

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: P249076

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249076
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: LSR8B90D010 EC8B90930 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7703.5 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

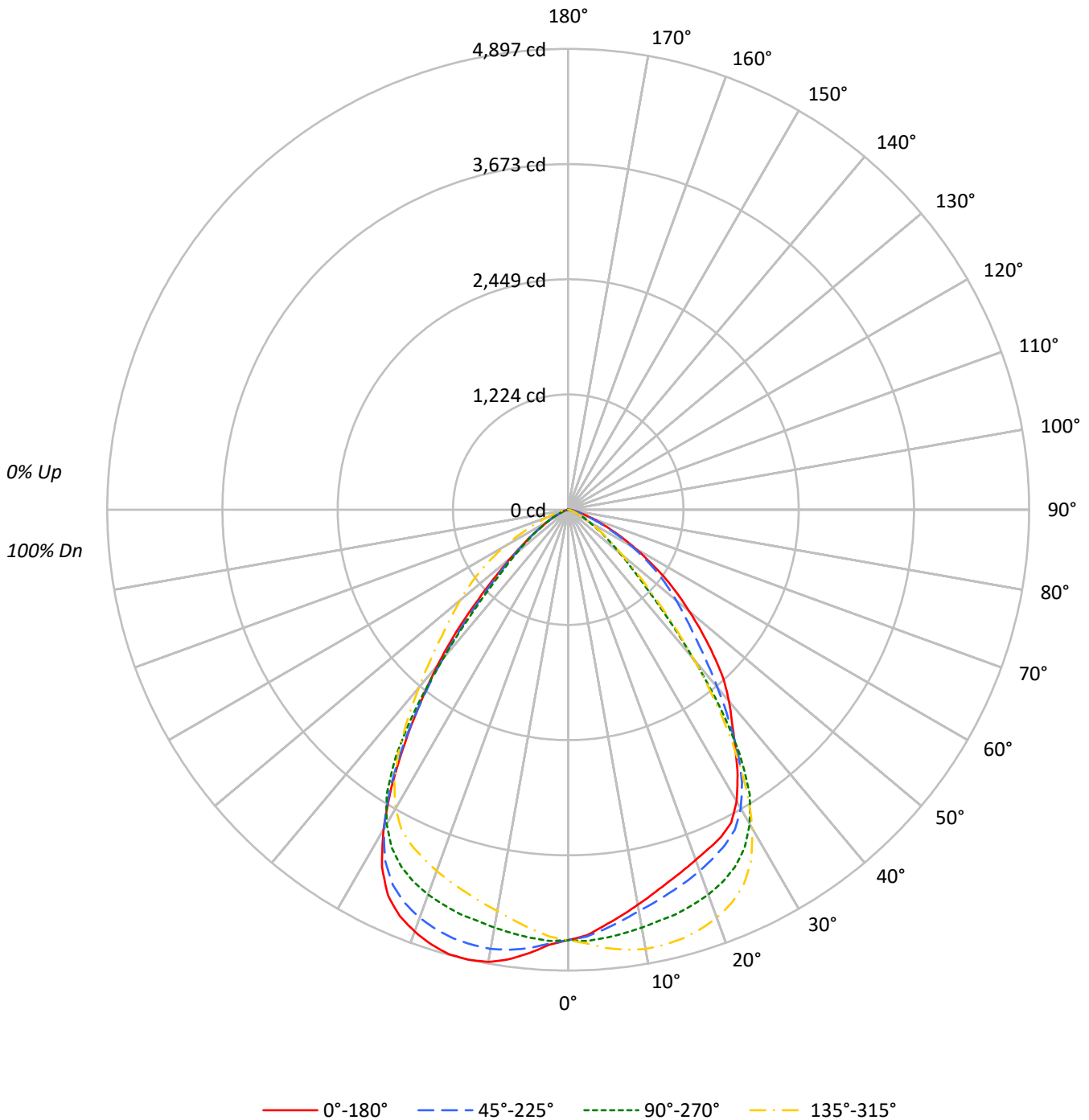
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
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°	435.3	5.7
10°-20°	1260.5	16.4
20°-30°	1908.7	24.8
30°-40°	1913.0	24.8
40°-50°	1201.3	15.6
50°-60°	640.2	8.3
60°-70°	263.2	3.4
70°-80°	69.5	0.9
80°-90°	11.8	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°	3604.5	46.8
0°-40°	5517.5	71.6
0°-60°	7359.0	95.5
0°-90°	7703.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7703.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4573	4573	4573	4573	4573	
5°	4435	4567	4730	4567	4435	418
15°	4098	4448	4890	4448	4098	1159
25°	3839	4189	4526	4189	3839	1761
35°	3095	3182	3019	3182	3095	1939
45°	2179	1166	1349	1166	2179	1676
55°	1239	431	456	431	1239	1105
65°	494	132	121	132	494	512
75°	138	27	22	27	138	157
85°	29	0	2	0	29	32
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°	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3
2.5°	4526.5	4522.0	4519.8	4524.2	4526.5	4535.3	4533.2	4537.6	4537.6	4539.8	4544.3
5°	4434.9	4432.7	4434.9	4434.9	4443.9	4452.7	4450.5	4457.2	4461.7	4472.9	4477.3
7.5°	4350.0	4350.0	4347.8	4356.7	4361.1	4374.6	4372.3	4383.6	4390.3	4401.4	4417.0
10°	4262.9	4262.9	4265.2	4271.8	4274.1	4294.2	4294.2	4309.8	4318.8	4330.0	4350.0
12.5°	4178.1	4178.1	4191.5	4187.0	4195.9	4211.6	4218.2	4233.9	4247.4	4269.7	4289.7
15°	4097.7	4097.7	4102.2	4113.3	4120.0	4140.2	4151.3	4169.2	4184.8	4207.1	4236.1
17.5°	4028.4	4026.3	4028.4	4041.9	4055.3	4073.2	4082.0	4104.4	4120.0	4149.0	4175.8
20°	3959.3	3963.7	3963.7	3974.8	3983.8	4006.1	4015.1	4039.6	4057.5	4084.3	4115.6
22.5°	3899.0	3896.7	3896.7	3912.4	3919.1	3939.1	3948.0	3970.4	3990.5	4012.8	4041.9
25°	3838.6	3834.2	3843.1	3845.4	3849.7	3872.2	3878.8	3894.5	3914.5	3934.7	3963.7
27.5°	3749.3	3744.9	3747.1	3756.0	3762.7	3780.6	3785.1	3800.6	3816.3	3834.2	3858.8
30°	3577.3	3573.0	3570.7	3586.3	3593.0	3606.4	3613.1	3639.9	3644.4	3664.4	3682.3
32.5°	3349.5	3347.4	3351.9	3365.2	3371.9	3389.8	3398.8	3414.3	3425.4	3436.8	3454.6
35°	3095.1	3090.6	3095.1	3108.5	3108.5	3124.1	3130.8	3137.5	3135.2	3137.5	3133.0
