

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: P248736

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248736  
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 EC8B120950 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11271.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

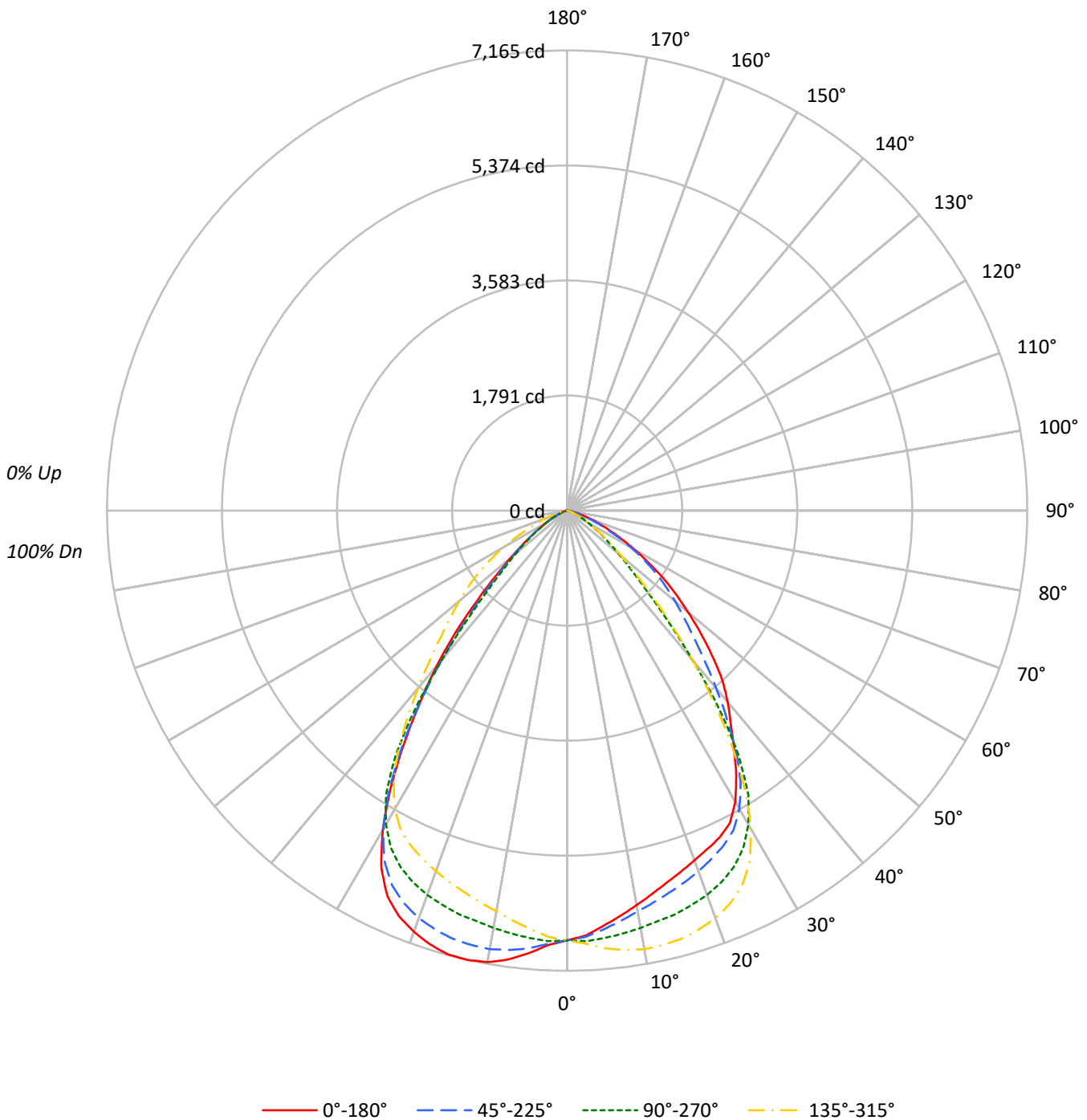
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	206332	206332	206332	206332
5°	200852	206817	214202	206817
10°	195296	206547	223530	206547
15°	191395	207772	228423	207772
20°	190093	208961	229012	208961
25°	191090	208541	225331	208541
30°	186366	200907	204518	200907
35°	170468	175260	166286	175260
40°	156507	121913	127311	121913
45°	139061	74375	86058	74375
50°	117706	49681	55174	49681
55°	97486	33902	35832	33902
60°	74353	22566	22770	22566
65°	52681	14060	12871	14060
70°	38002	9422	8547	9422
75°	24126	4682	3896	4682
80°	16835	3481	2895	3481
85°	15037	0	1132	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	636.9	5.7
10°-20°	1844.3	16.4
20°-30°	2792.6	24.8
30°-40°	2798.9	24.8
40°-50°	1757.6	15.6
50°-60°	936.6	8.3
60°-70°	385.1	3.4
70°-80°	101.8	0.9
80°-90°	17.2	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°	5273.8	46.8
0°-40°	8072.7	71.6
0°-60°	10766.9	95.5
0°-90°	11271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11271.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	6691	6691	6691	6691	6691	
5°	6489	6681	6920	6681	6489	612
15°	5995	6508	7155	6508	5995	1696
25°	5616	6129	6623	6129	5616	2576
35°	4528	4656	4417	4656	4528	2837
45°	3189	1706	1973	1706	3189	2452
55°	1813	631	666	631	1813	1617
65°	722	193	176	193	722	749
75°	202	39	33	39	202	229
85°	42	0	3	0	42	47
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°	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2
2.5°	6622.7	6616.1	6612.8	6619.4	6622.7	6635.7	6632.5	6638.9	6638.9	6642.3	6648.7
5°	6488.7	6485.3	6488.7	6488.7	6501.8	6514.8	6511.6	6521.4	6527.8	6544.2	6550.7
7.5°	6364.6	6364.6	6361.2	6374.3	6380.9	6400.5	6397.1	6413.5	6423.3	6439.6	6462.5
10°	6237.1	6237.1	6240.3	6250.1	6253.5	6282.8	6282.8	6305.7	6318.7	6335.1	6364.6
12.5°	6113.0	6113.0	6132.6	6126.0	6139.1	6161.9	6171.7	6194.6	6214.2	6246.9	6276.4
15°	5995.3	5995.3	6001.9	6018.2	6028.0	6057.4	6073.7	6099.9	6122.8	6155.5	6198.0
17.5°	5894.0	5890.8	5894.0	5913.7	5933.3	5959.4	5972.4	6005.1	6028.0	6070.5	6109.7
20°	5792.8	5799.4	5799.4	5815.6	5828.7	5861.4	5874.4	5910.4	5936.5	5975.7	6021.5
22.5°	5704.5	5701.3	5701.3	5724.2	5734.0	5763.3	5776.4	5809.0	5838.5	5871.2	5913.7
