

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: P248871

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248871
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 EC8B120827 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8839.0 lumens
Efficiency: N/A
Efficacy: 74.7 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

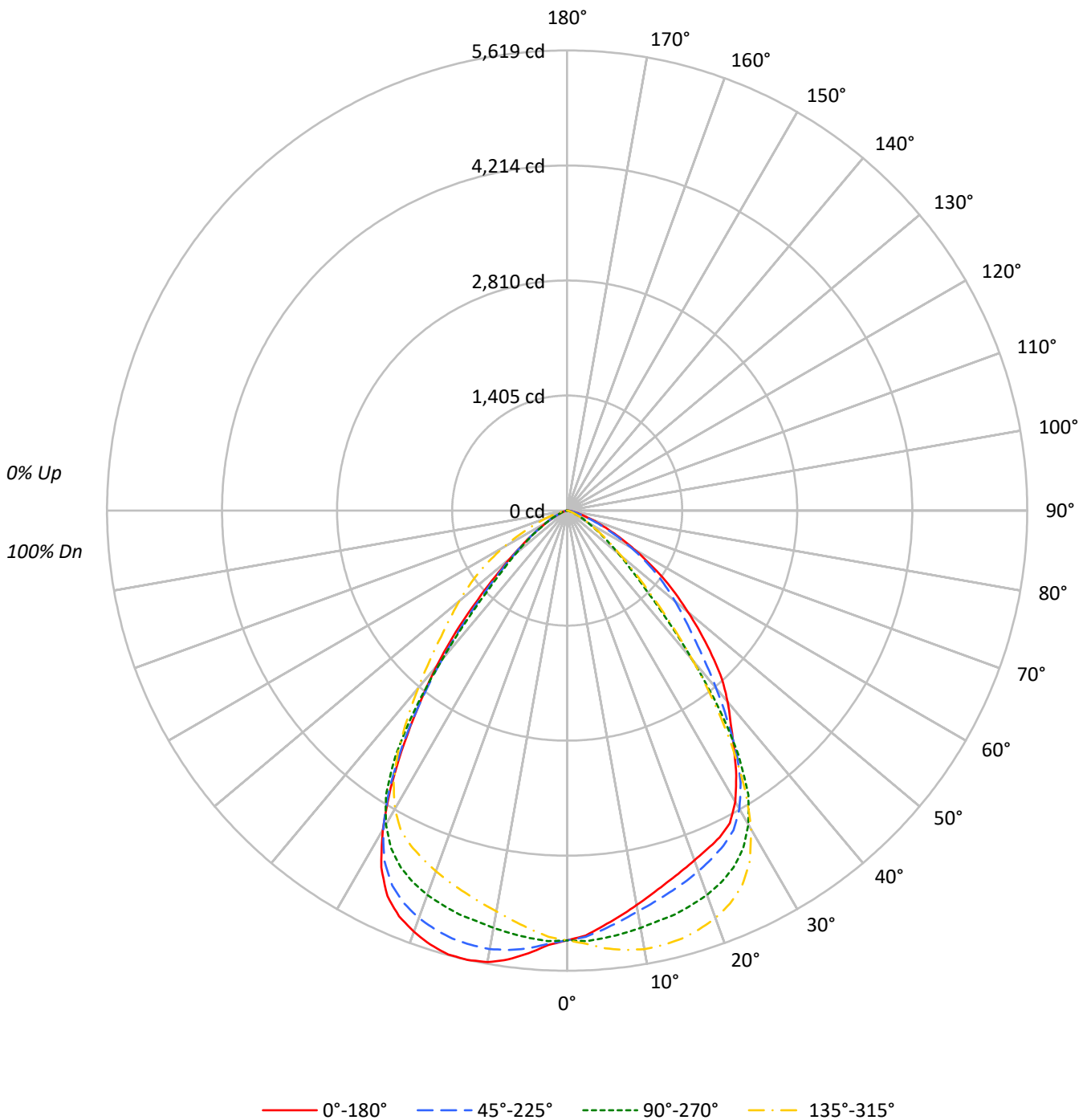
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	161810	161810	161810	161810
5°	157513	162190	167982	162190
10°	153156	161980	175297	161980
15°	150098	162941	179136	162941
20°	149073	163873	179595	163873
25°	149859	163544	176708	163544
30°	146151	157556	160387	157556
35°	133686	137443	130407	137443
40°	122738	95607	99842	95607
45°	109053	58327	67489	58327
50°	92309	38963	43267	38963
55°	76454	26585	28101	26585
60°	58311	17700	17854	17700
65°	41313	11025	10098	11025
70°	29798	7384	6708	7384
75°	18920	3670	3050	3670
80°	13212	2735	2273	2735
85°	11782	0	885	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.5	5.7
10°-20°	1446.3	16.4
20°-30°	2190.1	24.8
30°-40°	2195.0	24.8
40°-50°	1378.3	15.6
50°-60°	734.5	8.3
60°-70°	302.0	3.4
70°-80°	79.8	0.9
80°-90°	13.5	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°	4135.8	46.8
0°-40°	6330.8	71.6
0°-60°	8443.7	95.5
0°-90°	8839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8839.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5247	5247	5247	5247	5247	
5°	5089	5240	5427	5240	5089	480
15°	4702	5104	5611	5104	4702	1330
25°	4404	4807	5194	4807	4404	2020
35°	3551	3651	3464	3651	3551	2225
45°	2501	1338	1548	1338	2501	1923
55°	1422	494	523	494	1422	1268
65°	566	151	138	151	566	587
75°	159	31	26	31	159	180
85°	33	0	2	0	33	37
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°	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4
2.5°	5193.6	5188.5	5185.9	5191.1	5193.6	5203.9	5201.3	5206.4	5206.4	5209.0	5214.1
5°	5088.6	5086.0	5088.6	5088.6	5098.8	5109.1	5106.5	5114.2	5119.3	5132.2	5137.2
7.5°	4991.3	4991.3	4988.6	4998.9	5004.0	5019.4	5016.8	5029.7	5037.4	5050.1	5068.0
10°	4891.3	4891.3	4893.8	4901.5	4904.2	4927.1	4927.1	4945.1	4955.3	4968.2	4991.3
12.5°	4793.9	4793.9	4809.3	4804.2	4814.4	4832.3	4840.0	4858.0	4873.4	4899.0	4922.1
15°	4701.7	4701.7	4706.8	4719.6	4727.3	4750.4	4763.1	4783.7	4801.6	4827.3	4860.6
17.5°	4622.2	4619.7	4622.2	4637.6	4653.0	4673.5	4683.7	4709.4	4727.3	4760.6	4791.4
20°	4542.8	4548.0	4548.0	4560.8	4571.0	4596.6	4606.9	4635.1	4655.6	4686.3	4722.2
