

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: P249002

Luminaire Tested: **LD8B70D010 ER8B70840 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249002  
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: LD8B70D010 ER8B70840 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7401.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 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

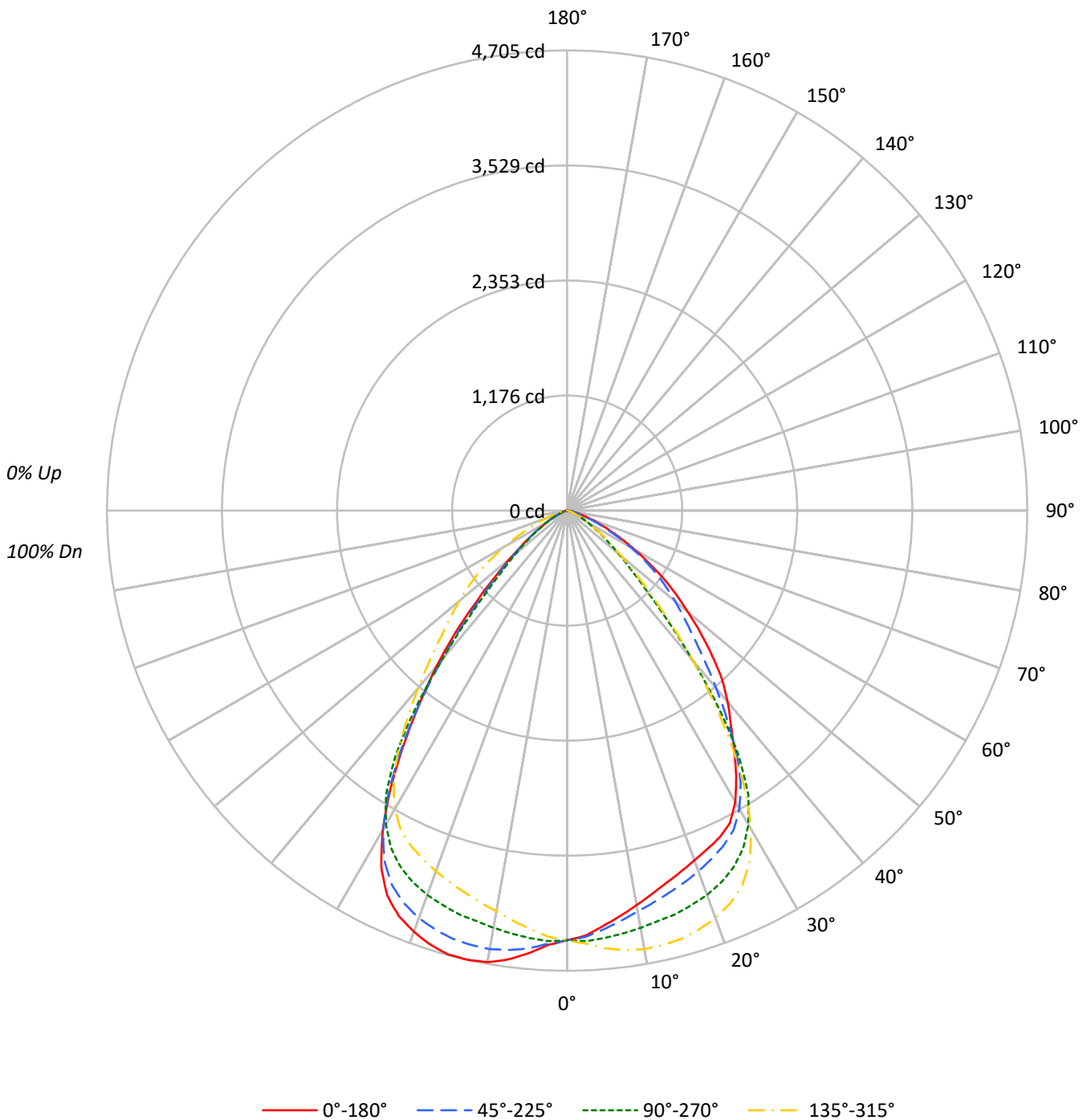
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	135486	135486	135486	135486
5°	131889	135805	140652	135805
10°	128238	135628	146778	135628
15°	125679	136431	149992	136431
20°	124823	137214	150376	137214
25°	125478	136937	147961	136937
30°	122377	131923	134294	131923
35°	111935	115082	109191	115082
40°	102768	80053	83599	80053
45°	91313	48838	56509	48838
50°	77289	32621	36229	32621
55°	64014	22263	23526	22263
60°	48826	14820	14949	14820
65°	34593	9230	8457	9230
70°	24956	6185	5617	6185
75°	15846	3074	2562	3074
80°	11063	2291	1900	2291
85°	9871	0	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.2	5.7
10°-20°	1211.0	16.4
20°-30°	1833.8	24.8
30°-40°	1837.9	24.8
40°-50°	1154.1	15.6
50°-60°	615.0	8.3
60°-70°	252.9	3.4
70°-80°	66.8	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°	3463.0	46.8
0°-40°	5300.9	71.6
0°-60°	7070.0	95.5
0°-90°	7401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7401.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4394	4394	4394	4394	4394	
5°	4261	4387	4544	4387	4261	402
15°	3937	4274	4698	4274	3937	1113
25°	3688	4025	4349	4025	3688	1691
35°	2974	3057	2901	3057	2974	1863
45°	2094	1120	1296	1120	2094	1610
55°	1191	414	438	414	1191	1062
65°	474	126	116	126	474	492
75°	133	26	22	26	133	151
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°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4348.7	4344.4	4342.3	4346.6	4348.7	4357.3	4355.1	4359.4	4359.4	4361.6	4365.8
5°	4260.8	4258.5	4260.8	4260.8	4269.3	4277.9	4275.8	4282.2	4286.4	4297.2	4301.5
7.5°	4179.2	4179.2	4177.0	4185.6	4189.9	4202.8	4200.6	4211.4	4217.8	4228.5	4243.5
10°	4095.5	4095.5	4097.7	4104.1	4106.3	4125.6	4125.6	4140.6	4149.1	4159.9	4179.2
12.5°	4014.0	4014.0	4026.9	4022.6	4031.2	4046.2	4052.6	4067.6	4080.5	4102.0	4121.3
15°	3936.8	3936.8	3941.1	3951.8	3958.2	3977.6	3988.2	4005.5	4020.5	4041.9	4069.8
