

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: P249178

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249178  
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 EC8B1509727 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11465.0 lumens  
Efficiency: N/A  
Efficacy: 72.3 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

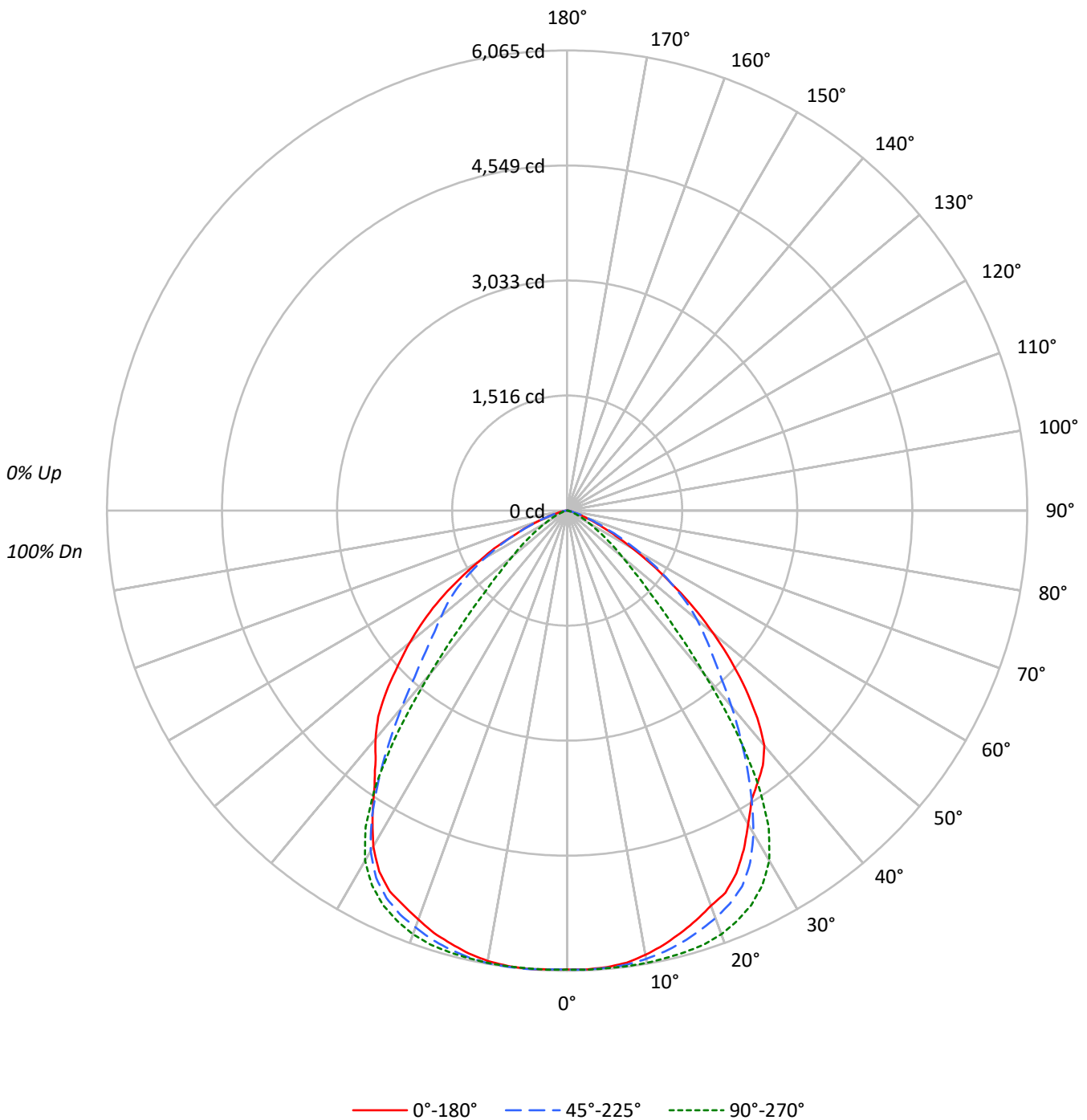
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	577.3	5.0
10°-20°	1676.6	14.6
20°-30°	2544.7	22.2
30°-40°	2672.7	23.3
40°-50°	2003.8	17.5
50°-60°	1285.7	11.2
60°-70°	550.0	4.8
70°-80°	129.9	1.1
80°-90°	24.2	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°	4798.6	41.9
0°-40°	7471.3	65.2
0°-60°	10760.9	93.9
0°-90°	11465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6049	6049	6049	6049	6049	
5°	6039	6049	6056	6065	6062	574
15°	5767	5887	6023	5984	5910	1627
25°	5276	5462	5738	5634	5536	2410
35°	4377	4133	4380	4328	4426	2747
45°	3325	2718	1562	2640	3370	2546
55°	1682	1682	581	1753	2049	1526
65°	507	598	185	770	782	541
75°	78	91	26	156	153	113
85°	26	16	13	26	36	27
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°	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2
2.5°	6052.4	6058.9	6055.7	6055.7	6052.4	6055.7	6055.7	6062.2	6062.2	6055.7	6052.4
5°	6039.4	6045.9	6045.9	6039.4	6039.4	6055.7	6045.9	6052.4	6052.4	6049.2	6049.2
7.5°	6010.2	6010.2	6023.2	6013.5	6013.5	6023.2	6019.9	6026.4	6033.0	6036.2	6036.2
10°	5945.2	5951.8	5955.0	5955.0	5958.3	5968.0	5974.5	5987.5	5993.9	6000.5	6003.7
12.5°	5864.1	5873.8	5877.1	5873.8	5883.6	5896.5	5912.8	5929.0	5938.8	5951.8	5961.5
15°	5766.6	5766.6	5773.2	5782.9	5789.4	5808.9	5825.1	5844.6	5870.6	5886.8	5903.1
17.5°	5659.5	5666.1	5675.8	5675.8	5688.8	5721.2	5731.0	5760.2	5789.4	5805.6	5838.1
20°	5542.7	5549.1	5558.9	5565.4	5581.6	5607.6	5627.0	5653.0	5685.5	5714.8	5747.2
22.5°	5451.7	5438.8	5445.2	5451.7	5468.0	5490.7	5513.4	5545.9	5578.3	5607.6	5640.1
25°	5276.4	5279.6	5289.4	5295.8	5315.4	5334.8	5360.8	5399.7	5429.0	5461.5	5497.1
27.5°	5039.4	5042.6	5058.8	5058.8	5075.0	5107.5	5123.7	5156.2	5195.2	5227.7	5269.9
