

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: P249752

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249752
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: LSR8B120D010 EC8B120935 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11115.0 lumens
Efficiency: N/A
Efficacy: 94.0 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

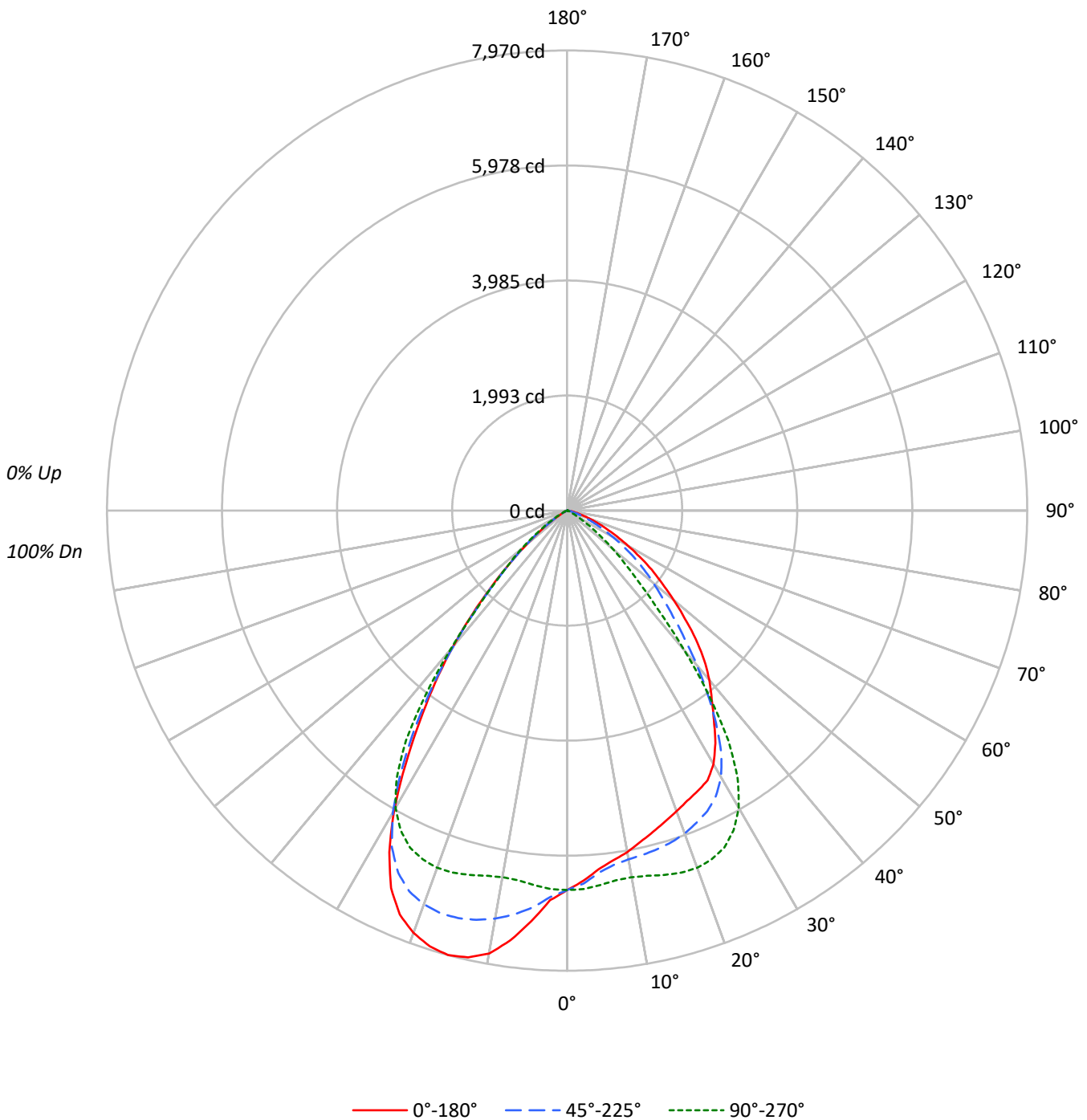
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	202666	202666	202666
5°	193079	201539	220935
10°	188101	201850	243874
15°	183835	208541	254426
20°	181810	216076	255379
25°	182237	219125	245457
30°	180544	211604	213462
35°	166832	183128	167057
40°	154165	126965	123878
45°	137277	76613	79151
50°	115509	49359	44792
55°	96099	27074	20478
60°	75006	11742	6439
65°	55351	5830	3137
70°	38489	3597	1379
75°	23423	739	0
80°	16906	1101	0
85°	10862	1061	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.8	5.7
10°-20°	1891.0	17.0
20°-30°	2895.8	26.1
30°-40°	2838.9	25.5
40°-50°	1709.6	15.4
50°-60°	786.9	7.1
60°-70°	276.4	2.5
70°-80°	72.3	0.7
80°-90°	12.3	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°	5418.6	48.8
0°-40°	8257.5	74.3
0°-60°	10754.0	96.8
0°-90°	11115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11115.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6572	6572	6572	6572	6572	
5°	6238	6296	6511	6901	7138	589
15°	5758	6069	6532	7306	7970	1627
25°	5356	5743	6440	6926	7214	2467
35°	4432	4493	4865	4585	4438	2776
45°	3148	2592	1757	1769	1815	2414
55°	1788	1416	504	396	381	1595
65°	759	525	80	40	43	773
75°	197	114	6	0	0	238
85°	31	15	3	0	0	42
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°	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3
2.5°	6418.7	6424.9	6424.9	6424.9	6437.2	6440.3	6437.2	6440.3	6446.4	6467.9	6477.1
5°	6237.6	6228.4	6234.5	6231.4	6246.8	6256.0	6249.8	6259.1	6280.6	6296.0	6311.3
7.5°	6108.6	6108.6	6108.6	6114.7	6123.9	6142.4	6139.4	6145.4	6166.9	6188.4	6209.9
10°	6007.3	6004.2	6004.2	6019.5	6031.8	6053.3	6059.5	6077.9	6105.5	6133.2	6157.7
12.5°	5875.2	5878.3	5893.6	5909.0	5936.6	5970.3	5988.8	6013.5	6056.4	6102.4	6130.1
15°	5758.5	5761.5	5773.9	5804.5	5838.4	5878.3	5918.1	5958.1	6010.3	6068.7	6117.9
