

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: P249770

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80927 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6931.1 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

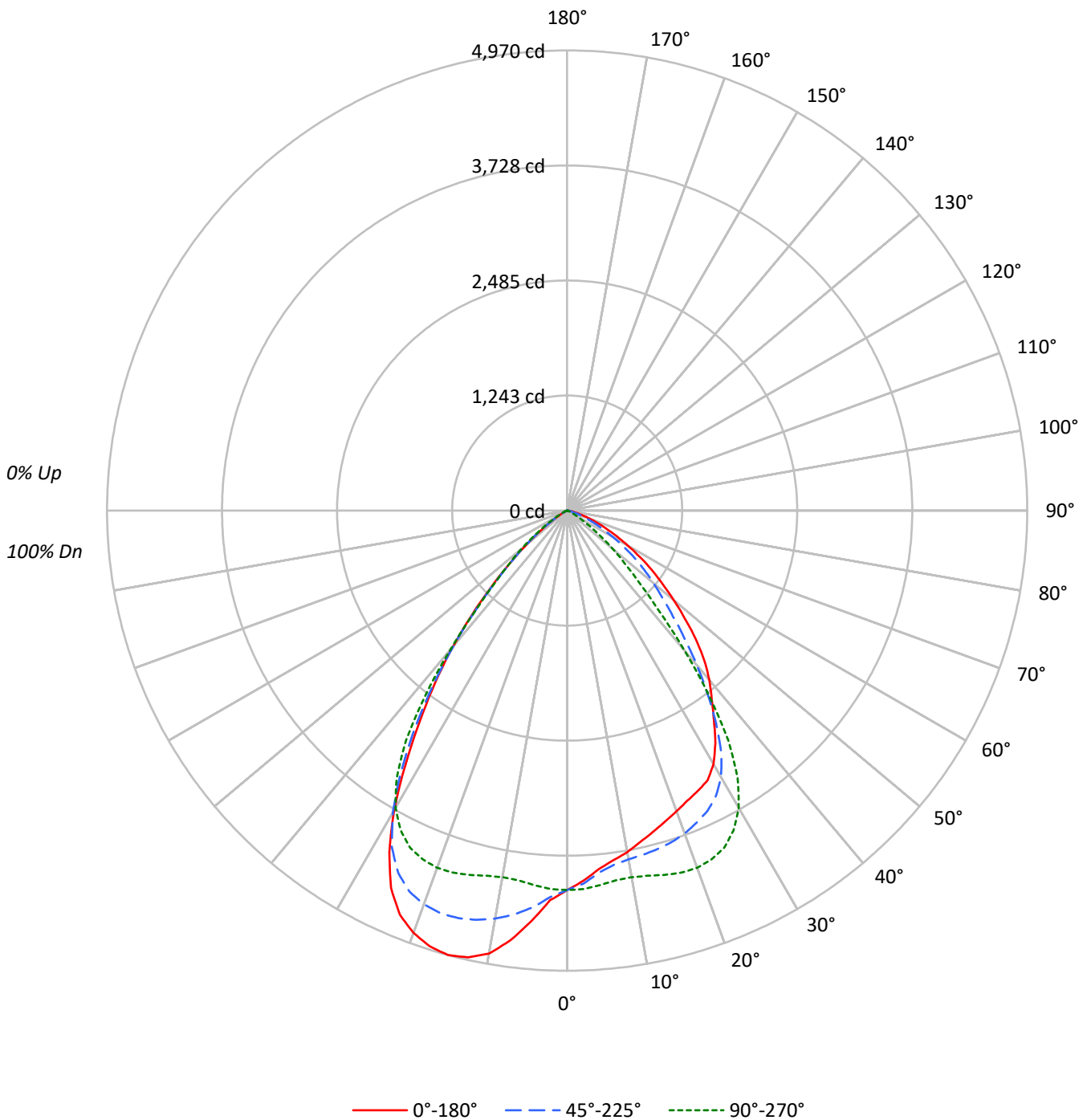
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	394.0	5.7
10°-20°	1179.2	17.0
20°-30°	1805.8	26.1
30°-40°	1770.3	25.5
40°-50°	1066.1	15.4
50°-60°	490.7	7.1
60°-70°	172.4	2.5
70°-80°	45.1	0.7
80°-90°	7.7	0.1
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°	3379.0	48.8
0°-40°	5149.2	74.3
0°-60°	6706.0	96.8
0°-90°	6931.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6931.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4098	4098	4098	4098	4098	
5°	3890	3926	4060	4303	4451	367
15°	3591	3784	4074	4556	4970	1015
25°	3340	3581	4016	4319	4499	1538
35°	2764	2802	3034	2859	2767	1731
45°	1963	1616	1096	1103	1132	1505
55°	1115	883	314	247	238	995
65°	473	328	50	25	27	482
75°	123	71	4	0	0	149
85°	19	10	2	0	0	26
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°	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4
2.5°	4002.6	4006.5	4006.5	4006.5	4014.1	4016.1	4014.1	4016.1	4019.8	4033.2	4039.0
5°	3889.7	3884.0	3887.8	3885.8	3895.4	3901.2	3897.3	3903.1	3916.5	3926.0	3935.6
7.5°	3809.2	3809.2	3809.2	3813.1	3818.8	3830.3	3828.4	3832.2	3845.6	3859.0	3872.4
10°	3746.0	3744.1	3744.1	3753.7	3761.3	3774.7	3778.5	3790.1	3807.2	3824.6	3839.8
12.5°	3663.7	3665.6	3675.2	3684.8	3701.9	3723.0	3734.6	3749.8	3776.7	3805.4	3822.6
15°	3590.9	3592.8	3600.4	3619.6	3640.7	3665.6	3690.4	3715.3	3747.9	3784.4	3815.0
17.5°	3520.0	3521.9	3527.7	3548.8	3575.6	3608.1	3636.9	3669.4	3711.6	3753.7	3792.0
20°	3454.9	3453.0	3462.5	3481.8	3516.2	3546.8	3575.6	3614.0	3659.8	3711.6	3755.6
22.5°	3391.6	3391.6	3401.3	3420.4	3451.2	3481.8	3512.4	3552.5	3598.5	3648.4	3700.0
25°	3340.0	3338.1	3351.5	3361.0	3384.0	3414.7	3447.2	3479.8	3525.8	3581.3	3631.0
27.5°	3284.4	3282.6	3284.4	3296.0	3317.1	3340.0	3364.9	3393.7	3431.9	3477.9	3525.8