25°	5616.3	5609.7	5622.9	5626.1	5632.6	5665.3	5675.1	5698.0	5727.4	5756.9	5799.4
27.5°	5485.6	5479.2	5482.4	5495.4	5505.2	5531.3	5537.9	5560.8	5583.7	5609.7	5645.8
30°	5234.0	5227.5	5224.3	5247.2	5257.0	5276.5	5286.3	5325.6	5332.0	5361.5	5387.6
32.5°	4900.8	4897.5	4904.1	4923.6	4933.4	4959.7	4972.7	4995.6	5011.8	5028.2	5054.3
35°	4528.4	4521.8	4528.4	4548.0	4548.0	4570.9	4580.7	4590.4	4587.1	4590.4	4583.9
37.5°	4182.1	4178.7	4182.1	4191.8	4182.1	4191.8	4182.1	4162.5	4126.5	4087.3	4048.0
40°	3888.0	3891.2	3871.7	3884.8	3848.7	3842.3	3806.3	3757.3	3685.5	3607.0	3496.0
42.5°	3574.4	3564.6	3551.5	3558.0	3528.6	3505.7	3446.9	3384.9	3293.3	3162.7	3028.6
45°	3188.8	3185.6	3179.0	3175.8	3156.1	3133.3	3084.2	3012.4	2911.1	2777.2	2617.0
47.5°	2813.1	2803.3	2803.3	2806.5	2783.6	2780.4	2741.1	2679.1	2590.9	2460.2	2293.6
50°	2453.6	2450.4	2457.0	2470.0	2453.6	2447.2	2421.1	2378.6	2300.2	2189.1	2032.1
52.5°	2130.2	2127.0	2133.5	2149.8	2143.2	2149.8	2123.7	2091.0	2038.7	1930.9	1793.7
55°	1813.3	1813.3	1813.3	1832.8	1832.8	1832.8	1819.8	1800.3	1751.2	1672.8	1545.5
57.5°	1483.3	1486.6	1506.2	1509.4	1506.2	1512.8	1509.4	1489.8	1457.2	1401.7	1303.7
60°	1205.6	1205.6	1215.4	1225.3	1221.9	1225.3	1225.3	1215.4	1182.8	1137.0	1058.6
62.5°	954.0	963.8	957.2	963.8	976.9	963.8	957.2	950.8	927.9	898.5	833.1
65°	722.0	728.6	728.6	731.8	725.3	728.6	715.6	705.8	692.7	660.0	617.5
67.5°	549.0	549.0	549.0	549.0	545.6	542.4	539.1	529.3	506.5	493.4	447.6
70°	421.5	401.8	401.8	401.8	401.8	405.2	395.4	382.3	375.7	352.9	320.2
72.5°	280.9	287.5	280.9	280.9	274.5	277.7	264.7	258.1	251.6	238.6	218.9
75°	202.5	186.3	192.7	196.1	186.3	192.7	179.7	166.6	166.6	156.8	147.0
77.5°	130.7	127.5	130.7	133.9	130.7	127.5	120.9	114.3	114.3	111.1	101.3
80°	94.8	91.4	91.4	91.4	88.2	91.4	85.0	85.0	78.4	75.2	68.6
82.5°	62.1	62.1	58.8	62.1	58.8	62.1	52.3	52.3	52.3	49.0	42.5
85°	42.5	35.9	35.9	39.3	32.7	39.3	35.9	32.7	29.5	29.5	26.1
87.5°	19.6	22.9	19.6	22.9	19.6	19.6	22.9	19.6	19.6	13.0	13.0
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°	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2
2.5°	6658.6	6661.8	6661.8	6675.0	6681.4	6684.6	6684.6	6710.9	6701.1	6707.6	6714.1
5°	6563.9	6583.4	6590.0	6590.0	6625.9	6638.9	6652.0	6681.4	6684.6	6704.3	6727.1
7.5°	6472.3	6495.2	6508.3	6537.7	6560.5	6583.4	6622.7	6642.3	6661.8	6688.0	6717.3
10°	6384.1	6410.3	6436.4	6459.3	6495.2	6524.6	6550.7	6596.4	6619.4	6655.3	6694.5
12.5°	6299.2	6335.1	6358.0	6397.1	6436.4	6462.5	6501.8	6544.2	6580.2	6616.1	6661.8
