

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: P249051

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120940 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10868.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

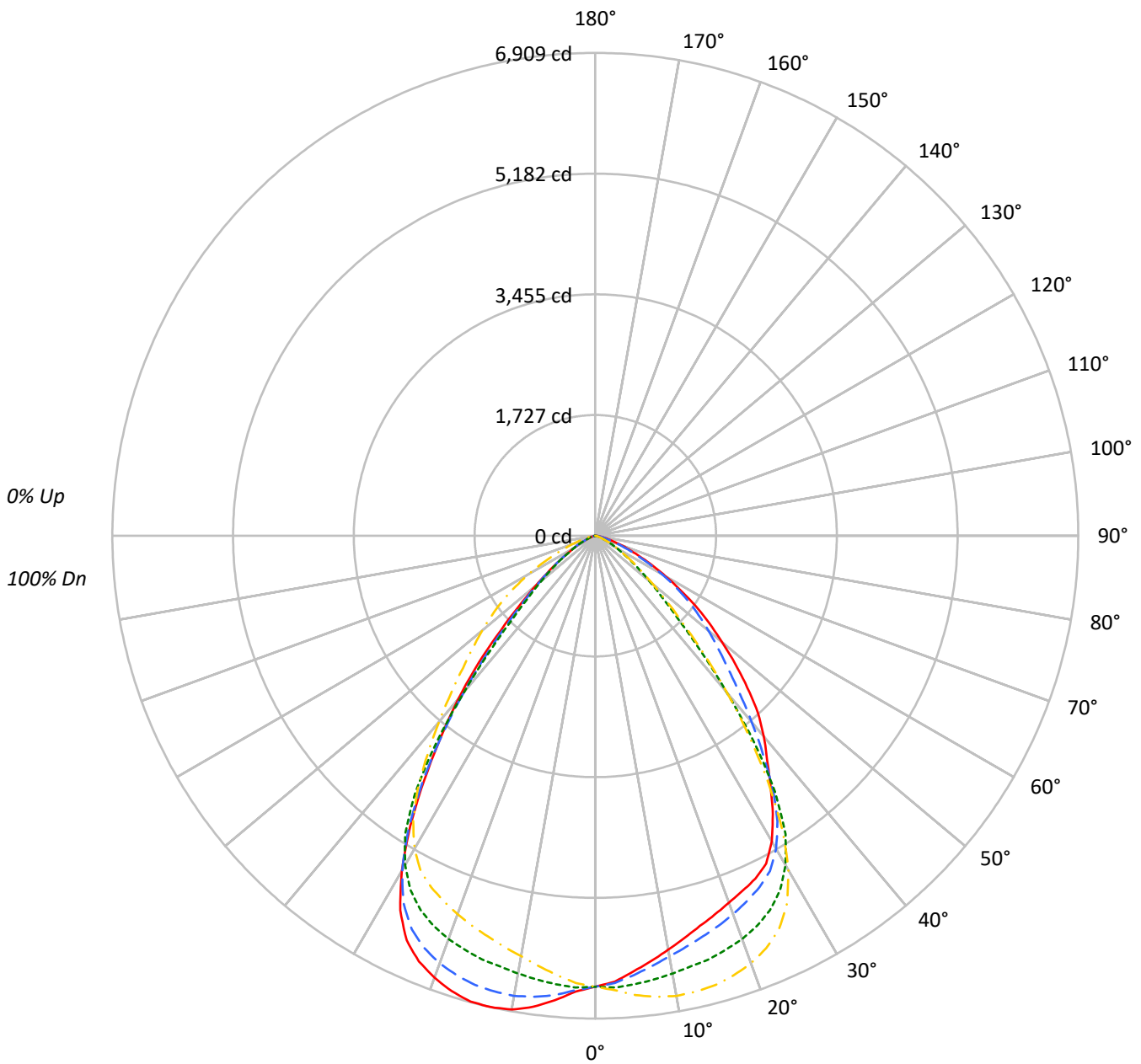
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249051

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBSW0MW

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	198956	198956	198956	198956
5°	193671	199422	206544	199422
10°	188314	199163	215536	199163
15°	184550	200343	220257	200343
20°	183293	201489	220821	201489
25°	184258	201086	217275	201086
30°	179703	193725	197204	193725
35°	164373	168996	160342	168996
40°	150912	117558	122758	117558
45°	134089	71715	82979	71715
50°	113499	47906	53202	47906
55°	94002	32687	34552	32687
60°	71694	21758	21955	21758
65°	50798	13557	12411	13557
70°	36641	9088	8241	9088
75°	23269	4515	3753	4515
80°	16231	3356	2788	3356
85°	14506	0	1097	0



TEST NUMBER: P249051

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBSW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.1	5.7
10°-20°	1778.3	16.4
20°-30°	2692.8	24.8
30°-40°	2698.8	24.8
40°-50°	1694.7	15.6
50°-60°	903.1	8.3
60°-70°	371.4	3.4
70°-80°	98.1	0.9
80°-90°	16.6	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°	5085.2	46.8
0°-40°	7784.1	71.6
0°-60°	10381.9	95.5
0°-90°	10868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10868.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6452	6452	6452	6452	6452	
5°	6257	6442	6673	6442	6257	590
15°	5781	6276	6899	6276	5781	1635
25°	5416	5910	6386	5910	5416	2484
35°	4366	4489	4259	4489	4366	2736
45°	3075	1644	1903	1644	3075	2365
55°	1748	608	643	608	1748	1559
65°	696	186	170	186	696	722
75°	195	38	32	38	195	221
85°	41	0	3	0	41	45
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°	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0
2.5°	6385.9	6379.5	6376.4	6382.7	6385.9	6398.4	6395.3	6401.5	6401.5	6404.8	6411.0
5°	6256.7	6253.5	6256.7	6256.7	6269.3	6281.9	6278.7	6288.2	6294.4	6310.3	6316.5
7.5°	6137.0	6137.0	6133.8	6146.3	6152.7	6171.6	6168.4	6184.2	6193.7	6209.4	6231.4
10°	6014.1	6014.1	6017.2	6026.7	6029.9	6058.2	6058.2	6080.2	6092.8	6108.6	6137.0
12.5°	5894.4	5894.4	5913.3	5907.0	5919.6	5941.6	5951.1	5973.1	5992.0	6023.5	6051.9
15°	5780.9	5780.9	5787.3	5803.0	5812.4	5840.8	5856.5	5881.8	5903.9	5935.4	5976.3
17.5°	5683.3	5680.2	5683.3	5702.2	5721.2	5746.3	5758.9	5790.4	5812.4	5853.4	5891.3
