

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: P250277

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250277  
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 EC8B1209727 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8752.0 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

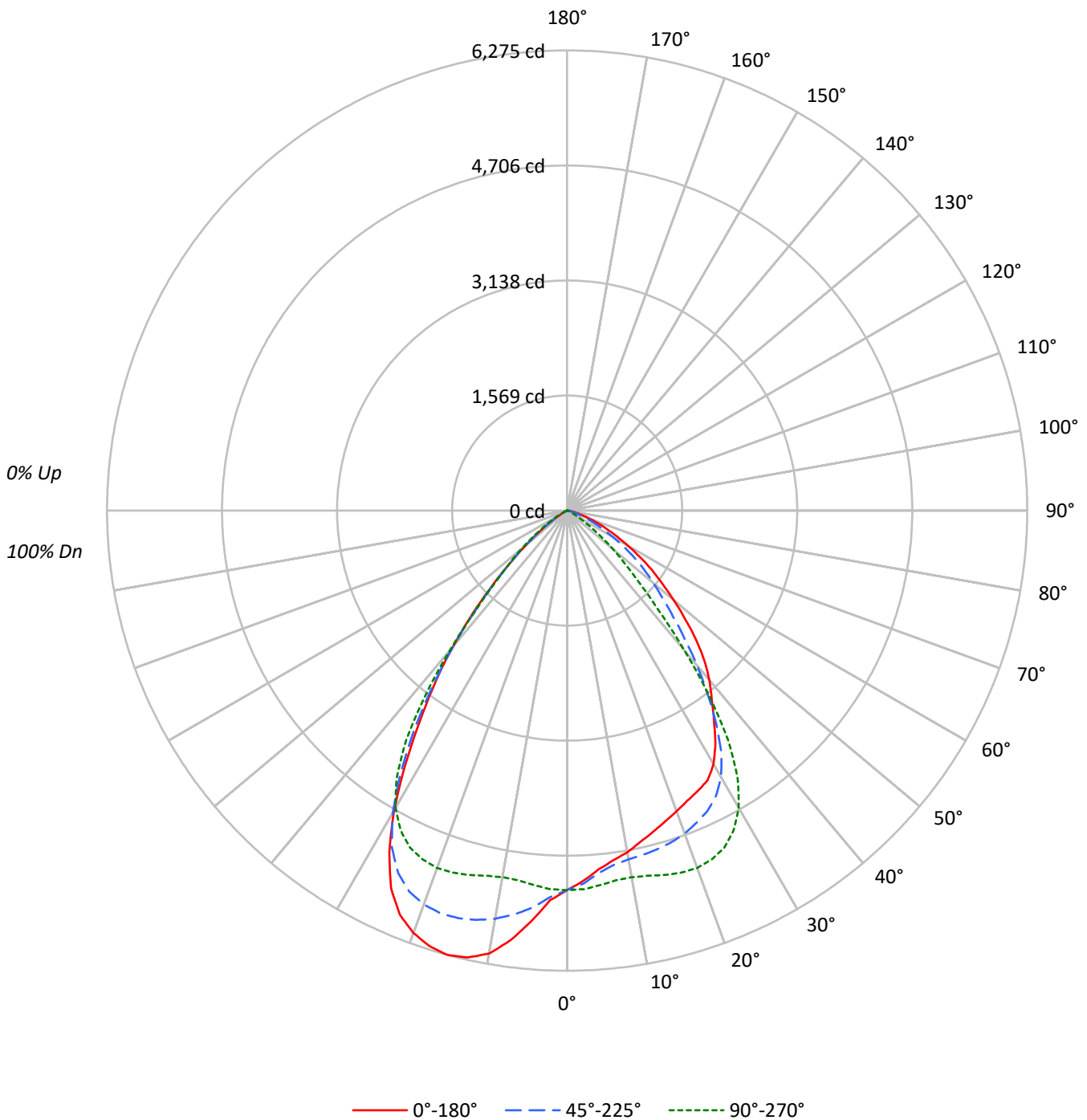
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.5	5.7
10°-20°	1489.0	17.0
20°-30°	2280.2	26.1
30°-40°	2235.3	25.5
40°-50°	1346.1	15.4
50°-60°	619.6	7.1
60°-70°	217.7	2.5
70°-80°	56.9	0.7
80°-90°	9.7	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°	4266.7	48.8
0°-40°	6502.0	74.3
0°-60°	8467.7	96.8
0°-90°	8752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8752.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5175	5175	5175	5175	5175	
5°	4912	4958	5127	5434	5620	464
15°	4534	4778	5144	5753	6275	1281
25°	4217	4522	5071	5453	5680	1942
35°	3490	3538	3830	3610	3494	2186
45°	2479	2041	1383	1393	1429	1901
55°	1408	1115	397	312	300	1256
65°	597	414	63	32	34	608
75°	155	90	5	0	0	188
85°	24	12	2	0	0	33
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°	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1
2.5°	5054.1	5059.0	5059.0	5059.0	5068.7	5071.2	5068.7	5071.2	5075.9	5092.9	5100.1
5°	4911.5	4904.2	4909.1	4906.6	4918.8	4926.0	4921.2	4928.4	4945.3	4957.5	4969.5
7.5°	4810.0	4810.0	4810.0	4814.7	4822.0	4836.5	4834.2	4838.9	4855.9	4872.8	4889.7
10°	4730.1	4727.8	4727.8	4739.8	4749.5	4766.4	4771.3	4785.8	4807.5	4829.3	4848.6
12.5°	4626.1	4628.6	4640.7	4652.8	4674.5	4701.1	4715.6	4735.0	4768.9	4805.1	4826.9
15°	4534.3	4536.6	4546.4	4570.5	4597.2	4628.6	4660.0	4691.4	4732.5	4778.5	4817.2
17.5°	4444.8	4447.2	4454.4	4481.1	4514.9	4556.0	4592.3	4633.4	4686.6	4739.8	4788.2
20°	4362.5	4360.2	4372.2	4396.4	4440.0	4478.6	4514.9	4563.3	4621.3	4686.6	4742.2
22.5°	4282.7	4282.7	4294.9	4319.1	4357.8	4396.4	4435.1	4485.9	4543.9	4606.8	4672.1
25°	4217.4	4215.0	4232.0	4244.1	4273.1	4311.8	4352.9	4394.0	4452.0	4522.2	4585.0
27.5°	4147.3	4145.0	4147.3	4161.9	4188.5	4217.4	4248.9	4285.2	4333.6	4391.6	4452.0
