

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 EC8B809727 8LBSW0LI**

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 EC8B809727 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: 6161.0 lumens
Efficiency: N/A
Efficacy: 82.8 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

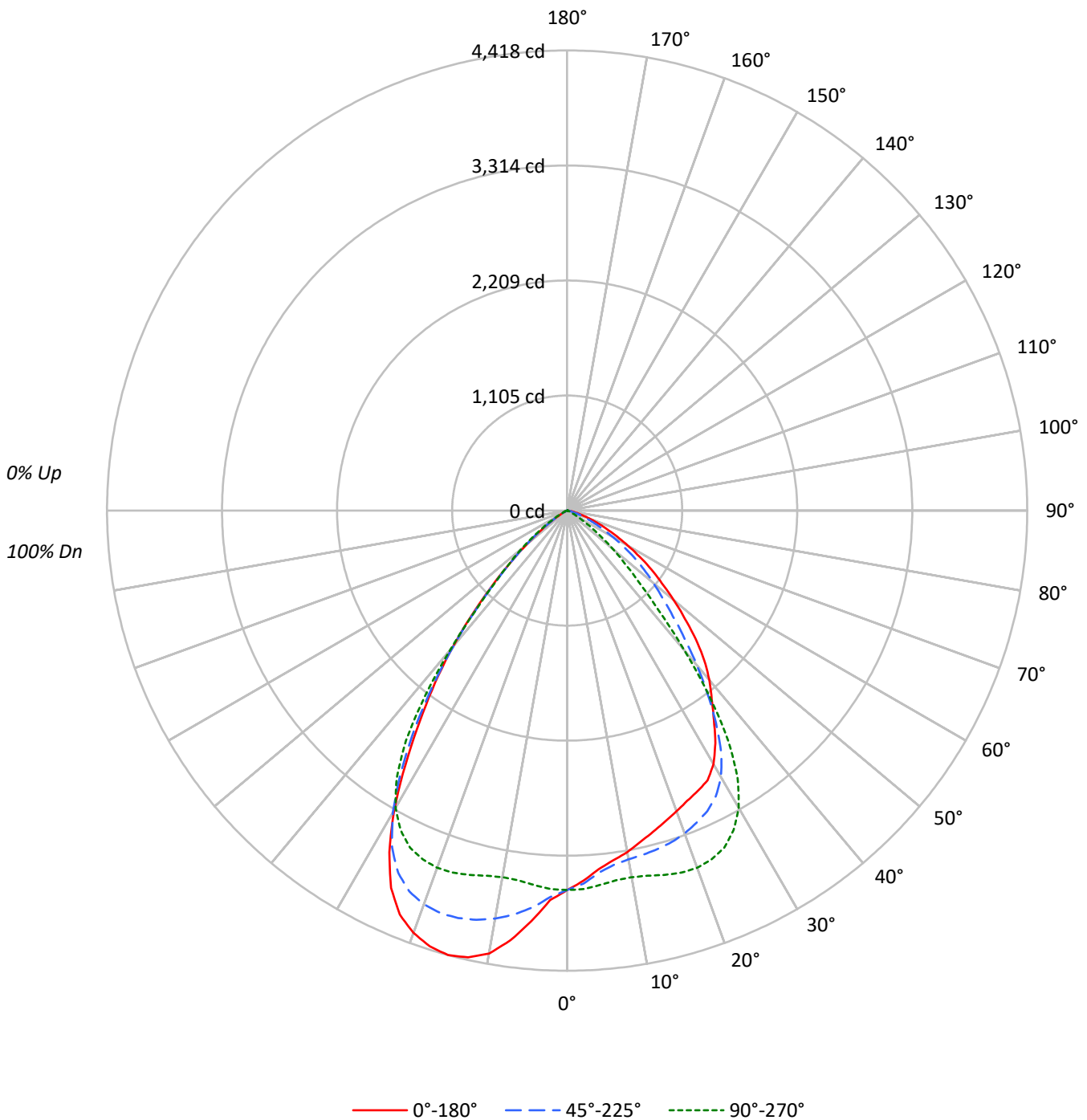
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249770

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBSW0LI

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°	350.2	5.7
10°-20°	1048.2	17.0
20°-30°	1605.2	26.1
30°-40°	1573.6	25.5
40°-50°	947.6	15.4
50°-60°	436.2	7.1
60°-70°	153.2	2.5
70°-80°	40.1	0.7
80°-90°	6.8	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°	3003.5	48.8
0°-40°	4577.1	74.3
0°-60°	5960.9	96.8
0°-90°	6161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6161.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3643	3643	3643	3643	3643	
5°	3458	3490	3609	3825	3956	327
15°	3192	3364	3621	4050	4418	902
25°	2969	3183	3570	3839	3999	1367
35°	2456	2491	2696	2542	2460	1539
45°	1745	1437	974	981	1006	1338
55°	991	785	279	220	211	884
65°	420	291	44	22	24	428
75°	109	63	3	0	0	132
85°	17	8	2	0	0	23
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°	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0
2.5°	3557.9	3561.3	3561.3	3561.3	3568.1	3569.9	3568.1	3569.9	3573.2	3585.1	3590.2
5°	3457.5	3452.4	3455.8	3454.0	3462.6	3467.7	3464.3	3469.4	3481.3	3489.8	3498.3
7.5°	3386.0	3386.0	3386.0	3389.4	3394.5	3404.7	3403.0	3406.4	3418.3	3430.2	3442.1
10°	3329.8	3328.1	3328.1	3336.6	3343.4	3355.3	3358.7	3369.0	3384.2	3399.6	3413.2
12.5°	3256.6	3258.3	3266.8	3275.4	3290.6	3309.3	3319.6	3333.2	3357.1	3382.6	3397.9
15°	3191.9	3193.6	3200.4	3217.4	3236.2	3258.3	3280.4	3302.5	3331.5	3363.9	3391.1
17.5°	3128.9	3130.6	3135.7	3154.5	3178.3	3207.2	3232.8	3261.7	3299.2	3336.6	3370.7
20°	3071.0	3069.3	3077.8	3094.9	3125.5	3152.7	3178.3	3212.4	3253.2	3299.2	3338.3
22.5°	3014.8	3014.8	3023.4	3040.4	3067.7	3094.9	3122.1	3157.8	3198.7	3243.0	3288.9
25°	2968.9	2967.2	2979.1	2987.6	3008.0	3035.3	3064.2	3093.2	3134.0	3183.4	3227.6
