

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: P249294

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249294  
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 EC8B1209730 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9163.0 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

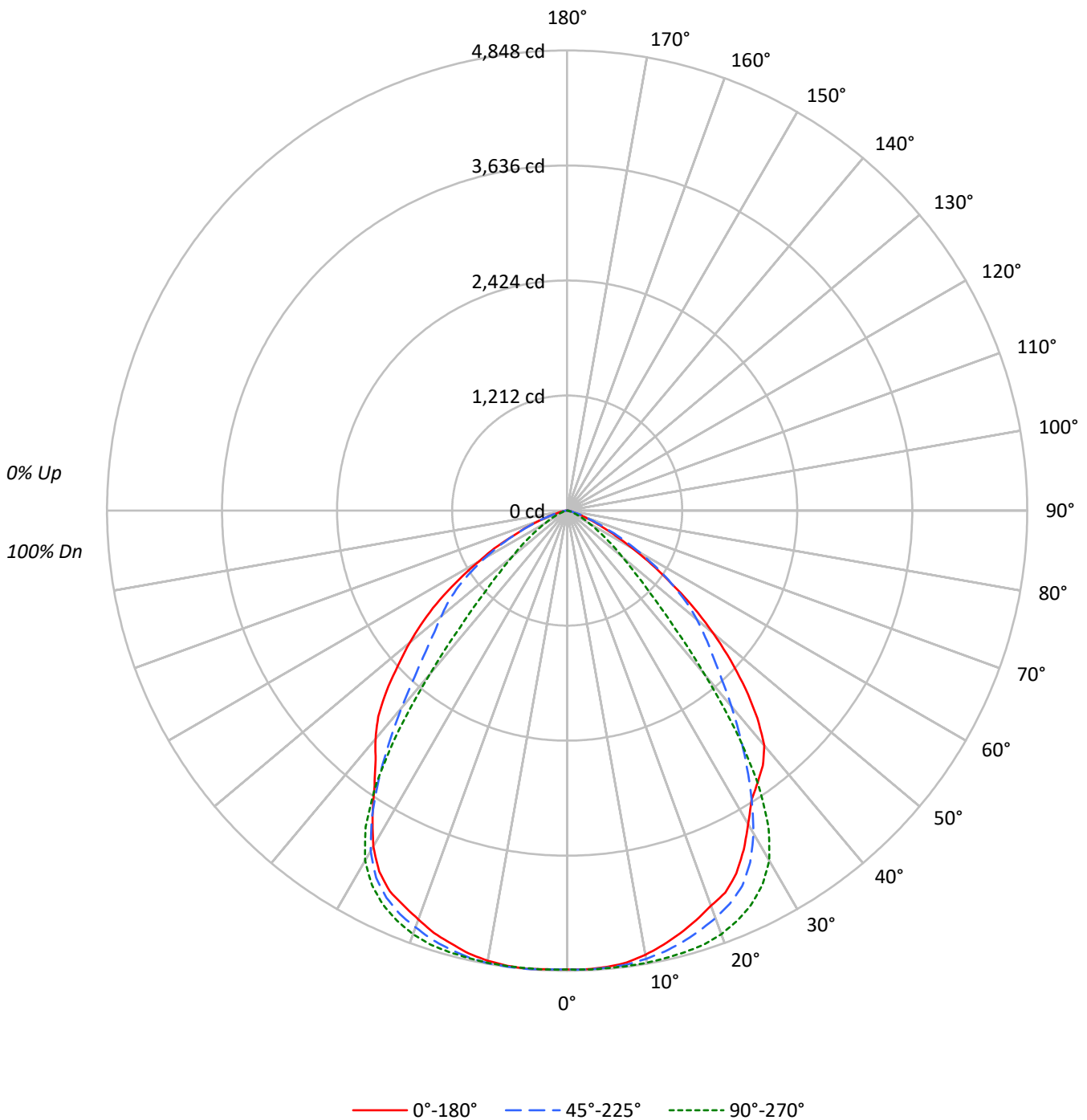
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

**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°	461.4	5.0
10°-20°	1339.9	14.6
20°-30°	2033.8	22.2
30°-40°	2136.1	23.3
40°-50°	1601.5	17.5
50°-60°	1027.6	11.2
60°-70°	439.6	4.8
70°-80°	103.9	1.1
80°-90°	19.3	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°	3835.1	41.9
0°-40°	5971.2	65.2
0°-60°	8600.3	93.9
0°-90°	9163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9163.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4835	4835	4835	4835	4835	
5°	4827	4835	4840	4848	4845	458
15°	4609	4705	4814	4783	4723	1300
25°	4217	4365	4586	4502	4425	1926
35°	3498	3304	3501	3459	3537	2196
45°	2657	2172	1248	2110	2694	2035
55°	1344	1344	464	1401	1638	1219
65°	405	478	148	615	625	432
75°	62	73	21	125	122	91
85°	21	13	10	21	29	22
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°	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6
2.5°	4837.2	4842.4	4839.8	4839.8	4837.2	4839.8	4839.8	4845.0	4845.0	4839.8	4837.2
5°	4826.8	4832.0	4832.0	4826.8	4826.8	4839.8	4832.0	4837.2	4837.2	4834.6	4834.6
7.5°	4803.5	4803.5	4813.8	4806.1	4806.1	4813.8	4811.2	4816.4	4821.6	4824.2	4824.2
10°	4751.5	4756.7	4759.3	4759.3	4761.9	4769.7	4774.9	4785.3	4790.4	4795.7	4798.3
12.5°	4686.7	4694.4	4697.0	4694.4	4702.3	4712.6	4725.6	4738.6	4746.4	4756.7	4764.5
15°	4608.8	4608.8	4614.0	4621.8	4627.0	4642.6	4655.5	4671.1	4691.8	4704.9	4717.8
17.5°	4523.2	4528.4	4536.1	4536.1	4546.6	4572.5	4580.3	4603.6	4627.0	4640.0	4665.9
20°	4429.8	4434.9	4442.7	4447.9	4460.9	4481.7	4497.2	4518.0	4544.0	4567.3	4593.2
22.5°	4357.1	4346.7	4351.9	4357.1	4370.1	4388.3	4406.4	4432.3	4458.3	4481.7	4507.6
25°	4216.9	4219.5	4227.4	4232.5	4248.1	4263.7	4284.4	4315.6	4338.9	4364.9	4393.4
27.5°	4027.5	4030.1	4043.1	4043.1	4056.0	4082.0	4095.0	4120.9	4152.1	4178.0	4211.8
