

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: P248970

Luminaire Tested: **LD8B120D010 ER8B1209730 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248970  
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: LD8B120D010 ER8B1209730 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6940.0 lumens  
Efficiency: N/A  
Efficacy: 58.7 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

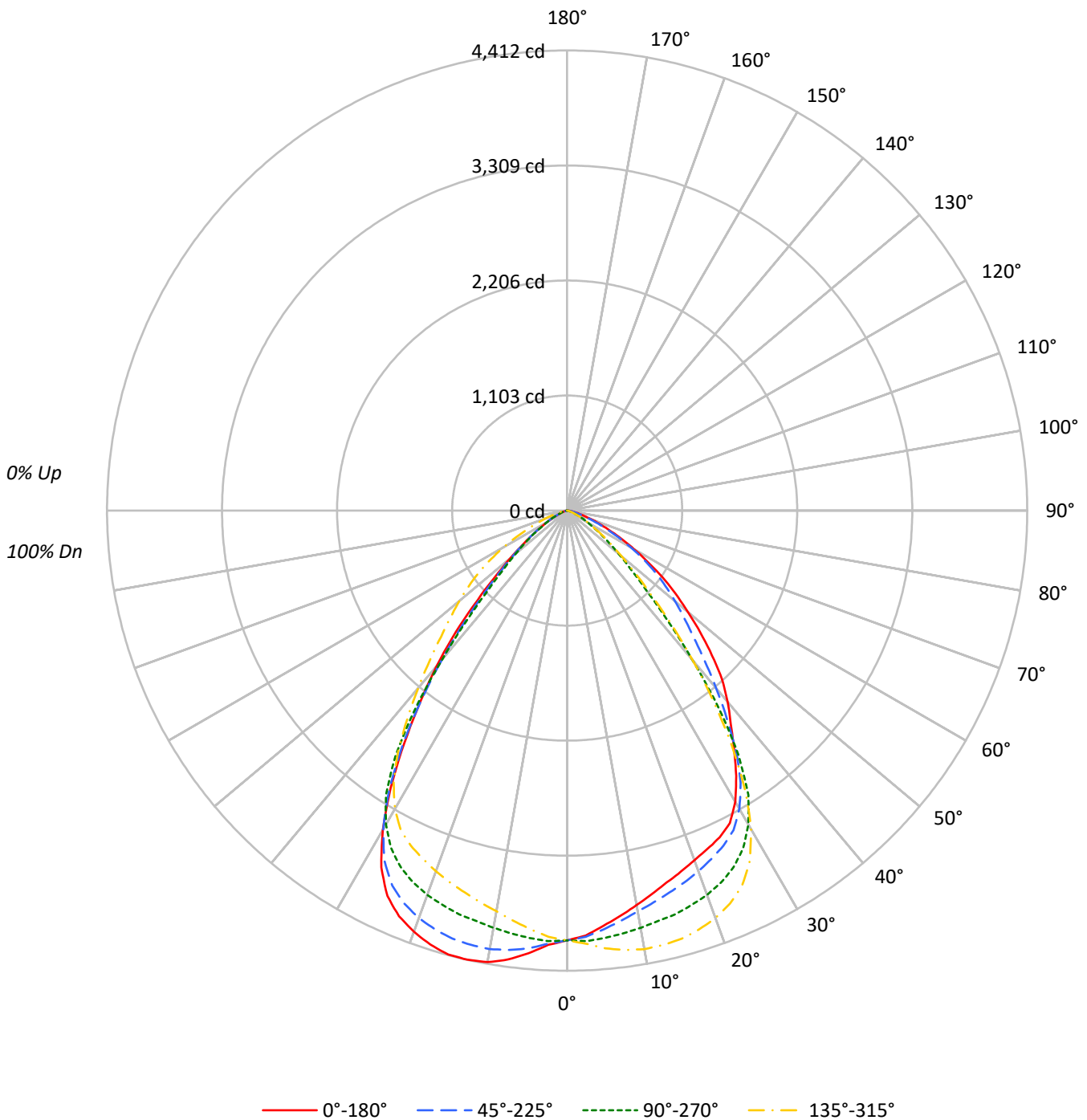
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	392.2	5.7
10°-20°	1135.6	16.4
20°-30°	1719.5	24.8
30°-40°	1723.4	24.8
40°-50°	1082.2	15.6
50°-60°	576.7	8.3
60°-70°	237.2	3.4
70°-80°	62.7	0.9
80°-90°	10.6	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°	3247.3	46.8
0°-40°	4970.7	71.6
0°-60°	6629.6	95.5
0°-90°	6940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6940.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4120	4120	4120	4120	4120	
5°	3995	4114	4261	4114	3995	377
15°	3692	4007	4406	4007	3692	1044
25°	3458	3774	4078	3774	3458	1586
35°	2788	2867	2720	2867	2788	1747
45°	1964	1050	1215	1050	1964	1510
55°	1116	388	410	388	1116	995
65°	445	119	109	119	445	461
75°	125	24	20	24	125	141
85°	26	0	2	0	26	29
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°	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1
2.5°	4077.8	4073.8	4071.8	4075.8	4077.8	4085.9	4083.9	4087.8	4087.8	4089.9	4093.9
5°	3995.4	3993.3	3995.4	3995.4	4003.4	4011.4	4009.4	4015.5	4019.4	4029.6	4033.5
7.5°	3918.9	3918.9	3916.9	3924.9	3928.9	3941.0	3939.0	3949.1	3955.1	3965.1	3979.2
10°	3840.4	3840.4	3842.4	3848.5	3850.5	3868.6	3868.6	3882.7	3890.7	3900.8	3918.9
12.5°	3764.0	3764.0	3776.1	3772.0	3780.1	3794.1	3800.2	3814.3	3826.3	3846.5	3864.6
15°	3691.5	3691.5	3695.6	3705.6	3711.7	3729.8	3739.8	3756.0	3770.0	3790.2	3816.3
17.5°	3629.2	3627.2	3629.2	3641.3	3653.4	3669.4	3677.5	3697.6	3711.7	3737.8	3762.0
20°	3566.8	3570.9	3570.9	3580.9	3588.9	3609.1	3617.1	3639.3	3655.4	3679.5	3707.7
22.5°	3512.5	3510.5	3510.5	3524.6	3530.7	3548.7	3556.7	3576.9	3595.0	3615.1	3641.3
25°	3458.2	3454.1	3462.3	3464.2	3468.2	3488.3	3494.4	3508.5	3526.6	3544.7	3570.9
27.5°	3377.7	3373.7	3375.7	3383.8	3389.8	3405.9	3409.9	3424.0	3438.1	3454.1	3476.3
30°	3222.8	3218.8	3216.8	3230.9	3236.9	3248.9	3255.0	3279.2	3283.1	3301.3	3317.3
32.5°	3017.6	3015.6	3019.7	3031.7	3037.7	3053.9	3061.9	3076.0	3086.0	3096.1	3112.2
35°	2788.3	2784.2	2788.3	2800.4	2800.4	2814.5	2820.5	2826.5	2824.5	2826.5	2822.5
