

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: P248669

Luminaire Tested: **LD8B70D010 ER8B70835 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248669  
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 ER8B70835 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7463.0 lumens  
Efficiency: N/A  
Efficacy: 98.3 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

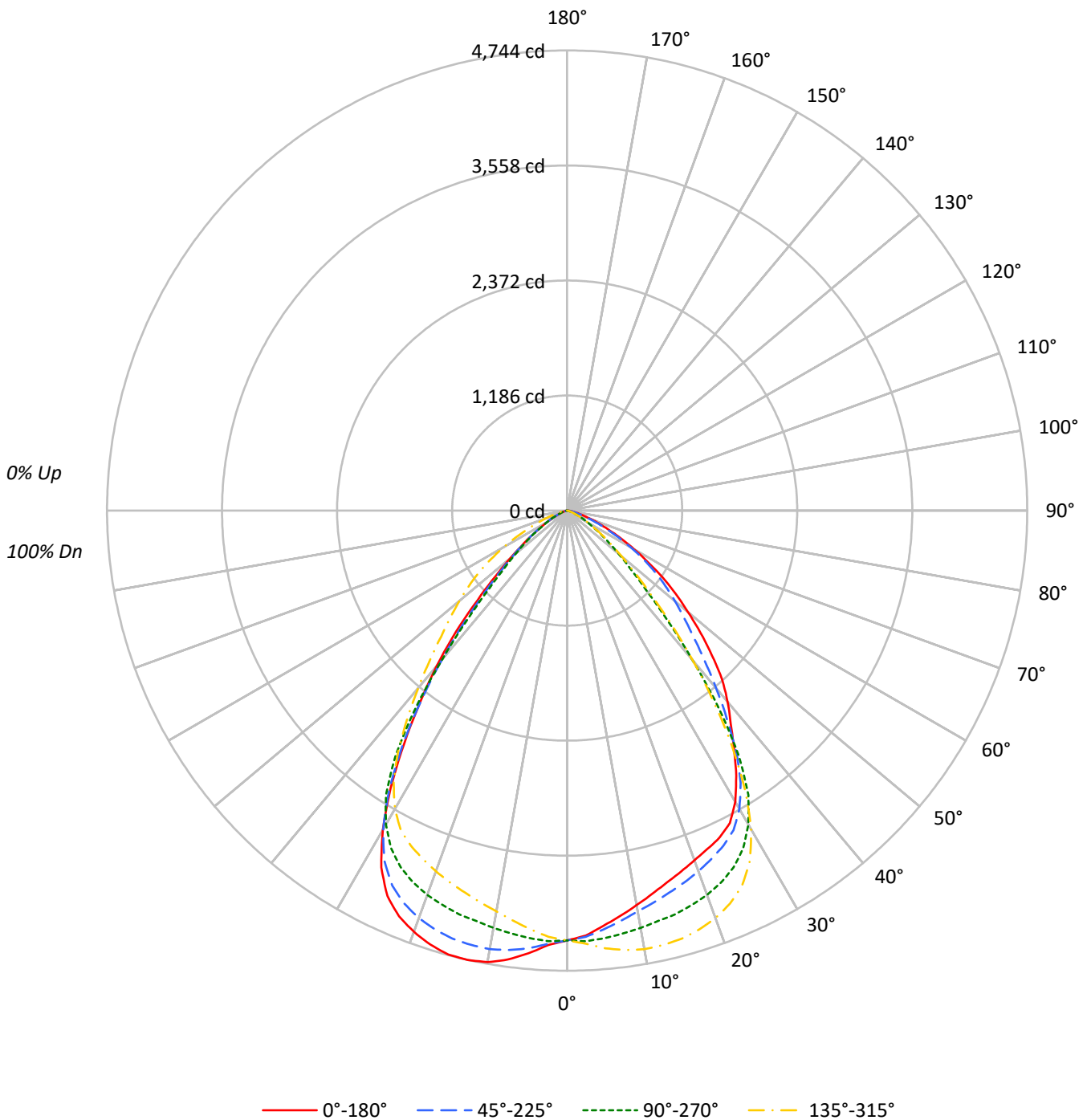
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	136620	136620	136620	136620
5°	132991	136941	141832	136941
10°	129312	136765	148009	136765
15°	126729	137574	151250	137574
20°	125866	138363	151636	138363
25°	126529	138083	149199	138083
30°	123399	133030	135419	133030
35°	112872	116050	110105	116050
40°	103630	80725	84300	80725
45°	92076	49248	56984	49248
50°	77937	32895	36531	32895
55°	64551	22445	23725	22445
60°	49233	14943	15073	14943
65°	34885	9310	8522	9310
70°	25163	6239	5662	6239
75°	15977	3098	2573	3098
80°	11152	2309	1918	2309
85°	9942	0	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.7	5.7
10°-20°	1221.2	16.4
20°-30°	1849.1	24.8
30°-40°	1853.3	24.8
40°-50°	1163.8	15.6
50°-60°	620.2	8.3
60°-70°	255.0	3.4
70°-80°	67.4	0.9
80°-90°	11.4	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°	3492.0	46.8
0°-40°	5345.3	71.6
0°-60°	7129.2	95.5
0°-90°	7463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7463.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4430	4430	4430	4430	4430	
5°	4296	4424	4582	4424	4296	405
15°	3970	4309	4738	4309	3970	1123
25°	3719	4058	4385	4058	3719	1706
35°	2998	3083	2925	3083	2998	1878
45°	2111	1129	1307	1129	2111	1624
55°	1201	418	441	418	1201	1070
65°	478	128	117	128	478	496
75°	134	26	22	26	134	152
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°	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5
2.5°	4385.1	4380.8	4378.6	4383.0	4385.1	4393.8	4391.6	4395.9	4395.9	4398.1	4402.4
5°	4296.4	4294.2	4296.4	4296.4	4305.1	4313.7	4311.6	4318.1	4322.4	4333.2	4337.5
7.5°	4214.3	4214.3	4212.0	4220.7	4225.0	4238.0	4235.8	4246.7	4253.2	4263.9	4279.1
10°	4129.8	4129.8	4132.0	4138.5	4140.7	4160.1	4160.1	4175.3	4183.9	4194.8	4214.3
12.5°	4047.7	4047.7	4060.7	4056.3	4064.9	4080.1	4086.6	4101.7	4114.7	4136.3	4155.8
15°	3969.7	3969.7	3974.1	3984.9	3991.4	4010.9	4021.6	4039.0	4054.2	4075.8	4103.9
17.5°	3902.7	3900.5	3902.7	3915.7	3928.7	3946.0	3954.6	3976.2	3991.4	4019.5	4045.5
20°	3835.6	3840.0	3840.0	3850.8	3859.4	3881.0	3889.7	3913.5	3930.8	3956.7	3987.1
