

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: P248678

Luminaire Tested: **LD8B70D010 ER8B70840 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248678  
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 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7414.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 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

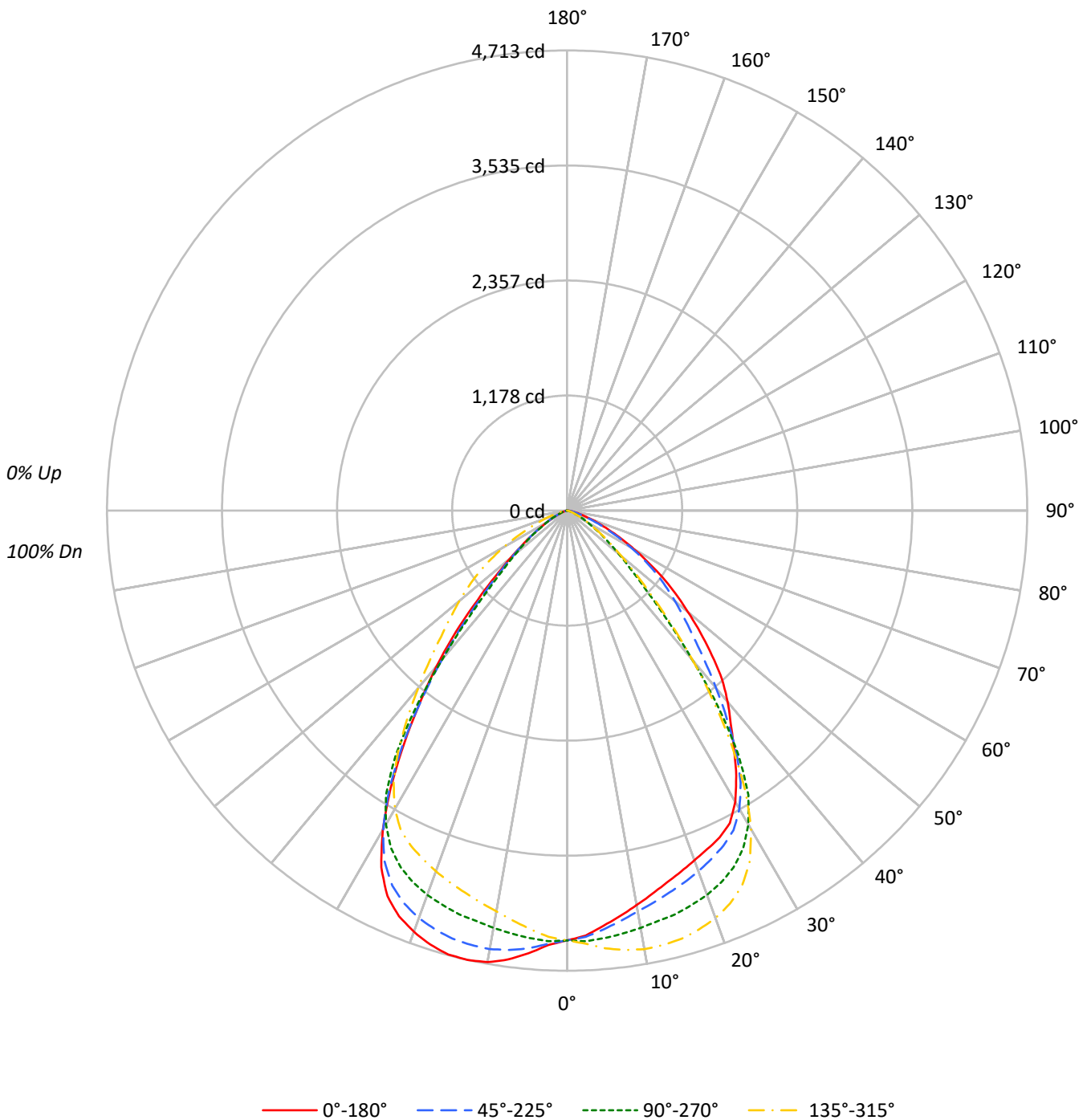
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	135726	135726	135726	135726
5°	132118	136043	140900	136043
10°	128464	135866	147038	135866
15°	125899	136673	150254	136673
20°	125043	137454	150642	137454
25°	125699	137178	148219	137178
30°	122590	132158	134533	132158
35°	112131	115285	109383	115285
40°	102949	80194	83744	80194
45°	91475	48925	56609	48925
50°	77428	32679	36291	32679
55°	64127	22300	23569	22300
60°	48913	14845	14974	14845
65°	34651	9252	8471	9252
70°	24992	6194	5626	6194
75°	15870	3074	2562	3074
80°	11081	2291	1900	2291
85°	9907	0	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.9	5.7
10°-20°	1213.2	16.4
20°-30°	1837.0	24.8
30°-40°	1841.1	24.8
40°-50°	1156.1	15.6
50°-60°	616.1	8.3
60°-70°	253.4	3.4
70°-80°	66.9	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°	3469.1	46.8
0°-40°	5310.2	71.6
0°-60°	7082.4	95.5
0°-90°	7414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7414.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4402	4402	4402	4402	4402	
5°	4268	4395	4552	4395	4268	403
15°	3944	4281	4707	4281	3944	1115
25°	3694	4032	4356	4032	3694	1694
35°	2979	3062	2906	3062	2979	1866
45°	2098	1122	1298	1122	2098	1613
55°	1193	415	438	415	1193	1063
65°	475	127	116	127	475	493
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°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4356.3	4352.0	4349.9	4354.2	4356.3	4364.9	4362.8	4367.0	4367.0	4369.3	4373.5
5°	4268.2	4266.0	4268.2	4268.2	4276.8	4285.4	4283.3	4289.7	4294.0	4304.8	4309.0
7.5°	4186.6	4186.6	4184.4	4193.0	4197.3	4210.2	4208.0	4218.8	4225.2	4235.9	4251.0
10°	4102.7	4102.7	4104.8	4111.3	4113.5	4132.8	4132.8	4147.8	4156.4	4167.2	4186.6
12.5°	4021.1	4021.1	4034.0	4029.7	4038.2	4053.3	4059.7	4074.8	4087.7	4109.2	4128.6
15°	3943.7	3943.7	3948.0	3958.7	3965.2	3984.5	3995.2	4012.5	4027.5	4049.0	4077.0
17.5°	3877.1	3874.9	3877.1	3890.0	3902.9	3920.1	3928.6	3950.1	3965.2	3993.1	4019.0
20°	3810.5	3814.8	3814.8	3825.5	3834.1	3855.6	3864.1	3887.9	3905.0	3930.8	3960.9
