

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: P248552

Luminaire Tested: **LD8B70D010 ER8B70830 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248552  
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 ER8B70830 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7240.0 lumens  
Efficiency: N/A  
Efficacy: 95.4 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

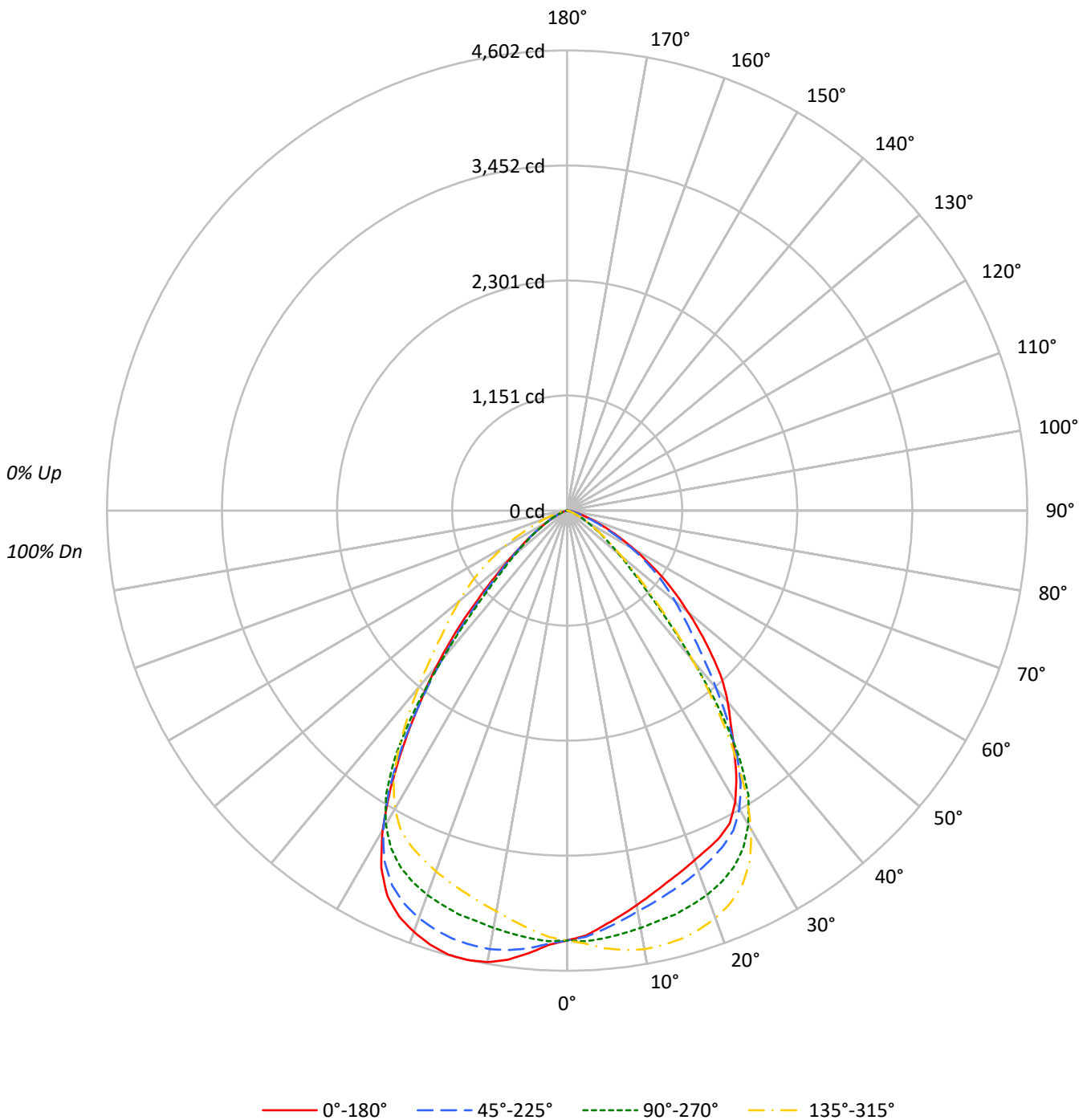
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	132541	132541	132541	132541
5°	129020	132852	137594	132852
10°	125448	132678	143584	132678
15°	122943	133465	146730	133465
20°	122106	134228	147105	134228
25°	122749	133960	144742	133960
30°	119713	129053	131375	129053
35°	109499	112579	106815	112579
40°	100534	78314	81780	78314
45°	89329	47774	55279	47774
50°	75610	31911	35442	31911
55°	62621	21779	23015	21779
60°	47759	14499	14623	14499
65°	33841	9033	8267	9033
70°	24406	6050	5491	6050
75°	15500	3002	2502	3002
80°	10815	2237	1865	2237
85°	9659	0	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.1	5.7
10°-20°	1184.7	16.4
20°-30°	1793.9	24.8
30°-40°	1797.9	24.8
40°-50°	1129.0	15.6
50°-60°	601.6	8.3
60°-70°	247.4	3.4
70°-80°	65.4	0.9
80°-90°	11.1	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°	3387.7	46.8
0°-40°	5185.6	71.6
0°-60°	6916.2	95.5
0°-90°	7240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7240.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4298	4298	4298	4298	4298	
5°	4168	4292	4445	4292	4168	393
15°	3851	4181	4596	4181	3851	1089
25°	3608	3937	4254	3937	3608	1655
35°	2909	2991	2838	2991	2909	1822
45°	2048	1096	1268	1096	2048	1575
55°	1165	405	428	405	1165	1038
65°	464	124	113	124	464	481
75°	130	25	21	25	130	147
85°	27	0	2	0	27	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°	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2
2.5°	4254.1	4249.9	4247.8	4252.0	4254.1	4262.5	4260.4	4264.6	4264.6	4266.7	4270.9
5°	4168.1	4165.9	4168.1	4168.1	4176.4	4184.8	4182.7	4189.1	4193.2	4203.7	4207.9
7.5°	4088.3	4088.3	4086.2	4094.5	4098.8	4111.4	4109.2	4119.8	4126.1	4136.5	4151.2
10°	4006.4	4006.4	4008.5	4014.8	4017.0	4035.8	4035.8	4050.5	4058.9	4069.4	4088.3
12.5°	3926.7	3926.7	3939.3	3935.1	3943.5	3958.1	3964.5	3979.1	3991.8	4012.7	4031.7
15°	3851.1	3851.1	3855.4	3865.8	3872.1	3891.0	3901.5	3918.3	3933.0	3954.0	3981.3