22.5°	3777.2	3775.1	3775.1	3790.2	3796.7	3816.1	3824.8	3846.4	3865.9	3887.5	3915.7
25°	3718.8	3714.4	3723.2	3725.3	3729.6	3751.2	3757.7	3772.9	3792.4	3811.9	3840.0
27.5°	3632.3	3628.0	3630.1	3638.8	3645.3	3662.5	3666.9	3682.0	3697.2	3714.4	3738.3
30°	3465.6	3461.4	3459.2	3474.4	3480.9	3493.8	3500.3	3526.3	3530.6	3550.1	3567.3
32.5°	3245.0	3242.9	3247.2	3260.1	3266.6	3284.0	3292.6	3307.8	3318.5	3329.4	3346.7
35°	2998.4	2994.1	2998.4	3011.4	3011.4	3026.6	3033.1	3039.5	3037.3	3039.5	3035.2
37.5°	2769.1	2766.9	2769.1	2775.5	2769.1	2775.5	2769.1	2756.1	2732.4	2706.4	2680.4
40°	2574.4	2576.5	2563.6	2572.3	2548.4	2544.1	2520.3	2487.8	2440.3	2388.4	2314.8
42.5°	2366.7	2360.2	2351.6	2355.9	2336.5	2321.2	2282.3	2241.3	2180.6	2094.2	2005.4
45°	2111.4	2109.3	2104.9	2102.8	2089.8	2074.7	2042.2	1994.6	1927.6	1838.9	1732.8
47.5°	1862.7	1856.2	1856.2	1858.3	1843.2	1841.0	1815.0	1774.0	1715.6	1629.0	1518.7
50°	1624.6	1622.5	1626.9	1635.5	1624.6	1620.4	1603.1	1574.9	1523.0	1449.5	1345.6
52.5°	1410.5	1408.3	1412.7	1423.5	1419.1	1423.5	1406.2	1384.6	1349.9	1278.5	1187.7
55°	1200.7	1200.7	1200.7	1213.6	1213.6	1213.6	1205.0	1192.1	1159.6	1107.6	1023.3
57.5°	982.2	984.3	997.3	999.4	997.3	1001.7	999.4	986.4	964.9	928.1	863.2
60°	798.3	798.3	804.8	811.3	809.1	811.3	811.3	804.8	783.2	752.9	701.0
62.5°	631.7	638.2	633.8	638.2	646.8	638.2	633.8	629.6	614.4	594.9	551.6
65°	478.1	482.4	482.4	484.6	480.2	482.4	473.8	467.3	458.7	437.0	408.9
67.5°	363.5	363.5	363.5	363.5	361.3	359.1	357.0	350.5	335.3	326.7	296.3
70°	279.1	266.1	266.1	266.1	266.1	268.3	261.8	253.2	248.8	233.7	212.0
72.5°	186.0	190.4	186.0	186.0	181.7	183.9	175.2	170.9	166.6	158.0	145.0
75°	134.1	123.3	127.6	129.8	123.3	127.6	119.0	110.3	110.3	103.8	97.3
77.5°	86.6	84.4	86.6	88.7	86.6	84.4	80.1	75.7	75.7	73.6	67.1
80°	62.8	60.6	60.6	60.6	58.4	60.6	56.3	56.3	51.9	49.8	45.4
82.5°	41.1	41.1	38.9	41.1	38.9	41.1	34.6	34.6	34.6	32.4	28.1
85°	28.1	23.8	23.8	26.0	21.6	26.0	23.8	21.6	19.5	19.5	17.3
87.5°	13.0	15.1	13.0	15.1	13.0	13.0	15.1	13.0	13.0	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°	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5
2.5°	4408.9	4411.0	4411.0	4419.8	4424.0	4426.2	4426.2	4443.5	4437.0	4441.4	4445.7
5°	4346.2	4359.1	4363.5	4363.5	4387.3	4395.9	4404.5	4424.0	4426.2	4439.2	4454.3
7.5°	4285.6	4300.7	4309.4	4328.9	4344.0	4359.1	4385.1	4398.1	4411.0	4428.4	4447.8
10°	4227.2	4244.5	4261.8	4276.9	4300.7	4320.2	4337.5	4367.8	4383.0	4406.8	4432.7
