

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: P248771

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBSWOGPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100830 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9680.0 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

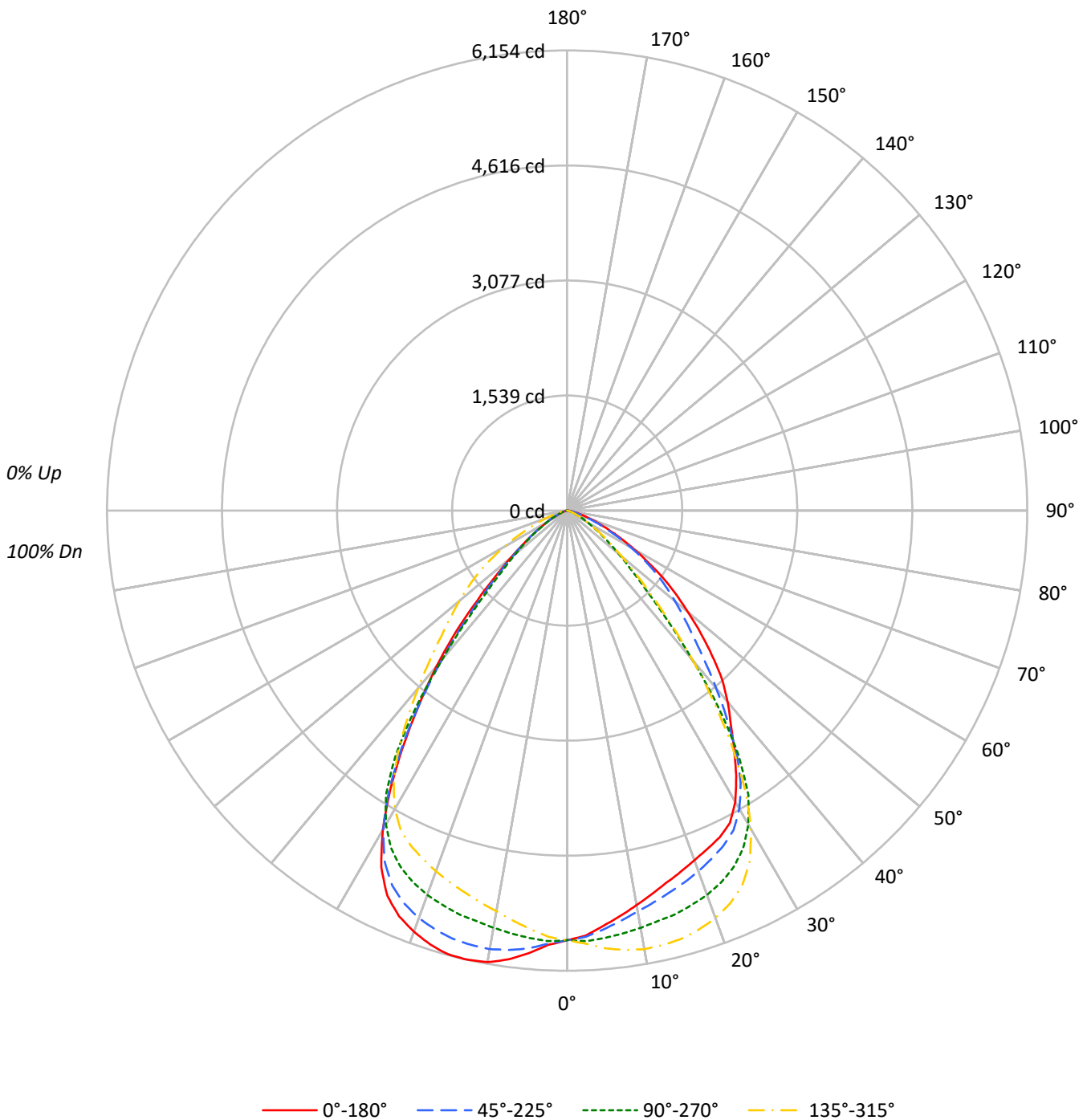
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	177207	177207	177207	177207
5°	172501	177624	183966	177624
10°	167729	177392	191977	177392
15°	164377	178443	196180	178443
20°	163260	179464	196682	179464
25°	164115	179103	193522	179103
30°	160059	172547	175648	172547
35°	146406	150520	142815	150520
40°	134416	104705	109342	104705
45°	119432	63874	73909	63874
50°	101093	42667	47383	42667
55°	83728	29117	30773	29117
60°	63856	19384	19550	19384
65°	45246	12076	11054	12076
70°	32638	8087	7339	8087
75°	20719	4015	3348	4015
80°	14455	3001	2486	3001
85°	12914	0	991	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.0	5.7
10°-20°	1583.9	16.4
20°-30°	2398.4	24.8
30°-40°	2403.8	24.8
40°-50°	1509.5	15.6
50°-60°	804.4	8.3
60°-70°	330.8	3.4
70°-80°	87.4	0.9
80°-90°	14.8	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°	4529.4	46.8
0°-40°	6933.2	71.6
0°-60°	9247.0	95.5
0°-90°	9680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9680.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5747	5747	5747	5747	5747	
5°	5573	5738	5943	5738	5573	526
15°	5149	5590	6145	5590	5149	1456
25°	4824	5264	5688	5264	4824	2212
35°	3889	3998	3794	3998	3889	2437
45°	2739	1465	1695	1465	2739	2106
55°	1557	542	572	542	1557	1388
65°	620	166	152	166	620	643
75°	174	34	28	34	174	197
85°	36	0	3	0	36	40
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°	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7
2.5°	5687.8	5682.1	5679.4	5685.0	5687.8	5699.0	5696.2	5701.8	5701.8	5704.7	5710.2
5°	5572.8	5569.9	5572.8	5572.8	5584.0	5595.2	5592.4	5600.8	5606.4	5620.5	5626.0
7.5°	5466.2	5466.2	5463.3	5474.5	5480.1	5497.0	5494.1	5508.2	5516.6	5530.6	5550.2
10°	5356.7	5356.7	5359.4	5367.9	5370.8	5395.9	5395.9	5415.6	5426.8	5440.9	5466.2
12.5°	5250.1	5250.1	5266.9	5261.3	5272.5	5292.1	5300.5	5320.2	5337.0	5365.1	5390.4
15°	5149.0	5149.0	5154.7	5168.6	5177.1	5202.4	5216.3	5238.9	5258.5	5286.6	5323.1
17.5°	5062.0	5059.3	5062.0	5078.9	5095.8	5118.2	5129.4	5157.4	5177.1	5213.6	5247.3
20°	4975.1	4980.7	4980.7	4994.7	5005.9	5034.0	5045.2	5076.1	5098.5	5132.1	5171.5
22.5°	4899.3	4896.5	4896.5	4916.2	4924.6	4949.8	4961.0	4989.0	5014.3	5042.4	5078.9