30°	3161.9	3163.8	3163.8	3173.4	3184.9	3209.7	3223.1	3251.9	3286.4	3324.7	3366.9
32.5°	2980.0	2981.8	2981.8	2985.8	2995.3	3006.8	3018.3	3039.3	3066.1	3098.7	3137.0
35°	2763.6	2763.6	2761.6	2763.6	2769.3	2769.3	2778.9	2769.3	2782.7	2801.9	2830.6
37.5°	2564.3	2560.5	2556.8	2552.8	2547.1	2537.5	2524.2	2501.2	2495.4	2487.7	2489.6
40°	2388.2	2386.4	2374.8	2365.2	2346.1	2323.1	2290.5	2250.3	2217.8	2179.5	2147.0
42.5°	2192.8	2190.9	2181.4	2164.0	2143.0	2108.6	2056.8	2003.3	1938.2	1880.7	1821.4
45°	1963.0	1968.8	1955.4	1936.2	1911.3	1878.8	1821.4	1756.1	1691.0	1616.4	1541.7
47.5°	1723.6	1721.7	1712.1	1700.7	1679.6	1647.0	1608.8	1537.9	1468.9	1400.0	1323.3
50°	1501.4	1493.8	1490.0	1478.5	1465.1	1438.3	1398.0	1340.6	1279.4	1214.2	1143.3
52.5°	1290.8	1290.8	1281.1	1273.6	1262.0	1241.0	1206.6	1160.6	1108.9	1047.6	972.9
55°	1114.6	1110.8	1101.3	1091.6	1080.1	1066.7	1036.1	997.8	942.2	882.9	817.8
57.5°	927.0	925.0	921.2	909.7	903.9	890.6	856.1	817.8	769.9	718.2	664.5
60°	758.4	750.7	743.1	735.4	725.8	712.5	689.4	656.9	616.7	570.7	517.2
62.5°	607.2	618.5	595.6	595.6	576.4	565.0	543.9	524.8	482.6	440.6	394.5
65°	473.1	473.1	463.4	455.7	444.3	430.9	409.8	390.7	360.0	327.5	294.9
67.5°	362.0	360.0	350.4	342.8	333.2	325.6	310.3	287.2	264.3	237.5	210.6
70°	266.2	264.3	262.3	249.0	241.3	231.8	220.3	205.0	187.6	168.5	143.7
72.5°	191.5	191.5	185.8	180.0	172.4	164.7	153.2	143.7	128.4	115.0	97.6
75°	122.6	120.7	120.7	111.0	111.0	99.6	91.9	86.2	78.5	70.9	55.6
77.5°	88.1	86.2	84.3	80.4	76.6	72.8	67.0	59.4	53.6	46.0	40.2
80°	59.4	55.6	53.6	53.6	47.8	46.0	47.8	36.4	34.4	28.7	24.9
82.5°	36.4	36.4	34.4	34.4	32.5	30.7	24.9	24.9	23.1	21.0	17.2
85°	19.1	24.9	17.2	19.1	17.2	19.1	17.2	13.4	11.5	9.6	9.6
87.5°	11.5	7.6	7.6	11.5	9.6	7.6	7.6	7.6	5.7	3.8	3.8
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°	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4
2.5°	4035.3	4048.6	4046.6	4064.0	4069.7	4083.1	4083.1	4092.6	4098.4	4111.8	4123.3
5°	3939.5	3960.6	3966.3	3987.3	4004.6	4025.6	4039.0	4060.1	4079.2	4108.0	4134.8
