

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: P248724

Luminaire Tested: **LD8B80D010 ER8B80940 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248724  
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 ER8B80940 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7390.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 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

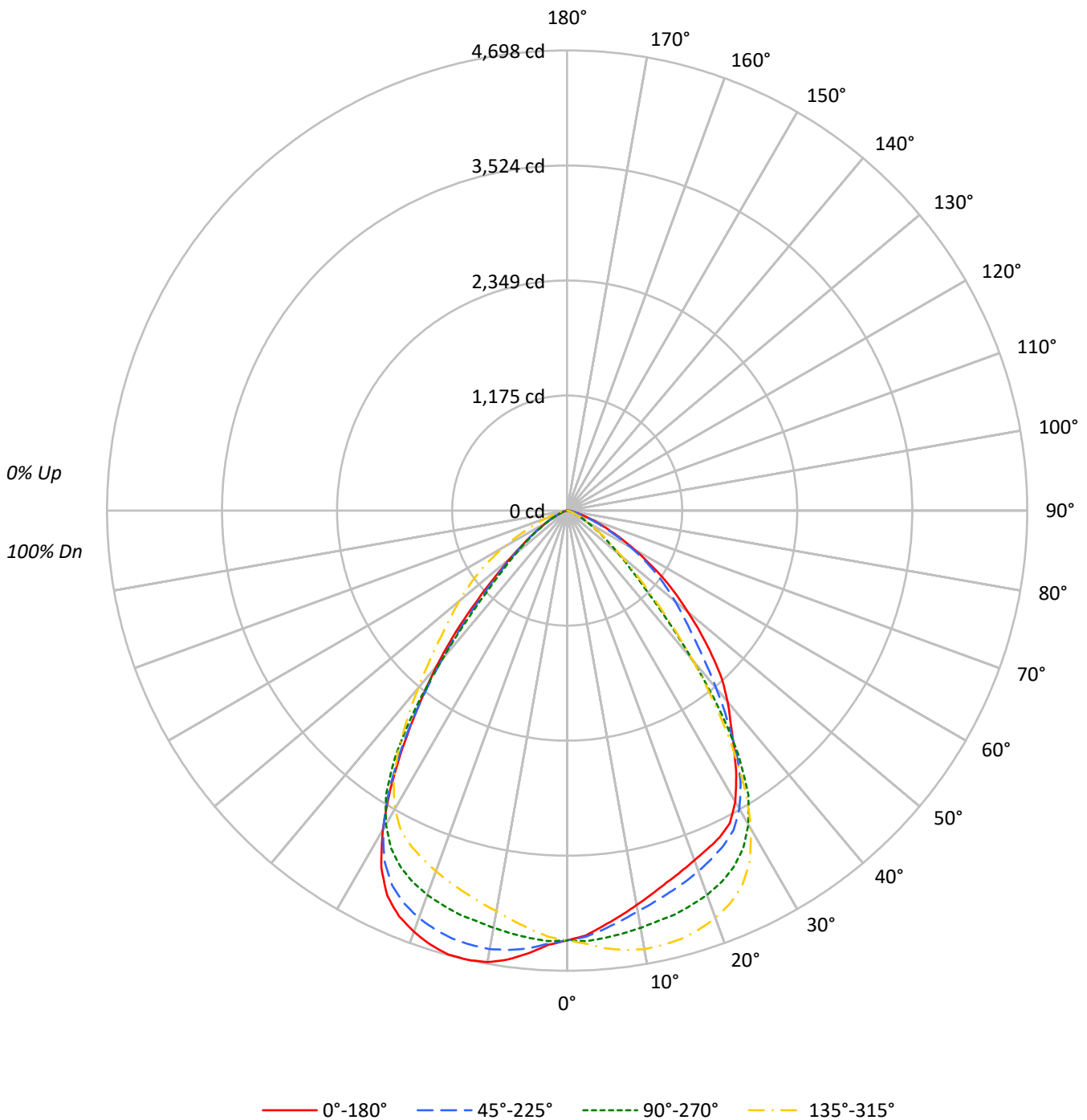
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	135285	135285	135285	135285
5°	131691	135604	140445	135604
10°	128047	135424	146562	135424
15°	125490	136230	149769	136230
20°	124636	137007	150153	137007
25°	125290	136733	147739	136733
30°	122195	131727	134095	131727
35°	111769	114913	109029	114913
40°	102615	79936	83475	79936
45°	91178	48764	56426	48764
50°	77174	32574	36176	32574
55°	63917	22230	23494	22230
60°	48752	14795	14925	14795
65°	34542	9223	8442	9223
70°	24911	6176	5608	6176
75°	15822	3062	2550	3062
80°	11045	2291	1900	2291
85°	9871	0	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.6	5.7
10°-20°	1209.2	16.4
20°-30°	1831.0	24.8
30°-40°	1835.1	24.8
40°-50°	1152.4	15.6
50°-60°	614.1	8.3
60°-70°	252.5	3.4
70°-80°	66.7	0.9
80°-90°	11.3	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°	3457.8	46.8
0°-40°	5293.0	71.6
0°-60°	7059.5	95.5
0°-90°	7390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7390.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4387	4387	4387	4387	4387	
5°	4254	4381	4537	4381	4254	401
15°	3931	4267	4691	4267	3931	1112
25°	3682	4019	4342	4019	3682	1689
35°	2969	3053	2896	3053	2969	1860
45°	2091	1118	1294	1118	2091	1608
55°	1189	414	437	414	1189	1060
65°	473	126	116	126	473	491
75°	133	26	21	26	133	150
85°	28	0	2	0	28	31
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°	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2
2.5°	4342.2	4337.9	4335.8	4340.1	4342.2	4350.8	4348.7	4352.9	4352.9	4355.1	4359.3
5°	4254.4	4252.2	4254.4	4254.4	4263.0	4271.5	4269.4	4275.8	4280.1	4290.8	4295.1
7.5°	4173.0	4173.0	4170.8	4179.4	4183.7	4196.6	4194.4	4205.1	4211.6	4222.2	4237.2
10°	4089.4	4089.4	4091.6	4098.0	4100.2	4119.4	4119.4	4134.4	4143.0	4153.7	4173.0
12.5°	4008.1	4008.1	4020.9	4016.6	4025.2	4040.2	4046.6	4061.6	4074.5	4095.9	4115.2
15°	3930.9	3930.9	3935.2	3945.9	3952.3	3971.6	3982.3	3999.5	4014.5	4035.9	4063.8
17.5°	3864.5	3862.4	3864.5	3877.4	3890.3	3907.4	3915.9	3937.3	3952.3	3980.2	4005.9
20°	3798.1	3802.4	3802.4	3813.1	3821.7	3843.1	3851.6	3875.3	3892.4	3918.0	3948.1
