

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: P249187

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249187  
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 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12130.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 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

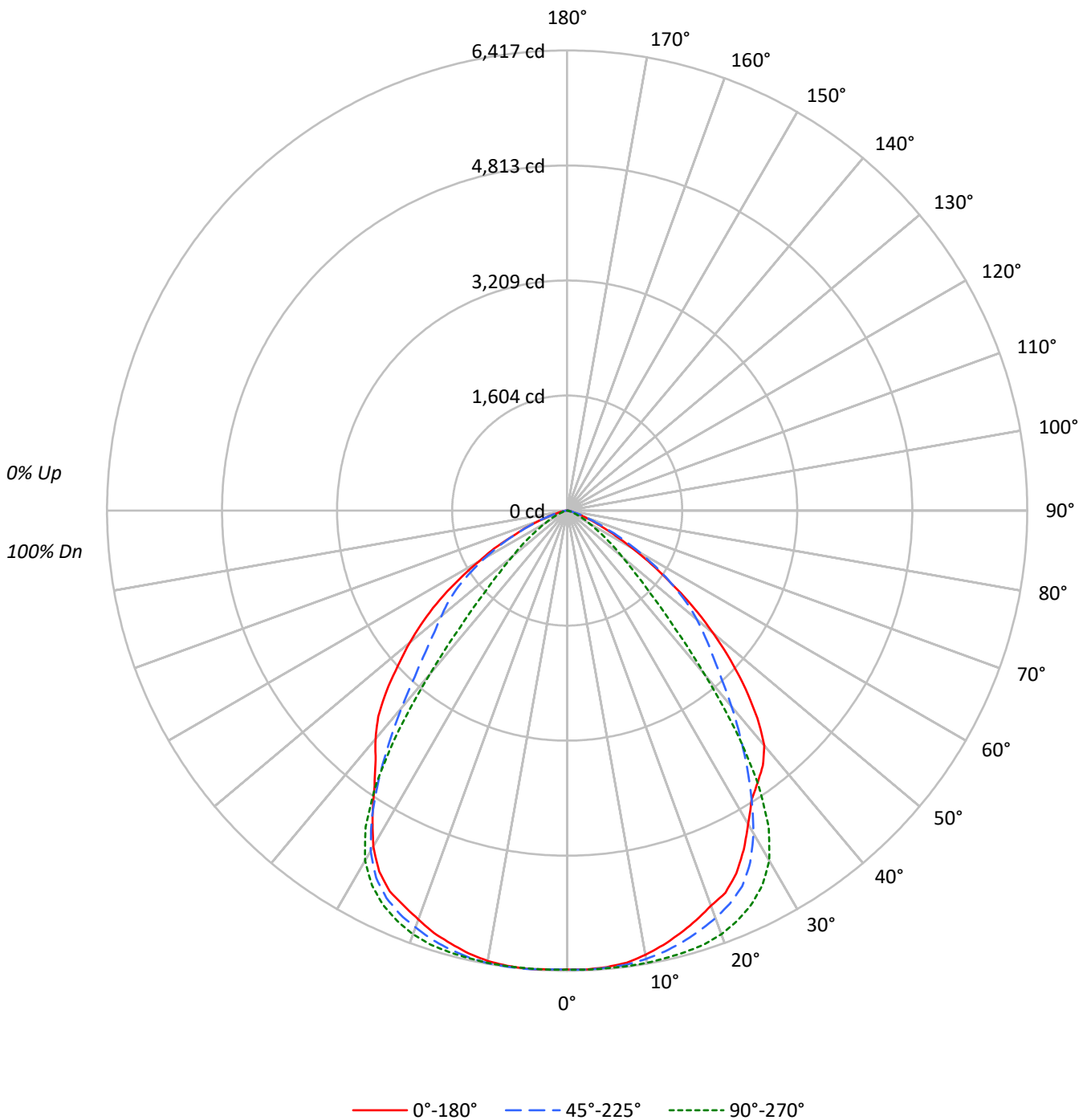
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	610.8	5.0
10°-20°	1773.8	14.6
20°-30°	2692.3	22.2
30°-40°	2827.8	23.3
40°-50°	2120.1	17.5
50°-60°	1360.3	11.2
60°-70°	581.9	4.8
70°-80°	137.5	1.1
80°-90°	25.6	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°	5076.9	41.9
0°-40°	7904.7	65.2
0°-60°	11385.0	93.9
0°-90°	12130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12130.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6400	6400	6400	6400	6400	
5°	6390	6400	6407	6417	6414	607
15°	6101	6228	6372	6331	6252	1721
25°	5582	5778	6070	5960	5857	2550
35°	4631	4373	4634	4579	4682	2906
45°	3518	2875	1652	2793	3566	2694
55°	1780	1780	615	1855	2168	1614
65°	536	632	196	814	828	572
75°	82	96	28	165	162	120
85°	28	17	14	28	38	29
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°	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0
2.5°	6403.5	6410.4	6406.9	6406.9	6403.5	6406.9	6406.9	6413.8	6413.8	6406.9	6403.5
5°	6389.7	6396.6	6396.6	6389.7	6389.7	6406.9	6396.6	6403.5	6403.5	6400.0	6400.0
7.5°	6358.8	6358.8	6372.5	6362.3	6362.3	6372.5	6369.1	6376.0	6382.9	6386.3	6386.3
10°	6290.1	6297.0	6300.4	6300.4	6303.9	6314.1	6321.0	6334.8	6341.6	6348.5	6351.9
12.5°	6204.3	6214.5	6218.0	6214.5	6224.9	6238.6	6255.8	6272.9	6283.3	6297.0	6307.3
15°	6101.1	6101.1	6108.0	6118.4	6125.2	6145.8	6163.0	6183.6	6211.1	6228.3	6245.4
17.5°	5987.8	5994.7	6005.0	6005.0	6018.7	6053.0	6063.4	6094.3	6125.2	6142.4	6176.8
20°	5864.2	5871.0	5881.3	5888.2	5905.3	5932.8	5953.4	5980.9	6015.3	6046.2	6080.5
22.5°	5767.9	5754.2	5761.0	5767.9	5785.1	5809.2	5833.2	5867.5	5901.9	5932.8	5967.2
25°	5582.4	5585.8	5596.2	5603.0	5623.7	5644.3	5671.8	5712.9	5743.9	5778.3	5816.0
27.5°	5331.7	5335.1	5352.3	5352.3	5369.4	5403.8	5420.9	5455.3	5496.6	5530.9	5575.6