25°	4823.5	4817.9	4829.2	4832.0	4837.5	4865.6	4874.0	4893.6	4918.9	4944.2	4980.7
27.5°	4711.3	4705.7	4708.5	4719.7	4728.1	4750.5	4756.2	4775.8	4795.5	4817.9	4848.8
30°	4495.2	4489.6	4486.9	4506.5	4514.9	4531.7	4540.1	4573.8	4579.4	4604.7	4627.1
32.5°	4209.0	4206.2	4211.9	4228.6	4237.0	4259.6	4270.8	4290.4	4304.4	4318.5	4340.9
35°	3889.2	3883.5	3889.2	3906.0	3906.0	3925.7	3934.1	3942.4	3939.6	3942.4	3936.9
37.5°	3591.8	3588.9	3591.8	3600.1	3591.8	3600.1	3591.8	3574.9	3544.1	3510.3	3476.6
40°	3339.2	3341.9	3325.2	3336.4	3305.4	3299.9	3269.1	3226.9	3165.2	3097.9	3002.5
42.5°	3069.8	3061.4	3050.2	3055.7	3030.5	3010.8	2960.3	2907.1	2828.4	2716.3	2601.1
45°	2738.7	2735.9	2730.3	2727.5	2710.6	2691.0	2648.8	2587.2	2500.2	2385.1	2247.6
47.5°	2416.0	2407.6	2407.6	2410.3	2390.7	2387.9	2354.2	2300.9	2225.2	2112.9	1969.8
50°	2107.3	2104.5	2110.1	2121.3	2107.3	2101.7	2079.3	2042.8	1975.5	1880.1	1745.3
52.5°	1829.5	1826.7	1832.4	1846.3	1840.7	1846.3	1823.9	1795.9	1750.9	1658.3	1540.5
55°	1557.4	1557.4	1557.4	1574.1	1574.1	1574.1	1562.9	1546.2	1504.0	1436.7	1327.3
57.5°	1273.9	1276.7	1293.6	1296.3	1293.6	1299.2	1296.3	1279.5	1251.5	1203.8	1119.6
60°	1035.4	1035.4	1043.9	1052.3	1049.4	1052.3	1052.3	1043.9	1015.8	976.5	909.2
62.5°	819.3	827.8	822.1	827.8	839.0	827.8	822.1	816.6	796.9	771.6	715.5
65°	620.1	625.8	625.8	628.5	622.9	625.8	614.6	606.1	594.9	566.9	530.4
67.5°	471.5	471.5	471.5	471.5	468.6	465.8	463.0	454.6	435.0	423.8	384.4
70°	362.0	345.1	345.1	345.1	345.1	348.0	339.6	328.4	322.7	303.1	275.0
72.5°	241.3	246.9	241.3	241.3	235.7	238.5	227.3	221.6	216.1	204.9	188.0
75°	173.9	160.0	165.5	168.4	160.0	165.5	154.3	143.1	143.1	134.7	126.2
77.5°	112.3	109.5	112.3	115.0	112.3	109.5	103.8	98.2	98.2	95.4	87.0
80°	81.4	78.5	78.5	78.5	75.8	78.5	73.0	73.0	67.3	64.6	58.9
82.5°	53.4	53.4	50.5	53.4	50.5	53.4	44.9	44.9	44.9	42.0	36.5
85°	36.5	30.8	30.8	33.7	28.1	33.7	30.8	28.1	25.3	25.3	22.4
87.5°	16.9	19.6	16.9	19.6	16.9	16.9	19.6	16.9	16.9	11.2	11.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7
2.5°	5718.6	5721.4	5721.4	5732.7	5738.3	5741.1	5741.1	5763.6	5755.1	5760.8	5766.3
5°	5637.3	5654.1	5659.7	5659.7	5690.6	5701.8	5713.0	5738.3	5741.1	5757.9	5777.5
7.5°	5558.7	5578.3	5589.6	5614.8	5634.4	5654.1	5687.8	5704.7	5721.4	5743.9	5769.1
10°	5482.9	5505.4	5527.8	5547.5	5578.3	5603.6	5626.0	5665.3	5685.0	5715.9	5749.5
12.5°	5410.0	5440.9	5460.5	5494.1	5527.8	5550.2	5584.0	5620.5	5651.3	5682.1	5721.4
15°	5345.5	5382.0	5404.4	5440.9	5477.4	5508.2	5544.7	5589.6	5612.0	5648.5	5685.0
