

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: P249067

Luminaire Tested: **LD8B90D010 ER8B90927 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249067  
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 ER8B90927 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7306.9 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

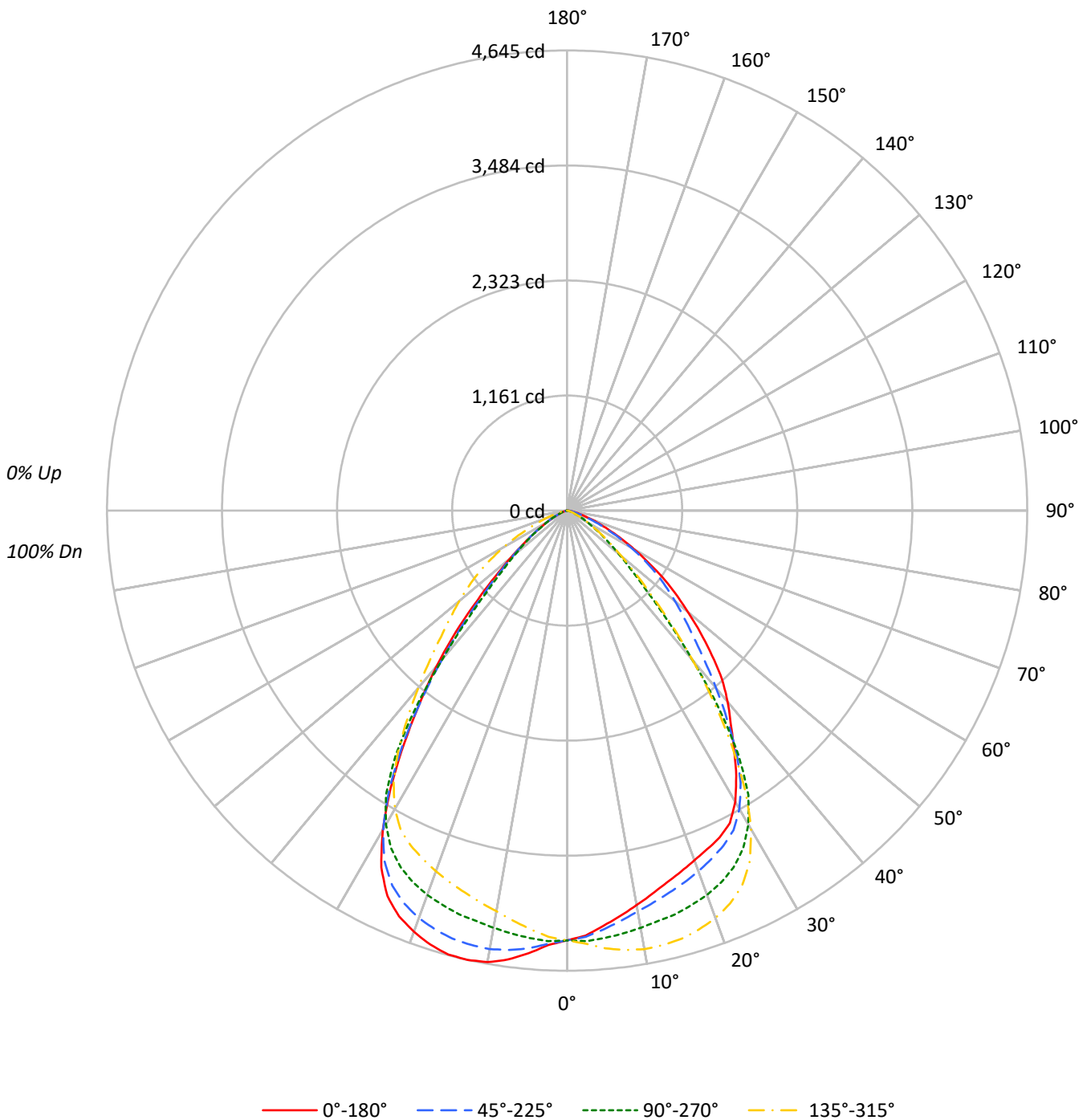
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0MMW

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.9	5.7
10°-20°	1195.6	16.4
20°-30°	1810.4	24.8
30°-40°	1814.5	24.8
40°-50°	1139.4	15.6
50°-60°	607.2	8.3
60°-70°	249.7	3.4
70°-80°	66.0	0.9
80°-90°	11.2	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°	3419.0	46.8
0°-40°	5233.5	71.6
0°-60°	6980.1	95.5
0°-90°	7306.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7306.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4338	4338	4338	4338	4338	
5°	4207	4332	4486	4332	4207	397
15°	3887	4219	4639	4219	3887	1099
25°	3641	3974	4293	3974	3641	1670
35°	2936	3018	2864	3018	2936	1839
45°	2067	1106	1279	1106	2067	1590
55°	1176	409	432	409	1176	1048
65°	468	125	114	125	468	486
75°	131	25	21	25	131	149
85°	28	0	2	0	28	30
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°	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9
2.5°	4293.4	4289.2	4287.0	4291.3	4293.4	4301.9	4299.8	4303.9	4303.9	4306.2	4310.3
5°	4206.6	4204.3	4206.6	4206.6	4215.0	4223.5	4221.3	4227.8	4231.9	4242.6	4246.8
7.5°	4126.0	4126.0	4123.9	4132.3	4136.6	4149.3	4147.2	4157.8	4164.2	4174.8	4189.6
10°	4043.5	4043.5	4045.5	4051.9	4054.0	4073.1	4073.1	4087.9	4096.3	4107.0	4126.0
12.5°	3962.9	3962.9	3975.8	3971.5	3979.9	3994.8	4001.1	4015.9	4028.6	4049.8	4068.9
15°	3886.6	3886.6	3890.9	3901.5	3907.9	3926.9	3937.5	3954.5	3969.3	3990.5	4018.0
17.5°	3821.1	3818.9	3821.1	3833.8	3846.5	3863.4	3871.9	3893.1	3907.9	3935.5	3960.9
20°	3755.4	3759.6	3759.6	3770.2	3778.6	3799.8	3808.4	3831.6	3848.6	3873.9	3903.6
22.5°	3698.2	3696.1	3696.1	3710.9	3717.3	3736.4	3744.8	3765.9	3785.1	3806.2	3833.8
25°	3641.1	3636.8	3645.3	3647.4	3651.5	3672.8	3679.1	3693.9	3713.1	3732.1	3759.6
27.5°	3556.2	3552.1	3554.2	3562.6	3569.0	3585.9	3590.2	3605.0	3619.8	3636.8	3660.1
30°	3393.1	3389.0	3386.9	3401.7	3408.1	3420.7	3427.1	3452.5	3456.7	3475.8	3492.7
32.5°	3177.1	3175.0	3179.2	3192.0	3198.3	3215.2	3223.8	3238.5	3249.1	3259.8	3276.7
