

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: P249047

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249047
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: LSR8B70D010 EC8B70940 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6636.0 lumens
Efficiency: N/A
Efficacy: 87.4 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

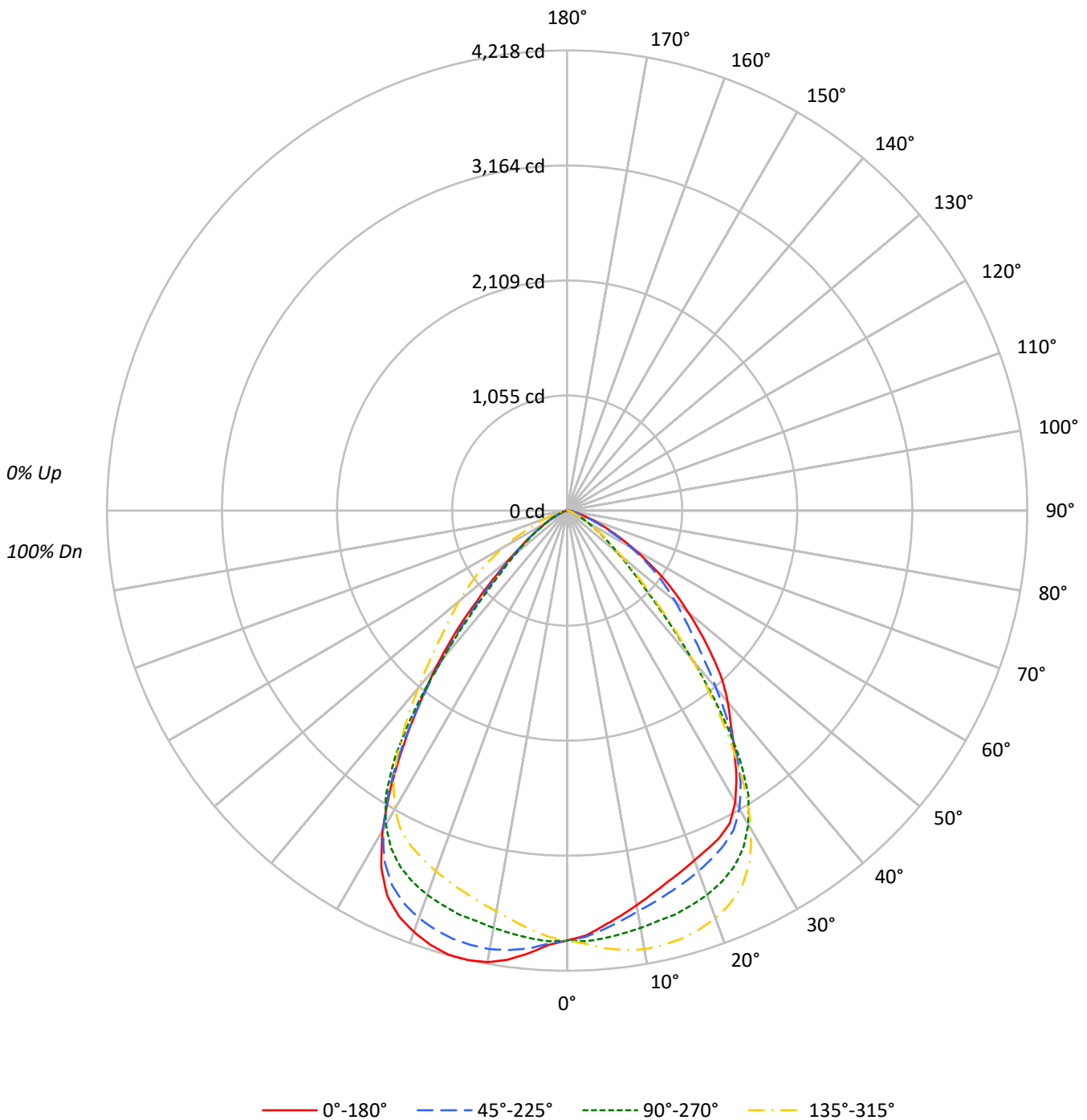
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	121483	121483	121483	121483
5°	118254	121767	126116	121767
10°	114984	121610	131608	121610
15°	112686	122330	134487	122330
20°	111920	123031	134835	123031
25°	112508	122783	132667	122783
30°	109726	118289	120415	118289
35°	100367	103186	97905	103186
40°	92145	71781	74957	71781
45°	81876	43788	50669	43788
50°	69301	29254	32482	29254
55°	57396	19962	21096	19962
60°	43775	13284	13401	13284
65°	31017	8282	7581	8282
70°	22369	5545	5031	5545
75°	14202	2752	2288	2752
80°	9909	2060	1705	2060
85°	8845	0	672	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.0	5.7
10°-20°	1085.9	16.4
20°-30°	1644.2	24.8
30°-40°	1647.9	24.8
40°-50°	1034.8	15.6
50°-60°	551.4	8.3
60°-70°	226.8	3.4
70°-80°	59.9	0.9
80°-90°	10.1	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°	3105.0	46.8
0°-40°	4752.9	71.6
0°-60°	6339.2	95.5
0°-90°	6636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6636.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3940	3940	3940	3940	3940	
5°	3820	3934	4074	3934	3820	360
15°	3530	3832	4213	3832	3530	998
25°	3307	3609	3899	3609	3307	1517
35°	2666	2741	2601	2741	2666	1670
45°	1878	1004	1162	1004	1878	1444
55°	1068	371	392	371	1068	952
65°	425	114	104	114	425	441
75°	119	23	19	23	119	135
85°	25	0	2	0	25	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°	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6
2.5°	3899.2	3895.3	3893.4	3897.3	3899.2	3906.9	3905.0	3908.8	3908.8	3910.8	3914.6
5°	3820.3	3818.4	3820.3	3820.3	3828.0	3835.7	3833.8	3839.6	3843.4	3853.0	3856.8
7.5°	3747.3	3747.3	3745.3	3753.0	3756.8	3768.4	3766.4	3776.1	3781.9	3791.4	3804.9
10°	3672.2	3672.2	3674.1	3679.9	3681.9	3699.1	3699.1	3712.6	3720.3	3729.9	3747.3
12.5°	3599.1	3599.1	3610.7	3606.8	3614.5	3627.9	3633.7	3647.2	3658.7	3678.0	3695.3
15°	3529.8	3529.8	3533.7	3543.3	3549.1	3566.4	3576.0	3591.4	3604.9	3624.1	3649.2
17.5°	3470.2	3468.3	3470.2	3481.8	3493.3	3508.7	3516.4	3535.6	3549.1	3574.1	3597.2
20°	3410.6	3414.5	3414.5	3424.1	3431.7	3451.0	3458.7	3479.9	3495.2	3518.3	3545.3