37.5°	2575.1	2573.0	2575.1	2581.0	2575.1	2581.0	2575.1	2563.0	2540.9	2516.7	2492.5
40°	2394.0	2396.0	2384.0	2392.0	2369.8	2365.8	2343.7	2313.5	2269.3	2221.0	2152.6
42.5°	2200.9	2194.8	2186.8	2190.8	2172.7	2158.6	2122.4	2084.2	2027.8	1947.4	1864.9
45°	1963.5	1961.5	1957.4	1955.4	1943.4	1929.3	1899.1	1854.8	1792.5	1710.0	1611.4
47.5°	1732.1	1726.1	1726.1	1728.1	1714.0	1712.0	1687.8	1649.6	1595.3	1514.8	1412.2
50°	1510.8	1508.8	1512.9	1520.9	1510.8	1506.8	1490.7	1464.6	1416.3	1347.9	1251.3
52.5°	1311.6	1309.6	1313.7	1323.7	1319.7	1323.7	1307.7	1287.5	1255.3	1188.9	1104.5
55°	1116.5	1116.5	1116.5	1128.6	1128.6	1128.6	1120.5	1108.5	1078.3	1030.0	951.6
57.5°	913.3	915.3	927.4	929.4	927.4	931.5	929.4	917.3	897.3	863.1	802.7
60°	742.3	742.3	748.4	754.4	752.4	754.4	754.4	748.4	728.3	700.1	651.8
62.5°	587.4	593.5	589.4	593.5	601.5	593.5	589.4	585.4	571.4	553.2	513.0
65°	444.6	448.6	448.6	450.6	446.6	448.6	440.6	434.6	426.5	406.4	380.2
67.5°	338.0	338.0	338.0	338.0	335.9	334.0	332.0	325.9	311.8	303.8	275.6
70°	259.5	247.4	247.4	247.4	247.4	249.5	243.4	235.4	231.4	217.3	197.2
72.5°	173.0	177.0	173.0	173.0	169.0	171.0	163.0	158.9	154.9	146.9	134.8
75°	124.7	114.7	118.7	120.7	114.7	118.7	110.6	102.6	102.6	96.6	90.5
77.5°	80.5	78.5	80.5	82.5	80.5	78.5	74.4	70.4	70.4	68.4	62.4
80°	58.4	56.3	56.3	56.3	54.3	56.3	52.3	52.3	48.3	46.3	42.2
82.5°	38.3	38.3	36.2	38.3	36.2	38.3	32.2	32.2	32.2	30.1	26.2
85°	26.2	22.1	22.1	24.2	20.1	24.2	22.1	20.1	18.1	18.1	16.1
87.5°	12.1	14.1	12.1	14.1	12.1	12.1	14.1	12.1	12.1	8.0	8.0
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: P248970

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1
2.5°	4099.9	4101.9	4101.9	4110.0	4114.0	4116.0	4116.0	4132.1	4126.1	4130.2	4134.1
5°	4041.6	4053.6	4057.7	4057.7	4079.8	4087.8	4095.9	4114.0	4116.0	4128.1	4142.2
7.5°	3985.3	3999.3	4007.4	4025.5	4039.6	4053.6	4077.8	4089.9	4101.9	4118.1	4136.1
10°	3930.9	3947.1	3963.1	3977.2	3999.3	4017.5	4033.5	4061.7	4075.8	4097.9	4122.0
12.5°	3878.7	3900.8	3914.9	3939.0	3963.1	3979.2	4003.4	4029.6	4051.7	4073.8	4101.9
15°	3832.4	3858.6	3874.6	3900.8	3927.0	3949.1	3975.2	4007.4	4023.5	4049.7	4075.8
17.5°	3782.0	3810.3	3830.4	3854.5	3886.7	3910.8	3933.0	3965.1	3985.3	4013.4	4043.6
20°	3729.8	3758.0	3782.0	3806.2	3838.4	3862.5	3888.7	3920.9	3943.0	3971.2	3995.4
22.5°	3667.4	3693.6	3719.7	3747.8	3780.1	3800.2	3830.4	3858.6	3882.7	3908.8	3933.0