17.5°	3870.3	3868.1	3870.3	3883.2	3896.0	3913.2	3921.7	3943.2	3958.2	3986.1	4011.9
20°	3803.8	3808.1	3808.1	3818.8	3827.3	3848.8	3857.4	3881.0	3898.2	3923.9	3954.0
22.5°	3745.8	3743.7	3743.7	3758.7	3765.2	3784.4	3793.0	3814.5	3833.8	3855.3	3883.2
25°	3687.9	3683.6	3692.2	3694.4	3698.6	3720.1	3726.5	3741.5	3760.9	3780.2	3808.1
27.5°	3602.1	3597.8	3600.0	3608.5	3615.0	3632.1	3636.4	3651.4	3666.5	3683.6	3707.3
30°	3436.9	3432.6	3430.5	3445.5	3452.0	3464.8	3471.2	3497.0	3501.2	3520.6	3537.7
32.5°	3218.0	3215.9	3220.2	3233.0	3239.5	3256.7	3265.3	3280.3	3291.0	3301.8	3318.9
35°	2973.5	2969.2	2973.5	2986.4	2986.4	3001.4	3007.9	3014.2	3012.1	3014.2	3010.0
37.5°	2746.1	2743.9	2746.1	2752.5	2746.1	2752.5	2746.1	2733.2	2709.7	2683.9	2658.1
40°	2553.0	2555.1	2542.3	2550.9	2527.2	2523.0	2499.4	2467.2	2420.0	2368.5	2295.6
42.5°	2347.1	2340.6	2332.1	2336.3	2317.1	2302.0	2263.4	2222.7	2162.5	2076.8	1988.7
45°	2093.9	2091.8	2087.5	2085.3	2072.4	2057.4	2025.2	1978.0	1911.6	1823.6	1718.4
47.5°	1847.2	1840.7	1840.7	1842.9	1827.8	1825.7	1799.9	1759.2	1701.3	1615.5	1506.1
50°	1611.1	1609.0	1613.3	1621.9	1611.1	1606.9	1589.8	1561.9	1510.4	1437.4	1334.4
52.5°	1398.8	1396.6	1401.0	1411.7	1407.3	1411.7	1394.5	1373.1	1338.7	1267.9	1177.8
55°	1190.7	1190.7	1190.7	1203.5	1203.5	1203.5	1195.0	1182.1	1149.9	1098.4	1014.8
57.5°	974.0	976.1	989.0	991.1	989.0	993.4	991.1	978.3	956.9	920.4	856.0
60°	791.7	791.7	798.1	804.6	802.3	804.6	804.6	798.1	776.6	746.6	695.1
62.5°	626.4	632.9	628.6	632.9	641.5	632.9	628.6	624.3	609.3	590.0	547.1
65°	474.1	478.4	478.4	480.6	476.2	478.4	469.9	463.4	454.9	433.4	405.5
67.5°	360.5	360.5	360.5	360.5	358.3	356.1	354.0	347.6	332.6	324.0	293.9
70°	276.8	263.9	263.9	263.9	263.9	266.1	259.6	251.1	246.7	231.7	210.3
72.5°	184.5	188.8	184.5	184.5	180.2	182.4	173.8	169.5	165.2	156.7	143.8
75°	133.0	122.3	126.5	128.7	122.3	126.5	118.0	109.4	109.4	103.0	96.5
77.5°	85.8	83.7	85.8	88.0	85.8	83.7	79.4	75.1	75.1	72.9	66.5
80°	62.3	60.0	60.0	60.0	57.9	60.0	55.8	55.8	51.5	49.4	45.0
82.5°	40.8	40.8	38.6	40.8	38.6	40.8	34.4	34.4	34.4	32.1	27.9
85°	27.9	23.6	23.6	25.8	21.5	25.8	23.6	21.5	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°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4372.3	4374.4	4374.4	4383.1	4387.3	4389.4	4389.4	4406.6	4400.2	4404.5	4408.8
5°	4310.1	4322.9	4327.2	4327.2	4350.8	4359.4	4368.0	4387.3	4389.4	4402.3	4417.3