22.5°	3752.4	3750.3	3750.3	3765.3	3771.8	3791.1	3799.7	3821.2	3840.5	3862.0	3890.0
25°	3694.4	3690.1	3698.7	3700.8	3705.1	3726.6	3733.0	3748.1	3767.5	3786.8	3814.8
27.5°	3608.4	3604.2	3606.3	3614.9	3621.3	3638.5	3642.8	3657.9	3672.9	3690.1	3713.8
30°	3442.9	3438.6	3436.5	3451.6	3458.0	3470.8	3477.3	3503.1	3507.4	3526.8	3543.9
32.5°	3223.7	3221.6	3225.9	3238.7	3245.2	3262.4	3271.0	3286.1	3296.8	3307.6	3324.7
35°	2978.7	2974.4	2978.7	2991.7	2991.7	3006.7	3013.2	3019.5	3017.4	3019.5	3015.3
37.5°	2751.0	2748.7	2751.0	2757.3	2751.0	2757.3	2751.0	2738.0	2714.4	2688.6	2662.8
40°	2557.5	2559.6	2546.8	2555.4	2531.7	2527.4	2503.8	2471.5	2424.3	2372.7	2299.6
42.5°	2351.2	2344.7	2336.2	2340.4	2321.1	2306.0	2267.3	2226.6	2166.3	2080.4	1992.2
45°	2097.6	2095.5	2091.1	2089.0	2076.1	2061.0	2028.8	1981.5	1914.9	1826.8	1721.4
47.5°	1850.4	1844.0	1844.0	1846.1	1831.1	1828.9	1803.1	1762.3	1704.3	1618.3	1508.7
50°	1614.0	1611.8	1616.2	1624.8	1614.0	1609.7	1592.6	1564.6	1513.0	1440.0	1336.7
52.5°	1401.2	1399.1	1403.4	1414.1	1409.8	1414.1	1397.0	1375.5	1341.1	1270.1	1179.9
55°	1192.8	1192.8	1192.8	1205.6	1205.6	1205.6	1197.1	1184.2	1151.9	1100.4	1016.6
57.5°	975.7	977.8	990.8	992.9	990.8	995.1	992.9	980.0	958.6	922.0	857.5
60°	793.1	793.1	799.5	806.0	803.8	806.0	806.0	799.5	778.0	747.9	696.4
62.5°	627.5	634.0	629.7	634.0	642.6	634.0	629.7	625.4	610.4	591.0	548.0
65°	474.9	479.3	479.3	481.4	477.1	479.3	470.7	464.2	455.7	434.2	406.2
67.5°	361.1	361.1	361.1	361.1	358.9	356.8	354.6	348.2	333.1	324.6	294.4
70°	277.2	264.3	264.3	264.3	264.3	266.5	260.1	251.5	247.2	232.1	210.6
72.5°	184.8	189.1	184.8	184.8	180.5	182.7	174.1	169.8	165.5	156.9	144.0
75°	133.2	122.5	126.8	129.0	122.5	126.8	118.2	109.6	109.6	103.1	96.7
77.5°	86.0	83.9	86.0	88.1	86.0	83.9	79.5	75.2	75.2	73.1	66.6
80°	62.4	60.2	60.2	60.2	58.0	60.2	55.9	55.9	51.6	49.4	45.1
82.5°	40.9	40.9	38.7	40.9	38.7	40.9	34.4	34.4	34.4	32.2	28.0
85°	28.0	23.6	23.6	25.8	21.5	25.8	23.6	21.5	19.4	19.4	17.2
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°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4380.0	4382.1	4382.1	4390.8	4395.0	4397.1	4397.1	4414.4	4407.9	4412.2	4416.5
5°	4317.7	4330.5	4334.8	4334.8	4358.5	4367.0	4375.6	4395.0	4397.1	4410.0	4425.1
7.5°	4257.4	4272.5	4281.2	4300.4	4315.5	4330.5	4356.3	4369.3	4382.1	4399.3	4418.6
