

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: P248530

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B1509727 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE 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: 11554.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

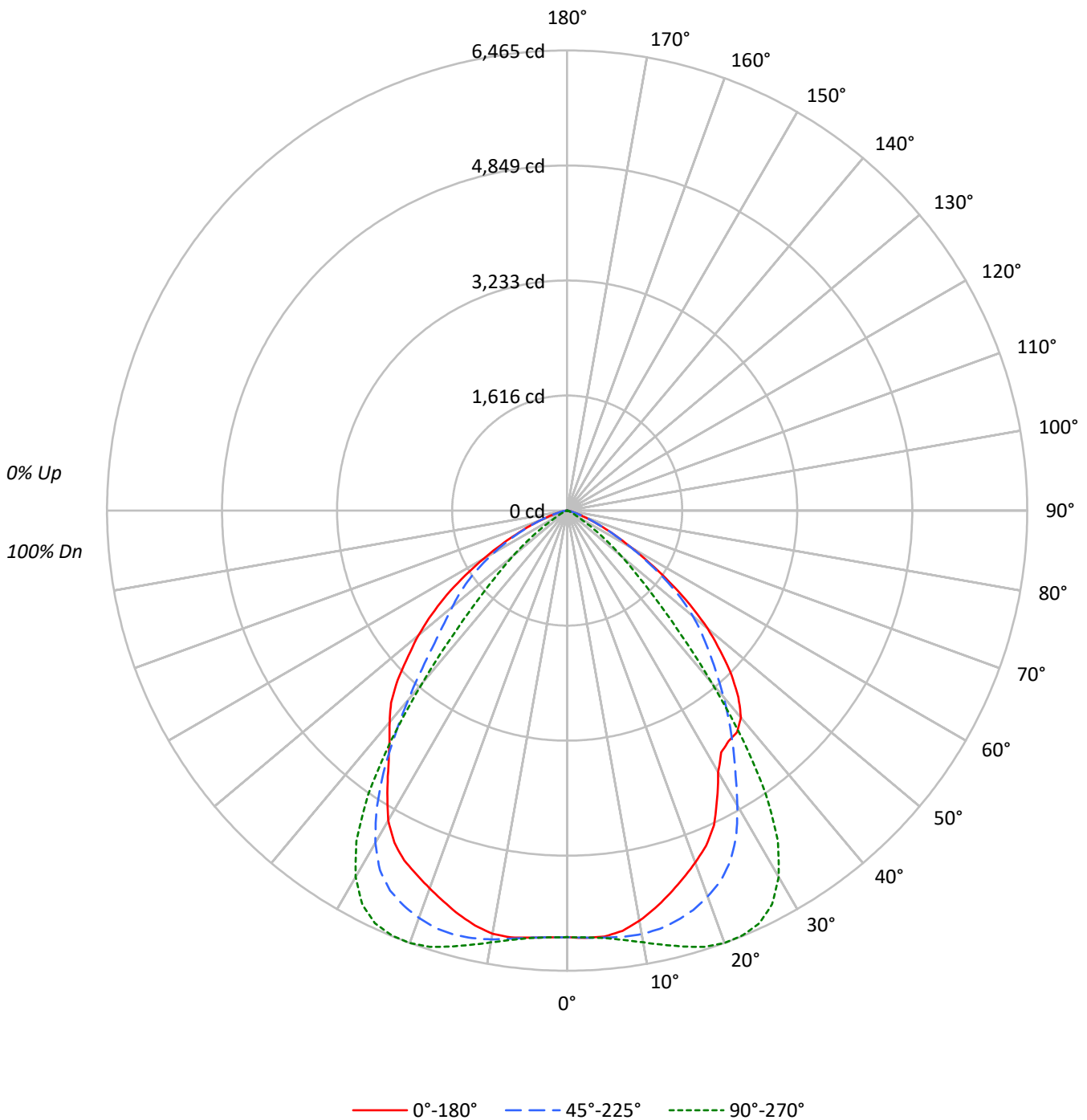
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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						
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90						
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79						
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70						
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62						
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56						
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50						
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45						
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41						
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38						
10	60	48	41	36	59	48	41	36	47	41	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°	576.4	5.0
10°-20°	1707.6	14.8
20°-30°	2605.1	22.5
30°-40°	2718.4	23.5
40°-50°	2041.9	17.7
50°-60°	1256.3	10.9
60°-70°	511.3	4.4
70°-80°	120.5	1.0
80°-90°	16.6	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°	4889.0	42.3
0°-40°	7607.5	65.8
0°-60°	10905.7	94.4
0°-90°	11554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11554.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5994	5994	5994	5994	5994	
5°	6007	6022	6029	6022	6022	568
15°	5571	5962	6341	6166	5876	1569
25°	4880	5428	6395	5889	5421	2219
35°	3954	4066	4871	4502	4374	2497
45°	3264	2825	1762	2631	3366	2490
55°	1762	1673	461	1673	2065	1584
65°	550	557	70	748	792	574
75°	95	95	13	169	175	115
85°	10	10	3	22	29	13
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°	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8
2.5°	6009.8	6000.2	6009.8	6009.8	6013.0	6006.6	6009.8	6013.0	6006.6	6006.6	6006.6
5°	6006.6	6000.2	6006.6	6003.4	6009.8	6009.8	6016.1	6016.1	6022.5	6022.5	6032.0
7.5°	5955.7	5943.0	5955.7	5965.2	5971.5	5984.3	6000.2	6013.0	6025.6	6038.4	6054.3
10°	5850.7	5850.7	5860.2	5879.3	5898.4	5920.6	5949.3	5981.1	6013.0	6041.5	6070.2
