

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: P248673

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248673  
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: LSR8B120D010 EC8B120835 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12223.0 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

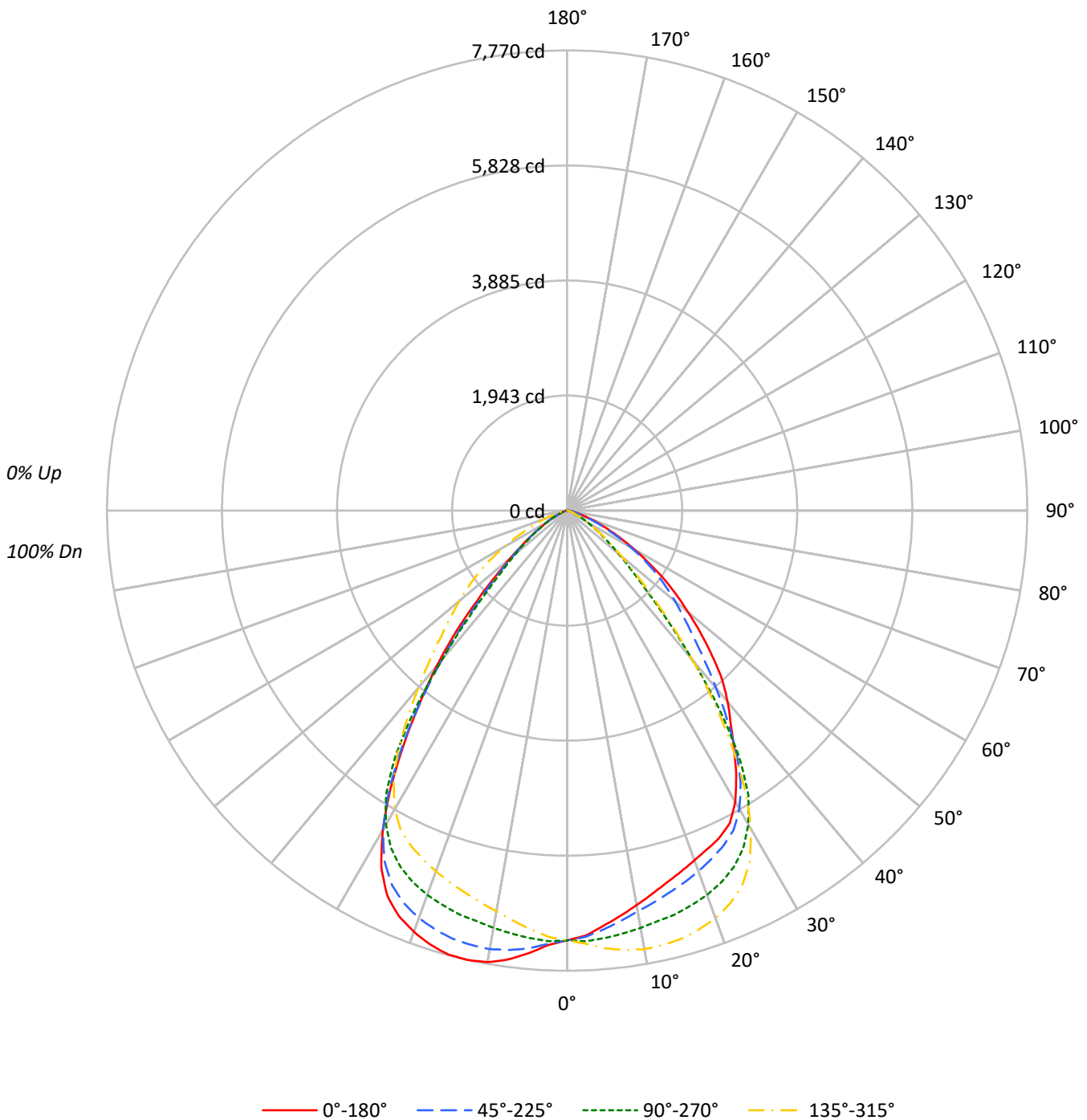
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	223761	223761	223761	223761
5°	217818	224287	232295	224287
10°	211791	223994	242411	223994
15°	207561	225324	247718	225324
20°	206149	226613	248353	226613
25°	207231	226155	244361	226155
30°	202107	217877	221794	217877
35°	184867	190066	180331	190066
40°	169727	132214	138067	132214
45°	150809	80655	93328	80655
50°	127646	53878	59832	53878
55°	105722	36762	38859	36762
60°	80637	24472	24688	24472
65°	57132	15250	13958	15250
70°	41212	10215	9268	10215
75°	26164	5075	4218	5075
80°	18255	3782	3125	3782
85°	16311	0	1238	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.7	5.7
10°-20°	2000.1	16.4
20°-30°	3028.5	24.8
30°-40°	3035.3	24.8
40°-50°	1906.0	15.6
50°-60°	1015.7	8.3
60°-70°	417.7	3.4
70°-80°	110.3	0.9
80°-90°	18.6	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°	5719.3	46.8
0°-40°	8754.6	71.6
0°-60°	11676.3	95.5
0°-90°	12223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12223.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7256	7256	7256	7256	7256	
5°	7037	7246	7504	7246	7037	664
15°	6502	7058	7760	7058	6502	1839
25°	6091	6647	7182	6647	6091	2793
35°	4911	5049	4790	5049	4911	3077
45°	3458	1850	2140	1850	3458	2660
55°	1966	684	723	684	1966	1753
65°	783	209	191	209	783	812
75°	220	43	35	43	220	249
85°	46	0	4	0	46	51
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°	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4
2.5°	7182.0	7174.9	7171.4	7178.5	7182.0	7196.2	7192.7	7199.7	7199.7	7203.3	7210.3
5°	7036.8	7033.1	7036.8	7036.8	7050.9	7065.1	7061.6	7072.2	7079.2	7097.0	7104.0
7.5°	6902.2	6902.2	6898.5	6912.7	6919.8	6941.1	6937.5	6955.2	6965.9	6983.5	7008.3
10°	6763.9	6763.9	6767.4	6778.1	6781.7	6813.5	6813.5	6838.3	6852.4	6870.2	6902.2
12.5°	6629.3	6629.3	6650.6	6643.4	6657.6	6682.4	6693.0	6717.8	6739.1	6774.6	6806.5
15°	6501.7	6501.7	6508.8	6526.5	6537.1	6569.1	6586.7	6615.2	6639.9	6675.4	6721.5
17.5°	6391.9	6388.4	6391.9	6413.2	6434.5	6462.7	6476.9	6512.3	6537.1	6583.2	6625.8
20°	6282.1	6289.2	6289.2	6306.8	6321.0	6356.4	6370.6	6409.7	6438.0	6480.4	6530.1
22.5°	6186.4	6182.9	6182.9	6207.7	6218.3	6250.1	6264.3	6299.7	6331.6	6367.1	6413.2