20°	5585.6	5592.0	5592.0	5607.7	5620.3	5651.8	5664.4	5699.1	5724.3	5762.0	5806.2
22.5°	5500.6	5497.5	5497.5	5519.5	5529.0	5557.2	5569.8	5601.3	5629.7	5661.2	5702.2
25°	5415.5	5409.2	5421.9	5425.0	5431.2	5462.7	5472.2	5494.2	5522.6	5551.0	5592.0
27.5°	5289.5	5283.2	5286.4	5298.9	5308.4	5333.6	5339.9	5362.0	5384.0	5409.2	5443.9
30°	5046.9	5040.6	5037.5	5059.6	5069.0	5087.8	5097.3	5135.2	5141.4	5169.8	5194.9
32.5°	4725.5	4722.4	4728.8	4747.6	4757.0	4782.3	4794.9	4816.9	4832.6	4848.5	4873.6
35°	4366.5	4360.1	4366.5	4385.4	4385.4	4407.4	4416.9	4426.2	4423.1	4426.2	4420.0
37.5°	4032.6	4029.3	4032.6	4041.9	4032.6	4041.9	4032.6	4013.6	3979.0	3941.1	3903.3
40°	3749.0	3752.1	3733.3	3745.9	3711.1	3704.9	3670.3	3622.9	3553.7	3478.1	3371.0
42.5°	3446.6	3437.1	3424.5	3430.7	3402.5	3380.3	3323.6	3263.9	3175.6	3049.6	2920.4
45°	3074.8	3071.7	3065.3	3062.2	3043.3	3021.2	2973.9	2904.7	2807.0	2677.9	2523.4
47.5°	2712.5	2703.0	2703.0	2706.1	2684.1	2681.0	2643.1	2583.3	2498.3	2372.2	2211.6
50°	2365.9	2362.8	2369.1	2381.7	2365.9	2359.7	2334.5	2293.5	2217.9	2110.8	1959.5
52.5°	2054.0	2050.9	2057.3	2072.9	2066.6	2072.9	2047.8	2016.3	1965.8	1861.8	1729.6
55°	1748.5	1748.5	1748.5	1767.3	1767.3	1767.3	1754.7	1735.9	1688.6	1613.0	1490.2
57.5°	1430.3	1433.4	1452.3	1455.4	1452.3	1458.7	1455.4	1436.5	1405.1	1351.6	1257.0
60°	1162.5	1162.5	1172.0	1181.4	1178.2	1181.4	1181.4	1172.0	1140.5	1096.4	1020.8
62.5°	919.9	929.4	923.0	929.4	941.9	929.4	923.0	916.8	894.7	866.3	803.3
65°	696.2	702.6	702.6	705.7	699.3	702.6	690.0	680.5	667.9	636.4	595.5
67.5°	529.3	529.3	529.3	529.3	526.1	523.0	519.9	510.4	488.3	475.8	431.6
70°	406.4	387.5	387.5	387.5	387.5	390.7	381.2	368.7	362.3	340.3	308.8
72.5°	270.9	277.2	270.9	270.9	264.7	267.8	255.2	248.8	242.6	230.0	211.1
75°	195.3	179.6	185.8	189.1	179.6	185.8	173.2	160.7	160.7	151.2	141.7
77.5°	126.0	122.9	126.0	129.2	126.0	122.9	116.6	110.2	110.2	107.1	97.6
80°	91.4	88.2	88.2	88.2	85.1	88.2	82.0	82.0	75.6	72.5	66.1
82.5°	59.9	59.9	56.7	59.9	56.7	59.9	50.4	50.4	50.4	47.2	41.0
85°	41.0	34.6	34.6	37.9	31.5	37.9	34.6	31.5	28.4	28.4	25.2
87.5°	18.9	22.0	18.9	22.0	18.9	18.9	22.0	18.9	18.9	12.6	12.6
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: P249051

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0
2.5°	6420.5	6423.6	6423.6	6436.3	6442.5	6445.6	6445.6	6470.9	6461.5	6467.8	6474.0
5°	6329.2	6348.0	6354.3	6354.3	6389.0	6401.5	6414.1	6442.5	6445.6	6464.6	6486.6
7.5°	6240.9	6262.9	6275.6	6303.9	6325.9	6348.0	6385.9	6404.8	6423.6	6448.9	6477.1