30°	4769.9	4776.3	4776.3	4789.3	4799.0	4815.3	4831.5	4864.0	4883.5	4912.7	4971.2
32.5°	4523.1	4529.5	4526.3	4523.1	4513.3	4510.1	4506.8	4513.3	4519.8	4529.5	4552.3
35°	4377.0	4360.7	4347.8	4325.0	4299.1	4266.6	4237.3	4198.4	4162.6	4133.4	4101.0
37.5°	4237.3	4234.1	4214.6	4182.1	4130.2	4071.8	4003.6	3919.1	3834.7	3743.8	3656.2
40°	4042.5	4032.7	4016.5	3971.1	3912.6	3841.2	3750.3	3646.4	3510.0	3370.4	3227.5
42.5°	3711.3	3714.6	3695.1	3659.3	3604.2	3536.0	3441.8	3328.2	3182.1	3016.4	2831.4
45°	3324.9	3324.9	3318.4	3289.2	3250.3	3195.0	3123.6	3029.5	2886.6	2717.7	2519.6
47.5°	2922.3	2925.5	2915.8	2909.3	2893.1	2857.4	2805.4	2734.0	2633.3	2470.9	2272.9
50°	2513.2	2513.2	2529.4	2526.2	2526.2	2513.2	2490.5	2448.2	2360.6	2230.7	2045.6
52.5°	2104.0	2110.6	2120.3	2133.3	2149.5	2175.5	2149.5	2130.0	2074.8	1974.1	1815.1
55°	1681.9	1688.4	1704.7	1727.4	1746.9	1772.9	1779.3	1779.3	1750.1	1681.9	1561.8
57.5°	1321.6	1311.8	1324.8	1344.3	1370.3	1396.2	1415.7	1438.4	1435.2	1389.7	1292.3
60°	993.6	996.8	1006.5	1026.1	1045.5	1068.3	1094.2	1113.7	1123.5	1100.8	1039.0
62.5°	724.1	724.1	737.0	756.5	766.3	798.8	815.0	824.8	834.5	831.2	792.3
65°	506.6	513.0	519.5	529.3	539.0	558.4	568.2	587.7	594.2	597.5	568.2
67.5°	357.2	347.4	353.9	360.4	370.2	383.2	402.6	402.6	412.3	412.3	392.9
70°	227.3	227.3	230.6	240.3	246.8	250.0	256.5	263.0	272.7	269.5	269.5
72.5°	152.6	149.4	152.6	155.9	159.1	168.8	168.8	172.1	178.6	181.9	168.8
75°	77.9	81.2	87.6	84.5	94.1	87.6	90.9	100.7	97.4	90.9	90.9
77.5°	64.9	64.9	64.9	61.7	68.2	68.2	64.9	71.4	68.2	68.2	64.9
80°	45.4	48.7	45.4	42.2	45.4	42.2	42.2	42.2	42.2	42.2	38.9
82.5°	35.8	29.2	32.5	29.2	32.5	32.5	29.2	26.0	26.0	29.2	26.0
85°	26.0	19.5	22.7	22.7	19.5	19.5	19.5	19.5	19.5	16.2	16.2
87.5°	16.2	9.8	9.8	9.8	13.0	13.0	13.0	9.8	13.0	13.0	6.5
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°	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2
2.5°	6058.9	6055.7	6062.2	6058.9	6058.9	6055.7	6058.9	6055.7	6062.2	6049.2	6052.4
5°	6058.9	6052.4	6055.7	6058.9	6062.2	6055.7	6055.7	6055.7	6062.2	6055.7	6058.9
7.5°	6045.9	6042.6	6052.4	6058.9	6055.7	6052.4	6058.9	6055.7	6062.2	6058.9	6065.4