25°	6090.7	6083.6	6097.9	6101.4	6108.4	6143.8	6154.4	6179.2	6211.2	6243.1	6289.2
27.5°	5949.0	5942.0	5945.5	5959.6	5970.2	5998.5	6005.7	6030.5	6055.3	6083.6	6122.6
30°	5676.1	5669.1	5665.6	5690.4	5701.0	5722.2	5732.8	5775.4	5782.4	5814.3	5842.6
32.5°	5314.7	5311.2	5318.3	5339.5	5350.1	5378.6	5392.7	5417.5	5435.2	5453.0	5481.2
35°	4910.9	4903.7	4910.9	4932.2	4932.2	4957.0	4967.6	4978.1	4974.6	4978.1	4971.1
37.5°	4535.3	4531.7	4535.3	4545.8	4535.3	4545.8	4535.3	4514.0	4475.1	4432.5	4389.9
40°	4216.4	4219.9	4198.7	4212.9	4173.8	4166.8	4127.9	4074.6	3996.7	3911.7	3791.3
42.5°	3876.3	3865.6	3851.5	3858.5	3826.7	3801.8	3738.0	3670.8	3571.5	3429.9	3284.5
45°	3458.2	3454.7	3447.5	3444.0	3422.7	3397.9	3344.7	3266.8	3157.0	3011.7	2838.0
47.5°	3050.7	3040.0	3040.0	3043.5	3018.7	3015.2	2972.7	2905.4	2809.8	2668.0	2487.3
50°	2660.8	2657.3	2664.5	2678.6	2660.8	2653.8	2625.6	2579.5	2494.4	2374.0	2203.8
52.5°	2310.1	2306.6	2313.7	2331.4	2324.2	2331.4	2303.1	2267.7	2210.9	2094.0	1945.2
55°	1966.5	1966.5	1966.5	1987.7	1987.7	1987.7	1973.5	1952.4	1899.1	1814.1	1676.0
57.5°	1608.6	1612.1	1633.4	1636.9	1633.4	1640.6	1636.9	1615.6	1580.3	1520.1	1413.8
60°	1307.5	1307.5	1318.1	1328.7	1325.1	1328.7	1328.7	1318.1	1282.7	1233.1	1148.1
62.5°	1034.6	1045.2	1038.1	1045.2	1059.4	1045.2	1038.1	1031.1	1006.3	974.4	903.5
65°	783.0	790.2	790.2	793.7	786.5	790.2	776.0	765.4	751.2	715.8	669.7
67.5°	595.3	595.3	595.3	595.3	591.7	588.2	584.7	574.0	549.2	535.1	485.4
70°	457.1	435.8	435.8	435.8	435.8	439.4	428.8	414.6	407.5	382.7	347.2
72.5°	304.7	311.8	304.7	304.7	297.7	301.2	287.0	279.9	272.9	258.7	237.4
75°	219.6	202.0	209.0	212.6	202.0	209.0	194.8	180.7	180.7	170.0	159.4
77.5°	141.8	138.3	141.8	145.3	141.8	138.3	131.1	124.0	124.0	120.5	109.8
80°	102.8	99.2	99.2	99.2	95.7	99.2	92.2	92.2	85.0	81.5	74.4
82.5°	67.4	67.4	63.7	67.4	63.7	67.4	56.7	56.7	56.7	53.1	46.1
85°	46.1	38.9	38.9	42.6	35.4	42.6	38.9	35.4	31.9	31.9	28.3
87.5°	21.3	24.8	21.3	24.8	21.3	21.3	24.8	21.3	21.3	14.1	14.1
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°	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4
2.5°	7221.0	7224.5	7224.5	7238.8	7245.8	7249.3	7249.3	7277.7	7267.1	7274.2	7281.2
5°	7118.3	7139.4	7146.6	7146.6	7185.5	7199.7	7213.8	7245.8	7249.3	7270.6	7295.3
7.5°	7019.0	7043.8	7058.1	7089.9	7114.7	7139.4	7182.0	7203.3	7224.5	7252.9	7284.7
10°	6923.3	6951.7	6980.0	7004.8	7043.8	7075.7	7104.0	7153.6	7178.5	7217.5	7259.9
12.5°	6831.3	6870.2	6895.0	6937.5	6980.0	7008.3	7050.9	7097.0	7135.9	7174.9	7224.5