10°	6155.8	6181.1	6206.3	6228.3	6262.9	6291.3	6316.5	6360.6	6382.7	6417.4	6455.1
12.5°	6074.0	6108.6	6130.7	6168.4	6206.3	6231.4	6269.3	6310.3	6344.9	6379.5	6423.6
15°	6001.5	6042.5	6067.6	6108.6	6149.6	6184.2	6225.2	6275.6	6300.8	6341.8	6382.7
17.5°	5922.7	5966.9	5998.4	6036.1	6086.6	6124.3	6159.1	6209.4	6240.9	6285.0	6332.3
20°	5840.8	5884.9	5922.7	5960.5	6011.0	6048.7	6089.7	6140.1	6174.7	6218.8	6256.7
22.5°	5743.2	5784.2	5825.0	5869.1	5919.6	5951.1	5998.4	6042.5	6080.2	6121.2	6159.1
25°	5617.2	5667.6	5699.1	5740.0	5780.9	5815.6	5866.0	5910.1	5941.6	5979.5	6014.1
27.5°	5469.1	5506.9	5532.1	5566.7	5607.7	5639.2	5676.9	5721.2	5752.7	5787.3	5812.4
30°	5217.0	5251.7	5273.8	5298.9	5339.9	5368.3	5399.8	5440.7	5462.7	5488.0	5510.0
32.5°	4886.2	4914.6	4927.2	4946.1	4974.5	5002.8	5028.1	5062.7	5072.1	5087.8	5087.8
35°	4407.4	4413.7	4410.6	4416.9	4429.5	4445.2	4467.2	4489.3	4501.8	4501.8	4492.5
37.5°	3846.6	3808.9	3767.9	3736.4	3726.9	3720.6	3733.3	3742.6	3755.3	3761.5	3745.9
40°	3263.9	3178.8	3087.4	3005.4	2948.8	2923.6	2914.1	2920.4	2920.4	2942.4	2942.4
42.5°	2762.9	2630.5	2495.2	2372.2	2290.3	2227.4	2199.0	2199.0	2202.1	2217.9	2227.4
45°	2347.1	2180.1	2022.5	1887.1	1773.7	1691.7	1654.0	1644.5	1641.4	1647.6	1669.7
47.5°	2028.9	1855.6	1691.7	1524.8	1405.1	1323.2	1288.6	1275.8	1263.3	1275.8	1279.1
50°	1780.0	1600.4	1427.2	1260.2	1134.1	1061.6	1017.5	998.6	995.5	995.5	1001.9
52.5°	1553.1	1386.2	1213.0	1042.8	910.4	841.2	800.2	790.7	778.2	790.7	790.7
55°	1338.9	1172.0	1001.9	841.2	730.8	658.5	620.6	608.0	601.7	611.1	611.1
57.5°	1105.8	964.0	806.6	661.6	551.4	500.9	472.5	456.8	453.6	459.9	453.6
60°	907.3	787.6	652.1	519.9	434.8	381.2	359.2	352.8	346.5	352.8	352.8
62.5°	718.3	617.5	507.1	406.4	333.9	296.2	270.9	270.9	267.8	267.8	270.9
65°	532.4	453.6	374.9	289.8	233.2	204.8	185.8	185.8	182.7	185.8	182.7
67.5°	387.5	333.9	270.9	211.1	167.0	151.2	138.6	129.2	135.5	129.2	126.0
70°	283.6	239.4	195.3	160.7	129.2	113.5	104.0	100.8	94.5	94.5	94.5
72.5°	189.1	160.7	132.3	104.0	85.1	69.2	66.1	59.9	53.6	56.7	63.0
75°	126.0	107.1	94.5	75.6	56.7	56.7	37.9	37.9	31.5	37.9	28.4
77.5°	88.2	72.5	56.7	47.2	37.9	34.6	25.2	25.2	22.0	22.0	22.0
80°	63.0	53.6	41.0	34.6	25.2	25.2	22.0	18.9	15.7	15.7	18.9
82.5°	37.9	28.4	28.4	25.2	15.7	12.6	9.5	12.6	6.4	6.4	6.4
85°	22.0	18.9	15.7	9.5	6.4	6.4	3.1	0.0	3.1	3.1	0.0
87.5°	12.6	6.4	6.4	3.1	0.0	3.1	3.1	0.0	0.0	0.0	6.4
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: P249051

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0
2.5°	6489.9	6486.6	6493.0	6493.0	6511.9	6508.7	6518.1	6518.1	6511.9	6515.0	6527.6