17.5°	5275.2	5314.6	5342.7	5376.3	5421.2	5454.8	5485.8	5530.6	5558.7	5597.9	5640.1
20°	5202.4	5241.6	5275.2	5309.0	5353.9	5387.5	5424.0	5468.9	5499.8	5539.0	5572.8
22.5°	5115.4	5151.9	5188.3	5227.5	5272.5	5300.5	5342.7	5382.0	5415.6	5452.1	5485.8
25°	5003.1	5048.1	5076.1	5112.5	5149.0	5179.8	5224.8	5264.0	5292.1	5325.8	5356.7
27.5°	4871.2	4905.0	4927.4	4958.2	4994.7	5022.8	5056.4	5095.8	5123.8	5154.7	5177.1
30°	4646.7	4677.7	4697.3	4719.7	4756.2	4781.5	4809.6	4845.9	4865.6	4888.1	4907.7
32.5°	4352.1	4377.4	4388.6	4405.4	4430.7	4455.9	4478.4	4509.3	4517.7	4531.7	4531.7
35°	3925.7	3931.2	3928.4	3934.1	3945.3	3959.3	3978.9	3998.5	4009.7	4009.7	4001.4
37.5°	3426.1	3392.5	3356.0	3328.0	3319.5	3313.9	3325.2	3333.5	3344.8	3350.4	3336.4
40°	2907.1	2831.3	2749.9	2676.9	2626.4	2604.0	2595.6	2601.1	2601.1	2620.8	2620.8
42.5°	2460.9	2343.0	2222.4	2112.9	2039.9	1983.9	1958.6	1958.6	1961.4	1975.5	1983.9
45°	2090.5	1941.7	1801.4	1680.8	1579.8	1506.8	1473.2	1464.7	1462.0	1467.5	1487.1
47.5°	1807.1	1652.8	1506.8	1358.1	1251.5	1178.5	1147.7	1136.4	1125.2	1136.4	1139.3
50°	1585.4	1425.5	1271.2	1122.4	1010.1	945.6	906.3	889.4	886.7	886.7	892.3
52.5°	1383.3	1234.7	1080.4	928.8	810.9	749.2	712.7	704.3	693.1	704.3	704.3
55°	1192.5	1043.9	892.3	749.2	650.9	586.5	552.8	541.6	535.9	544.3	544.3
57.5°	985.0	858.6	718.4	589.3	491.1	446.2	420.9	406.9	404.0	409.7	404.0
60°	808.1	701.5	580.8	463.0	387.3	339.6	319.9	314.3	308.6	314.3	314.3
62.5°	639.7	550.0	451.7	362.0	297.4	263.8	241.3	241.3	238.5	238.5	241.3
65°	474.2	404.0	333.9	258.1	207.7	182.4	165.5	165.5	162.7	165.5	162.7
67.5°	345.1	297.4	241.3	188.0	148.8	134.7	123.5	115.0	120.7	115.0	112.3
70°	252.6	213.2	173.9	143.1	115.0	101.1	92.6	89.7	84.2	84.2	84.2
72.5°	168.4	143.1	117.8	92.6	75.8	61.7	58.9	53.4	47.7	50.5	56.1
75°	112.3	95.4	84.2	67.3	50.5	50.5	33.7	33.7	28.1	33.7	25.3
77.5°	78.5	64.6	50.5	42.0	33.7	30.8	22.4	22.4	19.6	19.6	19.6
80°	56.1	47.7	36.5	30.8	22.4	22.4	19.6	16.9	14.0	14.0	16.9
82.5°	33.7	25.3	25.3	22.4	14.0	11.2	8.4	11.2	5.7	5.7	5.7
85°	19.6	16.9	14.0	8.4	5.7	5.7	2.8	0.0	2.8	2.8	0.0
87.5°	11.2	5.7	5.7	2.8	0.0	2.8	2.8	0.0	0.0	0.0	5.7
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°	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7
2.5°	5780.4	5777.5	5783.2	5783.2	5800.1	5797.2	5805.6	5805.6	5800.1	5802.8	5814.0
5°	5800.1	5808.5	5825.2	5839.3	5864.5	5875.8	5889.8	5903.9	5906.7	5915.1	5923.5
7.5°	5800.1	5828.1	5847.8	5872.9	5906.7	5926.3	5957.1	5982.4	5993.6	6007.6	6024.5