15°	6749.8	6795.8	6824.1	6870.2	6916.3	6955.2	7001.3	7058.1	7086.4	7132.4	7178.5
17.5°	6661.1	6710.8	6746.3	6788.7	6845.4	6887.9	6927.0	6983.5	7019.0	7068.6	7121.8
20°	6569.1	6618.7	6661.1	6703.7	6760.4	6802.8	6848.9	6905.7	6944.6	6994.2	7036.8
22.5°	6459.2	6505.3	6551.3	6600.9	6657.6	6693.0	6746.3	6795.8	6838.3	6884.4	6927.0
25°	6317.5	6374.2	6409.7	6455.6	6501.7	6540.6	6597.4	6646.9	6682.4	6725.0	6763.9
27.5°	6150.9	6193.5	6221.8	6260.8	6306.8	6342.3	6384.7	6434.5	6469.9	6508.8	6537.1
30°	5867.4	5906.5	5931.3	5959.6	6005.7	6037.6	6073.1	6119.0	6143.8	6172.2	6197.0
32.5°	5495.4	5527.3	5541.5	5562.8	5594.7	5626.5	5654.9	5693.9	5704.5	5722.2	5722.2
35°	4957.0	4964.0	4960.5	4967.6	4981.7	4999.4	5024.2	5049.0	5063.1	5063.1	5052.6
37.5°	4326.2	4283.8	4237.7	4202.2	4191.6	4184.4	4198.7	4209.2	4223.5	4230.5	4212.9
40°	3670.8	3575.1	3472.3	3380.1	3316.4	3288.1	3277.5	3284.5	3284.5	3309.3	3309.3
42.5°	3107.4	2958.5	2806.3	2668.0	2575.8	2505.1	2473.2	2473.2	2476.7	2494.4	2505.1
45°	2639.7	2451.9	2274.7	2122.4	1994.8	1902.6	1860.2	1849.5	1846.0	1853.0	1877.8
47.5°	2281.8	2087.0	1902.6	1714.9	1580.3	1488.1	1449.2	1434.9	1420.8	1434.9	1438.6
50°	2001.9	1800.0	1605.1	1417.3	1275.5	1194.0	1144.4	1123.1	1119.6	1119.6	1126.8
52.5°	1746.7	1559.0	1364.2	1172.8	1023.9	946.1	900.0	889.3	875.2	889.3	889.3
55°	1505.8	1318.1	1126.8	946.1	822.0	740.6	698.0	683.8	676.7	687.3	687.3
57.5°	1243.7	1084.2	907.1	744.1	620.1	563.4	531.4	513.8	510.1	517.3	510.1
60°	1020.4	885.8	733.4	584.7	489.0	428.8	404.0	396.8	389.7	396.8	396.8
62.5°	807.8	694.5	570.4	457.1	375.5	333.1	304.7	304.7	301.2	301.2	304.7
65°	598.8	510.1	421.6	326.0	262.2	230.3	209.0	209.0	205.5	209.0	205.5
67.5°	435.8	375.5	304.7	237.4	187.8	170.0	155.9	145.3	152.4	145.3	141.8
70°	319.0	269.2	219.6	180.7	145.3	127.6	117.0	113.3	106.3	106.3	106.3
72.5°	212.6	180.7	148.8	117.0	95.7	77.9	74.4	67.4	60.2	63.7	70.9
75°	141.8	120.5	106.3	85.0	63.7	63.7	42.6	42.6	35.4	42.6	31.9
77.5°	99.2	81.5	63.7	53.1	42.6	38.9	28.3	28.3	24.8	24.8	24.8
80°	70.9	60.2	46.1	38.9	28.3	28.3	24.8	21.3	17.6	17.6	21.3
82.5°	42.6	31.9	31.9	28.3	17.6	14.1	10.6	14.1	7.1	7.1	7.1
85°	24.8	21.3	17.6	10.6	7.1	7.1	3.5	0.0	3.5	3.5	0.0
87.5°	14.1	7.1	7.1	3.5	0.0	3.5	3.5	0.0	0.0	0.0	7.1
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°	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4
2.5°	7299.0	7295.3	7302.5	7302.5	7323.8	7320.1	7330.8	7330.8	7323.8	7327.3	7341.4
5°	7323.8	7334.4	7355.6	7373.4	7405.2	7419.5	7437.1	7454.9	7458.4	7469.0	7479.7
