

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: P248950

Luminaire Tested: **LD8B90D010 ER8B90950 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248950  
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: LD8B90D010 ER8B90950 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6643.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 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

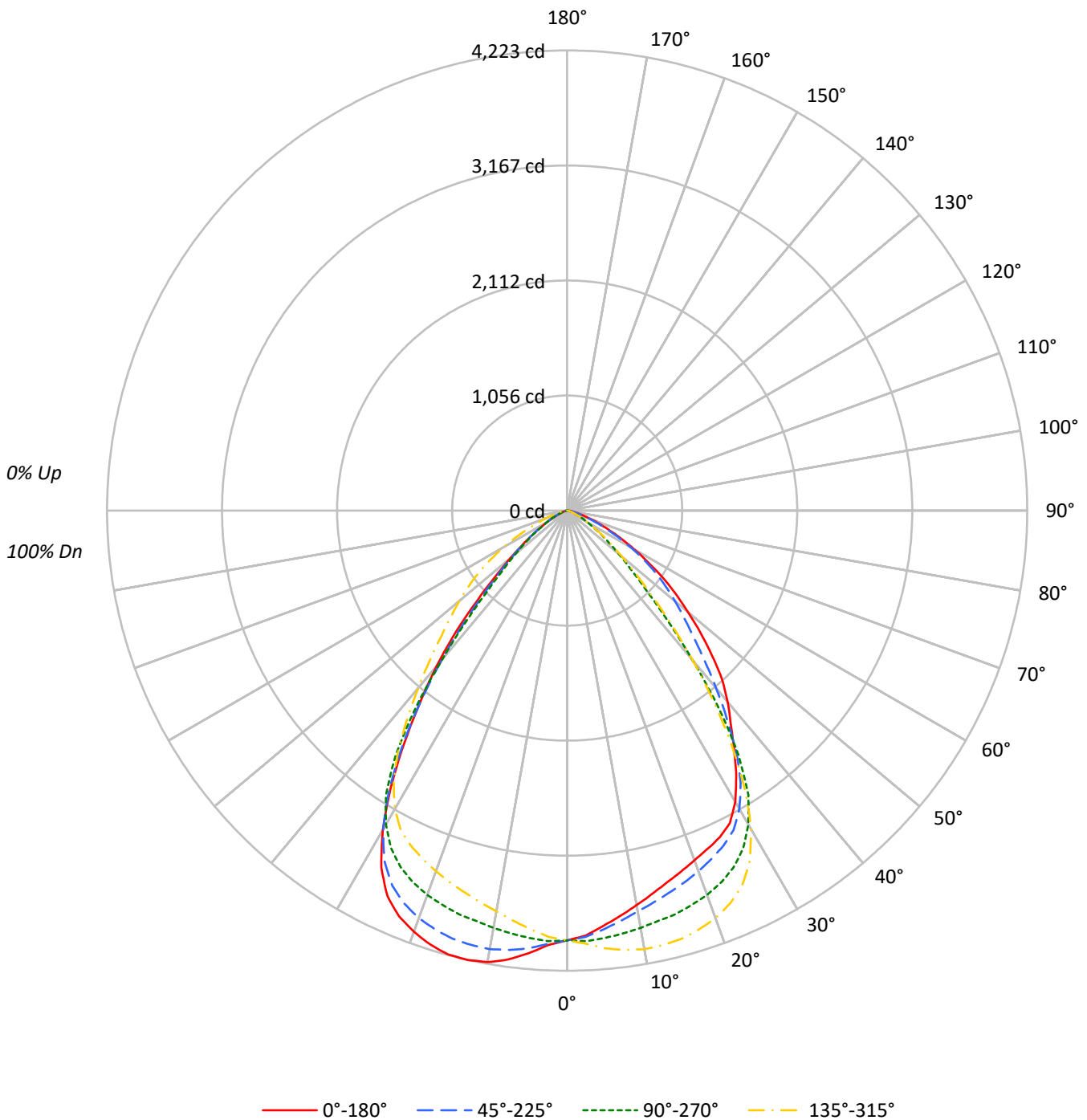
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	121609	121609	121609	121609
5°	118381	121897	126249	121897
10°	115106	121738	131745	121738
15°	112807	122458	134630	122458
20°	112038	123159	134976	123159
25°	112627	122912	132806	122912
30°	109843	118414	120539	118414
35°	100472	103296	98007	103296
40°	92242	71853	75037	71853
45°	81963	43836	50722	43836
50°	69373	29283	32516	29283
55°	57460	19983	21118	19983
60°	43825	13303	13420	13303
65°	31054	8289	7588	8289
70°	22396	5554	5040	5554
75°	14226	2752	2299	2752
80°	9927	2060	1705	2060
85°	8845	0	672	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.4	5.7
10°-20°	1087.0	16.4
20°-30°	1646.0	24.8
30°-40°	1649.6	24.8
40°-50°	1035.9	15.6
50°-60°	552.0	8.3
60°-70°	227.0	3.4
70°-80°	60.0	0.9
80°-90°	10.1	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°	3108.3	46.8
0°-40°	4758.0	71.6
0°-60°	6345.9	95.5
0°-90°	6643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6643.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3944	3944	3944	3944	3944	
5°	3824	3938	4079	3938	3824	361
15°	3534	3836	4217	3836	3534	999
25°	3310	3612	3903	3612	3310	1518
35°	2669	2744	2604	2744	2669	1672
45°	1880	1005	1163	1005	1880	1445
55°	1069	372	393	372	1069	953
65°	426	114	104	114	426	441
75°	119	23	19	23	119	135
85°	25	0	2	0	25	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7
2.5°	3903.3	3899.4	3897.5	3901.4	3903.3	3911.0	3909.1	3912.9	3912.9	3914.9	3918.7
5°	3824.4	3822.4	3824.4	3824.4	3832.1	3839.7	3837.8	3843.6	3847.4	3857.1	3860.9
7.5°	3751.2	3751.2	3749.2	3756.9	3760.8	3772.4	3770.4	3780.1	3785.8	3795.4	3808.9
10°	3676.1	3676.1	3678.0	3683.8	3685.7	3703.0	3703.0	3716.5	3724.2	3733.9	3751.2
12.5°	3602.9	3602.9	3614.5	3610.6	3618.3	3631.8	3637.6	3651.0	3662.6	3681.9	3699.2
15°	3533.6	3533.6	3537.4	3547.0	3552.8	3570.2	3579.8	3595.2	3608.7	3628.0	3653.0
17.5°	3473.9	3472.0	3473.9	3485.4	3497.0	3512.4	3520.1	3539.3	3552.8	3577.9	3601.0
20°	3414.2	3418.1	3418.1	3427.7	3435.4	3454.6	3462.3	3483.5	3498.9	3522.0	3549.0