25°	3587.0	3619.2	3639.3	3665.4	3691.5	3713.7	3745.9	3774.0	3794.1	3818.3	3840.4
27.5°	3492.4	3516.6	3532.6	3554.7	3580.9	3601.0	3625.1	3653.4	3673.5	3695.6	3711.7
30°	3331.4	3353.6	3367.7	3383.8	3409.9	3428.1	3448.2	3474.3	3488.3	3504.5	3518.6
32.5°	3120.2	3138.3	3146.4	3158.4	3176.6	3194.6	3210.8	3232.9	3238.9	3248.9	3248.9
35°	2814.5	2818.4	2816.5	2820.5	2828.5	2838.6	2852.6	2866.7	2874.8	2874.8	2868.8
37.5°	2456.3	2432.2	2406.1	2386.0	2379.9	2375.8	2384.0	2389.9	2398.0	2402.0	2392.0
40°	2084.2	2029.9	1971.5	1919.2	1883.0	1866.9	1860.9	1864.9	1864.9	1878.9	1878.9
42.5°	1764.3	1679.8	1593.3	1514.8	1462.5	1422.3	1404.2	1404.2	1406.2	1416.3	1422.3
45°	1498.8	1392.1	1291.5	1205.1	1132.6	1080.3	1056.2	1050.1	1048.1	1052.1	1066.2
47.5°	1295.6	1184.9	1080.3	973.7	897.3	844.9	822.8	814.7	806.7	814.7	816.8
50°	1136.7	1022.0	911.4	804.7	724.2	677.9	649.8	637.7	635.7	635.7	639.8
52.5°	991.8	885.2	774.6	665.9	581.4	537.2	511.0	504.9	496.9	504.9	504.9
55°	855.0	748.4	639.8	537.2	466.7	420.5	396.3	388.3	384.2	390.3	390.3
57.5°	706.2	615.6	515.0	422.5	352.1	319.9	301.7	291.7	289.7	293.7	289.7
60°	579.4	503.0	416.4	332.0	277.6	243.4	229.4	225.3	221.3	225.3	225.3
62.5°	458.7	394.3	323.9	259.5	213.2	189.1	173.0	173.0	171.0	171.0	173.0
65°	340.0	289.7	239.4	185.1	148.9	130.7	118.7	118.7	116.7	118.7	116.7
67.5°	247.4	213.2	173.0	134.8	106.7	96.6	88.5	82.5	86.5	82.5	80.5
70°	181.1	152.9	124.7	102.6	82.5	72.5	66.4	64.3	60.4	60.4	60.4
72.5°	120.7	102.6	84.5	66.4	54.3	44.2	42.2	38.3	34.2	36.2	40.2
75°	80.5	68.4	60.4	48.3	36.2	36.2	24.2	24.2	20.1	24.2	18.1
77.5°	56.3	46.3	36.2	30.1	24.2	22.1	16.1	16.1	14.1	14.1	14.1
80°	40.2	34.2	26.2	22.1	16.1	16.1	14.1	12.1	10.0	10.0	12.1
82.5°	24.2	18.1	18.1	16.1	10.0	8.0	6.0	8.0	4.1	4.1	4.1
85°	14.1	12.1	10.0	6.0	4.1	4.1	2.0	0.0	2.0	2.0	0.0
87.5°	8.0	4.1	4.1	2.0	0.0	2.0	2.0	0.0	0.0	0.0	4.1
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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CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1
2.5°	4144.2	4142.2	4146.2	4146.2	4158.3	4156.2	4162.3	4162.3	4158.3	4160.3	4168.3
5°	4158.3	4164.4	4176.4	4186.5	4204.5	4212.6	4222.7	4232.8	4234.7	4240.8	4246.8
7.5°	4158.3	4178.4	4192.5	4210.6	4234.7	4248.8	4270.9	4289.1	4297.1	4307.1	4319.2
10°	4150.2	4170.3	4196.5	4216.6	4246.8	4268.9	4291.1	4319.2	4331.3	4347.4	4363.5
12.5°	4134.1	4156.2	4184.4	4210.6	4244.8	4264.9	4293.0	4319.2	4337.3	4359.4	4377.6