7.5°	4250.0	4265.0	4273.6	4292.9	4307.9	4322.9	4348.7	4361.6	4374.4	4391.6	4410.9
10°	4192.0	4209.3	4226.4	4241.4	4265.0	4284.3	4301.5	4331.5	4346.6	4370.2	4395.9
12.5°	4136.3	4159.9	4174.9	4200.6	4226.4	4243.5	4269.3	4297.2	4320.8	4344.4	4374.4
15°	4087.0	4114.9	4132.0	4159.9	4187.8	4211.4	4239.3	4273.6	4290.8	4318.7	4346.6
17.5°	4033.3	4063.4	4084.8	4110.5	4144.9	4170.6	4194.3	4228.5	4250.0	4280.0	4312.2
20°	3977.6	4007.6	4033.3	4059.1	4093.4	4119.1	4147.0	4181.4	4204.9	4235.0	4260.8
22.5°	3911.1	3939.0	3966.8	3996.8	4031.2	4052.6	4084.8	4114.9	4140.6	4168.5	4194.3
25°	3825.2	3859.6	3881.0	3908.9	3936.8	3960.3	3994.7	4024.7	4046.2	4072.0	4095.5
27.5°	3724.4	3750.2	3767.3	3790.9	3818.8	3840.2	3865.9	3896.0	3917.5	3941.1	3958.2
30°	3552.7	3576.4	3591.4	3608.5	3636.4	3655.8	3677.2	3705.0	3720.1	3737.3	3752.3
32.5°	3327.4	3346.8	3355.4	3368.2	3387.6	3406.8	3424.1	3447.6	3454.1	3464.8	3464.8
35°	3001.4	3005.7	3003.5	3007.9	3016.4	3027.1	3042.1	3057.1	3065.7	3065.7	3059.4
37.5°	2619.5	2593.8	2565.9	2544.4	2538.0	2533.7	2542.3	2548.7	2557.3	2561.6	2550.9
40°	2222.7	2164.7	2102.5	2046.7	2008.1	1990.9	1984.5	1988.7	1988.7	2003.7	2003.7
42.5°	1881.5	1791.4	1699.2	1615.5	1559.7	1516.8	1497.5	1497.5	1499.6	1510.4	1516.8
45°	1598.3	1484.6	1377.3	1285.1	1207.8	1152.0	1126.3	1119.9	1117.8	1122.0	1137.0
47.5°	1381.6	1263.7	1152.0	1038.4	956.9	901.1	877.5	868.8	860.3	868.8	871.0
50°	1212.2	1089.9	971.9	858.2	772.3	723.0	692.9	680.0	677.9	677.9	682.2
52.5°	1057.6	944.0	826.0	710.2	620.0	572.8	544.9	538.5	529.9	538.5	538.5
55°	911.8	798.1	682.2	572.8	497.7	448.4	422.6	414.1	409.7	416.2	416.2
57.5°	753.1	656.5	549.3	450.5	375.5	341.1	321.8	311.1	308.9	313.2	308.9
60°	617.9	536.4	444.1	354.0	296.1	259.6	244.6	240.3	236.0	240.3	240.3
62.5°	489.1	420.5	345.4	276.8	227.4	201.7	184.5	184.5	182.4	182.4	184.5
65°	362.6	308.9	255.3	197.4	158.8	139.4	126.5	126.5	124.4	126.5	124.4
67.5°	263.9	227.4	184.5	143.8	113.7	103.0	94.4	88.0	92.3	88.0	85.8
70°	193.1	163.0	133.0	109.4	88.0	77.3	70.8	68.6	64.4	64.4	64.4
72.5°	128.7	109.4	90.1	70.8	57.9	47.2	45.0	40.8	36.5	38.6	42.9
75°	85.8	72.9	64.4	51.5	38.6	38.6	25.8	25.8	21.5	25.8	19.3
77.5°	60.0	49.4	38.6	32.1	25.8	23.6	17.1	17.1	15.0	15.0	15.0
80°	42.9	36.5	27.9	23.6	17.1	17.1	15.0	12.9	10.7	10.7	12.9
