

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: P249511

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249511  
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: LSR8B150D010 EC8B1509730 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10734.0 lumens  
Efficiency: N/A  
Efficacy: 67.7 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

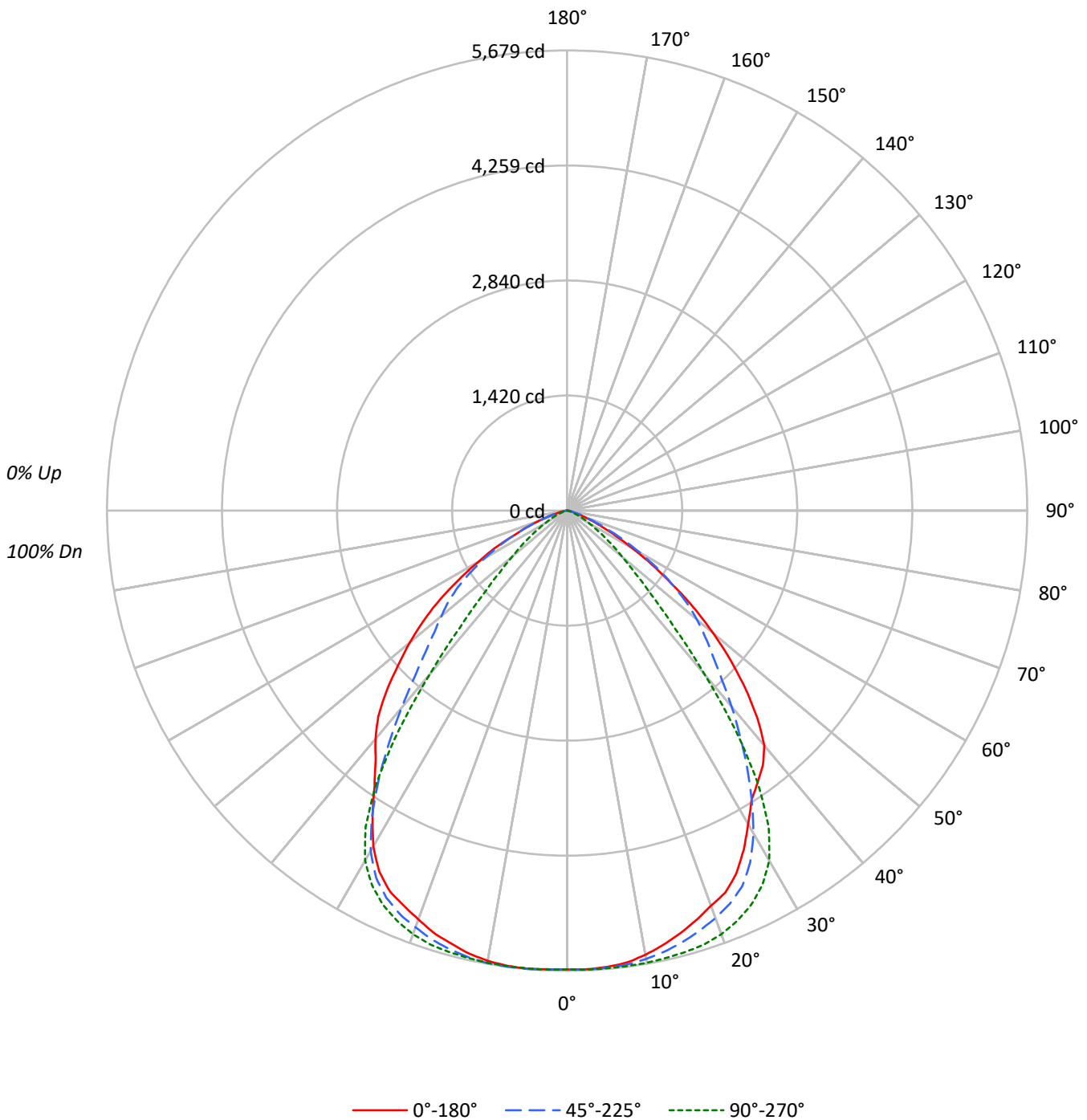
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	540.5	5.0
10°-20°	1569.7	14.6
20°-30°	2382.5	22.2
30°-40°	2502.3	23.3
40°-50°	1876.1	17.5
50°-60°	1203.7	11.2
60°-70°	514.9	4.8
70°-80°	121.7	1.1
80°-90°	22.6	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°	4492.7	41.9
0°-40°	6995.0	65.2
0°-60°	10074.8	93.9
0°-90°	10734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10734.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5664	5664	5664	5664	5664	
5°	5654	5664	5670	5679	5676	537
15°	5399	5512	5639	5603	5533	1523
25°	4940	5113	5372	5274	5183	2257
35°	4098	3870	4101	4052	4144	2572
45°	3113	2544	1462	2472	3156	2384
55°	1575	1575	544	1642	1918	1428
65°	474	559	173	720	733	506
75°	73	85	24	146	143	106
85°	24	15	12	24	34	26
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°	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5
2.5°	5666.5	5672.6	5669.6	5669.6	5666.5	5669.6	5669.6	5675.7	5675.7	5669.6	5666.5
5°	5654.3	5660.4	5660.4	5654.3	5654.3	5669.6	5660.4	5666.5	5666.5	5663.5	5663.5
7.5°	5627.0	5627.0	5639.1	5630.1	5630.1	5639.1	5636.1	5642.2	5648.3	5651.3	5651.3
10°	5566.2	5572.3	5575.3	5575.3	5578.4	5587.5	5593.5	5605.7	5611.8	5617.9	5620.9
12.5°	5490.2	5499.3	5502.4	5499.3	5508.5	5520.6	5535.8	5551.0	5560.1	5572.3	5581.4
15°	5399.0	5399.0	5405.1	5414.2	5420.3	5438.5	5453.7	5471.9	5496.3	5511.5	5526.7
17.5°	5298.7	5304.8	5313.9	5313.9	5326.1	5356.4	5365.6	5392.9	5420.3	5435.5	5465.9
20°	5189.3	5195.3	5204.4	5210.5	5225.7	5250.0	5268.3	5292.6	5323.0	5350.4	5380.7
22.5°	5104.1	5092.0	5098.0	5104.1	5119.4	5140.6	5161.9	5192.3	5222.7	5250.0	5280.5
25°	4939.9	4943.0	4952.1	4958.2	4976.5	4994.7	5019.0	5055.5	5082.8	5113.3	5146.7
27.5°	4718.1	4721.1	4736.3	4736.3	4751.5	4781.9	4797.1	4827.5	4864.0	4894.3	4933.9