22.5°	3358.7	3356.8	3356.8	3370.2	3376.0	3393.3	3400.9	3420.2	3437.5	3456.8	3481.8
25°	3306.7	3302.8	3310.6	3312.5	3316.3	3335.5	3341.3	3354.8	3372.1	3389.5	3414.5
27.5°	3229.8	3226.0	3227.9	3235.5	3241.3	3256.7	3260.6	3274.0	3287.5	3302.8	3324.1
30°	3081.6	3077.8	3075.9	3089.4	3095.1	3106.6	3112.4	3135.5	3139.3	3156.7	3172.0
32.5°	2885.4	2883.5	2887.4	2898.9	2904.6	2920.1	2927.8	2941.2	2950.8	2960.5	2975.8
35°	2666.2	2662.3	2666.2	2677.7	2677.7	2691.2	2697.0	2702.7	2700.8	2702.7	2698.9
37.5°	2462.3	2460.3	2462.3	2468.0	2462.3	2468.0	2462.3	2450.7	2429.6	2406.5	2383.3
40°	2289.1	2291.0	2279.5	2287.2	2266.0	2262.2	2241.1	2212.2	2169.9	2123.7	2058.3
42.5°	2104.5	2098.7	2091.0	2094.8	2077.6	2064.0	2029.4	1992.9	1939.0	1862.1	1783.2
45°	1877.5	1875.6	1871.7	1869.8	1858.2	1844.8	1815.9	1773.6	1714.0	1635.1	1540.8
47.5°	1656.2	1650.5	1650.5	1652.4	1638.9	1637.0	1613.9	1577.4	1525.4	1448.5	1350.4
50°	1444.6	1442.7	1446.6	1454.3	1444.6	1440.8	1425.4	1400.4	1354.3	1288.9	1196.5
52.5°	1254.2	1252.3	1256.2	1265.7	1261.9	1265.7	1250.4	1231.1	1200.3	1136.8	1056.1
55°	1067.6	1067.6	1067.6	1079.1	1079.1	1079.1	1071.4	1060.0	1031.1	984.9	909.9
57.5°	873.3	875.2	886.8	888.7	886.8	890.7	888.7	877.1	858.0	825.3	767.6
60°	709.8	709.8	715.6	721.4	719.4	721.4	721.4	715.6	696.4	669.5	623.3
62.5°	561.7	567.5	563.6	567.5	575.1	567.5	563.6	559.8	546.3	529.0	490.5
65°	425.1	429.0	429.0	430.9	427.0	429.0	421.3	415.5	407.8	388.6	363.6
67.5°	323.2	323.2	323.2	323.2	321.2	319.3	317.4	311.6	298.2	290.5	263.5
70°	248.1	236.6	236.6	236.6	236.6	238.6	232.8	225.1	221.2	207.8	188.5
72.5°	165.4	169.3	165.4	165.4	161.6	163.5	155.8	151.9	148.1	140.5	128.9
75°	119.2	109.7	113.5	115.4	109.7	113.5	105.8	98.1	98.1	92.3	86.5
77.5°	77.0	75.1	77.0	78.9	77.0	75.1	71.2	67.3	67.3	65.4	59.6
80°	55.8	53.8	53.8	53.8	51.9	53.8	50.0	50.0	46.2	44.3	40.4
82.5°	36.6	36.6	34.6	36.6	34.6	36.6	30.8	30.8	30.8	28.8	25.0
85°	25.0	21.1	21.1	23.1	19.2	23.1	21.1	19.2	17.3	17.3	15.4
87.5°	11.6	13.5	11.6	13.5	11.6	11.6	13.5	11.6	11.6	7.7	7.7
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°	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6
2.5°	3920.3	3922.2	3922.2	3930.0	3933.8	3935.7	3935.7	3951.1	3945.4	3949.2	3953.0
5°	3864.6	3876.1	3880.0	3880.0	3901.1	3908.8	3916.5	3933.8	3935.7	3947.3	3960.7
7.5°	3810.7	3824.1	3831.9	3849.2	3862.6	3876.1	3899.2	3910.8	3922.2	3937.7	3954.9
10°	3758.7	3774.2	3789.5	3803.0	3824.1	3841.5	3856.8	3883.8	3897.3	3918.4	3941.5
12.5°	3708.8	3729.9	3743.4	3766.4	3789.5	3804.9	3828.0	3853.0	3874.2	3895.3	3922.2
