

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: P249765

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100950 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10603.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

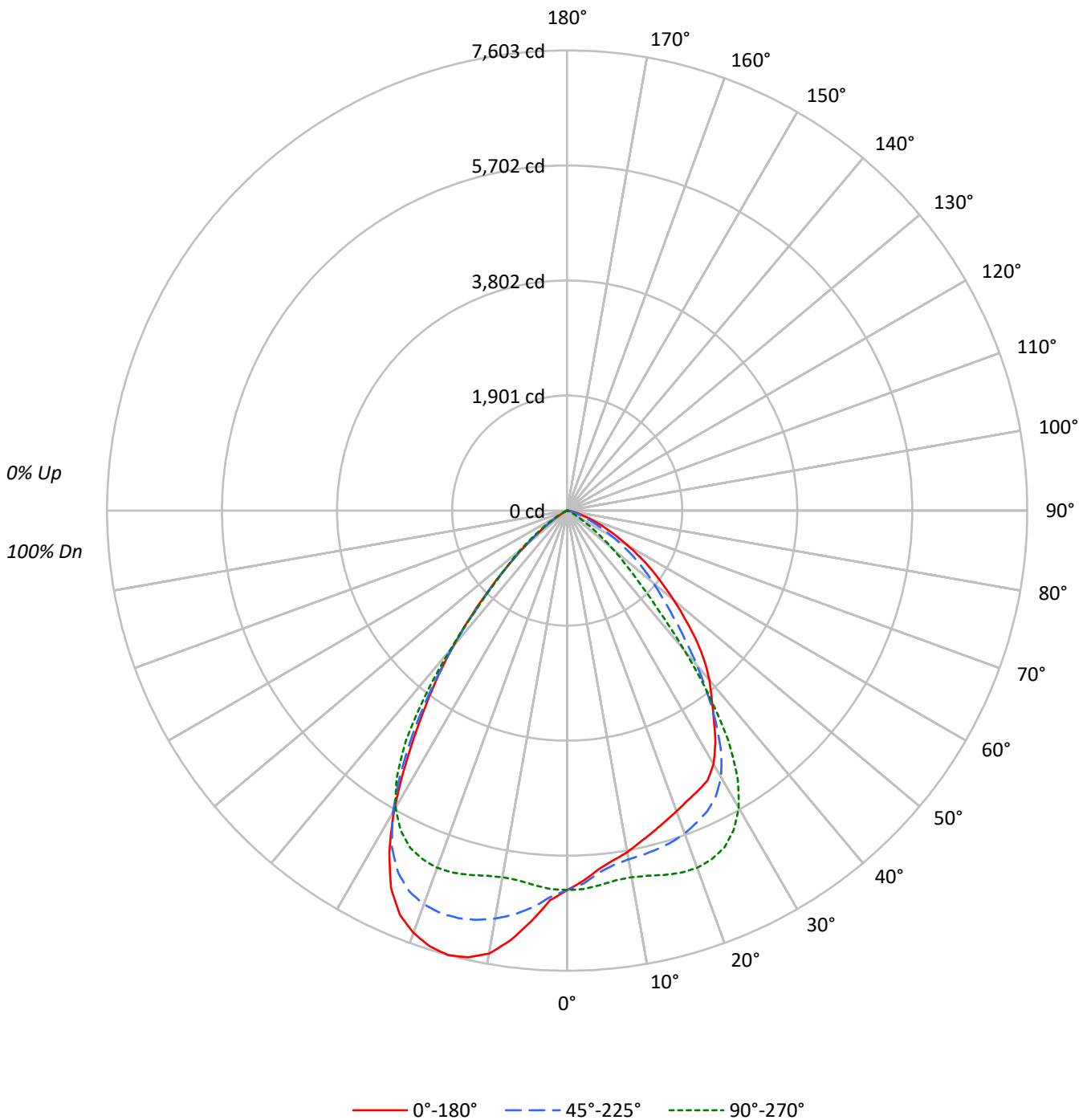
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60					60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42					42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	193331	193331	193331
5°	184186	192256	210757
10°	179433	192553	232642
15°	175365	198935	242706
20°	173436	206123	243618
25°	173843	209034	234151
30°	172230	201854	203628
35°	159145	174695	159363
40°	147064	121116	118169
45°	130954	73080	75505
50°	110189	47085	42729
55°	91669	25827	19532
60°	71553	11200	6143
65°	52805	5560	2992
70°	36713	3435	1316
75°	22339	703	0
80°	16124	1048	0
85°	10367	1026	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.7	5.7
10°-20°	1803.9	17.0
20°-30°	2762.4	26.1
30°-40°	2708.1	25.5
40°-50°	1630.8	15.4
50°-60°	750.6	7.1
60°-70°	263.7	2.5
70°-80°	69.0	0.7
80°-90°	11.7	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°	5169.0	48.8
0°-40°	7877.1	74.3
0°-60°	10258.6	96.8
0°-90°	10603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10603.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6270	6270	6270	6270	6270	
5°	5950	6006	6211	6583	6809	562
15°	5493	5789	6232	6970	7603	1552
25°	5109	5479	6144	6606	6882	2353
35°	4228	4286	4641	4374	4233	2648
45°	3003	2473	1676	1688	1731	2303
55°	1705	1351	480	378	363	1521
65°	724	501	76	38	41	737
75°	188	108	6	0	0	227
85°	29	15	3	0	0	40
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°	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6
2.5°	6123.1	6129.0	6129.0	6129.0	6140.7	6143.7	6140.7	6143.7	6149.5	6170.0	6178.8
5°	5950.3	5941.5	5947.4	5944.3	5959.1	5967.9	5962.0	5970.8	5991.3	6006.0	6020.6
7.5°	5827.3	5827.3	5827.3	5833.0	5841.8	5859.5	5856.6	5862.3	5882.8	5903.3	5923.8
10°	5730.5	5727.6	5727.6	5742.2	5753.9	5774.4	5780.3	5798.0	5824.2	5850.6	5874.0
12.5°	5604.5	5607.5	5622.1	5636.8	5663.1	5695.3	5712.9	5736.4	5777.5	5821.3	5847.8
15°	5493.2	5496.1	5507.9	5537.1	5569.4	5607.5	5645.5	5683.6	5733.4	5789.1	5836.1