12.5°	4171.0	4194.8	4209.9	4235.8	4261.8	4279.1	4305.1	4333.2	4357.0	4380.8	4411.0
15°	4121.2	4149.3	4166.6	4194.8	4222.9	4246.7	4274.8	4309.4	4326.7	4354.9	4383.0
17.5°	4067.1	4097.4	4119.1	4145.0	4179.6	4205.5	4229.4	4263.9	4285.6	4315.9	4348.4
20°	4010.9	4041.2	4067.1	4093.1	4127.7	4153.6	4181.8	4216.4	4240.2	4270.4	4296.4
22.5°	3943.8	3972.0	4000.0	4030.3	4064.9	4086.6	4119.1	4149.3	4175.3	4203.4	4229.4
25°	3857.3	3891.9	3913.5	3941.6	3969.7	3993.5	4028.2	4058.4	4080.1	4106.1	4129.8
27.5°	3755.6	3781.6	3798.9	3822.6	3850.8	3872.4	3898.3	3928.7	3950.3	3974.1	3991.4
30°	3582.5	3606.3	3621.5	3638.8	3666.9	3686.4	3708.0	3736.1	3751.2	3768.6	3783.7
32.5°	3355.3	3374.8	3383.5	3396.5	3416.0	3435.4	3452.7	3476.5	3483.0	3493.8	3493.8
35°	3026.6	3030.8	3028.7	3033.1	3041.7	3052.5	3067.6	3082.8	3091.4	3091.4	3085.0
37.5°	2641.4	2615.5	2587.4	2565.8	2559.3	2554.9	2563.6	2570.0	2578.8	2583.0	2572.3
40°	2241.3	2182.9	2120.1	2063.8	2024.9	2007.6	2001.1	2005.4	2005.4	2020.5	2020.5
42.5°	1897.3	1806.4	1713.4	1629.0	1572.7	1529.5	1510.0	1510.0	1512.2	1523.0	1529.5
45°	1611.7	1497.0	1388.8	1295.9	1218.0	1161.7	1135.8	1129.3	1127.1	1131.4	1146.5
47.5°	1393.2	1274.2	1161.7	1047.1	964.9	908.6	884.8	876.1	867.5	876.1	878.3
50°	1222.3	1099.0	980.0	865.3	778.8	729.0	698.7	685.7	683.6	683.6	688.0
52.5°	1066.5	951.9	832.9	716.1	625.2	577.6	549.5	543.0	534.4	543.0	543.0
55°	919.4	804.8	688.0	577.6	501.9	452.2	426.2	417.5	413.2	419.7	419.7
57.5°	759.4	662.0	553.9	454.3	378.6	344.0	324.5	313.7	311.5	315.8	311.5
60°	623.1	540.9	447.8	357.0	298.6	261.8	246.7	242.3	237.9	242.3	242.3
62.5°	493.2	424.0	348.3	279.1	229.3	203.4	186.0	186.0	183.9	183.9	186.0
65°	365.6	311.5	257.4	199.0	160.1	140.6	127.6	127.6	125.5	127.6	125.5
67.5°	266.1	229.3	186.0	145.0	114.7	103.8	95.2	88.7	93.1	88.7	86.6
70°	194.7	164.4	134.1	110.3	88.7	77.9	71.4	69.2	64.9	64.9	64.9
72.5°	129.8	110.3	90.8	71.4	58.4	47.6	45.4	41.1	36.8	38.9	43.3
75°	86.6	73.6	64.9	51.9	38.9	38.9	26.0	26.0	21.6	26.0	19.5
77.5°	60.6	49.8	38.9	32.4	26.0	23.8	17.3	17.3	15.1	15.1	15.1
80°	43.3	36.8	28.1	23.8	17.3	17.3	15.1	13.0	10.8	10.8	13.0
82.5°	26.0	19.5	19.5	17.3	10.8	8.6	6.5	8.6	4.4	4.4	4.4
85°	15.1	13.0	10.8	6.5	4.4	4.4	2.1	0.0	2.1	2.1	0.0
87.5°	8.6	4.4	4.4	2.1	0.0	2.1	2.1	0.0	0.0	0.0	4.4
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°	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5
2.5°	4456.5	4454.3	4458.7	4458.7	4471.7	4469.5	4476.0	4476.0	4471.7	4473.8	4482.5
5°	4471.7	4478.2	4491.1	4502.0	4521.4	4530.1	4540.9	4551.7	4553.9	4560.4	4566.9