35°	2935.7	2931.4	2935.7	2948.4	2948.4	2963.2	2969.7	2975.8	2973.8	2975.8	2971.7
37.5°	2711.2	2709.0	2711.2	2717.4	2711.2	2717.4	2711.2	2698.4	2675.2	2649.7	2624.3
40°	2520.6	2522.6	2510.0	2518.4	2495.0	2490.9	2467.6	2435.8	2389.3	2338.4	2266.4
42.5°	2317.3	2310.9	2302.4	2306.6	2287.6	2272.7	2234.6	2194.4	2135.0	2050.3	1963.5
45°	2067.3	2065.2	2060.9	2058.9	2046.0	2031.3	1999.5	1952.9	1887.2	1800.4	1696.6
47.5°	1823.7	1817.3	1817.3	1819.5	1804.6	1802.5	1777.0	1736.9	1679.6	1594.9	1486.9
50°	1590.6	1588.5	1592.8	1601.3	1590.6	1586.5	1569.6	1542.0	1491.2	1419.2	1317.4
52.5°	1380.9	1378.9	1383.2	1393.6	1389.4	1393.6	1376.8	1355.6	1321.6	1251.8	1162.8
55°	1175.6	1175.6	1175.6	1188.2	1188.2	1188.2	1179.8	1167.1	1135.2	1084.5	1001.9
57.5°	961.6	963.7	976.5	978.5	976.5	980.7	978.5	965.8	944.7	908.7	845.1
60°	781.5	781.5	787.9	794.4	792.1	794.4	794.4	787.9	766.8	737.1	686.2
62.5°	618.5	624.8	620.6	624.8	633.3	624.8	620.6	616.4	601.5	582.4	540.1
65°	468.1	472.4	472.4	474.4	470.1	472.4	464.0	457.5	449.1	427.8	400.4
67.5°	355.8	355.8	355.8	355.8	353.7	351.6	349.5	343.1	328.3	319.8	290.1
70°	273.3	260.6	260.6	260.6	260.6	262.7	256.3	247.8	243.6	228.7	207.6
72.5°	182.1	186.4	182.1	182.1	178.0	180.0	171.6	167.3	163.1	154.7	142.0
75°	131.3	120.7	125.0	127.1	120.7	125.0	116.4	108.0	108.0	101.7	95.3
77.5°	84.7	82.7	84.7	86.9	84.7	82.7	78.4	74.1	74.1	72.0	65.7
80°	61.4	59.3	59.3	59.3	57.2	59.3	55.1	55.1	50.8	48.7	44.4
82.5°	40.3	40.3	38.1	40.3	38.1	40.3	33.9	33.9	33.9	31.7	27.6
85°	27.6	23.3	23.3	25.4	21.2	25.4	23.3	21.2	19.1	19.1	16.9
87.5°	12.7	14.8	12.7	14.8	12.7	12.7	14.8	12.7	12.7	8.4	8.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9
2.5°	4316.6	4318.8	4318.8	4327.3	4331.5	4333.6	4333.6	4350.6	4344.2	4348.5	4352.7
5°	4255.3	4267.9	4272.2	4272.2	4295.5	4303.9	4312.3	4331.5	4333.6	4346.3	4361.2
7.5°	4195.9	4210.8	4219.3	4238.3	4253.2	4267.9	4293.4	4306.2	4318.8	4335.8	4354.8
10°	4138.8	4155.8	4172.6	4187.5	4210.8	4229.9	4246.8	4276.3	4291.3	4314.6	4339.9
12.5°	4083.8	4107.0	4121.8	4147.2	4172.6	4189.6	4215.0	4242.6	4265.9	4289.2	4318.8
15°	4035.0	4062.5	4079.5	4107.0	4134.6	4157.8	4185.3	4219.3	4236.2	4263.8	4291.3
17.5°	3981.9	4011.8	4032.9	4058.2	4092.2	4117.5	4140.9	4174.8	4195.9	4225.6	4257.3
20°	3926.9	3956.6	3981.9	4007.5	4041.3	4066.8	4094.3	4128.2	4151.5	4181.1	4206.6
