

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: P249777

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249777
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 EC8B80930 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7306.7 lumens
Efficiency: N/A
Efficacy: 98.2 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

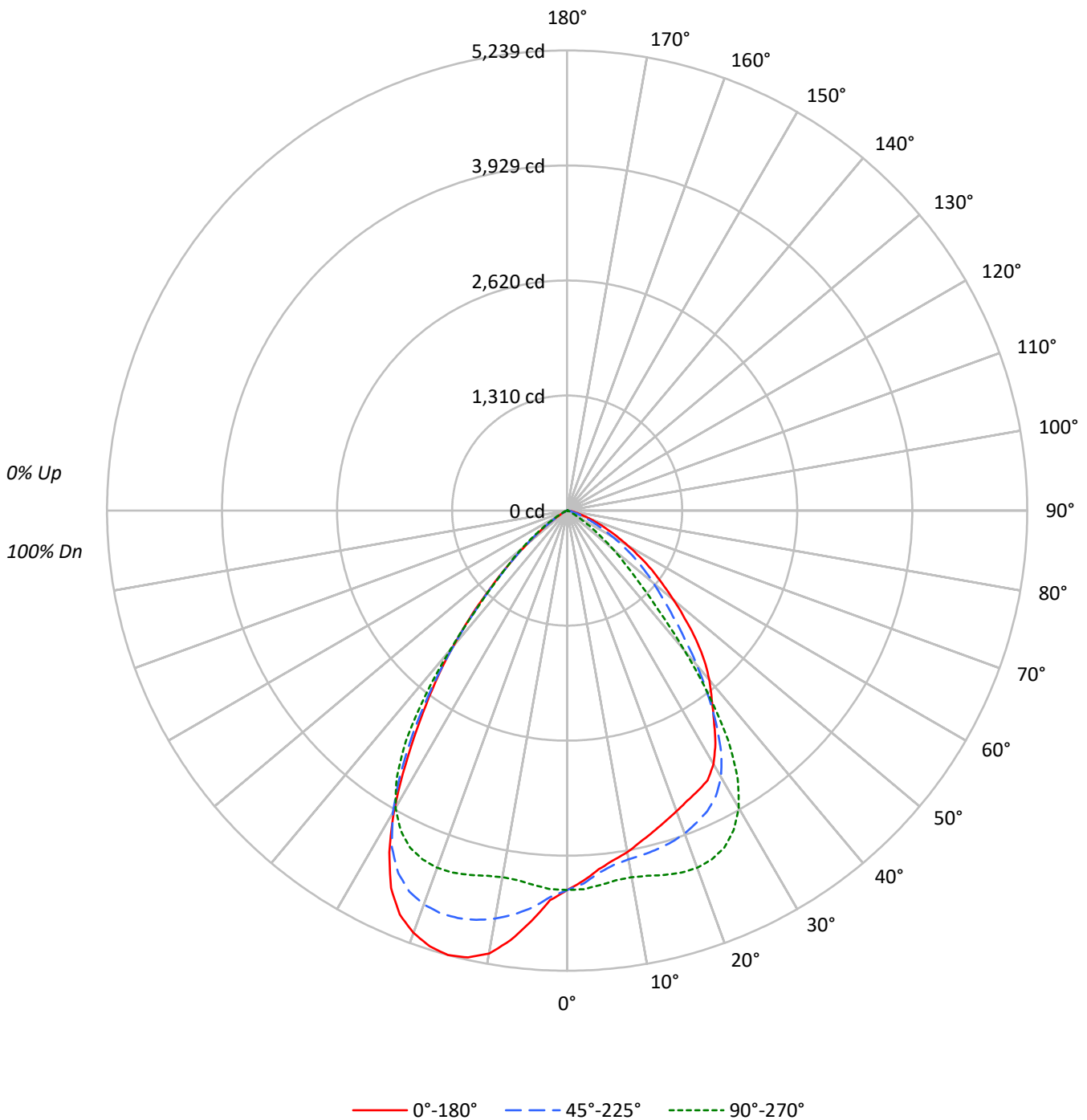
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	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°	415.3	5.7
10°-20°	1243.1	17.0
20°-30°	1903.6	26.1
30°-40°	1866.2	25.5
40°-50°	1123.8	15.4
50°-60°	517.3	7.1
60°-70°	181.7	2.5
70°-80°	47.5	0.7
80°-90°	8.1	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°	3562.0	48.8
0°-40°	5428.3	74.3
0°-60°	7069.3	96.8
0°-90°	7306.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7306.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4320	4320	4320	4320	4320	
5°	4100	4139	4280	4536	4692	387
15°	3786	3989	4294	4803	5239	1069
25°	3521	3775	4234	4553	4742	1622
35°	2913	2954	3198	3014	2917	1825
45°	2069	1704	1155	1163	1193	1587
55°	1175	931	331	260	250	1048
65°	499	345	53	26	28	508
75°	129	75	4	0	0	157
85°	20	10	2	0	0	28
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°	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4
2.5°	4219.4	4223.6	4223.6	4223.6	4231.7	4233.7	4231.7	4233.7	4237.7	4251.8	4257.9
5°	4100.4	4094.3	4098.4	4096.4	4106.4	4112.5	4108.5	4114.5	4128.6	4138.8	4148.8
7.5°	4015.6	4015.6	4015.6	4019.7	4025.7	4037.8	4035.8	4039.9	4054.0	4068.1	4082.2
10°	3948.9	3947.0	3947.0	3957.0	3965.1	3979.2	3983.4	3995.5	4013.5	4031.8	4047.9
12.5°	3862.2	3864.2	3874.3	3884.4	3902.5	3924.7	3936.8	3953.1	3981.3	4011.6	4029.8
15°	3785.5	3787.4	3795.6	3815.7	3838.0	3864.2	3890.4	3916.7	3951.0	3989.4	4021.7
17.5°	3710.7	3712.8	3718.8	3741.1	3769.4	3803.7	3833.9	3868.2	3912.6	3957.0	3997.5
20°	3642.1	3640.1	3650.2	3670.4	3706.8	3739.0	3769.4	3809.7	3858.1	3912.6	3959.0
22.5°	3575.4	3575.4	3585.6	3605.8	3638.1	3670.4	3702.7	3745.0	3793.5	3846.0	3900.5
25°	3520.9	3518.9	3533.1	3543.3	3567.4	3599.8	3634.1	3668.4	3716.8	3775.4	3827.9