10°	4199.4	4216.7	4233.8	4248.9	4272.5	4291.9	4309.0	4339.1	4354.2	4377.8	4403.6
12.5°	4143.6	4167.2	4182.3	4208.0	4233.8	4251.0	4276.8	4304.8	4328.4	4352.0	4382.1
15°	4094.1	4122.1	4139.3	4167.2	4195.2	4218.8	4246.7	4281.2	4298.3	4326.3	4354.2
17.5°	4040.4	4070.5	4092.0	4117.8	4152.2	4177.9	4201.6	4235.9	4257.4	4287.5	4319.8
20°	3984.5	4014.6	4040.4	4066.2	4100.6	4126.3	4154.3	4188.7	4212.3	4242.4	4268.2
22.5°	3917.9	3945.9	3973.7	4003.8	4038.2	4059.7	4092.0	4122.1	4147.8	4175.8	4201.6
25°	3831.9	3866.4	3887.9	3915.7	3943.7	3967.3	4001.7	4031.8	4053.3	4079.1	4102.7
27.5°	3730.9	3756.8	3773.9	3797.5	3825.5	3847.0	3872.7	3902.9	3924.4	3948.0	3965.2
30°	3559.0	3582.7	3597.7	3614.9	3642.8	3662.2	3683.7	3711.6	3726.6	3743.8	3758.9
32.5°	3333.3	3352.7	3361.2	3374.2	3393.5	3412.8	3430.1	3453.7	3460.1	3470.8	3470.8
35°	3006.7	3010.9	3008.8	3013.2	3021.7	3032.4	3047.5	3062.5	3071.1	3071.1	3064.7
37.5°	2624.1	2598.4	2570.4	2548.9	2542.5	2538.1	2546.8	2553.2	2561.8	2566.1	2555.4
40°	2226.6	2168.5	2106.2	2050.3	2011.6	1994.4	1988.0	1992.2	1992.2	2007.3	2007.3
42.5°	1884.8	1794.5	1702.2	1618.3	1562.4	1519.5	1500.1	1500.1	1502.2	1513.0	1519.5
45°	1601.1	1487.2	1379.7	1287.4	1210.0	1154.1	1128.3	1121.9	1119.7	1124.0	1139.0
47.5°	1384.1	1265.9	1154.1	1040.2	958.6	902.7	879.0	870.4	861.8	870.4	872.6
50°	1214.3	1091.8	973.6	859.7	773.7	724.2	694.2	681.2	679.1	679.1	683.4
52.5°	1059.5	945.6	827.5	711.4	621.1	573.8	545.9	539.4	530.9	539.4	539.4
55°	913.4	799.5	683.4	573.8	498.6	449.2	423.4	414.8	410.5	416.9	416.9
57.5°	754.4	657.6	550.2	451.3	376.1	341.7	322.4	311.6	309.4	313.8	309.4
60°	619.0	537.3	444.9	354.6	296.6	260.1	245.0	240.7	236.4	240.7	240.7
62.5°	490.0	421.3	346.0	277.2	227.8	202.0	184.8	184.8	182.7	182.7	184.8
65°	363.2	309.4	255.7	197.7	159.1	139.7	126.8	126.8	124.6	126.8	124.6
67.5°	264.3	227.8	184.8	144.0	113.9	103.1	94.6	88.1	92.4	88.1	86.0
70°	193.5	163.3	133.2	109.6	88.1	77.4	70.9	68.7	64.5	64.5	64.5
72.5°	129.0	109.6	90.2	70.9	58.0	47.2	45.1	40.9	36.5	38.7	43.0
75°	86.0	73.1	64.5	51.6	38.7	38.7	25.8	25.8	21.5	25.8	19.4
77.5°	60.2	49.4	38.7	32.2	25.8	23.6	17.2	17.2	15.0	15.0	15.0
80°	43.0	36.5	28.0	23.6	17.2	17.2	15.0	12.9	10.7	10.7	12.9
82.5°	25.8	19.4	19.4	17.2	10.7	8.6	6.5	8.6	4.3	4.3	4.3
85°	15.0	12.9	10.7	6.5	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°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4427.3	4425.1	4429.4	4429.4	4442.3	4440.1	4446.6	4446.6	4442.3	4444.4	4453.0