15°	6224.0	6266.5	6292.6	6335.1	6377.6	6413.5	6456.0	6508.3	6534.4	6576.9	6619.4
17.5°	6142.3	6188.1	6220.8	6260.0	6312.3	6351.4	6387.4	6439.6	6472.3	6518.0	6567.1
20°	6057.4	6103.2	6142.3	6181.6	6233.9	6273.0	6315.5	6367.8	6403.7	6449.4	6488.7
22.5°	5956.2	5998.7	6041.0	6086.7	6139.1	6171.7	6220.8	6266.5	6305.7	6348.2	6387.4
25°	5825.4	5877.8	5910.4	5952.8	5995.3	6031.2	6083.5	6129.2	6161.9	6201.2	6237.1
27.5°	5671.9	5711.1	5737.2	5773.1	5815.6	5848.3	5887.4	5933.3	5966.0	6001.9	6028.0
30°	5410.4	5446.5	5469.3	5495.4	5537.9	5567.4	5600.1	5642.4	5665.3	5691.5	5714.4
32.5°	5067.4	5096.8	5109.9	5129.5	5159.0	5188.3	5214.5	5250.4	5260.2	5276.5	5276.5
35°	4570.9	4577.3	4574.1	4580.7	4593.7	4610.0	4632.9	4655.7	4668.8	4668.8	4659.1
37.5°	3989.2	3950.1	3907.6	3874.9	3865.1	3858.5	3871.7	3881.4	3894.6	3901.0	3884.8
40°	3384.9	3296.7	3201.9	3116.9	3058.1	3032.0	3022.2	3028.6	3028.6	3051.5	3051.5
42.5°	2865.4	2728.1	2587.7	2460.2	2375.2	2310.0	2280.5	2280.5	2283.8	2300.2	2310.0
45°	2434.1	2260.9	2097.5	1957.1	1839.4	1754.4	1715.3	1705.5	1702.3	1708.7	1731.6
47.5°	2104.1	1924.4	1754.4	1581.4	1457.2	1372.2	1336.3	1323.2	1310.1	1323.2	1326.5
50°	1846.0	1659.8	1480.1	1306.9	1176.2	1101.0	1055.3	1035.6	1032.4	1032.4	1039.0
52.5°	1610.7	1437.6	1257.9	1081.5	944.2	872.4	829.9	820.1	807.0	820.1	820.1
55°	1388.5	1215.4	1039.0	872.4	757.9	682.9	643.6	630.6	624.0	633.8	633.8
57.5°	1146.9	999.7	836.5	686.1	571.8	519.5	490.0	473.8	470.4	477.0	470.4
60°	941.0	816.8	676.3	539.1	450.9	395.4	372.5	365.9	359.3	365.9	365.9
62.5°	744.9	640.4	526.0	421.5	346.3	307.2	280.9	280.9	277.7	277.7	280.9
65°	552.2	470.4	388.8	300.6	241.8	212.3	192.7	192.7	189.5	192.7	189.5
67.5°	401.8	346.3	280.9	218.9	173.2	156.8	143.8	133.9	140.5	133.9	130.7
70°	294.1	248.3	202.5	166.6	133.9	117.7	107.9	104.5	98.0	98.0	98.0
72.5°	196.1	166.6	137.2	107.9	88.2	71.8	68.6	62.1	55.5	58.8	65.4
75°	130.7	111.1	98.0	78.4	58.8	58.8	39.3	39.3	32.7	39.3	29.5
77.5°	91.4	75.2	58.8	49.0	39.3	35.9	26.1	26.1	22.9	22.9	22.9
80°	65.4	55.5	42.5	35.9	26.1	26.1	22.9	19.6	16.3	16.3	19.6
82.5°	39.3	29.5	29.5	26.1	16.3	13.0	9.8	13.0	6.6	6.6	6.6
85°	22.9	19.6	16.3	9.8	6.6	6.6	3.2	0.0	3.2	3.2	0.0
87.5°	13.0	6.6	6.6	3.2	0.0	3.2	3.2	0.0	0.0	0.0	6.6
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°	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2
2.5°	6730.5	6727.1	6733.7	6733.7	6753.4	6750.0	6759.8	6759.8	6753.4	6756.6	6769.6
5°	6753.4	6763.2	6782.7	6799.1	6828.4	6841.6	6857.9	6874.3	6877.5	6887.3	6897.1