22.5°	3740.3	3738.2	3738.2	3753.1	3759.6	3778.8	3787.4	3808.8	3828.1	3849.5	3877.4
25°	3682.4	3678.1	3686.8	3688.9	3693.1	3714.5	3721.0	3736.0	3755.3	3774.6	3802.4
27.5°	3596.7	3592.5	3594.6	3603.2	3609.6	3626.7	3631.0	3646.0	3661.0	3678.1	3701.7
30°	3431.8	3427.5	3425.4	3440.4	3446.8	3459.6	3466.1	3491.8	3496.0	3515.3	3532.4
32.5°	3213.3	3211.1	3215.5	3228.2	3234.7	3251.9	3260.4	3275.4	3286.1	3296.8	3313.9
35°	2969.1	2964.8	2969.1	2982.0	2982.0	2997.0	3003.4	3009.7	3007.6	3009.7	3005.5
37.5°	2742.0	2739.8	2742.0	2748.4	2742.0	2748.4	2742.0	2729.2	2705.6	2679.9	2654.1
40°	2549.2	2551.3	2538.5	2547.1	2523.5	2519.2	2495.7	2463.5	2416.4	2365.0	2292.2
42.5°	2343.6	2337.2	2328.6	2332.8	2313.6	2298.5	2260.0	2219.4	2159.3	2073.7	1985.8
45°	2090.8	2088.7	2084.4	2082.2	2069.4	2054.4	2022.2	1975.1	1908.7	1820.9	1715.9
47.5°	1844.4	1838.0	1838.0	1840.1	1825.1	1823.0	1797.3	1756.6	1698.8	1613.1	1503.8
50°	1608.7	1606.6	1610.9	1619.5	1608.7	1604.5	1587.4	1559.5	1508.1	1435.3	1332.4
52.5°	1396.7	1394.6	1398.9	1409.6	1405.2	1409.6	1392.5	1371.0	1336.7	1266.0	1176.1
55°	1188.9	1188.9	1188.9	1201.7	1201.7	1201.7	1193.2	1180.4	1148.2	1096.8	1013.3
57.5°	972.6	974.7	987.6	989.7	987.6	991.9	989.7	976.8	955.5	919.0	854.8
60°	790.5	790.5	796.9	803.4	801.2	803.4	803.4	796.9	775.5	745.5	694.1
62.5°	625.5	631.9	627.6	631.9	640.5	631.9	627.6	623.4	608.4	589.1	546.2
65°	473.4	477.7	477.7	479.8	475.5	477.7	469.2	462.7	454.2	432.8	404.9
67.5°	359.9	359.9	359.9	359.9	357.7	355.6	353.5	347.1	332.1	323.5	293.4
70°	276.3	263.5	263.5	263.5	263.5	265.7	259.2	250.7	246.4	231.4	209.9
72.5°	184.2	188.5	184.2	184.2	180.0	182.1	173.5	169.2	165.0	156.4	143.5
75°	132.8	122.1	126.4	128.6	122.1	126.4	117.8	109.2	109.2	102.8	96.4
77.5°	85.7	83.6	85.7	87.8	85.7	83.6	79.3	74.9	74.9	72.8	66.4
80°	62.2	60.0	60.0	60.0	57.8	60.0	55.7	55.7	51.4	49.3	45.0
82.5°	40.7	40.7	38.5	40.7	38.5	40.7	34.3	34.3	34.3	32.1	27.9
85°	27.9	23.5	23.5	25.7	21.4	25.7	23.5	21.4	19.3	19.3	17.1
87.5°	12.9	15.0	12.9	15.0	12.9	12.9	15.0	12.9	12.9	8.6	8.6
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°	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2
2.5°	4365.8	4367.9	4367.9	4376.5	4380.8	4382.9	4382.9	4400.1	4393.6	4398.0	4402.2
5°	4303.7	4316.5	4320.8	4320.8	4344.4	4352.9	4361.5	4380.8	4382.9	4395.8	4410.8
7.5°	4243.7	4258.7	4267.3	4286.5	4301.5	4316.5	4342.2	4355.1	4367.9	4385.1	4404.3
10°	4185.8	4203.0	4220.1	4235.1	4258.7	4278.0	4295.1	4325.0	4340.1	4363.7	4389.3