5°	4442.3	4448.8	4461.6	4472.4	4491.7	4500.4	4511.1	4521.9	4524.0	4530.4	4536.9
7.5°	4442.3	4463.8	4478.9	4498.1	4524.0	4539.0	4562.6	4582.0	4590.6	4601.3	4614.2
10°	4433.7	4455.2	4483.1	4504.6	4536.9	4560.5	4584.1	4614.2	4627.1	4644.3	4661.5
12.5°	4416.5	4440.1	4470.2	4498.1	4534.7	4556.2	4586.3	4614.2	4633.6	4657.2	4676.6
15°	4390.8	4418.6	4446.6	4474.5	4513.2	4539.0	4567.0	4599.2	4618.5	4644.3	4661.5
17.5°	4349.9	4380.0	4405.8	4431.5	4468.1	4498.1	4524.0	4554.1	4573.4	4594.9	4618.5
20°	4300.4	4328.4	4356.3	4377.8	4414.4	4440.1	4468.1	4496.0	4511.1	4515.4	4551.9
22.5°	4238.2	4257.4	4278.9	4313.4	4334.8	4358.5	4384.3	4410.0	4425.1	4448.8	4461.6
25°	4134.9	4154.3	4177.9	4193.0	4218.8	4238.2	4263.9	4291.9	4300.4	4317.7	4330.5
27.5°	3991.0	4001.7	4012.5	4025.3	4040.4	4051.2	4066.2	4079.1	4087.7	4096.3	4104.8
30°	3763.1	3763.1	3763.1	3754.5	3761.0	3767.5	3769.6	3767.5	3767.5	3765.3	3765.3
32.5°	3462.3	3445.1	3425.7	3408.6	3402.1	3393.5	3389.2	3382.7	3372.0	3365.6	3367.7
35°	3056.1	3017.4	2993.8	2972.3	2955.1	2942.2	2935.7	2929.3	2927.2	2918.6	2909.9
37.5°	2548.9	2521.0	2503.8	2490.9	2475.8	2462.9	2465.0	2467.3	2473.6	2469.4	2471.5
40°	2011.6	2005.1	2011.6	1996.6	1992.2	1996.6	2007.3	2022.4	2031.0	2039.6	2054.6
42.5°	1530.2	1540.9	1556.0	1556.0	1562.4	1571.1	1583.9	1607.6	1620.4	1635.5	1652.7
45°	1151.9	1164.9	1184.2	1190.6	1194.9	1205.6	1220.8	1240.0	1248.6	1261.5	1276.6
47.5°	887.6	896.2	906.9	917.7	928.4	932.7	947.8	947.8	958.6	967.1	971.4
50°	692.0	700.6	709.2	715.6	720.0	726.4	730.7	737.1	739.3	743.6	745.7
52.5°	541.6	552.3	552.3	556.6	563.1	569.5	567.4	569.5	571.6	571.6	578.1
55°	423.4	423.4	429.8	429.8	434.2	432.0	434.2	434.2	434.2	434.2	436.3
57.5°	315.9	318.1	324.6	320.2	318.1	322.4	318.1	322.4	320.2	324.6	318.1
60°	242.8	242.8	245.0	245.0	247.2	247.2	247.2	245.0	245.0	242.8	242.8
62.5°	182.7	184.8	187.0	184.8	184.8	184.8	182.7	182.7	180.5	178.3	178.3
65°	122.5	120.4	124.6	120.4	122.5	122.5	120.4	122.5	116.1	118.2	116.1
67.5°	88.1	86.0	83.9	86.0	83.9	81.6	81.6	83.9	86.0	79.5	79.5
70°	58.0	60.2	58.0	60.2	62.4	62.4	60.2	58.0	60.2	55.9	58.0
72.5°	36.5	36.5	36.5	36.5	36.5	38.7	38.7	38.7	34.4	34.4	32.2
75°	17.2	23.6	19.4	17.2	23.6	23.6	21.5	21.5	19.4	19.4	19.4
77.5°	17.2	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	6.5	8.6	8.6	10.7	8.6	8.6	6.5	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: P248678