27.5°	2919.5	2917.9	2919.5	2929.8	2948.5	2968.9	2991.0	3016.6	3050.6	3091.5	3134.0
30°	2810.6	2812.3	2812.3	2820.8	2831.0	2853.1	2865.0	2890.6	2921.2	2955.3	2992.8
32.5°	2648.9	2650.5	2650.5	2654.0	2662.5	2672.7	2682.9	2701.6	2725.4	2754.4	2788.4
35°	2456.5	2456.5	2454.8	2456.5	2461.6	2461.6	2470.1	2461.6	2473.5	2490.6	2516.1
37.5°	2279.4	2276.0	2272.7	2269.2	2264.1	2255.6	2243.7	2223.3	2218.1	2211.3	2213.0
40°	2122.8	2121.2	2110.9	2102.4	2085.4	2065.0	2036.0	2000.3	1971.4	1937.3	1908.4
42.5°	1949.2	1947.5	1939.0	1923.6	1904.9	1874.3	1828.3	1780.7	1722.8	1671.7	1619.0
45°	1744.9	1750.0	1738.1	1721.1	1698.9	1670.0	1619.0	1561.0	1503.1	1436.8	1370.4
47.5°	1532.1	1530.4	1521.9	1511.7	1493.0	1464.0	1430.0	1367.0	1305.7	1244.4	1176.3
50°	1334.6	1327.8	1324.4	1314.2	1302.3	1278.5	1242.7	1191.6	1137.2	1079.3	1016.3
52.5°	1147.4	1147.4	1138.8	1132.1	1121.8	1103.1	1072.5	1031.6	985.7	931.2	864.8
55°	990.8	987.4	978.9	970.3	960.1	948.2	921.0	886.9	837.5	784.8	726.9
57.5°	824.0	822.2	818.8	808.6	803.5	791.6	761.0	726.9	684.4	638.4	590.7
60°	674.1	667.3	660.5	653.7	645.2	633.3	612.8	583.9	548.2	507.3	459.7
62.5°	539.7	549.8	529.4	529.4	512.4	502.2	483.5	466.5	429.0	391.6	350.7
65°	420.5	420.5	411.9	405.1	394.9	383.0	364.3	347.3	320.0	291.1	262.1
67.5°	321.8	320.0	311.5	304.7	296.2	289.4	275.8	255.3	234.9	211.1	187.2
70°	236.6	234.9	233.2	221.3	214.5	206.0	195.8	182.2	166.8	149.8	127.7
72.5°	170.2	170.2	165.2	160.0	153.2	146.4	136.2	127.7	114.1	102.2	86.8
75°	109.0	107.3	107.3	98.7	98.7	88.5	81.7	76.6	69.8	63.0	49.4
77.5°	78.3	76.6	74.9	71.5	68.1	64.7	59.6	52.8	47.6	40.9	35.7
80°	52.8	49.4	47.6	47.6	42.5	40.9	42.5	32.4	30.6	25.5	22.1
82.5°	32.4	32.4	30.6	30.6	28.9	27.3	22.1	22.1	20.5	18.7	15.3
85°	17.0	22.1	15.3	17.0	15.3	17.0	15.3	11.9	10.2	8.5	8.5
87.5°	10.2	6.8	6.8	10.2	8.5	6.8	6.8	6.8	5.1	3.4	3.4
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: P249770

CATALOG NUMBER: LSR8B80D010 EC8B809727 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0
2.5°	3586.9	3598.8	3597.0	3612.4	3617.5	3629.4	3629.4	3637.9	3643.0	3654.9	3665.2