30°	3992.6	3995.0	3995.0	4007.1	4021.6	4053.0	4069.9	4106.2	4149.7	4198.1	4251.4
32.5°	3762.8	3765.2	3765.2	3770.1	3782.1	3796.7	3811.2	3837.8	3871.6	3912.7	3961.1
35°	3489.6	3489.6	3487.1	3489.6	3496.9	3496.9	3508.9	3496.9	3513.8	3538.0	3574.2
37.5°	3238.1	3233.2	3228.4	3223.5	3216.3	3204.2	3187.3	3158.2	3151.0	3141.3	3143.7
40°	3015.6	3013.2	2998.7	2986.5	2962.3	2933.4	2892.3	2841.5	2800.4	2752.0	2710.9
42.5°	2768.9	2766.5	2754.4	2732.6	2706.0	2662.5	2597.2	2529.6	2447.3	2374.8	2299.8
45°	2478.7	2486.0	2469.0	2444.9	2413.4	2372.3	2299.8	2217.5	2135.3	2041.0	1946.7
47.5°	2176.4	2174.0	2162.0	2147.4	2120.9	2079.7	2031.4	1941.9	1854.8	1767.8	1671.0
50°	1895.9	1886.2	1881.4	1866.9	1850.0	1816.2	1765.3	1692.7	1615.4	1533.2	1443.7
52.5°	1629.9	1629.9	1617.8	1608.1	1593.6	1567.0	1523.5	1465.5	1400.2	1322.8	1228.5
55°	1407.5	1402.6	1390.5	1378.4	1363.9	1346.9	1308.3	1260.0	1189.8	1114.8	1032.6
57.5°	1170.5	1168.0	1163.2	1148.7	1141.4	1124.5	1081.0	1032.6	972.2	906.9	839.1
60°	957.7	948.0	938.2	928.6	916.5	899.6	870.6	829.4	778.7	720.7	653.0
62.5°	766.6	781.1	752.1	752.1	727.9	713.4	686.8	662.6	609.4	556.2	498.2
65°	597.3	597.3	585.2	575.5	561.0	544.1	517.5	493.3	454.6	413.5	372.4
67.5°	457.1	454.6	442.5	432.9	420.7	411.1	391.8	362.7	333.8	299.9	266.0
70°	336.1	333.8	331.3	314.3	304.7	292.6	278.1	258.8	237.0	212.8	181.4
72.5°	241.8	241.8	234.6	227.3	217.7	207.9	193.5	181.4	162.0	145.1	123.3
75°	154.8	152.4	152.4	140.2	140.2	125.7	116.1	108.8	99.1	89.5	70.2
77.5°	111.3	108.8	106.4	101.5	96.8	91.9	84.6	75.0	67.7	58.0	50.8
80°	75.0	70.2	67.7	67.7	60.4	58.0	60.4	46.0	43.5	36.2	31.5
82.5°	46.0	46.0	43.5	43.5	41.1	38.7	31.5	31.5	29.1	26.6	21.8
85°	24.2	31.5	21.8	24.2	21.8	24.2	21.8	16.9	14.5	12.0	12.0
87.5°	14.5	9.7	9.7	14.5	12.0	9.7	9.7	9.7	7.3	4.9	4.9
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°	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1
2.5°	5095.3	5112.3	5109.8	5131.6	5138.8	5155.8	5155.8	5167.8	5175.1	5192.0	5206.5
5°	4974.4	5001.0	5008.3	5034.8	5056.6	5083.2	5100.1	5126.7	5150.9	5187.2	5221.1