82.5°	25.8	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°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4419.5	4417.3	4421.6	4421.6	4434.5	4432.3	4438.8	4438.8	4434.5	4436.7	4445.2
5°	4434.5	4441.0	4453.8	4464.6	4483.8	4492.5	4503.2	4513.9	4516.0	4522.5	4528.9
7.5°	4434.5	4456.0	4471.0	4490.3	4516.0	4531.1	4554.6	4574.0	4582.5	4593.2	4606.1
10°	4425.9	4447.3	4475.2	4496.7	4528.9	4552.5	4576.1	4606.1	4619.0	4636.1	4653.4
12.5°	4408.8	4432.3	4462.4	4490.3	4526.7	4548.2	4578.2	4606.1	4625.5	4649.0	4668.4
15°	4383.1	4410.9	4438.8	4466.7	4505.3	4531.1	4559.0	4591.1	4610.4	4636.1	4653.4
17.5°	4342.3	4372.3	4398.1	4423.8	4460.2	4490.3	4516.0	4546.1	4565.4	4586.9	4610.4
20°	4292.9	4320.8	4348.7	4370.2	4406.6	4432.3	4460.2	4488.1	4503.2	4507.5	4543.9
22.5°	4230.7	4250.0	4271.4	4305.8	4327.2	4350.8	4376.6	4402.3	4417.3	4441.0	4453.8
25°	4127.7	4147.0	4170.6	4185.6	4211.4	4230.7	4256.4	4284.3	4292.9	4310.1	4322.9
27.5°	3984.0	3994.7	4005.5	4018.3	4033.3	4044.0	4059.1	4072.0	4080.5	4089.1	4097.7
30°	3756.5	3756.5	3756.5	3748.0	3754.4	3760.9	3763.0	3760.9	3760.9	3758.7	3758.7
32.5°	3456.2	3439.1	3419.7	3402.6	3396.1	3387.6	3383.3	3376.8	3366.1	3359.7	3361.8
35°	3050.7	3012.1	2988.5	2967.1	2949.9	2937.0	2930.6	2924.2	2922.0	2913.5	2904.8
37.5°	2544.4	2516.5	2499.4	2486.5	2471.5	2458.6	2460.7	2462.9	2469.3	2465.1	2467.2
40°	2008.1	2001.6	2008.1	1993.1	1988.7	1993.1	2003.7	2018.8	2027.4	2036.0	2051.0
42.5°	1527.5	1538.2	1553.3	1553.3	1559.7	1568.3	1581.1	1604.8	1617.6	1632.6	1649.8
45°	1149.9	1162.8	1182.1	1188.5	1192.8	1203.5	1218.6	1237.9	1246.4	1259.3	1274.3
47.5°	886.1	894.6	905.3	916.1	926.8	931.1	946.1	946.1	956.9	965.4	969.7
50°	690.8	699.4	707.9	714.4	718.7	725.2	729.4	735.9	738.0	742.3	744.4
52.5°	540.6	551.4	551.4	555.6	562.1	568.5	566.4	568.5	570.6	570.6	577.1
55°	422.6	422.6	429.1	429.1	433.4	431.2	433.4	433.4	433.4	433.4	435.5
57.5°	315.3	317.5	324.0	319.7	317.5	321.8	317.5	321.8	319.7	324.0	317.5
60°	242.4	242.4	244.6	244.6	246.7	246.7	246.7	244.6	244.6	242.4	242.4
62.5°	182.4	184.5	186.7	184.5	184.5	184.5	182.4	182.4	180.2	178.0	178.0
65°	122.3	120.2	124.4	120.2	122.3	122.3	120.2	122.3	115.9	118.0	115.9
67.5°	88.0	85.8	83.7	85.8	83.7	81.5	81.5	83.7	85.8	79.4	79.4
70°	57.9	60.0	57.9	60.0	62.3	62.3	60.0	57.9	60.0	55.8	57.9
72.5°	36.5	36.5	36.5	36.5	36.5	38.6	38.6	38.6	34.4	34.4	32.1
75°	17.1	23.6	19.3	17.1	23.6	23.6	21.5	21.5	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: P249002