12.5°	4130.2	4153.7	4168.7	4194.4	4220.1	4237.2	4263.0	4290.8	4314.4	4337.9	4367.9
15°	4080.9	4108.8	4125.9	4153.7	4181.6	4205.1	4233.0	4267.3	4284.4	4312.3	4340.1
17.5°	4027.3	4057.3	4078.8	4104.4	4138.7	4164.4	4188.0	4222.2	4243.7	4273.6	4305.8
20°	3971.6	4001.6	4027.3	4053.0	4087.3	4113.0	4140.8	4175.1	4198.7	4228.7	4254.4
22.5°	3905.2	3933.1	3960.9	3990.9	4025.2	4046.6	4078.8	4108.8	4134.4	4162.3	4188.0
25°	3819.5	3853.8	3875.3	3903.0	3930.9	3954.4	3988.7	4018.7	4040.2	4065.9	4089.4
27.5°	3718.8	3744.6	3761.7	3785.2	3813.1	3834.5	3860.2	3890.3	3911.7	3935.2	3952.3
30°	3547.4	3571.1	3586.1	3603.2	3631.0	3650.3	3671.8	3699.5	3714.5	3731.7	3746.7
32.5°	3322.5	3341.8	3350.4	3363.2	3382.5	3401.8	3419.0	3442.5	3448.9	3459.6	3459.6
35°	2997.0	3001.2	2999.1	3003.4	3012.0	3022.6	3037.6	3052.6	3061.2	3061.2	3054.8
37.5°	2615.6	2589.9	2562.1	2540.7	2534.2	2529.9	2538.5	2544.9	2553.5	2557.8	2547.1
40°	2219.4	2161.5	2099.3	2043.6	2005.1	1988.0	1981.5	1985.8	1985.8	2000.8	2000.8
42.5°	1878.7	1788.7	1696.7	1613.1	1557.3	1514.6	1495.3	1495.3	1497.4	1508.1	1514.6
45°	1596.0	1482.4	1375.3	1283.2	1206.1	1150.3	1124.7	1118.2	1116.1	1120.3	1135.3
47.5°	1379.6	1261.8	1150.3	1036.8	955.5	899.7	876.2	867.5	859.0	867.5	869.8
50°	1210.4	1088.2	970.4	856.9	771.2	721.9	691.9	679.0	676.9	676.9	681.2
52.5°	1056.1	942.6	824.8	709.1	619.1	572.0	544.1	537.7	529.1	537.7	537.7
55°	910.4	796.9	681.2	572.0	497.0	447.7	422.0	413.5	409.1	415.6	415.6
57.5°	752.0	655.5	548.4	449.9	374.9	340.6	321.3	310.6	308.4	312.8	308.4
60°	617.0	535.6	443.4	353.5	295.6	259.2	244.2	239.9	235.6	239.9	239.9
62.5°	488.4	419.9	344.9	276.3	227.0	201.4	184.2	184.2	182.1	182.1	184.2
65°	362.0	308.4	254.9	197.1	158.5	139.2	126.4	126.4	124.2	126.4	124.2
67.5°	263.5	227.0	184.2	143.5	113.6	102.8	94.3	87.8	92.1	87.8	85.7
70°	192.8	162.8	132.8	109.2	87.8	77.2	70.7	68.5	64.3	64.3	64.3
72.5°	128.6	109.2	89.9	70.7	57.8	47.1	45.0	40.7	36.4	38.5	42.9
75°	85.7	72.8	64.3	51.4	38.5	38.5	25.7	25.7	21.4	25.7	19.3
77.5°	60.0	49.3	38.5	32.1	25.7	23.5	17.1	17.1	15.0	15.0	15.0
80°	42.9	36.4	27.9	23.5	17.1	17.1	15.0	12.9	10.7	10.7	12.9
82.5°	25.7	19.3	19.3	17.1	10.7	8.6	6.4	8.6	4.3	4.3	4.3
85°	15.0	12.9	10.7	6.4	4.3	4.3	2.1	0.0	2.1	2.1	0.0
87.5°	8.6	4.3	4.3	2.1	0.0	2.1	2.1	0.0	0.0	0.0	4.3
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°	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2
2.5°	4413.0	4410.8	4415.1	4415.1	4427.9	4425.7	4432.2	4432.2	4427.9	4430.1	4438.6
