

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: P248430

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248430
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: LSR8B120D010 EC8B1209730 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9545.0 lumens
Efficiency: N/A
Efficacy: 80.7 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

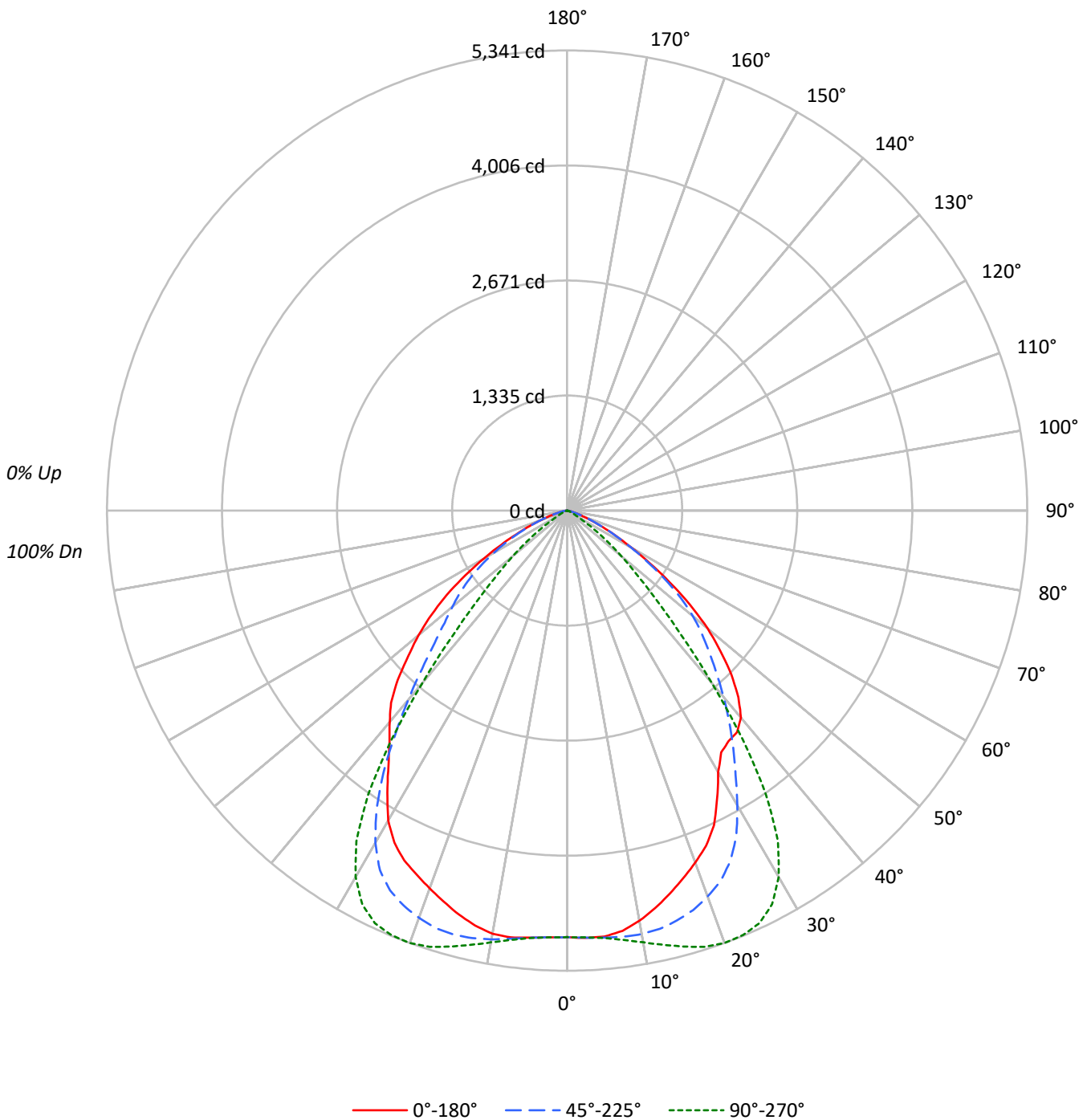
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	476.2	5.0
10°-20°	1410.7	14.8
20°-30°	2152.1	22.5
30°-40°	2245.7	23.5
40°-50°	1686.8	17.7
50°-60°	1037.9	10.9
60°-70°	422.4	4.4
70°-80°	99.5	1.0
80°-90°	13.7	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°	4038.9	42.3
0°-40°	6284.7	65.8
0°-60°	9009.4	94.4
0°-90°	9545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9545.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4952	4952	4952	4952	4952	
5°	4962	4975	4980	4975	4975	469
15°	4602	4925	5238	5094	4854	1296
25°	4032	4484	5283	4865	4479	1833
35°	3267	3359	4024	3719	3614	2063
45°	2697	2334	1456	2174	2781	2057
55°	1456	1382	381	1382	1706	1309
65°	455	460	58	618	654	474
75°	79	79	10	139	145	95
85°	8	8	3	18	24	11
90°	0	0	0	0	0	



TEST NUMBER: P248430

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6
2.5°	4964.8	4956.9	4964.8	4964.8	4967.4	4962.2	4964.8	4967.4	4962.2	4962.2	4962.2
5°	4962.2	4956.9	4962.2	4959.5	4964.8	4964.8	4970.1	4970.1	4975.3	4975.3	4983.2
7.5°	4920.1	4909.6	4920.1	4928.0	4933.2	4943.8	4956.9	4967.4	4977.9	4988.5	5001.6
10°	4833.3	4833.3	4841.3	4857.0	4872.8	4891.2	4914.8	4941.1	4967.4	4991.0	5014.7
12.5°	4725.6	4717.7	4733.5	4754.5	4778.2	4807.1	4843.9	4883.3	4925.4	4972.6	5009.5
15°	4602.1	4594.2	4612.6	4633.6	4662.5	4704.6	4749.3	4801.8	4862.3	4925.4	4985.8
17.5°	4475.9	4473.3	4491.7	4520.6	4544.3	4588.9	4646.8	4709.8	4778.2	4862.3	4941.1
20°	4347.2	4344.5	4362.9	4386.6	4418.1	4460.2	4518.0	4591.5	4673.0	4767.7	4859.6
22.5°	4213.1	4215.7	4231.5	4257.8	4284.1	4328.7	4389.2	4462.8	4552.1	4654.6	4757.1
25°	4031.7	4018.6	4039.6	4065.9	4110.6	4147.4	4205.2	4284.1	4376.0	4483.8	4604.7
27.5°	3768.9	3766.3	3784.7	3808.3	3847.7	3892.4	3955.5	4037.0	4134.2	4252.5	4370.8