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4443.1	4441.0	4443.1	4445.2	4443.1	4441.0	4443.1	4445.2	4436.7	4434.5	4438.8
5°	4537.5	4537.5	4541.7	4543.9	4541.7	4537.5	4537.5	4528.9	4522.5	4516.0	4513.9
7.5°	4619.0	4623.3	4627.6	4629.7	4627.6	4623.3	4619.0	4606.1	4593.2	4582.5	4574.0
10°	4668.4	4674.8	4683.4	4687.6	4683.4	4674.8	4668.4	4653.4	4636.1	4619.0	4606.1
12.5°	4689.8	4696.3	4707.0	4704.8	4707.0	4696.3	4689.8	4668.4	4649.0	4625.5	4606.1
15°	4674.8	4683.4	4694.1	4698.4	4694.1	4683.4	4674.8	4653.4	4636.1	4610.4	4591.1
17.5°	4627.6	4640.5	4646.9	4653.4	4646.9	4640.5	4627.6	4610.4	4586.9	4565.4	4546.1
20°	4563.2	4571.9	4580.4	4582.5	4580.4	4571.9	4563.2	4543.9	4507.5	4503.2	4488.1
22.5°	4471.0	4477.5	4496.7	4490.3	4496.7	4477.5	4471.0	4453.8	4441.0	4417.3	4402.3
25°	4337.9	4344.4	4346.6	4348.7	4346.6	4344.4	4337.9	4322.9	4310.1	4292.9	4284.3
27.5°	4108.4	4108.4	4112.7	4114.9	4112.7	4108.4	4108.4	4097.7	4089.1	4080.5	4072.0
30°	3760.9	3760.9	3760.9	3771.6	3760.9	3760.9	3760.9	3758.7	3758.7	3760.9	3760.9
32.5°	3359.7	3355.4	3351.1	3355.4	3351.1	3355.4	3359.7	3361.8	3359.7	3366.1	3376.8
35°	2904.8	2902.7	2909.1	2900.6	2909.1	2902.7	2904.8	2904.8	2913.5	2922.0	2924.2
37.5°	2469.3	2465.1	2473.6	2465.1	2473.6	2465.1	2469.3	2467.2	2465.1	2469.3	2462.9
40°	2055.3	2059.6	2059.6	2076.8	2059.6	2059.6	2055.3	2051.0	2036.0	2027.4	2018.8
42.5°	1658.4	1671.3	1666.9	1679.8	1666.9	1671.3	1658.4	1649.8	1632.6	1617.6	1604.8
45°	1282.9	1291.6	1291.6	1295.8	1291.6	1291.6	1282.9	1274.3	1259.3	1246.4	1237.9
47.5°	984.7	984.7	984.7	986.9	984.7	984.7	984.7	969.7	965.4	956.9	946.1
50°	748.7	750.9	753.1	755.2	753.1	750.9	748.7	744.4	742.3	738.0	735.9
52.5°	575.0	577.1	572.8	577.1	572.8	577.1	575.0	577.1	570.6	570.6	568.5
55°	435.5	433.4	435.5	437.6	435.5	433.4	435.5	435.5	433.4	433.4	433.4
57.5°	319.7	315.3	315.3	315.3	315.3	315.3	319.7	317.5	324.0	319.7	321.8
60°	238.2	240.3	240.3	242.4	240.3	240.3	238.2	242.4	242.4	244.6	244.6
62.5°	175.9	182.4	178.0	182.4	178.0	182.4	175.9	178.0	178.0	180.2	182.4
65°	113.7	113.7	113.7	115.9	113.7	113.7	113.7	115.9	118.0	115.9	122.3
67.5°	77.3	79.4	83.7	81.5	83.7	79.4	77.3	79.4	79.4	85.8	83.7
70°	62.3	55.8	55.8	62.3	55.8	55.8	62.3	57.9	55.8	60.0	57.9
72.5°	36.5	32.1	36.5	36.5	36.5	32.1	36.5	32.1	34.4	34.4	38.6