5°	4427.9	4434.4	4447.2	4457.9	4477.1	4485.8	4496.5	4507.2	4509.3	4515.8	4522.2
7.5°	4427.9	4449.4	4464.4	4483.6	4509.3	4524.3	4547.9	4567.2	4575.7	4586.4	4599.3
10°	4419.3	4440.7	4468.6	4490.0	4522.2	4545.7	4569.3	4599.3	4612.1	4629.2	4646.4
12.5°	4402.2	4425.7	4455.7	4483.6	4520.0	4541.4	4571.4	4599.3	4618.6	4642.1	4661.4
15°	4376.5	4404.3	4432.2	4460.0	4498.6	4524.3	4552.2	4584.3	4603.6	4629.2	4646.4
17.5°	4335.8	4365.8	4391.5	4417.2	4453.6	4483.6	4509.3	4539.3	4558.6	4580.0	4603.6
20°	4286.5	4314.4	4342.2	4363.7	4400.1	4425.7	4453.6	4481.5	4496.5	4500.8	4537.2
22.5°	4224.4	4243.7	4265.1	4299.4	4320.8	4344.4	4370.1	4395.8	4410.8	4434.4	4447.2
25°	4121.5	4140.8	4164.4	4179.4	4205.1	4224.4	4250.1	4278.0	4286.5	4303.7	4316.5
27.5°	3978.1	3988.7	3999.5	4012.3	4027.3	4038.0	4053.0	4065.9	4074.5	4083.0	4091.6
30°	3750.9	3750.9	3750.9	3742.4	3748.8	3755.3	3757.4	3755.3	3755.3	3753.1	3753.1
32.5°	3451.1	3434.0	3414.6	3397.5	3391.1	3382.5	3378.2	3371.8	3361.1	3354.7	3356.8
35°	3046.2	3007.6	2984.1	2962.7	2945.6	2932.7	2926.2	2919.8	2917.7	2909.1	2900.5
37.5°	2540.7	2512.8	2495.7	2482.8	2467.8	2455.0	2457.1	2459.3	2465.6	2461.4	2463.5
40°	2005.1	1998.7	2005.1	1990.1	1985.8	1990.1	2000.8	2015.8	2024.4	2033.0	2047.9
42.5°	1525.2	1535.9	1551.0	1551.0	1557.3	1566.0	1578.8	1602.4	1615.2	1630.2	1647.4
45°	1148.2	1161.1	1180.4	1186.7	1191.1	1201.7	1216.8	1236.0	1244.6	1257.5	1272.4
47.5°	884.7	893.3	904.0	914.7	925.4	929.7	944.7	944.7	955.5	964.0	968.2
50°	689.8	698.3	706.9	713.3	717.7	724.1	728.3	734.8	736.9	741.2	743.3
52.5°	539.8	550.6	550.6	554.8	561.2	567.7	565.6	567.7	569.8	569.8	576.2
55°	422.0	422.0	428.4	428.4	432.8	430.6	432.8	432.8	432.8	432.8	434.9
57.5°	314.9	317.1	323.5	319.2	317.1	321.3	317.1	321.3	319.2	323.5	317.1
60°	242.0	242.0	244.2	244.2	246.4	246.4	246.4	244.2	244.2	242.0	242.0
62.5°	182.1	184.2	186.4	184.2	184.2	184.2	182.1	182.1	180.0	177.8	177.8
65°	122.1	120.0	124.2	120.0	122.1	122.1	120.0	122.1	115.7	117.8	115.7
67.5°	87.8	85.7	83.6	85.7	83.6	81.4	81.4	83.6	85.7	79.3	79.3
70°	57.8	60.0	57.8	60.0	62.2	62.2	60.0	57.8	60.0	55.7	57.8
72.5°	36.4	36.4	36.4	36.4	36.4	38.5	38.5	38.5	34.3	34.3	32.1
75°	17.1	23.5	19.3	17.1	23.5	23.5	21.4	21.4	19.3	19.3	19.3
77.5°	17.1	12.9	12.9	12.9	12.9	12.9	12.9	12.9	10.7	12.9	10.7
80°	8.6	8.6	8.6	6.4	8.6	8.6	10.7	8.6	8.6	6.4	10.7
82.5°	4.3	4.3	4.3	0.0	2.1	4.3	4.3	2.1	4.3	4.3	2.1
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: P248724

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2