22.5°	3362.2	3360.3	3360.3	3373.8	3379.6	3396.8	3404.5	3423.8	3441.1	3460.4	3485.4
25°	3310.2	3306.3	3314.1	3316.0	3319.8	3339.1	3344.8	3358.3	3375.7	3393.0	3418.1
27.5°	3233.2	3229.4	3231.3	3238.9	3244.7	3260.1	3264.0	3277.5	3290.9	3306.3	3327.6
30°	3084.9	3081.1	3079.2	3092.6	3098.4	3109.9	3115.7	3138.8	3142.6	3160.0	3175.4
32.5°	2888.5	2886.5	2890.4	2901.9	2907.7	2923.2	2930.9	2944.3	2953.9	2963.6	2979.0
35°	2669.0	2665.1	2669.0	2680.5	2680.5	2694.0	2699.8	2705.5	2703.6	2705.5	2701.7
37.5°	2464.9	2462.9	2464.9	2470.6	2464.9	2470.6	2464.9	2453.3	2432.1	2409.0	2385.9
40°	2291.5	2293.4	2281.9	2289.6	2268.4	2264.6	2243.4	2214.5	2172.2	2126.0	2060.5
42.5°	2106.7	2100.9	2093.2	2097.0	2079.7	2066.2	2031.6	1995.0	1941.0	1864.1	1785.0
45°	1879.5	1877.5	1873.7	1871.8	1860.2	1846.7	1817.8	1775.5	1715.8	1636.8	1542.4
47.5°	1658.0	1652.2	1652.2	1654.1	1640.6	1638.7	1615.6	1579.0	1527.1	1450.0	1351.8
50°	1446.1	1444.2	1448.1	1455.8	1446.1	1442.3	1426.9	1401.9	1355.7	1290.2	1197.7
52.5°	1255.5	1253.6	1257.5	1267.1	1263.2	1267.1	1251.7	1232.4	1201.6	1138.0	1057.2
55°	1068.8	1068.8	1068.8	1080.3	1080.3	1080.3	1072.6	1061.1	1032.1	985.9	910.9
57.5°	874.3	876.2	887.7	889.6	887.7	891.6	889.6	878.1	858.9	826.1	768.4
60°	710.6	710.6	716.4	722.2	720.2	722.2	722.2	716.4	697.1	670.2	623.9
62.5°	562.3	568.1	564.2	568.1	575.8	568.1	564.2	560.4	546.9	529.5	491.0
65°	425.6	429.4	429.4	431.3	427.5	429.4	421.8	416.0	408.3	389.0	364.0
67.5°	323.5	323.5	323.5	323.5	321.6	319.7	317.8	312.0	298.5	290.8	263.8
70°	248.4	236.8	236.8	236.8	236.8	238.8	233.0	225.3	221.5	208.0	188.7
72.5°	165.6	169.5	165.6	165.6	161.8	163.7	156.0	152.1	148.3	140.6	129.0
75°	119.4	109.8	113.6	115.6	109.8	113.6	105.9	98.2	98.2	92.4	86.6
77.5°	77.0	75.1	77.0	78.9	77.0	75.1	71.3	67.4	67.4	65.5	59.7
80°	55.9	53.9	53.9	53.9	52.0	53.9	50.1	50.1	46.2	44.3	40.4
82.5°	36.6	36.6	34.6	36.6	34.6	36.6	30.8	30.8	30.8	28.9	25.0
85°	25.0	21.2	21.2	23.1	19.3	23.1	21.2	19.3	17.4	17.4	15.4
87.5°	11.6	13.5	11.6	13.5	11.6	11.6	13.5	11.6	11.6	7.7	7.7
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°	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7
2.5°	3924.5	3926.4	3926.4	3934.1	3938.0	3939.9	3939.9	3955.3	3949.5	3953.4	3957.2
5°	3868.7	3880.2	3884.1	3884.1	3905.2	3912.9	3920.6	3938.0	3939.9	3951.4	3964.9
7.5°	3814.7	3828.2	3835.9	3853.2	3866.7	3880.2	3903.3	3914.9	3926.4	3941.8	3959.1
10°	3762.7	3778.2	3793.5	3807.0	3828.2	3845.5	3860.9	3887.9	3901.4	3922.6	3945.6