5°	6511.9	6521.4	6540.2	6556.0	6584.3	6597.0	6612.7	6628.5	6631.6	6641.1	6650.5
7.5°	6511.9	6543.4	6565.5	6593.7	6631.6	6653.6	6688.3	6716.6	6729.2	6744.9	6763.8
10°	6499.2	6530.7	6571.7	6603.2	6650.5	6685.1	6719.8	6763.8	6782.8	6807.9	6833.2
12.5°	6474.0	6508.7	6552.7	6593.7	6647.3	6678.8	6722.9	6763.8	6792.2	6826.9	6855.3
15°	6436.3	6477.1	6518.1	6559.1	6615.8	6653.6	6694.6	6741.8	6770.2	6807.9	6833.2
17.5°	6376.4	6420.5	6458.3	6496.1	6549.6	6593.7	6631.6	6675.7	6704.1	6735.6	6770.2
20°	6303.9	6344.9	6385.9	6417.4	6470.9	6508.7	6549.6	6590.6	6612.7	6619.0	6672.6
22.5°	6212.6	6240.9	6272.4	6322.8	6354.3	6389.0	6426.8	6464.6	6486.6	6521.4	6540.2
25°	6061.3	6089.7	6124.3	6146.3	6184.2	6212.6	6250.3	6291.3	6303.9	6329.2	6348.0
27.5°	5850.3	5866.0	5881.8	5900.6	5922.7	5938.5	5960.5	5979.5	5992.0	6004.6	6017.2
30°	5516.3	5516.3	5516.3	5503.7	5513.2	5522.6	5525.7	5522.6	5522.6	5519.5	5519.5
32.5°	5075.3	5050.1	5021.7	4996.5	4987.1	4974.5	4968.1	4958.7	4943.0	4933.5	4936.6
35°	4479.8	4423.1	4388.5	4357.0	4331.8	4312.9	4303.4	4294.0	4290.9	4278.3	4265.6
37.5°	3736.4	3695.4	3670.3	3651.3	3629.3	3610.3	3613.5	3616.7	3626.0	3619.8	3622.9
40°	2948.8	2939.3	2948.8	2926.7	2920.4	2926.7	2942.4	2964.6	2977.2	2989.7	3011.8
42.5°	2243.1	2258.8	2280.9	2280.9	2290.3	2303.0	2321.8	2356.5	2375.3	2397.4	2422.7
45°	1688.6	1707.5	1735.9	1745.3	1751.6	1767.3	1789.5	1817.7	1830.3	1849.3	1871.3
47.5°	1301.1	1313.7	1329.4	1345.2	1360.9	1367.3	1389.3	1389.3	1405.1	1417.7	1423.9
50°	1014.4	1027.0	1039.6	1049.1	1055.4	1064.9	1071.1	1080.6	1083.7	1090.0	1093.1
52.5°	793.9	809.7	809.7	815.9	825.4	834.8	831.7	834.8	837.9	837.9	847.4
55°	620.6	620.6	630.1	630.1	636.4	633.2	636.4	636.4	636.4	636.4	639.5
57.5°	463.1	466.3	475.8	469.4	466.3	472.5	466.3	472.5	469.4	475.8	466.3
60°	356.0	356.0	359.2	359.2	362.3	362.3	362.3	359.2	359.2	356.0	356.0
62.5°	267.8	270.9	274.1	270.9	270.9	270.9	267.8	267.8	264.7	261.4	261.4
65°	179.6	176.5	182.7	176.5	179.6	179.6	176.5	179.6	170.1	173.2	170.1
67.5°	129.2	126.0	122.9	126.0	122.9	119.7	119.7	122.9	126.0	116.6	116.6
70°	85.1	88.2	85.1	88.2	91.4	91.4	88.2	85.1	88.2	82.0	85.1
72.5°	53.6	53.6	53.6	53.6	53.6	56.7	56.7	56.7	50.4	50.4	47.2
75°	25.2	34.6	28.4	25.2	34.6	34.6	31.5	31.5	28.4	28.4	28.4
77.5°	25.2	18.9	18.9	18.9	18.9	18.9	18.9	18.9	15.7	18.9	15.7
80°	12.6	12.6	12.6	9.5	12.6	12.6	15.7	12.6	12.6	9.5	15.7
82.5°	6.4	6.4	6.4	0.0	3.1	6.4	6.4	3.1	6.4	6.4	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P249051