17.5°	3786.1	3784.0	3786.1	3798.7	3811.3	3828.1	3836.4	3857.4	3872.1	3899.4	3924.6
20°	3721.0	3725.3	3725.3	3735.7	3744.1	3765.1	3773.5	3796.6	3813.4	3838.5	3868.0
22.5°	3664.4	3662.3	3662.3	3677.0	3683.3	3702.1	3710.5	3731.5	3750.4	3771.4	3798.7
25°	3607.7	3603.5	3611.9	3614.0	3618.1	3639.1	3645.4	3660.1	3679.0	3698.0	3725.3
27.5°	3523.7	3519.6	3521.6	3530.0	3536.3	3553.1	3557.3	3572.0	3586.7	3603.5	3626.6
30°	3362.1	3357.9	3355.9	3370.6	3376.9	3389.4	3395.7	3420.9	3425.1	3444.0	3460.7
32.5°	3148.0	3146.0	3150.2	3162.7	3169.0	3185.9	3194.2	3208.9	3219.4	3229.9	3246.7
35°	2908.8	2904.6	2908.8	2921.4	2921.4	2936.1	2942.4	2948.7	2946.6	2948.7	2944.5
37.5°	2686.4	2684.2	2686.4	2692.6	2686.4	2692.6	2686.4	2673.8	2650.7	2625.5	2600.3
40°	2497.5	2499.5	2487.0	2495.4	2472.2	2468.1	2445.0	2413.5	2367.4	2317.0	2245.7
42.5°	2296.0	2289.7	2281.3	2285.5	2266.6	2251.9	2214.1	2174.3	2115.5	2031.6	1945.5
45°	2048.4	2046.3	2042.0	2040.0	2027.4	2012.7	1981.1	1935.0	1870.0	1783.9	1681.0
47.5°	1807.0	1800.7	1800.7	1802.8	1788.1	1786.0	1760.8	1721.0	1664.3	1580.3	1473.3
50°	1576.1	1574.0	1578.2	1586.6	1576.1	1571.9	1555.2	1527.9	1477.5	1406.2	1305.4
52.5°	1368.3	1366.3	1370.5	1380.9	1376.7	1380.9	1364.2	1343.2	1309.6	1240.3	1152.2
55°	1164.8	1164.8	1164.8	1177.3	1177.3	1177.3	1169.0	1156.4	1124.9	1074.5	992.7
57.5°	952.8	954.9	967.5	969.6	967.5	971.7	969.6	957.0	936.1	900.4	837.4
60°	774.4	774.4	780.7	787.1	784.9	787.1	787.1	780.7	759.8	730.4	680.0
62.5°	612.8	619.1	614.9	619.1	627.5	619.1	614.9	610.7	596.1	577.1	535.2
65°	463.8	468.0	468.0	470.1	465.9	468.0	459.7	453.3	445.0	424.0	396.7
67.5°	352.6	352.6	352.6	352.6	350.5	348.4	346.3	340.0	325.3	316.9	287.5
70°	270.7	258.1	258.1	258.1	258.1	260.3	254.0	245.6	241.4	226.7	205.7
72.5°	180.5	184.7	180.5	180.5	176.3	178.4	170.0	165.8	161.6	153.2	140.6
75°	130.1	119.6	123.8	125.9	119.6	123.8	115.4	107.0	107.0	100.7	94.4
77.5°	84.0	81.9	84.0	86.0	84.0	81.9	77.7	73.4	73.4	71.4	65.0
80°	60.9	58.7	58.7	58.7	56.7	58.7	54.6	54.6	50.4	48.3	44.1
82.5°	39.9	39.9	37.8	39.9	37.8	39.9	33.6	33.6	33.6	31.4	27.3
85°	27.3	23.1	23.1	25.2	21.0	25.2	23.1	21.0	18.9	18.9	16.8
87.5°	12.6	14.7	12.6	14.7	12.6	12.6	14.7	12.6	12.6	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°	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2