30°	3812.2	3817.3	3817.3	3827.7	3835.5	3848.5	3861.4	3887.4	3903.0	3926.3	3973.1
32.5°	3614.9	3620.1	3617.5	3614.9	3607.1	3604.5	3601.9	3607.1	3612.3	3620.1	3638.2
35°	3498.2	3485.1	3474.8	3456.6	3435.9	3409.9	3386.5	3355.4	3326.8	3303.5	3277.6
37.5°	3386.5	3383.9	3368.4	3342.4	3300.9	3254.2	3199.7	3132.2	3064.7	2992.1	2922.1
40°	3230.8	3223.0	3210.1	3173.8	3127.0	3069.9	2997.3	2914.2	2805.2	2693.7	2579.5
42.5°	2966.1	2968.7	2953.2	2924.6	2880.5	2826.0	2750.7	2659.9	2543.2	2410.8	2262.9
45°	2657.3	2657.3	2652.1	2628.8	2597.7	2553.5	2496.4	2421.2	2307.0	2172.0	2013.7
47.5°	2335.5	2338.1	2330.3	2325.2	2312.2	2283.7	2242.1	2185.0	2104.6	1974.8	1816.5
50°	2008.6	2008.6	2021.5	2018.9	2018.9	2008.6	1990.4	1956.7	1886.6	1782.8	1634.9
52.5°	1681.6	1686.8	1694.6	1705.0	1717.9	1738.7	1717.9	1702.3	1658.2	1577.8	1450.6
55°	1344.2	1349.4	1362.4	1380.5	1396.2	1416.9	1422.1	1422.1	1398.7	1344.2	1248.2
57.5°	1056.2	1048.4	1058.8	1074.4	1095.1	1115.9	1131.4	1149.6	1147.0	1110.7	1032.8
60°	794.1	796.7	804.4	820.1	835.6	853.8	874.5	890.1	897.9	879.7	830.4
62.5°	578.7	578.7	589.1	604.6	612.4	638.4	651.4	659.2	666.9	664.3	633.2
65°	404.9	410.0	415.2	423.0	430.8	446.3	454.1	469.7	474.9	477.5	454.1
67.5°	285.5	277.7	282.9	288.0	295.8	306.2	321.8	321.8	329.5	329.5	314.0
70°	181.7	181.7	184.3	192.0	197.2	199.8	205.0	210.2	218.0	215.4	215.4
72.5°	122.0	119.4	122.0	124.6	127.2	134.9	134.9	137.5	142.7	145.3	134.9
75°	62.3	64.9	70.0	67.5	75.2	70.0	72.6	80.5	77.8	72.6	72.6
77.5°	51.9	51.9	51.9	49.3	54.5	54.5	51.9	57.1	54.5	54.5	51.9
80°	36.3	38.9	36.3	33.7	36.3	33.7	33.7	33.7	33.7	33.7	31.1
82.5°	28.6	23.4	26.0	23.4	26.0	26.0	23.4	20.8	20.8	23.4	20.8
85°	20.8	15.6	18.2	18.2	15.6	15.6	15.6	15.6	15.6	13.0	13.0
87.5°	13.0	7.8	7.8	7.8	10.4	10.4	10.4	7.8	10.4	10.4	5.2
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°	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6
2.5°	4842.4	4839.8	4845.0	4842.4	4842.4	4839.8	4842.4	4839.8	4845.0	4834.6	4837.2
5°	4842.4	4837.2	4839.8	4842.4	4845.0	4839.8	4839.8	4839.8	4845.0	4839.8	4842.4
7.5°	4832.0	4829.4	4837.2	4842.4	4839.8	4837.2	4842.4	4839.8	4845.0	4842.4	4847.5