7.5°	4471.7	4493.3	4508.5	4527.9	4553.9	4569.0	4592.8	4612.3	4620.9	4631.7	4644.7
10°	4463.0	4484.6	4512.7	4534.4	4566.9	4590.7	4614.4	4644.7	4657.7	4675.0	4692.3
12.5°	4445.7	4469.5	4499.7	4527.9	4564.6	4586.3	4616.6	4644.7	4664.2	4688.0	4707.5
15°	4419.8	4447.8	4476.0	4504.1	4543.0	4569.0	4597.2	4629.6	4649.1	4675.0	4692.3
17.5°	4378.6	4408.9	4434.9	4460.8	4497.6	4527.9	4553.9	4584.2	4603.7	4625.3	4649.1
20°	4328.9	4357.0	4385.1	4406.8	4443.5	4469.5	4497.6	4525.7	4540.9	4545.2	4582.0
22.5°	4266.2	4285.6	4307.2	4341.9	4363.5	4387.3	4413.3	4439.2	4454.3	4478.2	4491.1
25°	4162.3	4181.8	4205.5	4220.7	4246.7	4266.2	4292.1	4320.2	4328.9	4346.2	4359.1
27.5°	4017.4	4028.2	4039.0	4051.9	4067.1	4077.9	4093.1	4106.1	4114.7	4123.3	4132.0
30°	3788.0	3788.0	3788.0	3779.4	3785.9	3792.4	3794.5	3792.4	3792.4	3790.2	3790.2
32.5°	3485.2	3467.9	3448.4	3431.1	3424.6	3416.0	3411.6	3405.1	3394.3	3387.8	3390.0
35°	3076.3	3037.3	3013.6	2991.9	2974.7	2961.7	2955.2	2948.7	2946.5	2937.9	2929.2
37.5°	2565.8	2537.6	2520.3	2507.3	2492.2	2479.2	2481.3	2483.6	2490.0	2485.7	2487.8
40°	2024.9	2018.4	2024.9	2009.8	2005.4	2009.8	2020.5	2035.8	2044.4	2053.0	2068.2
42.5°	1540.3	1551.1	1566.3	1566.3	1572.7	1581.4	1594.4	1618.2	1631.1	1646.3	1663.6
45°	1159.6	1172.6	1192.1	1198.5	1202.8	1213.6	1228.8	1248.2	1256.9	1269.9	1285.0
47.5°	893.5	902.1	912.9	923.8	934.5	938.9	954.0	954.0	964.9	973.5	977.8
50°	696.6	705.2	713.9	720.4	724.7	731.2	735.5	742.0	744.2	748.5	750.7
52.5°	545.1	556.0	556.0	560.3	566.8	573.3	571.1	573.3	575.4	575.4	581.9
55°	426.2	426.2	432.7	432.7	437.0	434.8	437.0	437.0	437.0	437.0	439.2
57.5°	318.0	320.2	326.7	322.3	320.2	324.5	320.2	324.5	322.3	326.7	320.2
60°	244.4	244.4	246.7	246.7	248.8	248.8	248.8	246.7	246.7	244.4	244.4
62.5°	183.9	186.0	188.2	186.0	186.0	186.0	183.9	183.9	181.7	179.5	179.5
65°	123.3	121.2	125.5	121.2	123.3	123.3	121.2	123.3	116.8	119.0	116.8
67.5°	88.7	86.6	84.4	86.6	84.4	82.2	82.2	84.4	86.6	80.1	80.1
70°	58.4	60.6	58.4	60.6	62.8	62.8	60.6	58.4	60.6	56.3	58.4
72.5°	36.8	36.8	36.8	36.8	36.8	38.9	38.9	38.9	34.6	34.6	32.4
75°	17.3	23.8	19.5	17.3	23.8	23.8	21.6	21.6	19.5	19.5	19.5
77.5°	17.3	13.0	13.0	13.0	13.0	13.0	13.0	13.0	10.8	13.0	10.8
80°	8.6	8.6	8.6	6.5	8.6	8.6	10.8	8.6	8.6	6.5	10.8
82.5°	4.4	4.4	4.4	0.0	2.1	4.4	4.4	2.1	4.4	4.4	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: P248669

CATALOG NUMBER: LD8B70D010 ER8B70835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5