37.5°	2858.3	2856.1	2858.3	2865.1	2858.3	2865.1	2858.3	2845.0	2820.4	2793.5	2766.7
40°	2657.3	2659.6	2646.2	2655.2	2630.5	2626.1	2601.6	2568.0	2518.9	2465.3	2389.4
42.5°	2443.0	2436.3	2427.4	2431.8	2411.7	2396.0	2355.9	2313.5	2250.9	2161.6	2070.0
45°	2179.4	2177.3	2172.8	2170.6	2157.1	2141.6	2107.9	2058.9	1989.7	1898.2	1788.7
47.5°	1922.6	1916.0	1916.0	1918.1	1902.6	1900.3	1873.5	1831.2	1770.8	1681.5	1567.6
50°	1677.0	1674.8	1679.3	1688.2	1677.0	1672.5	1654.7	1625.7	1572.1	1496.2	1388.9
52.5°	1456.0	1453.7	1458.2	1469.4	1464.8	1469.4	1451.5	1429.2	1393.4	1319.8	1225.9
55°	1239.4	1239.4	1239.4	1252.7	1252.7	1252.7	1243.7	1230.5	1196.9	1143.3	1056.3
57.5°	1013.8	1016.1	1029.4	1031.7	1029.4	1033.9	1031.7	1018.2	996.0	958.0	891.0
60°	824.0	824.0	830.8	837.4	835.1	837.4	837.4	830.8	808.4	777.2	723.6
62.5°	652.1	658.8	654.2	658.8	667.7	658.8	654.2	649.8	634.3	614.1	569.5
65°	493.5	497.9	497.9	500.2	495.7	497.9	489.1	482.4	473.5	451.1	422.1
67.5°	375.2	375.2	375.2	375.2	372.8	370.7	368.5	361.7	346.2	337.2	305.9
70°	288.1	274.6	274.6	274.6	274.6	276.9	270.3	261.3	256.8	241.2	218.8
72.5°	192.0	196.5	192.0	192.0	187.5	189.8	180.9	176.3	172.0	163.1	149.7
75°	138.4	127.3	131.7	134.0	127.3	131.7	122.7	113.9	113.9	107.2	100.4
77.5°	89.3	87.1	89.3	91.6	89.3	87.1	82.6	78.1	78.1	75.9	69.2
80°	64.8	62.6	62.6	62.6	60.3	62.6	58.1	58.1	53.6	51.3	46.9
82.5°	42.5	42.5	40.1	42.5	40.1	42.5	35.8	35.8	35.8	33.4	29.0
85°	29.0	24.5	24.5	26.8	22.3	26.8	24.5	22.3	20.2	20.2	17.8
87.5°	13.5	15.6	13.5	15.6	13.5	13.5	15.6	13.5	13.5	9.0	9.0
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: P249076

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3
2.5°	4551.0	4553.2	4553.2	4562.2	4566.6	4568.9	4568.9	4586.8	4580.1	4584.6	4588.9
5°	4486.2	4499.6	4504.1	4504.1	4528.6	4537.6	4546.4	4566.6	4568.9	4582.2	4597.9
7.5°	4423.7	4439.3	4448.4	4468.4	4484.0	4499.6	4526.5	4539.8	4553.2	4571.1	4591.2
10°	4363.4	4381.3	4399.1	4414.7	4439.3	4459.5	4477.3	4508.5	4524.2	4548.8	4575.6
12.5°	4305.4	4330.0	4345.6	4372.3	4399.1	4417.0	4443.9	4472.9	4497.5	4522.0	4553.2
15°	4254.0	4283.1	4300.9	4330.0	4359.0	4383.6	4412.6	4448.4	4466.2	4495.2	4524.2
17.5°	4198.1	4229.4	4251.8	4278.5	4314.3	4341.1	4365.7	4401.4	4423.7	4455.0	4488.5
20°	4140.2	4171.4	4198.1	4224.9	4260.7	4287.5	4316.5	4352.3	4376.8	4408.1	4434.9
22.5°	4070.9	4099.9	4128.9	4160.1	4195.9	4218.2	4251.8	4283.1	4309.8	4338.8	4365.7