75°	19.3	17.1	15.0	21.5	15.0	17.1	19.3	19.3	19.3	19.3	21.5
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: P249002

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4438.8	4432.3	4434.5	4421.6	4421.6	4417.3	4419.5	4408.8	4404.5	4400.2	4406.6
5°	4503.2	4492.5	4483.8	4464.6	4453.8	4441.0	4434.5	4417.3	4402.3	4389.4	4387.3
7.5°	4554.6	4531.1	4516.0	4490.3	4471.0	4456.0	4434.5	4410.9	4391.6	4374.4	4361.6
10°	4576.1	4552.5	4528.9	4496.7	4475.2	4447.3	4425.9	4395.9	4370.2	4346.6	4331.5
12.5°	4578.2	4548.2	4526.7	4490.3	4462.4	4432.3	4408.8	4374.4	4344.4	4320.8	4297.2
15°	4559.0	4531.1	4505.3	4466.7	4438.8	4410.9	4383.1	4346.6	4318.7	4290.8	4273.6
17.5°	4516.0	4490.3	4460.2	4423.8	4398.1	4372.3	4342.3	4312.2	4280.0	4250.0	4228.5
20°	4460.2	4432.3	4406.6	4370.2	4348.7	4320.8	4292.9	4260.8	4235.0	4204.9	4181.4
22.5°	4376.6	4350.8	4327.2	4305.8	4271.4	4250.0	4230.7	4194.3	4168.5	4140.6	4114.9
25°	4256.4	4230.7	4211.4	4185.6	4170.6	4147.0	4127.7	4095.5	4072.0	4046.2	4024.7
27.5°	4059.1	4044.0	4033.3	4018.3	4005.5	3994.7	3984.0	3958.2	3941.1	3917.5	3896.0
30°	3763.0	3760.9	3754.4	3748.0	3756.5	3756.5	3756.5	3752.3	3737.3	3720.1	3705.0
32.5°	3383.3	3387.6	3396.1	3402.6	3419.7	3439.1	3456.2	3464.8	3464.8	3454.1	3447.6
35°	2930.6	2937.0	2949.9	2967.1	2988.5	3012.1	3050.7	3059.4	3065.7	3065.7	3057.1
37.5°	2460.7	2458.6	2471.5	2486.5	2499.4	2516.5	2544.4	2550.9	2561.6	2557.3	2548.7
40°	2003.7	1993.1	1988.7	1993.1	2008.1	2001.6	2008.1	2003.7	2003.7	1988.7	1988.7
42.5°	1581.1	1568.3	1559.7	1553.3	1553.3	1538.2	1527.5	1516.8	1510.4	1499.6	1497.5
45°	1218.6	1203.5	1192.8	1188.5	1182.1	1162.8	1149.9	1137.0	1122.0	1117.8	1119.9
47.5°	946.1	931.1	926.8	916.1	905.3	894.6	886.1	871.0	868.8	860.3	868.8
50°	729.4	725.2	718.7	714.4	707.9	699.4	690.8	682.2	677.9	677.9	680.0
52.5°	566.4	568.5	562.1	555.6	551.4	551.4	540.6	538.5	538.5	529.9	538.5
55°	433.4	431.2	433.4	429.1	429.1	422.6	422.6	416.2	416.2	409.7	414.1
57.5°	317.5	321.8	317.5	319.7	324.0	317.5	315.3	308.9	313.2	308.9	311.1
60°	246.7	246.7	246.7	244.6	244.6	242.4	242.4	240.3	240.3	236.0	240.3
62.5°	182.4	184.5	184.5	184.5	186.7	184.5	182.4	184.5	182.4	182.4	184.5
65°	120.2	122.3	122.3	120.2	124.4	120.2	122.3	124.4	126.5	124.4	126.5
67.5°	81.5	81.5	83.7	85.8	83.7	85.8	88.0	85.8	88.0	92.3	88.0
70°	60.0	62.3	62.3	60.0	57.9	60.0	57.9	64.4	64.4	64.4	68.6