2.5°	4480.3	4478.2	4480.3	4482.5	4480.3	4478.2	4480.3	4482.5	4473.8	4471.7	4476.0
5°	4575.5	4575.5	4579.8	4582.0	4579.8	4575.5	4575.5	4566.9	4560.4	4553.9	4551.7
7.5°	4657.7	4662.1	4666.3	4668.5	4666.3	4662.1	4657.7	4644.7	4631.7	4620.9	4612.3
10°	4707.5	4714.0	4722.6	4726.9	4722.6	4714.0	4707.5	4692.3	4675.0	4657.7	4644.7
12.5°	4729.1	4735.6	4746.4	4744.3	4746.4	4735.6	4729.1	4707.5	4688.0	4664.2	4644.7
15°	4714.0	4722.6	4733.4	4737.8	4733.4	4722.6	4714.0	4692.3	4675.0	4649.1	4629.6
17.5°	4666.3	4679.3	4685.8	4692.3	4685.8	4679.3	4666.3	4649.1	4625.3	4603.7	4584.2
20°	4601.4	4610.2	4618.8	4620.9	4618.8	4610.2	4601.4	4582.0	4545.2	4540.9	4525.7
22.5°	4508.5	4515.0	4534.4	4527.9	4534.4	4515.0	4508.5	4491.1	4478.2	4454.3	4439.2
25°	4374.3	4380.8	4383.0	4385.1	4383.0	4380.8	4374.3	4359.1	4346.2	4328.9	4320.2
27.5°	4142.8	4142.8	4147.1	4149.3	4147.1	4142.8	4142.8	4132.0	4123.3	4114.7	4106.1
30°	3792.4	3792.4	3792.4	3803.2	3792.4	3792.4	3792.4	3790.2	3790.2	3792.4	3792.4
32.5°	3387.8	3383.5	3379.2	3383.5	3379.2	3383.5	3387.8	3390.0	3387.8	3394.3	3405.1
35°	2929.2	2927.0	2933.5	2924.9	2933.5	2927.0	2929.2	2929.2	2937.9	2946.5	2948.7
37.5°	2490.0	2485.7	2494.3	2485.7	2494.3	2485.7	2490.0	2487.8	2485.7	2490.0	2483.6
40°	2072.5	2076.8	2076.8	2094.2	2076.8	2076.8	2072.5	2068.2	2053.0	2044.4	2035.8
42.5°	1672.3	1685.3	1680.9	1693.9	1680.9	1685.3	1672.3	1663.6	1646.3	1631.1	1618.2
45°	1293.7	1302.4	1302.4	1306.7	1302.4	1302.4	1293.7	1285.0	1269.9	1256.9	1248.2
47.5°	992.9	992.9	992.9	995.2	992.9	992.9	992.9	977.8	973.5	964.9	954.0
50°	755.0	757.2	759.4	761.5	759.4	757.2	755.0	750.7	748.5	744.2	742.0
52.5°	579.8	581.9	577.6	581.9	577.6	581.9	579.8	581.9	575.4	575.4	573.3
55°	439.2	437.0	439.2	441.3	439.2	437.0	439.2	439.2	437.0	437.0	437.0
57.5°	322.3	318.0	318.0	318.0	318.0	318.0	322.3	320.2	326.7	322.3	324.5
60°	240.2	242.3	242.3	244.4	242.3	242.3	240.2	244.4	244.4	246.7	246.7
62.5°	177.4	183.9	179.5	183.9	179.5	183.9	177.4	179.5	179.5	181.7	183.9
65°	114.7	114.7	114.7	116.8	114.7	114.7	114.7	116.8	119.0	116.8	123.3
67.5°	77.9	80.1	84.4	82.2	84.4	80.1	77.9	80.1	80.1	86.6	84.4
70°	62.8	56.3	56.3	62.8	56.3	56.3	62.8	58.4	56.3	60.6	58.4
72.5°	36.8	32.4	36.8	36.8	36.8	32.4	36.8	32.4	34.6	34.6	38.9
75°	19.5	17.3	15.1	21.6	15.1	17.3	19.5	19.5	19.5	19.5	21.6
77.5°	13.0	10.8	15.1	15.1	15.1	10.8	13.0	10.8	13.0	10.8	13.0
80°	6.5	8.6	6.5	10.8	6.5	8.6	6.5	10.8	6.5	8.6	8.6
82.5°	2.1	4.4	4.4	4.4	4.4	4.4	2.1	2.1	4.4	4.4	2.1