5°	3501.8	3520.5	3525.6	3544.3	3559.6	3578.3	3590.2	3609.0	3626.0	3651.6	3675.4
7.5°	3449.0	3464.3	3474.5	3496.6	3513.7	3534.1	3554.5	3580.0	3603.8	3634.5	3668.6
10°	3423.4	3443.9	3459.1	3481.3	3501.8	3523.9	3544.3	3573.2	3600.5	3639.6	3677.1
12.5°	3416.6	3440.4	3459.1	3489.8	3510.2	3534.1	3557.9	3590.2	3619.2	3660.0	3702.6
15°	3416.6	3449.0	3474.5	3508.5	3532.4	3563.0	3588.6	3620.9	3653.2	3695.8	3736.6
17.5°	3409.8	3449.0	3481.3	3520.5	3551.1	3581.8	3614.1	3644.8	3678.7	3719.7	3765.6
20°	3382.6	3432.0	3471.1	3517.0	3549.4	3583.5	3615.8	3649.8	3685.6	3728.1	3767.3
22.5°	3334.9	3392.8	3437.1	3486.4	3523.9	3557.9	3590.2	3624.3	3663.5	3704.3	3745.2
25°	3271.9	3326.4	3374.1	3425.1	3462.6	3500.0	3530.7	3569.9	3605.6	3644.8	3677.1
27.5°	3176.6	3234.4	3280.4	3333.2	3367.2	3403.0	3428.5	3460.9	3495.0	3527.3	3552.8
30°	3033.6	3086.4	3134.0	3181.7	3215.7	3241.3	3268.5	3294.1	3316.2	3338.3	3360.4
32.5°	2824.2	2871.9	2917.9	2962.1	2989.3	3011.5	3031.9	3047.2	3059.1	3071.0	3072.7
35°	2536.5	2575.6	2604.6	2643.7	2669.3	2689.7	2689.7	2696.5	2694.8	2689.7	2684.6
37.5°	2214.8	2230.0	2242.0	2257.3	2259.0	2259.0	2248.8	2240.3	2226.7	2223.3	2213.0
40°	1879.4	1859.0	1843.6	1823.2	1811.3	1785.7	1763.7	1748.3	1726.2	1722.8	1719.4
42.5°	1561.0	1513.4	1470.8	1435.1	1394.3	1358.4	1326.1	1302.3	1285.3	1283.5	1285.3
45°	1302.3	1247.8	1184.8	1135.5	1089.5	1045.2	1002.7	973.8	958.4	955.0	958.4
47.5°	1106.5	1043.6	982.2	926.0	876.7	827.3	784.8	745.6	726.9	721.8	720.1
50°	951.6	886.9	822.2	764.3	709.9	660.5	607.7	570.3	546.5	537.9	531.1
52.5°	800.1	742.3	675.8	616.3	561.8	503.9	449.4	406.8	383.0	372.8	366.0
55°	667.3	609.5	548.2	490.3	432.4	374.5	320.0	279.2	253.7	241.7	233.2
57.5°	532.8	478.4	425.6	367.7	320.0	263.9	209.4	173.6	151.5	137.9	131.1
60°	411.9	369.4	323.4	275.8	229.8	183.9	139.6	105.5	88.5	78.3	69.8
62.5°	311.5	275.8	245.1	204.3	168.5	129.3	95.4	68.1	52.8	44.3	40.9
65°	224.7	197.5	170.2	144.7	119.2	90.3	64.7	44.3	30.6	25.5	23.8
67.5°	160.0	137.9	117.4	100.4	81.7	64.7	46.0	30.6	23.8	20.5	18.7
70°	112.3	95.4	81.7	66.4	54.4	42.5	35.7	22.1	13.6	15.3	11.9