10°	4811.2	4813.8	4819.0	4826.8	4829.4	4832.0	4837.2	4837.2	4845.0	4834.6	4839.8
12.5°	4780.1	4790.4	4803.5	4808.6	4819.0	4819.0	4824.2	4826.8	4832.0	4829.4	4837.2
15°	4741.2	4754.1	4769.7	4782.7	4795.7	4803.5	4811.2	4813.8	4821.6	4813.8	4816.4
17.5°	4694.4	4710.0	4733.4	4748.9	4769.7	4777.5	4787.8	4793.1	4800.9	4795.7	4798.3
20°	4629.5	4647.8	4673.7	4697.0	4710.0	4728.2	4741.2	4748.9	4754.1	4748.9	4751.5
22.5°	4538.7	4564.7	4598.4	4616.6	4642.6	4658.1	4660.7	4678.9	4691.8	4678.9	4684.1
25°	4432.3	4458.3	4484.3	4523.2	4546.6	4564.7	4582.9	4585.5	4598.4	4595.8	4593.2
27.5°	4255.9	4289.6	4333.7	4364.9	4396.0	4424.6	4445.3	4450.5	4463.5	4458.3	4460.9
30°	4014.5	4050.9	4092.4	4141.7	4185.8	4214.3	4240.3	4258.5	4271.4	4263.7	4261.1
32.5°	3672.0	3708.3	3752.5	3801.7	3853.7	3895.1	3926.3	3949.7	3965.2	3960.0	3947.1
35°	3280.2	3290.5	3319.1	3358.0	3402.1	3446.2	3474.8	3500.7	3518.9	3524.1	3524.1
37.5°	2877.9	2844.2	2823.4	2823.4	2849.4	2867.5	2893.5	2909.0	2937.6	2948.0	2955.8
40°	2488.6	2410.8	2338.1	2283.7	2247.3	2244.7	2244.7	2252.5	2278.5	2312.2	2343.3
42.5°	2140.9	2016.3	1904.8	1803.6	1730.9	1689.4	1671.2	1673.8	1694.6	1725.7	1777.6
45°	1863.2	1707.6	1567.4	1445.4	1346.8	1281.9	1250.8	1248.2	1263.8	1300.1	1357.2
47.5°	1647.9	1481.8	1323.5	1183.3	1077.0	1006.9	970.5	960.2	970.5	1004.3	1071.8
50°	1468.8	1297.6	1134.1	988.7	874.5	801.9	768.1	755.2	768.1	796.7	864.1
52.5°	1302.7	1126.2	973.2	833.0	711.0	648.7	612.4	604.6	612.4	646.1	700.7
55°	1110.7	960.2	809.6	669.5	563.2	500.9	472.3	464.5	472.3	503.5	560.5
57.5°	921.3	791.5	659.2	532.0	441.2	386.6	360.7	350.3	368.5	389.2	456.7
60°	744.8	641.0	529.4	417.8	342.6	293.2	272.5	269.9	275.1	301.0	347.7
62.5°	583.9	498.3	410.0	319.2	256.9	236.1	210.2	207.6	212.8	228.3	264.7
65°	420.4	365.9	298.4	233.5	184.3	155.7	145.3	147.9	153.1	163.5	197.2
67.5°	293.2	254.3	207.6	163.5	127.2	114.2	103.8	101.2	103.8	122.0	140.1
70°	197.2	173.9	140.1	124.6	88.3	70.0	72.6	64.9	75.2	75.2	90.8
72.5°	129.7	114.2	93.4	72.6	62.3	49.3	49.3	46.7	51.9	54.5	67.5
75°	67.5	51.9	51.9	36.3	26.0	13.0	23.4	20.8	18.2	20.8	26.0
77.5°	46.7	38.9	36.3	28.6	26.0	20.8	20.8	20.8	20.8	23.4	26.0