27.5°	3462.4	3460.4	3462.4	3474.5	3496.7	3520.9	3547.2	3577.6	3617.9	3666.3	3716.8
30°	3333.2	3335.2	3335.2	3345.4	3357.5	3383.6	3397.8	3428.1	3464.5	3504.8	3549.3
32.5°	3141.4	3143.4	3143.4	3147.5	3157.5	3169.7	3181.8	3204.0	3232.3	3266.6	3307.0
35°	2913.4	2913.4	2911.2	2913.4	2919.4	2919.4	2929.4	2919.4	2933.5	2953.7	2984.0
37.5°	2703.3	2699.3	2695.2	2691.2	2685.1	2675.0	2660.9	2636.7	2630.7	2622.6	2624.6
40°	2517.7	2515.6	2503.4	2493.3	2473.2	2448.9	2414.6	2372.3	2338.0	2297.6	2263.2
42.5°	2311.7	2309.6	2299.5	2281.3	2259.2	2222.8	2168.4	2111.9	2043.1	1982.6	1920.0
45°	2069.4	2075.4	2061.3	2041.1	2014.9	1980.5	1920.0	1851.3	1782.6	1703.9	1625.2
47.5°	1817.0	1815.0	1804.9	1792.8	1770.6	1736.3	1696.0	1621.2	1548.4	1475.9	1395.1
50°	1582.9	1574.8	1570.6	1558.6	1544.5	1516.3	1473.8	1413.2	1348.7	1280.0	1205.3
52.5°	1360.8	1360.8	1350.6	1342.5	1330.4	1308.2	1271.9	1223.5	1169.0	1104.3	1025.6
55°	1175.0	1171.0	1160.9	1150.8	1138.6	1124.5	1092.3	1051.8	993.3	930.8	862.0
57.5°	977.2	975.0	971.1	959.0	953.0	938.7	902.5	862.0	811.6	757.1	700.5
60°	799.5	791.4	783.4	775.3	765.2	751.1	726.7	692.4	650.1	601.6	545.1
62.5°	640.1	652.1	627.9	627.9	607.7	595.6	573.4	553.2	508.7	464.3	415.9
65°	498.7	498.7	488.5	480.5	468.4	454.2	432.0	411.9	379.6	345.2	310.9
67.5°	381.6	379.6	369.5	361.4	351.2	343.3	327.1	302.8	278.7	250.4	222.1
70°	280.6	278.7	276.6	262.4	254.4	244.3	232.2	216.0	197.9	177.7	151.4
72.5°	201.9	201.9	195.8	189.8	181.7	173.6	161.5	151.4	135.3	121.2	102.9
75°	129.3	127.2	127.2	117.0	117.0	104.9	96.9	90.8	82.7	74.7	58.6
77.5°	92.9	90.8	88.8	84.7	80.8	76.7	70.6	62.6	56.5	48.4	42.4
80°	62.6	58.6	56.5	56.5	50.4	48.4	50.4	38.3	36.3	30.3	26.2
82.5°	38.3	38.3	36.3	36.3	34.3	32.3	26.2	26.2	24.2	22.2	18.2
85°	20.2	26.2	18.2	20.2	18.2	20.2	18.2	14.1	12.1	10.1	10.1
87.5°	12.1	8.1	8.1	12.1	10.1	8.1	8.1	8.1	6.1	4.0	4.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4
2.5°	4253.9	4268.0	4266.0	4284.1	4290.2	4304.3	4304.3	4314.4	4320.4	4334.6	4346.7
5°	4153.0	4175.2	4181.2	4203.4	4221.6	4243.8	4257.9	4280.1	4300.3	4330.6	4358.9