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4450.9	4448.8	4450.9	4453.0	4450.9	4448.8	4450.9	4453.0	4444.4	4442.3	4446.6
5°	4545.5	4545.5	4549.7	4551.9	4549.7	4545.5	4545.5	4536.9	4530.4	4524.0	4521.9
7.5°	4627.1	4631.5	4635.7	4637.8	4635.7	4631.5	4627.1	4614.2	4601.3	4590.6	4582.0
10°	4676.6	4683.0	4691.6	4695.9	4691.6	4683.0	4676.6	4661.5	4644.3	4627.1	4614.2
12.5°	4698.1	4704.5	4715.2	4713.1	4715.2	4704.5	4698.1	4676.6	4657.2	4633.6	4614.2
15°	4683.0	4691.6	4702.3	4706.6	4702.3	4691.6	4683.0	4661.5	4644.3	4618.5	4599.2
17.5°	4635.7	4648.6	4655.1	4661.5	4655.1	4648.6	4635.7	4618.5	4594.9	4573.4	4554.1
20°	4571.2	4579.9	4588.5	4590.6	4588.5	4579.9	4571.2	4551.9	4515.4	4511.1	4496.0
22.5°	4478.9	4485.3	4504.6	4498.1	4504.6	4485.3	4478.9	4461.6	4448.8	4425.1	4410.0
25°	4345.5	4352.0	4354.2	4356.3	4354.2	4352.0	4345.5	4330.5	4317.7	4300.4	4291.9
27.5°	4115.6	4115.6	4119.9	4122.1	4119.9	4115.6	4115.6	4104.8	4096.3	4087.7	4079.1
30°	3767.5	3767.5	3767.5	3778.3	3767.5	3767.5	3767.5	3765.3	3765.3	3767.5	3767.5
32.5°	3365.6	3361.2	3357.0	3361.2	3357.0	3361.2	3365.6	3367.7	3365.6	3372.0	3382.7
35°	2909.9	2907.8	2914.3	2905.7	2914.3	2907.8	2909.9	2909.9	2918.6	2927.2	2929.3
37.5°	2473.6	2469.4	2478.0	2469.4	2478.0	2469.4	2473.6	2471.5	2469.4	2473.6	2467.3
40°	2058.9	2063.2	2063.2	2080.4	2063.2	2063.2	2058.9	2054.6	2039.6	2031.0	2022.4
42.5°	1661.3	1674.2	1669.9	1682.8	1669.9	1674.2	1661.3	1652.7	1635.5	1620.4	1607.6
45°	1285.2	1293.8	1293.8	1298.1	1293.8	1293.8	1285.2	1276.6	1261.5	1248.6	1240.0
47.5°	986.4	986.4	986.4	988.6	986.4	986.4	986.4	971.4	967.1	958.6	947.8
50°	750.1	752.2	754.4	756.5	754.4	752.2	750.1	745.7	743.6	739.3	737.1
52.5°	576.0	578.1	573.8	578.1	573.8	578.1	576.0	578.1	571.6	571.6	569.5
55°	436.3	434.2	436.3	438.4	436.3	434.2	436.3	436.3	434.2	434.2	434.2
57.5°	320.2	315.9	315.9	315.9	315.9	315.9	320.2	318.1	324.6	320.2	322.4
60°	238.6	240.7	240.7	242.8	240.7	240.7	238.6	242.8	242.8	245.0	245.0
62.5°	176.2	182.7	178.3	182.7	178.3	182.7	176.2	178.3	178.3	180.5	182.7
65°	113.9	113.9	113.9	116.1	113.9	113.9	113.9	116.1	118.2	116.1	122.5
67.5°	77.4	79.5	83.9	81.6	83.9	79.5	77.4	79.5	79.5	86.0	83.9
70°	62.4	55.9	55.9	62.4	55.9	55.9	62.4	58.0	55.9	60.2	58.0
72.5°	36.5	32.2	36.5	36.5	36.5	32.2	36.5	32.2	34.4	34.4	38.7