15°	3664.5	3689.5	3704.9	3729.9	3754.9	3776.1	3801.1	3831.9	3847.3	3872.3	3897.3
17.5°	3616.4	3643.4	3662.6	3685.7	3716.5	3739.5	3760.7	3791.4	3810.7	3837.6	3866.5
20°	3566.4	3593.3	3616.4	3639.5	3670.3	3693.3	3718.4	3749.2	3770.3	3797.2	3820.3
22.5°	3506.8	3531.8	3556.8	3583.7	3614.5	3633.7	3662.6	3689.5	3712.6	3737.6	3760.7
25°	3429.8	3460.6	3479.9	3504.8	3529.8	3551.0	3581.8	3608.7	3627.9	3651.1	3672.2
27.5°	3339.4	3362.5	3377.9	3399.0	3424.1	3443.3	3466.3	3493.3	3512.6	3533.7	3549.1
30°	3185.5	3206.7	3220.2	3235.5	3260.6	3277.9	3297.1	3322.1	3335.5	3351.0	3364.4
32.5°	2983.5	3000.8	3008.5	3020.1	3037.4	3054.7	3070.1	3091.3	3097.0	3106.6	3106.6
35°	2691.2	2695.0	2693.1	2697.0	2704.6	2714.2	2727.7	2741.1	2748.8	2748.8	2743.1
37.5°	2348.7	2325.7	2300.7	2281.4	2275.7	2271.8	2279.5	2285.2	2293.0	2296.8	2287.2
40°	1992.9	1941.0	1885.2	1835.1	1800.5	1785.1	1779.4	1783.2	1783.2	1796.6	1796.6
42.5°	1687.0	1606.2	1523.5	1448.5	1398.4	1360.0	1342.7	1342.7	1344.6	1354.3	1360.0
45°	1433.1	1331.1	1234.9	1152.3	1083.0	1033.0	1009.9	1004.1	1002.2	1006.0	1019.5
47.5°	1238.8	1133.0	1033.0	931.1	858.0	807.9	786.8	779.0	771.4	779.0	781.0
50°	1086.9	977.2	871.4	769.5	692.5	648.2	621.3	609.8	607.8	607.8	611.7
52.5°	948.3	846.4	740.6	636.7	555.9	513.6	488.6	482.8	475.1	482.8	482.8
55°	817.5	715.6	611.7	513.6	446.2	402.1	378.9	371.3	367.4	373.2	373.2
57.5°	675.2	588.6	492.5	404.0	336.7	305.9	288.5	278.9	277.0	280.8	277.0
60°	554.0	480.9	398.2	317.4	265.5	232.8	219.3	215.4	211.6	215.4	215.4
62.5°	438.6	377.0	309.7	248.1	203.9	180.8	165.4	165.4	163.5	163.5	165.4
65°	325.1	277.0	228.9	177.0	142.4	125.0	113.5	113.5	111.6	113.5	111.6
67.5°	236.6	203.9	165.4	128.9	102.0	92.3	84.6	78.9	82.7	78.9	77.0
70°	173.2	146.2	119.2	98.1	78.9	69.3	63.5	61.5	57.7	57.7	57.7
72.5°	115.4	98.1	80.8	63.5	51.9	42.3	40.4	36.6	32.7	34.6	38.5
75°	77.0	65.4	57.7	46.2	34.6	34.6	23.1	23.1	19.2	23.1	17.3
77.5°	53.8	44.3	34.6	28.8	23.1	21.1	15.4	15.4	13.5	13.5	13.5
80°	38.5	32.7	25.0	21.1	15.4	15.4	13.5	11.6	9.6	9.6	11.6
82.5°	23.1	17.3	17.3	15.4	9.6	7.7	5.8	7.7	3.9	3.9	3.9
85°	13.5	11.6	9.6	5.8	3.9	3.9	1.9	0.0	1.9	1.9	0.0
87.5°	7.7	3.9	3.9	1.9	0.0	1.9	1.9	0.0	0.0	0.0	3.9
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°	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6
2.5°	3962.7	3960.7	3964.6	3964.6	3976.2	3974.2	3980.0	3980.0	3976.2	3978.1	3985.7
5°	3976.2	3981.9	3993.4	4003.1	4020.3	4028.1	4037.7	4047.3	4049.2	4055.0	4060.8