72.5°	74.9	63.0	56.2	46.0	37.4	30.6	22.1	15.3	15.3	11.9	10.2
75°	40.9	37.4	28.9	22.1	18.7	17.0	6.8	3.4	1.7	5.1	1.7
77.5°	28.9	25.5	22.1	18.7	15.3	11.9	6.8	6.8	5.1	6.8	3.4
80°	18.7	15.3	13.6	13.6	8.5	5.1	3.4	3.4	5.1	1.7	1.7
82.5°	11.9	10.2	8.5	8.5	8.5	5.1	5.1	5.1	5.1	3.4	3.4
85°	6.8	5.1	3.4	3.4	1.7	3.4	0.0	1.7	1.7	0.0	0.0
87.5°	3.4	1.7	1.7	1.7	1.7	0.0	0.0	1.7	0.0	1.7	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 EC8B809727 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0	3643.0
2.5°	3672.0	3678.7	3687.3	3694.1	3709.4	3712.8	3719.7	3726.5	3731.6	3736.6	3738.4
5°	3695.8	3721.4	3745.2	3770.7	3803.1	3825.2	3850.7	3872.8	3895.0	3913.7	3927.3
7.5°	3702.6	3741.7	3777.5	3821.8	3869.4	3910.3	3952.9	3995.4	4039.7	4073.7	4102.7
10°	3716.2	3763.9	3809.8	3862.6	3923.9	3978.4	4031.1	4087.3	4143.5	4191.2	4233.8
12.5°	3740.1	3792.8	3842.2	3900.1	3963.1	4024.3	4082.2	4145.2	4204.8	4257.6	4305.2
15°	3779.2	3828.6	3876.3	3930.7	3993.7	4049.9	4107.8	4169.0	4228.7	4283.1	4327.4
17.5°	3804.7	3850.7	3898.3	3947.7	4000.5	4051.6	4106.0	4160.5	4215.0	4264.4	4305.2
20°	3804.7	3849.0	3884.8	3929.0	3978.4	4022.7	4066.9	4114.6	4162.2	4203.1	4242.3
22.5°	3774.1	3816.6	3843.9	3878.0	3920.5	3958.0	3981.8	4034.6	4070.3	4106.0	4135.0
25°	3702.6	3733.3	3755.4	3779.2	3813.3	3838.8	3859.2	3889.9	3925.6	3939.3	3959.7
27.5°	3573.2	3595.4	3607.3	3612.4	3629.4	3643.0	3646.4	3660.0	3675.4	3678.7	3687.3
30°	3369.0	3370.7	3365.5	3363.9	3355.3	3345.1	3343.4	3341.7	3334.9	3328.1	3329.8
32.5°	3060.8	3052.3	3031.9	3009.8	2987.6	2963.8	2950.2	2933.1	2922.9	2912.7	2900.8
35°	2662.5	2642.1	2613.1	2585.9	2560.4	2541.6	2511.0	2500.7	2490.6	2476.9	2473.5
37.5°	2194.3	2182.4	2155.1	2134.8	2121.2	2112.6	2097.3	2087.1	2087.1	2082.0	2078.6
40°	1710.8	1707.5	1697.2	1702.4	1695.6	1698.9	1697.2	1693.8	1702.4	1702.4	1705.8
42.5°	1283.5	1285.3	1290.4	1293.8	1304.0	1305.7	1314.2	1314.2	1319.3	1324.4	1327.8
45°	955.0	961.9	961.9	968.6	978.9	980.6	983.9	985.7	989.0	997.6	1001.0
47.5°	716.7	718.4	718.4	720.1	723.5	726.9	725.2	726.9	732.0	728.6	732.0