22.5°	3861.3	3888.9	3916.4	3945.9	3979.9	4001.1	4032.9	4062.5	4087.9	4115.5	4140.9
25°	3776.6	3810.5	3831.6	3859.1	3886.6	3909.9	3943.9	3973.5	3994.8	4020.2	4043.5
27.5°	3677.1	3702.5	3719.4	3742.6	3770.2	3791.4	3816.8	3846.5	3867.6	3890.9	3907.9
30°	3507.5	3530.9	3545.7	3562.6	3590.2	3609.2	3630.5	3657.9	3672.8	3689.8	3704.5
32.5°	3285.1	3304.2	3312.7	3325.4	3344.5	3363.5	3380.5	3403.8	3410.1	3420.7	3420.7
35°	2963.2	2967.4	2965.4	2969.7	2978.1	2988.7	3003.4	3018.3	3026.7	3026.7	3020.4
37.5°	2586.2	2560.8	2533.3	2512.1	2505.7	2501.4	2510.0	2516.3	2524.8	2529.0	2518.4
40°	2194.4	2137.2	2075.7	2020.6	1982.6	1965.6	1959.3	1963.5	1963.5	1978.3	1978.3
42.5°	1857.6	1768.6	1677.6	1594.9	1539.8	1497.5	1478.5	1478.5	1480.5	1491.2	1497.5
45°	1578.0	1465.8	1359.8	1268.8	1192.5	1137.4	1112.1	1105.6	1103.5	1107.8	1122.5
47.5°	1364.1	1247.6	1137.4	1025.2	944.7	889.6	866.4	857.8	849.4	857.8	860.0
50°	1196.8	1076.1	959.5	847.2	762.5	713.8	684.1	671.4	669.3	669.3	673.5
52.5°	1044.2	932.0	815.5	701.1	612.1	565.5	538.0	531.7	523.2	531.7	531.7
55°	900.1	787.9	673.5	565.5	491.4	442.7	417.3	408.8	404.6	410.8	410.8
57.5°	743.5	648.1	542.2	444.8	370.7	336.8	317.7	307.1	305.0	309.3	305.0
60°	610.0	529.5	438.4	349.5	292.3	256.3	241.5	237.3	233.0	237.3	237.3
62.5°	482.8	415.1	341.0	273.3	224.6	199.1	182.1	182.1	180.0	180.0	182.1
65°	358.0	305.0	252.0	194.8	156.7	137.7	125.0	125.0	122.8	125.0	122.8
67.5°	260.6	224.6	182.1	142.0	112.3	101.7	93.1	86.9	91.1	86.9	84.7
70°	190.7	161.0	131.3	108.0	86.9	76.3	70.0	67.7	63.6	63.6	63.6
72.5°	127.1	108.0	88.9	70.0	57.2	46.6	44.4	40.3	36.0	38.1	42.4
75°	84.7	72.0	63.6	50.8	38.1	38.1	25.4	25.4	21.2	25.4	19.1
77.5°	59.3	48.7	38.1	31.7	25.4	23.3	16.9	16.9	14.8	14.8	14.8
80°	42.4	36.0	27.6	23.3	16.9	16.9	14.8	12.7	10.6	10.6	12.7
82.5°	25.4	19.1	19.1	16.9	10.6	8.4	6.4	8.4	4.3	4.3	4.3
85°	14.8	12.7	10.6	6.4	4.3	4.3	2.1	0.0	2.1	2.1	0.0
87.5°	8.4	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°	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9
2.5°	4363.3	4361.2	4365.4	4365.4	4378.2	4375.9	4382.3	4382.3	4378.2	4380.2	4388.7
5°	4378.2	4384.5	4397.2	4407.8	4426.8	4435.3	4445.9	4456.5	4458.6	4465.0	4471.3
7.5°	4378.2	4399.3	4414.2	4433.2	4458.6	4473.4	4496.7	4515.8	4524.3	4534.8	4547.6
10°	4369.6	4390.8	4418.3	4439.5	4471.3	4494.6	4517.9	4547.6	4560.3	4577.2	4594.2
12.5°	4352.7	4375.9	4405.6	4433.2	4469.2	4490.3	4520.0	4547.6	4566.6	4589.9	4609.0
