

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: P249303

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249303
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: LSR8B120D010 EC8B120827 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11466.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

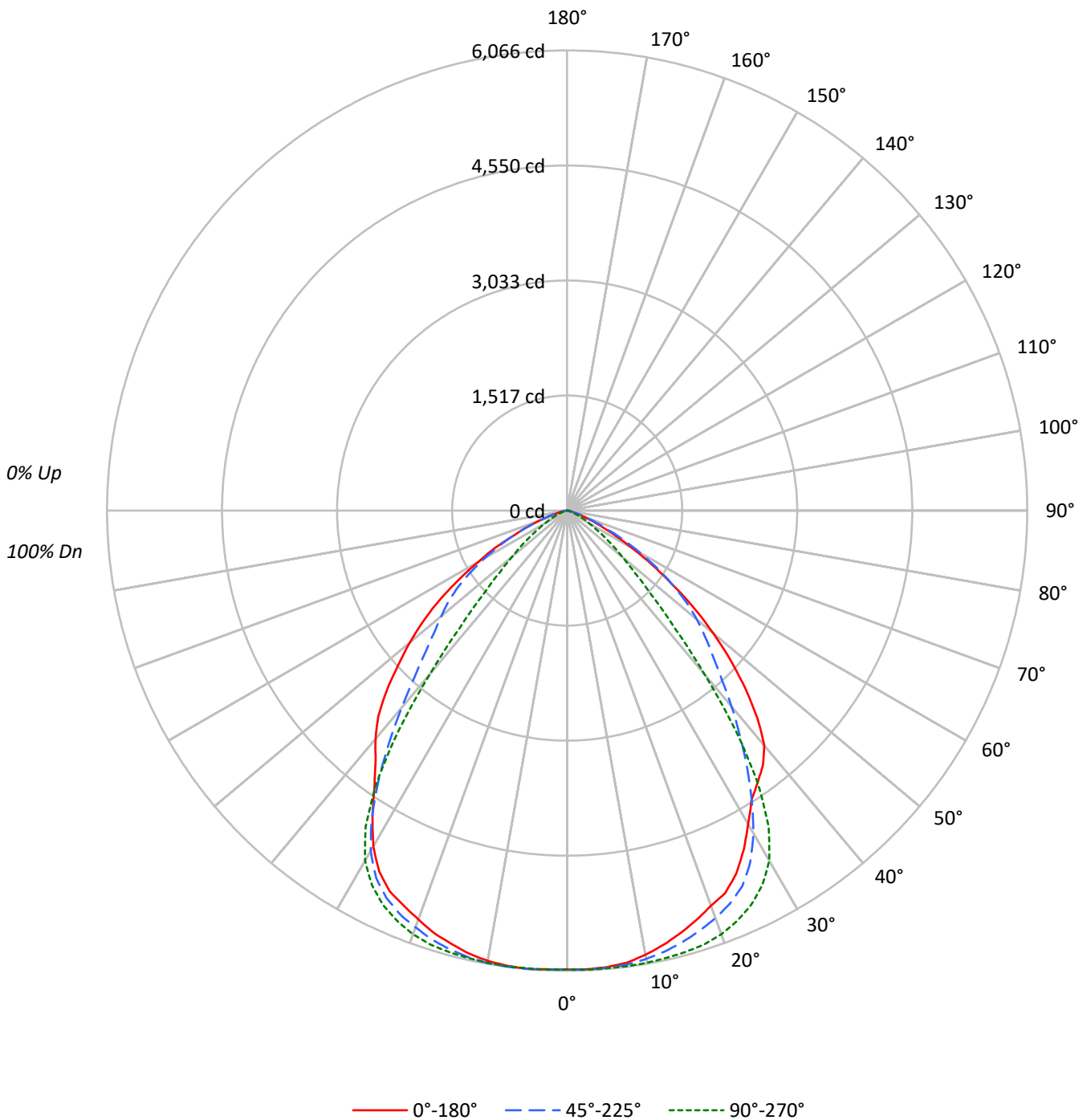
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	186550	186550	186550
5°	186960	187464	187665
10°	186175	189528	188718
15°	184109	192301	188675
20°	181902	195005	188186
25°	179538	195230	188378
30°	169855	189741	181993
35°	164784	164904	166617
40°	162743	113460	158166
45°	145009	68113	146993
50°	120575	45334	129925
55°	90432	31252	110157
60°	61284	20827	83110
65°	36964	13506	57102
70°	20493	7321	35135
75°	9281	3098	18181
80°	8062	3463	12679
85°	9199	4599	12666



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.4	5.0
10°-20°	1676.7	14.6
20°-30°	2545.0	22.2
30°-40°	2673.0	23.3
40°-50°	2004.0	17.5
50°-60°	1285.8	11.2
60°-70°	550.1	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°	4799.0	41.9
0°-40°	7472.0	65.2
0°-60°	10761.8	93.9
0°-90°	11466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11466.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6050	6050	6050	6050	6050	
5°	6040	6050	6056	6066	6063	574
15°	5767	5887	6024	5985	5910	1627
25°	5277	5462	5738	5634	5537	2411
35°	4377	4134	4381	4329	4426	2747
45°	3325	2718	1562	2640	3371	2547
55°	1682	1682	581	1754	2049	1526
65°	507	598	185	770	783	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°	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7
2.5°	6052.9	6059.5	6056.2	6056.2	6052.9	6056.2	6056.2	6062.7	6062.7	6056.2	6052.9
5°	6039.9	6046.4	6046.4	6039.9	6039.9	6056.2	6046.4	6052.9	6052.9	6049.7	6049.7
7.5°	6010.8	6010.8	6023.7	6014.0	6014.0	6023.7	6020.4	6027.0	6033.5	6036.7	6036.7
10°	5945.8	5952.3	5955.5	5955.5	5958.8	5968.5	5975.0	5988.0	5994.5	6001.0	6004.2
12.5°	5864.6	5874.3	5877.6	5874.3	5884.1	5897.1	5913.3	5929.5	5939.3	5952.3	5962.0
15°	5767.1	5767.1	5773.7	5783.4	5789.9	5809.4	5825.6	5845.1	5871.1	5887.4	5903.6
17.5°	5660.0	5666.5	5676.2	5676.2	5689.3	5721.7	5731.5	5760.7	5789.9	5806.2	5838.7
20°	5543.2	5549.6	5559.4	5565.9	5582.1	5608.1	5627.5	5653.5	5686.0	5715.3	5747.7
22.5°	5452.2	5439.2	5445.7	5452.2	5468.5	5491.2	5513.9	5546.3	5578.8	5608.1	5640.6
25°	5276.8	5280.1	5289.8	5296.3	5315.8	5335.3	5361.3	5400.2	5429.5	5462.0	5497.6