7.5°	3976.2	3995.4	4008.9	4026.1	4049.2	4062.7	4083.8	4101.2	4108.9	4118.4	4130.0
10°	3968.4	3987.6	4012.7	4031.9	4060.8	4081.9	4103.1	4130.0	4141.6	4156.9	4172.4
12.5°	3953.0	3974.2	4001.1	4026.1	4058.8	4078.1	4105.0	4130.0	4147.3	4168.5	4185.8
15°	3930.0	3954.9	3980.0	4005.0	4039.6	4062.7	4087.7	4116.5	4133.9	4156.9	4172.4
17.5°	3893.4	3920.3	3943.5	3966.5	3999.2	4026.1	4049.2	4076.2	4093.5	4112.7	4133.9
20°	3849.2	3874.2	3899.2	3918.4	3951.1	3974.2	3999.2	4024.2	4037.7	4041.6	4074.3
22.5°	3793.4	3810.7	3829.9	3860.7	3880.0	3901.1	3924.2	3947.3	3960.7	3981.9	3993.4
25°	3701.0	3718.4	3739.5	3753.0	3776.1	3793.4	3816.5	3841.5	3849.2	3864.6	3876.1
27.5°	3572.2	3581.8	3591.4	3602.9	3616.4	3626.0	3639.5	3651.1	3658.7	3666.4	3674.1
30°	3368.2	3368.2	3368.2	3360.6	3366.3	3372.1	3374.0	3372.1	3372.1	3370.2	3370.2
32.5°	3098.9	3083.6	3066.2	3050.9	3045.1	3037.4	3033.5	3027.8	3018.2	3012.4	3014.3
35°	2735.4	2700.8	2679.6	2660.4	2645.0	2633.5	2627.7	2621.9	2620.0	2612.3	2604.6
37.5°	2281.4	2256.4	2241.1	2229.5	2216.0	2204.5	2206.4	2208.4	2214.1	2210.3	2212.2
40°	1800.5	1794.7	1800.5	1787.0	1783.2	1787.0	1796.6	1810.2	1817.8	1825.5	1839.0
42.5°	1369.6	1379.2	1392.7	1392.7	1398.4	1406.2	1417.7	1438.9	1450.4	1463.8	1479.3
45°	1031.1	1042.6	1060.0	1065.7	1069.5	1079.1	1092.7	1109.9	1117.6	1129.2	1142.6
47.5°	794.5	802.2	811.7	821.4	831.0	834.9	848.3	848.3	858.0	865.7	869.5
50°	619.4	627.1	634.8	640.6	644.4	650.2	654.0	659.8	661.7	665.6	667.5
52.5°	484.7	494.4	494.4	498.2	504.0	509.7	507.8	509.7	511.6	511.6	517.4
55°	378.9	378.9	384.7	384.7	388.6	386.6	388.6	388.6	388.6	388.6	390.5
57.5°	282.7	284.7	290.5	286.6	284.7	288.5	284.7	288.5	286.6	290.5	284.7
60°	217.3	217.3	219.3	219.3	221.2	221.2	221.2	219.3	219.3	217.3	217.3
62.5°	163.5	165.4	167.4	165.4	165.4	165.4	163.5	163.5	161.6	159.6	159.6
65°	109.7	107.8	111.6	107.8	109.7	109.7	107.8	109.7	103.9	105.8	103.9
67.5°	78.9	77.0	75.1	77.0	75.1	73.1	73.1	75.1	77.0	71.2	71.2
70°	51.9	53.8	51.9	53.8	55.8	55.8	53.8	51.9	53.8	50.0	51.9
72.5°	32.7	32.7	32.7	32.7	32.7	34.6	34.6	34.6	30.8	30.8	28.8
75°	15.4	21.1	17.3	15.4	21.1	21.1	19.2	19.2	17.3	17.3	17.3
77.5°	15.4	11.6	11.6	11.6	11.6	11.6	11.6	11.6	9.6	11.6	9.6
80°	7.7	7.7	7.7	5.8	7.7	7.7	9.6	7.7	7.7	5.8	9.6
82.5°	3.9	3.9	3.9	0.0	1.9	3.9	3.9	1.9	3.9	3.9	1.9
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: P249047

CATALOG NUMBER: LSR8B70D010 EC8B70940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6
2.5°	3983.8	3981.9	3983.8	3985.7	3983.8	3981.9	3983.8	3985.7	3978.1	3976.2	3980.0