12.5°	5720.3	5710.7	5729.8	5755.2	5783.9	5818.9	5863.4	5911.1	5962.0	6019.3	6063.9
15°	5570.7	5561.1	5583.4	5608.9	5643.9	5694.8	5748.9	5812.5	5885.7	5962.0	6035.2
17.5°	5418.0	5414.8	5437.1	5472.1	5500.7	5554.8	5624.8	5701.1	5783.9	5885.7	5981.1
20°	5262.1	5259.0	5281.2	5309.9	5348.0	5398.9	5468.9	5558.0	5656.6	5771.2	5882.5
22.5°	5099.8	5103.0	5122.1	5153.9	5185.8	5239.8	5313.0	5402.1	5510.2	5634.3	5758.4
25°	4880.3	4864.4	4889.9	4921.7	4975.8	5020.3	5090.3	5185.8	5297.1	5427.6	5573.9
27.5°	4562.2	4559.0	4581.3	4609.9	4657.6	4711.7	4788.1	4886.7	5004.4	5147.6	5290.7
30°	4244.0	4250.4	4260.0	4288.6	4320.4	4374.5	4450.8	4533.6	4644.9	4781.7	4934.4
32.5°	4027.7	4027.7	4040.4	4059.5	4081.8	4110.4	4164.5	4224.9	4310.9	4406.3	4517.6
35°	3954.5	3941.8	3954.5	3957.7	3960.9	3967.3	3976.8	3995.9	4024.5	4065.9	4107.2
37.5°	3922.7	3913.2	3913.2	3900.5	3884.5	3865.5	3840.0	3811.4	3779.6	3738.2	3706.4
40°	3798.7	3792.3	3785.9	3773.2	3738.2	3700.0	3658.6	3591.8	3518.7	3416.8	3315.1
42.5°	3560.1	3553.7	3550.5	3525.0	3493.2	3448.7	3401.0	3331.0	3238.7	3108.3	2961.9
45°	3264.2	3251.4	3241.9	3219.7	3197.3	3159.2	3114.6	3051.0	2958.7	2825.1	2650.1
47.5°	2920.6	2914.2	2911.0	2901.5	2879.2	2856.9	2828.3	2777.4	2694.7	2567.4	2386.1
50°	2573.8	2561.1	2567.4	2564.3	2554.7	2538.8	2519.7	2484.7	2421.0	2306.5	2141.1
52.5°	2176.1	2176.1	2173.0	2182.5	2185.6	2182.5	2185.6	2147.5	2093.4	2007.5	1867.5
55°	1762.5	1762.5	1772.1	1784.8	1797.5	1800.7	1797.5	1781.6	1743.4	1673.4	1549.3
57.5°	1374.3	1368.0	1387.1	1406.2	1419.0	1431.6	1422.1	1409.4	1387.1	1329.8	1234.4
60°	1046.7	1046.7	1059.4	1072.2	1084.8	1097.6	1094.4	1091.2	1072.2	1033.9	957.6
62.5°	769.9	773.1	773.1	782.6	795.3	808.1	817.6	808.1	798.5	773.1	722.2
65°	550.4	547.2	550.4	559.9	569.5	582.2	588.6	585.4	575.8	556.7	518.6
67.5°	369.1	365.9	378.6	381.8	388.1	400.9	397.7	400.9	397.7	381.8	350.0
70°	241.8	235.4	241.8	238.6	248.2	251.4	257.7	260.9	257.7	248.2	238.6
72.5°	149.5	146.3	149.5	152.7	155.9	159.0	165.4	165.4	162.2	155.9	143.2
75°	95.4	85.9	89.1	82.7	89.1	89.1	95.4	98.6	95.4	95.4	89.1
77.5°	57.3	57.3	57.3	57.3	57.3	57.3	57.3	60.5	63.6	57.3	54.1
80°	28.6	28.6	31.8	31.8	31.8	35.0	31.8	31.8	31.8	35.0	25.5
82.5°	22.3	19.1	19.1	19.1	22.3	19.1	19.1	19.1	19.1	19.1	19.1
85°	9.6	12.7	9.6	6.4	9.6	9.6	12.7	9.6	9.6	9.6	12.7