17.5°	5644.8	5647.9	5657.1	5691.0	5734.0	5786.2	5832.2	5884.4	5952.0	6019.5	6081.0
20°	5540.4	5537.4	5552.7	5583.4	5638.8	5687.8	5734.0	5795.4	5869.1	5952.0	6022.6
22.5°	5439.0	5439.0	5454.5	5485.2	5534.3	5583.4	5632.6	5697.0	5770.7	5850.6	5933.6
25°	5356.1	5353.1	5374.6	5390.0	5426.8	5475.9	5528.2	5580.4	5654.1	5743.2	5822.9
27.5°	5267.1	5264.1	5267.1	5285.6	5319.3	5356.1	5396.1	5442.2	5503.6	5577.3	5654.1
30°	5070.5	5073.6	5073.6	5089.0	5107.5	5147.3	5168.8	5214.9	5270.1	5331.6	5399.2
32.5°	4778.8	4781.8	4781.8	4788.0	4803.3	4821.8	4840.2	4874.0	4916.9	4969.2	5030.6
35°	4431.8	4431.8	4428.6	4431.8	4441.0	4441.0	4456.3	4441.0	4462.5	4493.2	4539.2
37.5°	4112.3	4106.1	4100.1	4093.9	4084.6	4069.4	4047.9	4010.9	4001.7	3989.5	3992.5
40°	3829.8	3826.8	3808.3	3792.9	3762.2	3725.4	3673.2	3608.7	3556.5	3495.1	3442.9
42.5°	3516.5	3513.4	3498.1	3470.4	3436.7	3381.4	3298.5	3212.5	3108.1	3016.0	2920.8
45°	3147.9	3157.2	3135.7	3104.9	3065.0	3012.8	2920.8	2816.2	2711.8	2592.1	2472.3
47.5°	2764.0	2761.0	2745.7	2727.2	2693.5	2641.3	2579.8	2466.2	2355.6	2245.1	2122.2
50°	2407.8	2395.5	2389.3	2371.0	2349.5	2306.5	2241.9	2149.8	2051.6	1947.1	1833.5
52.5°	2070.0	2070.0	2054.6	2042.3	2023.9	1990.1	1934.9	1861.2	1778.2	1679.9	1560.2
55°	1787.5	1781.3	1766.0	1750.6	1732.1	1710.6	1661.6	1600.1	1511.0	1415.8	1311.4
57.5°	1486.5	1483.3	1477.3	1458.8	1449.6	1428.1	1372.8	1311.4	1234.7	1151.7	1065.7
60°	1216.2	1204.0	1191.6	1179.3	1164.0	1142.5	1105.6	1053.4	988.9	915.2	829.3
62.5°	973.6	992.0	955.2	955.2	924.5	906.0	872.2	841.5	773.9	706.4	632.7
65°	758.6	758.6	743.2	730.9	712.5	691.0	657.2	626.5	577.3	525.1	472.9
67.5°	580.5	577.3	562.0	549.8	534.3	522.1	497.6	460.6	423.9	380.9	337.8
70°	426.9	423.9	420.7	399.2	386.9	371.7	353.2	328.7	301.0	270.3	230.3
72.5°	307.1	307.1	298.0	288.7	276.5	264.1	245.7	230.3	205.8	184.3	156.6
75°	196.6	193.5	193.5	178.1	178.1	159.7	147.4	138.2	125.9	113.6	89.1
77.5°	141.3	138.2	135.1	128.9	122.9	116.7	107.5	95.2	86.0	73.7	64.5
80°	95.2	89.1	86.0	86.0	76.7	73.7	76.7	58.4	55.2	46.0	39.9
82.5°	58.4	58.4	55.2	55.2	52.2	49.2	39.9	39.9	36.9	33.8	27.7
85°	30.7	39.9	27.7	30.7	27.7	30.7	27.7	21.5	18.5	15.3	15.3