7.5°	7323.8	7359.2	7384.0	7415.8	7458.4	7483.2	7522.1	7554.1	7568.2	7585.9	7607.2
10°	7309.5	7344.9	7391.0	7426.5	7479.7	7518.6	7557.6	7607.2	7628.4	7656.7	7685.2
12.5°	7281.2	7320.1	7369.7	7415.8	7476.0	7511.5	7561.1	7607.2	7639.1	7678.0	7710.0
15°	7238.8	7284.7	7330.8	7376.9	7440.6	7483.2	7529.3	7582.4	7614.3	7656.7	7685.2
17.5°	7171.4	7221.0	7263.6	7306.0	7366.2	7415.8	7458.4	7508.0	7539.9	7575.4	7614.3
20°	7089.9	7135.9	7182.0	7217.5	7277.7	7320.1	7366.2	7412.3	7437.1	7444.2	7504.5
22.5°	6987.2	7019.0	7054.4	7111.2	7146.6	7185.5	7228.1	7270.6	7295.3	7334.4	7355.6
25°	6817.0	6848.9	6887.9	6912.7	6955.2	6987.2	7029.6	7075.7	7089.9	7118.3	7139.4
27.5°	6579.7	6597.4	6615.2	6636.3	6661.1	6678.9	6703.7	6725.0	6739.1	6753.3	6767.4
30°	6204.0	6204.0	6204.0	6189.9	6200.5	6211.2	6214.7	6211.2	6211.2	6207.7	6207.7
32.5°	5708.0	5679.7	5647.8	5619.5	5608.9	5594.7	5587.6	5576.9	5559.3	5548.6	5552.1
35°	5038.3	4974.6	4935.7	4900.2	4871.9	4850.6	4840.0	4829.3	4825.8	4811.7	4797.4
37.5°	4202.2	4156.1	4127.9	4106.6	4081.8	4060.5	4064.0	4067.6	4078.1	4071.1	4074.6
40°	3316.4	3305.8	3316.4	3291.6	3284.5	3291.6	3309.3	3334.2	3348.3	3362.5	3387.3
42.5°	2522.7	2540.4	2565.3	2565.3	2575.8	2590.1	2611.3	2650.3	2671.5	2696.3	2724.7
45°	1899.1	1920.4	1952.4	1962.9	1970.0	1987.7	2012.6	2044.4	2058.5	2079.8	2104.6
47.5°	1463.4	1477.5	1495.2	1512.9	1530.6	1537.7	1562.5	1562.5	1580.3	1594.5	1601.5
50°	1140.9	1155.1	1169.2	1179.8	1187.0	1197.6	1204.6	1215.3	1218.8	1225.9	1229.4
52.5°	892.8	910.6	910.6	917.6	928.3	938.9	935.4	938.9	942.4	942.4	953.1
55°	698.0	698.0	708.6	708.6	715.8	712.1	715.8	715.8	715.8	715.8	719.3
57.5°	520.8	524.4	535.1	527.9	524.4	531.4	524.4	531.4	527.9	535.1	524.4
60°	400.3	400.3	404.0	404.0	407.5	407.5	407.5	404.0	404.0	400.3	400.3
62.5°	301.2	304.7	308.3	304.7	304.7	304.7	301.2	301.2	297.7	294.0	294.0
65°	202.0	198.5	205.5	198.5	202.0	202.0	198.5	202.0	191.3	194.8	191.3
67.5°	145.3	141.8	138.3	141.8	138.3	134.6	134.6	138.3	141.8	131.1	131.1
70°	95.7	99.2	95.7	99.2	102.8	102.8	99.2	95.7	99.2	92.2	95.7
72.5°	60.2	60.2	60.2	60.2	60.2	63.7	63.7	63.7	56.7	56.7	53.1
75°	28.3	38.9	31.9	28.3	38.9	38.9	35.4	35.4	31.9	31.9	31.9
77.5°	28.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	17.6	21.3	17.6
80°	14.1	14.1	14.1	10.6	14.1	14.1	17.6	14.1	14.1	10.6	17.6
82.5°	7.1	7.1	7.1	0.0	3.5	7.1	7.1	3.5	7.1	7.1	3.5
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: P248673

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4
2.5°	7337.9	7334.4	7337.9	7341.4	7337.9	7334.4	7337.9	7341.4	7327.3	7323.8	7330.8