7.5°	6753.4	6786.0	6808.9	6838.2	6877.5	6900.4	6936.3	6965.7	6978.8	6995.0	7014.7
10°	6740.2	6772.9	6815.4	6848.0	6897.1	6933.0	6968.9	7014.7	7034.3	7060.4	7086.6
12.5°	6714.1	6750.0	6795.7	6838.2	6893.8	6926.4	6972.2	7014.7	7044.1	7080.0	7109.5
15°	6675.0	6717.3	6759.8	6802.3	6861.1	6900.4	6942.8	6991.8	7021.3	7060.4	7086.6
17.5°	6612.8	6658.6	6697.8	6737.0	6792.5	6838.2	6877.5	6923.2	6952.7	6985.3	7021.3
20°	6537.7	6580.2	6622.7	6655.3	6710.9	6750.0	6792.5	6835.0	6857.9	6864.4	6920.0
22.5°	6443.0	6472.3	6505.0	6557.3	6590.0	6625.9	6665.1	6704.3	6727.1	6763.2	6782.7
25°	6286.0	6315.5	6351.4	6374.3	6413.5	6443.0	6482.1	6524.6	6537.7	6563.9	6583.4
27.5°	6067.2	6083.5	6099.9	6119.4	6142.3	6158.7	6181.6	6201.2	6214.2	6227.3	6240.3
30°	5720.8	5720.8	5720.8	5707.8	5717.6	5727.4	5730.6	5727.4	5727.4	5724.2	5724.2
32.5°	5263.5	5237.4	5207.9	5181.8	5172.0	5159.0	5152.4	5142.6	5126.3	5116.5	5119.7
35°	4645.9	4587.1	4551.2	4518.6	4492.5	4472.8	4463.0	4453.2	4450.0	4436.9	4423.8
37.5°	3874.9	3832.4	3806.3	3786.7	3763.9	3744.2	3747.4	3750.8	3760.5	3754.0	3757.3
40°	3058.1	3048.3	3058.1	3035.2	3028.6	3035.2	3051.5	3074.5	3087.5	3100.6	3123.5
42.5°	2326.3	2342.5	2365.5	2365.5	2375.2	2388.4	2407.9	2443.9	2463.4	2486.3	2512.5
45°	1751.2	1770.8	1800.3	1810.0	1816.6	1832.8	1855.8	1885.2	1898.2	1917.8	1940.7
47.5°	1349.4	1362.4	1378.7	1395.1	1411.4	1418.0	1440.8	1440.8	1457.2	1470.3	1476.7
50°	1052.0	1065.1	1078.1	1088.0	1094.5	1104.4	1110.8	1120.6	1123.9	1130.4	1133.7
52.5°	823.3	839.7	839.7	846.2	856.0	865.8	862.6	865.8	869.0	869.0	878.8
55°	643.6	643.6	653.4	653.4	660.0	656.7	660.0	660.0	660.0	660.0	663.3
57.5°	480.2	483.6	493.4	486.8	483.6	490.0	483.6	490.0	486.8	493.4	483.6
60°	369.2	369.2	372.5	372.5	375.7	375.7	375.7	372.5	372.5	369.2	369.2
62.5°	277.7	280.9	284.3	280.9	280.9	280.9	277.7	277.7	274.5	271.1	271.1
65°	186.3	183.0	189.5	183.0	186.3	186.3	183.0	186.3	176.4	179.7	176.4
67.5°	133.9	130.7	127.5	130.7	127.5	124.1	124.1	127.5	130.7	120.9	120.9
70°	88.2	91.4	88.2	91.4	94.8	94.8	91.4	88.2	91.4	85.0	88.2
72.5°	55.5	55.5	55.5	55.5	55.5	58.8	58.8	58.8	52.3	52.3	49.0
75°	26.1	35.9	29.5	26.1	35.9	35.9	32.7	32.7	29.5	29.5	29.5
77.5°	26.1	19.6	19.6	19.6	19.6	19.6	19.6	19.6	16.3	19.6	16.3
80°	13.0	13.0	13.0	9.8	13.0	13.0	16.3	13.0	13.0	9.8	16.3
82.5°	6.6	6.6	6.6	0.0	3.2	6.6	6.6	3.2	6.6	6.6	3.2
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: P248736

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2