5°	4068.5	4068.5	4072.3	4074.3	4072.3	4068.5	4068.5	4060.8	4055.0	4049.2	4047.3
7.5°	4141.6	4145.4	4149.2	4151.1	4149.2	4145.4	4141.6	4130.0	4118.4	4108.9	4101.2
10°	4185.8	4191.6	4199.3	4203.1	4199.3	4191.6	4185.8	4172.4	4156.9	4141.6	4130.0
12.5°	4205.1	4210.8	4220.4	4218.5	4220.4	4210.8	4205.1	4185.8	4168.5	4147.3	4130.0
15°	4191.6	4199.3	4208.9	4212.7	4208.9	4199.3	4191.6	4172.4	4156.9	4133.9	4116.5
17.5°	4149.2	4160.8	4166.6	4172.4	4166.6	4160.8	4149.2	4133.9	4112.7	4093.5	4076.2
20°	4091.5	4099.3	4107.0	4108.9	4107.0	4099.3	4091.5	4074.3	4041.6	4037.7	4024.2
22.5°	4008.9	4014.6	4031.9	4026.1	4031.9	4014.6	4008.9	3993.4	3981.9	3960.7	3947.3
25°	3889.5	3895.3	3897.3	3899.2	3897.3	3895.3	3889.5	3876.1	3864.6	3849.2	3841.5
27.5°	3683.8	3683.8	3687.6	3689.5	3687.6	3683.8	3683.8	3674.1	3666.4	3658.7	3651.1
30°	3372.1	3372.1	3372.1	3381.8	3372.1	3372.1	3372.1	3370.2	3370.2	3372.1	3372.1
32.5°	3012.4	3008.5	3004.7	3008.5	3004.7	3008.5	3012.4	3014.3	3012.4	3018.2	3027.8
35°	2604.6	2602.7	2608.4	2600.8	2608.4	2602.7	2604.6	2604.6	2612.3	2620.0	2621.9
37.5°	2214.1	2210.3	2217.9	2210.3	2217.9	2210.3	2214.1	2212.2	2210.3	2214.1	2208.4
40°	1842.9	1846.7	1846.7	1862.1	1846.7	1846.7	1842.9	1839.0	1825.5	1817.8	1810.2
42.5°	1487.0	1498.5	1494.6	1506.2	1494.6	1498.5	1487.0	1479.3	1463.8	1450.4	1438.9
45°	1150.3	1158.1	1158.1	1161.9	1158.1	1158.1	1150.3	1142.6	1129.2	1117.6	1109.9
47.5°	882.9	882.9	882.9	884.9	882.9	882.9	882.9	869.5	865.7	858.0	848.3
50°	671.4	673.3	675.2	677.1	675.2	673.3	671.4	667.5	665.6	661.7	659.8
52.5°	515.5	517.4	513.6	517.4	513.6	517.4	515.5	517.4	511.6	511.6	509.7
55°	390.5	388.6	390.5	392.4	390.5	388.6	390.5	390.5	388.6	388.6	388.6
57.5°	286.6	282.7	282.7	282.7	282.7	282.7	286.6	284.7	290.5	286.6	288.5
60°	213.5	215.4	215.4	217.3	215.4	215.4	213.5	217.3	217.3	219.3	219.3
62.5°	157.7	163.5	159.6	163.5	159.6	163.5	157.7	159.6	159.6	161.6	163.5
65°	102.0	102.0	102.0	103.9	102.0	102.0	102.0	103.9	105.8	103.9	109.7
67.5°	69.3	71.2	75.1	73.1	75.1	71.2	69.3	71.2	71.2	77.0	75.1
70°	55.8	50.0	50.0	55.8	50.0	50.0	55.8	51.9	50.0	53.8	51.9
72.5°	32.7	28.8	32.7	32.7	32.7	28.8	32.7	28.8	30.8	30.8	34.6
75°	17.3	15.4	13.5	19.2	13.5	15.4	17.3	17.3	17.3	17.3	19.2
77.5°	11.6	9.6	13.5	13.5	13.5	9.6	11.6	9.6	11.6	9.6	11.6
80°	5.8	7.7	5.8	9.6	5.8	7.7	5.8	9.6	5.8	7.7	7.7
82.5°	1.9	3.9	3.9	3.9	3.9	3.9	1.9	1.9	3.9	3.9	1.9