2.5°	4436.5	4434.4	4436.5	4438.6	4436.5	4434.4	4436.5	4438.6	4430.1	4427.9	4432.2
5°	4530.8	4530.8	4535.0	4537.2	4535.0	4530.8	4530.8	4522.2	4515.8	4509.3	4507.2
7.5°	4612.1	4616.5	4620.7	4622.8	4620.7	4616.5	4612.1	4599.3	4586.4	4575.7	4567.2
10°	4661.4	4667.9	4676.4	4680.7	4676.4	4667.9	4661.4	4646.4	4629.2	4612.1	4599.3
12.5°	4682.9	4689.3	4700.0	4697.8	4700.0	4689.3	4682.9	4661.4	4642.1	4618.6	4599.3
15°	4667.9	4676.4	4687.1	4691.4	4687.1	4676.4	4667.9	4646.4	4629.2	4603.6	4584.3
17.5°	4620.7	4633.6	4640.0	4646.4	4640.0	4633.6	4620.7	4603.6	4580.0	4558.6	4539.3
20°	4556.4	4565.1	4573.6	4575.7	4573.6	4565.1	4556.4	4537.2	4500.8	4496.5	4481.5
22.5°	4464.4	4470.8	4490.0	4483.6	4490.0	4470.8	4464.4	4447.2	4434.4	4410.8	4395.8
25°	4331.5	4337.9	4340.1	4342.2	4340.1	4337.9	4331.5	4316.5	4303.7	4286.5	4278.0
27.5°	4102.3	4102.3	4106.5	4108.8	4106.5	4102.3	4102.3	4091.6	4083.0	4074.5	4065.9
30°	3755.3	3755.3	3755.3	3766.0	3755.3	3755.3	3755.3	3753.1	3753.1	3755.3	3755.3
32.5°	3354.7	3350.4	3346.1	3350.4	3346.1	3350.4	3354.7	3356.8	3354.7	3361.1	3371.8
35°	2900.5	2898.4	2904.8	2896.3	2904.8	2898.4	2900.5	2900.5	2909.1	2917.7	2919.8
37.5°	2465.6	2461.4	2469.9	2461.4	2469.9	2461.4	2465.6	2463.5	2461.4	2465.6	2459.3
40°	2052.3	2056.5	2056.5	2073.7	2056.5	2056.5	2052.3	2047.9	2033.0	2024.4	2015.8
42.5°	1655.9	1668.8	1664.5	1677.3	1664.5	1668.8	1655.9	1647.4	1630.2	1615.2	1602.4
45°	1281.0	1289.6	1289.6	1293.9	1289.6	1289.6	1281.0	1272.4	1257.5	1244.6	1236.0
47.5°	983.2	983.2	983.2	985.4	983.2	983.2	983.2	968.2	964.0	955.5	944.7
50°	747.6	749.7	752.0	754.1	752.0	749.7	747.6	743.3	741.2	736.9	734.8
52.5°	574.1	576.2	572.0	576.2	572.0	576.2	574.1	576.2	569.8	569.8	567.7
55°	434.9	432.8	434.9	437.0	434.9	432.8	434.9	434.9	432.8	432.8	432.8
57.5°	319.2	314.9	314.9	314.9	314.9	314.9	319.2	317.1	323.5	319.2	321.3
60°	237.8	239.9	239.9	242.0	239.9	239.9	237.8	242.0	242.0	244.2	244.2
62.5°	175.6	182.1	177.8	182.1	177.8	182.1	175.6	177.8	177.8	180.0	182.1
65°	113.6	113.6	113.6	115.7	113.6	113.6	113.6	115.7	117.8	115.7	122.1
67.5°	77.2	79.3	83.6	81.4	83.6	79.3	77.2	79.3	79.3	85.7	83.6
70°	62.2	55.7	55.7	62.2	55.7	55.7	62.2	57.8	55.7	60.0	57.8
72.5°	36.4	32.1	36.4	36.4	36.4	32.1	36.4	32.1	34.3	34.3	38.5
75°	19.3	17.1	15.0	21.4	15.0	17.1	19.3	19.3	19.3	19.3	21.4
77.5°	12.9	10.7	15.0	15.0	15.0	10.7	12.9	10.7	12.9	10.7	12.9
80°	6.4	8.6	6.4	10.7	6.4	8.6	6.4	10.7	6.4	8.6	8.6
82.5°	2.1	4.3	4.3	4.3	4.3	4.3	2.1	2.1	4.3	4.3	2.1
