

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: P249195

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120827 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11669.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

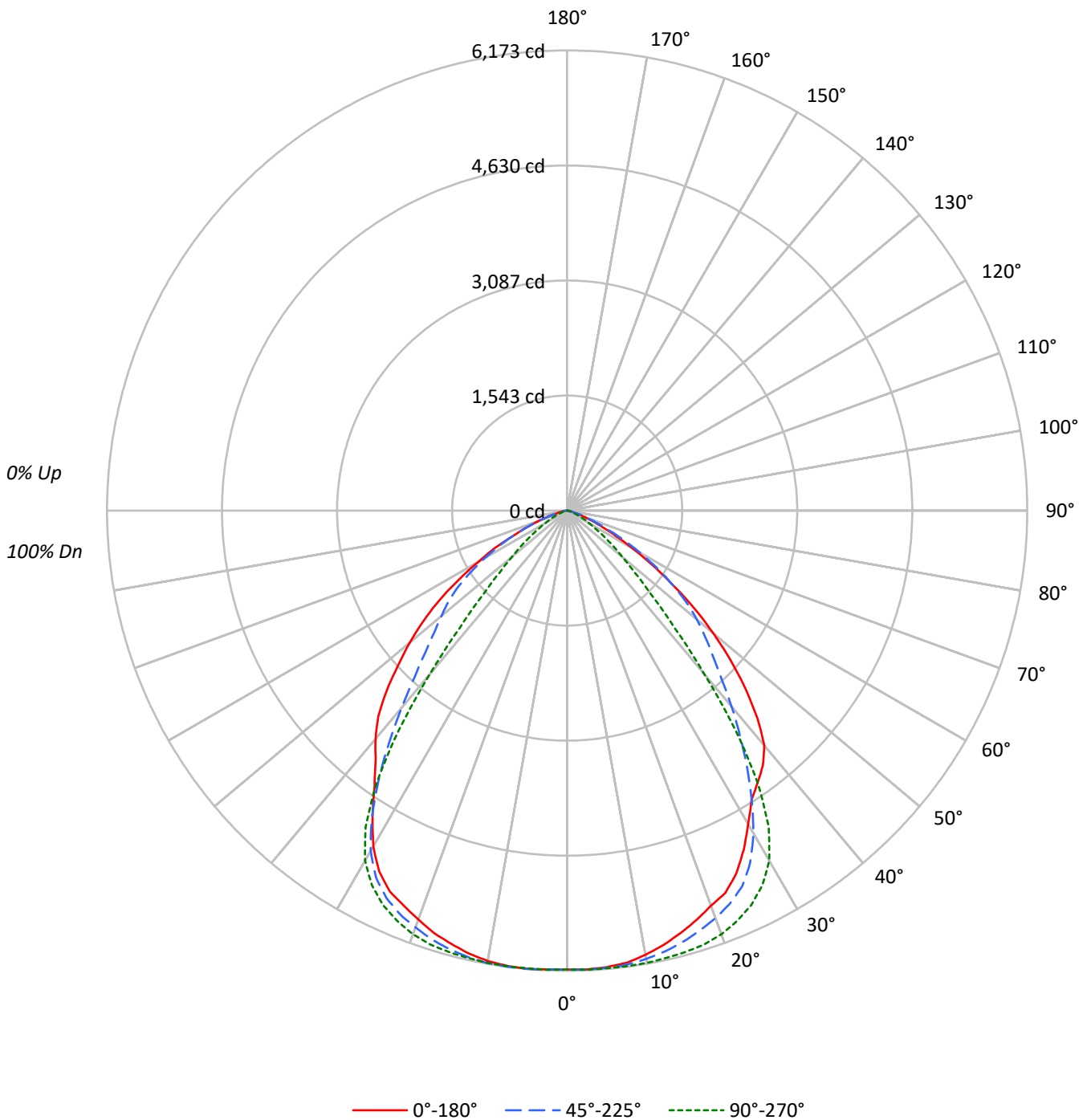
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	189853	189853	189853
5°	190269	190783	190990
10°	189469	192885	192059
15°	187369	195708	192014
20°	185121	198457	191520
25°	182716	198687	191716
30°	172860	193099	185215
35°	167701	167822	169564
40°	165621	115468	160967
45°	147578	69321	149597
50°	122710	46135	132223
55°	92034	31805	112109
60°	62370	21197	84584
65°	37621	13747	58109
70°	20854	7447	35757
75°	9448	3145	18503
80°	8222	3516	12910
85°	9341	4670	12879



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	587.6	5.0
10°-20°	1706.4	14.6
20°-30°	2590.0	22.2
30°-40°	2720.3	23.3
40°-50°	2039.5	17.5
50°-60°	1308.6	11.2
60°-70°	559.8	4.8
70°-80°	132.2	1.1
80°-90°	24.6	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°	4884.0	41.9
0°-40°	7604.3	65.2
0°-60°	10952.4	93.9
0°-90°	11669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11669.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6157	6157	6157	6157	6157	
5°	6147	6157	6163	6173	6170	584
15°	5869	5992	6130	6091	6015	1655
25°	5370	5559	5840	5734	5635	2453
35°	4455	4207	4458	4405	4504	2796
45°	3384	2766	1590	2687	3430	2592
55°	1712	1712	592	1785	2085	1553
65°	516	608	188	783	796	550
75°	79	92	26	159	155	116
85°	26	16	13	26	36	28
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°	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8
2.5°	6160.1	6166.7	6163.4	6163.4	6160.1	6163.4	6163.4	6170.1	6170.1	6163.4	6160.1
5°	6146.8	6153.5	6153.5	6146.8	6146.8	6163.4	6153.5	6160.1	6160.1	6156.8	6156.8
7.5°	6117.2	6117.2	6130.4	6120.5	6120.5	6130.4	6127.0	6133.7	6140.3	6143.6	6143.6
10°	6051.0	6057.7	6061.0	6061.0	6064.3	6074.2	6080.8	6094.0	6100.6	6107.2	6110.5
12.5°	5968.5	5978.3	5981.6	5978.3	5988.3	6001.5	6018.0	6034.5	6044.5	6057.7	6067.6
15°	5869.2	5869.2	5875.9	5885.8	5892.5	5912.3	5928.8	5948.6	5975.0	5991.6	6008.1
17.5°	5760.2	5766.9	5776.7	5776.7	5790.0	5823.0	5832.9	5862.7	5892.5	5908.9	5942.0
