

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: P249075

Luminaire Tested: **LD8B80D010 ER8B80930 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249075
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: LD8B80D010 ER8B80930 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6839.2 lumens
Efficiency: N/A
Efficacy: 91.9 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

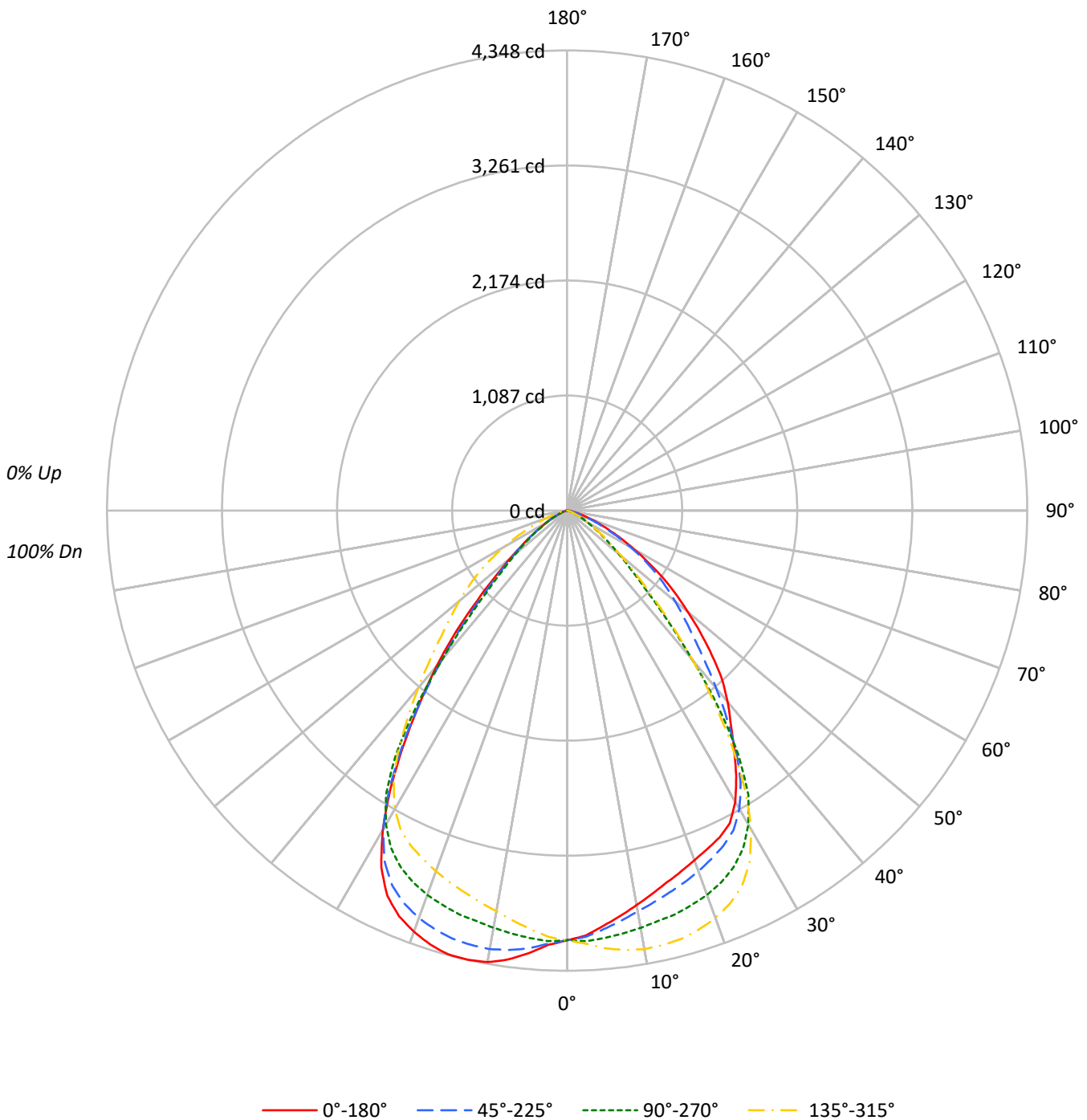
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	386.5	5.7
10°-20°	1119.1	16.4
20°-30°	1694.6	24.8
30°-40°	1698.4	24.8
40°-50°	1066.5	15.6
50°-60°	568.3	8.3
60°-70°	233.7	3.4
70°-80°	61.7	0.9
80°-90°	10.4	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°	3200.1	46.8
0°-40°	4898.5	71.6
0°-60°	6533.3	95.5
0°-90°	6839.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6839.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4060	4060	4060	4060	4060	
5°	3937	4054	4199	4054	3937	371
15°	3638	3949	4342	3949	3638	1029
25°	3408	3719	4019	3719	3408	1563
35°	2748	2825	2680	2825	2748	1722
45°	1935	1035	1198	1035	1935	1488
55°	1100	383	404	383	1100	981
65°	438	117	107	117	438	454
75°	123	24	20	24	123	139
85°	26	0	2	0	26	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°	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3
2.5°	4018.6	4014.6	4012.6	4016.7	4018.6	4026.5	4024.6	4028.5	4028.5	4030.6	4034.5
5°	3937.3	3935.3	3937.3	3937.3	3945.2	3953.2	3951.2	3957.1	3961.1	3971.0	3975.0
7.5°	3862.1	3862.1	3859.9	3867.9	3871.9	3883.8	3881.8	3891.7	3897.7	3907.6	3921.4
10°	3784.6	3784.6	3786.6	3792.6	3794.6	3812.4	3812.4	3826.3	3834.2	3844.1	3862.1
12.5°	3709.4	3709.4	3721.3	3717.2	3725.2	3739.1	3745.0	3758.8	3770.8	3790.7	3808.5
15°	3638.0	3638.0	3641.9	3651.8	3657.7	3675.6	3685.5	3701.4	3715.3	3735.2	3761.0
17.5°	3576.4	3574.5	3576.4	3588.4	3600.3	3616.1	3624.1	3643.9	3657.7	3683.6	3707.4
20°	3515.0	3519.0	3519.0	3528.9	3536.9	3556.7	3564.6	3586.4	3602.2	3626.0	3653.9
22.5°	3461.5	3459.5	3459.5	3473.4	3479.4	3497.2	3505.0	3524.9	3542.8	3562.7	3588.4
25°	3408.0	3404.0	3412.0	3413.9	3417.8	3437.7	3443.6	3457.5	3475.4	3493.3	3519.0
27.5°	3328.7	3324.8	3326.7	3334.6	3340.6	3356.4	3360.4	3374.3	3388.1	3404.0	3425.9
30°	3176.0	3172.1	3170.1	3184.0	3189.9	3201.8	3207.7	3231.5	3235.4	3253.4	3269.2
32.5°	2973.8	2971.8	2975.8	2987.7	2993.6	3009.5	3017.4	3031.3	3041.2	3051.1	3066.9
35°	2747.8	2743.8	2747.8	2759.7	2759.7	2773.6	2779.5	2785.5	2783.4	2785.5	2781.5