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0
2.5°	6524.5	6521.4	6524.5	6527.6	6524.5	6521.4	6524.5	6527.6	6515.0	6511.9	6518.1
5°	6663.1	6663.1	6669.3	6672.6	6669.3	6663.1	6663.1	6650.5	6641.1	6631.6	6628.5
7.5°	6782.8	6789.1	6795.4	6798.5	6795.4	6789.1	6782.8	6763.8	6744.9	6729.2	6716.6
10°	6855.3	6864.7	6877.3	6883.5	6877.3	6864.7	6855.3	6833.2	6807.9	6782.8	6763.8
12.5°	6886.8	6896.2	6911.9	6908.8	6911.9	6896.2	6886.8	6855.3	6826.9	6792.2	6763.8
15°	6864.7	6877.3	6893.0	6899.4	6893.0	6877.3	6864.7	6833.2	6807.9	6770.2	6741.8
17.5°	6795.4	6814.3	6823.8	6833.2	6823.8	6814.3	6795.4	6770.2	6735.6	6704.1	6675.7
20°	6700.8	6713.5	6726.1	6729.2	6726.1	6713.5	6700.8	6672.6	6619.0	6612.7	6590.6
22.5°	6565.5	6574.9	6603.2	6593.7	6603.2	6574.9	6565.5	6540.2	6521.4	6486.6	6464.6
25°	6370.0	6379.5	6382.7	6385.9	6382.7	6379.5	6370.0	6348.0	6329.2	6303.9	6291.3
27.5°	6033.0	6033.0	6039.2	6042.5	6039.2	6033.0	6033.0	6017.2	6004.6	5992.0	5979.5
30°	5522.6	5522.6	5522.6	5538.4	5522.6	5522.6	5522.6	5519.5	5519.5	5522.6	5522.6
32.5°	4933.5	4927.2	4920.9	4927.2	4920.9	4927.2	4933.5	4936.6	4933.5	4943.0	4958.7
35°	4265.6	4262.5	4271.9	4259.4	4271.9	4262.5	4265.6	4265.6	4278.3	4290.9	4294.0
37.5°	3626.0	3619.8	3632.4	3619.8	3632.4	3619.8	3626.0	3622.9	3619.8	3626.0	3616.7
40°	3018.1	3024.4	3024.4	3049.6	3024.4	3024.4	3018.1	3011.8	2989.7	2977.2	2964.6
42.5°	2435.3	2454.2	2447.8	2466.8	2447.8	2454.2	2435.3	2422.7	2397.4	2375.3	2356.5
45°	1883.9	1896.6	1896.6	1902.8	1896.6	1896.6	1883.9	1871.3	1849.3	1830.3	1817.7
47.5°	1446.0	1446.0	1446.0	1449.2	1446.0	1446.0	1446.0	1423.9	1417.7	1405.1	1389.3
50°	1099.5	1102.6	1105.8	1109.0	1105.8	1102.6	1099.5	1093.1	1090.0	1083.7	1080.6
52.5°	844.3	847.4	841.2	847.4	841.2	847.4	844.3	847.4	837.9	837.9	834.8
55°	639.5	636.4	639.5	642.7	639.5	636.4	639.5	639.5	636.4	636.4	636.4
57.5°	469.4	463.1	463.1	463.1	463.1	463.1	469.4	466.3	475.8	469.4	472.5
60°	349.7	352.8	352.8	356.0	352.8	352.8	349.7	356.0	356.0	359.2	359.2
62.5°	258.3	267.8	261.4	267.8	261.4	267.8	258.3	261.4	261.4	264.7	267.8
65°	167.0	167.0	167.0	170.1	167.0	167.0	167.0	170.1	173.2	170.1	179.6
67.5°	113.5	116.6	122.9	119.7	122.9	116.6	113.5	116.6	116.6	126.0	122.9
70°	91.4	82.0	82.0	91.4	82.0	82.0	91.4	85.1	82.0	88.2	85.1
72.5°	53.6	47.2	53.6	53.6	53.6	47.2	53.6	47.2	50.4	50.4	56.7
75°	28.4	25.2	22.0	31.5	22.0	25.2	28.4	28.4	28.4	28.4	31.5
77.5°	18.9	15.7	22.0	22.0	22.0	15.7	18.9	15.7	18.9	15.7	18.9
80°	9.5	12.6	9.5	15.7	9.5	12.6	9.5	15.7	9.5	12.6	12.6
82.5°	3.1	6.4	6.4	6.4	6.4	6.4	3.1	3.1	6.4	6.4	3.1