20°	5641.3	5647.8	5657.8	5664.4	5680.9	5707.4	5727.2	5753.6	5786.7	5816.4	5849.4
22.5°	5548.7	5535.5	5542.1	5548.7	5565.3	5588.4	5611.5	5644.5	5677.6	5707.4	5740.4
25°	5370.2	5373.6	5383.5	5390.1	5409.9	5429.8	5456.2	5495.8	5525.6	5558.7	5595.0
27.5°	5129.0	5132.3	5148.8	5148.8	5165.3	5198.4	5214.9	5248.0	5287.7	5320.7	5363.7
30°	4854.7	4861.3	4861.3	4874.6	4884.4	4901.0	4917.5	4950.6	4970.4	5000.1	5059.6
32.5°	4603.6	4610.1	4606.8	4603.6	4593.6	4590.3	4587.0	4593.6	4600.3	4610.1	4633.3
35°	4454.9	4438.3	4425.1	4402.0	4375.6	4342.5	4312.7	4273.1	4236.7	4207.0	4174.0
37.5°	4312.7	4309.4	4289.6	4256.5	4203.6	4144.2	4074.8	3988.9	3902.9	3810.4	3721.2
40°	4114.4	4104.5	4088.0	4041.8	3982.2	3909.5	3817.0	3711.3	3572.4	3430.4	3285.0
42.5°	3777.3	3780.6	3760.8	3724.4	3668.3	3598.9	3503.0	3387.4	3238.7	3070.1	2881.8
45°	3384.1	3384.1	3377.5	3347.7	3308.1	3251.9	3179.2	3083.4	2938.0	2766.1	2564.5
47.5°	2974.3	2977.6	2967.7	2961.1	2944.5	2908.2	2855.3	2782.6	2680.2	2514.9	2313.3
50°	2557.9	2557.9	2574.4	2571.1	2571.1	2557.9	2534.8	2491.8	2402.6	2270.4	2082.0
52.5°	2141.5	2148.1	2158.1	2171.2	2187.7	2214.2	2187.7	2167.9	2111.7	2009.3	1847.4
55°	1711.9	1718.5	1735.0	1758.1	1778.0	1804.4	1811.0	1811.0	1781.2	1711.9	1589.6
57.5°	1345.1	1335.1	1348.4	1368.2	1394.6	1421.1	1440.9	1464.0	1460.7	1414.4	1315.3
60°	1011.3	1014.6	1024.4	1044.3	1064.2	1087.3	1113.7	1133.5	1143.5	1120.3	1057.5
62.5°	737.0	737.0	750.2	770.0	779.9	813.0	829.5	839.4	849.3	846.0	806.4
65°	515.6	522.1	528.8	538.7	548.6	568.4	578.3	598.1	604.8	608.1	578.3
67.5°	363.6	353.6	360.2	366.8	376.7	390.0	409.8	409.8	419.7	419.7	399.9
70°	231.3	231.3	234.7	244.5	251.2	254.5	261.1	267.7	277.6	274.3	274.3
72.5°	155.3	152.0	155.3	158.7	162.0	171.8	171.8	175.1	181.8	185.1	171.8
75°	79.3	82.6	89.2	86.0	95.8	89.2	92.5	102.5	99.1	92.5	92.5
77.5°	66.1	66.1	66.1	62.8	69.4	69.4	66.1	72.7	69.4	69.4	66.1
80°	46.3	49.6	46.3	42.9	46.3	42.9	42.9	42.9	42.9	42.9	39.6
82.5°	36.4	29.8	33.1	29.8	33.1	33.1	29.8	26.4	26.4	29.8	26.4
85°	26.4	19.8	23.1	23.1	19.8	19.8	19.8	19.8	19.8	16.5	16.5
87.5°	16.5	9.9	9.9	9.9	13.2	13.2	13.2	9.9	13.2	13.2	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8
2.5°	6166.7	6163.4	6170.1	6166.7	6166.7	6163.4	6166.7	6163.4	6170.1	6156.8	6160.1