27.5°	5039.8	5043.1	5059.3	5059.3	5075.5	5108.0	5124.2	5156.7	5195.7	5228.1	5270.4
30°	4770.3	4776.7	4776.7	4789.8	4799.5	4815.7	4831.9	4864.4	4883.9	4913.2	4971.6
32.5°	4523.5	4529.9	4526.7	4523.5	4513.7	4510.5	4507.2	4513.7	4520.2	4529.9	4552.7
35°	4377.4	4361.1	4348.1	4325.4	4299.4	4266.9	4237.7	4198.8	4163.0	4133.8	4101.3
37.5°	4237.7	4234.4	4215.0	4182.5	4130.5	4072.1	4003.9	3919.5	3835.0	3744.1	3656.5
40°	4042.9	4033.1	4016.9	3971.4	3913.0	3841.5	3750.6	3646.7	3510.3	3370.7	3227.8
42.5°	3711.6	3714.9	3695.4	3659.7	3604.5	3536.3	3442.1	3328.5	3182.4	3016.7	2831.6
45°	3325.2	3325.2	3318.7	3289.5	3250.5	3195.3	3123.9	3029.7	2886.9	2717.9	2519.9
47.5°	2922.5	2925.8	2916.0	2909.6	2893.3	2857.6	2805.7	2734.2	2633.6	2471.2	2273.1
50°	2513.4	2513.4	2529.6	2526.4	2526.4	2513.4	2490.7	2448.4	2360.8	2230.9	2045.8
52.5°	2104.2	2110.7	2120.5	2133.5	2149.7	2175.7	2149.7	2130.2	2075.0	1974.3	1815.2
55°	1682.1	1688.6	1704.8	1727.5	1747.1	1773.1	1779.5	1779.5	1750.3	1682.1	1561.9
57.5°	1321.7	1311.9	1324.9	1344.4	1370.4	1396.4	1415.8	1438.5	1435.3	1389.8	1292.4
60°	993.7	996.9	1006.6	1026.2	1045.6	1068.4	1094.3	1113.8	1123.6	1100.9	1039.1
62.5°	724.2	724.2	737.1	756.6	766.4	798.8	815.1	824.8	834.5	831.3	792.3
65°	506.6	513.0	519.6	529.3	539.0	558.5	568.3	587.7	594.3	597.5	568.3
67.5°	357.2	347.5	354.0	360.4	370.2	383.2	402.7	402.7	412.4	412.4	392.9
70°	227.3	227.3	230.6	240.3	246.8	250.0	256.6	263.0	272.8	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	94.2	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°	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7
2.5°	6059.5	6056.2	6062.7	6059.5	6059.5	6056.2	6059.5	6056.2	6062.7	6049.7	6052.9
5°	6059.5	6052.9	6056.2	6059.5	6062.7	6056.2	6056.2	6056.2	6062.7	6056.2	6059.5
7.5°	6046.4	6043.2	6052.9	6059.5	6056.2	6052.9	6059.5	6056.2	6062.7	6059.5	6065.9
10°	6020.4	6023.7	6030.2	6039.9	6043.2	6046.4	6052.9	6052.9	6062.7	6049.7	6056.2
12.5°	5981.5	5994.5	6010.8	6017.2	6030.2	6030.2	6036.7	6039.9	6046.4	6043.2	6052.9
15°	5932.8	5949.0	5968.5	5984.8	6001.0	6010.8	6020.4	6023.7	6033.5	6023.7	6027.0
17.5°	5874.3	5893.8	5923.0	5942.5	5968.5	5978.3	5991.2	5997.7	6007.5	6001.0	6004.2
20°	5793.1	5815.9	5848.3	5877.6	5893.8	5916.5	5932.8	5942.5	5949.0	5942.5	5945.8
22.5°	5679.5	5712.0	5754.2	5776.9	5809.4	5828.9	5832.1	5854.9	5871.1	5854.9	5861.4
25°	5546.3	5578.8	5611.3	5660.0	5689.3	5712.0	5734.7	5738.0	5754.2	5750.9	5747.7
27.5°	5325.5	5367.8	5422.9	5462.0	5500.9	5536.6	5562.6	5569.1	5585.3	5578.8	5582.1