7.5°	4090.3	4108.5	4120.6	4146.8	4167.1	4191.2	4215.5	4245.8	4274.0	4310.4	4350.8
10°	4060.0	4084.3	4102.4	4128.6	4153.0	4179.2	4203.4	4237.7	4270.0	4316.4	4360.8
12.5°	4052.0	4080.2	4102.4	4138.8	4162.9	4191.2	4219.4	4257.9	4292.2	4340.6	4391.2
15°	4052.0	4090.3	4120.6	4161.0	4189.3	4225.6	4255.9	4294.2	4332.6	4383.0	4431.4
17.5°	4043.9	4090.3	4128.6	4175.2	4211.4	4247.8	4286.1	4322.6	4362.8	4411.4	4465.8
20°	4011.6	4070.1	4116.5	4171.0	4209.5	4249.8	4288.2	4328.5	4371.0	4421.4	4467.9
22.5°	3955.1	4023.7	4076.2	4134.7	4179.2	4219.4	4257.9	4298.3	4344.8	4393.2	4441.6
25°	3880.3	3944.9	4001.5	4062.1	4106.4	4150.8	4187.3	4233.7	4276.1	4322.6	4360.8
27.5°	3767.2	3835.9	3890.4	3953.1	3993.3	4035.8	4066.1	4104.4	4144.9	4183.1	4213.5
30°	3597.7	3660.3	3716.8	3773.3	3813.8	3844.0	3876.3	3906.6	3932.9	3959.0	3985.3
32.5°	3349.3	3405.9	3460.4	3512.9	3545.2	3571.5	3595.6	3613.9	3628.0	3642.1	3644.1
35°	3008.2	3054.6	3088.9	3135.3	3165.7	3189.9	3189.9	3198.0	3196.0	3189.9	3183.9
37.5°	2626.6	2644.8	2658.9	2677.1	2679.1	2679.1	2667.0	2656.9	2640.7	2636.7	2624.6
40°	2228.9	2204.7	2186.4	2162.3	2148.2	2117.8	2091.7	2073.4	2047.2	2043.1	2039.1
42.5°	1851.3	1794.8	1744.4	1702.0	1653.5	1611.1	1572.8	1544.5	1524.3	1522.2	1524.3
45°	1544.5	1479.8	1405.2	1346.7	1292.2	1239.6	1189.2	1154.9	1136.7	1132.5	1136.7
47.5°	1312.4	1237.6	1164.9	1098.2	1039.7	981.2	930.8	884.2	862.0	856.0	854.0
50°	1128.6	1051.8	975.0	906.4	841.9	783.4	720.7	676.3	648.1	638.0	629.9
52.5°	948.9	880.3	801.5	730.9	666.2	597.6	533.0	482.5	454.2	442.1	434.1
55°	791.4	722.8	650.1	581.5	512.9	444.1	379.6	331.0	300.9	286.6	276.6
57.5°	631.9	567.3	504.8	436.1	379.6	313.0	248.3	205.9	179.7	163.6	155.5
60°	488.5	438.1	383.6	327.1	272.5	218.0	165.6	125.1	104.9	92.9	82.7
62.5°	369.5	327.1	290.7	242.2	199.9	153.4	113.1	80.8	62.6	52.6	48.4
65°	266.5	234.2	201.9	171.6	141.4	107.1	76.7	52.6	36.3	30.3	28.2
67.5°	189.8	163.6	139.2	119.1	96.9	76.7	54.5	36.3	28.2	24.2	22.2
70°	133.2	113.1	96.9	78.8	64.6	50.4	42.4	26.2	16.1	18.2	14.1
72.5°	88.8	74.7	66.7	54.5	44.4	36.3	26.2	18.2	18.2	14.1	12.1