85°	0.0	6.4	3.1	3.1	3.1	6.4	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.0	0.0	3.1	0.0	0.0	3.1	0.0	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: P249051

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0
2.5°	6518.1	6508.7	6511.9	6493.0	6493.0	6486.6	6489.9	6474.0	6467.8	6461.5	6470.9
5°	6612.7	6597.0	6584.3	6556.0	6540.2	6521.4	6511.9	6486.6	6464.6	6445.6	6442.5
7.5°	6688.3	6653.6	6631.6	6593.7	6565.5	6543.4	6511.9	6477.1	6448.9	6423.6	6404.8
10°	6719.8	6685.1	6650.5	6603.2	6571.7	6530.7	6499.2	6455.1	6417.4	6382.7	6360.6
12.5°	6722.9	6678.8	6647.3	6593.7	6552.7	6508.7	6474.0	6423.6	6379.5	6344.9	6310.3
15°	6694.6	6653.6	6615.8	6559.1	6518.1	6477.1	6436.3	6382.7	6341.8	6300.8	6275.6
17.5°	6631.6	6593.7	6549.6	6496.1	6458.3	6420.5	6376.4	6332.3	6285.0	6240.9	6209.4
20°	6549.6	6508.7	6470.9	6417.4	6385.9	6344.9	6303.9	6256.7	6218.8	6174.7	6140.1
22.5°	6426.8	6389.0	6354.3	6322.8	6272.4	6240.9	6212.6	6159.1	6121.2	6080.2	6042.5
25°	6250.3	6212.6	6184.2	6146.3	6124.3	6089.7	6061.3	6014.1	5979.5	5941.6	5910.1
27.5°	5960.5	5938.5	5922.7	5900.6	5881.8	5866.0	5850.3	5812.4	5787.3	5752.7	5721.2
30°	5525.7	5522.6	5513.2	5503.7	5516.3	5516.3	5516.3	5510.0	5488.0	5462.7	5440.7
32.5°	4968.1	4974.5	4987.1	4996.5	5021.7	5050.1	5075.3	5087.8	5087.8	5072.1	5062.7
35°	4303.4	4312.9	4331.8	4357.0	4388.5	4423.1	4479.8	4492.5	4501.8	4501.8	4489.3
37.5°	3613.5	3610.3	3629.3	3651.3	3670.3	3695.4	3736.4	3745.9	3761.5	3755.3	3742.6
40°	2942.4	2926.7	2920.4	2926.7	2948.8	2939.3	2948.8	2942.4	2942.4	2920.4	2920.4
42.5°	2321.8	2303.0	2290.3	2280.9	2280.9	2258.8	2243.1	2227.4	2217.9	2202.1	2199.0
45°	1789.5	1767.3	1751.6	1745.3	1735.9	1707.5	1688.6	1669.7	1647.6	1641.4	1644.5
47.5°	1389.3	1367.3	1360.9	1345.2	1329.4	1313.7	1301.1	1279.1	1275.8	1263.3	1275.8
50°	1071.1	1064.9	1055.4	1049.1	1039.6	1027.0	1014.4	1001.9	995.5	995.5	998.6
52.5°	831.7	834.8	825.4	815.9	809.7	809.7	793.9	790.7	790.7	778.2	790.7
55°	636.4	633.2	636.4	630.1	630.1	620.6	620.6	611.1	611.1	601.7	608.0
57.5°	466.3	472.5	466.3	469.4	475.8	466.3	463.1	453.6	459.9	453.6	456.8
60°	362.3	362.3	362.3	359.2	359.2	356.0	356.0	352.8	352.8	346.5	352.8
62.5°	267.8	270.9	270.9	270.9	274.1	270.9	267.8	270.9	267.8	267.8	270.9
65°	176.5	179.6	179.6	176.5	182.7	176.5	179.6	182.7	185.8	182.7	185.8
67.5°	119.7	119.7	122.9	126.0	122.9	126.0	129.2	126.0	129.2	135.5	129.2
70°	88.2	91.4	91.4	88.2	85.1	88.2	85.1	94.5	94.5	94.5	100.8
72.5°	56.7	56.7	53.6	53.6	53.6	53.6	53.6	63.0	56.7	53.6	59.9