5°	6166.7	6160.1	6163.4	6166.7	6170.1	6163.4	6163.4	6163.4	6170.1	6163.4	6166.7
7.5°	6153.5	6150.2	6160.1	6166.7	6163.4	6160.1	6166.7	6163.4	6170.1	6166.7	6173.3
10°	6127.0	6130.4	6137.0	6146.8	6150.2	6153.5	6160.1	6160.1	6170.1	6156.8	6163.4
12.5°	6087.4	6100.6	6117.2	6123.7	6137.0	6137.0	6143.6	6146.8	6153.5	6150.2	6160.1
15°	6037.8	6054.3	6074.2	6090.7	6107.2	6117.2	6127.0	6130.4	6140.3	6130.4	6133.7
17.5°	5978.3	5998.1	6027.9	6047.7	6074.2	6084.1	6097.3	6103.9	6113.9	6107.2	6110.5
20°	5895.7	5918.9	5951.9	5981.6	5998.1	6021.3	6037.8	6047.7	6054.3	6047.7	6051.0
22.5°	5780.1	5813.1	5856.1	5879.2	5912.3	5932.1	5935.4	5958.5	5975.0	5958.5	5965.1
25°	5644.5	5677.6	5710.7	5760.2	5790.0	5813.1	5836.3	5839.6	5856.1	5852.8	5849.4
27.5°	5419.8	5462.8	5519.0	5558.7	5598.3	5634.7	5661.1	5667.7	5684.2	5677.6	5680.9
30°	5112.5	5158.8	5211.7	5274.4	5330.6	5366.9	5400.0	5423.1	5439.6	5429.8	5426.4
32.5°	4676.3	4722.5	4778.7	4841.5	4907.6	4960.4	5000.1	5029.9	5049.7	5043.1	5026.6
35°	4177.3	4190.5	4226.8	4276.4	4332.5	4388.7	4425.1	4458.1	4481.2	4487.9	4487.9
37.5°	3665.0	3622.1	3595.6	3595.6	3628.6	3651.8	3684.8	3704.6	3741.0	3754.2	3764.2
40°	3169.2	3070.1	2977.6	2908.2	2862.0	2858.7	2858.7	2868.5	2901.6	2944.5	2984.2
42.5°	2726.4	2567.8	2425.7	2296.8	2204.3	2151.4	2128.3	2131.6	2158.1	2197.7	2263.7
45°	2372.8	2174.6	1996.1	1840.8	1715.2	1632.5	1592.9	1589.6	1609.4	1655.7	1728.4
47.5°	2098.5	1887.0	1685.4	1507.0	1371.5	1282.2	1236.0	1222.8	1236.0	1278.9	1364.9
50°	1870.5	1652.4	1444.2	1259.1	1113.7	1021.2	978.2	961.7	978.2	1014.6	1100.5
52.5°	1659.0	1434.3	1239.3	1060.8	905.5	826.2	779.9	770.0	779.9	822.9	892.3
55°	1414.4	1222.8	1031.1	852.6	717.2	637.8	601.5	591.6	601.5	641.2	713.9
57.5°	1173.2	1008.0	839.4	677.5	561.8	492.4	459.4	446.1	469.2	495.7	581.6
60°	948.4	816.3	674.2	532.1	436.3	373.4	347.0	343.7	350.3	383.4	442.8
62.5°	743.6	634.5	522.1	406.5	327.2	300.7	267.7	264.4	271.0	290.8	337.1
65°	535.4	466.0	380.1	297.4	234.7	198.3	185.1	188.4	195.0	208.2	251.2
67.5°	373.4	323.9	264.4	208.2	162.0	145.4	132.2	128.9	132.2	155.3	178.5
70°	251.2	221.4	178.5	158.7	112.4	89.2	92.5	82.6	95.8	95.8	115.6
72.5°	165.2	145.4	118.9	92.5	79.3	62.8	62.8	59.5	66.1	69.4	86.0