10°	5788.8	5816.8	5853.3	5881.4	5923.5	5954.4	5985.2	6024.5	6041.3	6063.8	6086.3
12.5°	5766.3	5797.2	5836.5	5872.9	5920.6	5948.7	5988.0	6024.5	6049.8	6080.6	6105.9
15°	5732.7	5769.1	5805.6	5842.1	5892.6	5926.3	5962.8	6004.8	6030.1	6063.8	6086.3
17.5°	5679.4	5718.6	5752.4	5786.0	5833.7	5872.9	5906.7	5945.9	5971.2	5999.3	6030.1
20°	5614.8	5651.3	5687.8	5715.9	5763.6	5797.2	5833.7	5870.2	5889.8	5895.5	5943.2
22.5°	5533.5	5558.7	5586.7	5631.7	5659.7	5690.6	5724.3	5757.9	5777.5	5808.5	5825.2
25°	5398.7	5424.0	5454.8	5474.5	5508.2	5533.5	5567.1	5603.6	5614.8	5637.3	5654.1
27.5°	5210.8	5224.8	5238.9	5255.6	5275.2	5289.3	5309.0	5325.8	5337.0	5348.2	5359.4
30°	4913.3	4913.3	4913.3	4902.1	4910.5	4918.9	4921.7	4918.9	4918.9	4916.2	4916.2
32.5°	4520.5	4498.1	4472.8	4450.4	4441.9	4430.7	4425.1	4416.6	4402.7	4394.2	4397.0
35°	3990.1	3939.6	3908.8	3880.7	3858.3	3841.5	3833.0	3824.6	3821.8	3810.6	3799.3
37.5°	3328.0	3291.5	3269.1	3252.2	3232.6	3215.7	3218.5	3221.3	3229.7	3224.1	3226.9
40°	2626.4	2618.0	2626.4	2606.8	2601.1	2606.8	2620.8	2640.5	2651.7	2662.9	2682.6
42.5°	1997.9	2011.9	2031.6	2031.6	2039.9	2051.2	2068.0	2098.9	2115.7	2135.3	2157.8
45°	1504.0	1520.9	1546.2	1554.5	1560.1	1574.1	1593.9	1619.0	1630.3	1647.1	1666.7
47.5°	1158.9	1170.1	1184.1	1198.2	1212.1	1217.8	1237.4	1237.4	1251.5	1262.7	1268.3
50°	903.5	914.7	925.9	934.4	940.0	948.5	954.0	962.4	965.2	970.9	973.6
52.5°	707.1	721.2	721.2	726.7	735.1	743.6	740.8	743.6	746.3	746.3	754.8
55°	552.8	552.8	561.2	561.2	566.9	564.0	566.9	566.9	566.9	566.9	569.6
57.5°	412.4	415.3	423.8	418.1	415.3	420.9	415.3	420.9	418.1	423.8	415.3
60°	317.0	317.0	319.9	319.9	322.7	322.7	322.7	319.9	319.9	317.0	317.0
62.5°	238.5	241.3	244.2	241.3	241.3	241.3	238.5	238.5	235.7	232.8	232.8
65°	160.0	157.2	162.7	157.2	160.0	160.0	157.2	160.0	151.5	154.3	151.5
67.5°	115.0	112.3	109.5	112.3	109.5	106.6	106.6	109.5	112.3	103.8	103.8
70°	75.8	78.5	75.8	78.5	81.4	81.4	78.5	75.8	78.5	73.0	75.8
72.5°	47.7	47.7	47.7	47.7	47.7	50.5	50.5	50.5	44.9	44.9	42.0
75°	22.4	30.8	25.3	22.4	30.8	30.8	28.1	28.1	25.3	25.3	25.3
77.5°	22.4	16.9	16.9	16.9	16.9	16.9	16.9	16.9	14.0	16.9	14.0
80°	11.2	11.2	11.2	8.4	11.2	11.2	14.0	11.2	11.2	8.4	14.0
82.5°	5.7	5.7	5.7	0.0	2.8	5.7	5.7	2.8	5.7	5.7	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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





TEST NUMBER: P248771

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7
2.5°	5811.3	5808.5	5811.3	5814.0	5811.3	5808.5	5811.3	5814.0	5802.8	5800.1	5805.6