10°	6019.9	6023.2	6029.7	6039.4	6042.6	6045.9	6052.4	6052.4	6062.2	6049.2	6055.7
12.5°	5981.0	5993.9	6010.2	6016.7	6029.7	6029.7	6036.2	6039.4	6045.9	6042.6	6052.4
15°	5932.3	5948.5	5968.0	5984.2	6000.5	6010.2	6019.9	6023.2	6033.0	6023.2	6026.4
17.5°	5873.8	5893.3	5922.5	5942.0	5968.0	5977.7	5990.7	5997.2	6007.0	6000.5	6003.7
20°	5792.6	5815.4	5847.8	5877.1	5893.3	5916.0	5932.3	5942.0	5948.5	5942.0	5945.2
22.5°	5679.0	5711.5	5753.7	5776.4	5808.9	5828.4	5831.6	5854.4	5870.6	5854.4	5860.9
25°	5545.9	5578.3	5610.8	5659.5	5688.8	5711.5	5734.2	5737.5	5753.7	5750.4	5747.2
27.5°	5325.1	5367.3	5422.5	5461.5	5500.4	5536.2	5562.1	5568.6	5584.9	5578.3	5581.6
30°	5023.1	5068.6	5120.6	5182.2	5237.4	5273.1	5305.6	5328.3	5344.5	5334.8	5331.6
32.5°	4594.5	4640.0	4695.2	4756.8	4821.8	4873.7	4912.7	4942.0	4961.4	4954.9	4938.7
35°	4104.2	4117.2	4153.0	4201.7	4256.8	4312.0	4347.8	4380.2	4402.9	4409.4	4409.4
37.5°	3600.9	3558.8	3532.8	3532.8	3565.2	3587.9	3620.4	3639.9	3675.6	3688.6	3698.3
40°	3113.8	3016.4	2925.5	2857.4	2811.9	2808.7	2808.7	2818.4	2850.9	2893.1	2932.1
42.5°	2678.8	2522.9	2383.3	2256.7	2165.8	2113.8	2091.1	2094.4	2120.3	2159.3	2224.2
45°	2331.3	2136.5	1961.2	1808.6	1685.2	1604.0	1565.1	1561.8	1581.3	1626.7	1698.2
47.5°	2061.9	1854.0	1656.0	1480.6	1347.5	1259.8	1214.4	1201.4	1214.4	1256.6	1341.0
50°	1837.8	1623.5	1419.0	1237.1	1094.2	1003.4	961.1	944.9	961.1	996.8	1081.2
52.5°	1630.0	1409.2	1217.6	1042.3	889.7	811.7	766.3	756.5	766.3	808.5	876.7
55°	1389.7	1201.4	1013.1	837.7	704.6	626.7	590.9	581.2	590.9	629.9	701.4
57.5°	1152.7	990.3	824.8	665.6	552.0	483.8	451.3	438.3	461.0	487.0	571.5
60°	931.9	802.0	662.4	522.8	428.6	366.9	340.9	337.7	344.2	376.7	435.1
62.5°	730.6	623.4	513.0	399.4	321.5	295.5	263.0	259.8	266.2	285.7	331.2
65°	526.0	457.9	373.4	292.2	230.6	194.8	181.9	185.1	191.6	204.6	246.8
67.5°	366.9	318.2	259.8	204.6	159.1	142.8	129.9	126.6	129.9	152.6	175.3
70°	246.8	217.5	175.3	155.9	110.4	87.6	90.9	81.2	94.1	94.1	113.6
72.5°	162.3	142.8	116.9	90.9	77.9	61.7	61.7	58.5	64.9	68.2	84.5
75°	84.5	64.9	64.9	45.4	32.5	16.2	29.2	26.0	22.7	26.0	32.5
77.5°	58.5	48.7	45.4	35.8	32.5	26.0	26.0	26.0	26.0	29.2	32.5