85°	0.0	3.9	1.9	1.9	1.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.0	0.0	1.9	0.0	0.0	1.9	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: P249047

CATALOG NUMBER: LSR8B70D010 EC8B70940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6
2.5°	3980.0	3974.2	3976.2	3964.6	3964.6	3960.7	3962.7	3953.0	3949.2	3945.4	3951.1
5°	4037.7	4028.1	4020.3	4003.1	3993.4	3981.9	3976.2	3960.7	3947.3	3935.7	3933.8
7.5°	4083.8	4062.7	4049.2	4026.1	4008.9	3995.4	3976.2	3954.9	3937.7	3922.2	3910.8
10°	4103.1	4081.9	4060.8	4031.9	4012.7	3987.6	3968.4	3941.5	3918.4	3897.3	3883.8
12.5°	4105.0	4078.1	4058.8	4026.1	4001.1	3974.2	3953.0	3922.2	3895.3	3874.2	3853.0
15°	4087.7	4062.7	4039.6	4005.0	3980.0	3954.9	3930.0	3897.3	3872.3	3847.3	3831.9
17.5°	4049.2	4026.1	3999.2	3966.5	3943.5	3920.3	3893.4	3866.5	3837.6	3810.7	3791.4
20°	3999.2	3974.2	3951.1	3918.4	3899.2	3874.2	3849.2	3820.3	3797.2	3770.3	3749.2
22.5°	3924.2	3901.1	3880.0	3860.7	3829.9	3810.7	3793.4	3760.7	3737.6	3712.6	3689.5
25°	3816.5	3793.4	3776.1	3753.0	3739.5	3718.4	3701.0	3672.2	3651.1	3627.9	3608.7
27.5°	3639.5	3626.0	3616.4	3602.9	3591.4	3581.8	3572.2	3549.1	3533.7	3512.6	3493.3
30°	3374.0	3372.1	3366.3	3360.6	3368.2	3368.2	3368.2	3364.4	3351.0	3335.5	3322.1
32.5°	3033.5	3037.4	3045.1	3050.9	3066.2	3083.6	3098.9	3106.6	3106.6	3097.0	3091.3
35°	2627.7	2633.5	2645.0	2660.4	2679.6	2700.8	2735.4	2743.1	2748.8	2748.8	2741.1
37.5°	2206.4	2204.5	2216.0	2229.5	2241.1	2256.4	2281.4	2287.2	2296.8	2293.0	2285.2
40°	1796.6	1787.0	1783.2	1787.0	1800.5	1794.7	1800.5	1796.6	1796.6	1783.2	1783.2
42.5°	1417.7	1406.2	1398.4	1392.7	1392.7	1379.2	1369.6	1360.0	1354.3	1344.6	1342.7
45°	1092.7	1079.1	1069.5	1065.7	1060.0	1042.6	1031.1	1019.5	1006.0	1002.2	1004.1
47.5°	848.3	834.9	831.0	821.4	811.7	802.2	794.5	781.0	779.0	771.4	779.0
50°	654.0	650.2	644.4	640.6	634.8	627.1	619.4	611.7	607.8	607.8	609.8
52.5°	507.8	509.7	504.0	498.2	494.4	494.4	484.7	482.8	482.8	475.1	482.8
55°	388.6	386.6	388.6	384.7	384.7	378.9	378.9	373.2	373.2	367.4	371.3
57.5°	284.7	288.5	284.7	286.6	290.5	284.7	282.7	277.0	280.8	277.0	278.9
60°	221.2	221.2	221.2	219.3	219.3	217.3	217.3	215.4	215.4	211.6	215.4
62.5°	163.5	165.4	165.4	165.4	167.4	165.4	163.5	165.4	163.5	163.5	165.4
65°	107.8	109.7	109.7	107.8	111.6	107.8	109.7	111.6	113.5	111.6	113.5
67.5°	73.1	73.1	75.1	77.0	75.1	77.0	78.9	77.0	78.9	82.7	78.9
70°	53.8	55.8	55.8	53.8	51.9	53.8	51.9	57.7	57.7	57.7	61.5
72.5°	34.6	34.6	32.7	32.7	32.7	32.7	32.7	38.5	34.6	32.7	36.6
75°	19.2	21.1	21.1	15.4	17.3	21.1	15.4	17.3	23.1	19.2	23.1