12.5°	3712.7	3733.9	3747.3	3770.4	3793.5	3808.9	3832.1	3857.1	3878.3	3899.4	3926.4
15°	3668.4	3693.4	3708.8	3733.9	3758.9	3780.1	3805.1	3835.9	3851.3	3876.4	3901.4
17.5°	3620.2	3647.2	3666.5	3689.5	3720.4	3743.4	3764.7	3795.4	3814.7	3841.6	3870.6
20°	3570.2	3597.1	3620.2	3643.3	3674.2	3697.2	3722.3	3753.1	3774.3	3801.2	3824.4
22.5°	3510.5	3535.5	3560.5	3587.5	3618.3	3637.6	3666.5	3693.4	3716.5	3741.5	3764.7
25°	3433.5	3464.3	3483.5	3508.5	3533.6	3554.7	3585.6	3612.5	3631.8	3654.9	3676.1
27.5°	3342.9	3366.1	3381.5	3402.6	3427.7	3446.9	3470.0	3497.0	3516.3	3537.4	3552.8
30°	3188.9	3210.1	3223.6	3238.9	3264.0	3281.3	3300.6	3325.6	3339.1	3354.5	3368.0
32.5°	2986.7	3004.0	3011.7	3023.3	3040.6	3057.9	3073.4	3094.5	3100.3	3109.9	3109.9
35°	2694.0	2697.8	2695.9	2699.8	2707.5	2717.1	2730.6	2744.0	2751.7	2751.7	2746.0
37.5°	2351.2	2328.2	2303.1	2283.8	2278.1	2274.2	2281.9	2287.6	2295.4	2299.2	2289.6
40°	1995.0	1943.0	1887.1	1837.0	1802.4	1787.0	1781.2	1785.0	1785.0	1798.5	1798.5
42.5°	1688.8	1607.9	1525.2	1450.0	1399.9	1361.5	1344.1	1344.1	1346.0	1355.7	1361.5
45°	1434.6	1332.5	1236.2	1153.5	1084.1	1034.0	1011.0	1005.2	1003.3	1007.1	1020.6
47.5°	1240.1	1134.2	1034.0	932.0	858.9	808.8	787.6	779.9	772.2	779.9	781.8
50°	1088.0	978.2	872.4	770.3	693.2	648.9	622.0	610.4	608.5	608.5	612.4
52.5°	949.3	847.3	741.4	637.4	556.5	514.2	489.1	483.3	475.6	483.3	483.3
55°	818.4	716.4	612.4	514.2	446.7	402.5	379.3	371.7	367.8	373.6	373.6
57.5°	675.9	589.2	493.0	404.4	337.0	306.2	288.8	279.2	277.3	281.1	277.3
60°	554.6	481.4	398.6	317.8	265.8	233.0	219.6	215.7	211.8	215.7	215.7
62.5°	439.0	377.4	310.0	248.4	204.1	181.0	165.6	165.6	163.7	163.7	165.6
65°	325.4	277.3	229.1	177.1	142.5	125.2	113.6	113.6	111.7	113.6	111.7
67.5°	236.8	204.1	165.6	129.0	102.1	92.4	84.7	78.9	82.8	78.9	77.0
70°	173.3	146.3	119.4	98.2	78.9	69.4	63.6	61.6	57.8	57.8	57.8
72.5°	115.6	98.2	80.8	63.6	52.0	42.3	40.4	36.6	32.7	34.6	38.5
75°	77.0	65.5	57.8	46.2	34.6	34.6	23.1	23.1	19.3	23.1	17.4
77.5°	53.9	44.3	34.6	28.9	23.1	21.2	15.4	15.4	13.5	13.5	13.5
80°	38.5	32.7	25.0	21.2	15.4	15.4	13.5	11.6	9.6	9.6	11.6
82.5°	23.1	17.4	17.4	15.4	9.6	7.7	5.8	7.7	3.9	3.9	3.9
85°	13.5	11.6	9.6	5.8	3.9	3.9	1.9	0.0	1.9	1.9	0.0
87.5°	7.7	3.9	3.9	1.9	0.0	1.9	1.9	0.0	0.0	0.0	3.9
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°	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7
2.5°	3966.9	3964.9	3968.8	3968.8	3980.4	3978.4	3984.2	3984.2	3980.4	3982.3	3989.9
