2310.4	2442.9	2537.1	2625.4	2693.1
50°	1121.4	1259.7	1433.4	1612.9	1780.7	1945.5	2104.4	2228.1	2322.3	2392.9	2442.9
52.5°	868.2	1033.1	1209.7	1398.1	1577.6	1757.1	1904.3	2019.1	2095.6	2157.4	2195.6
55°	647.5	809.4	997.8	1192.0	1374.5	1548.1	1686.5	1786.6	1854.3	1889.6	1910.2
57.5°	468.0	615.2	803.5	997.8	1162.6	1327.4	1439.3	1530.5	1568.7	1589.3	1598.2
60°	341.4	476.8	644.6	812.3	968.3	1100.8	1197.9	1259.7	1289.2	1300.9	1298.0
62.5°	250.2	367.9	512.1	653.4	779.9	888.8	965.4	1006.6	1021.3	1027.2	1018.4
65°	191.3	282.5	406.2	515.1	612.2	691.6	747.6	774.1	782.9	779.9	774.1
67.5°	141.3	211.9	303.2	385.6	456.2	518.0	547.5	571.0	576.9	568.1	559.2
70°	100.1	156.0	220.7	276.7	329.6	365.0	397.3	400.3	400.3	397.3	391.5
72.5°	70.6	108.9	150.1	188.4	220.7	247.2	259.0	267.8	264.9	261.9	256.1
75°	47.1	67.7	108.9	117.7	147.1	156.0	167.8	167.8	170.7	161.9	161.9
77.5°	29.5	47.1	64.7	76.6	88.3	100.1	105.9	105.9	108.9	105.9	105.9
80°	17.6	29.5	35.3	53.0	53.0	61.8	64.7	67.7	61.8	70.6	61.8
82.5°	11.7	17.6	26.5	26.5	32.4	38.2	38.2	41.2	41.2	38.2	38.2
85°	8.9	11.7	14.7	17.6	17.6	20.6	17.6	17.6	20.6	23.5	20.6
87.5°	3.0	5.9	3.0	5.9	5.9	11.7	8.9	8.9	8.9	11.7	11.7
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: P248447

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5545.1	5545.1	5545.1	5545.1
2.5°	5551.0	5553.9	5551.0	5551.0
5°	5577.5	5574.5	5577.5	5571.6
7.5°	5598.1	5598.1	5595.1	5595.1
10°	5598.1	5586.3	5586.3	5586.3
12.5°	5553.9	5539.2	5530.4	5524.5
15°	5477.4	5450.9	5439.1	5436.2
17.5°	5377.3	5353.8	5339.1	5330.2
20°	5262.6	5239.0	5221.4	5224.3
22.5°	5162.5	5136.0	5124.2	5118.3
25°	5062.4	5030.0	5021.2	5015.3
27.5°	4900.5	4882.9	4874.0	4865.2
30°	4653.3	4644.4	4629.7	4650.3
32.5°	4367.8	4353.1	4341.3	4350.2
35°	4052.9	4044.0	4052.9	4047.0
37.5°	3764.5	3773.2	3785.1	3790.9
40°	3537.8	3570.2	3582.0	3587.8
42.5°	3311.2	3349.4	3373.0	3387.7
45°	3031.5	3069.8	3096.3	3114.0
47.5°	2743.1	2775.5	2802.0	2799.1
50°	2481.2	2498.8	2510.6	2522.4
52.5°	2216.2	2216.2	2219.2	2219.2
55°	1916.1	1910.2	1907.2	1910.2
57.5°	1586.4	1580.6	1577.6	1568.7
60°	1286.2	1268.6	1256.8	1256.8
62.5°	1006.6	986.0	977.2	974.2
65°	756.4	753.4	735.8	732.8
67.5°	547.5	535.7	523.9	526.9
70°	385.6	367.9	367.9	362.0
72.5°	250.2	241.3	238.4	238.4
75°	156.0	156.0	150.1	161.9
77.5°	103.0	103.0	100.1	103.0
80°	61.8	61.8	61.8	58.8
82.5°	38.2	41.2	38.2	38.2
85°	20.6	23.5	17.6	26.5
87.5°	11.7	14.7	11.7	14.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)