15°	4110.0	4136.1	4162.3	4188.5	4224.6	4248.8	4275.0	4305.1	4323.3	4347.4	4363.5
17.5°	4071.8	4099.9	4124.1	4148.2	4182.4	4210.6	4234.7	4262.9	4281.0	4301.2	4323.3
20°	4025.5	4051.7	4077.8	4097.9	4132.1	4156.2	4182.4	4208.6	4222.7	4226.7	4260.9
22.5°	3967.2	3985.3	4005.4	4037.6	4057.7	4079.8	4104.0	4128.1	4142.2	4164.4	4176.4
25°	3870.6	3888.7	3910.8	3924.9	3949.1	3967.2	3991.3	4017.5	4025.5	4041.6	4053.6
27.5°	3735.8	3745.9	3756.0	3768.0	3782.0	3792.1	3806.2	3818.3	3826.3	3834.4	3842.4
30°	3522.5	3522.5	3522.5	3514.5	3520.5	3526.6	3528.6	3526.6	3526.6	3524.6	3524.6
32.5°	3240.9	3224.9	3206.7	3190.7	3184.6	3176.6	3172.5	3166.5	3156.5	3150.4	3152.4
35°	2860.7	2824.5	2802.4	2782.3	2766.2	2754.1	2748.1	2742.0	2740.0	2732.0	2723.9
37.5°	2386.0	2359.8	2343.7	2331.6	2317.6	2305.5	2307.5	2309.5	2315.5	2311.5	2313.5
40°	1883.0	1876.9	1883.0	1868.9	1864.9	1868.9	1878.9	1893.1	1901.1	1909.2	1923.2
42.5°	1432.4	1442.4	1456.5	1456.5	1462.5	1470.6	1482.6	1504.8	1516.8	1530.9	1547.1
45°	1078.3	1090.4	1108.5	1114.5	1118.5	1128.6	1142.7	1160.8	1168.8	1180.9	1195.0
47.5°	830.9	838.9	848.9	859.0	869.0	873.1	887.2	887.2	897.3	905.3	909.3
50°	647.8	655.8	663.8	669.9	674.0	680.0	684.0	690.0	692.0	696.1	698.0
52.5°	506.9	517.0	517.0	521.0	527.1	533.1	531.1	533.1	535.1	535.1	541.1
55°	396.3	396.3	402.4	402.4	406.4	404.3	406.4	406.4	406.4	406.4	408.4
57.5°	295.7	297.8	303.8	299.8	297.8	301.7	297.8	301.7	299.8	303.8	297.8
60°	227.3	227.3	229.4	229.4	231.4	231.4	231.4	229.4	229.4	227.3	227.3
62.5°	171.0	173.0	175.1	173.0	173.0	173.0	171.0	171.0	169.0	166.9	166.9
65°	114.7	112.7	116.7	112.7	114.7	114.7	112.7	114.7	108.6	110.6	108.6
67.5°	82.5	80.5	78.5	80.5	78.5	76.4	76.4	78.5	80.5	74.4	74.4
70°	54.3	56.3	54.3	56.3	58.4	58.4	56.3	54.3	56.3	52.3	54.3
72.5°	34.2	34.2	34.2	34.2	34.2	36.2	36.2	36.2	32.2	32.2	30.1
75°	16.1	22.1	18.1	16.1	22.1	22.1	20.1	20.1	18.1	18.1	18.1
77.5°	16.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	10.0	12.1	10.0
80°	8.0	8.0	8.0	6.0	8.0	8.0	10.0	8.0	8.0	6.0	10.0
82.5°	4.1	4.1	4.1	0.0	2.0	4.1	4.1	2.0	4.1	4.1	2.0
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: P248970

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1
2.5°	4166.3	4164.4	4166.3	4168.3	4166.3	4164.4	4166.3	4168.3	4160.3	4158.3	4162.3
5°	4254.9	4254.9	4258.8	4260.9	4258.8	4254.9	4254.9	4246.8	4240.8	4234.7	4232.8
7.5°	4331.3	4335.4	4339.3	4341.3	4339.3	4335.4	4331.3	4319.2	4307.1	4297.1	4289.1