7.5°	4899.5	4921.2	4935.7	4967.1	4991.3	5020.3	5049.4	5085.6	5119.4	5163.0	5211.4
10°	4863.1	4892.2	4913.9	4945.3	4974.4	5005.9	5034.8	5075.9	5114.7	5170.3	5223.5
12.5°	4853.5	4887.3	4913.9	4957.5	4986.5	5020.3	5054.1	5100.1	5141.2	5199.3	5259.8
15°	4853.5	4899.5	4935.7	4984.1	5017.9	5061.4	5097.7	5143.6	5189.6	5250.0	5308.1
17.5°	4843.8	4899.5	4945.3	5001.0	5044.5	5088.1	5134.0	5177.6	5225.8	5284.0	5349.2
20°	4805.1	4875.3	4930.8	4996.1	5042.1	5090.5	5136.5	5184.7	5235.6	5296.0	5351.7
22.5°	4737.4	4819.6	4882.5	4952.6	5005.9	5054.1	5100.1	5148.5	5204.1	5262.2	5320.2
25°	4647.9	4725.3	4793.0	4865.5	4918.8	4971.9	5015.5	5071.2	5121.9	5177.6	5223.5
27.5°	4512.5	4594.7	4660.0	4735.0	4783.3	4834.2	4870.4	4916.4	4964.8	5010.6	5047.0
30°	4309.4	4384.3	4452.0	4519.7	4568.1	4604.4	4643.0	4679.4	4710.8	4742.2	4773.6
32.5°	4011.9	4079.7	4145.0	4207.8	4246.5	4277.9	4306.9	4328.7	4345.6	4362.5	4364.9
35°	3603.3	3658.8	3699.9	3755.6	3791.9	3820.9	3820.9	3830.5	3828.1	3820.9	3813.6
37.5°	3146.2	3167.9	3184.8	3206.6	3209.0	3209.0	3194.6	3182.4	3163.1	3158.2	3143.7
40°	2669.8	2640.7	2618.9	2590.0	2573.1	2536.7	2505.4	2483.6	2452.1	2447.3	2442.5
42.5°	2217.5	2149.8	2089.4	2038.6	1980.6	1929.7	1883.9	1850.0	1825.8	1823.3	1825.8
45°	1850.0	1772.6	1683.1	1613.0	1547.7	1484.8	1424.4	1383.3	1361.5	1356.6	1361.5
47.5°	1571.9	1482.4	1395.3	1315.5	1245.4	1175.2	1114.8	1059.2	1032.6	1025.3	1023.0
50°	1351.8	1260.0	1168.0	1085.8	1008.4	938.2	863.3	810.1	776.3	764.2	754.5
52.5°	1136.6	1054.4	960.0	875.4	798.0	715.8	638.4	577.9	544.1	529.6	519.9
55°	948.0	865.8	778.7	696.5	614.2	532.0	454.6	396.6	360.3	343.4	331.3
57.5°	756.9	679.5	604.6	522.4	454.6	374.9	297.4	246.7	215.2	195.9	186.2
60°	585.2	524.8	459.5	391.8	326.5	261.2	198.3	149.9	125.7	111.3	99.1
62.5°	442.5	391.8	348.2	290.2	239.4	183.7	135.5	96.8	75.0	62.9	58.0
65°	319.2	280.5	241.8	205.5	169.3	128.2	91.9	62.9	43.5	36.2	33.8
67.5°	227.3	195.9	166.8	142.6	116.1	91.9	65.3	43.5	33.8	29.1	26.6
70°	159.6	135.5	116.1	94.4	77.3	60.4	50.8	31.5	19.3	21.8	16.9
72.5°	106.4	89.5	79.8	65.3	53.2	43.5	31.5	21.8	21.8	16.9	14.5