77.5°	11.6	11.6	11.6	11.6	11.6	11.6	15.4	13.5	13.5	13.5	15.4
80°	9.6	7.7	7.7	5.8	7.7	7.7	7.7	11.6	9.6	9.6	11.6
82.5°	3.9	3.9	1.9	0.0	3.9	3.9	3.9	3.9	3.9	3.9	7.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	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: P249047

CATALOG NUMBER: LSR8B70D010 EC8B70940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6
2.5°	3935.7	3935.7	3933.8	3930.0	3922.2	3922.2	3920.3	3914.6	3910.8	3908.8	3908.8
5°	3916.5	3908.8	3901.1	3880.0	3880.0	3876.1	3864.6	3856.8	3853.0	3843.4	3839.6
7.5°	3899.2	3876.1	3862.6	3849.2	3831.9	3824.1	3810.7	3804.9	3791.4	3781.9	3776.1
10°	3856.8	3841.5	3824.1	3803.0	3789.5	3774.2	3758.7	3747.3	3729.9	3720.3	3712.6
12.5°	3828.0	3804.9	3789.5	3766.4	3743.4	3729.9	3708.8	3695.3	3678.0	3658.7	3647.2
15°	3801.1	3776.1	3754.9	3729.9	3704.9	3689.5	3664.5	3649.2	3624.1	3604.9	3591.4
17.5°	3760.7	3739.5	3716.5	3685.7	3662.6	3643.4	3616.4	3597.2	3574.1	3549.1	3535.6
20°	3718.4	3693.3	3670.3	3639.5	3616.4	3593.3	3566.4	3545.3	3518.3	3495.2	3479.9
22.5°	3662.6	3633.7	3614.5	3583.7	3556.8	3531.8	3506.8	3481.8	3456.8	3437.5	3420.2
25°	3581.8	3551.0	3529.8	3504.8	3479.9	3460.6	3429.8	3414.5	3389.5	3372.1	3354.8
27.5°	3466.3	3443.3	3424.1	3399.0	3377.9	3362.5	3339.4	3324.1	3302.8	3287.5	3274.0
30°	3297.1	3277.9	3260.6	3235.5	3220.2	3206.7	3185.5	3172.0	3156.7	3139.3	3135.5
32.5°	3070.1	3054.7	3037.4	3020.1	3008.5	3000.8	2983.5	2975.8	2960.5	2950.8	2941.2
35°	2727.7	2714.2	2704.6	2697.0	2693.1	2695.0	2691.2	2698.9	2702.7	2700.8	2702.7
37.5°	2279.5	2271.8	2275.7	2281.4	2300.7	2325.7	2348.7	2383.3	2406.5	2429.6	2450.7
40°	1779.4	1785.1	1800.5	1835.1	1885.2	1941.0	1992.9	2058.3	2123.7	2169.9	2212.2
42.5°	1342.7	1360.0	1398.4	1448.5	1523.5	1606.2	1687.0	1783.2	1862.1	1939.0	1992.9
45°	1009.9	1033.0	1083.0	1152.3	1234.9	1331.1	1433.1	1540.8	1635.1	1714.0	1773.6
47.5°	786.8	807.9	858.0	931.1	1033.0	1133.0	1238.8	1350.4	1448.5	1525.4	1577.4
50°	621.3	648.2	692.5	769.5	871.4	977.2	1086.9	1196.5	1288.9	1354.3	1400.4
52.5°	488.6	513.6	555.9	636.7	740.6	846.4	948.3	1056.1	1136.8	1200.3	1231.1
55°	378.9	402.1	446.2	513.6	611.7	715.6	817.5	909.9	984.9	1031.1	1060.0
57.5°	288.5	305.9	336.7	404.0	492.5	588.6	675.2	767.6	825.3	858.0	877.1
60°	219.3	232.8	265.5	317.4	398.2	480.9	554.0	623.3	669.5	696.4	715.6
62.5°	165.4	180.8	203.9	248.1	309.7	377.0	438.6	490.5	529.0	546.3	559.8
65°	113.5	125.0	142.4	177.0	228.9	277.0	325.1	363.6	388.6	407.8	415.5
67.5°	84.6	92.3	102.0	128.9	165.4	203.9	236.6	263.5	290.5	298.2	311.6