5°	5934.7	5934.7	5940.3	5943.2	5940.3	5934.7	5934.7	5923.5	5915.1	5906.7	5903.9
7.5°	6041.3	6047.0	6052.5	6055.3	6052.5	6047.0	6041.3	6024.5	6007.6	5993.6	5982.4
10°	6105.9	6114.3	6125.5	6131.1	6125.5	6114.3	6105.9	6086.3	6063.8	6041.3	6024.5
12.5°	6134.0	6142.4	6156.4	6153.6	6156.4	6142.4	6134.0	6105.9	6080.6	6049.8	6024.5
15°	6114.3	6125.5	6139.5	6145.2	6139.5	6125.5	6114.3	6086.3	6063.8	6030.1	6004.8
17.5°	6052.5	6069.4	6077.8	6086.3	6077.8	6069.4	6052.5	6030.1	5999.3	5971.2	5945.9
20°	5968.3	5979.7	5990.9	5993.6	5990.9	5979.7	5968.3	5943.2	5895.5	5889.8	5870.2
22.5°	5847.8	5856.2	5881.4	5872.9	5881.4	5856.2	5847.8	5825.2	5808.5	5777.5	5757.9
25°	5673.7	5682.1	5685.0	5687.8	5685.0	5682.1	5673.7	5654.1	5637.3	5614.8	5603.6
27.5°	5373.5	5373.5	5379.1	5382.0	5379.1	5373.5	5373.5	5359.4	5348.2	5337.0	5325.8
30°	4918.9	4918.9	4918.9	4933.0	4918.9	4918.9	4918.9	4916.2	4916.2	4918.9	4918.9
32.5°	4394.2	4388.6	4383.0	4388.6	4383.0	4388.6	4394.2	4397.0	4394.2	4402.7	4416.6
35°	3799.3	3796.5	3805.0	3793.8	3805.0	3796.5	3799.3	3799.3	3810.6	3821.8	3824.6
37.5°	3229.7	3224.1	3235.3	3224.1	3235.3	3224.1	3229.7	3226.9	3224.1	3229.7	3221.3
40°	2688.2	2693.8	2693.8	2716.3	2693.8	2693.8	2688.2	2682.6	2662.9	2651.7	2640.5
42.5°	2169.0	2185.9	2180.3	2197.1	2180.3	2185.9	2169.0	2157.8	2135.3	2115.7	2098.9
45°	1678.0	1689.3	1689.3	1694.8	1689.3	1689.3	1678.0	1666.7	1647.1	1630.3	1619.0
47.5°	1287.9	1287.9	1287.9	1290.8	1287.9	1287.9	1287.9	1268.3	1262.7	1251.5	1237.4
50°	979.3	982.1	985.0	987.7	985.0	982.1	979.3	973.6	970.9	965.2	962.4
52.5°	752.0	754.8	749.2	754.8	749.2	754.8	752.0	754.8	746.3	746.3	743.6
55°	569.6	566.9	569.6	572.4	569.6	566.9	569.6	569.6	566.9	566.9	566.9
57.5°	418.1	412.4	412.4	412.4	412.4	412.4	418.1	415.3	423.8	418.1	420.9
60°	311.5	314.3	314.3	317.0	314.3	314.3	311.5	317.0	317.0	319.9	319.9
62.5°	230.1	238.5	232.8	238.5	232.8	238.5	230.1	232.8	232.8	235.7	238.5
65°	148.8	148.8	148.8	151.5	148.8	148.8	148.8	151.5	154.3	151.5	160.0
67.5°	101.1	103.8	109.5	106.6	109.5	103.8	101.1	103.8	103.8	112.3	109.5
70°	81.4	73.0	73.0	81.4	73.0	73.0	81.4	75.8	73.0	78.5	75.8
72.5°	47.7	42.0	47.7	47.7	47.7	42.0	47.7	42.0	44.9	44.9	50.5
75°	25.3	22.4	19.6	28.1	19.6	22.4	25.3	25.3	25.3	25.3	28.1
77.5°	16.9	14.0	19.6	19.6	19.6	14.0	16.9	14.0	16.9	14.0	16.9
80°	8.4	11.2	8.4	14.0	8.4	11.2	8.4	14.0	8.4	11.2	11.2
82.5°	2.8	5.7	5.7	5.7	5.7	5.7	2.8	2.8	5.7	5.7	2.8