30°	4465.7	4471.8	4471.8	4484.0	4493.0	4508.3	4523.5	4553.9	4572.1	4599.5	4654.2
32.5°	4234.7	4240.7	4237.7	4234.7	4225.6	4222.5	4219.5	4225.6	4231.7	4240.7	4262.0
35°	4097.9	4082.7	4070.6	4049.3	4025.0	3994.5	3967.2	3930.7	3897.2	3869.9	3839.5
37.5°	3967.2	3964.1	3945.9	3915.5	3866.8	3812.1	3748.3	3669.3	3590.2	3505.1	3423.0
40°	3784.8	3775.6	3760.4	3717.9	3663.2	3596.3	3511.2	3413.9	3286.2	3155.5	3021.7
42.5°	3474.7	3477.7	3459.5	3426.0	3374.4	3310.5	3222.4	3116.0	2979.2	2824.1	2650.9
45°	3112.9	3112.9	3106.8	3079.5	3043.0	2991.3	2924.5	2836.3	2702.6	2544.4	2359.0
47.5°	2736.0	2739.0	2729.9	2723.8	2708.6	2675.2	2626.5	2559.7	2465.4	2313.4	2128.0
50°	2353.0	2353.0	2368.1	2365.1	2365.1	2353.0	2331.7	2292.1	2210.1	2088.5	1915.2
52.5°	1969.9	1976.0	1985.1	1997.3	2012.4	2036.8	2012.4	1994.2	1942.5	1848.3	1699.4
55°	1574.7	1580.8	1596.0	1617.2	1635.5	1659.9	1665.9	1665.9	1638.5	1574.7	1462.2
57.5°	1237.3	1228.1	1240.3	1258.6	1282.9	1307.2	1325.4	1346.7	1343.7	1301.1	1209.9
60°	930.2	933.3	942.4	960.7	978.9	1000.2	1024.5	1042.7	1051.9	1030.6	972.8
62.5°	677.9	677.9	690.1	708.3	717.4	747.8	763.0	772.2	781.2	778.2	741.8
65°	474.3	480.3	486.4	495.5	504.6	522.8	532.0	550.2	556.3	559.4	532.0
67.5°	334.4	325.3	331.4	337.4	346.6	358.7	377.0	377.0	386.1	386.1	367.8
70°	212.8	212.8	215.9	224.9	231.0	234.1	240.2	246.2	255.4	252.3	252.3
72.5°	142.9	139.8	142.9	145.9	149.0	158.1	158.1	161.1	167.2	170.3	158.1
75°	73.0	76.0	82.0	79.1	88.1	82.0	85.1	94.2	91.2	85.1	85.1
77.5°	60.8	60.8	60.8	57.8	63.8	63.8	60.8	66.9	63.8	63.8	60.8
80°	42.5	45.6	42.5	39.5	42.5	39.5	39.5	39.5	39.5	39.5	36.4
82.5°	33.5	27.4	30.4	27.4	30.4	30.4	27.4	24.3	24.3	27.4	24.3
85°	24.3	18.2	21.3	21.3	18.2	18.2	18.2	18.2	18.2	15.2	15.2
87.5°	15.2	9.1	9.1	9.1	12.1	12.1	12.1	9.1	12.1	12.1	6.1
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°	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5
2.5°	5672.6	5669.6	5675.7	5672.6	5672.6	5669.6	5672.6	5669.6	5675.7	5663.5	5666.5
5°	5672.6	5666.5	5669.6	5672.6	5675.7	5669.6	5669.6	5669.6	5675.7	5669.6	5672.6
7.5°	5660.4	5657.4	5666.5	5672.6	5669.6	5666.5	5672.6	5669.6	5675.7	5672.6	5678.6