7.5°	3880.1	3897.3	3908.8	3933.7	3952.9	3975.9	3998.8	4027.5	4054.3	4088.8	4127.2
10°	3851.3	3874.4	3891.5	3916.5	3939.5	3964.4	3987.3	4019.8	4050.6	4094.6	4136.7
12.5°	3843.7	3870.4	3891.5	3926.0	3949.0	3975.9	4002.6	4039.0	4071.6	4117.5	4165.4
15°	3843.7	3880.1	3908.8	3947.1	3974.0	4008.4	4037.2	4073.5	4109.8	4157.8	4203.7
17.5°	3836.0	3880.1	3916.5	3960.6	3995.0	4029.5	4065.9	4100.4	4138.5	4184.7	4236.3
20°	3805.4	3861.0	3905.0	3956.6	3993.1	4031.4	4067.8	4106.0	4146.3	4194.1	4238.2
22.5°	3751.8	3816.9	3866.7	3922.2	3964.4	4002.6	4039.0	4077.3	4121.4	4167.3	4213.3
25°	3680.9	3742.2	3795.9	3853.2	3895.4	3937.5	3972.0	4016.1	4056.3	4100.4	4136.7
27.5°	3573.7	3638.7	3690.4	3749.8	3788.1	3828.4	3857.1	3893.5	3931.9	3968.2	3996.9
30°	3412.8	3472.2	3525.8	3579.4	3617.7	3646.5	3677.1	3705.9	3730.7	3755.6	3780.4
32.5°	3177.2	3230.9	3282.6	3332.4	3363.0	3387.9	3410.9	3428.1	3441.5	3454.9	3456.8
35°	2853.6	2897.5	2930.2	2974.2	3003.0	3025.9	3025.9	3033.6	3031.6	3025.9	3020.2
37.5°	2491.6	2508.8	2522.2	2539.5	2541.4	2541.4	2529.9	2520.3	2505.0	2501.2	2489.6
40°	2114.3	2091.4	2074.0	2051.1	2037.7	2008.9	1984.2	1966.8	1942.0	1938.2	1934.3
42.5°	1756.1	1702.6	1654.6	1614.5	1568.6	1528.2	1491.9	1465.1	1446.0	1443.9	1446.0
45°	1465.1	1403.8	1332.9	1277.4	1225.7	1175.9	1128.0	1095.5	1078.2	1074.4	1078.2
47.5°	1244.8	1174.0	1105.0	1041.8	986.3	930.7	882.9	838.8	817.8	812.0	810.1
50°	1070.6	997.8	925.0	859.8	798.6	743.1	683.7	641.6	614.8	605.1	597.5
52.5°	900.1	835.1	760.3	693.3	632.0	566.9	505.6	457.6	430.9	419.4	411.8
55°	750.7	685.7	616.7	551.6	486.4	421.3	360.0	314.1	285.4	271.9	262.3
57.5°	599.4	538.2	478.8	413.7	360.0	296.9	235.6	195.3	170.4	155.1	147.5
60°	463.4	415.6	363.8	310.3	258.5	206.9	157.0	118.7	99.6	88.1	78.5
62.5°	350.4	310.3	275.7	229.8	189.6	145.5	107.3	76.6	59.4	49.8	46.0
65°	252.8	222.2	191.5	162.8	134.1	101.6	72.8	49.8	34.4	28.7	26.8
67.5°	180.0	155.1	132.1	113.0	91.9	72.8	51.8	34.4	26.8	23.1	21.0
70°	126.3	107.3	91.9	74.7	61.2	47.8	40.2	24.9	15.3	17.2	13.4
72.5°	84.3	70.9	63.2	51.8	42.1	34.4	24.9	17.2	17.2	13.4	11.5