87.5°	18.5	12.3	12.3	18.5	15.3	12.3	12.3	12.3	9.2	6.2	6.2
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°	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3
2.5°	6471.1	6492.6	6489.4	6517.1	6526.3	6547.8	6547.8	6563.1	6572.3	6593.8	6612.3
5°	6317.5	6351.2	6360.5	6394.2	6421.9	6455.6	6477.1	6510.9	6541.6	6587.7	6630.7
7.5°	6222.3	6249.8	6268.3	6308.2	6339.0	6375.8	6412.7	6458.7	6501.7	6557.0	6618.5
10°	6176.1	6213.1	6240.6	6280.6	6317.5	6357.4	6394.2	6446.4	6495.6	6566.3	6633.8
12.5°	6163.9	6206.9	6240.6	6296.0	6332.8	6375.8	6418.7	6477.1	6529.3	6603.0	6679.9
15°	6163.9	6222.3	6268.3	6329.7	6372.7	6428.0	6474.1	6532.4	6590.8	6667.5	6741.2
17.5°	6151.6	6222.3	6280.6	6351.2	6406.5	6461.8	6520.1	6575.5	6636.8	6710.6	6793.4
20°	6102.4	6191.6	6262.1	6345.0	6403.4	6464.9	6523.3	6584.6	6649.2	6725.9	6796.6
22.5°	6016.5	6120.9	6200.8	6289.8	6357.4	6418.7	6477.1	6538.6	6609.2	6682.9	6756.6
25°	5902.8	6001.1	6087.2	6179.2	6246.8	6314.3	6369.7	6440.3	6504.8	6575.5	6633.8
27.5°	5730.8	5835.2	5918.1	6013.5	6074.8	6139.4	6185.4	6243.8	6305.2	6363.5	6409.6
30°	5472.9	5568.1	5654.1	5740.0	5801.5	5847.6	5896.6	5942.8	5982.7	6022.6	6062.5
32.5°	5095.1	5181.2	5264.1	5343.8	5393.0	5433.0	5469.8	5497.4	5518.9	5540.4	5543.5
35°	4576.1	4646.7	4698.9	4769.6	4815.7	4852.5	4852.5	4864.7	4861.7	4852.5	4843.3
37.5°	3995.7	4023.2	4044.7	4072.4	4075.4	4075.4	4057.1	4041.7	4017.1	4010.9	3992.5
40°	3390.6	3353.7	3326.0	3289.3	3267.8	3221.6	3181.8	3154.1	3114.2	3108.1	3101.9
42.5°	2816.2	2730.3	2653.5	2589.1	2515.4	2450.8	2392.5	2349.5	2318.8	2315.6	2318.8
45°	2349.5	2251.2	2137.5	2048.5	1965.6	1885.7	1809.0	1756.8	1729.1	1722.9	1729.1
47.5°	1996.3	1882.7	1772.1	1670.7	1581.7	1492.6	1415.8	1345.2	1311.4	1302.2	1299.1
50°	1716.8	1600.1	1483.3	1378.9	1280.7	1191.6	1096.4	1028.9	985.9	970.5	958.2
52.5°	1443.5	1339.1	1219.3	1111.8	1013.5	909.0	810.8	734.0	691.0	672.6	660.3
55°	1204.0	1099.5	988.9	884.5	780.1	675.7	577.3	503.6	457.6	436.1	420.7
57.5°	961.2	863.0	767.8	663.4	577.3	476.1	377.7	313.3	273.3	248.8	236.5
60°	743.2	666.4	583.5	497.6	414.6	331.7	251.8	190.4	159.7	141.3	125.9
62.5°	562.0	497.6	442.2	368.5	304.0	233.4	172.0	122.9	95.2	79.9	73.7
65°	405.4	356.2	307.1	261.0	215.0	162.8	116.7	79.9	55.2	46.0	43.0