2.5°	6766.4	6763.2	6766.4	6769.6	6766.4	6763.2	6766.4	6769.6	6756.6	6753.4	6759.8
5°	6910.2	6910.2	6916.6	6920.0	6916.6	6910.2	6910.2	6897.1	6887.3	6877.5	6874.3
7.5°	7034.3	7040.9	7047.3	7050.6	7047.3	7040.9	7034.3	7014.7	6995.0	6978.8	6965.7
10°	7109.5	7119.3	7132.3	7138.8	7132.3	7119.3	7109.5	7086.6	7060.4	7034.3	7014.7
12.5°	7142.2	7152.0	7168.2	7165.0	7168.2	7152.0	7142.2	7109.5	7080.0	7044.1	7014.7
15°	7119.3	7132.3	7148.6	7155.2	7148.6	7132.3	7119.3	7086.6	7060.4	7021.3	6991.8
17.5°	7047.3	7067.0	7076.8	7086.6	7076.8	7067.0	7047.3	7021.3	6985.3	6952.7	6923.2
20°	6949.3	6962.5	6975.5	6978.8	6975.5	6962.5	6949.3	6920.0	6864.4	6857.9	6835.0
22.5°	6808.9	6818.7	6848.0	6838.2	6848.0	6818.7	6808.9	6782.7	6763.2	6727.1	6704.3
25°	6606.2	6616.1	6619.4	6622.7	6619.4	6616.1	6606.2	6583.4	6563.9	6537.7	6524.6
27.5°	6256.7	6256.7	6263.2	6266.5	6263.2	6256.7	6256.7	6240.3	6227.3	6214.2	6201.2
30°	5727.4	5727.4	5727.4	5743.8	5727.4	5727.4	5727.4	5724.2	5724.2	5727.4	5727.4
32.5°	5116.5	5109.9	5103.4	5109.9	5103.4	5109.9	5116.5	5119.7	5116.5	5126.3	5142.6
35°	4423.8	4420.5	4430.3	4417.3	4430.3	4420.5	4423.8	4423.8	4436.9	4450.0	4453.2
37.5°	3760.5	3754.0	3767.1	3754.0	3767.1	3754.0	3760.5	3757.3	3754.0	3760.5	3750.8
40°	3130.0	3136.5	3136.5	3162.7	3136.5	3136.5	3130.0	3123.5	3100.6	3087.5	3074.5
42.5°	2525.6	2545.2	2538.6	2558.2	2538.6	2545.2	2525.6	2512.5	2486.3	2463.4	2443.9
45°	1953.7	1966.9	1966.9	1973.4	1966.9	1966.9	1953.7	1940.7	1917.8	1898.2	1885.2
47.5°	1499.6	1499.6	1499.6	1503.0	1499.6	1499.6	1499.6	1476.7	1470.3	1457.2	1440.8
50°	1140.3	1143.5	1146.9	1150.1	1146.9	1143.5	1140.3	1133.7	1130.4	1123.9	1120.6
52.5°	875.6	878.8	872.4	878.8	872.4	878.8	875.6	878.8	869.0	869.0	865.8
55°	663.3	660.0	663.3	666.5	663.3	660.0	663.3	663.3	660.0	660.0	660.0
57.5°	486.8	480.2	480.2	480.2	480.2	480.2	486.8	483.6	493.4	486.8	490.0
60°	362.7	365.9	365.9	369.2	365.9	365.9	362.7	369.2	369.2	372.5	372.5
62.5°	267.9	277.7	271.1	277.7	271.1	277.7	267.9	271.1	271.1	274.5	277.7
65°	173.2	173.2	173.2	176.4	173.2	173.2	173.2	176.4	179.7	176.4	186.3
67.5°	117.7	120.9	127.5	124.1	127.5	120.9	117.7	120.9	120.9	130.7	127.5
70°	94.8	85.0	85.0	94.8	85.0	85.0	94.8	88.2	85.0	91.4	88.2
72.5°	55.5	49.0	55.5	55.5	55.5	49.0	55.5	49.0	52.3	52.3	58.8
75°	29.5	26.1	22.9	32.7	22.9	26.1	29.5	29.5	29.5	29.5	32.7
77.5°	19.6	16.3	22.9	22.9	22.9	16.3	19.6	16.3	19.6	16.3	19.6
80°	9.8	13.0	9.8	16.3	9.8	13.0	9.8	16.3	9.8	13.0	13.0
82.5°	3.2	6.6	6.6	6.6	6.6	6.6	3.2	3.2	6.6	6.6	3.2