22.5°	4473.6	4471.1	4471.1	4489.0	4496.7	4519.7	4530.0	4555.6	4578.7	4604.3	4637.6
25°	4404.5	4399.3	4409.6	4412.2	4417.2	4442.9	4450.6	4468.5	4491.6	4514.7	4548.0
27.5°	4302.0	4296.9	4299.4	4309.7	4317.4	4337.8	4343.0	4360.9	4378.8	4399.3	4427.6
30°	4104.6	4099.6	4097.0	4115.0	4122.7	4138.0	4145.7	4176.5	4181.5	4204.6	4225.1
32.5°	3843.3	3840.8	3845.9	3861.2	3868.9	3889.5	3899.7	3917.6	3930.4	3943.3	3963.7
35°	3551.3	3546.1	3551.3	3566.7	3566.7	3584.6	3592.3	3599.9	3597.4	3599.9	3594.8
37.5°	3279.7	3277.1	3279.7	3287.3	3279.7	3287.3	3279.7	3264.3	3236.1	3205.3	3174.6
40°	3049.1	3051.6	3036.3	3046.5	3018.3	3013.2	2985.0	2946.5	2890.2	2828.7	2741.6
42.5°	2803.1	2795.4	2785.2	2790.2	2767.3	2749.2	2703.1	2654.5	2582.7	2480.3	2375.1
45°	2500.7	2498.2	2493.0	2490.5	2475.1	2457.2	2418.7	2362.4	2283.0	2177.9	2052.3
47.5°	2206.1	2198.4	2198.4	2200.9	2183.0	2180.5	2149.7	2101.0	2031.9	1929.3	1798.7
50°	1924.2	1921.6	1926.8	1937.0	1924.2	1919.1	1898.7	1865.3	1803.8	1716.7	1593.7
52.5°	1670.5	1668.0	1673.2	1685.9	1680.8	1685.9	1665.5	1639.8	1598.8	1514.2	1406.7
55°	1422.1	1422.1	1422.1	1437.4	1437.4	1437.4	1427.1	1411.8	1373.3	1311.9	1212.0
57.5°	1163.3	1165.8	1181.2	1183.7	1181.2	1186.4	1183.7	1168.3	1142.8	1099.2	1022.4
60°	945.5	945.5	953.2	960.9	958.2	960.9	960.9	953.2	927.6	891.7	830.2
62.5°	748.2	755.9	750.7	755.9	766.1	755.9	750.7	745.6	727.7	704.6	653.3
65°	566.2	571.4	571.4	573.9	568.8	571.4	561.2	553.5	543.2	517.6	484.3
67.5°	430.5	430.5	430.5	430.5	427.9	425.3	422.8	415.1	397.2	386.9	351.0
70°	330.5	315.1	315.1	315.1	315.1	317.8	310.1	299.8	294.7	276.7	251.1
72.5°	220.3	225.5	220.3	220.3	215.3	217.8	207.6	202.4	197.3	187.1	171.7
75°	158.8	146.1	151.1	153.8	146.1	151.1	140.9	130.7	130.7	123.0	115.3
77.5°	102.5	100.0	102.5	105.0	102.5	100.0	94.8	89.6	89.6	87.1	79.4
80°	74.4	71.7	71.7	71.7	69.2	71.7	66.7	66.7	61.5	59.0	53.8
82.5°	48.7	48.7	46.1	48.7	46.1	48.7	41.0	41.0	41.0	38.4	33.3
85°	33.3	28.2	28.2	30.8	25.6	30.8	28.2	25.6	23.1	23.1	20.5
87.5°	15.4	17.9	15.4	17.9	15.4	15.4	17.9	15.4	15.4	10.2	10.2
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°	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4
2.5°	5221.8	5224.3	5224.3	5234.7	5239.7	5242.3	5242.3	5262.8	5255.1	5260.3	5265.4
5°	5147.6	5162.9	5168.0	5168.0	5196.2	5206.4	5216.6	5239.7	5242.3	5257.7	5275.6
7.5°	5075.7	5093.7	5104.0	5127.0	5144.9	5162.9	5193.6	5209.0	5224.3	5244.9	5267.9
10°	5006.6	5027.1	5047.6	5065.5	5093.7	5116.8	5137.2	5173.1	5191.1	5219.3	5250.0