75°	58.0	53.2	41.1	31.5	26.6	24.2	9.7	4.9	2.4	7.3	2.4
77.5°	41.1	36.2	31.5	26.6	21.8	16.9	9.7	9.7	7.3	9.7	4.9
80°	26.6	21.8	19.3	19.3	12.0	7.3	4.9	4.9	7.3	2.4	2.4
82.5°	16.9	14.5	12.0	12.0	12.0	7.3	7.3	7.3	7.3	4.9	4.9
85°	9.7	7.3	4.9	4.9	2.4	4.9	0.0	2.4	2.4	0.0	0.0
87.5°	4.9	2.4	2.4	2.4	2.4	0.0	0.0	2.4	0.0	2.4	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°	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1	5175.1
2.5°	5216.2	5225.8	5238.0	5247.6	5269.4	5274.2	5284.0	5293.6	5300.9	5308.1	5310.5
5°	5250.0	5286.4	5320.2	5356.4	5402.4	5433.9	5470.1	5501.6	5533.0	5559.6	5578.9
7.5°	5259.8	5315.3	5366.2	5429.0	5496.7	5554.8	5615.2	5675.7	5738.6	5786.9	5828.0
10°	5279.1	5346.8	5412.1	5487.0	5574.1	5651.5	5726.4	5806.2	5886.1	5953.8	6014.3
12.5°	5312.9	5387.9	5458.1	5540.3	5629.8	5716.8	5799.0	5888.5	5973.2	6048.1	6115.8
15°	5368.6	5438.7	5506.4	5583.8	5673.3	5753.1	5835.3	5922.3	6007.0	6084.4	6147.3
17.5°	5404.8	5470.1	5537.8	5608.0	5682.9	5755.5	5832.8	5910.3	5987.6	6057.8	6115.8
20°	5404.8	5467.7	5518.5	5581.4	5651.5	5714.4	5777.3	5845.0	5912.7	5970.7	6026.3
22.5°	5361.3	5421.7	5460.5	5508.8	5569.2	5622.5	5656.3	5731.3	5782.1	5832.8	5873.9
25°	5259.8	5303.3	5334.7	5368.6	5417.0	5453.2	5482.3	5525.7	5576.5	5595.9	5624.9
27.5°	5075.9	5107.4	5124.3	5131.6	5155.8	5175.1	5180.0	5199.3	5221.1	5225.8	5238.0
30°	4785.8	4788.2	4780.9	4778.5	4766.4	4751.9	4749.5	4747.1	4737.4	4727.8	4730.1
32.5°	4348.0	4336.0	4306.9	4275.6	4244.1	4210.3	4190.8	4166.7	4152.1	4137.7	4120.8
35°	3782.1	3753.2	3712.1	3673.3	3637.1	3610.4	3566.9	3552.4	3538.0	3518.6	3513.8
37.5°	3117.1	3100.2	3061.5	3032.5	3013.2	3001.1	2979.3	2964.8	2964.8	2957.6	2952.7
40°	2430.3	2425.5	2411.0	2418.3	2408.6	2413.4	2411.0	2406.1	2418.3	2418.3	2423.2
42.5°	1823.3	1825.8	1833.1	1837.9	1852.4	1854.8	1866.9	1866.9	1874.2	1881.4	1886.2
45°	1356.6	1366.4	1366.4	1376.0	1390.5	1392.9	1397.7	1400.2	1405.0	1417.1	1421.9
47.5°	1018.1	1020.5	1020.5	1023.0	1027.7	1032.6	1030.2	1032.6	1039.9	1035.0	1039.9
50°	752.1	754.5	747.2	740.0	747.2	747.2	744.8	737.6	744.8	735.2	740.0