25°	3981.6	4017.3	4039.6	4068.7	4097.7	4122.3	4158.0	4189.2	4211.6	4238.4	4262.9
27.5°	3876.6	3903.4	3921.3	3945.8	3974.8	3997.3	4023.9	4055.3	4077.6	4102.2	4120.0
30°	3698.0	3722.6	3738.2	3756.0	3785.1	3805.2	3827.5	3856.5	3872.2	3890.0	3905.7
32.5°	3463.4	3483.6	3492.5	3505.9	3526.1	3546.1	3564.0	3588.5	3595.3	3606.4	3606.4
35°	3124.1	3128.5	3126.4	3130.8	3139.7	3150.9	3166.5	3182.1	3191.0	3191.0	3184.4
37.5°	2726.6	2699.8	2670.8	2648.5	2641.7	2637.3	2646.2	2652.8	2661.8	2666.3	2655.2
40°	2313.5	2253.2	2188.4	2130.3	2090.1	2072.3	2065.6	2070.0	2070.0	2085.6	2085.6
42.5°	1958.4	1864.6	1768.6	1681.5	1623.4	1578.8	1558.8	1558.8	1560.9	1572.1	1578.8
45°	1663.7	1545.3	1433.6	1337.7	1257.2	1199.1	1172.3	1165.6	1163.5	1167.9	1183.6
47.5°	1438.1	1315.3	1199.1	1080.9	996.0	937.9	913.4	904.3	895.5	904.3	906.7
50°	1261.7	1134.5	1011.6	893.2	803.9	752.5	721.3	707.8	705.7	705.7	710.2
52.5°	1100.8	982.6	859.8	739.2	645.4	596.3	567.2	560.5	551.5	560.5	560.5
55°	949.0	830.8	710.2	596.3	518.0	466.8	439.9	431.0	426.5	433.2	433.2
57.5°	783.8	683.2	571.7	468.9	390.8	355.0	335.0	323.9	321.5	326.0	321.5
60°	643.1	558.3	462.2	368.5	308.2	270.3	254.6	250.1	245.6	250.1	250.1
62.5°	509.2	437.8	359.5	288.1	236.6	210.0	192.0	192.0	189.8	189.8	192.0
65°	377.4	321.5	265.7	205.5	165.2	145.2	131.7	131.7	129.5	131.7	129.5
67.5°	274.6	236.6	192.0	149.7	118.4	107.2	98.3	91.6	96.1	91.6	89.3
70°	201.0	169.7	138.4	113.9	91.6	80.4	73.8	71.4	67.0	67.0	67.0
72.5°	134.0	113.9	93.7	73.8	60.3	49.1	46.9	42.5	38.0	40.1	44.6
75°	89.3	75.9	67.0	53.6	40.1	40.1	26.8	26.8	22.3	26.8	20.2
77.5°	62.6	51.3	40.1	33.4	26.8	24.5	17.8	17.8	15.6	15.6	15.6
80°	44.6	38.0	29.0	24.5	17.8	17.8	15.6	13.5	11.1	11.1	13.5
82.5°	26.8	20.2	20.2	17.8	11.1	9.0	6.7	9.0	4.5	4.5	4.5
85°	15.6	13.5	11.1	6.7	4.5	4.5	2.2	0.0	2.2	2.2	0.0
87.5°	9.0	4.5	4.5	2.2	0.0	2.2	2.2	0.0	0.0	0.0	4.5
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: P249076

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3
2.5°	4600.1	4597.9	4602.4	4602.4	4615.8	4613.5	4620.2	4620.2	4615.8	4618.0	4626.9
5°	4615.8	4622.6	4635.8	4647.0	4667.1	4676.1	4687.2	4698.4	4700.7	4707.3	4714.0
7.5°	4615.8	4638.1	4653.7	4673.8	4700.7	4716.3	4740.8	4760.9	4769.9	4781.0	4794.4
10°	4606.7	4629.2	4658.2	4680.5	4714.0	4738.6	4763.1	4794.4	4807.9	4825.7	4843.6
12.5°	4588.9	4613.5	4644.8	4673.8	4711.8	4734.1	4765.4	4794.4	4814.5	4839.0	4859.2