30°	5046.5	5053.3	5053.3	5067.1	5077.4	5094.6	5111.8	5146.1	5166.7	5197.7	5259.5
32.5°	4785.5	4792.3	4788.8	4785.5	4775.1	4771.7	4768.2	4775.1	4782.0	4792.3	4816.3
35°	4630.9	4613.6	4599.9	4575.9	4548.4	4514.0	4483.1	4441.9	4404.1	4373.2	4338.9
37.5°	4483.1	4479.7	4459.1	4424.7	4369.7	4307.9	4235.8	4146.5	4057.1	3960.9	3868.2
40°	4277.0	4266.7	4249.5	4201.4	4139.6	4064.0	3967.8	3857.9	3713.6	3565.9	3414.7
42.5°	3926.6	3930.0	3909.4	3871.6	3813.3	3741.0	3641.4	3521.2	3366.7	3191.4	2995.6
45°	3517.8	3517.8	3510.9	3480.0	3438.8	3380.4	3304.8	3205.2	3054.0	2875.3	2665.8
47.5°	3091.8	3095.2	3084.9	3078.1	3060.9	3023.1	2968.1	2892.6	2786.1	2614.3	2404.7
50°	2659.0	2659.0	2676.1	2672.7	2672.7	2659.0	2634.9	2590.2	2497.5	2360.1	2164.3
52.5°	2226.1	2233.0	2243.3	2257.0	2274.2	2301.7	2274.2	2253.6	2195.2	2088.7	1920.4
55°	1779.5	1786.4	1803.5	1827.6	1848.2	1875.7	1882.5	1882.5	1851.6	1779.5	1652.4
57.5°	1398.2	1387.9	1401.7	1422.2	1449.7	1477.2	1497.8	1521.9	1518.4	1470.3	1367.3
60°	1051.2	1054.7	1064.9	1085.6	1106.2	1130.2	1157.7	1178.3	1188.7	1164.6	1099.3
62.5°	766.1	766.1	779.8	800.4	810.7	845.1	862.3	872.6	882.9	879.4	838.2
65°	535.9	542.8	549.6	560.0	570.2	590.8	601.2	621.8	628.7	632.1	601.2
67.5°	377.9	367.6	374.5	381.3	391.6	405.4	426.0	426.0	436.3	436.3	415.7
70°	240.5	240.5	243.9	254.2	261.1	264.5	271.4	278.2	288.6	285.1	285.1
72.5°	161.5	158.0	161.5	164.9	168.4	178.6	178.6	182.1	189.0	192.4	178.6
75°	82.5	85.9	92.7	89.4	99.6	92.7	96.2	106.5	103.1	96.2	96.2
77.5°	68.7	68.7	68.7	65.3	72.1	72.1	68.7	75.6	72.1	72.1	68.7
80°	48.1	51.5	48.1	44.6	48.1	44.6	44.6	44.6	44.6	44.6	41.2
82.5°	37.8	30.9	34.4	30.9	34.4	34.4	30.9	27.5	27.5	30.9	27.5
85°	27.5	20.6	24.0	24.0	20.6	20.6	20.6	20.6	20.6	17.1	17.1
87.5°	17.1	10.3	10.3	10.3	13.7	13.7	13.7	10.3	13.7	13.7	6.9
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°	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0
2.5°	6410.4	6406.9	6413.8	6410.4	6410.4	6406.9	6410.4	6406.9	6413.8	6400.0	6403.5
5°	6410.4	6403.5	6406.9	6410.4	6413.8	6406.9	6406.9	6406.9	6413.8	6406.9	6410.4
7.5°	6396.6	6393.1	6403.5	6410.4	6406.9	6403.5	6410.4	6406.9	6413.8	6410.4	6417.2
10°	6369.1	6372.5	6379.4	6389.7	6393.1	6396.6	6403.5	6403.5	6413.8	6400.0	6406.9