80°	28.6	28.6	20.8	18.2	15.6	13.0	15.6	15.6	15.6	15.6	18.2
82.5°	18.2	15.6	15.6	13.0	13.0	10.4	10.4	10.4	10.4	10.4	15.6
85°	15.6	10.4	10.4	7.8	10.4	18.2	7.8	10.4	10.4	10.4	7.8
87.5°	5.2	7.8	7.8	7.8	5.2	2.6	5.2	7.8	7.8	13.0	10.4
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°	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6	4834.6
2.5°	4842.4	4845.0	4845.0	4842.4	4842.4	4837.2	4847.5	4839.8	4842.4	4852.7	4845.0
5°	4847.5	4850.1	4850.1	4847.5	4847.5	4847.5	4850.1	4850.1	4847.5	4845.0	4850.1
7.5°	4857.9	4855.3	4855.3	4850.1	4850.1	4845.0	4850.1	4842.4	4847.5	4842.4	4850.1
10°	4845.0	4847.5	4845.0	4842.4	4842.4	4839.8	4839.8	4832.0	4834.6	4826.8	4832.0
12.5°	4837.2	4834.6	4834.6	4829.4	4824.2	4819.0	4816.4	4808.6	4808.6	4790.4	4798.3
15°	4816.4	4819.0	4811.2	4800.9	4795.7	4782.7	4777.5	4767.1	4756.7	4743.8	4746.4
17.5°	4798.3	4790.4	4780.1	4769.7	4748.9	4738.6	4728.2	4712.6	4707.4	4691.8	4686.7
20°	4743.8	4738.6	4725.6	4707.4	4694.4	4671.1	4660.7	4645.2	4632.2	4616.6	4608.8
22.5°	4673.7	4668.5	4652.9	4634.8	4614.0	4603.6	4593.2	4564.7	4551.7	4536.1	4533.5
25°	4585.5	4577.7	4562.1	4541.4	4530.9	4502.4	4492.0	4471.3	4466.1	4450.5	4447.9
27.5°	4450.5	4440.1	4422.0	4396.0	4377.8	4359.7	4349.3	4333.7	4328.6	4313.0	4310.4
30°	4248.1	4235.1	4198.8	4188.4	4157.3	4139.1	4139.1	4118.3	4120.9	4110.6	4110.6
32.5°	3928.9	3908.2	3879.6	3858.8	3838.1	3827.7	3827.7	3819.9	3825.1	3825.1	3830.3
35°	3505.9	3477.4	3461.8	3448.8	3448.8	3459.2	3490.4	3498.2	3513.7	3526.7	3537.1
37.5°	2963.5	2961.0	2979.1	2994.7	3033.6	3077.8	3132.2	3179.0	3223.0	3254.2	3285.3
40°	2377.1	2442.0	2493.8	2566.5	2626.2	2711.8	2810.4	2890.9	2966.1	3020.7	3077.8
42.5°	1855.4	1938.5	2047.5	2153.9	2260.3	2377.1	2506.9	2618.4	2717.0	2792.3	2852.0
45°	1445.4	1559.6	1692.0	1826.9	1964.5	2109.8	2244.7	2358.9	2462.7	2540.6	2600.3
47.5°	1165.2	1289.7	1440.2	1588.2	1743.9	1897.0	2047.5	2146.1	2231.7	2294.0	2348.6
50°	962.7	1095.1	1253.4	1422.1	1577.8	1730.9	1860.6	1956.7	2026.8	2081.2	2115.0
52.5°	804.4	944.6	1113.3	1281.9	1437.6	1577.8	1694.6	1767.2	1824.3	1863.2	1894.4
55°	664.3	799.3	957.6	1115.9	1269.0	1401.3	1497.3	1551.9	1595.9	1619.3	1637.5