75°	31.5	34.6	34.6	25.2	28.4	34.6	25.2	28.4	37.9	31.5	37.9
77.5°	18.9	18.9	18.9	18.9	18.9	18.9	25.2	22.0	22.0	22.0	25.2
80°	15.7	12.6	12.6	9.5	12.6	12.6	12.6	18.9	15.7	15.7	18.9
82.5°	6.4	6.4	3.1	0.0	6.4	6.4	6.4	6.4	6.4	6.4	12.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	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: P249051

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0
2.5°	6445.6	6445.6	6442.5	6436.3	6423.6	6423.6	6420.5	6411.0	6404.8	6401.5	6401.5
5°	6414.1	6401.5	6389.0	6354.3	6354.3	6348.0	6329.2	6316.5	6310.3	6294.4	6288.2
7.5°	6385.9	6348.0	6325.9	6303.9	6275.6	6262.9	6240.9	6231.4	6209.4	6193.7	6184.2
10°	6316.5	6291.3	6262.9	6228.3	6206.3	6181.1	6155.8	6137.0	6108.6	6092.8	6080.2
12.5°	6269.3	6231.4	6206.3	6168.4	6130.7	6108.6	6074.0	6051.9	6023.5	5992.0	5973.1
15°	6225.2	6184.2	6149.6	6108.6	6067.6	6042.5	6001.5	5976.3	5935.4	5903.9	5881.8
17.5°	6159.1	6124.3	6086.6	6036.1	5998.4	5966.9	5922.7	5891.3	5853.4	5812.4	5790.4
20°	6089.7	6048.7	6011.0	5960.5	5922.7	5884.9	5840.8	5806.2	5762.0	5724.3	5699.1
22.5°	5998.4	5951.1	5919.6	5869.1	5825.0	5784.2	5743.2	5702.2	5661.2	5629.7	5601.3
25°	5866.0	5815.6	5780.9	5740.0	5699.1	5667.6	5617.2	5592.0	5551.0	5522.6	5494.2
27.5°	5676.9	5639.2	5607.7	5566.7	5532.1	5506.9	5469.1	5443.9	5409.2	5384.0	5362.0
30°	5399.8	5368.3	5339.9	5298.9	5273.8	5251.7	5217.0	5194.9	5169.8	5141.4	5135.2
32.5°	5028.1	5002.8	4974.5	4946.1	4927.2	4914.6	4886.2	4873.6	4848.5	4832.6	4816.9
35°	4467.2	4445.2	4429.5	4416.9	4410.6	4413.7	4407.4	4420.0	4426.2	4423.1	4426.2
37.5°	3733.3	3720.6	3726.9	3736.4	3767.9	3808.9	3846.6	3903.3	3941.1	3979.0	4013.6
40°	2914.1	2923.6	2948.8	3005.4	3087.4	3178.8	3263.9	3371.0	3478.1	3553.7	3622.9
42.5°	2199.0	2227.4	2290.3	2372.2	2495.2	2630.5	2762.9	2920.4	3049.6	3175.6	3263.9
45°	1654.0	1691.7	1773.7	1887.1	2022.5	2180.1	2347.1	2523.4	2677.9	2807.0	2904.7
47.5°	1288.6	1323.2	1405.1	1524.8	1691.7	1855.6	2028.9	2211.6	2372.2	2498.3	2583.3
50°	1017.5	1061.6	1134.1	1260.2	1427.2	1600.4	1780.0	1959.5	2110.8	2217.9	2293.5
52.5°	800.2	841.2	910.4	1042.8	1213.0	1386.2	1553.1	1729.6	1861.8	1965.8	2016.3
55°	620.6	658.5	730.8	841.2	1001.9	1172.0	1338.9	1490.2	1613.0	1688.6	1735.9
57.5°	472.5	500.9	551.4	661.6	806.6	964.0	1105.8	1257.0	1351.6	1405.1	1436.5
60°	359.2	381.2	434.8	519.9	652.1	787.6	907.3	1020.8	1096.4	1140.5	1172.0
62.5°	270.9	296.2	333.9	406.4	507.1	617.5	718.3	803.3	866.3	894.7	916.8
65°	185.8	204.8	233.2	289.8	374.9	453.6	532.4	595.5	636.4	667.9	680.5