12.5°	6327.9	6341.6	6358.8	6365.6	6379.4	6379.4	6386.3	6389.7	6396.6	6393.1	6403.5
15°	6276.4	6293.5	6314.1	6331.4	6348.5	6358.8	6369.1	6372.5	6382.9	6372.5	6376.0
17.5°	6214.5	6235.1	6266.0	6286.6	6314.1	6324.5	6338.2	6345.1	6355.4	6348.5	6351.9
20°	6128.6	6152.7	6187.0	6218.0	6235.1	6259.1	6276.4	6286.6	6293.5	6286.6	6290.1
22.5°	6008.4	6042.8	6087.4	6111.5	6145.8	6166.4	6169.9	6193.9	6211.1	6193.9	6200.8
25°	5867.5	5901.9	5936.3	5987.8	6018.7	6042.8	6066.8	6070.3	6087.4	6084.0	6080.5
27.5°	5633.9	5678.6	5737.0	5778.3	5819.4	5857.3	5884.8	5891.6	5908.8	5901.9	5905.3
30°	5314.4	5362.6	5417.6	5482.8	5541.2	5579.0	5613.3	5637.4	5654.5	5644.3	5640.8
32.5°	4861.0	4909.1	4967.5	5032.8	5101.5	5156.4	5197.7	5228.6	5249.2	5242.3	5225.2
35°	4342.3	4356.0	4393.8	4445.4	4503.7	4562.1	4599.9	4634.2	4658.3	4665.2	4665.2
37.5°	3809.8	3765.2	3737.7	3737.7	3772.0	3796.0	3830.4	3851.0	3888.8	3902.5	3912.9
40°	3294.5	3191.4	3095.2	3023.1	2975.0	2971.6	2971.6	2981.8	3016.2	3060.9	3102.1
42.5°	2834.2	2669.2	2521.5	2387.6	2291.4	2236.4	2212.4	2215.8	2243.3	2284.5	2353.2
45°	2466.6	2260.5	2075.0	1913.5	1782.9	1697.0	1655.8	1652.4	1673.0	1721.1	1796.7
47.5°	2181.5	1961.6	1752.0	1566.5	1425.7	1332.9	1284.8	1271.1	1284.8	1329.4	1418.8
50°	1944.4	1717.7	1501.3	1308.9	1157.7	1061.6	1016.8	999.7	1016.8	1054.7	1143.9
52.5°	1724.5	1490.9	1288.3	1102.7	941.3	858.8	810.7	800.4	810.7	855.4	927.6
55°	1470.3	1271.1	1071.8	886.3	745.5	663.0	625.2	615.0	625.2	666.5	742.1
57.5°	1219.6	1047.8	872.6	704.2	584.0	511.8	477.5	463.7	487.8	515.3	604.6
60°	985.9	848.6	700.8	553.1	453.5	388.2	360.7	357.2	364.1	398.5	460.3
62.5°	773.0	659.6	542.8	422.6	340.1	312.6	278.2	274.9	281.7	302.3	350.4
65°	556.5	484.4	395.1	309.2	243.9	206.1	192.4	195.9	202.7	216.4	261.1
67.5°	388.2	336.6	274.9	216.4	168.4	151.1	137.4	134.0	137.4	161.5	185.5
70°	261.1	230.1	185.5	164.9	116.8	92.7	96.2	85.9	99.6	99.6	120.2
72.5°	171.7	151.1	123.6	96.2	82.5	65.3	65.3	61.9	68.7	72.1	89.4
75°	89.4	68.7	68.7	48.1	34.4	17.1	30.9	27.5	24.0	27.5	34.4
77.5°	61.9	51.5	48.1	37.8	34.4	27.5	27.5	27.5	27.5	30.9	34.4
80°	37.8	37.8	27.5	24.0	20.6	17.1	20.6	20.6	20.6	20.6	24.0