85°	0.0	4.4	2.1	2.1	2.1	4.4	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: P248669

CATALOG NUMBER: LD8B70D010 ER8B70835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5
2.5°	4476.0	4469.5	4471.7	4458.7	4458.7	4454.3	4456.5	4445.7	4441.4	4437.0	4443.5
5°	4540.9	4530.1	4521.4	4502.0	4491.1	4478.2	4471.7	4454.3	4439.2	4426.2	4424.0
7.5°	4592.8	4569.0	4553.9	4527.9	4508.5	4493.3	4471.7	4447.8	4428.4	4411.0	4398.1
10°	4614.4	4590.7	4566.9	4534.4	4512.7	4484.6	4463.0	4432.7	4406.8	4383.0	4367.8
12.5°	4616.6	4586.3	4564.6	4527.9	4499.7	4469.5	4445.7	4411.0	4380.8	4357.0	4333.2
15°	4597.2	4569.0	4543.0	4504.1	4476.0	4447.8	4419.8	4383.0	4354.9	4326.7	4309.4
17.5°	4553.9	4527.9	4497.6	4460.8	4434.9	4408.9	4378.6	4348.4	4315.9	4285.6	4263.9
20°	4497.6	4469.5	4443.5	4406.8	4385.1	4357.0	4328.9	4296.4	4270.4	4240.2	4216.4
22.5°	4413.3	4387.3	4363.5	4341.9	4307.2	4285.6	4266.2	4229.4	4203.4	4175.3	4149.3
25°	4292.1	4266.2	4246.7	4220.7	4205.5	4181.8	4162.3	4129.8	4106.1	4080.1	4058.4
27.5°	4093.1	4077.9	4067.1	4051.9	4039.0	4028.2	4017.4	3991.4	3974.1	3950.3	3928.7
30°	3794.5	3792.4	3785.9	3779.4	3788.0	3788.0	3788.0	3783.7	3768.6	3751.2	3736.1
32.5°	3411.6	3416.0	3424.6	3431.1	3448.4	3467.9	3485.2	3493.8	3493.8	3483.0	3476.5
35°	2955.2	2961.7	2974.7	2991.9	3013.6	3037.3	3076.3	3085.0	3091.4	3091.4	3082.8
37.5°	2481.3	2479.2	2492.2	2507.3	2520.3	2537.6	2565.8	2572.3	2583.0	2578.8	2570.0
40°	2020.5	2009.8	2005.4	2009.8	2024.9	2018.4	2024.9	2020.5	2020.5	2005.4	2005.4
42.5°	1594.4	1581.4	1572.7	1566.3	1566.3	1551.1	1540.3	1529.5	1523.0	1512.2	1510.0
45°	1228.8	1213.6	1202.8	1198.5	1192.1	1172.6	1159.6	1146.5	1131.4	1127.1	1129.3
47.5°	954.0	938.9	934.5	923.8	912.9	902.1	893.5	878.3	876.1	867.5	876.1
50°	735.5	731.2	724.7	720.4	713.9	705.2	696.6	688.0	683.6	683.6	685.7
52.5°	571.1	573.3	566.8	560.3	556.0	556.0	545.1	543.0	543.0	534.4	543.0
55°	437.0	434.8	437.0	432.7	432.7	426.2	426.2	419.7	419.7	413.2	417.5
57.5°	320.2	324.5	320.2	322.3	326.7	320.2	318.0	311.5	315.8	311.5	313.7
60°	248.8	248.8	248.8	246.7	246.7	244.4	244.4	242.3	242.3	237.9	242.3
62.5°	183.9	186.0	186.0	186.0	188.2	186.0	183.9	186.0	183.9	183.9	186.0
65°	121.2	123.3	123.3	121.2	125.5	121.2	123.3	125.5	127.6	125.5	127.6
67.5°	82.2	82.2	84.4	86.6	84.4	86.6	88.7	86.6	88.7	93.1	88.7
70°	60.6	62.8	62.8	60.6	58.4	60.6	58.4	64.9	64.9	64.9	69.2
72.5°	38.9	38.9	36.8	36.8	36.8	36.8	36.8	43.3	38.9	36.8	41.1
75°	21.6	23.8	23.8	17.3	19.5	23.8	17.3	19.5	26.0	21.6	26.0
77.5°	13.0	13.0	13.0	13.0	13.0	13.0	17.3	15.1	15.1	15.1	17.3