5°	3980.4	3986.1	3997.6	4007.3	4024.6	4032.4	4041.9	4051.6	4053.5	4059.3	4065.1
7.5°	3980.4	3999.6	4013.1	4030.4	4053.5	4067.0	4088.2	4105.5	4113.2	4122.8	4134.4
10°	3972.6	3991.9	4016.9	4036.2	4065.1	4086.3	4107.4	4134.4	4145.9	4161.3	4176.8
12.5°	3957.2	3978.4	4005.3	4030.4	4063.1	4082.4	4109.3	4134.4	4151.7	4172.9	4190.2
15°	3934.1	3959.1	3984.2	4009.2	4043.8	4067.0	4092.0	4120.9	4138.2	4161.3	4176.8
17.5°	3897.5	3924.5	3947.6	3970.7	4003.4	4030.4	4053.5	4080.5	4097.8	4117.1	4138.2
20°	3853.2	3878.3	3903.3	3922.6	3955.3	3978.4	4003.4	4028.5	4041.9	4045.8	4078.6
22.5°	3797.4	3814.7	3834.0	3864.8	3884.1	3905.2	3928.4	3951.4	3964.9	3986.1	3997.6
25°	3704.9	3722.3	3743.4	3756.9	3780.1	3797.4	3820.5	3845.5	3853.2	3868.7	3880.2
27.5°	3576.0	3585.6	3595.2	3606.7	3620.2	3629.9	3643.3	3654.9	3662.6	3670.3	3678.0
30°	3371.8	3371.8	3371.8	3364.1	3369.9	3375.7	3377.6	3375.7	3375.7	3373.8	3373.8
32.5°	3102.2	3086.8	3069.5	3054.1	3048.3	3040.6	3036.7	3031.0	3021.4	3015.6	3017.5
35°	2738.2	2703.6	2682.4	2663.2	2647.8	2636.2	2630.5	2624.7	2622.8	2615.1	2607.3
37.5°	2283.8	2258.8	2243.4	2231.8	2218.4	2206.8	2208.7	2210.7	2216.4	2212.6	2214.5
40°	1802.4	1796.6	1802.4	1788.9	1785.0	1788.9	1798.5	1812.1	1819.8	1827.5	1840.9
42.5°	1371.1	1380.7	1394.2	1394.2	1399.9	1407.7	1419.2	1440.4	1451.9	1465.4	1480.8
45°	1032.1	1043.7	1061.1	1066.8	1070.7	1080.3	1093.8	1111.1	1118.8	1130.3	1143.8
47.5°	795.3	803.0	812.6	822.3	831.9	835.7	849.2	849.2	858.9	866.6	870.4
50°	620.1	627.8	635.4	641.2	645.1	650.9	654.7	660.5	662.4	666.3	668.2
52.5°	485.2	494.9	494.9	498.7	504.5	510.3	508.4	510.3	512.2	512.2	518.0
55°	379.3	379.3	385.1	385.1	389.0	387.0	389.0	389.0	389.0	389.0	390.9
57.5°	283.0	285.0	290.8	286.9	285.0	288.8	285.0	288.8	286.9	290.8	285.0
60°	217.6	217.6	219.6	219.6	221.5	221.5	221.5	219.6	219.6	217.6	217.6
62.5°	163.7	165.6	167.6	165.6	165.6	165.6	163.7	163.7	161.8	159.8	159.8
65°	109.8	107.9	111.7	107.9	109.8	109.8	107.9	109.8	104.0	105.9	104.0
67.5°	78.9	77.0	75.1	77.0	75.1	73.2	73.2	75.1	77.0	71.3	71.3
70°	52.0	53.9	52.0	53.9	55.9	55.9	53.9	52.0	53.9	50.1	52.0
72.5°	32.7	32.7	32.7	32.7	32.7	34.6	34.6	34.6	30.8	30.8	28.9
75°	15.4	21.2	17.4	15.4	21.2	21.2	19.3	19.3	17.4	17.4	17.4
77.5°	15.4	11.6	11.6	11.6	11.6	11.6	11.6	11.6	9.6	11.6	9.6
80°	7.7	7.7	7.7	5.8	7.7	7.7	9.6	7.7	7.7	5.8	9.6
82.5°	3.9	3.9	3.9	0.0	1.9	3.9	3.9	1.9	3.9	3.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P248950

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7