82.5°	24.0	20.6	20.6	17.1	17.1	13.7	13.7	13.7	13.7	13.7	20.6
85°	20.6	13.7	13.7	10.3	13.7	24.0	10.3	13.7	13.7	13.7	10.3
87.5°	6.9	10.3	10.3	10.3	6.9	3.4	6.9	10.3	10.3	17.1	13.7
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°	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0	6400.0
2.5°	6410.4	6413.8	6413.8	6410.4	6410.4	6403.5	6417.2	6406.9	6410.4	6424.1	6413.8
5°	6417.2	6420.6	6420.6	6417.2	6417.2	6417.2	6420.6	6420.6	6417.2	6413.8	6420.6
7.5°	6431.0	6427.5	6427.5	6420.6	6420.6	6413.8	6420.6	6410.4	6417.2	6410.4	6420.6
10°	6413.8	6417.2	6413.8	6410.4	6410.4	6406.9	6406.9	6396.6	6400.0	6389.7	6396.6
12.5°	6403.5	6400.0	6400.0	6393.1	6386.3	6379.4	6376.0	6365.6	6365.6	6341.6	6351.9
15°	6376.0	6379.4	6369.1	6355.4	6348.5	6331.4	6324.5	6310.7	6297.0	6279.8	6283.3
17.5°	6351.9	6341.6	6327.9	6314.1	6286.6	6272.9	6259.1	6238.6	6231.7	6211.1	6204.3
20°	6279.8	6272.9	6255.8	6231.7	6214.5	6183.6	6169.9	6149.3	6132.1	6111.5	6101.1
22.5°	6187.0	6180.1	6159.5	6135.5	6108.0	6094.3	6080.5	6042.8	6025.6	6005.0	6001.5
25°	6070.3	6059.9	6039.3	6011.9	5998.1	5960.3	5946.5	5919.1	5912.2	5891.6	5888.2
27.5°	5891.6	5877.9	5853.8	5819.4	5795.4	5771.4	5757.7	5737.0	5730.2	5709.5	5706.1
30°	5623.7	5606.4	5558.4	5544.7	5503.4	5479.3	5479.3	5451.9	5455.3	5441.6	5441.6
32.5°	5201.1	5173.6	5135.8	5108.3	5080.8	5067.1	5067.1	5056.8	5063.7	5063.7	5070.6
35°	4641.1	4603.4	4582.7	4565.6	4565.6	4579.3	4620.5	4630.9	4651.5	4668.6	4682.4
37.5°	3923.1	3919.8	3943.8	3964.4	4015.9	4074.3	4146.5	4208.3	4266.7	4307.9	4349.1
40°	3146.8	3232.7	3301.3	3397.6	3476.5	3589.9	3720.5	3827.0	3926.6	3998.8	4074.3
42.5°	2456.2	2566.2	2710.5	2851.3	2992.2	3146.8	3318.6	3466.3	3596.8	3696.4	3775.4
45°	1913.5	2064.6	2239.9	2418.5	2600.6	2793.0	2971.6	3122.7	3260.2	3363.2	3442.2
47.5°	1542.4	1707.4	1906.6	2102.4	2308.5	2511.2	2710.5	2841.0	2954.4	3036.8	3109.0
50°	1274.5	1449.7	1659.3	1882.5	2088.7	2291.4	2463.1	2590.2	2683.0	2755.1	2799.8
52.5°	1064.9	1250.4	1473.8	1697.0	1903.1	2088.7	2243.3	2339.5	2415.0	2466.6	2507.8
55°	879.4	1058.1	1267.7	1477.2	1679.9	1855.1	1982.2	2054.4	2112.7	2143.6	2167.7
57.5°	718.0	882.9	1075.3	1267.7	1442.8	1587.2	1686.8	1758.9	1786.4	1810.4	1807.0