80°	35.8	35.8	26.0	22.7	19.5	16.2	19.5	19.5	19.5	19.5	22.7
82.5°	22.7	19.5	19.5	16.2	16.2	13.0	13.0	13.0	13.0	13.0	19.5
85°	19.5	13.0	13.0	9.8	13.0	22.7	9.8	13.0	13.0	13.0	9.8
87.5°	6.5	9.8	9.8	9.8	6.5	3.3	6.5	9.8	9.8	16.2	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2	6049.2
2.5°	6058.9	6062.2	6062.2	6058.9	6058.9	6052.4	6065.4	6055.7	6058.9	6071.9	6062.2
5°	6065.4	6068.6	6068.6	6065.4	6065.4	6065.4	6068.6	6068.6	6065.4	6062.2	6068.6
7.5°	6078.4	6075.1	6075.1	6068.6	6068.6	6062.2	6068.6	6058.9	6065.4	6058.9	6068.6
10°	6062.2	6065.4	6062.2	6058.9	6058.9	6055.7	6055.7	6045.9	6049.2	6039.4	6045.9
12.5°	6052.4	6049.2	6049.2	6042.6	6036.2	6029.7	6026.4	6016.7	6016.7	5993.9	6003.7
15°	6026.4	6029.7	6019.9	6007.0	6000.5	5984.2	5977.7	5964.7	5951.8	5935.5	5938.8
17.5°	6003.7	5993.9	5981.0	5968.0	5942.0	5929.0	5916.0	5896.5	5890.0	5870.6	5864.1
20°	5935.5	5929.0	5912.8	5890.0	5873.8	5844.6	5831.6	5812.2	5795.9	5776.4	5766.6
22.5°	5847.8	5841.3	5821.9	5799.1	5773.2	5760.2	5747.2	5711.5	5695.2	5675.8	5672.5
25°	5737.5	5727.7	5708.2	5682.3	5669.2	5633.6	5620.5	5594.6	5588.1	5568.6	5565.4
27.5°	5568.6	5555.6	5532.9	5500.4	5477.7	5455.0	5442.0	5422.5	5416.0	5396.5	5393.3
30°	5315.4	5299.1	5253.6	5240.7	5201.7	5179.0	5179.0	5153.0	5156.2	5143.3	5143.3
32.5°	4916.0	4890.0	4854.2	4828.3	4802.3	4789.3	4789.3	4779.6	4786.1	4786.1	4792.6
35°	4386.7	4351.0	4331.5	4315.3	4315.3	4328.2	4367.2	4377.0	4396.5	4412.7	4425.7
37.5°	3708.0	3704.9	3727.6	3747.0	3795.8	3851.0	3919.1	3977.6	4032.7	4071.8	4110.7
40°	2974.2	3055.4	3120.4	3211.3	3285.9	3393.1	3516.5	3617.1	3711.3	3779.5	3851.0
42.5°	2321.6	2425.5	2561.9	2695.0	2828.1	2974.2	3136.6	3276.2	3399.6	3493.8	3568.4
45°	1808.6	1951.4	2117.1	2285.9	2458.0	2639.8	2808.7	2951.5	3081.4	3178.8	3253.5
47.5°	1457.9	1613.8	1802.1	1987.2	2182.0	2373.5	2561.9	2685.3	2792.4	2870.3	2938.6
50°	1204.6	1370.3	1568.3	1779.3	1974.1	2165.8	2328.1	2448.2	2535.9	2604.1	2646.3
52.5°	1006.5	1181.9	1393.0	1604.0	1798.8	1974.1	2120.3	2211.2	2282.6	2331.3	2370.3
55°	831.2	1000.1	1198.2	1396.2	1587.8	1753.4	1873.5	1941.7	1996.9	2026.1	2048.8
57.5°	678.7	834.5	1016.3	1198.2	1363.7	1500.2	1594.3	1662.5	1688.4	1711.2	1707.9