2.5°	3988.0	3986.1	3988.0	3989.9	3988.0	3986.1	3988.0	3989.9	3982.3	3980.4	3984.2
5°	4072.8	4072.8	4076.6	4078.6	4076.6	4072.8	4072.8	4065.1	4059.3	4053.5	4051.6
7.5°	4145.9	4149.8	4153.6	4155.5	4153.6	4149.8	4145.9	4134.4	4122.8	4113.2	4105.5
10°	4190.2	4196.0	4203.7	4207.5	4203.7	4196.0	4190.2	4176.8	4161.3	4145.9	4134.4
12.5°	4209.5	4215.3	4224.9	4223.0	4224.9	4215.3	4209.5	4190.2	4172.9	4151.7	4134.4
15°	4196.0	4203.7	4213.3	4217.2	4213.3	4203.7	4196.0	4176.8	4161.3	4138.2	4120.9
17.5°	4153.6	4165.2	4171.0	4176.8	4171.0	4165.2	4153.6	4138.2	4117.1	4097.8	4080.5
20°	4095.8	4103.6	4111.3	4113.2	4111.3	4103.6	4095.8	4078.6	4045.8	4041.9	4028.5
22.5°	4013.1	4018.9	4036.2	4030.4	4036.2	4018.9	4013.1	3997.6	3986.1	3964.9	3951.4
25°	3893.6	3899.4	3901.4	3903.3	3901.4	3899.4	3893.6	3880.2	3868.7	3853.2	3845.5
27.5°	3687.6	3687.6	3691.4	3693.4	3691.4	3687.6	3687.6	3678.0	3670.3	3662.6	3654.9
30°	3375.7	3375.7	3375.7	3385.3	3375.7	3375.7	3375.7	3373.8	3373.8	3375.7	3375.7
32.5°	3015.6	3011.7	3007.9	3011.7	3007.9	3011.7	3015.6	3017.5	3015.6	3021.4	3031.0
35°	2607.3	2605.4	2611.2	2603.5	2611.2	2605.4	2607.3	2607.3	2615.1	2622.8	2624.7
37.5°	2216.4	2212.6	2220.3	2212.6	2220.3	2212.6	2216.4	2214.5	2212.6	2216.4	2210.7
40°	1844.8	1848.6	1848.6	1864.1	1848.6	1848.6	1844.8	1840.9	1827.5	1819.8	1812.1
42.5°	1488.5	1500.1	1496.2	1507.8	1496.2	1500.1	1488.5	1480.8	1465.4	1451.9	1440.4
45°	1151.5	1159.3	1159.3	1163.1	1159.3	1159.3	1151.5	1143.8	1130.3	1118.8	1111.1
47.5°	883.8	883.8	883.8	885.8	883.8	883.8	883.8	870.4	866.6	858.9	849.2
50°	672.1	674.0	675.9	677.8	675.9	674.0	672.1	668.2	666.3	662.4	660.5
52.5°	516.1	518.0	514.2	518.0	514.2	518.0	516.1	518.0	512.2	512.2	510.3
55°	390.9	389.0	390.9	392.8	390.9	389.0	390.9	390.9	389.0	389.0	389.0
57.5°	286.9	283.0	283.0	283.0	283.0	283.0	286.9	285.0	290.8	286.9	288.8
60°	213.8	215.7	215.7	217.6	215.7	215.7	213.8	217.6	217.6	219.6	219.6
62.5°	157.9	163.7	159.8	163.7	159.8	163.7	157.9	159.8	159.8	161.8	163.7
65°	102.1	102.1	102.1	104.0	102.1	102.1	102.1	104.0	105.9	104.0	109.8
67.5°	69.4	71.3	75.1	73.2	75.1	71.3	69.4	71.3	71.3	77.0	75.1
70°	55.9	50.1	50.1	55.9	50.1	50.1	55.9	52.0	50.1	53.9	52.0
72.5°	32.7	28.9	32.7	32.7	32.7	28.9	32.7	28.9	30.8	30.8	34.6
75°	17.4	15.4	13.5	19.3	13.5	15.4	17.4	17.4	17.4	17.4	19.3
77.5°	11.6	9.6	13.5	13.5	13.5	9.6	11.6	9.6	11.6	9.6	11.6
80°	5.8	7.7	5.8	9.6	5.8	7.7	5.8	9.6	5.8	7.7	7.7
82.5°	1.9	3.9	3.9	3.9	3.9	3.9	1.9	1.9	3.9	3.9	1.9