60°	563.4	718.0	893.2	1058.1	1209.2	1326.0	1398.2	1439.4	1460.0	1470.3	1463.4
62.5°	443.1	584.0	718.0	862.3	972.2	1071.8	1140.6	1140.6	1150.8	1154.3	1164.6
65°	329.8	436.3	553.1	659.6	748.9	814.2	852.0	862.3	876.0	872.6	865.7
67.5°	243.9	322.9	408.8	487.8	549.6	590.8	618.3	642.4	639.0	632.1	628.7
70°	168.4	219.9	295.5	343.5	388.2	429.4	436.3	439.7	443.1	446.6	439.7
72.5°	116.8	154.6	195.9	237.0	264.5	281.7	298.9	302.3	302.3	302.3	298.9
75°	58.4	79.0	116.8	134.0	158.0	164.9	178.6	178.6	189.0	175.2	171.7
77.5°	51.5	61.9	82.5	96.2	106.5	116.8	120.2	130.5	127.1	120.2	123.6
80°	30.9	37.8	51.5	58.4	72.1	75.6	79.0	82.5	79.0	82.5	82.5
82.5°	24.0	27.5	34.4	34.4	44.6	44.6	48.1	48.1	51.5	51.5	51.5
85°	13.7	24.0	20.6	41.2	27.5	27.5	34.4	41.2	34.4	34.4	41.2
87.5°	13.7	13.7	10.3	13.7	13.7	13.7	17.1	20.6	20.6	24.0	20.6
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: P249187

CATALOG NUMBER: LSR8B150D010 EC8B1509730 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	6400.0	6400.0	6400.0	6400.0
2.5°	6410.4	6417.2	6406.9	6403.5
5°	6420.6	6420.6	6413.8	6413.8
7.5°	6420.6	6420.6	6410.4	6403.5
10°	6393.1	6393.1	6382.9	6376.0
12.5°	6341.6	6341.6	6338.2	6327.9
15°	6276.4	6276.4	6262.6	6252.3
17.5°	6187.0	6193.9	6176.8	6176.8
20°	6090.9	6087.4	6073.7	6066.8
22.5°	5991.3	5984.4	5980.9	5960.3
25°	5884.8	5877.9	5867.5	5857.3
27.5°	5702.7	5699.2	5688.9	5675.2
30°	5424.4	5420.9	5407.2	5407.2
32.5°	5063.7	5060.2	5046.5	5050.0
35°	4689.2	4703.0	4696.1	4682.4
37.5°	4376.6	4386.9	4393.8	4386.9
40°	4115.5	4146.5	4149.9	4156.8
42.5°	3837.3	3878.5	3892.3	3899.1
45°	3504.0	3541.8	3572.8	3565.9
47.5°	3163.9	3191.4	3218.9	3198.3
50°	2837.6	2854.7	2865.1	2865.1
52.5°	2528.4	2528.4	2525.0	2528.4
55°	2174.6	2174.6	2160.9	2167.7
57.5°	1803.5	1810.4	1800.1	1782.9
60°	1460.0	1442.8	1435.9	1425.7
62.5°	1137.1	1137.1	1113.1	1143.9
65°	852.0	841.7	831.3	827.9
67.5°	618.3	615.0	604.6	601.2
70°	436.3	422.6	419.1	412.2
72.5°	292.0	292.0	285.1	285.1
75°	178.6	161.5	158.0	161.5
77.5°	123.6	120.2	120.2	116.8
80°	82.5	79.0	85.9	75.6
82.5°	51.5	55.0	51.5	55.0
85°	34.4	41.2	37.8	37.8
87.5°	20.6	20.6	20.6	20.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)