5°	7493.8	7493.8	7500.8	7504.5	7500.8	7493.8	7493.8	7479.7	7469.0	7458.4	7454.9
7.5°	7628.4	7635.6	7642.6	7646.1	7642.6	7635.6	7628.4	7607.2	7585.9	7568.2	7554.1
10°	7710.0	7720.6	7734.8	7741.8	7734.8	7720.6	7710.0	7685.2	7656.7	7628.4	7607.2
12.5°	7745.4	7756.1	7773.7	7770.2	7773.7	7756.1	7745.4	7710.0	7678.0	7639.1	7607.2
15°	7720.6	7734.8	7752.4	7759.6	7752.4	7734.8	7720.6	7685.2	7656.7	7614.3	7582.4
17.5°	7642.6	7663.9	7674.5	7685.2	7674.5	7663.9	7642.6	7614.3	7575.4	7539.9	7508.0
20°	7536.3	7550.6	7564.7	7568.2	7564.7	7550.6	7536.3	7504.5	7444.2	7437.1	7412.3
22.5°	7384.0	7394.7	7426.5	7415.8	7426.5	7394.7	7384.0	7355.6	7334.4	7295.3	7270.6
25°	7164.2	7174.9	7178.5	7182.0	7178.5	7174.9	7164.2	7139.4	7118.3	7089.9	7075.7
27.5°	6785.2	6785.2	6792.2	6795.8	6792.2	6785.2	6785.2	6767.4	6753.3	6739.1	6725.0
30°	6211.2	6211.2	6211.2	6229.0	6211.2	6211.2	6211.2	6207.7	6207.7	6211.2	6211.2
32.5°	5548.6	5541.5	5534.5	5541.5	5534.5	5541.5	5548.6	5552.1	5548.6	5559.3	5576.9
35°	4797.4	4793.9	4804.5	4790.4	4804.5	4793.9	4797.4	4797.4	4811.7	4825.8	4829.3
37.5°	4078.1	4071.1	4085.3	4071.1	4085.3	4071.1	4078.1	4074.6	4071.1	4078.1	4067.6
40°	3394.4	3401.4	3401.4	3429.9	3401.4	3401.4	3394.4	3387.3	3362.5	3348.3	3334.2
42.5°	2738.9	2760.2	2753.0	2774.3	2753.0	2760.2	2738.9	2724.7	2696.3	2671.5	2650.3
45°	2118.8	2133.1	2133.1	2140.1	2133.1	2133.1	2118.8	2104.6	2079.8	2058.5	2044.4
47.5°	1626.3	1626.3	1626.3	1629.9	1626.3	1626.3	1626.3	1601.5	1594.5	1580.3	1562.5
50°	1236.6	1240.1	1243.7	1247.2	1243.7	1240.1	1236.6	1229.4	1225.9	1218.8	1215.3
52.5°	949.6	953.1	946.1	953.1	946.1	953.1	949.6	953.1	942.4	942.4	938.9
55°	719.3	715.8	719.3	722.8	719.3	715.8	719.3	719.3	715.8	715.8	715.8
57.5°	527.9	520.8	520.8	520.8	520.8	520.8	527.9	524.4	535.1	527.9	531.4
60°	393.3	396.8	396.8	400.3	396.8	396.8	393.3	400.3	400.3	404.0	404.0
62.5°	290.5	301.2	294.0	301.2	294.0	301.2	290.5	294.0	294.0	297.7	301.2
65°	187.8	187.8	187.8	191.3	187.8	187.8	187.8	191.3	194.8	191.3	202.0
67.5°	127.6	131.1	138.3	134.6	138.3	131.1	127.6	131.1	131.1	141.8	138.3
70°	102.8	92.2	92.2	102.8	92.2	92.2	102.8	95.7	92.2	99.2	95.7
72.5°	60.2	53.1	60.2	60.2	60.2	53.1	60.2	53.1	56.7	56.7	63.7
75°	31.9	28.3	24.8	35.4	24.8	28.3	31.9	31.9	31.9	31.9	35.4
77.5°	21.3	17.6	24.8	24.8	24.8	17.6	21.3	17.6	21.3	17.6	21.3
80°	10.6	14.1	10.6	17.6	10.6	14.1	10.6	17.6	10.6	14.1	14.1
82.5°	3.5	7.1	7.1	7.1	7.1	7.1	3.5	3.5	7.1	7.1	3.5
85°	0.0	7.1	3.5	3.5	3.5	7.1	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.0	0.0	3.5	0.0	0.0	3.5	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: P248673