52.5°	512.7	510.2	503.0	505.5	500.6	498.2	498.2	493.3	493.3	493.3	483.7
55°	324.1	324.1	319.2	319.2	316.8	312.0	309.6	307.1	304.7	302.3	302.3
57.5°	181.4	183.7	176.6	174.1	176.6	174.1	169.3	169.3	169.3	162.0	166.8
60°	99.1	96.8	94.4	91.9	89.5	91.9	91.9	87.1	87.1	87.1	89.5
62.5°	53.2	53.2	50.8	50.8	48.4	48.4	53.2	46.0	48.4	46.0	48.4
65°	29.1	36.2	26.6	26.6	33.8	31.5	29.1	29.1	31.5	26.6	29.1
67.5°	31.5	21.8	19.3	21.8	19.3	19.3	19.3	24.2	21.8	16.9	21.8
70°	14.5	16.9	16.9	12.0	19.3	9.7	16.9	9.7	14.5	12.0	14.5
72.5°	14.5	14.5	14.5	9.7	14.5	9.7	12.0	12.0	9.7	9.7	14.5
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°	4.9	4.9	2.4	2.4	2.4	2.4	4.9	4.9	4.9	0.0	2.4
80°	4.9	4.9	0.0	2.4	0.0	0.0	2.4	0.0	2.4	0.0	4.9
82.5°	2.4	4.9	2.4	2.4	4.9	4.9	4.9	2.4	2.4	2.4	2.4
85°	0.0	2.4	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	2.4
87.5°	0.0	2.4	0.0	0.0	0.0	0.0	2.4	2.4	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: P250277

CATALOG NUMBER: LSR8B120D010 EC8B1209727 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	5175.1	5175.1	5175.1	5175.1
2.5°	5312.9	5315.3	5320.2	5317.8
5°	5593.4	5612.8	5622.5	5620.1
7.5°	5857.0	5891.0	5910.3	5910.3
10°	6060.2	6098.9	6127.9	6132.7
12.5°	6169.0	6212.6	6251.3	6241.5
15°	6200.4	6244.0	6282.6	6275.4
17.5°	6164.2	6207.7	6236.7	6231.9
20°	6065.0	6101.3	6130.3	6127.9
22.5°	5910.3	5941.7	5965.9	5963.4
25°	5649.1	5670.9	5690.2	5680.5
27.5°	5247.6	5254.9	5266.9	5252.5
30°	4713.2	4718.0	4722.9	4720.5
32.5°	4113.5	4111.0	4106.2	4101.4
35°	3506.5	3506.5	3508.9	3494.4
37.5°	2955.1	2952.7	2960.0	2952.7
40°	2427.9	2425.5	2435.2	2423.2
42.5°	1893.5	1900.8	1903.2	1903.2
45°	1424.4	1426.8	1429.2	1429.2
47.5°	1039.9	1042.3	1054.4	1039.9
50°	735.2	737.6	740.0	735.2
52.5°	486.0	488.5	486.0	478.8
55°	297.4	299.9	299.9	299.9
57.5°	159.6	162.0	162.0	159.6
60°	87.1	84.6	87.1	82.2
62.5°	46.0	50.8	48.4	43.5
65°	29.1	29.1	29.1	33.8
67.5°	24.2	19.3	21.8	16.9
70°	14.5	16.9	16.9	12.0
72.5°	12.0	12.0	12.0	14.5
75°	0.0	0.0	0.0	0.0
77.5°	4.9	4.9	4.9	2.4
80°	2.4	0.0	2.4	0.0
82.5°	2.4	2.4	4.9	2.4
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)