30°	3506.1	3511.3	3519.3	3542.9	3569.2	3613.9	3676.9	3745.3	3837.3	3950.3	4076.4
32.5°	3327.4	3327.4	3337.9	3353.7	3372.0	3395.7	3440.4	3490.3	3561.3	3640.2	3732.1
35°	3266.9	3256.4	3266.9	3269.5	3272.2	3277.4	3285.3	3301.1	3324.7	3358.9	3393.1
37.5°	3240.7	3232.8	3232.8	3222.3	3209.1	3193.3	3172.3	3148.6	3122.4	3088.2	3061.9
40°	3138.2	3132.9	3127.6	3117.1	3088.2	3056.7	3022.5	2967.3	2906.8	2822.7	2738.7
42.5°	2941.0	2935.8	2933.1	2912.1	2885.8	2849.0	2809.6	2751.8	2675.6	2567.8	2446.9
45°	2696.6	2686.1	2678.2	2659.8	2641.4	2609.9	2573.1	2520.5	2444.3	2333.9	2189.3
47.5°	2412.7	2407.5	2404.8	2397.0	2378.6	2360.1	2336.5	2294.5	2226.1	2121.0	1971.2
50°	2126.3	2115.8	2121.0	2118.4	2110.5	2097.4	2081.6	2052.7	2000.1	1905.5	1768.8
52.5°	1797.7	1797.7	1795.1	1803.0	1805.6	1803.0	1805.6	1774.1	1729.4	1658.4	1542.8
55°	1456.0	1456.0	1463.9	1474.5	1485.0	1487.6	1485.0	1471.8	1440.3	1382.5	1279.9
57.5°	1135.4	1130.2	1145.9	1161.7	1172.2	1182.7	1174.8	1164.3	1145.9	1098.6	1019.8
60°	864.7	864.7	875.2	885.7	896.2	906.8	904.1	901.5	885.7	854.2	791.1
62.5°	636.0	638.7	638.7	646.6	657.0	667.6	675.4	667.6	659.7	638.7	596.6
65°	454.7	452.0	454.7	462.6	470.5	481.0	486.2	483.6	475.7	459.9	428.4
67.5°	304.9	302.3	312.7	315.4	320.6	331.2	328.6	331.2	328.6	315.4	289.1
70°	199.7	194.5	199.7	197.1	205.0	207.7	212.9	215.5	212.9	205.0	197.1
72.5°	123.5	120.9	123.5	126.2	128.8	131.4	136.7	136.7	134.0	128.8	118.3
75°	78.8	70.9	73.6	68.4	73.6	73.6	78.8	81.5	78.8	78.8	73.6
77.5°	47.3	47.3	47.3	47.3	47.3	47.3	47.3	50.0	52.5	47.3	44.7
80°	23.7	23.7	26.3	26.3	26.3	28.9	26.3	26.3	26.3	28.9	21.0
82.5°	18.4	15.8	15.8	15.8	18.4	15.8	15.8	15.8	15.8	15.8	15.8
85°	7.9	10.5	7.9	5.3	7.9	7.9	10.5	7.9	7.9	7.9	10.5
87.5°	2.6	2.6	0.0	0.0	0.0	2.6	0.0	2.6	2.6	5.3	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°	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6
2.5°	4964.8	4959.5	4959.5	4956.9	4962.2	4956.9	4959.5	4956.9	4956.9	4962.2	4956.9
5°	4983.2	4985.8	4980.5	4977.9	4985.8	4985.8	4985.8	4980.5	4980.5	4983.2	4980.5
7.5°	5009.5	5014.7	5017.3	5020.0	5025.2	5027.9	5027.9	5025.2	5022.6	5030.5	5020.0