30°	5023.5	5069.0	5121.0	5182.7	5237.9	5273.6	5306.1	5328.8	5345.0	5335.3	5332.0
32.5°	4594.9	4640.4	4695.6	4757.3	4822.3	4874.1	4913.2	4942.4	4961.9	4955.3	4939.1
35°	4104.6	4117.6	4153.3	4202.0	4257.2	4312.4	4348.1	4380.6	4403.3	4409.8	4409.8
37.5°	3601.3	3559.1	3533.1	3533.1	3565.5	3588.2	3620.7	3640.2	3675.9	3688.9	3698.7
40°	3114.1	3016.7	2925.8	2857.6	2812.2	2808.9	2808.9	2818.6	2851.1	2893.3	2932.3
42.5°	2679.0	2523.1	2383.5	2256.9	2166.0	2114.0	2091.3	2094.5	2120.5	2159.5	2224.4
45°	2331.6	2136.7	1961.4	1808.7	1685.3	1604.1	1565.2	1561.9	1581.4	1626.9	1698.4
47.5°	2062.0	1854.2	1656.1	1480.7	1347.6	1259.9	1214.5	1201.5	1214.5	1256.7	1341.1
50°	1838.0	1623.7	1419.1	1237.2	1094.3	1003.4	961.2	945.0	961.2	996.9	1081.3
52.5°	1630.1	1409.3	1217.7	1042.4	889.7	811.8	766.4	756.6	766.4	808.5	876.8
55°	1389.8	1201.5	1013.1	837.8	704.7	626.7	591.0	581.3	591.0	630.0	701.4
57.5°	1152.8	990.4	824.8	665.7	552.1	483.8	451.4	438.4	461.1	487.1	571.5
60°	931.9	802.1	662.4	522.8	428.7	366.9	340.9	337.7	344.2	376.7	435.1
62.5°	730.7	623.5	513.0	399.4	321.5	295.5	263.0	259.8	266.3	285.7	331.3
65°	526.1	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	142.9	129.9	126.7	129.9	152.6	175.4
70°	246.8	217.6	175.4	155.9	110.4	87.6	90.9	81.2	94.2	94.2	113.6
72.5°	162.3	142.9	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°	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7	6049.7
2.5°	6059.5	6062.7	6062.7	6059.5	6059.5	6052.9	6065.9	6056.2	6059.5	6072.4	6062.7
5°	6065.9	6069.2	6069.2	6065.9	6065.9	6065.9	6069.2	6069.2	6065.9	6062.7	6069.2
7.5°	6078.9	6075.7	6075.7	6069.2	6069.2	6062.7	6069.2	6059.5	6065.9	6059.5	6069.2
10°	6062.7	6065.9	6062.7	6059.5	6059.5	6056.2	6056.2	6046.4	6049.7	6039.9	6046.4
12.5°	6052.9	6049.7	6049.7	6043.2	6036.7	6030.2	6027.0	6017.2	6017.2	5994.5	6004.2
15°	6027.0	6030.2	6020.4	6007.5	6001.0	5984.8	5978.3	5965.2	5952.3	5936.1	5939.3
17.5°	6004.2	5994.5	5981.5	5968.5	5942.5	5929.5	5916.5	5897.1	5890.5	5871.1	5864.6
20°	5936.1	5929.5	5913.3	5890.5	5874.3	5845.1	5832.1	5812.7	5796.4	5776.9	5767.1
22.5°	5848.3	5841.8	5822.4	5799.6	5773.7	5760.7	5747.7	5712.0	5695.7	5676.2	5673.0
25°	5738.0	5728.2	5708.7	5682.8	5669.7	5634.1	5621.0	5595.0	5588.6	5569.1	5565.9
27.5°	5569.1	5556.1	5533.4	5500.9	5478.2	5455.4	5442.5	5422.9	5416.5	5397.0	5393.8
30°	5315.8	5299.5	5254.1	5241.1	5202.1	5179.4	5179.4	5153.4	5156.7	5143.7	5143.7