67.5°	138.6	151.2	167.0	211.1	270.9	333.9	387.5	431.6	475.8	488.3	510.4
70°	104.0	113.5	129.2	160.7	195.3	239.4	283.6	308.8	340.3	362.3	368.7
72.5°	66.1	69.2	85.1	104.0	132.3	160.7	189.1	211.1	230.0	242.6	248.8
75°	37.9	56.7	56.7	75.6	94.5	107.1	126.0	141.7	151.2	160.7	160.7
77.5°	25.2	34.6	37.9	47.2	56.7	72.5	88.2	97.6	107.1	110.2	110.2
80°	22.0	25.2	25.2	34.6	41.0	53.6	63.0	66.1	72.5	75.6	82.0
82.5°	9.5	12.6	15.7	25.2	28.4	28.4	37.9	41.0	47.2	50.4	50.4
85°	3.1	6.4	6.4	9.5	15.7	18.9	22.0	25.2	28.4	28.4	31.5
87.5°	3.1	3.1	0.0	3.1	6.4	6.4	12.6	12.6	12.6	18.9	18.9
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: P249051

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0	6452.0
2.5°	6395.3	6398.4	6385.9	6382.7	6376.4	6379.5	6385.9
5°	6278.7	6281.9	6269.3	6256.7	6256.7	6253.5	6256.7
7.5°	6168.4	6171.6	6152.7	6146.3	6133.8	6137.0	6137.0
10°	6058.2	6058.2	6029.9	6026.7	6017.2	6014.1	6014.1
12.5°	5951.1	5941.6	5919.6	5907.0	5913.3	5894.4	5894.4
15°	5856.5	5840.8	5812.4	5803.0	5787.3	5780.9	5780.9
17.5°	5758.9	5746.3	5721.2	5702.2	5683.3	5680.2	5683.3
20°	5664.4	5651.8	5620.3	5607.7	5592.0	5592.0	5585.6
22.5°	5569.8	5557.2	5529.0	5519.5	5497.5	5497.5	5500.6
25°	5472.2	5462.7	5431.2	5425.0	5421.9	5409.2	5415.5
27.5°	5339.9	5333.6	5308.4	5298.9	5286.4	5283.2	5289.5
30°	5097.3	5087.8	5069.0	5059.6	5037.5	5040.6	5046.9
32.5°	4794.9	4782.3	4757.0	4747.6	4728.8	4722.4	4725.5
35°	4416.9	4407.4	4385.4	4385.4	4366.5	4360.1	4366.5
37.5°	4032.6	4041.9	4032.6	4041.9	4032.6	4029.3	4032.6
40°	3670.3	3704.9	3711.1	3745.9	3733.3	3752.1	3749.0
42.5°	3323.6	3380.3	3402.5	3430.7	3424.5	3437.1	3446.6
45°	2973.9	3021.2	3043.3	3062.2	3065.3	3071.7	3074.8
47.5°	2643.1	2681.0	2684.1	2706.1	2703.0	2703.0	2712.5
50°	2334.5	2359.7	2365.9	2381.7	2369.1	2362.8	2365.9
52.5°	2047.8	2072.9	2066.6	2072.9	2057.3	2050.9	2054.0
55°	1754.7	1767.3	1767.3	1767.3	1748.5	1748.5	1748.5
57.5°	1455.4	1458.7	1452.3	1455.4	1452.3	1433.4	1430.3
60°	1181.4	1181.4	1178.2	1181.4	1172.0	1162.5	1162.5
62.5°	923.0	929.4	941.9	929.4	923.0	929.4	919.9
65°	690.0	702.6	699.3	705.7	702.6	702.6	696.2
67.5°	519.9	523.0	526.1	529.3	529.3	529.3	529.3
70°	381.2	390.7	387.5	387.5	387.5	387.5	406.4
72.5°	255.2	267.8	264.7	270.9	270.9	277.2	270.9
75°	173.2	185.8	179.6	189.1	185.8	179.6	195.3
77.5°	116.6	122.9	126.0	129.2	126.0	122.9	126.0
80°	82.0	88.2	85.1	88.2	88.2	88.2	91.4
82.5°	50.4	59.9	56.7	59.9	56.7	59.9	59.9
85°	34.6	37.9	31.5	37.9	34.6	34.6	41.0
87.5°	22.0	18.9	18.9	22.0	18.9	22.0	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)