85°	0.0	5.7	2.8	2.8	2.8	5.7	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.0	0.0	2.8	0.0	0.0	2.8	0.0	0.0	0.0	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



TEST NUMBER: P248771

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7
2.5°	5805.6	5797.2	5800.1	5783.2	5783.2	5777.5	5780.4	5766.3	5760.8	5755.1	5763.6
5°	5889.8	5875.8	5864.5	5839.3	5825.2	5808.5	5800.1	5777.5	5757.9	5741.1	5738.3
7.5°	5957.1	5926.3	5906.7	5872.9	5847.8	5828.1	5800.1	5769.1	5743.9	5721.4	5704.7
10°	5985.2	5954.4	5923.5	5881.4	5853.3	5816.8	5788.8	5749.5	5715.9	5685.0	5665.3
12.5°	5988.0	5948.7	5920.6	5872.9	5836.5	5797.2	5766.3	5721.4	5682.1	5651.3	5620.5
15°	5962.8	5926.3	5892.6	5842.1	5805.6	5769.1	5732.7	5685.0	5648.5	5612.0	5589.6
17.5°	5906.7	5872.9	5833.7	5786.0	5752.4	5718.6	5679.4	5640.1	5597.9	5558.7	5530.6
20°	5833.7	5797.2	5763.6	5715.9	5687.8	5651.3	5614.8	5572.8	5539.0	5499.8	5468.9
22.5°	5724.3	5690.6	5659.7	5631.7	5586.7	5558.7	5533.5	5485.8	5452.1	5415.6	5382.0
25°	5567.1	5533.5	5508.2	5474.5	5454.8	5424.0	5398.7	5356.7	5325.8	5292.1	5264.0
27.5°	5309.0	5289.3	5275.2	5255.6	5238.9	5224.8	5210.8	5177.1	5154.7	5123.8	5095.8
30°	4921.7	4918.9	4910.5	4902.1	4913.3	4913.3	4913.3	4907.7	4888.1	4865.6	4845.9
32.5°	4425.1	4430.7	4441.9	4450.4	4472.8	4498.1	4520.5	4531.7	4531.7	4517.7	4509.3
35°	3833.0	3841.5	3858.3	3880.7	3908.8	3939.6	3990.1	4001.4	4009.7	4009.7	3998.5
37.5°	3218.5	3215.7	3232.6	3252.2	3269.1	3291.5	3328.0	3336.4	3350.4	3344.8	3333.5
40°	2620.8	2606.8	2601.1	2606.8	2626.4	2618.0	2626.4	2620.8	2620.8	2601.1	2601.1
42.5°	2068.0	2051.2	2039.9	2031.6	2031.6	2011.9	1997.9	1983.9	1975.5	1961.4	1958.6
45°	1593.9	1574.1	1560.1	1554.5	1546.2	1520.9	1504.0	1487.1	1467.5	1462.0	1464.7
47.5°	1237.4	1217.8	1212.1	1198.2	1184.1	1170.1	1158.9	1139.3	1136.4	1125.2	1136.4
50°	954.0	948.5	940.0	934.4	925.9	914.7	903.5	892.3	886.7	886.7	889.4
52.5°	740.8	743.6	735.1	726.7	721.2	721.2	707.1	704.3	704.3	693.1	704.3
55°	566.9	564.0	566.9	561.2	561.2	552.8	552.8	544.3	544.3	535.9	541.6
57.5°	415.3	420.9	415.3	418.1	423.8	415.3	412.4	404.0	409.7	404.0	406.9
60°	322.7	322.7	322.7	319.9	319.9	317.0	317.0	314.3	314.3	308.6	314.3
62.5°	238.5	241.3	241.3	241.3	244.2	241.3	238.5	241.3	238.5	238.5	241.3
65°	157.2	160.0	160.0	157.2	162.7	157.2	160.0	162.7	165.5	162.7	165.5
67.5°	106.6	106.6	109.5	112.3	109.5	112.3	115.0	112.3	115.0	120.7	115.0
70°	78.5	81.4	81.4	78.5	75.8	78.5	75.8	84.2	84.2	84.2	89.7
72.5°	50.5	50.5	47.7	47.7	47.7	47.7	47.7	56.1	50.5	47.7	53.4
75°	28.1	30.8	30.8	22.4	25.3	30.8	22.4	25.3	33.7	28.1	33.7