10°	5038.4	5046.3	5062.0	5069.9	5083.1	5083.1	5088.3	5088.3	5083.1	5088.3	5085.7
12.5°	5027.9	5075.1	5101.4	5119.8	5138.2	5154.0	5159.3	5161.9	5159.3	5169.8	5159.3
15°	5046.3	5085.7	5127.8	5159.3	5193.4	5211.8	5217.1	5238.1	5243.4	5246.0	5230.3
17.5°	5017.3	5088.3	5133.0	5180.3	5230.3	5264.4	5295.9	5309.1	5311.7	5316.9	5295.9
20°	4951.6	5030.5	5098.8	5167.2	5225.0	5277.5	5303.8	5340.6	5330.1	5351.2	5322.2
22.5°	4862.3	4951.6	5038.4	5127.8	5188.2	5251.3	5306.5	5332.7	5345.9	5345.9	5314.3
25°	4720.4	4825.5	4920.1	5012.1	5104.1	5180.3	5243.4	5282.8	5290.7	5288.1	5251.3
27.5°	4499.6	4612.6	4723.0	4828.1	4941.1	5030.5	5104.1	5151.4	5164.5	5164.5	5125.1
30°	4194.7	4315.6	4423.4	4549.5	4665.2	4765.0	4867.6	4909.6	4933.2	4933.2	4888.6
32.5°	3832.0	3934.5	4034.4	4157.9	4284.1	4397.1	4494.3	4552.1	4581.1	4578.4	4539.0
35°	3437.8	3487.7	3563.9	3655.9	3768.9	3874.0	3968.6	4023.9	4073.8	4071.2	4034.4
37.5°	3043.5	3030.4	3038.3	3072.4	3143.4	3217.0	3290.6	3343.2	3385.2	3403.6	3395.7
40°	2657.2	2588.8	2523.1	2499.5	2504.7	2531.0	2570.4	2609.9	2657.2	2680.9	2691.3
42.5°	2310.2	2194.6	2078.9	1992.2	1942.3	1926.5	1944.9	1958.0	1987.0	2021.1	2055.3
45°	2031.7	1876.6	1724.1	1590.1	1506.0	1456.0	1445.5	1456.0	1471.8	1506.0	1550.7
47.5°	1803.0	1621.6	1450.8	1301.0	1177.4	1111.8	1093.4	1088.1	1103.9	1135.4	1195.8
50°	1600.6	1419.2	1230.0	1056.5	927.8	854.2	827.9	817.4	835.8	859.4	914.6
52.5°	1379.8	1201.1	1006.6	838.4	704.4	628.2	599.2	583.5	594.0	625.5	680.7
55°	1140.7	975.1	799.0	625.5	496.7	425.8	391.6	381.1	391.6	425.8	481.0
57.5°	901.5	762.2	615.0	452.0	336.4	265.5	231.3	220.8	249.7	262.8	320.6
60°	704.4	591.4	465.2	331.2	231.3	176.1	141.9	134.0	147.2	170.8	218.1
62.5°	528.3	457.3	357.4	236.5	170.8	113.0	94.6	86.8	94.6	113.0	149.8
65°	383.7	328.6	249.7	173.4	115.6	84.1	63.1	57.8	65.7	78.8	110.4
67.5°	262.8	220.8	173.4	120.9	78.8	52.5	44.7	44.7	47.3	57.8	81.5
70°	170.8	144.6	110.4	78.8	52.5	39.4	34.1	28.9	34.1	42.1	55.2
72.5°	107.8	92.0	70.9	55.2	39.4	28.9	23.7	21.0	26.3	31.5	42.1
75°	65.7	50.0	36.8	28.9	21.0	21.0	21.0	10.5	13.1	21.0	26.3
77.5°	39.4	34.1	28.9	23.7	18.4	10.5	10.5	10.5	13.1	15.8	23.7
80°	21.0	18.4	13.1	13.1	10.5	7.9	10.5	7.9	5.3	13.1	15.8