75°	19.4	17.2	15.0	21.5	15.0	17.2	19.4	19.4	19.4	19.4	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°	6.5	8.6	6.5	10.7	6.5	8.6	6.5	10.7	6.5	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: P248678

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4446.6	4440.1	4442.3	4429.4	4429.4	4425.1	4427.3	4416.5	4412.2	4407.9	4414.4
5°	4511.1	4500.4	4491.7	4472.4	4461.6	4448.8	4442.3	4425.1	4410.0	4397.1	4395.0
7.5°	4562.6	4539.0	4524.0	4498.1	4478.9	4463.8	4442.3	4418.6	4399.3	4382.1	4369.3
10°	4584.1	4560.5	4536.9	4504.6	4483.1	4455.2	4433.7	4403.6	4377.8	4354.2	4339.1
12.5°	4586.3	4556.2	4534.7	4498.1	4470.2	4440.1	4416.5	4382.1	4352.0	4328.4	4304.8
15°	4567.0	4539.0	4513.2	4474.5	4446.6	4418.6	4390.8	4354.2	4326.3	4298.3	4281.2
17.5°	4524.0	4498.1	4468.1	4431.5	4405.8	4380.0	4349.9	4319.8	4287.5	4257.4	4235.9
20°	4468.1	4440.1	4414.4	4377.8	4356.3	4328.4	4300.4	4268.2	4242.4	4212.3	4188.7
22.5°	4384.3	4358.5	4334.8	4313.4	4278.9	4257.4	4238.2	4201.6	4175.8	4147.8	4122.1
25°	4263.9	4238.2	4218.8	4193.0	4177.9	4154.3	4134.9	4102.7	4079.1	4053.3	4031.8
27.5°	4066.2	4051.2	4040.4	4025.3	4012.5	4001.7	3991.0	3965.2	3948.0	3924.4	3902.9
30°	3769.6	3767.5	3761.0	3754.5	3763.1	3763.1	3763.1	3758.9	3743.8	3726.6	3711.6
32.5°	3389.2	3393.5	3402.1	3408.6	3425.7	3445.1	3462.3	3470.8	3470.8	3460.1	3453.7
35°	2935.7	2942.2	2955.1	2972.3	2993.8	3017.4	3056.1	3064.7	3071.1	3071.1	3062.5
37.5°	2465.0	2462.9	2475.8	2490.9	2503.8	2521.0	2548.9	2555.4	2566.1	2561.8	2553.2
40°	2007.3	1996.6	1992.2	1996.6	2011.6	2005.1	2011.6	2007.3	2007.3	1992.2	1992.2
42.5°	1583.9	1571.1	1562.4	1556.0	1556.0	1540.9	1530.2	1519.5	1513.0	1502.2	1500.1
45°	1220.8	1205.6	1194.9	1190.6	1184.2	1164.9	1151.9	1139.0	1124.0	1119.7	1121.9
47.5°	947.8	932.7	928.4	917.7	906.9	896.2	887.6	872.6	870.4	861.8	870.4
50°	730.7	726.4	720.0	715.6	709.2	700.6	692.0	683.4	679.1	679.1	681.2
52.5°	567.4	569.5	563.1	556.6	552.3	552.3	541.6	539.4	539.4	530.9	539.4
55°	434.2	432.0	434.2	429.8	429.8	423.4	423.4	416.9	416.9	410.5	414.8
57.5°	318.1	322.4	318.1	320.2	324.6	318.1	315.9	309.4	313.8	309.4	311.6
60°	247.2	247.2	247.2	245.0	245.0	242.8	242.8	240.7	240.7	236.4	240.7
62.5°	182.7	184.8	184.8	184.8	187.0	184.8	182.7	184.8	182.7	182.7	184.8
65°	120.4	122.5	122.5	120.4	124.6	120.4	122.5	124.6	126.8	124.6	126.8
67.5°	81.6	81.6	83.9	86.0	83.9	86.0	88.1	86.0	88.1	92.4	88.1
70°	60.2	62.4	62.4	60.2	58.0	60.2	58.0	64.5	64.5	64.5	68.7
72.5°	38.7	38.7	36.5	36.5	36.5	36.5	36.5	43.0	38.7	36.5	40.9