10°	4377.6	4383.6	4391.7	4395.6	4391.7	4383.6	4377.6	4363.5	4347.4	4331.3	4319.2
12.5°	4397.7	4403.7	4413.8	4411.8	4413.8	4403.7	4397.7	4377.6	4359.4	4337.3	4319.2
15°	4383.6	4391.7	4401.7	4405.7	4401.7	4391.7	4383.6	4363.5	4347.4	4323.3	4305.1
17.5°	4339.3	4351.4	4357.5	4363.5	4357.5	4351.4	4339.3	4323.3	4301.2	4281.0	4262.9
20°	4279.0	4287.1	4295.1	4297.1	4295.1	4287.1	4279.0	4260.9	4226.7	4222.7	4208.6
22.5°	4192.5	4198.6	4216.6	4210.6	4216.6	4198.6	4192.5	4176.4	4164.4	4142.2	4128.1
25°	4067.7	4073.8	4075.8	4077.8	4075.8	4073.8	4067.7	4053.6	4041.6	4025.5	4017.5
27.5°	3852.5	3852.5	3856.5	3858.6	3856.5	3852.5	3852.5	3842.4	3834.4	3826.3	3818.3
30°	3526.6	3526.6	3526.6	3536.7	3526.6	3526.6	3526.6	3524.6	3524.6	3526.6	3526.6
32.5°	3150.4	3146.4	3142.4	3146.4	3142.4	3146.4	3150.4	3152.4	3150.4	3156.5	3166.5
35°	2723.9	2721.9	2727.9	2719.9	2727.9	2721.9	2723.9	2723.9	2732.0	2740.0	2742.0
37.5°	2315.5	2311.5	2319.5	2311.5	2319.5	2311.5	2315.5	2313.5	2311.5	2315.5	2309.5
40°	1927.3	1931.3	1931.3	1947.4	1931.3	1931.3	1927.3	1923.2	1909.2	1901.1	1893.1
42.5°	1555.1	1567.2	1563.1	1575.2	1563.1	1567.2	1555.1	1547.1	1530.9	1516.8	1504.8
45°	1203.0	1211.1	1211.1	1215.1	1211.1	1211.1	1203.0	1195.0	1180.9	1168.8	1160.8
47.5°	923.4	923.4	923.4	925.4	923.4	923.4	923.4	909.3	905.3	897.3	887.2
50°	702.1	704.1	706.2	708.2	706.2	704.1	702.1	698.0	696.1	692.0	690.0
52.5°	539.1	541.1	537.2	541.1	537.2	541.1	539.1	541.1	535.1	535.1	533.1
55°	408.4	406.4	408.4	410.4	408.4	406.4	408.4	408.4	406.4	406.4	406.4
57.5°	299.8	295.7	295.7	295.7	295.7	295.7	299.8	297.8	303.8	299.8	301.7
60°	223.3	225.3	225.3	227.3	225.3	225.3	223.3	227.3	227.3	229.4	229.4
62.5°	164.9	171.0	166.9	171.0	166.9	171.0	164.9	166.9	166.9	169.0	171.0
65°	106.7	106.7	106.7	108.6	106.7	106.7	106.7	108.6	110.6	108.6	114.7
67.5°	72.5	74.4	78.5	76.4	78.5	74.4	72.5	74.4	74.4	80.5	78.5
70°	58.4	52.3	52.3	58.4	52.3	52.3	58.4	54.3	52.3	56.3	54.3
72.5°	34.2	30.1	34.2	34.2	34.2	30.1	34.2	30.1	32.2	32.2	36.2
75°	18.1	16.1	14.1	20.1	14.1	16.1	18.1	18.1	18.1	18.1	20.1
77.5°	12.1	10.0	14.1	14.1	14.1	10.0	12.1	10.0	12.1	10.0	12.1
80°	6.0	8.0	6.0	10.0	6.0	8.0	6.0	10.0	6.0	8.0	8.0
82.5°	2.0	4.1	4.1	4.1	4.1	4.1	2.0	2.0	4.1	4.1	2.0
85°	0.0	4.1	2.0	2.0	2.0	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	0.0	2.0	0.0	0.0	2.0	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: P248970

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1