77.5°	16.9	16.9	16.9	16.9	16.9	16.9	22.4	19.6	19.6	19.6	22.4
80°	14.0	11.2	11.2	8.4	11.2	11.2	11.2	16.9	14.0	14.0	16.9
82.5°	5.7	5.7	2.8	0.0	5.7	5.7	5.7	5.7	5.7	5.7	11.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	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



TEST NUMBER: P248771

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7
2.5°	5741.1	5741.1	5738.3	5732.7	5721.4	5721.4	5718.6	5710.2	5704.7	5701.8	5701.8
5°	5713.0	5701.8	5690.6	5659.7	5659.7	5654.1	5637.3	5626.0	5620.5	5606.4	5600.8
7.5°	5687.8	5654.1	5634.4	5614.8	5589.6	5578.3	5558.7	5550.2	5530.6	5516.6	5508.2
10°	5626.0	5603.6	5578.3	5547.5	5527.8	5505.4	5482.9	5466.2	5440.9	5426.8	5415.6
12.5°	5584.0	5550.2	5527.8	5494.1	5460.5	5440.9	5410.0	5390.4	5365.1	5337.0	5320.2
15°	5544.7	5508.2	5477.4	5440.9	5404.4	5382.0	5345.5	5323.1	5286.6	5258.5	5238.9
17.5°	5485.8	5454.8	5421.2	5376.3	5342.7	5314.6	5275.2	5247.3	5213.6	5177.1	5157.4
20°	5424.0	5387.5	5353.9	5309.0	5275.2	5241.6	5202.4	5171.5	5132.1	5098.5	5076.1
22.5°	5342.7	5300.5	5272.5	5227.5	5188.3	5151.9	5115.4	5078.9	5042.4	5014.3	4989.0
25°	5224.8	5179.8	5149.0	5112.5	5076.1	5048.1	5003.1	4980.7	4944.2	4918.9	4893.6
27.5°	5056.4	5022.8	4994.7	4958.2	4927.4	4905.0	4871.2	4848.8	4817.9	4795.5	4775.8
30°	4809.6	4781.5	4756.2	4719.7	4697.3	4677.7	4646.7	4627.1	4604.7	4579.4	4573.8
32.5°	4478.4	4455.9	4430.7	4405.4	4388.6	4377.4	4352.1	4340.9	4318.5	4304.4	4290.4
35°	3978.9	3959.3	3945.3	3934.1	3928.4	3931.2	3925.7	3936.9	3942.4	3939.6	3942.4
37.5°	3325.2	3313.9	3319.5	3328.0	3356.0	3392.5	3426.1	3476.6	3510.3	3544.1	3574.9
40°	2595.6	2604.0	2626.4	2676.9	2749.9	2831.3	2907.1	3002.5	3097.9	3165.2	3226.9
42.5°	1958.6	1983.9	2039.9	2112.9	2222.4	2343.0	2460.9	2601.1	2716.3	2828.4	2907.1
45°	1473.2	1506.8	1579.8	1680.8	1801.4	1941.7	2090.5	2247.6	2385.1	2500.2	2587.2
47.5°	1147.7	1178.5	1251.5	1358.1	1506.8	1652.8	1807.1	1969.8	2112.9	2225.2	2300.9
50°	906.3	945.6	1010.1	1122.4	1271.2	1425.5	1585.4	1745.3	1880.1	1975.5	2042.8
52.5°	712.7	749.2	810.9	928.8	1080.4	1234.7	1383.3	1540.5	1658.3	1750.9	1795.9
55°	552.8	586.5	650.9	749.2	892.3	1043.9	1192.5	1327.3	1436.7	1504.0	1546.2
57.5°	420.9	446.2	491.1	589.3	718.4	858.6	985.0	1119.6	1203.8	1251.5	1279.5
60°	319.9	339.6	387.3	463.0	580.8	701.5	808.1	909.2	976.5	1015.8	1043.9
62.5°	241.3	263.8	297.4	362.0	451.7	550.0	639.7	715.5	771.6	796.9	816.6
65°	165.5	182.4	207.7	258.1	333.9	404.0	474.2	530.4	566.9	594.9	606.1
67.5°	123.5	134.7	148.8	188.0	241.3	297.4	345.1	384.4	423.8	435.0	454.6