10°	5636.1	5639.1	5645.2	5654.3	5657.4	5660.4	5666.5	5666.5	5675.7	5663.5	5669.6
12.5°	5599.6	5611.8	5627.0	5633.0	5645.2	5645.2	5651.3	5654.3	5660.4	5657.4	5666.5
15°	5554.1	5569.2	5587.5	5602.7	5617.9	5627.0	5636.1	5639.1	5648.3	5639.1	5642.2
17.5°	5499.3	5517.5	5544.9	5563.1	5587.5	5596.6	5608.7	5614.8	5624.0	5617.9	5620.9
20°	5423.3	5444.6	5475.0	5502.4	5517.5	5538.8	5554.1	5563.1	5569.2	5563.1	5566.2
22.5°	5316.9	5347.3	5386.8	5408.1	5438.5	5456.8	5459.8	5481.1	5496.3	5481.1	5487.2
25°	5192.3	5222.7	5253.1	5298.7	5326.1	5347.3	5368.6	5371.7	5386.8	5383.8	5380.7
27.5°	4985.5	5025.1	5076.7	5113.3	5149.7	5183.2	5207.5	5213.5	5228.8	5222.7	5225.7
30°	4702.8	4745.4	4794.1	4851.8	4903.5	4936.9	4967.3	4988.6	5003.8	4994.7	4991.6
32.5°	4301.6	4344.1	4395.8	4453.6	4514.4	4563.0	4599.5	4626.9	4645.1	4639.0	4623.8
35°	3842.6	3854.7	3888.2	3933.8	3985.4	4037.1	4070.6	4100.9	4122.2	4128.3	4128.3
37.5°	3371.3	3331.8	3307.5	3307.5	3337.9	3359.2	3389.6	3407.8	3441.3	3453.4	3462.5
40°	2915.3	2824.1	2739.0	2675.2	2632.6	2629.6	2629.6	2638.7	2669.1	2708.6	2745.1
42.5°	2508.0	2362.0	2231.3	2112.8	2027.7	1979.0	1957.8	1960.8	1985.1	2021.6	2082.4
45°	2182.7	2000.3	1836.2	1693.3	1577.7	1501.7	1465.3	1462.2	1480.5	1523.0	1589.9
47.5°	1930.4	1735.8	1550.4	1386.2	1261.6	1179.5	1136.9	1124.8	1136.9	1176.4	1255.5
50°	1720.6	1520.0	1328.5	1158.2	1024.5	939.4	899.8	884.6	899.8	933.3	1012.3
52.5°	1526.0	1319.3	1140.0	975.8	832.9	760.0	717.4	708.3	717.4	756.9	820.8
55°	1301.1	1124.8	948.5	784.3	659.7	586.7	553.3	544.2	553.3	589.8	656.7
57.5°	1079.2	927.2	772.2	623.2	516.8	452.9	422.6	410.4	431.6	456.0	535.0
60°	872.4	750.9	620.1	489.4	401.3	343.5	319.2	316.1	322.2	352.7	407.3
62.5°	684.0	583.7	480.3	373.9	301.0	276.6	246.2	243.2	249.3	267.5	310.1
65°	492.5	428.7	349.6	273.6	215.9	182.4	170.3	173.3	179.3	191.5	231.0
67.5°	343.5	297.9	243.2	191.5	149.0	133.7	121.6	118.6	121.6	142.9	164.2
70°	231.0	203.7	164.2	145.9	103.4	82.0	85.1	76.0	88.1	88.1	106.4
72.5°	152.0	133.7	109.4	85.1	73.0	57.8	57.8	54.7	60.8	63.8	79.1
75°	79.1	60.8	60.8	42.5	30.4	15.2	27.4	24.3	21.3	24.3	30.4
77.5°	54.7	45.6	42.5	33.5	30.4	24.3	24.3	24.3	24.3	27.4	30.4
80°	33.5	33.5	24.3	21.3	18.2	15.2	18.2	18.2	18.2	18.2	21.3