2.5°	4162.3	4156.2	4158.3	4146.2	4146.2	4142.2	4144.2	4134.1	4130.2	4126.1	4132.1
5°	4222.7	4212.6	4204.5	4186.5	4176.4	4164.4	4158.3	4142.2	4128.1	4116.0	4114.0
7.5°	4270.9	4248.8	4234.7	4210.6	4192.5	4178.4	4158.3	4136.1	4118.1	4101.9	4089.9
10°	4291.1	4268.9	4246.8	4216.6	4196.5	4170.3	4150.2	4122.0	4097.9	4075.8	4061.7
12.5°	4293.0	4264.9	4244.8	4210.6	4184.4	4156.2	4134.1	4101.9	4073.8	4051.7	4029.6
15°	4275.0	4248.8	4224.6	4188.5	4162.3	4136.1	4110.0	4075.8	4049.7	4023.5	4007.4
17.5°	4234.7	4210.6	4182.4	4148.2	4124.1	4099.9	4071.8	4043.6	4013.4	3985.3	3965.1
20°	4182.4	4156.2	4132.1	4097.9	4077.8	4051.7	4025.5	3995.4	3971.2	3943.0	3920.9
22.5°	4104.0	4079.8	4057.7	4037.6	4005.4	3985.3	3967.2	3933.0	3908.8	3882.7	3858.6
25°	3991.3	3967.2	3949.1	3924.9	3910.8	3888.7	3870.6	3840.4	3818.3	3794.1	3774.0
27.5°	3806.2	3792.1	3782.0	3768.0	3756.0	3745.9	3735.8	3711.7	3695.6	3673.5	3653.4
30°	3528.6	3526.6	3520.5	3514.5	3522.5	3522.5	3522.5	3518.6	3504.5	3488.3	3474.3
32.5°	3172.5	3176.6	3184.6	3190.7	3206.7	3224.9	3240.9	3248.9	3248.9	3238.9	3232.9
35°	2748.1	2754.1	2766.2	2782.3	2802.4	2824.5	2860.7	2868.8	2874.8	2874.8	2866.7
37.5°	2307.5	2305.5	2317.6	2331.6	2343.7	2359.8	2386.0	2392.0	2402.0	2398.0	2389.9
40°	1878.9	1868.9	1864.9	1868.9	1883.0	1876.9	1883.0	1878.9	1878.9	1864.9	1864.9
42.5°	1482.6	1470.6	1462.5	1456.5	1456.5	1442.4	1432.4	1422.3	1416.3	1406.2	1404.2
45°	1142.7	1128.6	1118.5	1114.5	1108.5	1090.4	1078.3	1066.2	1052.1	1048.1	1050.1
47.5°	887.2	873.1	869.0	859.0	848.9	838.9	830.9	816.8	814.7	806.7	814.7
50°	684.0	680.0	674.0	669.9	663.8	655.8	647.8	639.8	635.7	635.7	637.7
52.5°	531.1	533.1	527.1	521.0	517.0	517.0	506.9	504.9	504.9	496.9	504.9
55°	406.4	404.3	406.4	402.4	402.4	396.3	396.3	390.3	390.3	384.2	388.3
57.5°	297.8	301.7	297.8	299.8	303.8	297.8	295.7	289.7	293.7	289.7	291.7
60°	231.4	231.4	231.4	229.4	229.4	227.3	227.3	225.3	225.3	221.3	225.3
62.5°	171.0	173.0	173.0	173.0	175.1	173.0	171.0	173.0	171.0	171.0	173.0
65°	112.7	114.7	114.7	112.7	116.7	112.7	114.7	116.7	118.7	116.7	118.7
67.5°	76.4	76.4	78.5	80.5	78.5	80.5	82.5	80.5	82.5	86.5	82.5
70°	56.3	58.4	58.4	56.3	54.3	56.3	54.3	60.4	60.4	60.4	64.3
72.5°	36.2	36.2	34.2	34.2	34.2	34.2	34.2	40.2	36.2	34.2	38.3
75°	20.1	22.1	22.1	16.1	18.1	22.1	16.1	18.1	24.2	20.1	24.2
77.5°	12.1	12.1	12.1	12.1	12.1	12.1	16.1	14.1	14.1	14.1	16.1
80°	10.0	8.0	8.0	6.0	8.0	8.0	8.0	12.1	10.0	10.0	12.1