75°	46.0	42.1	32.5	24.9	21.0	19.1	7.6	3.8	1.9	5.7	1.9
77.5°	32.5	28.7	24.9	21.0	17.2	13.4	7.6	7.6	5.7	7.6	3.8
80°	21.0	17.2	15.3	15.3	9.6	5.7	3.8	3.8	5.7	1.9	1.9
82.5°	13.4	11.5	9.6	9.6	9.6	5.7	5.7	5.7	5.7	3.8	3.8
85°	7.6	5.7	3.8	3.8	1.9	3.8	0.0	1.9	1.9	0.0	0.0
87.5°	3.8	1.9	1.9	1.9	1.9	0.0	0.0	1.9	0.0	1.9	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4	4098.4
2.5°	4131.0	4138.5	4148.2	4155.9	4173.1	4176.9	4184.7	4192.3	4198.0	4203.7	4205.7
5°	4157.8	4186.6	4213.3	4242.0	4278.5	4303.3	4332.0	4356.9	4381.9	4402.9	4418.2
7.5°	4165.4	4209.4	4249.7	4299.5	4353.1	4399.1	4447.0	4494.8	4544.7	4582.9	4615.5
10°	4180.7	4234.4	4286.0	4345.4	4414.4	4475.7	4535.0	4598.2	4661.4	4715.1	4763.0
12.5°	4207.6	4266.9	4322.5	4387.6	4458.5	4527.3	4592.5	4663.3	4730.4	4789.8	4843.3
15°	4251.6	4307.2	4360.8	4422.0	4492.9	4556.1	4621.3	4690.1	4757.3	4818.5	4868.3
17.5°	4280.3	4332.0	4385.6	4441.2	4500.6	4558.0	4619.2	4680.6	4741.9	4797.4	4843.3
20°	4280.3	4330.1	4370.4	4420.1	4475.7	4525.5	4575.3	4628.9	4682.5	4728.5	4772.6
22.5°	4245.9	4293.7	4324.4	4362.8	4410.6	4452.8	4479.5	4538.9	4579.1	4619.2	4651.9
25°	4165.4	4200.0	4224.8	4251.6	4290.0	4318.7	4341.6	4376.1	4416.3	4431.7	4454.7
27.5°	4019.8	4044.8	4058.2	4064.0	4083.1	4098.4	4102.2	4117.5	4134.8	4138.5	4148.2
30°	3790.1	3792.0	3786.2	3784.4	3774.7	3763.2	3761.3	3759.4	3751.8	3744.1	3746.0
32.5°	3443.4	3433.8	3410.9	3386.0	3361.0	3334.3	3319.0	3299.7	3288.3	3276.8	3263.4
35°	2995.3	2972.4	2939.7	2909.1	2880.5	2859.3	2824.9	2813.3	2801.9	2786.5	2782.7
37.5°	2468.6	2455.2	2424.5	2401.6	2386.4	2376.7	2359.5	2348.0	2348.0	2342.2	2338.4
40°	1924.6	1920.9	1909.4	1915.2	1907.6	1911.3	1909.4	1905.5	1915.2	1915.2	1919.0
42.5°	1443.9	1446.0	1451.7	1455.5	1467.0	1468.9	1478.5	1478.5	1484.2	1490.0	1493.8
45°	1074.4	1082.1	1082.1	1089.7	1101.3	1103.2	1106.9	1108.9	1112.6	1122.3	1126.1
47.5°	806.3	808.2	808.2	810.1	813.9	817.8	815.8	817.8	823.5	819.7	823.5
50°	595.6	597.5	591.8	586.0	591.8	591.8	589.8	584.1	589.8	582.2	586.0
52.5°	406.0	404.1	398.4	400.3	396.4	394.5	394.5	390.7	390.7	390.7	383.1