15°	4327.3	4354.8	4382.3	4409.9	4448.0	4473.4	4501.0	4532.7	4551.9	4577.2	4594.2
17.5°	4287.0	4316.6	4342.2	4367.5	4403.5	4433.2	4458.6	4488.3	4507.3	4528.6	4551.9
20°	4238.3	4265.9	4293.4	4314.6	4350.6	4375.9	4403.5	4431.0	4445.9	4450.2	4486.2
22.5°	4176.9	4195.9	4217.1	4251.0	4272.2	4295.5	4320.9	4346.3	4361.2	4384.5	4397.2
25°	4075.2	4094.3	4117.5	4132.3	4157.8	4176.9	4202.3	4229.9	4238.3	4255.3	4267.9
27.5°	3933.3	3943.9	3954.5	3967.2	3981.9	3992.6	4007.5	4020.2	4028.6	4037.1	4045.5
30°	3708.8	3708.8	3708.8	3700.2	3706.6	3713.1	3715.1	3713.1	3713.1	3710.9	3710.9
32.5°	3412.2	3395.4	3376.2	3359.4	3353.0	3344.5	3340.2	3333.8	3323.4	3317.0	3319.1
35°	3011.8	2973.8	2950.5	2929.4	2912.4	2899.7	2893.3	2887.0	2884.8	2876.4	2867.8
37.5°	2512.1	2484.6	2467.6	2454.9	2440.0	2427.3	2429.4	2431.6	2437.9	2433.7	2435.8
40°	1982.6	1976.2	1982.6	1967.7	1963.5	1967.7	1978.3	1993.2	2001.6	2010.0	2024.9
42.5°	1508.1	1518.6	1533.5	1533.5	1539.8	1548.3	1561.0	1584.3	1597.0	1611.8	1628.9
45°	1135.2	1148.1	1167.1	1173.4	1177.6	1188.2	1203.1	1222.1	1230.6	1243.4	1258.1
47.5°	874.8	883.2	893.8	904.4	915.0	919.2	934.1	934.1	944.7	953.2	957.4
50°	682.0	690.5	699.0	705.3	709.5	715.9	720.1	726.5	728.6	732.8	735.0
52.5°	533.7	544.4	544.4	548.6	555.0	561.3	559.2	561.3	563.4	563.4	569.7
55°	417.3	417.3	423.7	423.7	427.8	425.7	427.8	427.8	427.8	427.8	430.0
57.5°	311.3	313.5	319.8	315.6	313.5	317.7	313.5	317.7	315.6	319.8	313.5
60°	239.3	239.3	241.5	241.5	243.6	243.6	243.6	241.5	241.5	239.3	239.3
62.5°	180.0	182.1	184.3	182.1	182.1	182.1	180.0	180.0	178.0	175.7	175.7
65°	120.7	118.7	122.8	118.7	120.7	120.7	118.7	120.7	114.4	116.4	114.4
67.5°	86.9	84.7	82.7	84.7	82.7	80.4	80.4	82.7	84.7	78.4	78.4
70°	57.2	59.3	57.2	59.3	61.4	61.4	59.3	57.2	59.3	55.1	57.2
72.5°	36.0	36.0	36.0	36.0	36.0	38.1	38.1	38.1	33.9	33.9	31.7
75°	16.9	23.3	19.1	16.9	23.3	23.3	21.2	21.2	19.1	19.1	19.1
77.5°	16.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	10.6	12.7	10.6
80°	8.4	8.4	8.4	6.4	8.4	8.4	10.6	8.4	8.4	6.4	10.6
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: P249067

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9
2.5°	4386.6	4384.5	4386.6	4388.7	4386.6	4384.5	4386.6	4388.7	4380.2	4378.2	4382.3
5°	4479.8	4479.8	4484.0	4486.2	4484.0	4479.8	4479.8	4471.3	4465.0	4458.6	4456.5
7.5°	4560.3	4564.6	4568.7	4570.8	4568.7	4564.6	4560.3	4547.6	4534.8	4524.3	4515.8