67.5°	288.7	248.8	211.9	181.1	147.4	116.7	82.9	55.2	43.0	36.9	33.8
70°	202.6	172.0	147.4	119.8	98.2	76.7	64.5	39.9	24.5	27.7	21.5
72.5°	135.1	113.6	101.4	82.9	67.5	55.2	39.9	27.7	27.7	21.5	18.5
75°	73.7	67.5	52.2	39.9	33.8	30.7	12.3	6.2	3.0	9.2	3.0
77.5°	52.2	46.0	39.9	33.8	27.7	21.5	12.3	12.3	9.2	12.3	6.2
80°	33.8	27.7	24.5	24.5	15.3	9.2	6.2	6.2	9.2	3.0	3.0
82.5°	21.5	18.5	15.3	15.3	15.3	9.2	9.2	9.2	9.2	6.2	6.2
85°	12.3	9.2	6.2	6.2	3.0	6.2	0.0	3.0	3.0	0.0	0.0
87.5°	6.2	3.0	3.0	3.0	3.0	0.0	0.0	3.0	0.0	3.0	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3
2.5°	6624.5	6636.8	6652.2	6664.5	6692.2	6698.2	6710.6	6722.9	6732.1	6741.2	6744.4
5°	6667.5	6713.7	6756.6	6802.6	6861.0	6901.0	6947.0	6987.0	7026.9	7060.7	7085.2
7.5°	6679.9	6750.4	6815.0	6894.8	6980.8	7054.6	7131.3	7208.1	7287.9	7349.4	7401.6
10°	6704.4	6790.4	6873.3	6968.5	7079.1	7177.3	7272.5	7373.9	7475.3	7561.2	7638.1
12.5°	6747.4	6842.6	6931.7	7036.1	7149.8	7260.3	7364.7	7478.3	7585.9	7681.1	7767.0
15°	6818.1	6907.1	6993.2	7091.4	7205.0	7306.4	7410.8	7521.3	7628.9	7727.1	7807.0
17.5°	6864.1	6947.0	7033.0	7122.1	7217.3	7309.4	7407.7	7506.0	7604.2	7693.4	7767.0
20°	6864.1	6944.0	7008.4	7088.3	7177.3	7257.2	7337.1	7423.1	7509.0	7582.7	7653.4
22.5°	6808.8	6885.6	6934.7	6996.2	7072.9	7140.5	7183.5	7278.7	7343.2	7407.7	7459.9
25°	6679.9	6735.1	6775.1	6818.1	6879.5	6925.5	6962.4	7017.7	7082.1	7106.8	7143.6
27.5°	6446.4	6486.4	6507.9	6517.1	6547.8	6572.3	6578.5	6603.0	6630.7	6636.8	6652.2
30°	6077.9	6081.0	6071.7	6068.7	6053.3	6034.9	6031.8	6028.7	6016.5	6004.2	6007.3
32.5°	5522.0	5506.7	5469.8	5429.9	5390.0	5347.0	5322.4	5291.6	5273.2	5254.8	5233.4
35°	4803.3	4766.5	4714.3	4665.1	4619.1	4585.2	4530.0	4511.5	4493.2	4468.6	4462.5
37.5°	3958.7	3937.3	3888.1	3851.3	3826.8	3811.3	3783.7	3765.3	3765.3	3756.1	3749.9
40°	3086.5	3080.4	3062.0	3071.2	3058.9	3065.0	3062.0	3055.8	3071.2	3071.2	3077.4
42.5°	2315.6	2318.8	2328.0	2334.1	2352.5	2355.6	2371.0	2371.0	2380.2	2389.3	2395.5
45°	1722.9	1735.3	1735.3	1747.5	1766.0	1769.0	1775.1	1778.2	1784.3	1799.7	1805.8
47.5°	1292.9	1296.0	1296.0	1299.1	1305.2	1311.4	1308.4	1311.4	1320.6	1314.4	1320.6