82.5°	21.3	18.2	18.2	15.2	15.2	12.1	12.1	12.1	12.1	12.1	18.2
85°	18.2	12.1	12.1	9.1	12.1	21.3	9.1	12.1	12.1	12.1	9.1
87.5°	6.1	9.1	9.1	9.1	6.1	3.0	6.1	9.1	9.1	15.2	12.1
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°	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5	5663.5
2.5°	5672.6	5675.7	5675.7	5672.6	5672.6	5666.5	5678.6	5669.6	5672.6	5684.7	5675.7
5°	5678.6	5681.7	5681.7	5678.6	5678.6	5678.6	5681.7	5681.7	5678.6	5675.7	5681.7
7.5°	5690.8	5687.8	5687.8	5681.7	5681.7	5675.7	5681.7	5672.6	5678.6	5672.6	5681.7
10°	5675.7	5678.6	5675.7	5672.6	5672.6	5669.6	5669.6	5660.4	5663.5	5654.3	5660.4
12.5°	5666.5	5663.5	5663.5	5657.4	5651.3	5645.2	5642.2	5633.0	5633.0	5611.8	5620.9
15°	5642.2	5645.2	5636.1	5624.0	5617.9	5602.7	5596.6	5584.4	5572.3	5557.1	5560.1
17.5°	5620.9	5611.8	5599.6	5587.5	5563.1	5551.0	5538.8	5520.6	5514.5	5496.3	5490.2
20°	5557.1	5551.0	5535.8	5514.5	5499.3	5471.9	5459.8	5441.6	5426.3	5408.1	5399.0
22.5°	5475.0	5468.9	5450.7	5429.4	5405.1	5392.9	5380.7	5347.3	5332.1	5313.9	5310.8
25°	5371.7	5362.5	5344.3	5320.0	5307.8	5274.4	5262.2	5237.8	5231.8	5213.5	5210.5
27.5°	5213.5	5201.4	5180.1	5149.7	5128.4	5107.2	5095.0	5076.7	5070.7	5052.4	5049.4
30°	4976.5	4961.2	4918.7	4906.5	4870.0	4848.7	4848.7	4824.4	4827.5	4815.3	4815.3
32.5°	4602.5	4578.2	4544.7	4520.4	4496.1	4484.0	4484.0	4474.8	4480.9	4480.9	4487.0
35°	4107.0	4073.6	4055.3	4040.1	4040.1	4052.3	4088.8	4097.9	4116.1	4131.3	4143.5
37.5°	3471.6	3468.6	3489.9	3508.1	3553.7	3605.4	3669.3	3724.0	3775.6	3812.1	3848.6
40°	2784.6	2860.6	2921.4	3006.6	3076.4	3176.8	3292.3	3386.5	3474.7	3538.6	3605.4
42.5°	2173.6	2270.8	2398.6	2523.2	2647.8	2784.6	2936.7	3067.3	3182.9	3271.0	3340.9
45°	1693.3	1827.0	1982.1	2140.2	2301.3	2471.5	2629.6	2763.3	2885.0	2976.1	3046.1
47.5°	1364.9	1510.9	1687.2	1860.5	2042.9	2222.2	2398.6	2514.1	2614.4	2687.3	2751.2
50°	1127.8	1282.9	1468.3	1665.9	1848.3	2027.7	2179.7	2292.1	2374.2	2438.1	2477.6
52.5°	942.4	1106.5	1304.2	1501.7	1684.1	1848.3	1985.1	2070.2	2137.1	2182.7	2219.2
55°	778.2	936.3	1121.8	1307.2	1486.5	1641.6	1754.0	1817.9	1869.6	1896.9	1918.2
57.5°	635.4	781.2	951.5	1121.8	1276.8	1404.5	1492.6	1556.5	1580.8	1602.1	1599.0