82.5°	13.1	10.5	10.5	10.5	13.1	5.3	7.9	5.3	7.9	10.5	7.9
85°	7.9	7.9	7.9	5.3	13.1	5.3	5.3	2.6	2.6	5.3	5.3
87.5°	0.0	2.6	2.6	0.0	2.6	0.0	2.6	2.6	2.6	2.6	2.6
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°	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6	4951.6
2.5°	4959.5	4956.9	4959.5	4956.9	4956.9	4956.9	4959.5	4959.5	4956.9	4956.9	4962.2
5°	4980.5	4980.5	4980.5	4977.9	4975.3	4975.3	4980.5	4980.5	4972.6	4980.5	4980.5
7.5°	5025.2	5017.3	5025.2	5014.7	5009.5	5012.1	5014.7	5009.5	5004.2	5006.8	5006.8
10°	5083.1	5075.1	5075.1	5067.3	5059.4	5054.1	5048.9	5035.7	5022.6	5020.0	5009.5
12.5°	5151.4	5138.2	5130.4	5114.6	5101.4	5083.1	5067.3	5046.3	5020.0	5001.6	4983.2
15°	5219.7	5198.7	5180.3	5154.0	5125.1	5093.5	5059.4	5025.2	4983.2	4946.4	4914.8
17.5°	5274.9	5246.0	5211.8	5169.8	5127.8	5080.4	5030.5	4980.5	4920.1	4872.8	4836.0
20°	5293.3	5251.3	5206.6	5151.4	5096.2	5030.5	4967.4	4901.7	4833.3	4783.4	4741.4
22.5°	5269.7	5219.7	5164.5	5106.7	5033.1	4962.2	4888.6	4812.3	4751.9	4683.6	4644.1
25°	5204.0	5143.5	5083.1	5014.7	4943.8	4864.9	4786.1	4707.2	4633.6	4596.8	4546.9
27.5°	5069.9	5004.2	4938.5	4867.6	4786.1	4707.2	4625.8	4549.5	4486.5	4436.5	4407.6
30°	4833.3	4757.1	4680.9	4604.7	4533.7	4452.2	4376.0	4313.0	4249.9	4210.4	4181.6
32.5°	4470.6	4402.3	4326.1	4252.5	4186.8	4118.5	4055.4	4000.2	3955.5	3929.2	3908.2
35°	3981.8	3913.5	3855.7	3803.1	3747.9	3719.0	3679.6	3648.0	3629.6	3619.1	3616.5
37.5°	3366.8	3327.4	3309.0	3298.5	3287.9	3280.1	3285.3	3298.5	3309.0	3327.4	3348.4
40°	2709.7	2743.9	2754.4	2791.2	2825.4	2870.1	2920.0	2977.8	3025.1	3085.6	3127.6
42.5°	2110.5	2173.6	2247.2	2326.0	2410.1	2491.6	2591.5	2683.4	2767.5	2843.8	2909.5
45°	1621.6	1718.9	1829.3	1942.3	2055.3	2173.6	2294.5	2407.5	2507.3	2588.8	2657.2
47.5°	1264.2	1372.0	1513.9	1653.2	1789.9	1929.1	2063.2	2181.4	2265.5	2344.4	2404.8
50°	1001.4	1124.9	1279.9	1440.3	1590.1	1737.2	1879.2	1989.6	2073.7	2136.8	2181.4
52.5°	775.3	922.5	1080.2	1248.4	1408.8	1569.1	1700.5	1803.0	1871.3	1926.5	1960.7
55°	578.2	722.8	891.0	1064.4	1227.4	1382.5	1506.0	1595.4	1655.8	1687.3	1705.7
57.5°	417.9	549.3	717.5	891.0	1038.1	1185.3	1285.2	1366.7	1400.8	1419.2	1427.1