80°	10.8	8.6	8.6	6.5	8.6	8.6	8.6	13.0	10.8	10.8	13.0
82.5°	4.4	4.4	2.1	0.0	4.4	4.4	4.4	4.4	4.4	4.4	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	4.4	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: P248669

CATALOG NUMBER: LD8B70D010 ER8B70835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5
2.5°	4426.2	4426.2	4424.0	4419.8	4411.0	4411.0	4408.9	4402.4	4398.1	4395.9	4395.9
5°	4404.5	4395.9	4387.3	4363.5	4363.5	4359.1	4346.2	4337.5	4333.2	4322.4	4318.1
7.5°	4385.1	4359.1	4344.0	4328.9	4309.4	4300.7	4285.6	4279.1	4263.9	4253.2	4246.7
10°	4337.5	4320.2	4300.7	4276.9	4261.8	4244.5	4227.2	4214.3	4194.8	4183.9	4175.3
12.5°	4305.1	4279.1	4261.8	4235.8	4209.9	4194.8	4171.0	4155.8	4136.3	4114.7	4101.7
15°	4274.8	4246.7	4222.9	4194.8	4166.6	4149.3	4121.2	4103.9	4075.8	4054.2	4039.0
17.5°	4229.4	4205.5	4179.6	4145.0	4119.1	4097.4	4067.1	4045.5	4019.5	3991.4	3976.2
20°	4181.8	4153.6	4127.7	4093.1	4067.1	4041.2	4010.9	3987.1	3956.7	3930.8	3913.5
22.5°	4119.1	4086.6	4064.9	4030.3	4000.0	3972.0	3943.8	3915.7	3887.5	3865.9	3846.4
25°	4028.2	3993.5	3969.7	3941.6	3913.5	3891.9	3857.3	3840.0	3811.9	3792.4	3772.9
27.5°	3898.3	3872.4	3850.8	3822.6	3798.9	3781.6	3755.6	3738.3	3714.4	3697.2	3682.0
30°	3708.0	3686.4	3666.9	3638.8	3621.5	3606.3	3582.5	3567.3	3550.1	3530.6	3526.3
32.5°	3452.7	3435.4	3416.0	3396.5	3383.5	3374.8	3355.3	3346.7	3329.4	3318.5	3307.8
35°	3067.6	3052.5	3041.7	3033.1	3028.7	3030.8	3026.6	3035.2	3039.5	3037.3	3039.5
37.5°	2563.6	2554.9	2559.3	2565.8	2587.4	2615.5	2641.4	2680.4	2706.4	2732.4	2756.1
40°	2001.1	2007.6	2024.9	2063.8	2120.1	2182.9	2241.3	2314.8	2388.4	2440.3	2487.8
42.5°	1510.0	1529.5	1572.7	1629.0	1713.4	1806.4	1897.3	2005.4	2094.2	2180.6	2241.3
45°	1135.8	1161.7	1218.0	1295.9	1388.8	1497.0	1611.7	1732.8	1838.9	1927.6	1994.6
47.5°	884.8	908.6	964.9	1047.1	1161.7	1274.2	1393.2	1518.7	1629.0	1715.6	1774.0
50°	698.7	729.0	778.8	865.3	980.0	1099.0	1222.3	1345.6	1449.5	1523.0	1574.9
52.5°	549.5	577.6	625.2	716.1	832.9	951.9	1066.5	1187.7	1278.5	1349.9	1384.6
55°	426.2	452.2	501.9	577.6	688.0	804.8	919.4	1023.3	1107.6	1159.6	1192.1
57.5°	324.5	344.0	378.6	454.3	553.9	662.0	759.4	863.2	928.1	964.9	986.4
60°	246.7	261.8	298.6	357.0	447.8	540.9	623.1	701.0	752.9	783.2	804.8
62.5°	186.0	203.4	229.3	279.1	348.3	424.0	493.2	551.6	594.9	614.4	629.6
65°	127.6	140.6	160.1	199.0	257.4	311.5	365.6	408.9	437.0	458.7	467.3
67.5°	95.2	103.8	114.7	145.0	186.0	229.3	266.1	296.3	326.7	335.3	350.5