10°	4609.0	4615.3	4623.9	4628.0	4623.9	4615.3	4609.0	4594.2	4577.2	4560.3	4547.6
12.5°	4630.2	4636.6	4647.2	4645.0	4647.2	4636.6	4630.2	4609.0	4589.9	4566.6	4547.6
15°	4615.3	4623.9	4634.3	4638.6	4634.3	4623.9	4615.3	4594.2	4577.2	4551.9	4532.7
17.5°	4568.7	4581.4	4587.9	4594.2	4587.9	4581.4	4568.7	4551.9	4528.6	4507.3	4488.3
20°	4505.2	4513.7	4522.2	4524.3	4522.2	4513.7	4505.2	4486.2	4450.2	4445.9	4431.0
22.5°	4414.2	4420.5	4439.5	4433.2	4439.5	4420.5	4414.2	4397.2	4384.5	4361.2	4346.3
25°	4282.8	4289.2	4291.3	4293.4	4291.3	4289.2	4282.8	4267.9	4255.3	4238.3	4229.9
27.5°	4056.2	4056.2	4060.4	4062.5	4060.4	4056.2	4056.2	4045.5	4037.1	4028.6	4020.2
30°	3713.1	3713.1	3713.1	3723.6	3713.1	3713.1	3713.1	3710.9	3710.9	3713.1	3713.1
32.5°	3317.0	3312.7	3308.5	3312.7	3308.5	3312.7	3317.0	3319.1	3317.0	3323.4	3333.8
35°	2867.8	2865.8	2872.1	2863.7	2872.1	2865.8	2867.8	2867.8	2876.4	2884.8	2887.0
37.5°	2437.9	2433.7	2442.2	2433.7	2442.2	2433.7	2437.9	2435.8	2433.7	2437.9	2431.6
40°	2029.2	2033.3	2033.3	2050.3	2033.3	2033.3	2029.2	2024.9	2010.0	2001.6	1993.2
42.5°	1637.3	1650.0	1645.8	1658.5	1645.8	1650.0	1637.3	1628.9	1611.8	1597.0	1584.3
45°	1266.6	1275.2	1275.2	1279.4	1275.2	1275.2	1266.6	1258.1	1243.4	1230.6	1222.1
47.5°	972.2	972.2	972.2	974.4	972.2	972.2	972.2	957.4	953.2	944.7	934.1
50°	739.2	741.3	743.5	745.5	743.5	741.3	739.2	735.0	732.8	728.6	726.5
52.5°	567.7	569.7	565.5	569.7	565.5	569.7	567.7	569.7	563.4	563.4	561.3
55°	430.0	427.8	430.0	432.1	430.0	427.8	430.0	430.0	427.8	427.8	427.8
57.5°	315.6	311.3	311.3	311.3	311.3	311.3	315.6	313.5	319.8	315.6	317.7
60°	235.1	237.3	237.3	239.3	237.3	237.3	235.1	239.3	239.3	241.5	241.5
62.5°	173.7	180.0	175.7	180.0	175.7	180.0	173.7	175.7	175.7	178.0	180.0
65°	112.3	112.3	112.3	114.4	112.3	112.3	112.3	114.4	116.4	114.4	120.7
67.5°	76.3	78.4	82.7	80.4	82.7	78.4	76.3	78.4	78.4	84.7	82.7
70°	61.4	55.1	55.1	61.4	55.1	55.1	61.4	57.2	55.1	59.3	57.2
72.5°	36.0	31.7	36.0	36.0	36.0	31.7	36.0	31.7	33.9	33.9	38.1
75°	19.1	16.9	14.8	21.2	14.8	16.9	19.1	19.1	19.1	19.1	21.2
77.5°	12.7	10.6	14.8	14.8	14.8	10.6	12.7	10.6	12.7	10.6	12.7
80°	6.4	8.4	6.4	10.6	6.4	8.4	6.4	10.6	6.4	8.4	8.4
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: P249067

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9
2.5°	4382.3	4375.9	4378.2	4365.4	4365.4	4361.2	4363.3	4352.7	4348.5	4344.2	4350.6