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4
2.5°	7330.8	7320.1	7323.8	7302.5	7302.5	7295.3	7299.0	7281.2	7274.2	7267.1	7277.7
5°	7437.1	7419.5	7405.2	7373.4	7355.6	7334.4	7323.8	7295.3	7270.6	7249.3	7245.8
7.5°	7522.1	7483.2	7458.4	7415.8	7384.0	7359.2	7323.8	7284.7	7252.9	7224.5	7203.3
10°	7557.6	7518.6	7479.7	7426.5	7391.0	7344.9	7309.5	7259.9	7217.5	7178.5	7153.6
12.5°	7561.1	7511.5	7476.0	7415.8	7369.7	7320.1	7281.2	7224.5	7174.9	7135.9	7097.0
15°	7529.3	7483.2	7440.6	7376.9	7330.8	7284.7	7238.8	7178.5	7132.4	7086.4	7058.1
17.5°	7458.4	7415.8	7366.2	7306.0	7263.6	7221.0	7171.4	7121.8	7068.6	7019.0	6983.5
20°	7366.2	7320.1	7277.7	7217.5	7182.0	7135.9	7089.9	7036.8	6994.2	6944.6	6905.7
22.5°	7228.1	7185.5	7146.6	7111.2	7054.4	7019.0	6987.2	6927.0	6884.4	6838.3	6795.8
25°	7029.6	6987.2	6955.2	6912.7	6887.9	6848.9	6817.0	6763.9	6725.0	6682.4	6646.9
27.5°	6703.7	6678.9	6661.1	6636.3	6615.2	6597.4	6579.7	6537.1	6508.8	6469.9	6434.5
30°	6214.7	6211.2	6200.5	6189.9	6204.0	6204.0	6204.0	6197.0	6172.2	6143.8	6119.0
32.5°	5587.6	5594.7	5608.9	5619.5	5647.8	5679.7	5708.0	5722.2	5722.2	5704.5	5693.9
35°	4840.0	4850.6	4871.9	4900.2	4935.7	4974.6	5038.3	5052.6	5063.1	5063.1	5049.0
37.5°	4064.0	4060.5	4081.8	4106.6	4127.9	4156.1	4202.2	4212.9	4230.5	4223.5	4209.2
40°	3309.3	3291.6	3284.5	3291.6	3316.4	3305.8	3316.4	3309.3	3309.3	3284.5	3284.5
42.5°	2611.3	2590.1	2575.8	2565.3	2565.3	2540.4	2522.7	2505.1	2494.4	2476.7	2473.2
45°	2012.6	1987.7	1970.0	1962.9	1952.4	1920.4	1899.1	1877.8	1853.0	1846.0	1849.5
47.5°	1562.5	1537.7	1530.6	1512.9	1495.2	1477.5	1463.4	1438.6	1434.9	1420.8	1434.9
50°	1204.6	1197.6	1187.0	1179.8	1169.2	1155.1	1140.9	1126.8	1119.6	1119.6	1123.1
52.5°	935.4	938.9	928.3	917.6	910.6	910.6	892.8	889.3	889.3	875.2	889.3
55°	715.8	712.1	715.8	708.6	708.6	698.0	698.0	687.3	687.3	676.7	683.8
57.5°	524.4	531.4	524.4	527.9	535.1	524.4	520.8	510.1	517.3	510.1	513.8
60°	407.5	407.5	407.5	404.0	404.0	400.3	400.3	396.8	396.8	389.7	396.8
62.5°	301.2	304.7	304.7	304.7	308.3	304.7	301.2	304.7	301.2	301.2	304.7
65°	198.5	202.0	202.0	198.5	205.5	198.5	202.0	205.5	209.0	205.5	209.0
67.5°	134.6	134.6	138.3	141.8	138.3	141.8	145.3	141.8	145.3	152.4	145.3
70°	99.2	102.8	102.8	99.2	95.7	99.2	95.7	106.3	106.3	106.3	113.3
72.5°	63.7	63.7	60.2	60.2	60.2	60.2	60.2	70.9	63.7	60.2	67.4
75°	35.4	38.9	38.9	28.3	31.9	38.9	28.3	31.9	42.6	35.4	42.6
77.5°	21.3	21.3	21.3	21.3	21.3	21.3	28.3	24.8	24.8	24.8	28.3