12.5°	4940.0	4968.2	4986.1	5016.8	5047.6	5068.0	5098.8	5132.2	5160.3	5188.5	5224.3
15°	4881.1	4914.4	4934.8	4968.2	5001.5	5029.7	5063.0	5104.0	5124.5	5157.8	5191.1
17.5°	4816.9	4852.9	4878.5	4909.2	4950.2	4980.9	5009.2	5050.1	5075.7	5111.6	5150.1
20°	4750.4	4786.2	4816.9	4847.7	4888.8	4919.4	4952.8	4993.8	5022.0	5057.8	5088.6
22.5°	4671.0	4704.3	4737.5	4773.4	4814.4	4840.0	4878.5	4914.4	4945.1	4978.4	5009.2
25°	4568.5	4609.5	4635.1	4668.3	4701.7	4729.8	4770.8	4806.7	4832.3	4863.1	4891.3
27.5°	4448.0	4478.8	4499.3	4527.4	4560.8	4586.4	4617.1	4653.0	4678.7	4706.8	4727.3
30°	4243.0	4271.3	4289.2	4309.7	4343.0	4366.1	4391.7	4424.9	4442.9	4463.4	4481.3
32.5°	3974.0	3997.1	4007.3	4022.7	4045.8	4068.8	4089.3	4117.5	4125.2	4138.0	4138.0
35°	3584.6	3589.7	3587.1	3592.3	3602.5	3615.3	3633.2	3651.1	3661.4	3661.4	3653.8
37.5°	3128.5	3097.8	3064.4	3038.8	3031.1	3026.0	3036.3	3043.9	3054.2	3059.3	3046.5
40°	2654.5	2585.3	2511.0	2444.3	2398.2	2377.8	2370.1	2375.1	2375.1	2393.1	2393.1
42.5°	2247.1	2139.4	2029.3	1929.3	1862.7	1811.5	1788.4	1788.4	1791.0	1803.8	1811.5
45°	1908.9	1773.0	1644.9	1534.8	1442.5	1375.9	1345.2	1337.5	1335.0	1340.0	1357.9
47.5°	1650.1	1509.2	1375.9	1240.1	1142.8	1076.1	1048.0	1037.7	1027.4	1037.7	1040.3
50°	1447.7	1301.6	1160.7	1024.9	922.4	863.4	827.6	812.2	809.6	809.6	814.8
52.5°	1263.1	1127.4	986.5	848.1	740.5	684.1	650.8	643.1	632.9	643.1	643.1
55°	1088.9	953.2	814.8	684.1	594.4	535.5	504.7	494.5	489.3	497.0	497.0
57.5°	899.4	784.0	656.0	538.1	448.4	407.4	384.3	371.5	368.9	374.1	368.9
60°	737.9	640.6	530.4	422.8	353.6	310.1	292.1	287.0	281.8	287.0	287.0
62.5°	584.2	502.2	412.5	330.5	271.6	240.9	220.3	220.3	217.8	217.8	220.3
65°	433.0	368.9	304.9	235.7	189.6	166.5	151.1	151.1	148.6	151.1	148.6
67.5°	315.1	271.6	220.3	171.7	135.8	123.0	112.7	105.0	110.2	105.0	102.5
70°	230.6	194.7	158.8	130.7	105.0	92.3	84.6	81.9	76.9	76.9	76.9
72.5°	153.8	130.7	107.6	84.6	69.2	56.3	53.8	48.7	43.6	46.1	51.3
75°	102.5	87.1	76.9	61.5	46.1	46.1	30.8	30.8	25.6	30.8	23.1
77.5°	71.7	59.0	46.1	38.4	30.8	28.2	20.5	20.5	17.9	17.9	17.9
80°	51.3	43.6	33.3	28.2	20.5	20.5	17.9	15.4	12.8	12.8	15.4
82.5°	30.8	23.1	23.1	20.5	12.8	10.2	7.7	10.2	5.2	5.2	5.2
85°	17.9	15.4	12.8	7.7	5.2	5.2	2.5	0.0	2.5	2.5	0.0
87.5°	10.2	5.2	5.2	2.5	0.0	2.5	2.5	0.0	0.0	0.0	5.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4
2.5°	5278.2	5275.6	5280.8	5280.8	5296.2	5293.5	5301.2	5301.2	5296.2	5298.7	5308.9
5°	5296.2	5303.9	5319.1	5332.0	5355.0	5365.3	5378.1	5391.0	5393.5	5401.2	5408.9