75°	48.4	44.4	34.3	26.2	22.2	20.2	8.1	4.0	2.0	6.1	2.0
77.5°	34.3	30.3	26.2	22.2	18.2	14.1	8.1	8.1	6.1	8.1	4.0
80°	22.2	18.2	16.1	16.1	10.1	6.1	4.0	4.0	6.1	2.0	2.0
82.5°	14.1	12.1	10.1	10.1	10.1	6.1	6.1	6.1	6.1	4.0	4.0
85°	8.1	6.1	4.0	4.0	2.0	4.0	0.0	2.0	2.0	0.0	0.0
87.5°	4.0	2.0	2.0	2.0	2.0	0.0	0.0	2.0	0.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4	4320.4
2.5°	4354.7	4362.8	4373.0	4381.0	4399.3	4403.2	4411.4	4419.4	4425.5	4431.4	4433.6
5°	4383.0	4413.4	4441.6	4471.9	4510.2	4536.5	4566.7	4593.1	4619.3	4641.5	4657.6
7.5°	4391.2	4437.6	4480.0	4532.4	4588.9	4637.5	4687.9	4738.4	4790.9	4831.3	4865.6
10°	4407.3	4463.8	4518.3	4580.9	4653.6	4718.2	4780.7	4847.4	4914.0	4970.5	5021.1
12.5°	4435.6	4498.1	4556.8	4625.4	4700.0	4772.7	4841.4	4916.0	4986.8	5049.3	5105.8
15°	4482.0	4540.5	4597.1	4661.7	4736.3	4803.0	4871.6	4944.3	5015.0	5079.6	5132.1
17.5°	4512.2	4566.7	4623.2	4681.9	4744.4	4805.1	4869.6	4934.2	4998.8	5057.4	5105.8
20°	4512.2	4564.8	4607.2	4659.7	4718.2	4770.6	4823.2	4879.7	4936.2	4984.6	5031.2
22.5°	4475.9	4526.4	4558.7	4599.1	4649.6	4694.0	4722.2	4784.8	4827.3	4869.6	4903.9
25°	4391.2	4427.5	4453.7	4482.0	4522.3	4552.6	4576.9	4613.3	4655.6	4671.8	4696.0
27.5°	4237.7	4263.9	4278.1	4284.1	4304.3	4320.4	4324.5	4340.6	4358.9	4362.8	4373.0
30°	3995.5	3997.5	3991.4	3989.4	3979.2	3967.2	3965.1	3963.1	3955.1	3947.0	3948.9
32.5°	3630.0	3619.9	3595.6	3569.5	3543.3	3515.0	3498.8	3478.6	3466.5	3454.4	3440.2
35°	3157.5	3133.4	3099.0	3066.7	3036.5	3014.3	2977.9	2965.7	2953.7	2937.5	2933.5
37.5°	2602.4	2588.3	2555.9	2531.8	2515.6	2505.4	2487.3	2475.2	2475.2	2469.1	2465.1
40°	2029.0	2025.0	2012.9	2018.9	2010.8	2014.9	2012.9	2008.8	2018.9	2018.9	2023.0
42.5°	1522.2	1524.3	1530.4	1534.3	1546.5	1548.4	1558.6	1558.6	1564.7	1570.6	1574.8
45°	1132.5	1140.7	1140.7	1148.8	1160.9	1162.9	1166.8	1169.0	1172.9	1183.1	1187.1
47.5°	849.9	852.0	852.0	854.0	858.0	862.0	860.0	862.0	868.1	864.1	868.1
50°	627.9	629.9	623.8	617.8	623.8	623.8	621.8	615.8	621.8	613.7	617.8
52.5°	428.0	426.0	419.9	421.9	417.9	415.9	415.9	411.9	411.9	411.9	403.8