17.5°	5384.8	5387.7	5396.5	5428.8	5469.8	5519.6	5563.5	5613.3	5677.8	5742.2	5800.8
20°	5285.2	5282.3	5296.9	5326.2	5379.0	5425.8	5469.8	5528.4	5598.7	5677.8	5745.1
22.5°	5188.5	5188.5	5203.2	5232.5	5279.4	5326.2	5373.1	5434.6	5504.9	5581.1	5660.2
25°	5109.4	5106.5	5127.0	5141.7	5176.8	5223.7	5273.5	5323.3	5393.6	5478.6	5554.7
27.5°	5024.5	5021.6	5024.5	5042.1	5074.3	5109.4	5147.5	5191.5	5250.1	5320.4	5393.6
30°	4837.0	4839.9	4839.9	4854.6	4872.2	4910.2	4930.7	4974.7	5027.4	5086.0	5150.5
32.5°	4558.7	4561.5	4561.5	4567.5	4582.0	4599.7	4617.3	4649.5	4690.5	4740.3	4798.9
35°	4227.6	4227.6	4224.6	4227.6	4236.4	4236.4	4251.0	4236.4	4256.9	4286.2	4330.1
37.5°	3922.9	3917.0	3911.2	3905.3	3896.5	3881.9	3861.4	3826.2	3817.4	3805.7	3808.6
40°	3653.4	3650.5	3632.9	3618.2	3588.9	3553.8	3504.0	3442.5	3392.7	3334.1	3284.3
42.5°	3354.6	3351.5	3337.0	3310.5	3278.4	3225.7	3146.5	3064.5	2964.9	2877.0	2786.2
45°	3002.9	3011.7	2991.2	2961.9	2923.8	2874.0	2786.2	2686.5	2586.9	2472.7	2358.4
47.5°	2636.7	2633.8	2619.2	2601.6	2569.4	2519.6	2461.0	2352.6	2247.1	2141.7	2024.5
50°	2296.9	2285.2	2279.3	2261.8	2241.3	2200.3	2138.7	2050.7	1957.0	1857.4	1749.0
52.5°	1974.7	1974.7	1959.9	1948.2	1930.6	1898.4	1845.7	1775.4	1696.3	1602.5	1488.3
55°	1705.1	1699.2	1684.6	1669.9	1652.3	1631.8	1585.0	1526.4	1441.4	1350.6	1251.0
57.5°	1418.0	1415.0	1409.2	1391.6	1382.8	1362.3	1309.6	1251.0	1177.8	1098.7	1016.6
60°	1160.2	1148.5	1136.7	1125.0	1110.4	1089.9	1054.7	1004.9	943.4	873.1	791.1
62.5°	928.8	946.3	911.2	911.2	881.9	864.3	832.1	802.8	738.2	673.9	603.6
65°	723.7	723.7	708.9	697.2	679.6	659.1	626.9	597.6	550.7	500.9	451.1
67.5°	553.7	550.7	536.1	524.4	509.7	498.0	474.6	439.4	404.3	363.3	322.2
70°	407.2	404.3	401.3	380.8	369.1	354.5	336.9	313.5	287.1	257.8	219.7
72.5°	292.9	292.9	284.2	275.4	263.7	251.9	234.4	219.7	196.3	175.8	149.4
75°	187.5	184.6	184.6	169.9	169.9	152.3	140.6	131.8	120.1	108.4	85.0
77.5°	134.8	131.8	128.9	123.0	117.2	111.3	102.5	90.8	82.0	70.3	61.5
80°	90.8	85.0	82.0	82.0	73.2	70.3	73.2	55.7	52.7	43.9	38.1
82.5°	55.7	55.7	52.7	52.7	49.8	46.9	38.1	38.1	35.2	32.2	26.4
85°	29.3	38.1	26.4	29.3	26.4	29.3	26.4	20.5	17.6	14.6	14.6