7.5°	5296.2	5321.8	5339.7	5362.7	5393.5	5411.4	5439.6	5462.7	5472.9	5485.7	5501.1
10°	5285.8	5311.5	5344.8	5370.4	5408.9	5437.1	5465.2	5501.1	5516.5	5536.9	5557.5
12.5°	5265.4	5293.5	5329.4	5362.7	5406.3	5431.9	5467.7	5501.1	5524.2	5552.3	5575.4
15°	5234.7	5267.9	5301.2	5334.5	5380.6	5411.4	5444.8	5483.1	5506.2	5536.9	5557.5
17.5°	5185.9	5221.8	5252.6	5283.3	5326.8	5362.7	5393.5	5429.4	5452.5	5478.1	5506.2
20°	5127.0	5160.3	5193.6	5219.3	5262.8	5293.5	5326.8	5360.2	5378.1	5383.3	5426.8
22.5°	5052.7	5075.7	5101.4	5142.4	5168.0	5196.2	5227.0	5257.7	5275.6	5303.9	5319.1
25°	4929.7	4952.8	4980.9	4998.9	5029.7	5052.7	5083.4	5116.8	5127.0	5147.6	5162.9
27.5°	4758.1	4770.8	4783.7	4799.0	4816.9	4829.8	4847.7	4863.1	4873.4	4883.6	4893.8
30°	4486.4	4486.4	4486.4	4476.2	4483.9	4491.6	4494.1	4491.6	4491.6	4489.0	4489.0
32.5°	4127.7	4107.3	4084.2	4063.7	4056.0	4045.8	4040.6	4032.9	4020.2	4012.5	4015.0
35°	3643.4	3597.4	3569.2	3543.6	3523.1	3507.7	3500.0	3492.3	3489.8	3479.6	3469.2
37.5°	3038.8	3005.5	2985.0	2969.6	2951.7	2936.3	2938.8	2941.5	2949.1	2944.0	2946.5
40°	2398.2	2390.5	2398.2	2380.3	2375.1	2380.3	2393.1	2411.1	2421.3	2431.6	2449.5
42.5°	1824.3	1837.1	1855.1	1855.1	1862.7	1873.0	1888.3	1916.6	1931.9	1949.8	1970.4
45°	1373.3	1388.7	1411.8	1419.4	1424.6	1437.4	1455.4	1478.4	1488.6	1504.0	1521.9
47.5°	1058.2	1068.4	1081.2	1094.1	1106.8	1112.0	1129.9	1129.9	1142.8	1153.0	1158.1
50°	825.0	835.3	845.5	853.2	858.4	866.1	871.1	878.8	881.4	886.5	889.1
52.5°	645.6	658.5	658.5	663.6	671.3	679.0	676.4	679.0	681.5	681.5	689.2
55°	504.7	504.7	512.4	512.4	517.6	515.0	517.6	517.6	517.6	517.6	520.1
57.5°	376.6	379.2	386.9	381.8	379.2	384.3	379.2	384.3	381.8	386.9	379.2
60°	289.5	289.5	292.1	292.1	294.7	294.7	294.7	292.1	292.1	289.5	289.5
62.5°	217.8	220.3	222.9	220.3	220.3	220.3	217.8	217.8	215.3	212.6	212.6
65°	146.1	143.5	148.6	143.5	146.1	146.1	143.5	146.1	138.4	140.9	138.4
67.5°	105.0	102.5	100.0	102.5	100.0	97.3	97.3	100.0	102.5	94.8	94.8
70°	69.2	71.7	69.2	71.7	74.4	74.4	71.7	69.2	71.7	66.7	69.2
72.5°	43.6	43.6	43.6	43.6	43.6	46.1	46.1	46.1	41.0	41.0	38.4
75°	20.5	28.2	23.1	20.5	28.2	28.2	25.6	25.6	23.1	23.1	23.1
77.5°	20.5	15.4	15.4	15.4	15.4	15.4	15.4	15.4	12.8	15.4	12.8
80°	10.2	10.2	10.2	7.7	10.2	10.2	12.8	10.2	10.2	7.7	12.8
82.5°	5.2	5.2	5.2	0.0	2.5	5.2	5.2	2.5	5.2	5.2	2.5
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: P248871

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4
2.5°	5306.4	5303.9	5306.4	5308.9	5306.4	5303.9	5306.4	5308.9	5298.7	5296.2	5301.2