55°	270.6	270.6	266.5	266.5	264.6	260.4	258.4	256.4	254.4	252.3	252.3
57.5°	151.4	153.4	147.4	145.4	147.4	145.4	141.4	141.4	141.4	135.3	139.2
60°	82.7	80.8	78.8	76.7	74.7	76.7	76.7	72.8	72.8	72.8	74.7
62.5°	44.4	44.4	42.4	42.4	40.4	40.4	44.4	38.3	40.4	38.3	40.4
65°	24.2	30.3	22.2	22.2	28.2	26.2	24.2	24.2	26.2	22.2	24.2
67.5°	26.2	18.2	16.1	18.2	16.1	16.1	16.1	20.2	18.2	14.1	18.2
70°	12.1	14.1	14.1	10.1	16.1	8.1	14.1	8.1	12.1	10.1	12.1
72.5°	12.1	12.1	12.1	8.1	12.1	8.1	10.1	10.1	8.1	8.1	12.1
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°	4.0	4.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	0.0	2.0
80°	4.0	4.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	4.0
82.5°	2.0	4.0	2.0	2.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0
85°	0.0	2.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	2.0
87.5°	0.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	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: P249777

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4320.4	4320.4	4320.4	4320.4
2.5°	4435.6	4437.6	4441.6	4439.6
5°	4669.7	4685.9	4694.0	4691.9
7.5°	4889.8	4918.2	4934.2	4934.2
10°	5059.4	5091.7	5115.9	5119.9
12.5°	5150.2	5186.6	5218.9	5210.7
15°	5176.4	5212.9	5245.2	5239.0
17.5°	5146.2	5182.5	5206.8	5202.7
20°	5063.4	5093.7	5117.9	5115.9
22.5°	4934.2	4960.5	4980.7	4978.6
25°	4716.2	4734.4	4750.5	4742.4
27.5°	4381.0	4387.1	4397.1	4385.1
30°	3934.8	3938.9	3942.9	3941.0
32.5°	3434.2	3432.2	3428.1	3424.1
35°	2927.5	2927.5	2929.4	2917.3
37.5°	2467.1	2465.1	2471.1	2465.1
40°	2027.0	2025.0	2033.0	2023.0
42.5°	1580.8	1586.9	1588.9	1588.9
45°	1189.2	1191.2	1193.2	1193.2
47.5°	868.1	870.1	880.3	868.1
50°	613.7	615.8	617.8	613.7
52.5°	405.8	407.8	405.8	399.7
55°	248.3	250.4	250.4	250.4
57.5°	133.2	135.3	135.3	133.2
60°	72.8	70.6	72.8	68.6
62.5°	38.3	42.4	40.4	36.3
65°	24.2	24.2	24.2	28.2
67.5°	20.2	16.1	18.2	14.1
70°	12.1	14.1	14.1	10.1
72.5°	10.1	10.1	10.1	12.1
75°	0.0	0.0	0.0	0.0
77.5°	4.0	4.0	4.0	2.0
80°	2.0	0.0	2.0	0.0
82.5°	2.0	2.0	4.0	2.0
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)