32.5°	4916.4	4890.4	4854.7	4828.7	4802.7	4789.8	4789.8	4780.0	4786.5	4786.5	4793.0
35°	4387.1	4351.4	4331.9	4315.6	4315.6	4328.6	4367.6	4377.4	4396.8	4413.1	4426.1
37.5°	3708.4	3705.2	3727.9	3747.4	3796.1	3851.3	3919.5	3978.0	4033.1	4072.1	4111.0
40°	2974.5	3055.7	3120.6	3211.6	3286.2	3393.4	3516.8	3617.5	3711.6	3779.9	3851.3
42.5°	2321.8	2425.7	2562.1	2695.2	2828.4	2974.5	3136.9	3276.5	3399.9	3494.1	3568.8
45°	1808.7	1951.6	2117.3	2286.1	2458.2	2640.1	2808.9	2951.8	3081.7	3179.1	3253.8
47.5°	1458.0	1613.9	1802.2	1987.3	2182.2	2373.7	2562.1	2685.5	2792.6	2870.6	2938.8
50°	1204.7	1370.4	1568.5	1779.5	1974.3	2166.0	2328.3	2448.4	2536.1	2604.3	2646.5
52.5°	1006.6	1182.0	1393.1	1604.1	1799.0	1974.3	2120.5	2211.4	2282.8	2331.6	2370.5
55°	831.3	1000.2	1198.3	1396.4	1587.9	1753.5	1873.6	1941.9	1997.0	2026.3	2049.0
57.5°	678.7	834.5	1016.4	1198.3	1363.9	1500.3	1594.4	1662.6	1688.6	1711.3	1708.1
60°	532.6	678.7	844.3	1000.2	1143.1	1253.4	1321.7	1360.6	1380.1	1389.8	1383.3
62.5°	418.9	552.1	678.7	815.1	919.0	1013.1	1078.1	1078.1	1087.8	1091.1	1100.9
65°	311.7	412.4	522.8	623.5	707.9	769.6	805.4	815.1	828.1	824.8	818.3
67.5°	230.6	305.3	386.4	461.1	519.6	558.5	584.5	607.3	604.0	597.5	594.3
70°	159.1	207.9	279.3	324.7	366.9	405.9	412.4	415.6	418.9	422.1	415.6
72.5°	110.4	146.1	185.1	224.1	250.0	266.3	282.5	285.7	285.7	285.7	282.5
75°	55.2	74.7	110.4	126.7	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: P249303

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6049.7	6049.7	6049.7	6049.7
2.5°	6059.5	6065.9	6056.2	6052.9
5°	6069.2	6069.2	6062.7	6062.7
7.5°	6069.2	6069.2	6059.5	6052.9
10°	6043.2	6043.2	6033.5	6027.0
12.5°	5994.5	5994.5	5991.2	5981.5
15°	5932.8	5932.8	5919.8	5910.1
17.5°	5848.3	5854.9	5838.7	5838.7
20°	5757.4	5754.2	5741.2	5734.7
22.5°	5663.3	5656.8	5653.5	5634.1
25°	5562.6	5556.1	5546.3	5536.6
27.5°	5390.5	5387.3	5377.5	5364.5
30°	5127.4	5124.2	5111.2	5111.2
32.5°	4786.5	4783.2	4770.3	4773.5
35°	4432.5	4445.6	4439.0	4426.1
37.5°	4137.0	4146.8	4153.3	4146.8
40°	3890.2	3919.5	3922.7	3929.2
42.5°	3627.2	3666.2	3679.2	3685.6
45°	3312.2	3348.0	3377.2	3370.7
47.5°	2990.7	3016.7	3042.7	3023.2
50°	2682.3	2698.5	2708.3	2708.3
52.5°	2390.0	2390.0	2386.8	2390.0
55°	2055.5	2055.5	2042.6	2049.0
57.5°	1704.8	1711.3	1701.5	1685.3
60°	1380.1	1363.9	1357.3	1347.6
62.5°	1074.9	1074.9	1052.2	1081.3
65°	805.4	795.6	785.8	782.6
67.5°	584.5	581.3	571.5	568.3
70°	412.4	399.4	396.2	389.7
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)