87.5°	17.6	11.7	11.7	17.6	14.6	11.7	11.7	11.7	8.8	5.9	5.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6
2.5°	6173.0	6193.5	6190.5	6216.9	6225.7	6246.2	6246.2	6260.8	6269.6	6290.1	6307.7
5°	6026.5	6058.7	6067.5	6099.7	6126.1	6158.3	6178.8	6211.0	6240.3	6284.3	6325.3
7.5°	5935.7	5962.0	5979.6	6017.7	6047.0	6082.1	6117.3	6161.2	6202.2	6255.0	6313.6
10°	5891.6	5926.9	5953.1	5991.3	6026.5	6064.6	6099.7	6149.5	6196.4	6263.8	6328.2
12.5°	5880.0	5921.0	5953.1	6006.0	6041.1	6082.1	6123.1	6178.8	6228.6	6298.9	6372.2
15°	5880.0	5935.7	5979.6	6038.2	6079.2	6131.9	6175.9	6231.5	6287.2	6360.4	6430.7
17.5°	5868.3	5935.7	5991.3	6058.7	6111.4	6164.2	6219.8	6272.6	6331.1	6401.5	6480.5
20°	5821.3	5906.4	5973.6	6052.8	6108.5	6167.1	6222.8	6281.3	6342.9	6416.1	6483.5
22.5°	5739.3	5839.0	5915.2	6000.1	6064.6	6123.1	6178.8	6237.4	6304.8	6375.1	6445.4
25°	5630.9	5724.6	5806.8	5894.5	5959.1	6023.5	6076.3	6143.7	6205.2	6272.6	6328.2
27.5°	5466.8	5566.4	5645.5	5736.4	5794.9	5856.6	5900.5	5956.2	6014.8	6070.4	6114.4
30°	5220.8	5311.6	5393.6	5475.6	5534.2	5578.2	5625.0	5669.0	5707.1	5745.1	5783.2
32.5°	4860.4	4942.5	5021.6	5097.7	5144.6	5182.7	5217.8	5244.2	5264.7	5285.2	5288.1
35°	4365.3	4432.6	4482.4	4549.8	4593.9	4629.0	4629.0	4640.7	4637.8	4629.0	4620.2
37.5°	3811.6	3837.9	3858.4	3884.8	3887.7	3887.7	3870.2	3855.5	3832.1	3826.2	3808.6
40°	3234.5	3199.2	3172.8	3137.7	3117.2	3073.2	3035.2	3008.8	2970.7	2964.9	2959.0
42.5°	2686.5	2604.5	2531.3	2469.8	2399.5	2337.9	2282.3	2241.3	2212.0	2209.0	2212.0
45°	2241.3	2147.5	2039.1	1954.2	1875.0	1798.8	1725.6	1675.8	1649.4	1643.5	1649.4
47.5°	1904.4	1795.9	1690.4	1593.7	1508.8	1423.8	1350.6	1283.2	1251.0	1242.2	1239.3
50°	1637.7	1526.4	1415.0	1315.4	1221.7	1136.7	1045.9	981.5	940.5	925.8	914.1
52.5°	1377.0	1277.4	1163.1	1060.6	966.8	867.2	773.5	700.1	659.1	641.7	629.8
55°	1148.5	1048.9	943.4	843.8	744.2	644.6	550.7	480.4	436.5	416.0	401.3
57.5°	917.0	823.3	732.5	632.9	550.7	454.1	360.3	298.8	260.7	237.3	225.6
60°	708.9	635.7	556.6	474.6	395.5	316.4	240.2	181.6	152.3	134.8	120.1
62.5°	536.1	474.6	421.8	351.5	290.0	222.6	164.1	117.2	90.8	76.2	70.3
65°	386.7	339.8	292.9	249.0	205.1	155.3	111.3	76.2	52.7	43.9	41.0