5°	5419.1	5419.1	5424.2	5426.8	5424.2	5419.1	5419.1	5408.9	5401.2	5393.5	5391.0
7.5°	5516.5	5521.6	5526.7	5529.2	5526.7	5521.6	5516.5	5501.1	5485.7	5472.9	5462.7
10°	5575.4	5583.1	5593.4	5598.4	5593.4	5583.1	5575.4	5557.5	5536.9	5516.5	5501.1
12.5°	5601.1	5608.8	5621.5	5619.0	5621.5	5608.8	5601.1	5575.4	5552.3	5524.2	5501.1
15°	5583.1	5593.4	5606.1	5611.3	5606.1	5593.4	5583.1	5557.5	5536.9	5506.2	5483.1
17.5°	5526.7	5542.1	5549.8	5557.5	5549.8	5542.1	5526.7	5506.2	5478.1	5452.5	5429.4
20°	5449.8	5460.2	5470.4	5472.9	5470.4	5460.2	5449.8	5426.8	5383.3	5378.1	5360.2
22.5°	5339.7	5347.4	5370.4	5362.7	5370.4	5347.4	5339.7	5319.1	5303.9	5275.6	5257.7
25°	5180.8	5188.5	5191.1	5193.6	5191.1	5188.5	5180.8	5162.9	5147.6	5127.0	5116.8
27.5°	4906.7	4906.7	4911.7	4914.4	4911.7	4906.7	4906.7	4893.8	4883.6	4873.4	4863.1
30°	4491.6	4491.6	4491.6	4504.4	4491.6	4491.6	4491.6	4489.0	4489.0	4491.6	4491.6
32.5°	4012.5	4007.3	4002.2	4007.3	4002.2	4007.3	4012.5	4015.0	4012.5	4020.2	4032.9
35°	3469.2	3466.7	3474.4	3464.2	3474.4	3466.7	3469.2	3469.2	3479.6	3489.8	3492.3
37.5°	2949.1	2944.0	2954.2	2944.0	2954.2	2944.0	2949.1	2946.5	2944.0	2949.1	2941.5
40°	2454.7	2459.7	2459.7	2480.3	2459.7	2459.7	2454.7	2449.5	2431.6	2421.3	2411.1
42.5°	1980.6	1996.0	1990.8	2006.2	1990.8	1996.0	1980.6	1970.4	1949.8	1931.9	1916.6
45°	1532.2	1542.5	1542.5	1547.6	1542.5	1542.5	1532.2	1521.9	1504.0	1488.6	1478.4
47.5°	1176.0	1176.0	1176.0	1178.7	1176.0	1176.0	1176.0	1158.1	1153.0	1142.8	1129.9
50°	894.2	896.8	899.4	901.9	899.4	896.8	894.2	889.1	886.5	881.4	878.8
52.5°	686.7	689.2	684.1	689.2	684.1	689.2	686.7	689.2	681.5	681.5	679.0
55°	520.1	517.6	520.1	522.7	520.1	517.6	520.1	520.1	517.6	517.6	517.6
57.5°	381.8	376.6	376.6	376.6	376.6	376.6	381.8	379.2	386.9	381.8	384.3
60°	284.4	287.0	287.0	289.5	287.0	287.0	284.4	289.5	289.5	292.1	292.1
62.5°	210.1	217.8	212.6	217.8	212.6	217.8	210.1	212.6	212.6	215.3	217.8
65°	135.8	135.8	135.8	138.4	135.8	135.8	135.8	138.4	140.9	138.4	146.1
67.5°	92.3	94.8	100.0	97.3	100.0	94.8	92.3	94.8	94.8	102.5	100.0
70°	74.4	66.7	66.7	74.4	66.7	66.7	74.4	69.2	66.7	71.7	69.2
72.5°	43.6	38.4	43.6	43.6	43.6	38.4	43.6	38.4	41.0	41.0	46.1
75°	23.1	20.5	17.9	25.6	17.9	20.5	23.1	23.1	23.1	23.1	25.6
77.5°	15.4	12.8	17.9	17.9	17.9	12.8	15.4	12.8	15.4	12.8	15.4
80°	7.7	10.2	7.7	12.8	7.7	10.2	7.7	12.8	7.7	10.2	10.2
82.5°	2.5	5.2	5.2	5.2	5.2	5.2	2.5	2.5	5.2	5.2	2.5