57.5°	542.4	666.9	812.3	957.6	1089.9	1198.9	1274.2	1328.7	1349.4	1367.6	1365.0
60°	425.6	542.4	674.7	799.3	913.5	1001.7	1056.2	1087.3	1102.9	1110.7	1105.5
62.5°	334.8	441.2	542.4	651.4	734.4	809.6	861.6	861.6	869.3	871.9	879.7
65°	249.1	329.5	417.8	498.3	565.7	615.0	643.6	651.4	661.8	659.2	654.0
67.5°	184.3	244.0	308.8	368.5	415.2	446.3	467.1	485.3	482.7	477.5	474.9
70°	127.2	166.1	223.2	259.5	293.2	324.4	329.5	332.2	334.8	337.4	332.2
72.5°	88.3	116.8	147.9	179.1	199.8	212.8	225.8	228.3	228.3	228.3	225.8
75°	44.1	59.7	88.3	101.2	119.4	124.6	134.9	134.9	142.7	132.3	129.7
77.5°	38.9	46.7	62.3	72.6	80.5	88.3	90.8	98.6	96.0	90.8	93.4
80°	23.4	28.6	38.9	44.1	54.5	57.1	59.7	62.3	59.7	62.3	62.3
82.5°	18.2	20.8	26.0	26.0	33.7	33.7	36.3	36.3	38.9	38.9	38.9
85°	10.4	18.2	15.6	31.1	20.8	20.8	26.0	31.1	26.0	26.0	31.1
87.5°	10.4	10.4	7.8	10.4	10.4	10.4	13.0	15.6	15.6	18.2	15.6
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: P249294

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	4834.6	4834.6	4834.6	4834.6
2.5°	4842.4	4847.5	4839.8	4837.2
5°	4850.1	4850.1	4845.0	4845.0
7.5°	4850.1	4850.1	4842.4	4837.2
10°	4829.4	4829.4	4821.6	4816.4
12.5°	4790.4	4790.4	4787.8	4780.1
15°	4741.2	4741.2	4730.8	4723.0
17.5°	4673.7	4678.9	4665.9	4665.9
20°	4601.0	4598.4	4588.1	4582.9
22.5°	4525.8	4520.6	4518.0	4502.4
25°	4445.3	4440.1	4432.3	4424.6
27.5°	4307.8	4305.2	4297.4	4287.0
30°	4097.6	4095.0	4084.6	4084.6
32.5°	3825.1	3822.5	3812.2	3814.8
35°	3542.2	3552.6	3547.4	3537.1
37.5°	3306.1	3313.9	3319.1	3313.9
40°	3108.9	3132.2	3134.8	3140.0
42.5°	2898.7	2929.8	2940.2	2945.4
45°	2646.9	2675.5	2698.9	2693.7
47.5°	2390.0	2410.8	2431.5	2416.0
50°	2143.5	2156.5	2164.3	2164.3
52.5°	1910.0	1910.0	1907.4	1910.0
55°	1642.7	1642.7	1632.3	1637.5
57.5°	1362.4	1367.6	1359.8	1346.8
60°	1102.9	1089.9	1084.7	1077.0
62.5°	859.0	859.0	840.8	864.1
65°	643.6	635.8	628.0	625.4
67.5°	467.1	464.5	456.7	454.1
70°	329.5	319.2	316.6	311.4
72.5°	220.6	220.6	215.4	215.4
75°	134.9	122.0	119.4	122.0
77.5°	93.4	90.8	90.8	88.3
80°	62.3	59.7	64.9	57.1
82.5°	38.9	41.5	38.9	41.5
85°	26.0	31.1	28.6	28.6
87.5°	15.6	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)