5°	4445.9	4435.3	4426.8	4407.8	4397.2	4384.5	4378.2	4361.2	4346.3	4333.6	4331.5
7.5°	4496.7	4473.4	4458.6	4433.2	4414.2	4399.3	4378.2	4354.8	4335.8	4318.8	4306.2
10°	4517.9	4494.6	4471.3	4439.5	4418.3	4390.8	4369.6	4339.9	4314.6	4291.3	4276.3
12.5°	4520.0	4490.3	4469.2	4433.2	4405.6	4375.9	4352.7	4318.8	4289.2	4265.9	4242.6
15°	4501.0	4473.4	4448.0	4409.9	4382.3	4354.8	4327.3	4291.3	4263.8	4236.2	4219.3
17.5°	4458.6	4433.2	4403.5	4367.5	4342.2	4316.6	4287.0	4257.3	4225.6	4195.9	4174.8
20°	4403.5	4375.9	4350.6	4314.6	4293.4	4265.9	4238.3	4206.6	4181.1	4151.5	4128.2
22.5°	4320.9	4295.5	4272.2	4251.0	4217.1	4195.9	4176.9	4140.9	4115.5	4087.9	4062.5
25°	4202.3	4176.9	4157.8	4132.3	4117.5	4094.3	4075.2	4043.5	4020.2	3994.8	3973.5
27.5°	4007.5	3992.6	3981.9	3967.2	3954.5	3943.9	3933.3	3907.9	3890.9	3867.6	3846.5
30°	3715.1	3713.1	3706.6	3700.2	3708.8	3708.8	3708.8	3704.5	3689.8	3672.8	3657.9
32.5°	3340.2	3344.5	3353.0	3359.4	3376.2	3395.4	3412.2	3420.7	3420.7	3410.1	3403.8
35°	2893.3	2899.7	2912.4	2929.4	2950.5	2973.8	3011.8	3020.4	3026.7	3026.7	3018.3
37.5°	2429.4	2427.3	2440.0	2454.9	2467.6	2484.6	2512.1	2518.4	2529.0	2524.8	2516.3
40°	1978.3	1967.7	1963.5	1967.7	1982.6	1976.2	1982.6	1978.3	1978.3	1963.5	1963.5
42.5°	1561.0	1548.3	1539.8	1533.5	1533.5	1518.6	1508.1	1497.5	1491.2	1480.5	1478.5
45°	1203.1	1188.2	1177.6	1173.4	1167.1	1148.1	1135.2	1122.5	1107.8	1103.5	1105.6
47.5°	934.1	919.2	915.0	904.4	893.8	883.2	874.8	860.0	857.8	849.4	857.8
50°	720.1	715.9	709.5	705.3	699.0	690.5	682.0	673.5	669.3	669.3	671.4
52.5°	559.2	561.3	555.0	548.6	544.4	544.4	533.7	531.7	531.7	523.2	531.7
55°	427.8	425.7	427.8	423.7	423.7	417.3	417.3	410.8	410.8	404.6	408.8
57.5°	313.5	317.7	313.5	315.6	319.8	313.5	311.3	305.0	309.3	305.0	307.1
60°	243.6	243.6	243.6	241.5	241.5	239.3	239.3	237.3	237.3	233.0	237.3
62.5°	180.0	182.1	182.1	182.1	184.3	182.1	180.0	182.1	180.0	180.0	182.1
65°	118.7	120.7	120.7	118.7	122.8	118.7	120.7	122.8	125.0	122.8	125.0
67.5°	80.4	80.4	82.7	84.7	82.7	84.7	86.9	84.7	86.9	91.1	86.9
70°	59.3	61.4	61.4	59.3	57.2	59.3	57.2	63.6	63.6	63.6	67.7
72.5°	38.1	38.1	36.0	36.0	36.0	36.0	36.0	42.4	38.1	36.0	40.3
75°	21.2	23.3	23.3	16.9	19.1	23.3	16.9	19.1	25.4	21.2	25.4
77.5°	12.7	12.7	12.7	12.7	12.7	12.7	16.9	14.8	14.8	14.8	16.9
80°	10.6	8.4	8.4	6.4	8.4	8.4	8.4	12.7	10.6	10.6	12.7