80°	17.6	14.1	14.1	10.6	14.1	14.1	14.1	21.3	17.6	17.6	21.3
82.5°	7.1	7.1	3.5	0.0	7.1	7.1	7.1	7.1	7.1	7.1	14.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	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: P248673

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4
2.5°	7249.3	7249.3	7245.8	7238.8	7224.5	7224.5	7221.0	7210.3	7203.3	7199.7	7199.7
5°	7213.8	7199.7	7185.5	7146.6	7146.6	7139.4	7118.3	7104.0	7097.0	7079.2	7072.2
7.5°	7182.0	7139.4	7114.7	7089.9	7058.1	7043.8	7019.0	7008.3	6983.5	6965.9	6955.2
10°	7104.0	7075.7	7043.8	7004.8	6980.0	6951.7	6923.3	6902.2	6870.2	6852.4	6838.3
12.5°	7050.9	7008.3	6980.0	6937.5	6895.0	6870.2	6831.3	6806.5	6774.6	6739.1	6717.8
15°	7001.3	6955.2	6916.3	6870.2	6824.1	6795.8	6749.8	6721.5	6675.4	6639.9	6615.2
17.5°	6927.0	6887.9	6845.4	6788.7	6746.3	6710.8	6661.1	6625.8	6583.2	6537.1	6512.3
20°	6848.9	6802.8	6760.4	6703.7	6661.1	6618.7	6569.1	6530.1	6480.4	6438.0	6409.7
22.5°	6746.3	6693.0	6657.6	6600.9	6551.3	6505.3	6459.2	6413.2	6367.1	6331.6	6299.7
25°	6597.4	6540.6	6501.7	6455.6	6409.7	6374.2	6317.5	6289.2	6243.1	6211.2	6179.2
27.5°	6384.7	6342.3	6306.8	6260.8	6221.8	6193.5	6150.9	6122.6	6083.6	6055.3	6030.5
30°	6073.1	6037.6	6005.7	5959.6	5931.3	5906.5	5867.4	5842.6	5814.3	5782.4	5775.4
32.5°	5654.9	5626.5	5594.7	5562.8	5541.5	5527.3	5495.4	5481.2	5453.0	5435.2	5417.5
35°	5024.2	4999.4	4981.7	4967.6	4960.5	4964.0	4957.0	4971.1	4978.1	4974.6	4978.1
37.5°	4198.7	4184.4	4191.6	4202.2	4237.7	4283.8	4326.2	4389.9	4432.5	4475.1	4514.0
40°	3277.5	3288.1	3316.4	3380.1	3472.3	3575.1	3670.8	3791.3	3911.7	3996.7	4074.6
42.5°	2473.2	2505.1	2575.8	2668.0	2806.3	2958.5	3107.4	3284.5	3429.9	3571.5	3670.8
45°	1860.2	1902.6	1994.8	2122.4	2274.7	2451.9	2639.7	2838.0	3011.7	3157.0	3266.8
47.5°	1449.2	1488.1	1580.3	1714.9	1902.6	2087.0	2281.8	2487.3	2668.0	2809.8	2905.4
50°	1144.4	1194.0	1275.5	1417.3	1605.1	1800.0	2001.9	2203.8	2374.0	2494.4	2579.5
52.5°	900.0	946.1	1023.9	1172.8	1364.2	1559.0	1746.7	1945.2	2094.0	2210.9	2267.7
55°	698.0	740.6	822.0	946.1	1126.8	1318.1	1505.8	1676.0	1814.1	1899.1	1952.4
57.5°	531.4	563.4	620.1	744.1	907.1	1084.2	1243.7	1413.8	1520.1	1580.3	1615.6
60°	404.0	428.8	489.0	584.7	733.4	885.8	1020.4	1148.1	1233.1	1282.7	1318.1
62.5°	304.7	333.1	375.5	457.1	570.4	694.5	807.8	903.5	974.4	1006.3	1031.1
65°	209.0	230.3	262.2	326.0	421.6	510.1	598.8	669.7	715.8	751.2	765.4
67.5°	155.9	170.0	187.8	237.4	304.7	375.5	435.8	485.4	535.1	549.2	574.0
70°	117.0	127.6	145.3	180.7	219.6	269.2	319.0	347.2	382.7	407.5	414.6