37.5°	2537.7	2535.6	2537.7	2543.5	2537.7	2543.5	2537.7	2525.7	2504.0	2480.1	2456.3
40°	2359.3	2361.2	2349.4	2357.2	2335.4	2331.5	2309.7	2279.9	2236.3	2188.8	2121.4
42.5°	2168.9	2163.0	2155.0	2158.9	2141.2	2127.2	2091.6	2053.9	1998.4	1919.2	1837.8
45°	1935.0	1933.1	1929.0	1927.0	1915.1	1901.2	1871.5	1827.9	1766.5	1685.2	1588.0
47.5°	1706.9	1701.0	1701.0	1703.0	1689.1	1687.1	1663.3	1625.7	1572.2	1492.8	1391.7
50°	1488.8	1486.9	1490.9	1498.8	1488.8	1484.9	1469.1	1443.3	1395.8	1328.4	1233.1
52.5°	1292.6	1290.6	1294.6	1304.5	1300.5	1304.5	1288.7	1268.9	1237.1	1171.7	1088.4
55°	1100.4	1100.4	1100.4	1112.1	1112.1	1112.1	1104.3	1092.4	1062.6	1015.1	937.8
57.5°	900.1	902.1	914.0	915.9	914.0	918.0	915.9	904.0	884.2	850.5	791.1
60°	731.6	731.6	737.5	743.4	741.4	743.4	743.4	737.5	717.7	690.0	642.3
62.5°	578.9	584.8	580.9	584.8	592.8	584.8	580.9	577.0	563.1	545.1	505.6
65°	438.1	442.1	442.1	444.0	440.1	442.1	434.2	428.2	420.4	400.5	374.8
67.5°	333.0	333.0	333.0	333.0	331.0	329.1	327.1	321.2	307.3	299.4	271.6
70°	255.7	243.8	243.8	243.8	243.8	245.8	239.9	232.0	228.0	214.1	194.3
72.5°	170.5	174.4	170.5	170.5	166.6	168.5	160.6	156.6	152.7	144.7	132.8
75°	122.9	113.0	116.9	118.9	113.0	116.9	109.1	101.1	101.1	95.2	89.2
77.5°	79.4	77.3	79.4	81.3	79.4	77.3	73.3	69.4	69.4	67.4	61.4
80°	57.5	55.5	55.5	55.5	53.6	55.5	51.6	51.6	47.5	45.6	41.6
82.5°	37.7	37.7	35.6	37.7	35.6	37.7	31.7	31.7	31.7	29.7	25.8
85°	25.8	21.7	21.7	23.9	19.8	23.9	21.7	19.8	17.8	17.8	15.8
87.5°	11.9	13.9	11.9	13.9	11.9	11.9	13.9	11.9	11.9	8.0	8.0
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: P249075

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3
2.5°	4040.4	4042.3	4042.3	4050.4	4054.3	4056.2	4056.2	4072.1	4066.2	4070.2	4074.1
5°	3982.9	3994.8	3998.8	3998.8	4020.6	4028.5	4036.4	4054.3	4056.2	4068.1	4082.0
7.5°	3927.4	3941.2	3949.3	3967.0	3980.9	3994.8	4018.6	4030.6	4042.3	4058.2	4076.1
10°	3873.8	3889.8	3905.6	3919.5	3941.2	3959.1	3975.0	4002.8	4016.7	4038.4	4062.2
12.5°	3822.4	3844.1	3858.0	3881.8	3905.6	3921.4	3945.2	3971.0	3992.8	4014.6	4042.3
15°	3776.8	3802.5	3818.4	3844.1	3869.9	3891.7	3917.6	3949.3	3965.1	3990.9	4016.7
17.5°	3727.1	3754.9	3774.7	3798.5	3830.2	3854.0	3875.9	3907.6	3927.4	3955.1	3984.9
20°	3675.6	3703.3	3727.1	3751.0	3782.7	3806.5	3832.3	3864.0	3885.7	3913.5	3937.3
22.5°	3614.2	3640.0	3665.7	3693.5	3725.2	3745.0	3774.7	3802.5	3826.3	3852.1	3875.9