85°	0.0	3.9	1.9	1.9	1.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.0	0.0	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248950

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7
2.5°	3984.2	3978.4	3980.4	3968.8	3968.8	3964.9	3966.9	3957.2	3953.4	3949.5	3955.3
5°	4041.9	4032.4	4024.6	4007.3	3997.6	3986.1	3980.4	3964.9	3951.4	3939.9	3938.0
7.5°	4088.2	4067.0	4053.5	4030.4	4013.1	3999.6	3980.4	3959.1	3941.8	3926.4	3914.9
10°	4107.4	4086.3	4065.1	4036.2	4016.9	3991.9	3972.6	3945.6	3922.6	3901.4	3887.9
12.5°	4109.3	4082.4	4063.1	4030.4	4005.3	3978.4	3957.2	3926.4	3899.4	3878.3	3857.1
15°	4092.0	4067.0	4043.8	4009.2	3984.2	3959.1	3934.1	3901.4	3876.4	3851.3	3835.9
17.5°	4053.5	4030.4	4003.4	3970.7	3947.6	3924.5	3897.5	3870.6	3841.6	3814.7	3795.4
20°	4003.4	3978.4	3955.3	3922.6	3903.3	3878.3	3853.2	3824.4	3801.2	3774.3	3753.1
22.5°	3928.4	3905.2	3884.1	3864.8	3834.0	3814.7	3797.4	3764.7	3741.5	3716.5	3693.4
25°	3820.5	3797.4	3780.1	3756.9	3743.4	3722.3	3704.9	3676.1	3654.9	3631.8	3612.5
27.5°	3643.3	3629.9	3620.2	3606.7	3595.2	3585.6	3576.0	3552.8	3537.4	3516.3	3497.0
30°	3377.6	3375.7	3369.9	3364.1	3371.8	3371.8	3371.8	3368.0	3354.5	3339.1	3325.6
32.5°	3036.7	3040.6	3048.3	3054.1	3069.5	3086.8	3102.2	3109.9	3109.9	3100.3	3094.5
35°	2630.5	2636.2	2647.8	2663.2	2682.4	2703.6	2738.2	2746.0	2751.7	2751.7	2744.0
37.5°	2208.7	2206.8	2218.4	2231.8	2243.4	2258.8	2283.8	2289.6	2299.2	2295.4	2287.6
40°	1798.5	1788.9	1785.0	1788.9	1802.4	1796.6	1802.4	1798.5	1798.5	1785.0	1785.0
42.5°	1419.2	1407.7	1399.9	1394.2	1394.2	1380.7	1371.1	1361.5	1355.7	1346.0	1344.1
45°	1093.8	1080.3	1070.7	1066.8	1061.1	1043.7	1032.1	1020.6	1007.1	1003.3	1005.2
47.5°	849.2	835.7	831.9	822.3	812.6	803.0	795.3	781.8	779.9	772.2	779.9
50°	654.7	650.9	645.1	641.2	635.4	627.8	620.1	612.4	608.5	608.5	610.4
52.5°	508.4	510.3	504.5	498.7	494.9	494.9	485.2	483.3	483.3	475.6	483.3
55°	389.0	387.0	389.0	385.1	385.1	379.3	379.3	373.6	373.6	367.8	371.7
57.5°	285.0	288.8	285.0	286.9	290.8	285.0	283.0	277.3	281.1	277.3	279.2
60°	221.5	221.5	221.5	219.6	219.6	217.6	217.6	215.7	215.7	211.8	215.7
62.5°	163.7	165.6	165.6	165.6	167.6	165.6	163.7	165.6	163.7	163.7	165.6
65°	107.9	109.8	109.8	107.9	111.7	107.9	109.8	111.7	113.6	111.7	113.6
67.5°	73.2	73.2	75.1	77.0	75.1	77.0	78.9	77.0	78.9	82.8	78.9
70°	53.9	55.9	55.9	53.9	52.0	53.9	52.0	57.8	57.8	57.8	61.6
72.5°	34.6	34.6	32.7	32.7	32.7	32.7	32.7	38.5	34.6	32.7	36.6
75°	19.3	21.2	21.2	15.4	17.4	21.2	15.4	17.4	23.1	19.3	23.1