85°	0.0	5.2	2.5	2.5	2.5	5.2	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.0	0.0	2.5	0.0	0.0	2.5	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: P248871

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4
2.5°	5301.2	5293.5	5296.2	5280.8	5280.8	5275.6	5278.2	5265.4	5260.3	5255.1	5262.8
5°	5378.1	5365.3	5355.0	5332.0	5319.1	5303.9	5296.2	5275.6	5257.7	5242.3	5239.7
7.5°	5439.6	5411.4	5393.5	5362.7	5339.7	5321.8	5296.2	5267.9	5244.9	5224.3	5209.0
10°	5465.2	5437.1	5408.9	5370.4	5344.8	5311.5	5285.8	5250.0	5219.3	5191.1	5173.1
12.5°	5467.7	5431.9	5406.3	5362.7	5329.4	5293.5	5265.4	5224.3	5188.5	5160.3	5132.2
15°	5444.8	5411.4	5380.6	5334.5	5301.2	5267.9	5234.7	5191.1	5157.8	5124.5	5104.0
17.5°	5393.5	5362.7	5326.8	5283.3	5252.6	5221.8	5185.9	5150.1	5111.6	5075.7	5050.1
20°	5326.8	5293.5	5262.8	5219.3	5193.6	5160.3	5127.0	5088.6	5057.8	5022.0	4993.8
22.5°	5227.0	5196.2	5168.0	5142.4	5101.4	5075.7	5052.7	5009.2	4978.4	4945.1	4914.4
25°	5083.4	5052.7	5029.7	4998.9	4980.9	4952.8	4929.7	4891.3	4863.1	4832.3	4806.7
27.5°	4847.7	4829.8	4816.9	4799.0	4783.7	4770.8	4758.1	4727.3	4706.8	4678.7	4653.0
30°	4494.1	4491.6	4483.9	4476.2	4486.4	4486.4	4486.4	4481.3	4463.4	4442.9	4424.9
32.5°	4040.6	4045.8	4056.0	4063.7	4084.2	4107.3	4127.7	4138.0	4138.0	4125.2	4117.5
35°	3500.0	3507.7	3523.1	3543.6	3569.2	3597.4	3643.4	3653.8	3661.4	3661.4	3651.1
37.5°	2938.8	2936.3	2951.7	2969.6	2985.0	3005.5	3038.8	3046.5	3059.3	3054.2	3043.9
40°	2393.1	2380.3	2375.1	2380.3	2398.2	2390.5	2398.2	2393.1	2393.1	2375.1	2375.1
42.5°	1888.3	1873.0	1862.7	1855.1	1855.1	1837.1	1824.3	1811.5	1803.8	1791.0	1788.4
45°	1455.4	1437.4	1424.6	1419.4	1411.8	1388.7	1373.3	1357.9	1340.0	1335.0	1337.5
47.5°	1129.9	1112.0	1106.8	1094.1	1081.2	1068.4	1058.2	1040.3	1037.7	1027.4	1037.7
50°	871.1	866.1	858.4	853.2	845.5	835.3	825.0	814.8	809.6	809.6	812.2
52.5°	676.4	679.0	671.3	663.6	658.5	658.5	645.6	643.1	643.1	632.9	643.1
55°	517.6	515.0	517.6	512.4	512.4	504.7	504.7	497.0	497.0	489.3	494.5
57.5°	379.2	384.3	379.2	381.8	386.9	379.2	376.6	368.9	374.1	368.9	371.5
60°	294.7	294.7	294.7	292.1	292.1	289.5	289.5	287.0	287.0	281.8	287.0
62.5°	217.8	220.3	220.3	220.3	222.9	220.3	217.8	220.3	217.8	217.8	220.3
65°	143.5	146.1	146.1	143.5	148.6	143.5	146.1	148.6	151.1	148.6	151.1
67.5°	97.3	97.3	100.0	102.5	100.0	102.5	105.0	102.5	105.0	110.2	105.0
70°	71.7	74.4	74.4	71.7	69.2	71.7	69.2	76.9	76.9	76.9	81.9
72.5°	46.1	46.1	43.6	43.6	43.6	43.6	43.6	51.3	46.1	43.6	48.7
75°	25.6	28.2	28.2	20.5	23.1	28.2	20.5	23.1	30.8	25.6	30.8