82.5°	4.1	4.1	2.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	8.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	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: P248970

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1
2.5°	4116.0	4116.0	4114.0	4110.0	4101.9	4101.9	4099.9	4093.9	4089.9	4087.8	4087.8
5°	4095.9	4087.8	4079.8	4057.7	4057.7	4053.6	4041.6	4033.5	4029.6	4019.4	4015.5
7.5°	4077.8	4053.6	4039.6	4025.5	4007.4	3999.3	3985.3	3979.2	3965.1	3955.1	3949.1
10°	4033.5	4017.5	3999.3	3977.2	3963.1	3947.1	3930.9	3918.9	3900.8	3890.7	3882.7
12.5°	4003.4	3979.2	3963.1	3939.0	3914.9	3900.8	3878.7	3864.6	3846.5	3826.3	3814.3
15°	3975.2	3949.1	3927.0	3900.8	3874.6	3858.6	3832.4	3816.3	3790.2	3770.0	3756.0
17.5°	3933.0	3910.8	3886.7	3854.5	3830.4	3810.3	3782.0	3762.0	3737.8	3711.7	3697.6
20°	3888.7	3862.5	3838.4	3806.2	3782.0	3758.0	3729.8	3707.7	3679.5	3655.4	3639.3
22.5°	3830.4	3800.2	3780.1	3747.8	3719.7	3693.6	3667.4	3641.3	3615.1	3595.0	3576.9
25°	3745.9	3713.7	3691.5	3665.4	3639.3	3619.2	3587.0	3570.9	3544.7	3526.6	3508.5
27.5°	3625.1	3601.0	3580.9	3554.7	3532.6	3516.6	3492.4	3476.3	3454.1	3438.1	3424.0
30°	3448.2	3428.1	3409.9	3383.8	3367.7	3353.6	3331.4	3317.3	3301.3	3283.1	3279.2
32.5°	3210.8	3194.6	3176.6	3158.4	3146.4	3138.3	3120.2	3112.2	3096.1	3086.0	3076.0
35°	2852.6	2838.6	2828.5	2820.5	2816.5	2818.4	2814.5	2822.5	2826.5	2824.5	2826.5
37.5°	2384.0	2375.8	2379.9	2386.0	2406.1	2432.2	2456.3	2492.5	2516.7	2540.9	2563.0
40°	1860.9	1866.9	1883.0	1919.2	1971.5	2029.9	2084.2	2152.6	2221.0	2269.3	2313.5
42.5°	1404.2	1422.3	1462.5	1514.8	1593.3	1679.8	1764.3	1864.9	1947.4	2027.8	2084.2
45°	1056.2	1080.3	1132.6	1205.1	1291.5	1392.1	1498.8	1611.4	1710.0	1792.5	1854.8
47.5°	822.8	844.9	897.3	973.7	1080.3	1184.9	1295.6	1412.2	1514.8	1595.3	1649.6
50°	649.8	677.9	724.2	804.7	911.4	1022.0	1136.7	1251.3	1347.9	1416.3	1464.6
52.5°	511.0	537.2	581.4	665.9	774.6	885.2	991.8	1104.5	1188.9	1255.3	1287.5
55°	396.3	420.5	466.7	537.2	639.8	748.4	855.0	951.6	1030.0	1078.3	1108.5
57.5°	301.7	319.9	352.1	422.5	515.0	615.6	706.2	802.7	863.1	897.3	917.3
60°	229.4	243.4	277.6	332.0	416.4	503.0	579.4	651.8	700.1	728.3	748.4
62.5°	173.0	189.1	213.2	259.5	323.9	394.3	458.7	513.0	553.2	571.4	585.4
65°	118.7	130.7	148.9	185.1	239.4	289.7	340.0	380.2	406.4	426.5	434.6
67.5°	88.5	96.6	106.7	134.8	173.0	213.2	247.4	275.6	303.8	311.8	325.9