75°	21.5	23.6	23.6	17.2	19.4	23.6	17.2	19.4	25.8	21.5	25.8
77.5°	12.9	12.9	12.9	12.9	12.9	12.9	17.2	15.0	15.0	15.0	17.2
80°	10.7	8.6	8.6	6.5	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: P248678

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4397.1	4397.1	4395.0	4390.8	4382.1	4382.1	4380.0	4373.5	4369.3	4367.0	4367.0
5°	4375.6	4367.0	4358.5	4334.8	4334.8	4330.5	4317.7	4309.0	4304.8	4294.0	4289.7
7.5°	4356.3	4330.5	4315.5	4300.4	4281.2	4272.5	4257.4	4251.0	4235.9	4225.2	4218.8
10°	4309.0	4291.9	4272.5	4248.9	4233.8	4216.7	4199.4	4186.6	4167.2	4156.4	4147.8
12.5°	4276.8	4251.0	4233.8	4208.0	4182.3	4167.2	4143.6	4128.6	4109.2	4087.7	4074.8
15°	4246.7	4218.8	4195.2	4167.2	4139.3	4122.1	4094.1	4077.0	4049.0	4027.5	4012.5
17.5°	4201.6	4177.9	4152.2	4117.8	4092.0	4070.5	4040.4	4019.0	3993.1	3965.2	3950.1
20°	4154.3	4126.3	4100.6	4066.2	4040.4	4014.6	3984.5	3960.9	3930.8	3905.0	3887.9
22.5°	4092.0	4059.7	4038.2	4003.8	3973.7	3945.9	3917.9	3890.0	3862.0	3840.5	3821.2
25°	4001.7	3967.3	3943.7	3915.7	3887.9	3866.4	3831.9	3814.8	3786.8	3767.5	3748.1
27.5°	3872.7	3847.0	3825.5	3797.5	3773.9	3756.8	3730.9	3713.8	3690.1	3672.9	3657.9
30°	3683.7	3662.2	3642.8	3614.9	3597.7	3582.7	3559.0	3543.9	3526.8	3507.4	3503.1
32.5°	3430.1	3412.8	3393.5	3374.2	3361.2	3352.7	3333.3	3324.7	3307.6	3296.8	3286.1
35°	3047.5	3032.4	3021.7	3013.2	3008.8	3010.9	3006.7	3015.3	3019.5	3017.4	3019.5
37.5°	2546.8	2538.1	2542.5	2548.9	2570.4	2598.4	2624.1	2662.8	2688.6	2714.4	2738.0
40°	1988.0	1994.4	2011.6	2050.3	2106.2	2168.5	2226.6	2299.6	2372.7	2424.3	2471.5
42.5°	1500.1	1519.5	1562.4	1618.3	1702.2	1794.5	1884.8	1992.2	2080.4	2166.3	2226.6
45°	1128.3	1154.1	1210.0	1287.4	1379.7	1487.2	1601.1	1721.4	1826.8	1914.9	1981.5
47.5°	879.0	902.7	958.6	1040.2	1154.1	1265.9	1384.1	1508.7	1618.3	1704.3	1762.3
50°	694.2	724.2	773.7	859.7	973.6	1091.8	1214.3	1336.7	1440.0	1513.0	1564.6
52.5°	545.9	573.8	621.1	711.4	827.5	945.6	1059.5	1179.9	1270.1	1341.1	1375.5
55°	423.4	449.2	498.6	573.8	683.4	799.5	913.4	1016.6	1100.4	1151.9	1184.2
57.5°	322.4	341.7	376.1	451.3	550.2	657.6	754.4	857.5	922.0	958.6	980.0
60°	245.0	260.1	296.6	354.6	444.9	537.3	619.0	696.4	747.9	778.0	799.5
62.5°	184.8	202.0	227.8	277.2	346.0	421.3	490.0	548.0	591.0	610.4	625.4
65°	126.8	139.7	159.1	197.7	255.7	309.4	363.2	406.2	434.2	455.7	464.2
67.5°	94.6	103.1	113.9	144.0	184.8	227.8	264.3	294.4	324.6	333.1	348.2