77.5°	11.6	11.6	11.6	11.6	11.6	11.6	15.4	13.5	13.5	13.5	15.4
80°	9.6	7.7	7.7	5.8	7.7	7.7	7.7	11.6	9.6	9.6	11.6
82.5°	3.9	3.9	1.9	0.0	3.9	3.9	3.9	3.9	3.9	3.9	7.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	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: P248950

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7
2.5°	3939.9	3939.9	3938.0	3934.1	3926.4	3926.4	3924.5	3918.7	3914.9	3912.9	3912.9
5°	3920.6	3912.9	3905.2	3884.1	3884.1	3880.2	3868.7	3860.9	3857.1	3847.4	3843.6
7.5°	3903.3	3880.2	3866.7	3853.2	3835.9	3828.2	3814.7	3808.9	3795.4	3785.8	3780.1
10°	3860.9	3845.5	3828.2	3807.0	3793.5	3778.2	3762.7	3751.2	3733.9	3724.2	3716.5
12.5°	3832.1	3808.9	3793.5	3770.4	3747.3	3733.9	3712.7	3699.2	3681.9	3662.6	3651.0
15°	3805.1	3780.1	3758.9	3733.9	3708.8	3693.4	3668.4	3653.0	3628.0	3608.7	3595.2
17.5°	3764.7	3743.4	3720.4	3689.5	3666.5	3647.2	3620.2	3601.0	3577.9	3552.8	3539.3
20°	3722.3	3697.2	3674.2	3643.3	3620.2	3597.1	3570.2	3549.0	3522.0	3498.9	3483.5
22.5°	3666.5	3637.6	3618.3	3587.5	3560.5	3535.5	3510.5	3485.4	3460.4	3441.1	3423.8
25°	3585.6	3554.7	3533.6	3508.5	3483.5	3464.3	3433.5	3418.1	3393.0	3375.7	3358.3
27.5°	3470.0	3446.9	3427.7	3402.6	3381.5	3366.1	3342.9	3327.6	3306.3	3290.9	3277.5
30°	3300.6	3281.3	3264.0	3238.9	3223.6	3210.1	3188.9	3175.4	3160.0	3142.6	3138.8
32.5°	3073.4	3057.9	3040.6	3023.3	3011.7	3004.0	2986.7	2979.0	2963.6	2953.9	2944.3
35°	2730.6	2717.1	2707.5	2699.8	2695.9	2697.8	2694.0	2701.7	2705.5	2703.6	2705.5
37.5°	2281.9	2274.2	2278.1	2283.8	2303.1	2328.2	2351.2	2385.9	2409.0	2432.1	2453.3
40°	1781.2	1787.0	1802.4	1837.0	1887.1	1943.0	1995.0	2060.5	2126.0	2172.2	2214.5
42.5°	1344.1	1361.5	1399.9	1450.0	1525.2	1607.9	1688.8	1785.0	1864.1	1941.0	1995.0
45°	1011.0	1034.0	1084.1	1153.5	1236.2	1332.5	1434.6	1542.4	1636.8	1715.8	1775.5
47.5°	787.6	808.8	858.9	932.0	1034.0	1134.2	1240.1	1351.8	1450.0	1527.1	1579.0
50°	622.0	648.9	693.2	770.3	872.4	978.2	1088.0	1197.7	1290.2	1355.7	1401.9
52.5°	489.1	514.2	556.5	637.4	741.4	847.3	949.3	1057.2	1138.0	1201.6	1232.4
55°	379.3	402.5	446.7	514.2	612.4	716.4	818.4	910.9	985.9	1032.1	1061.1
57.5°	288.8	306.2	337.0	404.4	493.0	589.2	675.9	768.4	826.1	858.9	878.1
60°	219.6	233.0	265.8	317.8	398.6	481.4	554.6	623.9	670.2	697.1	716.4
62.5°	165.6	181.0	204.1	248.4	310.0	377.4	439.0	491.0	529.5	546.9	560.4
65°	113.6	125.2	142.5	177.1	229.1	277.3	325.4	364.0	389.0	408.3	416.0
67.5°	84.7	92.4	102.1	129.0	165.6	204.1	236.8	263.8	290.8	298.5	312.0