25°	3534.8	3566.6	3586.4	3612.2	3638.0	3659.7	3691.5	3719.3	3739.1	3762.9	3784.6
27.5°	3441.7	3465.5	3481.4	3503.1	3528.9	3548.7	3572.5	3600.3	3620.2	3641.9	3657.7
30°	3283.1	3304.9	3318.8	3334.6	3360.4	3378.2	3398.1	3423.8	3437.7	3453.6	3467.5
32.5°	3074.9	3092.7	3100.7	3112.6	3130.4	3148.2	3164.1	3185.9	3191.9	3201.8	3201.8
35°	2773.6	2777.5	2775.6	2779.5	2787.5	2797.3	2811.2	2825.1	2833.0	2833.0	2827.2
37.5°	2420.7	2396.9	2371.1	2351.3	2345.4	2341.3	2349.4	2355.2	2363.2	2367.1	2357.2
40°	2053.9	2000.4	1942.9	1891.4	1855.7	1839.8	1833.8	1837.8	1837.8	1851.7	1851.7
42.5°	1738.7	1655.4	1570.2	1492.8	1441.3	1401.7	1383.9	1383.9	1385.8	1395.8	1401.7
45°	1477.0	1371.9	1272.8	1187.6	1116.2	1064.6	1040.8	1034.9	1032.9	1036.8	1050.7
47.5°	1276.7	1167.7	1064.6	959.6	884.2	832.7	810.9	802.9	795.0	802.9	804.9
50°	1120.2	1007.1	898.1	793.0	713.7	668.1	640.3	628.4	626.4	626.4	630.5
52.5°	977.4	872.4	763.3	656.2	572.9	529.3	503.6	497.6	489.7	497.6	497.6
55°	842.5	737.5	630.5	529.3	459.9	414.4	390.6	382.6	378.7	384.6	384.6
57.5°	695.9	606.7	507.6	416.3	346.9	315.2	297.4	287.5	285.4	289.4	285.4
60°	570.9	495.7	410.4	327.1	273.6	239.9	226.0	222.1	218.0	222.1	222.1
62.5°	452.0	388.5	319.1	255.7	210.1	186.4	170.5	170.5	168.5	168.5	170.5
65°	335.1	285.4	235.9	182.4	146.7	128.8	116.9	116.9	115.0	116.9	115.0
67.5°	243.8	210.1	170.5	132.8	105.1	95.2	87.2	81.3	85.3	81.3	79.4
70°	178.5	150.7	122.9	101.1	81.3	71.4	65.5	63.4	59.5	59.5	59.5
72.5°	118.9	101.1	83.3	65.5	53.6	43.6	41.6	37.7	33.7	35.6	39.7
75°	79.4	67.4	59.5	47.5	35.6	35.6	23.9	23.9	19.8	23.9	17.8
77.5°	55.5	45.6	35.6	29.7	23.9	21.7	15.8	15.8	13.9	13.9	13.9
80°	39.7	33.7	25.8	21.7	15.8	15.8	13.9	11.9	9.9	9.9	11.9
82.5°	23.9	17.8	17.8	15.8	9.9	8.0	5.9	8.0	4.0	4.0	4.0
85°	13.9	11.9	9.9	5.9	4.0	4.0	1.9	0.0	1.9	1.9	0.0
87.5°	8.0	4.0	4.0	1.9	0.0	1.9	1.9	0.0	0.0	0.0	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



TEST NUMBER: P249075

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3
2.5°	4084.0	4082.0	4086.0	4086.0	4097.9	4095.9	4101.9	4101.9	4097.9	4099.8	4107.8
5°	4097.9	4103.9	4115.8	4125.7	4143.4	4151.5	4161.4	4171.2	4173.3	4179.2	4185.1
7.5°	4097.9	4117.8	4131.7	4149.4	4173.3	4187.2	4208.9	4226.7	4234.7	4244.6	4256.4
10°	4090.0	4109.8	4135.6	4155.3	4185.1	4207.0	4228.7	4256.4	4268.4	4284.2	4300.2
12.5°	4074.1	4095.9	4123.6	4149.4	4183.1	4203.0	4230.7	4256.4	4274.4	4296.1	4314.1