77.5°	15.4	15.4	15.4	15.4	15.4	15.4	20.5	17.9	17.9	17.9	20.5
80°	12.8	10.2	10.2	7.7	10.2	10.2	10.2	15.4	12.8	12.8	15.4
82.5°	5.2	5.2	2.5	0.0	5.2	5.2	5.2	5.2	5.2	5.2	10.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	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: P248871

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4
2.5°	5242.3	5242.3	5239.7	5234.7	5224.3	5224.3	5221.8	5214.1	5209.0	5206.4	5206.4
5°	5216.6	5206.4	5196.2	5168.0	5168.0	5162.9	5147.6	5137.2	5132.2	5119.3	5114.2
7.5°	5193.6	5162.9	5144.9	5127.0	5104.0	5093.7	5075.7	5068.0	5050.1	5037.4	5029.7
10°	5137.2	5116.8	5093.7	5065.5	5047.6	5027.1	5006.6	4991.3	4968.2	4955.3	4945.1
12.5°	5098.8	5068.0	5047.6	5016.8	4986.1	4968.2	4940.0	4922.1	4899.0	4873.4	4858.0
15°	5063.0	5029.7	5001.5	4968.2	4934.8	4914.4	4881.1	4860.6	4827.3	4801.6	4783.7
17.5°	5009.2	4980.9	4950.2	4909.2	4878.5	4852.9	4816.9	4791.4	4760.6	4727.3	4709.4
20°	4952.8	4919.4	4888.8	4847.7	4816.9	4786.2	4750.4	4722.2	4686.3	4655.6	4635.1
22.5°	4878.5	4840.0	4814.4	4773.4	4737.5	4704.3	4671.0	4637.6	4604.3	4578.7	4555.6
25°	4770.8	4729.8	4701.7	4668.3	4635.1	4609.5	4568.5	4548.0	4514.7	4491.6	4468.5
27.5°	4617.1	4586.4	4560.8	4527.4	4499.3	4478.8	4448.0	4427.6	4399.3	4378.8	4360.9
30°	4391.7	4366.1	4343.0	4309.7	4289.2	4271.3	4243.0	4225.1	4204.6	4181.5	4176.5
32.5°	4089.3	4068.8	4045.8	4022.7	4007.3	3997.1	3974.0	3963.7	3943.3	3930.4	3917.6
35°	3633.2	3615.3	3602.5	3592.3	3587.1	3589.7	3584.6	3594.8	3599.9	3597.4	3599.9
37.5°	3036.3	3026.0	3031.1	3038.8	3064.4	3097.8	3128.5	3174.6	3205.3	3236.1	3264.3
40°	2370.1	2377.8	2398.2	2444.3	2511.0	2585.3	2654.5	2741.6	2828.7	2890.2	2946.5
42.5°	1788.4	1811.5	1862.7	1929.3	2029.3	2139.4	2247.1	2375.1	2480.3	2582.7	2654.5
45°	1345.2	1375.9	1442.5	1534.8	1644.9	1773.0	1908.9	2052.3	2177.9	2283.0	2362.4
47.5°	1048.0	1076.1	1142.8	1240.1	1375.9	1509.2	1650.1	1798.7	1929.3	2031.9	2101.0
50°	827.6	863.4	922.4	1024.9	1160.7	1301.6	1447.7	1593.7	1716.7	1803.8	1865.3
52.5°	650.8	684.1	740.5	848.1	986.5	1127.4	1263.1	1406.7	1514.2	1598.8	1639.8
55°	504.7	535.5	594.4	684.1	814.8	953.2	1088.9	1212.0	1311.9	1373.3	1411.8
57.5°	384.3	407.4	448.4	538.1	656.0	784.0	899.4	1022.4	1099.2	1142.8	1168.3
60°	292.1	310.1	353.6	422.8	530.4	640.6	737.9	830.2	891.7	927.6	953.2
62.5°	220.3	240.9	271.6	330.5	412.5	502.2	584.2	653.3	704.6	727.7	745.6
65°	151.1	166.5	189.6	235.7	304.9	368.9	433.0	484.3	517.6	543.2	553.5
67.5°	112.7	123.0	135.8	171.7	220.3	271.6	315.1	351.0	386.9	397.2	415.1