15°	4562.2	4591.2	4620.2	4649.2	4689.4	4716.3	4745.3	4778.7	4798.9	4825.7	4843.6
17.5°	4519.8	4551.0	4577.8	4604.6	4642.5	4673.8	4700.7	4731.9	4752.0	4774.3	4798.9
20°	4468.4	4497.5	4526.5	4548.8	4586.8	4613.5	4642.5	4671.5	4687.2	4691.7	4729.7
22.5°	4403.6	4423.7	4446.0	4481.8	4504.1	4528.6	4555.5	4582.2	4597.9	4622.6	4635.8
25°	4296.3	4316.5	4341.1	4356.7	4383.6	4403.6	4430.4	4459.5	4468.4	4486.2	4499.6
27.5°	4146.8	4158.0	4169.2	4182.6	4198.1	4209.4	4224.9	4238.4	4247.4	4256.2	4265.2
30°	3910.0	3910.0	3910.0	3901.2	3907.9	3914.5	3916.8	3914.5	3914.5	3912.4	3912.4
32.5°	3597.5	3579.7	3559.5	3541.7	3535.0	3526.1	3521.5	3514.8	3503.7	3497.0	3499.2
35°	3175.3	3135.2	3110.7	3088.4	3070.5	3057.1	3050.4	3043.6	3041.5	3032.5	3023.6
37.5°	2648.5	2619.4	2601.6	2588.2	2572.5	2559.1	2561.3	2563.6	2570.2	2565.9	2568.0
40°	2090.1	2083.5	2090.1	2074.5	2070.0	2074.5	2085.6	2101.3	2110.3	2119.3	2134.8
42.5°	1589.9	1601.1	1616.8	1616.8	1623.4	1632.4	1645.7	1670.4	1683.7	1699.3	1717.3
45°	1196.9	1210.3	1230.5	1237.1	1241.6	1252.7	1268.4	1288.5	1297.3	1310.8	1326.5
47.5°	922.2	931.2	942.3	953.5	964.6	969.1	984.8	984.8	996.0	1004.9	1009.3
50°	719.0	728.0	736.8	743.6	748.0	754.8	759.3	766.0	768.1	772.6	774.8
52.5°	562.7	574.0	574.0	578.3	585.0	591.8	589.5	591.8	593.9	593.9	600.6
55°	439.9	439.9	446.6	446.6	451.1	448.8	451.1	451.1	451.1	451.1	453.3
57.5°	328.2	330.6	337.2	332.7	330.6	335.0	330.6	335.0	332.7	337.2	330.6
60°	252.3	252.3	254.6	254.6	256.8	256.8	256.8	254.6	254.6	252.3	252.3
62.5°	189.8	192.0	194.3	192.0	192.0	192.0	189.8	189.8	187.5	185.3	185.3
65°	127.3	125.1	129.5	125.1	127.3	127.3	125.1	127.3	120.6	122.7	120.6
67.5°	91.6	89.3	87.1	89.3	87.1	84.9	84.9	87.1	89.3	82.6	82.6
70°	60.3	62.6	60.3	62.6	64.8	64.8	62.6	60.3	62.6	58.1	60.3
72.5°	38.0	38.0	38.0	38.0	38.0	40.1	40.1	40.1	35.8	35.8	33.4
75°	17.8	24.5	20.2	17.8	24.5	24.5	22.3	22.3	20.2	20.2	20.2
77.5°	17.8	13.5	13.5	13.5	13.5	13.5	13.5	13.5	11.1	13.5	11.1
80°	9.0	9.0	9.0	6.7	9.0	9.0	11.1	9.0	9.0	6.7	11.1
82.5°	4.5	4.5	4.5	0.0	2.2	4.5	4.5	2.2	4.5	4.5	2.2
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: P249076

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3
2.5°	4624.7	4622.6	4624.7	4626.9	4624.7	4622.6	4624.7	4626.9	4618.0	4615.8	4620.2
5°	4723.0	4723.0	4727.4	4729.7	4727.4	4723.0	4723.0	4714.0	4707.3	4700.7	4698.4
7.5°	4807.9	4812.3	4816.7	4819.0	4816.7	4812.3	4807.9	4794.4	4781.0	4769.9	4760.9