60°	304.9	425.8	575.6	725.4	864.7	983.0	1069.7	1124.9	1151.2	1161.7	1159.0
62.5°	223.4	328.6	457.3	583.5	696.5	793.7	862.1	898.8	912.0	917.2	909.4
65°	170.8	252.3	362.7	459.9	546.7	617.6	667.6	691.3	699.1	696.5	691.3
67.5°	126.2	189.3	270.7	344.3	407.4	462.6	488.9	509.9	515.1	507.3	499.4
70°	89.4	139.3	197.1	247.1	294.3	325.9	354.8	357.4	357.4	354.8	349.6
72.5°	63.1	97.2	134.0	168.2	197.1	220.8	231.3	239.2	236.5	233.9	228.7
75°	42.1	60.5	97.2	105.1	131.4	139.3	149.8	149.8	152.4	144.6	144.6
77.5°	26.3	42.1	57.8	68.4	78.8	89.4	94.6	94.6	97.2	94.6	94.6
80°	15.8	26.3	31.5	47.3	47.3	55.2	57.8	60.5	55.2	63.1	55.2
82.5°	10.5	15.8	23.7	23.7	28.9	34.1	34.1	36.8	36.8	34.1	34.1
85°	7.9	10.5	13.1	15.8	15.8	18.4	15.8	15.8	18.4	21.0	18.4
87.5°	2.6	5.3	2.6	5.3	5.3	10.5	7.9	7.9	7.9	10.5	10.5
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: P248430

CATALOG NUMBER: LSR8B120D010 EC8B1209730 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4951.6	4951.6	4951.6	4951.6
2.5°	4956.9	4959.5	4956.9	4956.9
5°	4980.5	4977.9	4980.5	4975.3
7.5°	4998.9	4998.9	4996.3	4996.3
10°	4998.9	4988.5	4988.5	4988.5
12.5°	4959.5	4946.4	4938.5	4933.2
15°	4891.2	4867.6	4857.0	4854.4
17.5°	4801.8	4780.8	4767.7	4759.8
20°	4699.3	4678.3	4662.5	4665.2
22.5°	4609.9	4586.3	4575.8	4570.5
25°	4520.6	4491.7	4483.8	4478.6
27.5°	4376.0	4360.3	4352.4	4344.5
30°	4155.3	4147.4	4134.2	4152.6
32.5°	3900.3	3887.2	3876.7	3884.6
35°	3619.1	3611.2	3619.1	3613.9
37.5°	3361.6	3369.4	3380.0	3385.2
40°	3159.2	3188.1	3198.6	3203.8
42.5°	2956.8	2991.0	3012.0	3025.1
45°	2707.1	2741.2	2764.9	2780.7
47.5°	2449.5	2478.5	2502.1	2499.5
50°	2215.6	2231.4	2241.9	2252.4
52.5°	1979.0	1979.0	1981.7	1981.7
55°	1711.0	1705.7	1703.1	1705.7
57.5°	1416.6	1411.4	1408.8	1400.8
60°	1148.6	1132.8	1122.3	1122.3
62.5°	898.8	880.5	872.6	870.0
65°	675.4	672.8	657.0	654.4
67.5°	488.9	478.3	467.8	470.5
70°	344.3	328.6	328.6	323.3
72.5°	223.4	215.5	212.9	212.9
75°	139.3	139.3	134.0	144.6
77.5°	92.0	92.0	89.4	92.0
80°	55.2	55.2	55.2	52.5
82.5°	34.1	36.8	34.1	34.1
85°	18.4	21.0	15.8	23.7
87.5°	10.5	13.1	10.5	13.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)