60°	532.5	678.7	844.2	1000.1	1143.0	1253.3	1321.6	1360.5	1379.9	1389.7	1383.2
62.5°	418.9	552.0	678.7	815.0	918.9	1013.1	1078.0	1078.0	1087.7	1091.0	1100.8
65°	311.7	412.3	522.8	623.4	707.8	769.5	805.3	815.0	828.0	824.8	818.2
67.5°	230.6	305.2	386.4	461.0	519.5	558.4	584.4	607.2	604.0	597.5	594.2
70°	159.1	207.8	279.3	324.7	366.9	405.9	412.3	415.6	418.9	422.1	415.6
72.5°	110.4	146.1	185.1	224.0	250.0	266.2	282.5	285.7	285.7	285.7	282.5
75°	55.2	74.7	110.4	126.6	149.4	155.9	168.8	168.8	178.6	165.6	162.3
77.5°	48.7	58.5	77.9	90.9	100.7	110.4	113.6	123.4	120.1	113.6	116.9
80°	29.2	35.8	48.7	55.2	68.2	71.4	74.7	77.9	74.7	77.9	77.9
82.5°	22.7	26.0	32.5	32.5	42.2	42.2	45.4	45.4	48.7	48.7	48.7
85°	13.0	22.7	19.5	38.9	26.0	26.0	32.5	38.9	32.5	32.5	38.9
87.5°	13.0	13.0	9.8	13.0	13.0	13.0	16.2	19.5	19.5	22.7	19.5
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: P249178

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6049.2	6049.2	6049.2	6049.2
2.5°	6058.9	6065.4	6055.7	6052.4
5°	6068.6	6068.6	6062.2	6062.2
7.5°	6068.6	6068.6	6058.9	6052.4
10°	6042.6	6042.6	6033.0	6026.4
12.5°	5993.9	5993.9	5990.7	5981.0
15°	5932.3	5932.3	5919.3	5909.6
17.5°	5847.8	5854.4	5838.1	5838.1
20°	5756.9	5753.7	5740.7	5734.2
22.5°	5662.8	5656.3	5653.0	5633.6
25°	5562.1	5555.6	5545.9	5536.2
27.5°	5390.1	5386.8	5377.0	5364.1
30°	5127.0	5123.7	5110.8	5110.8
32.5°	4786.1	4782.8	4769.9	4773.1
35°	4432.1	4445.2	4438.7	4425.7
37.5°	4136.7	4146.4	4153.0	4146.4
40°	3889.9	3919.1	3922.4	3928.9
42.5°	3626.9	3665.9	3678.9	3685.3
45°	3311.9	3347.7	3376.9	3370.4
47.5°	2990.5	3016.4	3042.4	3023.0
50°	2682.0	2698.2	2708.0	2708.0
52.5°	2389.8	2389.8	2386.6	2389.8
55°	2055.3	2055.3	2042.4	2048.8
57.5°	1704.7	1711.2	1701.4	1685.2
60°	1379.9	1363.7	1357.2	1347.5
62.5°	1074.8	1074.8	1052.1	1081.2
65°	805.3	795.5	785.8	782.5
67.5°	584.4	581.2	571.5	568.2
70°	412.3	399.4	396.1	389.6
72.5°	276.0	276.0	269.5	269.5
75°	168.8	152.6	149.4	152.6
77.5°	116.9	113.6	113.6	110.4
80°	77.9	74.7	81.2	71.4
82.5°	48.7	52.0	48.7	52.0
85°	32.5	38.9	35.8	35.8
87.5°	19.5	19.5	19.5	19.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)