10°	4859.2	4865.9	4874.8	4879.3	4874.8	4865.9	4859.2	4843.6	4825.7	4807.9	4794.4
12.5°	4881.5	4888.2	4899.3	4897.2	4899.3	4888.2	4881.5	4859.2	4839.0	4814.5	4794.4
15°	4865.9	4874.8	4886.0	4890.5	4886.0	4874.8	4865.9	4843.6	4825.7	4798.9	4778.7
17.5°	4816.7	4830.2	4836.9	4843.6	4836.9	4830.2	4816.7	4798.9	4774.3	4752.0	4731.9
20°	4749.7	4758.8	4767.6	4769.9	4767.6	4758.8	4749.7	4729.7	4691.7	4687.2	4671.5
22.5°	4653.7	4660.4	4680.5	4673.8	4680.5	4660.4	4653.7	4635.8	4622.6	4597.9	4582.2
25°	4515.3	4522.0	4524.2	4526.5	4524.2	4522.0	4515.3	4499.6	4486.2	4468.4	4459.5
27.5°	4276.4	4276.4	4280.8	4283.1	4280.8	4276.4	4276.4	4265.2	4256.2	4247.4	4238.4
30°	3914.5	3914.5	3914.5	3925.7	3914.5	3914.5	3914.5	3912.4	3912.4	3914.5	3914.5
32.5°	3497.0	3492.5	3488.1	3492.5	3488.1	3492.5	3497.0	3499.2	3497.0	3503.7	3514.8
35°	3023.6	3021.3	3028.0	3019.2	3028.0	3021.3	3023.6	3023.6	3032.5	3041.5	3043.6
37.5°	2570.2	2565.9	2574.7	2565.9	2574.7	2565.9	2570.2	2568.0	2565.9	2570.2	2563.6
40°	2139.3	2143.7	2143.7	2161.6	2143.7	2143.7	2139.3	2134.8	2119.3	2110.3	2101.3
42.5°	1726.1	1739.6	1735.1	1748.5	1735.1	1739.6	1726.1	1717.3	1699.3	1683.7	1670.4
45°	1335.3	1344.3	1344.3	1348.8	1344.3	1344.3	1335.3	1326.5	1310.8	1297.3	1288.5
47.5°	1024.9	1024.9	1024.9	1027.3	1024.9	1024.9	1024.9	1009.3	1004.9	996.0	984.8
50°	779.3	781.6	783.8	786.0	783.8	781.6	779.3	774.8	772.6	768.1	766.0
52.5°	598.5	600.6	596.3	600.6	596.3	600.6	598.5	600.6	593.9	593.9	591.8
55°	453.3	451.1	453.3	455.6	453.3	451.1	453.3	453.3	451.1	451.1	451.1
57.5°	332.7	328.2	328.2	328.2	328.2	328.2	332.7	330.6	337.2	332.7	335.0
60°	247.9	250.1	250.1	252.3	250.1	250.1	247.9	252.3	252.3	254.6	254.6
62.5°	183.1	189.8	185.3	189.8	185.3	189.8	183.1	185.3	185.3	187.5	189.8
65°	118.4	118.4	118.4	120.6	118.4	118.4	118.4	120.6	122.7	120.6	127.3
67.5°	80.4	82.6	87.1	84.9	87.1	82.6	80.4	82.6	82.6	89.3	87.1
70°	64.8	58.1	58.1	64.8	58.1	58.1	64.8	60.3	58.1	62.6	60.3
72.5°	38.0	33.4	38.0	38.0	38.0	33.4	38.0	33.4	35.8	35.8	40.1
75°	20.2	17.8	15.6	22.3	15.6	17.8	20.2	20.2	20.2	20.2	22.3
77.5°	13.5	11.1	15.6	15.6	15.6	11.1	13.5	11.1	13.5	11.1	13.5
80°	6.7	9.0	6.7	11.1	6.7	9.0	6.7	11.1	6.7	9.0	9.0
82.5°	2.2	4.5	4.5	4.5	4.5	4.5	2.2	2.2	4.5	4.5	2.2
85°	0.0	4.5	2.2	2.2	2.2	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.0	0.0	2.2	0.0	0.0	2.2	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: P249076

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3