82.5°	4.3	4.3	2.1	0.0	4.3	4.3	4.3	4.3	4.3	4.3	8.4
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: P249067

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9
2.5°	4333.6	4333.6	4331.5	4327.3	4318.8	4318.8	4316.6	4310.3	4306.2	4303.9	4303.9
5°	4312.3	4303.9	4295.5	4272.2	4272.2	4267.9	4255.3	4246.8	4242.6	4231.9	4227.8
7.5°	4293.4	4267.9	4253.2	4238.3	4219.3	4210.8	4195.9	4189.6	4174.8	4164.2	4157.8
10°	4246.8	4229.9	4210.8	4187.5	4172.6	4155.8	4138.8	4126.0	4107.0	4096.3	4087.9
12.5°	4215.0	4189.6	4172.6	4147.2	4121.8	4107.0	4083.8	4068.9	4049.8	4028.6	4015.9
15°	4185.3	4157.8	4134.6	4107.0	4079.5	4062.5	4035.0	4018.0	3990.5	3969.3	3954.5
17.5°	4140.9	4117.5	4092.2	4058.2	4032.9	4011.8	3981.9	3960.9	3935.5	3907.9	3893.1
20°	4094.3	4066.8	4041.3	4007.5	3981.9	3956.6	3926.9	3903.6	3873.9	3848.6	3831.6
22.5°	4032.9	4001.1	3979.9	3945.9	3916.4	3888.9	3861.3	3833.8	3806.2	3785.1	3765.9
25°	3943.9	3909.9	3886.6	3859.1	3831.6	3810.5	3776.6	3759.6	3732.1	3713.1	3693.9
27.5°	3816.8	3791.4	3770.2	3742.6	3719.4	3702.5	3677.1	3660.1	3636.8	3619.8	3605.0
30°	3630.5	3609.2	3590.2	3562.6	3545.7	3530.9	3507.5	3492.7	3475.8	3456.7	3452.5
32.5°	3380.5	3363.5	3344.5	3325.4	3312.7	3304.2	3285.1	3276.7	3259.8	3249.1	3238.5
35°	3003.4	2988.7	2978.1	2969.7	2965.4	2967.4	2963.2	2971.7	2975.8	2973.8	2975.8
37.5°	2510.0	2501.4	2505.7	2512.1	2533.3	2560.8	2586.2	2624.3	2649.7	2675.2	2698.4
40°	1959.3	1965.6	1982.6	2020.6	2075.7	2137.2	2194.4	2266.4	2338.4	2389.3	2435.8
42.5°	1478.5	1497.5	1539.8	1594.9	1677.6	1768.6	1857.6	1963.5	2050.3	2135.0	2194.4
45°	1112.1	1137.4	1192.5	1268.8	1359.8	1465.8	1578.0	1696.6	1800.4	1887.2	1952.9
47.5°	866.4	889.6	944.7	1025.2	1137.4	1247.6	1364.1	1486.9	1594.9	1679.6	1736.9
50°	684.1	713.8	762.5	847.2	959.5	1076.1	1196.8	1317.4	1419.2	1491.2	1542.0
52.5°	538.0	565.5	612.1	701.1	815.5	932.0	1044.2	1162.8	1251.8	1321.6	1355.6
55°	417.3	442.7	491.4	565.5	673.5	787.9	900.1	1001.9	1084.5	1135.2	1167.1
57.5°	317.7	336.8	370.7	444.8	542.2	648.1	743.5	845.1	908.7	944.7	965.8
60°	241.5	256.3	292.3	349.5	438.4	529.5	610.0	686.2	737.1	766.8	787.9
62.5°	182.1	199.1	224.6	273.3	341.0	415.1	482.8	540.1	582.4	601.5	616.4
65°	125.0	137.7	156.7	194.8	252.0	305.0	358.0	400.4	427.8	449.1	457.5
67.5°	93.1	101.7	112.3	142.0	182.1	224.6	260.6	290.1	319.8	328.3	343.1
70°	70.0	76.3	86.9	108.0	131.3	161.0	190.7	207.6	228.7	243.6	247.8