70°	84.6	92.3	105.0	130.7	158.8	194.7	230.6	251.1	276.7	294.7	299.8
72.5°	53.8	56.3	69.2	84.6	107.6	130.7	153.8	171.7	187.1	197.3	202.4
75°	30.8	46.1	46.1	61.5	76.9	87.1	102.5	115.3	123.0	130.7	130.7
77.5°	20.5	28.2	30.8	38.4	46.1	59.0	71.7	79.4	87.1	89.6	89.6
80°	17.9	20.5	20.5	28.2	33.3	43.6	51.3	53.8	59.0	61.5	66.7
82.5°	7.7	10.2	12.8	20.5	23.1	23.1	30.8	33.3	38.4	41.0	41.0
85°	2.5	5.2	5.2	7.7	12.8	15.4	17.9	20.5	23.1	23.1	25.6
87.5°	2.5	2.5	0.0	2.5	5.2	5.2	10.2	10.2	10.2	15.4	15.4
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: P248871

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4	5247.4
2.5°	5201.3	5203.9	5193.6	5191.1	5185.9	5188.5	5193.6
5°	5106.5	5109.1	5098.8	5088.6	5088.6	5086.0	5088.6
7.5°	5016.8	5019.4	5004.0	4998.9	4988.6	4991.3	4991.3
10°	4927.1	4927.1	4904.2	4901.5	4893.8	4891.3	4891.3
12.5°	4840.0	4832.3	4814.4	4804.2	4809.3	4793.9	4793.9
15°	4763.1	4750.4	4727.3	4719.6	4706.8	4701.7	4701.7
17.5°	4683.7	4673.5	4653.0	4637.6	4622.2	4619.7	4622.2
20°	4606.9	4596.6	4571.0	4560.8	4548.0	4548.0	4542.8
22.5°	4530.0	4519.7	4496.7	4489.0	4471.1	4471.1	4473.6
25°	4450.6	4442.9	4417.2	4412.2	4409.6	4399.3	4404.5
27.5°	4343.0	4337.8	4317.4	4309.7	4299.4	4296.9	4302.0
30°	4145.7	4138.0	4122.7	4115.0	4097.0	4099.6	4104.6
32.5°	3899.7	3889.5	3868.9	3861.2	3845.9	3840.8	3843.3
35°	3592.3	3584.6	3566.7	3566.7	3551.3	3546.1	3551.3
37.5°	3279.7	3287.3	3279.7	3287.3	3279.7	3277.1	3279.7
40°	2985.0	3013.2	3018.3	3046.5	3036.3	3051.6	3049.1
42.5°	2703.1	2749.2	2767.3	2790.2	2785.2	2795.4	2803.1
45°	2418.7	2457.2	2475.1	2490.5	2493.0	2498.2	2500.7
47.5°	2149.7	2180.5	2183.0	2200.9	2198.4	2198.4	2206.1
50°	1898.7	1919.1	1924.2	1937.0	1926.8	1921.6	1924.2
52.5°	1665.5	1685.9	1680.8	1685.9	1673.2	1668.0	1670.5
55°	1427.1	1437.4	1437.4	1437.4	1422.1	1422.1	1422.1
57.5°	1183.7	1186.4	1181.2	1183.7	1181.2	1165.8	1163.3
60°	960.9	960.9	958.2	960.9	953.2	945.5	945.5
62.5°	750.7	755.9	766.1	755.9	750.7	755.9	748.2
65°	561.2	571.4	568.8	573.9	571.4	571.4	566.2
67.5°	422.8	425.3	427.9	430.5	430.5	430.5	430.5
70°	310.1	317.8	315.1	315.1	315.1	315.1	330.5
72.5°	207.6	217.8	215.3	220.3	220.3	225.5	220.3
75°	140.9	151.1	146.1	153.8	151.1	146.1	158.8
77.5°	94.8	100.0	102.5	105.0	102.5	100.0	102.5
80°	66.7	71.7	69.2	71.7	71.7	71.7	74.4
82.5°	41.0	48.7	46.1	48.7	46.1	48.7	48.7
85°	28.2	30.8	25.6	30.8	28.2	28.2	33.3
87.5°	17.9	15.4	15.4	17.9	15.4	17.9	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)