70°	92.6	101.1	115.0	143.1	173.9	213.2	252.6	275.0	303.1	322.7	328.4
72.5°	58.9	61.7	75.8	92.6	117.8	143.1	168.4	188.0	204.9	216.1	221.6
75°	33.7	50.5	50.5	67.3	84.2	95.4	112.3	126.2	134.7	143.1	143.1
77.5°	22.4	30.8	33.7	42.0	50.5	64.6	78.5	87.0	95.4	98.2	98.2
80°	19.6	22.4	22.4	30.8	36.5	47.7	56.1	58.9	64.6	67.3	73.0
82.5°	8.4	11.2	14.0	22.4	25.3	25.3	33.7	36.5	42.0	44.9	44.9
85°	2.8	5.7	5.7	8.4	14.0	16.9	19.6	22.4	25.3	25.3	28.1
87.5°	2.8	2.8	0.0	2.8	5.7	5.7	11.2	11.2	11.2	16.9	16.9
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: P248771

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7	5746.7
2.5°	5696.2	5699.0	5687.8	5685.0	5679.4	5682.1	5687.8
5°	5592.4	5595.2	5584.0	5572.8	5572.8	5569.9	5572.8
7.5°	5494.1	5497.0	5480.1	5474.5	5463.3	5466.2	5466.2
10°	5395.9	5395.9	5370.8	5367.9	5359.4	5356.7	5356.7
12.5°	5300.5	5292.1	5272.5	5261.3	5266.9	5250.1	5250.1
15°	5216.3	5202.4	5177.1	5168.6	5154.7	5149.0	5149.0
17.5°	5129.4	5118.2	5095.8	5078.9	5062.0	5059.3	5062.0
20°	5045.2	5034.0	5005.9	4994.7	4980.7	4980.7	4975.1
22.5°	4961.0	4949.8	4924.6	4916.2	4896.5	4896.5	4899.3
25°	4874.0	4865.6	4837.5	4832.0	4829.2	4817.9	4823.5
27.5°	4756.2	4750.5	4728.1	4719.7	4708.5	4705.7	4711.3
30°	4540.1	4531.7	4514.9	4506.5	4486.9	4489.6	4495.2
32.5°	4270.8	4259.6	4237.0	4228.6	4211.9	4206.2	4209.0
35°	3934.1	3925.7	3906.0	3906.0	3889.2	3883.5	3889.2
37.5°	3591.8	3600.1	3591.8	3600.1	3591.8	3588.9	3591.8
40°	3269.1	3299.9	3305.4	3336.4	3325.2	3341.9	3339.2
42.5°	2960.3	3010.8	3030.5	3055.7	3050.2	3061.4	3069.8
45°	2648.8	2691.0	2710.6	2727.5	2730.3	2735.9	2738.7
47.5°	2354.2	2387.9	2390.7	2410.3	2407.6	2407.6	2416.0
50°	2079.3	2101.7	2107.3	2121.3	2110.1	2104.5	2107.3
52.5°	1823.9	1846.3	1840.7	1846.3	1832.4	1826.7	1829.5
55°	1562.9	1574.1	1574.1	1574.1	1557.4	1557.4	1557.4
57.5°	1296.3	1299.2	1293.6	1296.3	1293.6	1276.7	1273.9
60°	1052.3	1052.3	1049.4	1052.3	1043.9	1035.4	1035.4
62.5°	822.1	827.8	839.0	827.8	822.1	827.8	819.3
65°	614.6	625.8	622.9	628.5	625.8	625.8	620.1
67.5°	463.0	465.8	468.6	471.5	471.5	471.5	471.5
70°	339.6	348.0	345.1	345.1	345.1	345.1	362.0
72.5°	227.3	238.5	235.7	241.3	241.3	246.9	241.3
75°	154.3	165.5	160.0	168.4	165.5	160.0	173.9
77.5°	103.8	109.5	112.3	115.0	112.3	109.5	112.3
80°	73.0	78.5	75.8	78.5	78.5	78.5	81.4
82.5°	44.9	53.4	50.5	53.4	50.5	53.4	53.4
85°	30.8	33.7	28.1	33.7	30.8	30.8	36.5
87.5°	19.6	16.9	16.9	19.6	16.9	19.6	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)