75°	86.0	66.1	66.1	46.3	33.1	16.5	29.8	26.4	23.1	26.4	33.1
77.5°	59.5	49.6	46.3	36.4	33.1	26.4	26.4	26.4	26.4	29.8	33.1
80°	36.4	36.4	26.4	23.1	19.8	16.5	19.8	19.8	19.8	19.8	23.1
82.5°	23.1	19.8	19.8	16.5	16.5	13.2	13.2	13.2	13.2	13.2	19.8
85°	19.8	13.2	13.2	9.9	13.2	23.1	9.9	13.2	13.2	13.2	9.9
87.5°	6.6	9.9	9.9	9.9	6.6	3.3	6.6	9.9	9.9	16.5	13.2
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8	6156.8
2.5°	6166.7	6170.1	6170.1	6166.7	6166.7	6160.1	6173.3	6163.4	6166.7	6179.9	6170.1
5°	6173.3	6176.6	6176.6	6173.3	6173.3	6173.3	6176.6	6176.6	6173.3	6170.1	6176.6
7.5°	6186.6	6183.2	6183.2	6176.6	6176.6	6170.1	6176.6	6166.7	6173.3	6166.7	6176.6
10°	6170.1	6173.3	6170.1	6166.7	6166.7	6163.4	6163.4	6153.5	6156.8	6146.8	6153.5
12.5°	6160.1	6156.8	6156.8	6150.2	6143.6	6137.0	6133.7	6123.7	6123.7	6100.6	6110.5
15°	6133.7	6137.0	6127.0	6113.9	6107.2	6090.7	6084.1	6070.8	6057.7	6041.2	6044.5
17.5°	6110.5	6100.6	6087.4	6074.2	6047.7	6034.5	6021.3	6001.5	5994.8	5975.0	5968.5
20°	6041.2	6034.5	6018.0	5994.8	5978.3	5948.6	5935.4	5915.6	5899.0	5879.2	5869.2
22.5°	5951.9	5945.3	5925.4	5902.3	5875.9	5862.7	5849.4	5813.1	5796.6	5776.7	5773.4
25°	5839.6	5829.6	5809.8	5783.4	5770.1	5733.8	5720.5	5694.1	5687.5	5667.7	5664.4
27.5°	5667.7	5654.5	5631.3	5598.3	5575.1	5552.0	5538.8	5519.0	5512.4	5492.5	5489.3
30°	5409.9	5393.4	5347.1	5333.9	5294.2	5271.1	5271.1	5244.7	5248.0	5234.8	5234.8
32.5°	5003.5	4977.0	4940.6	4914.2	4887.7	4874.6	4874.6	4864.6	4871.2	4871.2	4877.9
35°	4464.7	4428.4	4408.5	4392.0	4392.0	4405.2	4444.9	4454.9	4474.7	4491.2	4504.4
37.5°	3774.0	3770.8	3793.9	3813.7	3863.3	3919.5	3988.9	4048.4	4104.5	4144.2	4183.8
40°	3027.2	3109.8	3175.9	3268.5	3344.4	3453.5	3579.1	3681.5	3777.3	3846.8	3919.5
42.5°	2362.9	2468.7	2607.5	2742.9	2878.5	3027.2	3192.5	3334.5	3460.1	3555.9	3631.9
45°	1840.8	1986.1	2154.7	2326.6	2501.7	2686.8	2858.7	3004.0	3136.3	3235.4	3311.4
47.5°	1483.8	1642.5	1834.1	2022.5	2220.8	2415.8	2607.5	2733.1	2842.1	2921.4	2990.9
50°	1226.0	1394.6	1596.2	1811.0	2009.3	2204.3	2369.5	2491.8	2581.1	2650.4	2693.4
52.5°	1024.4	1202.9	1417.8	1632.5	1830.8	2009.3	2158.1	2250.6	2323.3	2372.8	2412.5
55°	846.0	1017.9	1219.5	1421.1	1616.0	1784.6	1906.8	1976.3	2032.4	2062.2	2085.3