15°	4050.4	4076.1	4101.9	4127.6	4163.3	4187.2	4212.9	4242.6	4260.5	4284.2	4300.2
17.5°	4012.6	4040.4	4064.2	4088.0	4121.7	4149.4	4173.3	4200.9	4218.9	4238.7	4260.5
20°	3967.0	3992.8	4018.6	4038.4	4072.1	4095.9	4121.7	4147.5	4161.4	4165.3	4199.0
22.5°	3909.6	3927.4	3947.2	3979.0	3998.8	4020.6	4044.3	4068.1	4082.0	4103.9	4115.8
25°	3814.3	3832.3	3854.0	3867.9	3891.7	3909.6	3933.4	3959.1	3967.0	3982.9	3994.8
27.5°	3681.6	3691.5	3701.4	3713.2	3727.1	3737.1	3751.0	3762.9	3770.8	3778.7	3786.6
30°	3471.4	3471.4	3471.4	3463.4	3469.4	3475.4	3477.3	3475.4	3475.4	3473.4	3473.4
32.5°	3193.8	3178.0	3160.1	3144.3	3138.4	3130.4	3126.5	3120.5	3110.7	3104.6	3106.6
35°	2819.1	2783.4	2761.7	2741.9	2726.0	2714.1	2708.1	2702.2	2700.3	2692.3	2684.3
37.5°	2351.3	2325.5	2309.7	2297.8	2283.9	2271.9	2273.9	2276.0	2281.9	2278.0	2279.9
40°	1855.7	1849.6	1855.7	1841.8	1837.8	1841.8	1851.7	1865.6	1873.5	1881.5	1895.3
42.5°	1411.6	1421.4	1435.4	1435.4	1441.3	1449.2	1461.1	1483.0	1494.9	1508.6	1524.6
45°	1062.6	1074.6	1092.4	1098.2	1102.3	1112.1	1126.2	1143.9	1151.8	1163.7	1177.6
47.5°	818.8	826.7	836.6	846.6	856.4	860.4	874.3	874.3	884.2	892.2	896.1
50°	638.4	646.3	654.2	660.2	664.2	670.1	674.1	680.0	681.9	685.9	688.0
52.5°	499.5	509.5	509.5	513.4	519.4	525.4	523.4	525.4	527.3	527.3	533.3
55°	390.6	390.6	396.5	396.5	400.5	398.5	400.5	400.5	400.5	400.5	402.4
57.5°	291.3	293.5	299.4	295.4	293.5	297.4	293.5	297.4	295.4	299.4	293.5
60°	224.0	224.0	226.0	226.0	228.0	228.0	228.0	226.0	226.0	224.0	224.0
62.5°	168.5	170.5	172.5	170.5	170.5	170.5	168.5	168.5	166.6	164.6	164.6
65°	113.0	111.1	115.0	111.1	113.0	113.0	111.1	113.0	107.1	109.1	107.1
67.5°	81.3	79.4	77.3	79.4	77.3	75.3	75.3	77.3	79.4	73.3	73.3
70°	53.6	55.5	53.6	55.5	57.5	57.5	55.5	53.6	55.5	51.6	53.6
72.5°	33.7	33.7	33.7	33.7	33.7	35.6	35.6	35.6	31.7	31.7	29.7
75°	15.8	21.7	17.8	15.8	21.7	21.7	19.8	19.8	17.8	17.8	17.8
77.5°	15.8	11.9	11.9	11.9	11.9	11.9	11.9	11.9	9.9	11.9	9.9
80°	8.0	8.0	8.0	5.9	8.0	8.0	9.9	8.0	8.0	5.9	9.9
82.5°	4.0	4.0	4.0	0.0	1.9	4.0	4.0	1.9	4.0	4.0	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: P249075

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3
2.5°	4105.9	4103.9	4105.9	4107.8	4105.9	4103.9	4105.9	4107.8	4099.8	4097.9	4101.9
5°	4193.1	4193.1	4197.0	4199.0	4197.0	4193.1	4193.1	4185.1	4179.2	4173.3	4171.2
7.5°	4268.4	4272.4	4276.3	4278.3	4276.3	4272.4	4268.4	4256.4	4244.6	4234.7	4226.7