72.5°	74.4	77.9	95.7	117.0	148.8	180.7	212.6	237.4	258.7	272.9	279.9
75°	42.6	63.7	63.7	85.0	106.3	120.5	141.8	159.4	170.0	180.7	180.7
77.5°	28.3	38.9	42.6	53.1	63.7	81.5	99.2	109.8	120.5	124.0	124.0
80°	24.8	28.3	28.3	38.9	46.1	60.2	70.9	74.4	81.5	85.0	92.2
82.5°	10.6	14.1	17.6	28.3	31.9	31.9	42.6	46.1	53.1	56.7	56.7
85°	3.5	7.1	7.1	10.6	17.6	21.3	24.8	28.3	31.9	31.9	35.4
87.5°	3.5	3.5	0.0	3.5	7.1	7.1	14.1	14.1	14.1	21.3	21.3
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: P248673

CATALOG NUMBER: LSR8B120D010 EC8B120835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4	7256.4
2.5°	7192.7	7196.2	7182.0	7178.5	7171.4	7174.9	7182.0
5°	7061.6	7065.1	7050.9	7036.8	7036.8	7033.1	7036.8
7.5°	6937.5	6941.1	6919.8	6912.7	6898.5	6902.2	6902.2
10°	6813.5	6813.5	6781.7	6778.1	6767.4	6763.9	6763.9
12.5°	6693.0	6682.4	6657.6	6643.4	6650.6	6629.3	6629.3
15°	6586.7	6569.1	6537.1	6526.5	6508.8	6501.7	6501.7
17.5°	6476.9	6462.7	6434.5	6413.2	6391.9	6388.4	6391.9
20°	6370.6	6356.4	6321.0	6306.8	6289.2	6289.2	6282.1
22.5°	6264.3	6250.1	6218.3	6207.7	6182.9	6182.9	6186.4
25°	6154.4	6143.8	6108.4	6101.4	6097.9	6083.6	6090.7
27.5°	6005.7	5998.5	5970.2	5959.6	5945.5	5942.0	5949.0
30°	5732.8	5722.2	5701.0	5690.4	5665.6	5669.1	5676.1
32.5°	5392.7	5378.6	5350.1	5339.5	5318.3	5311.2	5314.7
35°	4967.6	4957.0	4932.2	4932.2	4910.9	4903.7	4910.9
37.5°	4535.3	4545.8	4535.3	4545.8	4535.3	4531.7	4535.3
40°	4127.9	4166.8	4173.8	4212.9	4198.7	4219.9	4216.4
42.5°	3738.0	3801.8	3826.7	3858.5	3851.5	3865.6	3876.3
45°	3344.7	3397.9	3422.7	3444.0	3447.5	3454.7	3458.2
47.5°	2972.7	3015.2	3018.7	3043.5	3040.0	3040.0	3050.7
50°	2625.6	2653.8	2660.8	2678.6	2664.5	2657.3	2660.8
52.5°	2303.1	2331.4	2324.2	2331.4	2313.7	2306.6	2310.1
55°	1973.5	1987.7	1987.7	1987.7	1966.5	1966.5	1966.5
57.5°	1636.9	1640.6	1633.4	1636.9	1633.4	1612.1	1608.6
60°	1328.7	1328.7	1325.1	1328.7	1318.1	1307.5	1307.5
62.5°	1038.1	1045.2	1059.4	1045.2	1038.1	1045.2	1034.6
65°	776.0	790.2	786.5	793.7	790.2	790.2	783.0
67.5°	584.7	588.2	591.7	595.3	595.3	595.3	595.3
70°	428.8	439.4	435.8	435.8	435.8	435.8	457.1
72.5°	287.0	301.2	297.7	304.7	304.7	311.8	304.7
75°	194.8	209.0	202.0	212.6	209.0	202.0	219.6
77.5°	131.1	138.3	141.8	145.3	141.8	138.3	141.8
80°	92.2	99.2	95.7	99.2	99.2	99.2	102.8
82.5°	56.7	67.4	63.7	67.4	63.7	67.4	67.4
85°	38.9	42.6	35.4	42.6	38.9	38.9	46.1
87.5°	24.8	21.3	21.3	24.8	21.3	24.8	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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