57.5°	690.7	849.3	1034.4	1219.5	1388.0	1526.8	1622.7	1692.0	1718.5	1741.6	1738.3
60°	542.0	690.7	859.2	1017.9	1163.3	1275.6	1345.1	1384.7	1404.5	1414.4	1407.8
62.5°	426.3	561.8	690.7	829.5	935.3	1031.1	1097.2	1097.2	1107.1	1110.4	1120.3
65°	317.2	419.7	532.1	634.5	720.4	783.2	819.6	829.5	842.7	839.4	832.8
67.5°	234.7	310.7	393.2	469.2	528.8	568.4	594.8	618.0	614.7	608.1	604.8
70°	162.0	211.5	284.2	330.5	373.4	413.1	419.7	423.0	426.3	429.6	423.0
72.5°	112.4	148.7	188.4	228.0	254.5	271.0	287.5	290.8	290.8	290.8	287.5
75°	56.2	76.0	112.4	128.9	152.0	158.7	171.8	171.8	181.8	168.5	165.2
77.5°	49.6	59.5	79.3	92.5	102.5	112.4	115.6	125.6	122.3	115.6	118.9
80°	29.8	36.4	49.6	56.2	69.4	72.7	76.0	79.3	76.0	79.3	79.3
82.5°	23.1	26.4	33.1	33.1	42.9	42.9	46.3	46.3	49.6	49.6	49.6
85°	13.2	23.1	19.8	39.6	26.4	26.4	33.1	39.6	33.1	33.1	39.6
87.5°	13.2	13.2	9.9	13.2	13.2	13.2	16.5	19.8	19.8	23.1	19.8
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: P249195

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6156.8	6156.8	6156.8	6156.8
2.5°	6166.7	6173.3	6163.4	6160.1
5°	6176.6	6176.6	6170.1	6170.1
7.5°	6176.6	6176.6	6166.7	6160.1
10°	6150.2	6150.2	6140.3	6133.7
12.5°	6100.6	6100.6	6097.3	6087.4
15°	6037.8	6037.8	6024.6	6014.7
17.5°	5951.9	5958.5	5942.0	5942.0
20°	5859.4	5856.1	5842.9	5836.3
22.5°	5763.6	5756.9	5753.6	5733.8
25°	5661.1	5654.5	5644.5	5634.7
27.5°	5486.0	5482.6	5472.7	5459.5
30°	5218.2	5214.9	5201.7	5201.7
32.5°	4871.2	4867.9	4854.7	4858.1
35°	4511.0	4524.3	4517.6	4504.4
37.5°	4210.3	4220.2	4226.8	4220.2
40°	3959.1	3988.9	3992.2	3998.8
42.5°	3691.5	3731.1	3744.3	3750.9
45°	3370.8	3407.2	3437.0	3430.4
47.5°	3043.7	3070.1	3096.6	3076.7
50°	2729.8	2746.3	2756.2	2756.2
52.5°	2432.3	2432.3	2429.0	2432.3
55°	2091.9	2091.9	2078.7	2085.3
57.5°	1735.0	1741.6	1731.7	1715.2
60°	1404.5	1388.0	1381.4	1371.5
62.5°	1093.9	1093.9	1070.8	1100.5
65°	819.6	809.7	799.7	796.4
67.5°	594.8	591.6	581.6	578.3
70°	419.7	406.5	403.2	396.6
72.5°	280.9	280.9	274.3	274.3
75°	171.8	155.3	152.0	155.3
77.5°	118.9	115.6	115.6	112.4
80°	79.3	76.0	82.6	72.7
82.5°	49.6	52.9	49.6	52.9
85°	33.1	39.6	36.4	36.4
87.5°	19.8	19.8	19.8	19.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)