85°	0.0	4.3	2.1	2.1	2.1	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	2.1	0.0	0.0	2.1	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: P248724

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2
2.5°	4432.2	4425.7	4427.9	4415.1	4415.1	4410.8	4413.0	4402.2	4398.0	4393.6	4400.1
5°	4496.5	4485.8	4477.1	4457.9	4447.2	4434.4	4427.9	4410.8	4395.8	4382.9	4380.8
7.5°	4547.9	4524.3	4509.3	4483.6	4464.4	4449.4	4427.9	4404.3	4385.1	4367.9	4355.1
10°	4569.3	4545.7	4522.2	4490.0	4468.6	4440.7	4419.3	4389.3	4363.7	4340.1	4325.0
12.5°	4571.4	4541.4	4520.0	4483.6	4455.7	4425.7	4402.2	4367.9	4337.9	4314.4	4290.8
15°	4552.2	4524.3	4498.6	4460.0	4432.2	4404.3	4376.5	4340.1	4312.3	4284.4	4267.3
17.5°	4509.3	4483.6	4453.6	4417.2	4391.5	4365.8	4335.8	4305.8	4273.6	4243.7	4222.2
20°	4453.6	4425.7	4400.1	4363.7	4342.2	4314.4	4286.5	4254.4	4228.7	4198.7	4175.1
22.5°	4370.1	4344.4	4320.8	4299.4	4265.1	4243.7	4224.4	4188.0	4162.3	4134.4	4108.8
25°	4250.1	4224.4	4205.1	4179.4	4164.4	4140.8	4121.5	4089.4	4065.9	4040.2	4018.7
27.5°	4053.0	4038.0	4027.3	4012.3	3999.5	3988.7	3978.1	3952.3	3935.2	3911.7	3890.3
30°	3757.4	3755.3	3748.8	3742.4	3750.9	3750.9	3750.9	3746.7	3731.7	3714.5	3699.5
32.5°	3378.2	3382.5	3391.1	3397.5	3414.6	3434.0	3451.1	3459.6	3459.6	3448.9	3442.5
35°	2926.2	2932.7	2945.6	2962.7	2984.1	3007.6	3046.2	3054.8	3061.2	3061.2	3052.6
37.5°	2457.1	2455.0	2467.8	2482.8	2495.7	2512.8	2540.7	2547.1	2557.8	2553.5	2544.9
40°	2000.8	1990.1	1985.8	1990.1	2005.1	1998.7	2005.1	2000.8	2000.8	1985.8	1985.8
42.5°	1578.8	1566.0	1557.3	1551.0	1551.0	1535.9	1525.2	1514.6	1508.1	1497.4	1495.3
45°	1216.8	1201.7	1191.1	1186.7	1180.4	1161.1	1148.2	1135.3	1120.3	1116.1	1118.2
47.5°	944.7	929.7	925.4	914.7	904.0	893.3	884.7	869.8	867.5	859.0	867.5
50°	728.3	724.1	717.7	713.3	706.9	698.3	689.8	681.2	676.9	676.9	679.0
52.5°	565.6	567.7	561.2	554.8	550.6	550.6	539.8	537.7	537.7	529.1	537.7
55°	432.8	430.6	432.8	428.4	428.4	422.0	422.0	415.6	415.6	409.1	413.5
57.5°	317.1	321.3	317.1	319.2	323.5	317.1	314.9	308.4	312.8	308.4	310.6
60°	246.4	246.4	246.4	244.2	244.2	242.0	242.0	239.9	239.9	235.6	239.9
62.5°	182.1	184.2	184.2	184.2	186.4	184.2	182.1	184.2	182.1	182.1	184.2
65°	120.0	122.1	122.1	120.0	124.2	120.0	122.1	124.2	126.4	124.2	126.4
67.5°	81.4	81.4	83.6	85.7	83.6	85.7	87.8	85.7	87.8	92.1	87.8
70°	60.0	62.2	62.2	60.0	57.8	60.0	57.8	64.3	64.3	64.3	68.5
72.5°	38.5	38.5	36.4	36.4	36.4	36.4	36.4	42.9	38.5	36.4	40.7