70°	66.4	72.5	82.5	102.6	124.7	152.9	181.1	197.2	217.3	231.4	235.4
72.5°	42.2	44.2	54.3	66.4	84.5	102.6	120.7	134.8	146.9	154.9	158.9
75°	24.2	36.2	36.2	48.3	60.4	68.4	80.5	90.5	96.6	102.6	102.6
77.5°	16.1	22.1	24.2	30.1	36.2	46.3	56.3	62.4	68.4	70.4	70.4
80°	14.1	16.1	16.1	22.1	26.2	34.2	40.2	42.2	46.3	48.3	52.3
82.5°	6.0	8.0	10.0	16.1	18.1	18.1	24.2	26.2	30.1	32.2	32.2
85°	2.0	4.1	4.1	6.0	10.0	12.1	14.1	16.1	18.1	18.1	20.1
87.5°	2.0	2.0	0.0	2.0	4.1	4.1	8.0	8.0	8.0	12.1	12.1
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: P248970

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1	4120.1
2.5°	4083.9	4085.9	4077.8	4075.8	4071.8	4073.8	4077.8
5°	4009.4	4011.4	4003.4	3995.4	3995.4	3993.3	3995.4
7.5°	3939.0	3941.0	3928.9	3924.9	3916.9	3918.9	3918.9
10°	3868.6	3868.6	3850.5	3848.5	3842.4	3840.4	3840.4
12.5°	3800.2	3794.1	3780.1	3772.0	3776.1	3764.0	3764.0
15°	3739.8	3729.8	3711.7	3705.6	3695.6	3691.5	3691.5
17.5°	3677.5	3669.4	3653.4	3641.3	3629.2	3627.2	3629.2
20°	3617.1	3609.1	3588.9	3580.9	3570.9	3570.9	3566.8
22.5°	3556.7	3548.7	3530.7	3524.6	3510.5	3510.5	3512.5
25°	3494.4	3488.3	3468.2	3464.2	3462.3	3454.1	3458.2
27.5°	3409.9	3405.9	3389.8	3383.8	3375.7	3373.7	3377.7
30°	3255.0	3248.9	3236.9	3230.9	3216.8	3218.8	3222.8
32.5°	3061.9	3053.9	3037.7	3031.7	3019.7	3015.6	3017.6
35°	2820.5	2814.5	2800.4	2800.4	2788.3	2784.2	2788.3
37.5°	2575.1	2581.0	2575.1	2581.0	2575.1	2573.0	2575.1
40°	2343.7	2365.8	2369.8	2392.0	2384.0	2396.0	2394.0
42.5°	2122.4	2158.6	2172.7	2190.8	2186.8	2194.8	2200.9
45°	1899.1	1929.3	1943.4	1955.4	1957.4	1961.5	1963.5
47.5°	1687.8	1712.0	1714.0	1728.1	1726.1	1726.1	1732.1
50°	1490.7	1506.8	1510.8	1520.9	1512.9	1508.8	1510.8
52.5°	1307.7	1323.7	1319.7	1323.7	1313.7	1309.6	1311.6
55°	1120.5	1128.6	1128.6	1128.6	1116.5	1116.5	1116.5
57.5°	929.4	931.5	927.4	929.4	927.4	915.3	913.3
60°	754.4	754.4	752.4	754.4	748.4	742.3	742.3
62.5°	589.4	593.5	601.5	593.5	589.4	593.5	587.4
65°	440.6	448.6	446.6	450.6	448.6	448.6	444.6
67.5°	332.0	334.0	335.9	338.0	338.0	338.0	338.0
70°	243.4	249.5	247.4	247.4	247.4	247.4	259.5
72.5°	163.0	171.0	169.0	173.0	173.0	177.0	173.0
75°	110.6	118.7	114.7	120.7	118.7	114.7	124.7
77.5°	74.4	78.5	80.5	82.5	80.5	78.5	80.5
80°	52.3	56.3	54.3	56.3	56.3	56.3	58.4
82.5°	32.2	38.3	36.2	38.3	36.2	38.3	38.3
85°	22.1	24.2	20.1	24.2	22.1	22.1	26.2
87.5°	14.1	12.1	12.1	14.1	12.1	14.1	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)