87.5°	3.2	3.2	0.0	0.0	0.0	3.2	0.0	3.2	3.2	6.4	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8
2.5°	6009.8	6003.4	6003.4	6000.2	6006.6	6000.2	6003.4	6000.2	6000.2	6006.6	6000.2
5°	6032.0	6035.2	6028.8	6025.6	6035.2	6035.2	6035.2	6028.8	6028.8	6032.0	6028.8
7.5°	6063.9	6070.2	6073.4	6076.6	6082.9	6086.1	6086.1	6082.9	6079.7	6089.3	6076.6
10°	6098.8	6108.4	6127.5	6137.0	6152.9	6152.9	6159.3	6159.3	6152.9	6159.3	6156.1
12.5°	6086.1	6143.3	6175.2	6197.4	6219.7	6238.8	6245.2	6248.4	6245.2	6257.9	6245.2
15°	6108.4	6156.1	6207.0	6245.2	6286.5	6308.8	6315.2	6340.6	6347.0	6350.2	6331.1
17.5°	6073.4	6159.3	6213.3	6270.6	6331.1	6372.4	6410.6	6426.5	6429.7	6436.0	6410.6
20°	5993.8	6089.3	6172.0	6254.7	6324.7	6388.3	6420.2	6464.7	6452.0	6477.5	6442.4
22.5°	5885.7	5993.8	6098.8	6207.0	6280.2	6356.6	6423.4	6455.1	6471.1	6471.1	6432.9
25°	5713.9	5841.2	5955.7	6067.0	6178.4	6270.6	6347.0	6394.7	6404.3	6401.1	6356.6
27.5°	5446.6	5583.4	5717.1	5844.3	5981.1	6089.3	6178.4	6235.6	6251.5	6251.5	6203.8
30°	5077.6	5223.9	5354.4	5507.0	5647.1	5768.0	5892.1	5943.0	5971.5	5971.5	5917.5
32.5°	4638.5	4762.6	4883.5	5033.0	5185.8	5322.6	5440.3	5510.2	5545.3	5542.1	5494.4
35°	4161.3	4221.8	4314.1	4425.4	4562.2	4689.4	4804.0	4870.8	4931.2	4928.0	4883.5
37.5°	3684.1	3668.2	3677.8	3719.1	3805.0	3894.1	3983.2	4046.8	4097.7	4120.0	4110.4
40°	3216.5	3133.7	3054.2	3025.6	3031.9	3063.7	3111.5	3159.2	3216.5	3245.1	3257.8
42.5°	2796.5	2656.5	2516.5	2411.5	2351.1	2332.0	2354.3	2370.1	2405.2	2446.5	2487.9
45°	2459.3	2271.6	2087.0	1924.8	1823.0	1762.5	1749.8	1762.5	1781.6	1823.0	1877.1
47.5°	2182.5	1962.9	1756.2	1574.8	1425.3	1345.8	1323.5	1317.1	1336.2	1374.3	1447.5
50°	1937.5	1718.0	1488.9	1278.9	1123.1	1033.9	1002.2	989.4	1011.7	1040.3	1107.1
52.5°	1670.2	1453.9	1218.5	1014.9	852.6	760.4	725.4	706.3	719.0	757.2	824.0
55°	1380.7	1180.3	967.1	757.2	601.3	515.4	474.0	461.3	474.0	515.4	582.2
57.5°	1091.2	922.6	744.4	547.2	407.2	321.3	279.9	267.2	302.3	318.2	388.1
60°	852.6	715.9	563.1	400.9	279.9	213.1	171.8	162.2	178.2	206.8	264.0
62.5°	639.5	553.6	432.7	286.3	206.8	136.8	114.5	105.0	114.5	136.8	181.4
65°	464.5	397.7	302.3	209.9	140.0	101.8	76.4	70.0	79.6	95.4	133.7
67.5°	318.2	267.2	209.9	146.3	95.4	63.6	54.1	54.1	57.3	70.0	98.6
70°	206.8	175.0	133.7	95.4	63.6	47.7	41.3	35.0	41.3	50.9	66.8