67.5°	275.4	237.3	202.1	172.8	140.6	111.3	79.1	52.7	41.0	35.2	32.2
70°	193.3	164.1	140.6	114.3	93.7	73.2	61.5	38.1	23.4	26.4	20.5
72.5°	128.9	108.4	96.7	79.1	64.4	52.7	38.1	26.4	26.4	20.5	17.6
75°	70.3	64.4	49.8	38.1	32.2	29.3	11.7	5.9	2.9	8.8	2.9
77.5°	49.8	43.9	38.1	32.2	26.4	20.5	11.7	11.7	8.8	11.7	5.9
80°	32.2	26.4	23.4	23.4	14.6	8.8	5.9	5.9	8.8	2.9	2.9
82.5°	20.5	17.6	14.6	14.6	14.6	8.8	8.8	8.8	8.8	5.9	5.9
85°	11.7	8.8	5.9	5.9	2.9	5.9	0.0	2.9	2.9	0.0	0.0
87.5°	5.9	2.9	2.9	2.9	2.9	0.0	0.0	2.9	0.0	2.9	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6	6269.6
2.5°	6319.4	6331.1	6345.8	6357.5	6383.9	6389.7	6401.5	6413.2	6422.0	6430.7	6433.7
5°	6360.4	6404.4	6445.4	6489.3	6545.0	6583.1	6627.0	6665.1	6703.2	6735.4	6758.8
7.5°	6372.2	6439.5	6501.1	6577.2	6659.2	6729.6	6802.8	6876.0	6952.2	7010.8	7060.6
10°	6395.6	6477.6	6556.7	6647.5	6753.0	6846.7	6937.5	7034.2	7130.9	7212.9	7286.3
12.5°	6436.6	6527.4	6612.4	6712.0	6820.4	6925.8	7025.4	7133.8	7236.5	7327.3	7409.3
15°	6504.0	6588.9	6671.0	6764.7	6873.1	6969.8	7069.4	7174.8	7277.5	7371.2	7447.4
17.5°	6547.9	6627.0	6709.0	6794.0	6884.8	6972.7	7066.4	7160.3	7253.9	7339.0	7409.3
20°	6547.9	6624.1	6685.6	6761.8	6846.7	6922.9	6999.1	7081.1	7163.1	7233.4	7300.9
22.5°	6495.2	6568.4	6615.3	6673.9	6747.1	6811.6	6852.6	6943.4	7004.9	7066.4	7116.2
25°	6372.2	6424.9	6463.0	6504.0	6562.6	6606.5	6641.7	6694.4	6755.9	6779.4	6814.5
27.5°	6149.5	6187.6	6208.1	6216.9	6246.2	6269.6	6275.5	6298.9	6325.3	6331.1	6345.8
30°	5798.0	5800.8	5792.0	5789.1	5774.4	5756.9	5753.9	5751.0	5739.3	5727.6	5730.5
32.5°	5267.6	5253.0	5217.8	5179.8	5141.7	5100.7	5077.2	5047.9	5030.3	5012.8	4992.3
35°	4582.0	4547.0	4497.1	4450.2	4406.3	4374.0	4321.3	4303.7	4286.2	4262.7	4256.9
37.5°	3776.4	3755.9	3709.0	3673.9	3650.5	3635.8	3609.4	3591.9	3591.9	3583.1	3577.2
40°	2944.3	2938.5	2920.9	2929.7	2918.0	2923.8	2920.9	2915.0	2929.7	2929.7	2935.6
42.5°	2209.0	2212.0	2220.8	2226.6	2244.2	2247.1	2261.8	2261.8	2270.6	2279.3	2285.2
45°	1643.5	1655.3	1655.3	1667.0	1684.6	1687.5	1693.3	1696.3	1702.1	1716.8	1722.6
47.5°	1233.4	1236.3	1236.3	1239.3	1245.1	1251.0	1248.1	1251.0	1259.8	1253.9	1259.8