50°	955.2	958.2	949.0	939.8	949.0	949.0	945.9	936.7	945.9	933.7	939.8
52.5°	651.2	648.0	638.8	641.9	635.7	632.7	632.7	626.5	626.5	626.5	614.2
55°	411.6	411.6	405.4	405.4	402.4	396.2	393.1	390.0	386.9	383.9	383.9
57.5°	230.3	233.4	224.3	221.1	224.3	221.1	215.0	215.0	215.0	205.8	211.9
60°	125.9	122.9	119.8	116.7	113.6	116.7	116.7	110.6	110.6	110.6	113.6
62.5°	67.5	67.5	64.5	64.5	61.4	61.4	67.5	58.4	61.4	58.4	61.4
65°	36.9	46.0	33.8	33.8	43.0	39.9	36.9	36.9	39.9	33.8	36.9
67.5°	39.9	27.7	24.5	27.7	24.5	24.5	24.5	30.7	27.7	21.5	27.7
70°	18.5	21.5	21.5	15.3	24.5	12.3	21.5	12.3	18.5	15.3	18.5
72.5°	18.5	18.5	18.5	12.3	18.5	12.3	15.3	15.3	12.3	12.3	18.5
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°	6.2	6.2	3.0	3.0	3.0	3.0	6.2	6.2	6.2	0.0	3.0
80°	6.2	6.2	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	6.2
82.5°	3.0	6.2	3.0	3.0	6.2	6.2	6.2	3.0	3.0	3.0	3.0
85°	0.0	3.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	3.0
87.5°	0.0	3.0	0.0	0.0	0.0	0.0	3.0	3.0	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: P249752

CATALOG NUMBER: LSR8B120D010 EC8B120935 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6572.3	6572.3	6572.3	6572.3
2.5°	6747.4	6750.4	6756.6	6753.6
5°	7103.6	7128.3	7140.5	7137.5
7.5°	7438.4	7481.5	7506.0	7506.0
10°	7696.4	7745.6	7782.3	7788.5
12.5°	7834.6	7889.9	7939.1	7926.7
15°	7874.5	7929.9	7978.9	7969.7
17.5°	7828.5	7883.7	7920.6	7914.4
20°	7702.6	7748.6	7785.5	7782.3
22.5°	7506.0	7546.0	7576.7	7573.5
25°	7174.3	7202.0	7226.5	7214.2
27.5°	6664.5	6673.7	6689.0	6670.7
30°	5985.8	5991.8	5998.0	5995.0
32.5°	5224.1	5221.0	5214.9	5208.7
35°	4453.3	4453.3	4456.3	4437.8
37.5°	3752.9	3749.9	3759.1	3749.9
40°	3083.5	3080.4	3092.7	3077.4
42.5°	2404.7	2414.0	2417.0	2417.0
45°	1809.0	1812.0	1815.0	1815.0
47.5°	1320.6	1323.7	1339.1	1320.6
50°	933.7	936.7	939.8	933.7
52.5°	617.3	620.4	617.3	608.0
55°	377.7	380.9	380.9	380.9
57.5°	202.6	205.8	205.8	202.6
60°	110.6	107.5	110.6	104.4
62.5°	58.4	64.5	61.4	55.2
65°	36.9	36.9	36.9	43.0
67.5°	30.7	24.5	27.7	21.5
70°	18.5	21.5	21.5	15.3
72.5°	15.3	15.3	15.3	18.5
75°	0.0	0.0	0.0	0.0
77.5°	6.2	6.2	6.2	3.0
80°	3.0	0.0	3.0	0.0
82.5°	3.0	3.0	6.2	3.0
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)