70°	70.9	77.4	88.1	109.6	133.2	163.3	193.5	210.6	232.1	247.2	251.5
72.5°	45.1	47.2	58.0	70.9	90.2	109.6	129.0	144.0	156.9	165.5	169.8
75°	25.8	38.7	38.7	51.6	64.5	73.1	86.0	96.7	103.1	109.6	109.6
77.5°	17.2	23.6	25.8	32.2	38.7	49.4	60.2	66.6	73.1	75.2	75.2
80°	15.0	17.2	17.2	23.6	28.0	36.5	43.0	45.1	49.4	51.6	55.9
82.5°	6.5	8.6	10.7	17.2	19.4	19.4	25.8	28.0	32.2	34.4	34.4
85°	2.1	4.3	4.3	6.5	10.7	12.9	15.0	17.2	19.4	19.4	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: P248678

CATALOG NUMBER: LD8B70D010 ER8B70840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4362.8	4364.9	4356.3	4354.2	4349.9	4352.0	4356.3
5°	4283.3	4285.4	4276.8	4268.2	4268.2	4266.0	4268.2
7.5°	4208.0	4210.2	4197.3	4193.0	4184.4	4186.6	4186.6
10°	4132.8	4132.8	4113.5	4111.3	4104.8	4102.7	4102.7
12.5°	4059.7	4053.3	4038.2	4029.7	4034.0	4021.1	4021.1
15°	3995.2	3984.5	3965.2	3958.7	3948.0	3943.7	3943.7
17.5°	3928.6	3920.1	3902.9	3890.0	3877.1	3874.9	3877.1
20°	3864.1	3855.6	3834.1	3825.5	3814.8	3814.8	3810.5
22.5°	3799.7	3791.1	3771.8	3765.3	3750.3	3750.3	3752.4
25°	3733.0	3726.6	3705.1	3700.8	3698.7	3690.1	3694.4
27.5°	3642.8	3638.5	3621.3	3614.9	3606.3	3604.2	3608.4
30°	3477.3	3470.8	3458.0	3451.6	3436.5	3438.6	3442.9
32.5°	3271.0	3262.4	3245.2	3238.7	3225.9	3221.6	3223.7
35°	3013.2	3006.7	2991.7	2991.7	2978.7	2974.4	2978.7
37.5°	2751.0	2757.3	2751.0	2757.3	2751.0	2748.7	2751.0
40°	2503.8	2527.4	2531.7	2555.4	2546.8	2559.6	2557.5
42.5°	2267.3	2306.0	2321.1	2340.4	2336.2	2344.7	2351.2
45°	2028.8	2061.0	2076.1	2089.0	2091.1	2095.5	2097.6
47.5°	1803.1	1828.9	1831.1	1846.1	1844.0	1844.0	1850.4
50°	1592.6	1609.7	1614.0	1624.8	1616.2	1611.8	1614.0
52.5°	1397.0	1414.1	1409.8	1414.1	1403.4	1399.1	1401.2
55°	1197.1	1205.6	1205.6	1205.6	1192.8	1192.8	1192.8
57.5°	992.9	995.1	990.8	992.9	990.8	977.8	975.7
60°	806.0	806.0	803.8	806.0	799.5	793.1	793.1
62.5°	629.7	634.0	642.6	634.0	629.7	634.0	627.5
65°	470.7	479.3	477.1	481.4	479.3	479.3	474.9
67.5°	354.6	356.8	358.9	361.1	361.1	361.1	361.1
70°	260.1	266.5	264.3	264.3	264.3	264.3	277.2
72.5°	174.1	182.7	180.5	184.8	184.8	189.1	184.8
75°	118.2	126.8	122.5	129.0	126.8	122.5	133.2
77.5°	79.5	83.9	86.0	88.1	86.0	83.9	86.0
80°	55.9	60.2	58.0	60.2	60.2	60.2	62.4
82.5°	34.4	40.9	38.7	40.9	38.7	40.9	40.9
85°	23.6	25.8	21.5	25.8	23.6	23.6	28.0
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)