50°	911.2	914.1	905.3	896.5	905.3	905.3	902.4	893.6	902.4	890.7	896.5
52.5°	621.2	618.1	609.3	612.4	606.4	603.6	603.6	597.6	597.6	597.6	585.9
55°	392.6	392.6	386.7	386.7	383.8	377.9	375.0	372.0	369.1	366.2	366.2
57.5°	219.7	222.6	213.9	210.9	213.9	210.9	205.1	205.1	205.1	196.3	202.1
60°	120.1	117.2	114.3	111.3	108.4	111.3	111.3	105.5	105.5	105.5	108.4
62.5°	64.4	64.4	61.5	61.5	58.6	58.6	64.4	55.7	58.6	55.7	58.6
65°	35.2	43.9	32.2	32.2	41.0	38.1	35.2	35.2	38.1	32.2	35.2
67.5°	38.1	26.4	23.4	26.4	23.4	23.4	23.4	29.3	26.4	20.5	26.4
70°	17.6	20.5	20.5	14.6	23.4	11.7	20.5	11.7	17.6	14.6	17.6
72.5°	17.6	17.6	17.6	11.7	17.6	11.7	14.6	14.6	11.7	11.7	17.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.9	5.9	2.9	2.9	2.9	2.9	5.9	5.9	5.9	0.0	2.9
80°	5.9	5.9	0.0	2.9	0.0	0.0	2.9	0.0	2.9	0.0	5.9
82.5°	2.9	5.9	2.9	2.9	5.9	5.9	5.9	2.9	2.9	2.9	2.9
85°	0.0	2.9	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	2.9
87.5°	0.0	2.9	0.0	0.0	0.0	0.0	2.9	2.9	0.0	0.0	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



TEST NUMBER: P249765

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6269.6	6269.6	6269.6	6269.6
2.5°	6436.6	6439.5	6445.4	6442.5
5°	6776.4	6799.9	6811.6	6808.7
7.5°	7095.7	7136.9	7160.3	7160.3
10°	7341.9	7388.8	7423.9	7429.8
12.5°	7473.7	7526.5	7573.4	7561.6
15°	7511.8	7564.6	7611.4	7602.6
17.5°	7467.9	7520.6	7555.8	7549.9
20°	7347.8	7391.7	7426.9	7423.9
22.5°	7160.3	7198.4	7227.7	7224.6
25°	6843.8	6870.2	6893.6	6881.9
27.5°	6357.5	6366.3	6380.9	6363.4
30°	5710.0	5715.8	5721.7	5718.8
32.5°	4983.5	4980.5	4974.7	4968.8
35°	4248.1	4248.1	4251.0	4233.4
37.5°	3580.1	3577.2	3586.0	3577.2
40°	2941.4	2938.5	2950.2	2935.6
42.5°	2294.0	2302.8	2305.7	2305.7
45°	1725.6	1728.5	1731.4	1731.4
47.5°	1259.8	1262.7	1277.4	1259.8
50°	890.7	893.6	896.5	890.7
52.5°	588.8	591.9	588.8	580.0
55°	360.3	363.3	363.3	363.3
57.5°	193.3	196.3	196.3	193.3
60°	105.5	102.5	105.5	99.6
62.5°	55.7	61.5	58.6	52.7
65°	35.2	35.2	35.2	41.0
67.5°	29.3	23.4	26.4	20.5
70°	17.6	20.5	20.5	14.6
72.5°	14.6	14.6	14.6	17.6
75°	0.0	0.0	0.0	0.0
77.5°	5.9	5.9	5.9	2.9
80°	2.9	0.0	2.9	0.0
82.5°	2.9	2.9	5.9	2.9
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)