72.5°	130.5	111.3	85.9	66.8	47.7	35.0	28.6	25.5	31.8	38.1	50.9
75°	79.6	60.5	44.5	35.0	25.5	25.5	25.5	12.7	15.9	25.5	31.8
77.5°	47.7	41.3	35.0	28.6	22.3	12.7	12.7	12.7	15.9	19.1	28.6
80°	25.5	22.3	15.9	15.9	12.7	9.6	12.7	9.6	6.4	15.9	19.1
82.5°	15.9	12.7	12.7	12.7	15.9	6.4	9.6	6.4	9.6	12.7	9.6
85°	9.6	9.6	9.6	6.4	15.9	6.4	6.4	3.2	3.2	6.4	6.4
87.5°	0.0	3.2	3.2	0.0	3.2	0.0	3.2	3.2	3.2	3.2	3.2
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°	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8	5993.8
2.5°	6003.4	6000.2	6003.4	6000.2	6000.2	6000.2	6003.4	6003.4	6000.2	6000.2	6006.6
5°	6028.8	6028.8	6028.8	6025.6	6022.5	6022.5	6028.8	6028.8	6019.3	6028.8	6028.8
7.5°	6082.9	6073.4	6082.9	6070.2	6063.9	6067.0	6070.2	6063.9	6057.5	6060.7	6060.7
10°	6152.9	6143.3	6143.3	6133.8	6124.3	6117.9	6111.6	6095.6	6079.7	6076.6	6063.9
12.5°	6235.6	6219.7	6210.2	6191.1	6175.2	6152.9	6133.8	6108.4	6076.6	6054.3	6032.0
15°	6318.3	6292.9	6270.6	6238.8	6203.8	6165.6	6124.3	6082.9	6032.0	5987.5	5949.3
17.5°	6385.1	6350.2	6308.8	6257.9	6207.0	6149.7	6089.3	6028.8	5955.7	5898.4	5853.8
20°	6407.4	6356.6	6302.5	6235.6	6168.8	6089.3	6013.0	5933.4	5850.7	5790.2	5739.3
22.5°	6378.8	6318.3	6251.5	6181.6	6092.4	6006.6	5917.5	5825.2	5752.0	5669.3	5621.6
25°	6299.3	6226.1	6152.9	6070.2	5984.3	5888.9	5793.4	5698.0	5608.9	5564.3	5503.9
27.5°	6137.0	6057.5	5977.9	5892.1	5793.4	5698.0	5599.4	5507.0	5430.8	5370.3	5335.3
30°	5850.7	5758.4	5666.2	5573.9	5488.0	5389.3	5297.1	5220.7	5144.4	5096.6	5061.7
32.5°	5411.6	5328.9	5236.7	5147.6	5068.1	4985.3	4909.0	4842.2	4788.1	4756.2	4730.8
35°	4819.9	4737.2	4667.2	4603.6	4536.7	4501.8	4454.0	4415.8	4393.6	4380.9	4377.7
37.5°	4075.4	4027.7	4005.4	3992.7	3980.0	3970.5	3976.8	3992.7	4005.4	4027.7	4053.1
40°	3280.1	3321.4	3334.2	3378.7	3420.0	3474.1	3534.6	3604.6	3661.8	3735.0	3785.9
42.5°	2554.7	2631.1	2720.1	2815.6	2917.4	3016.0	3136.9	3248.2	3350.0	3442.3	3521.8
45°	1962.9	2080.6	2214.3	2351.1	2487.9	2631.1	2777.4	2914.2	3035.1	3133.7	3216.5
47.5°	1530.3	1660.7	1832.5	2001.2	2166.6	2335.2	2497.4	2640.6	2742.4	2837.8	2911.0
50°	1212.1	1361.7	1549.3	1743.4	1924.8	2102.9	2274.7	2408.4	2510.2	2586.5	2640.6
52.5°	938.5	1116.7	1307.6	1511.2	1705.3	1899.3	2058.4	2182.5	2265.2	2332.0	2373.3