55°	256.6	256.6	252.8	252.8	250.9	247.0	245.1	243.2	241.3	239.4	239.4
57.5°	143.7	145.5	139.8	137.9	139.8	137.9	134.1	134.1	134.1	128.4	132.1
60°	78.5	76.6	74.7	72.8	70.9	72.8	72.8	69.0	69.0	69.0	70.9
62.5°	42.1	42.1	40.2	40.2	38.4	38.4	42.1	36.4	38.4	36.4	38.4
65°	23.1	28.7	21.0	21.0	26.8	24.9	23.1	23.1	24.9	21.0	23.1
67.5°	24.9	17.2	15.3	17.2	15.3	15.3	15.3	19.1	17.2	13.4	17.2
70°	11.5	13.4	13.4	9.6	15.3	7.6	13.4	7.6	11.5	9.6	11.5
72.5°	11.5	11.5	11.5	7.6	11.5	7.6	9.6	9.6	7.6	7.6	11.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.8	3.8	1.9	1.9	1.9	1.9	3.8	3.8	3.8	0.0	1.9
80°	3.8	3.8	0.0	1.9	0.0	0.0	1.9	0.0	1.9	0.0	3.8
82.5°	1.9	3.8	1.9	1.9	3.8	3.8	3.8	1.9	1.9	1.9	1.9
85°	0.0	1.9	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	1.9
87.5°	0.0	1.9	0.0	0.0	0.0	0.0	1.9	1.9	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: P249770

CATALOG NUMBER: LSR8B80D010 EC8B80927 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4098.4	4098.4	4098.4	4098.4
2.5°	4207.6	4209.4	4213.3	4211.4
5°	4429.7	4445.1	4452.8	4450.8
7.5°	4638.5	4665.4	4680.6	4680.6
10°	4799.4	4830.0	4852.9	4856.8
12.5°	4885.5	4920.1	4950.7	4942.9
15°	4910.4	4944.9	4975.5	4969.8
17.5°	4881.7	4916.1	4939.2	4935.3
20°	4803.2	4831.9	4854.9	4852.9
22.5°	4680.6	4705.5	4724.7	4722.8
25°	4473.8	4491.0	4506.3	4498.7
27.5°	4155.9	4161.6	4171.2	4159.7
30°	3732.6	3736.5	3740.3	3738.4
32.5°	3257.7	3255.8	3251.9	3248.1
35°	2777.0	2777.0	2778.9	2767.4
37.5°	2340.2	2338.4	2344.2	2338.4
40°	1922.7	1920.9	1928.6	1919.0
42.5°	1499.5	1505.4	1507.2	1507.2
45°	1128.0	1130.0	1131.9	1131.9
47.5°	823.5	825.4	835.1	823.5
50°	582.2	584.1	586.0	582.2
52.5°	385.0	386.9	385.0	379.1
55°	235.6	237.5	237.5	237.5
57.5°	126.3	128.4	128.4	126.3
60°	69.0	67.0	69.0	65.1
62.5°	36.4	40.2	38.4	34.4
65°	23.1	23.1	23.1	26.8
67.5°	19.1	15.3	17.2	13.4
70°	11.5	13.4	13.4	9.6
72.5°	9.6	9.6	9.6	11.5
75°	0.0	0.0	0.0	0.0
77.5°	3.8	3.8	3.8	1.9
80°	1.9	0.0	1.9	0.0
82.5°	1.9	1.9	3.8	1.9
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)