50°	529.4	531.1	526.0	520.9	526.0	526.0	524.3	519.2	524.3	517.5	520.9
52.5°	360.9	359.2	354.1	355.8	352.4	350.7	350.7	347.3	347.3	347.3	340.5
55°	228.1	228.1	224.7	224.7	223.0	219.6	217.9	216.2	214.5	212.8	212.8
57.5°	127.7	129.3	124.3	122.6	124.3	122.6	119.2	119.2	119.2	114.1	117.4
60°	69.8	68.1	66.4	64.7	63.0	64.7	64.7	61.3	61.3	61.3	63.0
62.5°	37.4	37.4	35.7	35.7	34.1	34.1	37.4	32.4	34.1	32.4	34.1
65°	20.5	25.5	18.7	18.7	23.8	22.1	20.5	20.5	22.1	18.7	20.5
67.5°	22.1	15.3	13.6	15.3	13.6	13.6	13.6	17.0	15.3	11.9	15.3
70°	10.2	11.9	11.9	8.5	13.6	6.8	11.9	6.8	10.2	8.5	10.2
72.5°	10.2	10.2	10.2	6.8	10.2	6.8	8.5	8.5	6.8	6.8	10.2
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°	3.4	3.4	1.7	1.7	1.7	1.7	3.4	3.4	3.4	0.0	1.7
80°	3.4	3.4	0.0	1.7	0.0	0.0	1.7	0.0	1.7	0.0	3.4
82.5°	1.7	3.4	1.7	1.7	3.4	3.4	3.4	1.7	1.7	1.7	1.7
85°	0.0	1.7	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	1.7
87.5°	0.0	1.7	0.0	0.0	0.0	0.0	1.7	1.7	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 EC8B809727 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3643.0	3643.0	3643.0	3643.0
2.5°	3740.1	3741.7	3745.2	3743.5
5°	3937.5	3951.2	3958.0	3956.3
7.5°	4123.1	4147.0	4160.5	4160.5
10°	4266.1	4293.3	4313.7	4317.2
12.5°	4342.7	4373.4	4400.6	4393.7
15°	4364.8	4395.5	4422.7	4417.6
17.5°	4339.3	4369.9	4390.4	4386.9
20°	4269.5	4295.0	4315.5	4313.7
22.5°	4160.5	4182.7	4199.7	4198.0
25°	3976.7	3992.0	4005.6	3998.8
27.5°	3694.1	3699.2	3707.7	3697.5
30°	3317.9	3321.3	3324.7	3323.0
32.5°	2895.7	2894.0	2890.6	2887.2
35°	2468.4	2468.4	2470.1	2459.9
37.5°	2080.2	2078.6	2083.7	2078.6
40°	1709.1	1707.5	1714.3	1705.8
42.5°	1332.9	1338.1	1339.7	1339.7
45°	1002.7	1004.4	1006.1	1006.1
47.5°	732.0	733.7	742.3	732.0
50°	517.5	519.2	520.9	517.5
52.5°	342.2	343.9	342.2	337.0
55°	209.4	211.1	211.1	211.1
57.5°	112.3	114.1	114.1	112.3
60°	61.3	59.6	61.3	57.9
62.5°	32.4	35.7	34.1	30.6
65°	20.5	20.5	20.5	23.8
67.5°	17.0	13.6	15.3	11.9
70°	10.2	11.9	11.9	8.5
72.5°	8.5	8.5	8.5	10.2
75°	0.0	0.0	0.0	0.0
77.5°	3.4	3.4	3.4	1.7
80°	1.7	0.0	1.7	0.0
82.5°	1.7	1.7	3.4	1.7
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)