72.5°	38.6	38.6	36.5	36.5	36.5	36.5	36.5	42.9	38.6	36.5	40.8
75°	21.5	23.6	23.6	17.1	19.3	23.6	17.1	19.3	25.8	21.5	25.8
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: P249002

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4389.4	4389.4	4387.3	4383.1	4374.4	4374.4	4372.3	4365.8	4361.6	4359.4	4359.4
5°	4368.0	4359.4	4350.8	4327.2	4327.2	4322.9	4310.1	4301.5	4297.2	4286.4	4282.2
7.5°	4348.7	4322.9	4307.9	4292.9	4273.6	4265.0	4250.0	4243.5	4228.5	4217.8	4211.4
10°	4301.5	4284.3	4265.0	4241.4	4226.4	4209.3	4192.0	4179.2	4159.9	4149.1	4140.6
12.5°	4269.3	4243.5	4226.4	4200.6	4174.9	4159.9	4136.3	4121.3	4102.0	4080.5	4067.6
15°	4239.3	4211.4	4187.8	4159.9	4132.0	4114.9	4087.0	4069.8	4041.9	4020.5	4005.5
17.5°	4194.3	4170.6	4144.9	4110.5	4084.8	4063.4	4033.3	4011.9	3986.1	3958.2	3943.2
20°	4147.0	4119.1	4093.4	4059.1	4033.3	4007.6	3977.6	3954.0	3923.9	3898.2	3881.0
22.5°	4084.8	4052.6	4031.2	3996.8	3966.8	3939.0	3911.1	3883.2	3855.3	3833.8	3814.5
25°	3994.7	3960.3	3936.8	3908.9	3881.0	3859.6	3825.2	3808.1	3780.2	3760.9	3741.5
27.5°	3865.9	3840.2	3818.8	3790.9	3767.3	3750.2	3724.4	3707.3	3683.6	3666.5	3651.4
30°	3677.2	3655.8	3636.4	3608.5	3591.4	3576.4	3552.7	3537.7	3520.6	3501.2	3497.0
32.5°	3424.1	3406.8	3387.6	3368.2	3355.4	3346.8	3327.4	3318.9	3301.8	3291.0	3280.3
35°	3042.1	3027.1	3016.4	3007.9	3003.5	3005.7	3001.4	3010.0	3014.2	3012.1	3014.2
37.5°	2542.3	2533.7	2538.0	2544.4	2565.9	2593.8	2619.5	2658.1	2683.9	2709.7	2733.2
40°	1984.5	1990.9	2008.1	2046.7	2102.5	2164.7	2222.7	2295.6	2368.5	2420.0	2467.2
42.5°	1497.5	1516.8	1559.7	1615.5	1699.2	1791.4	1881.5	1988.7	2076.8	2162.5	2222.7
45°	1126.3	1152.0	1207.8	1285.1	1377.3	1484.6	1598.3	1718.4	1823.6	1911.6	1978.0
47.5°	877.5	901.1	956.9	1038.4	1152.0	1263.7	1381.6	1506.1	1615.5	1701.3	1759.2
50°	692.9	723.0	772.3	858.2	971.9	1089.9	1212.2	1334.4	1437.4	1510.4	1561.9
52.5°	544.9	572.8	620.0	710.2	826.0	944.0	1057.6	1177.8	1267.9	1338.7	1373.1
55°	422.6	448.4	497.7	572.8	682.2	798.1	911.8	1014.8	1098.4	1149.9	1182.1
57.5°	321.8	341.1	375.5	450.5	549.3	656.5	753.1	856.0	920.4	956.9	978.3
60°	244.6	259.6	296.1	354.0	444.1	536.4	617.9	695.1	746.6	776.6	798.1
62.5°	184.5	201.7	227.4	276.8	345.4	420.5	489.1	547.1	590.0	609.3	624.3
65°	126.5	139.4	158.8	197.4	255.3	308.9	362.6	405.5	433.4	454.9	463.4
67.5°	94.4	103.0	113.7	143.8	184.5	227.4	263.9	293.9	324.0	332.6	347.6