2.5°	4620.2	4613.5	4615.8	4602.4	4602.4	4597.9	4600.1	4588.9	4584.6	4580.1	4586.8
5°	4687.2	4676.1	4667.1	4647.0	4635.8	4622.6	4615.8	4597.9	4582.2	4568.9	4566.6
7.5°	4740.8	4716.3	4700.7	4673.8	4653.7	4638.1	4615.8	4591.2	4571.1	4553.2	4539.8
10°	4763.1	4738.6	4714.0	4680.5	4658.2	4629.2	4606.7	4575.6	4548.8	4524.2	4508.5
12.5°	4765.4	4734.1	4711.8	4673.8	4644.8	4613.5	4588.9	4553.2	4522.0	4497.5	4472.9
15°	4745.3	4716.3	4689.4	4649.2	4620.2	4591.2	4562.2	4524.2	4495.2	4466.2	4448.4
17.5°	4700.7	4673.8	4642.5	4604.6	4577.8	4551.0	4519.8	4488.5	4455.0	4423.7	4401.4
20°	4642.5	4613.5	4586.8	4548.8	4526.5	4497.5	4468.4	4434.9	4408.1	4376.8	4352.3
22.5°	4555.5	4528.6	4504.1	4481.8	4446.0	4423.7	4403.6	4365.7	4338.8	4309.8	4283.1
25°	4430.4	4403.6	4383.6	4356.7	4341.1	4316.5	4296.3	4262.9	4238.4	4211.6	4189.2
27.5°	4224.9	4209.4	4198.1	4182.6	4169.2	4158.0	4146.8	4120.0	4102.2	4077.6	4055.3
30°	3916.8	3914.5	3907.9	3901.2	3910.0	3910.0	3910.0	3905.7	3890.0	3872.2	3856.5
32.5°	3521.5	3526.1	3535.0	3541.7	3559.5	3579.7	3597.5	3606.4	3606.4	3595.3	3588.5
35°	3050.4	3057.1	3070.5	3088.4	3110.7	3135.2	3175.3	3184.4	3191.0	3191.0	3182.1
37.5°	2561.3	2559.1	2572.5	2588.2	2601.6	2619.4	2648.5	2655.2	2666.3	2661.8	2652.8
40°	2085.6	2074.5	2070.0	2074.5	2090.1	2083.5	2090.1	2085.6	2085.6	2070.0	2070.0
42.5°	1645.7	1632.4	1623.4	1616.8	1616.8	1601.1	1589.9	1578.8	1572.1	1560.9	1558.8
45°	1268.4	1252.7	1241.6	1237.1	1230.5	1210.3	1196.9	1183.6	1167.9	1163.5	1165.6
47.5°	984.8	969.1	964.6	953.5	942.3	931.2	922.2	906.7	904.3	895.5	904.3
50°	759.3	754.8	748.0	743.6	736.8	728.0	719.0	710.2	705.7	705.7	707.8
52.5°	589.5	591.8	585.0	578.3	574.0	574.0	562.7	560.5	560.5	551.5	560.5
55°	451.1	448.8	451.1	446.6	446.6	439.9	439.9	433.2	433.2	426.5	431.0
57.5°	330.6	335.0	330.6	332.7	337.2	330.6	328.2	321.5	326.0	321.5	323.9
60°	256.8	256.8	256.8	254.6	254.6	252.3	252.3	250.1	250.1	245.6	250.1
62.5°	189.8	192.0	192.0	192.0	194.3	192.0	189.8	192.0	189.8	189.8	192.0
65°	125.1	127.3	127.3	125.1	129.5	125.1	127.3	129.5	131.7	129.5	131.7
67.5°	84.9	84.9	87.1	89.3	87.1	89.3	91.6	89.3	91.6	96.1	91.6
70°	62.6	64.8	64.8	62.6	60.3	62.6	60.3	67.0	67.0	67.0	71.4
72.5°	40.1	40.1	38.0	38.0	38.0	38.0	38.0	44.6	40.1	38.0	42.5
75°	22.3	24.5	24.5	17.8	20.2	24.5	17.8	20.2	26.8	22.3	26.8
77.5°	13.5	13.5	13.5	13.5	13.5	13.5	17.8	15.6	15.6	15.6	17.8
80°	11.1	9.0	9.0	6.7	9.0	9.0	9.0	13.5	11.1	11.1	13.5