10°	4314.1	4320.0	4327.8	4331.8	4327.8	4320.0	4314.1	4300.2	4284.2	4268.4	4256.4
12.5°	4333.9	4339.8	4349.7	4347.7	4349.7	4339.8	4333.9	4314.1	4296.1	4274.4	4256.4
15°	4320.0	4327.8	4337.7	4341.7	4337.7	4327.8	4320.0	4300.2	4284.2	4260.5	4242.6
17.5°	4276.3	4288.3	4294.2	4300.2	4294.2	4288.3	4276.3	4260.5	4238.7	4218.9	4200.9
20°	4216.9	4224.8	4232.8	4234.7	4232.8	4224.8	4216.9	4199.0	4165.3	4161.4	4147.5
22.5°	4131.7	4137.6	4155.3	4149.4	4155.3	4137.6	4131.7	4115.8	4103.9	4082.0	4068.1
25°	4008.7	4014.6	4016.7	4018.6	4016.7	4014.6	4008.7	3994.8	3982.9	3967.0	3959.1
27.5°	3796.6	3796.6	3800.5	3802.5	3800.5	3796.6	3796.6	3786.6	3778.7	3770.8	3762.9
30°	3475.4	3475.4	3475.4	3485.3	3475.4	3475.4	3475.4	3473.4	3473.4	3475.4	3475.4
32.5°	3104.6	3100.7	3096.8	3100.7	3096.8	3100.7	3104.6	3106.6	3104.6	3110.7	3120.5
35°	2684.3	2682.3	2688.3	2680.4	2688.3	2682.3	2684.3	2684.3	2692.3	2700.3	2702.2
37.5°	2281.9	2278.0	2285.8	2278.0	2285.8	2278.0	2281.9	2279.9	2278.0	2281.9	2276.0
40°	1899.3	1903.2	1903.2	1919.2	1903.2	1903.2	1899.3	1895.3	1881.5	1873.5	1865.6
42.5°	1532.5	1544.4	1540.4	1552.4	1540.4	1544.4	1532.5	1524.6	1508.6	1494.9	1483.0
45°	1185.6	1193.5	1193.5	1197.5	1193.5	1193.5	1185.6	1177.6	1163.7	1151.8	1143.9
47.5°	909.9	909.9	909.9	912.0	909.9	909.9	909.9	896.1	892.2	884.2	874.3
50°	691.9	693.9	695.9	697.8	695.9	693.9	691.9	688.0	685.9	681.9	680.0
52.5°	531.4	533.3	529.3	533.3	529.3	533.3	531.4	533.3	527.3	527.3	525.4
55°	402.4	400.5	402.4	404.5	402.4	400.5	402.4	402.4	400.5	400.5	400.5
57.5°	295.4	291.3	291.3	291.3	291.3	291.3	295.4	293.5	299.4	295.4	297.4
60°	220.1	222.1	222.1	224.0	222.1	222.1	220.1	224.0	224.0	226.0	226.0
62.5°	162.5	168.5	164.6	168.5	164.6	168.5	162.5	164.6	164.6	166.6	168.5
65°	105.1	105.1	105.1	107.1	105.1	105.1	105.1	107.1	109.1	107.1	113.0
67.5°	71.4	73.3	77.3	75.3	77.3	73.3	71.4	73.3	73.3	79.4	77.3
70°	57.5	51.6	51.6	57.5	51.6	51.6	57.5	53.6	51.6	55.5	53.6
72.5°	33.7	29.7	33.7	33.7	33.7	29.7	33.7	29.7	31.7	31.7	35.6
75°	17.8	15.8	13.9	19.8	13.9	15.8	17.8	17.8	17.8	17.8	19.8
77.5°	11.9	9.9	13.9	13.9	13.9	9.9	11.9	9.9	11.9	9.9	11.9
80°	5.9	8.0	5.9	9.9	5.9	8.0	5.9	9.9	5.9	8.0	8.0
82.5°	1.9	4.0	4.0	4.0	4.0	4.0	1.9	1.9	4.0	4.0	1.9
85°	0.0	4.0	1.9	1.9	1.9	4.0	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: P249075

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3
2.5°	4101.9	4095.9	4097.9	4086.0	4086.0	4082.0	4084.0	4074.1	4070.2	4066.2	4072.1