85°	0.0	6.6	3.2	3.2	3.2	6.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.0	0.0	3.2	0.0	0.0	3.2	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: P248736

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2
2.5°	6759.8	6750.0	6753.4	6733.7	6733.7	6727.1	6730.5	6714.1	6707.6	6701.1	6710.9
5°	6857.9	6841.6	6828.4	6799.1	6782.7	6763.2	6753.4	6727.1	6704.3	6684.6	6681.4
7.5°	6936.3	6900.4	6877.5	6838.2	6808.9	6786.0	6753.4	6717.3	6688.0	6661.8	6642.3
10°	6968.9	6933.0	6897.1	6848.0	6815.4	6772.9	6740.2	6694.5	6655.3	6619.4	6596.4
12.5°	6972.2	6926.4	6893.8	6838.2	6795.7	6750.0	6714.1	6661.8	6616.1	6580.2	6544.2
15°	6942.8	6900.4	6861.1	6802.3	6759.8	6717.3	6675.0	6619.4	6576.9	6534.4	6508.3
17.5°	6877.5	6838.2	6792.5	6737.0	6697.8	6658.6	6612.8	6567.1	6518.0	6472.3	6439.6
20°	6792.5	6750.0	6710.9	6655.3	6622.7	6580.2	6537.7	6488.7	6449.4	6403.7	6367.8
22.5°	6665.1	6625.9	6590.0	6557.3	6505.0	6472.3	6443.0	6387.4	6348.2	6305.7	6266.5
25°	6482.1	6443.0	6413.5	6374.3	6351.4	6315.5	6286.0	6237.1	6201.2	6161.9	6129.2
27.5°	6181.6	6158.7	6142.3	6119.4	6099.9	6083.5	6067.2	6028.0	6001.9	5966.0	5933.3
30°	5730.6	5727.4	5717.6	5707.8	5720.8	5720.8	5720.8	5714.4	5691.5	5665.3	5642.4
32.5°	5152.4	5159.0	5172.0	5181.8	5207.9	5237.4	5263.5	5276.5	5276.5	5260.2	5250.4
35°	4463.0	4472.8	4492.5	4518.6	4551.2	4587.1	4645.9	4659.1	4668.8	4668.8	4655.7
37.5°	3747.4	3744.2	3763.9	3786.7	3806.3	3832.4	3874.9	3884.8	3901.0	3894.6	3881.4
40°	3051.5	3035.2	3028.6	3035.2	3058.1	3048.3	3058.1	3051.5	3051.5	3028.6	3028.6
42.5°	2407.9	2388.4	2375.2	2365.5	2365.5	2342.5	2326.3	2310.0	2300.2	2283.8	2280.5
45°	1855.8	1832.8	1816.6	1810.0	1800.3	1770.8	1751.2	1731.6	1708.7	1702.3	1705.5
47.5°	1440.8	1418.0	1411.4	1395.1	1378.7	1362.4	1349.4	1326.5	1323.2	1310.1	1323.2
50°	1110.8	1104.4	1094.5	1088.0	1078.1	1065.1	1052.0	1039.0	1032.4	1032.4	1035.6
52.5°	862.6	865.8	856.0	846.2	839.7	839.7	823.3	820.1	820.1	807.0	820.1
55°	660.0	656.7	660.0	653.4	653.4	643.6	643.6	633.8	633.8	624.0	630.6
57.5°	483.6	490.0	483.6	486.8	493.4	483.6	480.2	470.4	477.0	470.4	473.8
60°	375.7	375.7	375.7	372.5	372.5	369.2	369.2	365.9	365.9	359.3	365.9
62.5°	277.7	280.9	280.9	280.9	284.3	280.9	277.7	280.9	277.7	277.7	280.9
65°	183.0	186.3	186.3	183.0	189.5	183.0	186.3	189.5	192.7	189.5	192.7
67.5°	124.1	124.1	127.5	130.7	127.5	130.7	133.9	130.7	133.9	140.5	133.9
70°	91.4	94.8	94.8	91.4	88.2	91.4	88.2	98.0	98.0	98.0	104.5
72.5°	58.8	58.8	55.5	55.5	55.5	55.5	55.5	65.4	58.8	55.5	62.1
75°	32.7	35.9	35.9	26.1	29.5	35.9	26.1	29.5	39.3	32.7	39.3