70°	70.8	77.3	88.0	109.4	133.0	163.0	193.1	210.3	231.7	246.7	251.1
72.5°	45.0	47.2	57.9	70.8	90.1	109.4	128.7	143.8	156.7	165.2	169.5
75°	25.8	38.6	38.6	51.5	64.4	72.9	85.8	96.5	103.0	109.4	109.4
77.5°	17.1	23.6	25.8	32.1	38.6	49.4	60.0	66.5	72.9	75.1	75.1
80°	15.0	17.1	17.1	23.6	27.9	36.5	42.9	45.0	49.4	51.5	55.8
82.5°	6.4	8.6	10.7	17.1	19.3	19.3	25.8	27.9	32.1	34.4	34.4
85°	2.1	4.3	4.3	6.4	10.7	12.9	15.0	17.1	19.3	19.3	21.5
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: P249002

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7	4393.7
2.5°	4355.1	4357.3	4348.7	4346.6	4342.3	4344.4	4348.7
5°	4275.8	4277.9	4269.3	4260.8	4260.8	4258.5	4260.8
7.5°	4200.6	4202.8	4189.9	4185.6	4177.0	4179.2	4179.2
10°	4125.6	4125.6	4106.3	4104.1	4097.7	4095.5	4095.5
12.5°	4052.6	4046.2	4031.2	4022.6	4026.9	4014.0	4014.0
15°	3988.2	3977.6	3958.2	3951.8	3941.1	3936.8	3936.8
17.5°	3921.7	3913.2	3896.0	3883.2	3870.3	3868.1	3870.3
20°	3857.4	3848.8	3827.3	3818.8	3808.1	3808.1	3803.8
22.5°	3793.0	3784.4	3765.2	3758.7	3743.7	3743.7	3745.8
25°	3726.5	3720.1	3698.6	3694.4	3692.2	3683.6	3687.9
27.5°	3636.4	3632.1	3615.0	3608.5	3600.0	3597.8	3602.1
30°	3471.2	3464.8	3452.0	3445.5	3430.5	3432.6	3436.9
32.5°	3265.3	3256.7	3239.5	3233.0	3220.2	3215.9	3218.0
35°	3007.9	3001.4	2986.4	2986.4	2973.5	2969.2	2973.5
37.5°	2746.1	2752.5	2746.1	2752.5	2746.1	2743.9	2746.1
40°	2499.4	2523.0	2527.2	2550.9	2542.3	2555.1	2553.0
42.5°	2263.4	2302.0	2317.1	2336.3	2332.1	2340.6	2347.1
45°	2025.2	2057.4	2072.4	2085.3	2087.5	2091.8	2093.9
47.5°	1799.9	1825.7	1827.8	1842.9	1840.7	1840.7	1847.2
50°	1589.8	1606.9	1611.1	1621.9	1613.3	1609.0	1611.1
52.5°	1394.5	1411.7	1407.3	1411.7	1401.0	1396.6	1398.8
55°	1195.0	1203.5	1203.5	1203.5	1190.7	1190.7	1190.7
57.5°	991.1	993.4	989.0	991.1	989.0	976.1	974.0
60°	804.6	804.6	802.3	804.6	798.1	791.7	791.7
62.5°	628.6	632.9	641.5	632.9	628.6	632.9	626.4
65°	469.9	478.4	476.2	480.6	478.4	478.4	474.1
67.5°	354.0	356.1	358.3	360.5	360.5	360.5	360.5
70°	259.6	266.1	263.9	263.9	263.9	263.9	276.8
72.5°	173.8	182.4	180.2	184.5	184.5	188.8	184.5
75°	118.0	126.5	122.3	128.7	126.5	122.3	133.0
77.5°	79.4	83.7	85.8	88.0	85.8	83.7	85.8
80°	55.8	60.0	57.9	60.0	60.0	60.0	62.3
82.5°	34.4	40.8	38.6	40.8	38.6	40.8	40.8
85°	23.6	25.8	21.5	25.8	23.6	23.6	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)