75°	21.4	23.5	23.5	17.1	19.3	23.5	17.1	19.3	25.7	21.4	25.7
77.5°	12.9	12.9	12.9	12.9	12.9	12.9	17.1	15.0	15.0	15.0	17.1
80°	10.7	8.6	8.6	6.4	8.6	8.6	8.6	12.9	10.7	10.7	12.9
82.5°	4.3	4.3	2.1	0.0	4.3	4.3	4.3	4.3	4.3	4.3	8.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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: P248724

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2
2.5°	4382.9	4382.9	4380.8	4376.5	4367.9	4367.9	4365.8	4359.3	4355.1	4352.9	4352.9
5°	4361.5	4352.9	4344.4	4320.8	4320.8	4316.5	4303.7	4295.1	4290.8	4280.1	4275.8
7.5°	4342.2	4316.5	4301.5	4286.5	4267.3	4258.7	4243.7	4237.2	4222.2	4211.6	4205.1
10°	4295.1	4278.0	4258.7	4235.1	4220.1	4203.0	4185.8	4173.0	4153.7	4143.0	4134.4
12.5°	4263.0	4237.2	4220.1	4194.4	4168.7	4153.7	4130.2	4115.2	4095.9	4074.5	4061.6
15°	4233.0	4205.1	4181.6	4153.7	4125.9	4108.8	4080.9	4063.8	4035.9	4014.5	3999.5
17.5°	4188.0	4164.4	4138.7	4104.4	4078.8	4057.3	4027.3	4005.9	3980.2	3952.3	3937.3
20°	4140.8	4113.0	4087.3	4053.0	4027.3	4001.6	3971.6	3948.1	3918.0	3892.4	3875.3
22.5°	4078.8	4046.6	4025.2	3990.9	3960.9	3933.1	3905.2	3877.4	3849.5	3828.1	3808.8
25°	3988.7	3954.4	3930.9	3903.0	3875.3	3853.8	3819.5	3802.4	3774.6	3755.3	3736.0
27.5°	3860.2	3834.5	3813.1	3785.2	3761.7	3744.6	3718.8	3701.7	3678.1	3661.0	3646.0
30°	3671.8	3650.3	3631.0	3603.2	3586.1	3571.1	3547.4	3532.4	3515.3	3496.0	3491.8
32.5°	3419.0	3401.8	3382.5	3363.2	3350.4	3341.8	3322.5	3313.9	3296.8	3286.1	3275.4
35°	3037.6	3022.6	3012.0	3003.4	2999.1	3001.2	2997.0	3005.5	3009.7	3007.6	3009.7
37.5°	2538.5	2529.9	2534.2	2540.7	2562.1	2589.9	2615.6	2654.1	2679.9	2705.6	2729.2
40°	1981.5	1988.0	2005.1	2043.6	2099.3	2161.5	2219.4	2292.2	2365.0	2416.4	2463.5
42.5°	1495.3	1514.6	1557.3	1613.1	1696.7	1788.7	1878.7	1985.8	2073.7	2159.3	2219.4
45°	1124.7	1150.3	1206.1	1283.2	1375.3	1482.4	1596.0	1715.9	1820.9	1908.7	1975.1
47.5°	876.2	899.7	955.5	1036.8	1150.3	1261.8	1379.6	1503.8	1613.1	1698.8	1756.6
50°	691.9	721.9	771.2	856.9	970.4	1088.2	1210.4	1332.4	1435.3	1508.1	1559.5
52.5°	544.1	572.0	619.1	709.1	824.8	942.6	1056.1	1176.1	1266.0	1336.7	1371.0
55°	422.0	447.7	497.0	572.0	681.2	796.9	910.4	1013.3	1096.8	1148.2	1180.4
57.5°	321.3	340.6	374.9	449.9	548.4	655.5	752.0	854.8	919.0	955.5	976.8
60°	244.2	259.2	295.6	353.5	443.4	535.6	617.0	694.1	745.5	775.5	796.9
62.5°	184.2	201.4	227.0	276.3	344.9	419.9	488.4	546.2	589.1	608.4	623.4
65°	126.4	139.2	158.5	197.1	254.9	308.4	362.0	404.9	432.8	454.2	462.7