77.5°	19.6	19.6	19.6	19.6	19.6	19.6	26.1	22.9	22.9	22.9	26.1
80°	16.3	13.0	13.0	9.8	13.0	13.0	13.0	19.6	16.3	16.3	19.6
82.5°	6.6	6.6	3.2	0.0	6.6	6.6	6.6	6.6	6.6	6.6	13.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	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: P248736

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2
2.5°	6684.6	6684.6	6681.4	6675.0	6661.8	6661.8	6658.6	6648.7	6642.3	6638.9	6638.9
5°	6652.0	6638.9	6625.9	6590.0	6590.0	6583.4	6563.9	6550.7	6544.2	6527.8	6521.4
7.5°	6622.7	6583.4	6560.5	6537.7	6508.3	6495.2	6472.3	6462.5	6439.6	6423.3	6413.5
10°	6550.7	6524.6	6495.2	6459.3	6436.4	6410.3	6384.1	6364.6	6335.1	6318.7	6305.7
12.5°	6501.8	6462.5	6436.4	6397.1	6358.0	6335.1	6299.2	6276.4	6246.9	6214.2	6194.6
15°	6456.0	6413.5	6377.6	6335.1	6292.6	6266.5	6224.0	6198.0	6155.5	6122.8	6099.9
17.5°	6387.4	6351.4	6312.3	6260.0	6220.8	6188.1	6142.3	6109.7	6070.5	6028.0	6005.1
20°	6315.5	6273.0	6233.9	6181.6	6142.3	6103.2	6057.4	6021.5	5975.7	5936.5	5910.4
22.5°	6220.8	6171.7	6139.1	6086.7	6041.0	5998.7	5956.2	5913.7	5871.2	5838.5	5809.0
25°	6083.5	6031.2	5995.3	5952.8	5910.4	5877.8	5825.4	5799.4	5756.9	5727.4	5698.0
27.5°	5887.4	5848.3	5815.6	5773.1	5737.2	5711.1	5671.9	5645.8	5609.7	5583.7	5560.8
30°	5600.1	5567.4	5537.9	5495.4	5469.3	5446.5	5410.4	5387.6	5361.5	5332.0	5325.6
32.5°	5214.5	5188.3	5159.0	5129.5	5109.9	5096.8	5067.4	5054.3	5028.2	5011.8	4995.6
35°	4632.9	4610.0	4593.7	4580.7	4574.1	4577.3	4570.9	4583.9	4590.4	4587.1	4590.4
37.5°	3871.7	3858.5	3865.1	3874.9	3907.6	3950.1	3989.2	4048.0	4087.3	4126.5	4162.5
40°	3022.2	3032.0	3058.1	3116.9	3201.9	3296.7	3384.9	3496.0	3607.0	3685.5	3757.3
42.5°	2280.5	2310.0	2375.2	2460.2	2587.7	2728.1	2865.4	3028.6	3162.7	3293.3	3384.9
45°	1715.3	1754.4	1839.4	1957.1	2097.5	2260.9	2434.1	2617.0	2777.2	2911.1	3012.4
47.5°	1336.3	1372.2	1457.2	1581.4	1754.4	1924.4	2104.1	2293.6	2460.2	2590.9	2679.1
50°	1055.3	1101.0	1176.2	1306.9	1480.1	1659.8	1846.0	2032.1	2189.1	2300.2	2378.6
52.5°	829.9	872.4	944.2	1081.5	1257.9	1437.6	1610.7	1793.7	1930.9	2038.7	2091.0
55°	643.6	682.9	757.9	872.4	1039.0	1215.4	1388.5	1545.5	1672.8	1751.2	1800.3
57.5°	490.0	519.5	571.8	686.1	836.5	999.7	1146.9	1303.7	1401.7	1457.2	1489.8
60°	372.5	395.4	450.9	539.1	676.3	816.8	941.0	1058.6	1137.0	1182.8	1215.4
62.5°	280.9	307.2	346.3	421.5	526.0	640.4	744.9	833.1	898.5	927.9	950.8
65°	192.7	212.3	241.8	300.6	388.8	470.4	552.2	617.5	660.0	692.7	705.8
67.5°	143.8	156.8	173.2	218.9	280.9	346.3	401.8	447.6	493.4	506.5	529.3