55°	699.9	874.9	1078.5	1288.5	1485.7	1673.4	1823.0	1931.2	2004.3	2042.5	2064.8
57.5°	505.8	664.9	868.5	1078.5	1256.6	1434.8	1555.7	1654.4	1695.7	1718.0	1727.5
60°	369.1	515.4	696.7	878.1	1046.7	1189.9	1294.9	1361.7	1393.5	1406.2	1403.0
62.5°	270.4	397.7	553.6	706.3	843.1	960.8	1043.5	1088.0	1104.0	1110.3	1100.8
65°	206.8	305.4	439.0	556.7	661.8	747.6	808.1	836.8	846.3	843.1	836.8
67.5°	152.7	229.1	327.7	416.8	493.1	559.9	591.8	617.2	623.5	614.0	604.5
70°	108.2	168.6	238.6	299.1	356.3	394.5	429.5	432.7	432.7	429.5	423.2
72.5°	76.4	117.7	162.2	203.6	238.6	267.2	279.9	289.5	286.3	283.1	276.8
75°	50.9	73.2	117.7	127.3	159.0	168.6	181.4	181.4	184.5	175.0	175.0
77.5°	31.8	50.9	70.0	82.7	95.4	108.2	114.5	114.5	117.7	114.5	114.5
80°	19.1	31.8	38.1	57.3	57.3	66.8	70.0	73.2	66.8	76.4	66.8
82.5°	12.7	19.1	28.6	28.6	35.0	41.3	41.3	44.5	44.5	41.3	41.3
85°	9.6	12.7	15.9	19.1	19.1	22.3	19.1	19.1	22.3	25.5	22.3
87.5°	3.2	6.4	3.2	6.4	6.4	12.7	9.6	9.6	9.6	12.7	12.7
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: P248530

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	5993.8	5993.8	5993.8	5993.8
2.5°	6000.2	6003.4	6000.2	6000.2
5°	6028.8	6025.6	6028.8	6022.5
7.5°	6051.1	6051.1	6047.9	6047.9
10°	6051.1	6038.4	6038.4	6038.4
12.5°	6003.4	5987.5	5977.9	5971.5
15°	5920.6	5892.1	5879.3	5876.1
17.5°	5812.5	5787.1	5771.2	5761.6
20°	5688.4	5663.0	5643.9	5647.1
22.5°	5580.2	5551.6	5538.9	5532.5
25°	5472.1	5437.1	5427.6	5421.2
27.5°	5297.1	5278.0	5268.5	5259.0
30°	5029.9	5020.3	5004.4	5026.7
32.5°	4721.3	4705.3	4692.6	4702.2
35°	4380.9	4371.3	4380.9	4374.5
37.5°	4069.1	4078.6	4091.4	4097.7
40°	3824.1	3859.1	3871.8	3878.1
42.5°	3579.1	3620.5	3645.9	3661.8
45°	3276.9	3318.2	3346.9	3366.0
47.5°	2965.1	3000.1	3028.7	3025.6
50°	2682.0	2701.1	2713.7	2726.5
52.5°	2395.6	2395.6	2398.8	2398.8
55°	2071.1	2064.8	2061.6	2064.8
57.5°	1714.8	1708.5	1705.3	1695.7
60°	1390.3	1371.2	1358.5	1358.5
62.5°	1088.0	1065.8	1056.3	1053.1
65°	817.6	814.4	795.3	792.1
67.5°	591.8	579.0	566.3	569.5
70°	416.8	397.7	397.7	391.3
72.5°	270.4	260.9	257.7	257.7
75°	168.6	168.6	162.2	175.0
77.5°	111.3	111.3	108.2	111.3
80°	66.8	66.8	66.8	63.6
82.5°	41.3	44.5	41.3	41.3
85°	22.3	25.5	19.1	28.6
87.5°	12.7	15.9	12.7	15.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)