5°	4161.4	4151.5	4143.4	4125.7	4115.8	4103.9	4097.9	4082.0	4068.1	4056.2	4054.3
7.5°	4208.9	4187.2	4173.3	4149.4	4131.7	4117.8	4097.9	4076.1	4058.2	4042.3	4030.6
10°	4228.7	4207.0	4185.1	4155.3	4135.6	4109.8	4090.0	4062.2	4038.4	4016.7	4002.8
12.5°	4230.7	4203.0	4183.1	4149.4	4123.6	4095.9	4074.1	4042.3	4014.6	3992.8	3971.0
15°	4212.9	4187.2	4163.3	4127.6	4101.9	4076.1	4050.4	4016.7	3990.9	3965.1	3949.3
17.5°	4173.3	4149.4	4121.7	4088.0	4064.2	4040.4	4012.6	3984.9	3955.1	3927.4	3907.6
20°	4121.7	4095.9	4072.1	4038.4	4018.6	3992.8	3967.0	3937.3	3913.5	3885.7	3864.0
22.5°	4044.3	4020.6	3998.8	3979.0	3947.2	3927.4	3909.6	3875.9	3852.1	3826.3	3802.5
25°	3933.4	3909.6	3891.7	3867.9	3854.0	3832.3	3814.3	3784.6	3762.9	3739.1	3719.3
27.5°	3751.0	3737.1	3727.1	3713.2	3701.4	3691.5	3681.6	3657.7	3641.9	3620.2	3600.3
30°	3477.3	3475.4	3469.4	3463.4	3471.4	3471.4	3471.4	3467.5	3453.6	3437.7	3423.8
32.5°	3126.5	3130.4	3138.4	3144.3	3160.1	3178.0	3193.8	3201.8	3201.8	3191.9	3185.9
35°	2708.1	2714.1	2726.0	2741.9	2761.7	2783.4	2819.1	2827.2	2833.0	2833.0	2825.1
37.5°	2273.9	2271.9	2283.9	2297.8	2309.7	2325.5	2351.3	2357.2	2367.1	2363.2	2355.2
40°	1851.7	1841.8	1837.8	1841.8	1855.7	1849.6	1855.7	1851.7	1851.7	1837.8	1837.8
42.5°	1461.1	1449.2	1441.3	1435.4	1435.4	1421.4	1411.6	1401.7	1395.8	1385.8	1383.9
45°	1126.2	1112.1	1102.3	1098.2	1092.4	1074.6	1062.6	1050.7	1036.8	1032.9	1034.9
47.5°	874.3	860.4	856.4	846.6	836.6	826.7	818.8	804.9	802.9	795.0	802.9
50°	674.1	670.1	664.2	660.2	654.2	646.3	638.4	630.5	626.4	626.4	628.4
52.5°	523.4	525.4	519.4	513.4	509.5	509.5	499.5	497.6	497.6	489.7	497.6
55°	400.5	398.5	400.5	396.5	396.5	390.6	390.6	384.6	384.6	378.7	382.6
57.5°	293.5	297.4	293.5	295.4	299.4	293.5	291.3	285.4	289.4	285.4	287.5
60°	228.0	228.0	228.0	226.0	226.0	224.0	224.0	222.1	222.1	218.0	222.1
62.5°	168.5	170.5	170.5	170.5	172.5	170.5	168.5	170.5	168.5	168.5	170.5
65°	111.1	113.0	113.0	111.1	115.0	111.1	113.0	115.0	116.9	115.0	116.9
67.5°	75.3	75.3	77.3	79.4	77.3	79.4	81.3	79.4	81.3	85.3	81.3
70°	55.5	57.5	57.5	55.5	53.6	55.5	53.6	59.5	59.5	59.5	63.4
72.5°	35.6	35.6	33.7	33.7	33.7	33.7	33.7	39.7	35.6	33.7	37.7
75°	19.8	21.7	21.7	15.8	17.8	21.7	15.8	17.8	23.9	19.8	23.9
77.5°	11.9	11.9	11.9	11.9	11.9	11.9	15.8	13.9	13.9	13.9	15.8
80°	9.9	8.0	8.0	5.9	8.0	8.0	8.0	11.9	9.9	9.9	11.9
82.5°	4.0	4.0	1.9	0.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0