70°	107.9	117.7	133.9	166.6	202.5	248.3	294.1	320.2	352.9	375.7	382.3
72.5°	68.6	71.8	88.2	107.9	137.2	166.6	196.1	218.9	238.6	251.6	258.1
75°	39.3	58.8	58.8	78.4	98.0	111.1	130.7	147.0	156.8	166.6	166.6
77.5°	26.1	35.9	39.3	49.0	58.8	75.2	91.4	101.3	111.1	114.3	114.3
80°	22.9	26.1	26.1	35.9	42.5	55.5	65.4	68.6	75.2	78.4	85.0
82.5°	9.8	13.0	16.3	26.1	29.5	29.5	39.3	42.5	49.0	52.3	52.3
85°	3.2	6.6	6.6	9.8	16.3	19.6	22.9	26.1	29.5	29.5	32.7
87.5°	3.2	3.2	0.0	3.2	6.6	6.6	13.0	13.0	13.0	19.6	19.6
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: P248736

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2	6691.2
2.5°	6632.5	6635.7	6622.7	6619.4	6612.8	6616.1	6622.7
5°	6511.6	6514.8	6501.8	6488.7	6488.7	6485.3	6488.7
7.5°	6397.1	6400.5	6380.9	6374.3	6361.2	6364.6	6364.6
10°	6282.8	6282.8	6253.5	6250.1	6240.3	6237.1	6237.1
12.5°	6171.7	6161.9	6139.1	6126.0	6132.6	6113.0	6113.0
15°	6073.7	6057.4	6028.0	6018.2	6001.9	5995.3	5995.3
17.5°	5972.4	5959.4	5933.3	5913.7	5894.0	5890.8	5894.0
20°	5874.4	5861.4	5828.7	5815.6	5799.4	5799.4	5792.8
22.5°	5776.4	5763.3	5734.0	5724.2	5701.3	5701.3	5704.5
25°	5675.1	5665.3	5632.6	5626.1	5622.9	5609.7	5616.3
27.5°	5537.9	5531.3	5505.2	5495.4	5482.4	5479.2	5485.6
30°	5286.3	5276.5	5257.0	5247.2	5224.3	5227.5	5234.0
32.5°	4972.7	4959.7	4933.4	4923.6	4904.1	4897.5	4900.8
35°	4580.7	4570.9	4548.0	4548.0	4528.4	4521.8	4528.4
37.5°	4182.1	4191.8	4182.1	4191.8	4182.1	4178.7	4182.1
40°	3806.3	3842.3	3848.7	3884.8	3871.7	3891.2	3888.0
42.5°	3446.9	3505.7	3528.6	3558.0	3551.5	3564.6	3574.4
45°	3084.2	3133.3	3156.1	3175.8	3179.0	3185.6	3188.8
47.5°	2741.1	2780.4	2783.6	2806.5	2803.3	2803.3	2813.1
50°	2421.1	2447.2	2453.6	2470.0	2457.0	2450.4	2453.6
52.5°	2123.7	2149.8	2143.2	2149.8	2133.5	2127.0	2130.2
55°	1819.8	1832.8	1832.8	1832.8	1813.3	1813.3	1813.3
57.5°	1509.4	1512.8	1506.2	1509.4	1506.2	1486.6	1483.3
60°	1225.3	1225.3	1221.9	1225.3	1215.4	1205.6	1205.6
62.5°	957.2	963.8	976.9	963.8	957.2	963.8	954.0
65°	715.6	728.6	725.3	731.8	728.6	728.6	722.0
67.5°	539.1	542.4	545.6	549.0	549.0	549.0	549.0
70°	395.4	405.2	401.8	401.8	401.8	401.8	421.5
72.5°	264.7	277.7	274.5	280.9	280.9	287.5	280.9
75°	179.7	192.7	186.3	196.1	192.7	186.3	202.5
77.5°	120.9	127.5	130.7	133.9	130.7	127.5	130.7
80°	85.0	91.4	88.2	91.4	91.4	91.4	94.8
82.5°	52.3	62.1	58.8	62.1	58.8	62.1	62.1
85°	35.9	39.3	32.7	39.3	35.9	35.9	42.5
87.5°	22.9	19.6	19.6	22.9	19.6	22.9	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)