60°	498.6	635.4	790.4	936.3	1070.1	1173.4	1237.3	1273.7	1292.0	1301.1	1295.0
62.5°	392.1	516.8	635.4	763.0	860.3	948.5	1009.3	1009.3	1018.4	1021.4	1030.6
65°	291.8	386.1	489.4	583.7	662.7	720.5	753.9	763.0	775.2	772.2	766.1
67.5°	215.9	285.8	361.7	431.6	486.4	522.8	547.2	568.5	565.5	559.4	556.3
70°	149.0	194.6	261.5	304.0	343.5	380.0	386.1	389.1	392.1	395.2	389.1
72.5°	103.4	136.8	173.3	209.8	234.1	249.3	264.5	267.5	267.5	267.5	264.5
75°	51.7	69.9	103.4	118.6	139.8	145.9	158.1	158.1	167.2	155.0	152.0
77.5°	45.6	54.7	73.0	85.1	94.2	103.4	106.4	115.5	112.5	106.4	109.4
80°	27.4	33.5	45.6	51.7	63.8	66.9	69.9	73.0	69.9	73.0	73.0
82.5°	21.3	24.3	30.4	30.4	39.5	39.5	42.5	42.5	45.6	45.6	45.6
85°	12.1	21.3	18.2	36.4	24.3	24.3	30.4	36.4	30.4	30.4	36.4
87.5°	12.1	12.1	9.1	12.1	12.1	12.1	15.2	18.2	18.2	21.3	18.2
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: P249511

CATALOG NUMBER: LSR8B150D010 EC8B1509730 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	5663.5	5663.5	5663.5	5663.5
2.5°	5672.6	5678.6	5669.6	5666.5
5°	5681.7	5681.7	5675.7	5675.7
7.5°	5681.7	5681.7	5672.6	5666.5
10°	5657.4	5657.4	5648.3	5642.2
12.5°	5611.8	5611.8	5608.7	5599.6
15°	5554.1	5554.1	5541.9	5532.8
17.5°	5475.0	5481.1	5465.9	5465.9
20°	5389.9	5386.8	5374.7	5368.6
22.5°	5301.7	5295.6	5292.6	5274.4
25°	5207.5	5201.4	5192.3	5183.2
27.5°	5046.4	5043.3	5034.2	5022.1
30°	4800.1	4797.1	4784.9	4784.9
32.5°	4480.9	4477.9	4465.7	4468.8
35°	4149.5	4161.7	4155.6	4143.5
37.5°	3872.9	3882.1	3888.2	3882.1
40°	3641.9	3669.3	3672.3	3678.4
42.5°	3395.7	3432.1	3444.3	3450.3
45°	3100.7	3134.2	3161.6	3155.5
47.5°	2799.8	2824.1	2848.4	2830.2
50°	2511.0	2526.2	2535.4	2535.4
52.5°	2237.4	2237.4	2234.4	2237.4
55°	1924.3	1924.3	1912.2	1918.2
57.5°	1596.0	1602.1	1592.9	1577.7
60°	1292.0	1276.8	1270.7	1261.6
62.5°	1006.3	1006.3	985.0	1012.3
65°	753.9	744.8	735.7	732.6
67.5°	547.2	544.2	535.0	532.0
70°	386.1	373.9	370.9	364.8
72.5°	258.4	258.4	252.3	252.3
75°	158.1	142.9	139.8	142.9
77.5°	109.4	106.4	106.4	103.4
80°	73.0	69.9	76.0	66.9
82.5°	45.6	48.6	45.6	48.6
85°	30.4	36.4	33.5	33.5
87.5°	18.2	18.2	18.2	18.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)