67.5°	94.3	102.8	113.6	143.5	184.2	227.0	263.5	293.4	323.5	332.1	347.1
70°	70.7	77.2	87.8	109.2	132.8	162.8	192.8	209.9	231.4	246.4	250.7
72.5°	45.0	47.1	57.8	70.7	89.9	109.2	128.6	143.5	156.4	165.0	169.2
75°	25.7	38.5	38.5	51.4	64.3	72.8	85.7	96.4	102.8	109.2	109.2
77.5°	17.1	23.5	25.7	32.1	38.5	49.3	60.0	66.4	72.8	74.9	74.9
80°	15.0	17.1	17.1	23.5	27.9	36.4	42.9	45.0	49.3	51.4	55.7
82.5°	6.4	8.6	10.7	17.1	19.3	19.3	25.7	27.9	32.1	34.3	34.3
85°	2.1	4.3	4.3	6.4	10.7	12.9	15.0	17.1	19.3	19.3	21.4
87.5°	2.1	2.1	0.0	2.1	4.3	4.3	8.6	8.6	8.6	12.9	12.9
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: P248724

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2	4387.2
2.5°	4348.7	4350.8	4342.2	4340.1	4335.8	4337.9	4342.2
5°	4269.4	4271.5	4263.0	4254.4	4254.4	4252.2	4254.4
7.5°	4194.4	4196.6	4183.7	4179.4	4170.8	4173.0	4173.0
10°	4119.4	4119.4	4100.2	4098.0	4091.6	4089.4	4089.4
12.5°	4046.6	4040.2	4025.2	4016.6	4020.9	4008.1	4008.1
15°	3982.3	3971.6	3952.3	3945.9	3935.2	3930.9	3930.9
17.5°	3915.9	3907.4	3890.3	3877.4	3864.5	3862.4	3864.5
20°	3851.6	3843.1	3821.7	3813.1	3802.4	3802.4	3798.1
22.5°	3787.4	3778.8	3759.6	3753.1	3738.2	3738.2	3740.3
25°	3721.0	3714.5	3693.1	3688.9	3686.8	3678.1	3682.4
27.5°	3631.0	3626.7	3609.6	3603.2	3594.6	3592.5	3596.7
30°	3466.1	3459.6	3446.8	3440.4	3425.4	3427.5	3431.8
32.5°	3260.4	3251.9	3234.7	3228.2	3215.5	3211.1	3213.3
35°	3003.4	2997.0	2982.0	2982.0	2969.1	2964.8	2969.1
37.5°	2742.0	2748.4	2742.0	2748.4	2742.0	2739.8	2742.0
40°	2495.7	2519.2	2523.5	2547.1	2538.5	2551.3	2549.2
42.5°	2260.0	2298.5	2313.6	2332.8	2328.6	2337.2	2343.6
45°	2022.2	2054.4	2069.4	2082.2	2084.4	2088.7	2090.8
47.5°	1797.3	1823.0	1825.1	1840.1	1838.0	1838.0	1844.4
50°	1587.4	1604.5	1608.7	1619.5	1610.9	1606.6	1608.7
52.5°	1392.5	1409.6	1405.2	1409.6	1398.9	1394.6	1396.7
55°	1193.2	1201.7	1201.7	1201.7	1188.9	1188.9	1188.9
57.5°	989.7	991.9	987.6	989.7	987.6	974.7	972.6
60°	803.4	803.4	801.2	803.4	796.9	790.5	790.5
62.5°	627.6	631.9	640.5	631.9	627.6	631.9	625.5
65°	469.2	477.7	475.5	479.8	477.7	477.7	473.4
67.5°	353.5	355.6	357.7	359.9	359.9	359.9	359.9
70°	259.2	265.7	263.5	263.5	263.5	263.5	276.3
72.5°	173.5	182.1	180.0	184.2	184.2	188.5	184.2
75°	117.8	126.4	122.1	128.6	126.4	122.1	132.8
77.5°	79.3	83.6	85.7	87.8	85.7	83.6	85.7
80°	55.7	60.0	57.8	60.0	60.0	60.0	62.2
82.5°	34.3	40.7	38.5	40.7	38.5	40.7	40.7
85°	23.5	25.7	21.4	25.7	23.5	23.5	27.9
87.5°	15.0	12.9	12.9	15.0	12.9	15.0	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)