82.5°	4.5	4.5	2.2	0.0	4.5	4.5	4.5	4.5	4.5	4.5	9.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	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: P249076

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3
2.5°	4568.9	4568.9	4566.6	4562.2	4553.2	4553.2	4551.0	4544.3	4539.8	4537.6	4537.6
5°	4546.4	4537.6	4528.6	4504.1	4504.1	4499.6	4486.2	4477.3	4472.9	4461.7	4457.2
7.5°	4526.5	4499.6	4484.0	4468.4	4448.4	4439.3	4423.7	4417.0	4401.4	4390.3	4383.6
10°	4477.3	4459.5	4439.3	4414.7	4399.1	4381.3	4363.4	4350.0	4330.0	4318.8	4309.8
12.5°	4443.9	4417.0	4399.1	4372.3	4345.6	4330.0	4305.4	4289.7	4269.7	4247.4	4233.9
15°	4412.6	4383.6	4359.0	4330.0	4300.9	4283.1	4254.0	4236.1	4207.1	4184.8	4169.2
17.5°	4365.7	4341.1	4314.3	4278.5	4251.8	4229.4	4198.1	4175.8	4149.0	4120.0	4104.4
20°	4316.5	4287.5	4260.7	4224.9	4198.1	4171.4	4140.2	4115.6	4084.3	4057.5	4039.6
22.5°	4251.8	4218.2	4195.9	4160.1	4128.9	4099.9	4070.9	4041.9	4012.8	3990.5	3970.4
25°	4158.0	4122.3	4097.7	4068.7	4039.6	4017.3	3981.6	3963.7	3934.7	3914.5	3894.5
27.5°	4023.9	3997.3	3974.8	3945.8	3921.3	3903.4	3876.6	3858.8	3834.2	3816.3	3800.6
30°	3827.5	3805.2	3785.1	3756.0	3738.2	3722.6	3698.0	3682.3	3664.4	3644.4	3639.9
32.5°	3564.0	3546.1	3526.1	3505.9	3492.5	3483.6	3463.4	3454.6	3436.8	3425.4	3414.3
35°	3166.5	3150.9	3139.7	3130.8	3126.4	3128.5	3124.1	3133.0	3137.5	3135.2	3137.5
37.5°	2646.2	2637.3	2641.7	2648.5	2670.8	2699.8	2726.6	2766.7	2793.5	2820.4	2845.0
40°	2065.6	2072.3	2090.1	2130.3	2188.4	2253.2	2313.5	2389.4	2465.3	2518.9	2568.0
42.5°	1558.8	1578.8	1623.4	1681.5	1768.6	1864.6	1958.4	2070.0	2161.6	2250.9	2313.5
45°	1172.3	1199.1	1257.2	1337.7	1433.6	1545.3	1663.7	1788.7	1898.2	1989.7	2058.9
47.5°	913.4	937.9	996.0	1080.9	1199.1	1315.3	1438.1	1567.6	1681.5	1770.8	1831.2
50°	721.3	752.5	803.9	893.2	1011.6	1134.5	1261.7	1388.9	1496.2	1572.1	1625.7
52.5°	567.2	596.3	645.4	739.2	859.8	982.6	1100.8	1225.9	1319.8	1393.4	1429.2
55°	439.9	466.8	518.0	596.3	710.2	830.8	949.0	1056.3	1143.3	1196.9	1230.5
57.5°	335.0	355.0	390.8	468.9	571.7	683.2	783.8	891.0	958.0	996.0	1018.2
60°	254.6	270.3	308.2	368.5	462.2	558.3	643.1	723.6	777.2	808.4	830.8
62.5°	192.0	210.0	236.6	288.1	359.5	437.8	509.2	569.5	614.1	634.3	649.8
65°	131.7	145.2	165.2	205.5	265.7	321.5	377.4	422.1	451.1	473.5	482.4
67.5°	98.3	107.2	118.4	149.7	192.0	236.6	274.6	305.9	337.2	346.2	361.7