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	4.0	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: P249075

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3
2.5°	4056.2	4056.2	4054.3	4050.4	4042.3	4042.3	4040.4	4034.5	4030.6	4028.5	4028.5
5°	4036.4	4028.5	4020.6	3998.8	3998.8	3994.8	3982.9	3975.0	3971.0	3961.1	3957.1
7.5°	4018.6	3994.8	3980.9	3967.0	3949.3	3941.2	3927.4	3921.4	3907.6	3897.7	3891.7
10°	3975.0	3959.1	3941.2	3919.5	3905.6	3889.8	3873.8	3862.1	3844.1	3834.2	3826.3
12.5°	3945.2	3921.4	3905.6	3881.8	3858.0	3844.1	3822.4	3808.5	3790.7	3770.8	3758.8
15°	3917.6	3891.7	3869.9	3844.1	3818.4	3802.5	3776.8	3761.0	3735.2	3715.3	3701.4
17.5°	3875.9	3854.0	3830.2	3798.5	3774.7	3754.9	3727.1	3707.4	3683.6	3657.7	3643.9
20°	3832.3	3806.5	3782.7	3751.0	3727.1	3703.3	3675.6	3653.9	3626.0	3602.2	3586.4
22.5°	3774.7	3745.0	3725.2	3693.5	3665.7	3640.0	3614.2	3588.4	3562.7	3542.8	3524.9
25°	3691.5	3659.7	3638.0	3612.2	3586.4	3566.6	3534.8	3519.0	3493.3	3475.4	3457.5
27.5°	3572.5	3548.7	3528.9	3503.1	3481.4	3465.5	3441.7	3425.9	3404.0	3388.1	3374.3
30°	3398.1	3378.2	3360.4	3334.6	3318.8	3304.9	3283.1	3269.2	3253.4	3235.4	3231.5
32.5°	3164.1	3148.2	3130.4	3112.6	3100.7	3092.7	3074.9	3066.9	3051.1	3041.2	3031.3
35°	2811.2	2797.3	2787.5	2779.5	2775.6	2777.5	2773.6	2781.5	2785.5	2783.4	2785.5
37.5°	2349.4	2341.3	2345.4	2351.3	2371.1	2396.9	2420.7	2456.3	2480.1	2504.0	2525.7
40°	1833.8	1839.8	1855.7	1891.4	1942.9	2000.4	2053.9	2121.4	2188.8	2236.3	2279.9
42.5°	1383.9	1401.7	1441.3	1492.8	1570.2	1655.4	1738.7	1837.8	1919.2	1998.4	2053.9
45°	1040.8	1064.6	1116.2	1187.6	1272.8	1371.9	1477.0	1588.0	1685.2	1766.5	1827.9
47.5°	810.9	832.7	884.2	959.6	1064.6	1167.7	1276.7	1391.7	1492.8	1572.2	1625.7
50°	640.3	668.1	713.7	793.0	898.1	1007.1	1120.2	1233.1	1328.4	1395.8	1443.3
52.5°	503.6	529.3	572.9	656.2	763.3	872.4	977.4	1088.4	1171.7	1237.1	1268.9
55°	390.6	414.4	459.9	529.3	630.5	737.5	842.5	937.8	1015.1	1062.6	1092.4
57.5°	297.4	315.2	346.9	416.3	507.6	606.7	695.9	791.1	850.5	884.2	904.0
60°	226.0	239.9	273.6	327.1	410.4	495.7	570.9	642.3	690.0	717.7	737.5
62.5°	170.5	186.4	210.1	255.7	319.1	388.5	452.0	505.6	545.1	563.1	577.0
65°	116.9	128.8	146.7	182.4	235.9	285.4	335.1	374.8	400.5	420.4	428.2
67.5°	87.2	95.2	105.1	132.8	170.5	210.1	243.8	271.6	299.4	307.3	321.2
70°	65.5	71.4	81.3	101.1	122.9	150.7	178.5	194.3	214.1	228.0	232.0