70°	63.5	69.3	78.9	98.1	119.2	146.2	173.2	188.5	207.8	221.2	225.1
72.5°	40.4	42.3	51.9	63.5	80.8	98.1	115.4	128.9	140.5	148.1	151.9
75°	23.1	34.6	34.6	46.2	57.7	65.4	77.0	86.5	92.3	98.1	98.1
77.5°	15.4	21.1	23.1	28.8	34.6	44.3	53.8	59.6	65.4	67.3	67.3
80°	13.5	15.4	15.4	21.1	25.0	32.7	38.5	40.4	44.3	46.2	50.0
82.5°	5.8	7.7	9.6	15.4	17.3	17.3	23.1	25.0	28.8	30.8	30.8
85°	1.9	3.9	3.9	5.8	9.6	11.6	13.5	15.4	17.3	17.3	19.2
87.5°	1.9	1.9	0.0	1.9	3.9	3.9	7.7	7.7	7.7	11.6	11.6
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: P249047

CATALOG NUMBER: LSR8B70D010 EC8B70940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6	3939.6
2.5°	3905.0	3906.9	3899.2	3897.3	3893.4	3895.3	3899.2
5°	3833.8	3835.7	3828.0	3820.3	3820.3	3818.4	3820.3
7.5°	3766.4	3768.4	3756.8	3753.0	3745.3	3747.3	3747.3
10°	3699.1	3699.1	3681.9	3679.9	3674.1	3672.2	3672.2
12.5°	3633.7	3627.9	3614.5	3606.8	3610.7	3599.1	3599.1
15°	3576.0	3566.4	3549.1	3543.3	3533.7	3529.8	3529.8
17.5°	3516.4	3508.7	3493.3	3481.8	3470.2	3468.3	3470.2
20°	3458.7	3451.0	3431.7	3424.1	3414.5	3414.5	3410.6
22.5°	3400.9	3393.3	3376.0	3370.2	3356.8	3356.8	3358.7
25°	3341.3	3335.5	3316.3	3312.5	3310.6	3302.8	3306.7
27.5°	3260.6	3256.7	3241.3	3235.5	3227.9	3226.0	3229.8
30°	3112.4	3106.6	3095.1	3089.4	3075.9	3077.8	3081.6
32.5°	2927.8	2920.1	2904.6	2898.9	2887.4	2883.5	2885.4
35°	2697.0	2691.2	2677.7	2677.7	2666.2	2662.3	2666.2
37.5°	2462.3	2468.0	2462.3	2468.0	2462.3	2460.3	2462.3
40°	2241.1	2262.2	2266.0	2287.2	2279.5	2291.0	2289.1
42.5°	2029.4	2064.0	2077.6	2094.8	2091.0	2098.7	2104.5
45°	1815.9	1844.8	1858.2	1869.8	1871.7	1875.6	1877.5
47.5°	1613.9	1637.0	1638.9	1652.4	1650.5	1650.5	1656.2
50°	1425.4	1440.8	1444.6	1454.3	1446.6	1442.7	1444.6
52.5°	1250.4	1265.7	1261.9	1265.7	1256.2	1252.3	1254.2
55°	1071.4	1079.1	1079.1	1079.1	1067.6	1067.6	1067.6
57.5°	888.7	890.7	886.8	888.7	886.8	875.2	873.3
60°	721.4	721.4	719.4	721.4	715.6	709.8	709.8
62.5°	563.6	567.5	575.1	567.5	563.6	567.5	561.7
65°	421.3	429.0	427.0	430.9	429.0	429.0	425.1
67.5°	317.4	319.3	321.2	323.2	323.2	323.2	323.2
70°	232.8	238.6	236.6	236.6	236.6	236.6	248.1
72.5°	155.8	163.5	161.6	165.4	165.4	169.3	165.4
75°	105.8	113.5	109.7	115.4	113.5	109.7	119.2
77.5°	71.2	75.1	77.0	78.9	77.0	75.1	77.0
80°	50.0	53.8	51.9	53.8	53.8	53.8	55.8
82.5°	30.8	36.6	34.6	36.6	34.6	36.6	36.6
85°	21.1	23.1	19.2	23.1	21.1	21.1	25.0
87.5°	13.5	11.6	11.6	13.5	11.6	13.5	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)