70°	73.8	80.4	91.6	113.9	138.4	169.7	201.0	218.8	241.2	256.8	261.3
72.5°	46.9	49.1	60.3	73.8	93.7	113.9	134.0	149.7	163.1	172.0	176.3
75°	26.8	40.1	40.1	53.6	67.0	75.9	89.3	100.4	107.2	113.9	113.9
77.5°	17.8	24.5	26.8	33.4	40.1	51.3	62.6	69.2	75.9	78.1	78.1
80°	15.6	17.8	17.8	24.5	29.0	38.0	44.6	46.9	51.3	53.6	58.1
82.5°	6.7	9.0	11.1	17.8	20.2	20.2	26.8	29.0	33.4	35.8	35.8
85°	2.2	4.5	4.5	6.7	11.1	13.5	15.6	17.8	20.2	20.2	22.3
87.5°	2.2	2.2	0.0	2.2	4.5	4.5	9.0	9.0	9.0	13.5	13.5
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: P249076

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3	4573.3
2.5°	4533.2	4535.3	4526.5	4524.2	4519.8	4522.0	4526.5
5°	4450.5	4452.7	4443.9	4434.9	4434.9	4432.7	4434.9
7.5°	4372.3	4374.6	4361.1	4356.7	4347.8	4350.0	4350.0
10°	4294.2	4294.2	4274.1	4271.8	4265.2	4262.9	4262.9
12.5°	4218.2	4211.6	4195.9	4187.0	4191.5	4178.1	4178.1
15°	4151.3	4140.2	4120.0	4113.3	4102.2	4097.7	4097.7
17.5°	4082.0	4073.2	4055.3	4041.9	4028.4	4026.3	4028.4
20°	4015.1	4006.1	3983.8	3974.8	3963.7	3963.7	3959.3
22.5°	3948.0	3939.1	3919.1	3912.4	3896.7	3896.7	3899.0
25°	3878.8	3872.2	3849.7	3845.4	3843.1	3834.2	3838.6
27.5°	3785.1	3780.6	3762.7	3756.0	3747.1	3744.9	3749.3
30°	3613.1	3606.4	3593.0	3586.3	3570.7	3573.0	3577.3
32.5°	3398.8	3389.8	3371.9	3365.2	3351.9	3347.4	3349.5
35°	3130.8	3124.1	3108.5	3108.5	3095.1	3090.6	3095.1
37.5°	2858.3	2865.1	2858.3	2865.1	2858.3	2856.1	2858.3
40°	2601.6	2626.1	2630.5	2655.2	2646.2	2659.6	2657.3
42.5°	2355.9	2396.0	2411.7	2431.8	2427.4	2436.3	2443.0
45°	2107.9	2141.6	2157.1	2170.6	2172.8	2177.3	2179.4
47.5°	1873.5	1900.3	1902.6	1918.1	1916.0	1916.0	1922.6
50°	1654.7	1672.5	1677.0	1688.2	1679.3	1674.8	1677.0
52.5°	1451.5	1469.4	1464.8	1469.4	1458.2	1453.7	1456.0
55°	1243.7	1252.7	1252.7	1252.7	1239.4	1239.4	1239.4
57.5°	1031.7	1033.9	1029.4	1031.7	1029.4	1016.1	1013.8
60°	837.4	837.4	835.1	837.4	830.8	824.0	824.0
62.5°	654.2	658.8	667.7	658.8	654.2	658.8	652.1
65°	489.1	497.9	495.7	500.2	497.9	497.9	493.5
67.5°	368.5	370.7	372.8	375.2	375.2	375.2	375.2
70°	270.3	276.9	274.6	274.6	274.6	274.6	288.1
72.5°	180.9	189.8	187.5	192.0	192.0	196.5	192.0
75°	122.7	131.7	127.3	134.0	131.7	127.3	138.4
77.5°	82.6	87.1	89.3	91.6	89.3	87.1	89.3
80°	58.1	62.6	60.3	62.6	62.6	62.6	64.8
82.5°	35.8	42.5	40.1	42.5	40.1	42.5	42.5
85°	24.5	26.8	22.3	26.8	24.5	24.5	29.0
87.5°	15.6	13.5	13.5	15.6	13.5	15.6	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)