72.5°	41.6	43.6	53.6	65.5	83.3	101.1	118.9	132.8	144.7	152.7	156.6
75°	23.9	35.6	35.6	47.5	59.5	67.4	79.4	89.2	95.2	101.1	101.1
77.5°	15.8	21.7	23.9	29.7	35.6	45.6	55.5	61.4	67.4	69.4	69.4
80°	13.9	15.8	15.8	21.7	25.8	33.7	39.7	41.6	45.6	47.5	51.6
82.5°	5.9	8.0	9.9	15.8	17.8	17.8	23.9	25.8	29.7	31.7	31.7
85°	1.9	4.0	4.0	5.9	9.9	11.9	13.9	15.8	17.8	17.8	19.8
87.5°	1.9	1.9	0.0	1.9	4.0	4.0	8.0	8.0	8.0	11.9	11.9
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: P249075

CATALOG NUMBER: LD8B80D010 ER8B80930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3	4060.3
2.5°	4024.6	4026.5	4018.6	4016.7	4012.6	4014.6	4018.6
5°	3951.2	3953.2	3945.2	3937.3	3937.3	3935.3	3937.3
7.5°	3881.8	3883.8	3871.9	3867.9	3859.9	3862.1	3862.1
10°	3812.4	3812.4	3794.6	3792.6	3786.6	3784.6	3784.6
12.5°	3745.0	3739.1	3725.2	3717.2	3721.3	3709.4	3709.4
15°	3685.5	3675.6	3657.7	3651.8	3641.9	3638.0	3638.0
17.5°	3624.1	3616.1	3600.3	3588.4	3576.4	3574.5	3576.4
20°	3564.6	3556.7	3536.9	3528.9	3519.0	3519.0	3515.0
22.5°	3505.0	3497.2	3479.4	3473.4	3459.5	3459.5	3461.5
25°	3443.6	3437.7	3417.8	3413.9	3412.0	3404.0	3408.0
27.5°	3360.4	3356.4	3340.6	3334.6	3326.7	3324.8	3328.7
30°	3207.7	3201.8	3189.9	3184.0	3170.1	3172.1	3176.0
32.5°	3017.4	3009.5	2993.6	2987.7	2975.8	2971.8	2973.8
35°	2779.5	2773.6	2759.7	2759.7	2747.8	2743.8	2747.8
37.5°	2537.7	2543.5	2537.7	2543.5	2537.7	2535.6	2537.7
40°	2309.7	2331.5	2335.4	2357.2	2349.4	2361.2	2359.3
42.5°	2091.6	2127.2	2141.2	2158.9	2155.0	2163.0	2168.9
45°	1871.5	1901.2	1915.1	1927.0	1929.0	1933.1	1935.0
47.5°	1663.3	1687.1	1689.1	1703.0	1701.0	1701.0	1706.9
50°	1469.1	1484.9	1488.8	1498.8	1490.9	1486.9	1488.8
52.5°	1288.7	1304.5	1300.5	1304.5	1294.6	1290.6	1292.6
55°	1104.3	1112.1	1112.1	1112.1	1100.4	1100.4	1100.4
57.5°	915.9	918.0	914.0	915.9	914.0	902.1	900.1
60°	743.4	743.4	741.4	743.4	737.5	731.6	731.6
62.5°	580.9	584.8	592.8	584.8	580.9	584.8	578.9
65°	434.2	442.1	440.1	444.0	442.1	442.1	438.1
67.5°	327.1	329.1	331.0	333.0	333.0	333.0	333.0
70°	239.9	245.8	243.8	243.8	243.8	243.8	255.7
72.5°	160.6	168.5	166.6	170.5	170.5	174.4	170.5
75°	109.1	116.9	113.0	118.9	116.9	113.0	122.9
77.5°	73.3	77.3	79.4	81.3	79.4	77.3	79.4
80°	51.6	55.5	53.6	55.5	55.5	55.5	57.5
82.5°	31.7	37.7	35.6	37.7	35.6	37.7	37.7
85°	21.7	23.9	19.8	23.9	21.7	21.7	25.8
87.5°	13.9	11.9	11.9	13.9	11.9	13.9	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)