70°	71.4	77.9	88.7	110.3	134.1	164.4	194.7	212.0	233.7	248.8	253.2
72.5°	45.4	47.6	58.4	71.4	90.8	110.3	129.8	145.0	158.0	166.6	170.9
75°	26.0	38.9	38.9	51.9	64.9	73.6	86.6	97.3	103.8	110.3	110.3
77.5°	17.3	23.8	26.0	32.4	38.9	49.8	60.6	67.1	73.6	75.7	75.7
80°	15.1	17.3	17.3	23.8	28.1	36.8	43.3	45.4	49.8	51.9	56.3
82.5°	6.5	8.6	10.8	17.3	19.5	19.5	26.0	28.1	32.4	34.6	34.6
85°	2.1	4.4	4.4	6.5	10.8	13.0	15.1	17.3	19.5	19.5	21.6
87.5°	2.1	2.1	0.0	2.1	4.4	4.4	8.6	8.6	8.6	13.0	13.0
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: P248669

CATALOG NUMBER: LD8B70D010 ER8B70835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5	4430.5
2.5°	4391.6	4393.8	4385.1	4383.0	4378.6	4380.8	4385.1
5°	4311.6	4313.7	4305.1	4296.4	4296.4	4294.2	4296.4
7.5°	4235.8	4238.0	4225.0	4220.7	4212.0	4214.3	4214.3
10°	4160.1	4160.1	4140.7	4138.5	4132.0	4129.8	4129.8
12.5°	4086.6	4080.1	4064.9	4056.3	4060.7	4047.7	4047.7
15°	4021.6	4010.9	3991.4	3984.9	3974.1	3969.7	3969.7
17.5°	3954.6	3946.0	3928.7	3915.7	3902.7	3900.5	3902.7
20°	3889.7	3881.0	3859.4	3850.8	3840.0	3840.0	3835.6
22.5°	3824.8	3816.1	3796.7	3790.2	3775.1	3775.1	3777.2
25°	3757.7	3751.2	3729.6	3725.3	3723.2	3714.4	3718.8
27.5°	3666.9	3662.5	3645.3	3638.8	3630.1	3628.0	3632.3
30°	3500.3	3493.8	3480.9	3474.4	3459.2	3461.4	3465.6
32.5°	3292.6	3284.0	3266.6	3260.1	3247.2	3242.9	3245.0
35°	3033.1	3026.6	3011.4	3011.4	2998.4	2994.1	2998.4
37.5°	2769.1	2775.5	2769.1	2775.5	2769.1	2766.9	2769.1
40°	2520.3	2544.1	2548.4	2572.3	2563.6	2576.5	2574.4
42.5°	2282.3	2321.2	2336.5	2355.9	2351.6	2360.2	2366.7
45°	2042.2	2074.7	2089.8	2102.8	2104.9	2109.3	2111.4
47.5°	1815.0	1841.0	1843.2	1858.3	1856.2	1856.2	1862.7
50°	1603.1	1620.4	1624.6	1635.5	1626.9	1622.5	1624.6
52.5°	1406.2	1423.5	1419.1	1423.5	1412.7	1408.3	1410.5
55°	1205.0	1213.6	1213.6	1213.6	1200.7	1200.7	1200.7
57.5°	999.4	1001.7	997.3	999.4	997.3	984.3	982.2
60°	811.3	811.3	809.1	811.3	804.8	798.3	798.3
62.5°	633.8	638.2	646.8	638.2	633.8	638.2	631.7
65°	473.8	482.4	480.2	484.6	482.4	482.4	478.1
67.5°	357.0	359.1	361.3	363.5	363.5	363.5	363.5
70°	261.8	268.3	266.1	266.1	266.1	266.1	279.1
72.5°	175.2	183.9	181.7	186.0	186.0	190.4	186.0
75°	119.0	127.6	123.3	129.8	127.6	123.3	134.1
77.5°	80.1	84.4	86.6	88.7	86.6	84.4	86.6
80°	56.3	60.6	58.4	60.6	60.6	60.6	62.8
82.5°	34.6	41.1	38.9	41.1	38.9	41.1	41.1
85°	23.8	26.0	21.6	26.0	23.8	23.8	28.1
87.5°	15.1	13.0	13.0	15.1	13.0	15.1	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)