72.5°	44.4	46.6	57.2	70.0	88.9	108.0	127.1	142.0	154.7	163.1	167.3
75°	25.4	38.1	38.1	50.8	63.6	72.0	84.7	95.3	101.7	108.0	108.0
77.5°	16.9	23.3	25.4	31.7	38.1	48.7	59.3	65.7	72.0	74.1	74.1
80°	14.8	16.9	16.9	23.3	27.6	36.0	42.4	44.4	48.7	50.8	55.1
82.5°	6.4	8.4	10.6	16.9	19.1	19.1	25.4	27.6	31.7	33.9	33.9
85°	2.1	4.3	4.3	6.4	10.6	12.7	14.8	16.9	19.1	19.1	21.2
87.5°	2.1	2.1	0.0	2.1	4.3	4.3	8.4	8.4	8.4	12.7	12.7
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: P249067

CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9	4337.9
2.5°	4299.8	4301.9	4293.4	4291.3	4287.0	4289.2	4293.4
5°	4221.3	4223.5	4215.0	4206.6	4206.6	4204.3	4206.6
7.5°	4147.2	4149.3	4136.6	4132.3	4123.9	4126.0	4126.0
10°	4073.1	4073.1	4054.0	4051.9	4045.5	4043.5	4043.5
12.5°	4001.1	3994.8	3979.9	3971.5	3975.8	3962.9	3962.9
15°	3937.5	3926.9	3907.9	3901.5	3890.9	3886.6	3886.6
17.5°	3871.9	3863.4	3846.5	3833.8	3821.1	3818.9	3821.1
20°	3808.4	3799.8	3778.6	3770.2	3759.6	3759.6	3755.4
22.5°	3744.8	3736.4	3717.3	3710.9	3696.1	3696.1	3698.2
25°	3679.1	3672.8	3651.5	3647.4	3645.3	3636.8	3641.1
27.5°	3590.2	3585.9	3569.0	3562.6	3554.2	3552.1	3556.2
30°	3427.1	3420.7	3408.1	3401.7	3386.9	3389.0	3393.1
32.5°	3223.8	3215.2	3198.3	3192.0	3179.2	3175.0	3177.1
35°	2969.7	2963.2	2948.4	2948.4	2935.7	2931.4	2935.7
37.5°	2711.2	2717.4	2711.2	2717.4	2711.2	2709.0	2711.2
40°	2467.6	2490.9	2495.0	2518.4	2510.0	2522.6	2520.6
42.5°	2234.6	2272.7	2287.6	2306.6	2302.4	2310.9	2317.3
45°	1999.5	2031.3	2046.0	2058.9	2060.9	2065.2	2067.3
47.5°	1777.0	1802.5	1804.6	1819.5	1817.3	1817.3	1823.7
50°	1569.6	1586.5	1590.6	1601.3	1592.8	1588.5	1590.6
52.5°	1376.8	1393.6	1389.4	1393.6	1383.2	1378.9	1380.9
55°	1179.8	1188.2	1188.2	1188.2	1175.6	1175.6	1175.6
57.5°	978.5	980.7	976.5	978.5	976.5	963.7	961.6
60°	794.4	794.4	792.1	794.4	787.9	781.5	781.5
62.5°	620.6	624.8	633.3	624.8	620.6	624.8	618.5
65°	464.0	472.4	470.1	474.4	472.4	472.4	468.1
67.5°	349.5	351.6	353.7	355.8	355.8	355.8	355.8
70°	256.3	262.7	260.6	260.6	260.6	260.6	273.3
72.5°	171.6	180.0	178.0	182.1	182.1	186.4	182.1
75°	116.4	125.0	120.7	127.1	125.0	120.7	131.3
77.5°	78.4	82.7	84.7	86.9	84.7	82.7	84.7
80°	55.1	59.3	57.2	59.3	59.3	59.3	61.4
82.5°	33.9	40.3	38.1	40.3	38.1	40.3	40.3
85°	23.3	25.4	21.2	25.4	23.3	23.3	27.6
87.5°	14.8	12.7	12.7	14.8	12.7	14.8	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)