70°	63.6	69.4	78.9	98.2	119.4	146.3	173.3	188.7	208.0	221.5	225.3
72.5°	40.4	42.3	52.0	63.6	80.8	98.2	115.6	129.0	140.6	148.3	152.1
75°	23.1	34.6	34.6	46.2	57.8	65.5	77.0	86.6	92.4	98.2	98.2
77.5°	15.4	21.2	23.1	28.9	34.6	44.3	53.9	59.7	65.5	67.4	67.4
80°	13.5	15.4	15.4	21.2	25.0	32.7	38.5	40.4	44.3	46.2	50.1
82.5°	5.8	7.7	9.6	15.4	17.4	17.4	23.1	25.0	28.9	30.8	30.8
85°	1.9	3.9	3.9	5.8	9.6	11.6	13.5	15.4	17.4	17.4	19.3
87.5°	1.9	1.9	0.0	1.9	3.9	3.9	7.7	7.7	7.7	11.6	11.6
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: P248950

CATALOG NUMBER: LD8B90D010 ER8B90950 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7	3943.7
2.5°	3909.1	3911.0	3903.3	3901.4	3897.5	3899.4	3903.3
5°	3837.8	3839.7	3832.1	3824.4	3824.4	3822.4	3824.4
7.5°	3770.4	3772.4	3760.8	3756.9	3749.2	3751.2	3751.2
10°	3703.0	3703.0	3685.7	3683.8	3678.0	3676.1	3676.1
12.5°	3637.6	3631.8	3618.3	3610.6	3614.5	3602.9	3602.9
15°	3579.8	3570.2	3552.8	3547.0	3537.4	3533.6	3533.6
17.5°	3520.1	3512.4	3497.0	3485.4	3473.9	3472.0	3473.9
20°	3462.3	3454.6	3435.4	3427.7	3418.1	3418.1	3414.2
22.5°	3404.5	3396.8	3379.6	3373.8	3360.3	3360.3	3362.2
25°	3344.8	3339.1	3319.8	3316.0	3314.1	3306.3	3310.2
27.5°	3264.0	3260.1	3244.7	3238.9	3231.3	3229.4	3233.2
30°	3115.7	3109.9	3098.4	3092.6	3079.2	3081.1	3084.9
32.5°	2930.9	2923.2	2907.7	2901.9	2890.4	2886.5	2888.5
35°	2699.8	2694.0	2680.5	2680.5	2669.0	2665.1	2669.0
37.5°	2464.9	2470.6	2464.9	2470.6	2464.9	2462.9	2464.9
40°	2243.4	2264.6	2268.4	2289.6	2281.9	2293.4	2291.5
42.5°	2031.6	2066.2	2079.7	2097.0	2093.2	2100.9	2106.7
45°	1817.8	1846.7	1860.2	1871.8	1873.7	1877.5	1879.5
47.5°	1615.6	1638.7	1640.6	1654.1	1652.2	1652.2	1658.0
50°	1426.9	1442.3	1446.1	1455.8	1448.1	1444.2	1446.1
52.5°	1251.7	1267.1	1263.2	1267.1	1257.5	1253.6	1255.5
55°	1072.6	1080.3	1080.3	1080.3	1068.8	1068.8	1068.8
57.5°	889.6	891.6	887.7	889.6	887.7	876.2	874.3
60°	722.2	722.2	720.2	722.2	716.4	710.6	710.6
62.5°	564.2	568.1	575.8	568.1	564.2	568.1	562.3
65°	421.8	429.4	427.5	431.3	429.4	429.4	425.6
67.5°	317.8	319.7	321.6	323.5	323.5	323.5	323.5
70°	233.0	238.8	236.8	236.8	236.8	236.8	248.4
72.5°	156.0	163.7	161.8	165.6	165.6	169.5	165.6
75°	105.9	113.6	109.8	115.6	113.6	109.8	119.4
77.5°	71.3	75.1	77.0	78.9	77.0	75.1	77.0
80°	50.1	53.9	52.0	53.9	53.9	53.9	55.9
82.5°	30.8	36.6	34.6	36.6	34.6	36.6	36.6
85°	21.2	23.1	19.3	23.1	21.2	21.2	25.0
87.5°	13.5	11.6	11.6	13.5	11.6	13.5	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)