2.5°	4277.2	4279.2	4279.2	4287.7	4291.9	4293.9	4293.9	4310.8	4304.5	4308.7	4312.8
5°	4216.4	4228.9	4233.1	4233.1	4256.2	4264.6	4272.9	4291.9	4293.9	4306.5	4321.2
7.5°	4157.5	4172.2	4180.7	4199.5	4214.2	4228.9	4254.1	4266.7	4279.2	4296.1	4314.9
10°	4100.9	4117.7	4134.5	4149.1	4172.2	4191.1	4207.9	4237.3	4252.0	4275.1	4300.2
12.5°	4046.3	4069.4	4084.1	4109.2	4134.5	4151.2	4176.4	4203.7	4226.8	4249.9	4279.2
15°	3998.1	4025.4	4042.1	4069.4	4096.7	4119.8	4147.1	4180.7	4197.4	4224.7	4252.0
17.5°	3945.5	3975.0	3996.0	4021.1	4054.7	4079.9	4103.0	4136.5	4157.5	4186.9	4218.4
20°	3891.0	3920.4	3945.5	3970.8	4004.4	4029.5	4056.8	4090.4	4113.5	4142.8	4168.1
22.5°	3826.0	3853.3	3880.5	3909.9	3943.5	3964.5	3996.0	4025.4	4050.5	4077.8	4103.0
25°	3742.0	3775.6	3796.6	3823.8	3851.1	3874.2	3907.8	3937.2	3958.1	3983.4	4006.4
27.5°	3643.4	3668.6	3685.3	3708.4	3735.7	3756.7	3781.8	3811.3	3832.3	3855.4	3872.1
30°	3475.4	3498.6	3513.3	3530.0	3557.3	3576.2	3597.2	3624.4	3639.1	3656.0	3670.7
32.5°	3255.1	3274.0	3282.4	3295.0	3313.9	3332.7	3349.6	3372.6	3378.9	3389.4	3389.4
35°	2936.1	2940.3	2938.2	2942.4	2950.8	2961.3	2976.0	2990.6	2999.0	2999.0	2992.8
37.5°	2562.5	2537.4	2510.1	2489.1	2482.8	2478.6	2487.0	2493.2	2501.7	2505.8	2495.4
40°	2174.3	2117.6	2056.7	2002.1	1964.4	1947.6	1941.3	1945.5	1945.5	1960.2	1960.2
42.5°	1840.6	1752.4	1662.2	1580.3	1525.7	1483.8	1464.9	1464.9	1467.0	1477.5	1483.8
45°	1563.6	1452.3	1347.3	1257.2	1181.6	1127.0	1101.8	1095.5	1093.5	1097.6	1112.3
47.5°	1351.6	1236.2	1127.0	1015.8	936.1	881.5	858.4	849.9	841.6	849.9	852.1
50°	1185.8	1066.2	950.8	839.5	755.5	707.2	677.9	665.2	663.2	663.2	667.4
52.5°	1034.6	923.5	808.0	694.7	606.5	560.4	533.1	526.8	518.4	526.8	526.8
55°	891.9	780.7	667.4	560.4	486.9	438.7	413.4	405.1	400.8	407.1	407.1
57.5°	736.7	642.2	537.3	440.7	367.3	333.7	314.8	304.3	302.2	306.4	302.2
60°	604.4	524.7	434.4	346.3	289.6	254.0	239.3	235.1	230.8	235.1	235.1
62.5°	478.5	411.4	337.9	270.7	222.4	197.3	180.5	180.5	178.4	178.4	180.5
65°	354.7	302.2	249.7	193.1	155.3	136.4	123.8	123.8	121.7	123.8	121.7
67.5°	258.1	222.4	180.5	140.6	111.3	100.7	92.3	86.0	90.3	86.0	84.0
70°	188.9	159.5	130.1	107.0	86.0	75.6	69.3	67.1	63.0	63.0	63.0
72.5°	125.9	107.0	88.1	69.3	56.7	46.1	44.1	39.9	35.7	37.8	42.0
75°	84.0	71.4	63.0	50.4	37.8	37.8	25.2	25.2	21.0	25.2	18.9
77.5°	58.7	48.3	37.8	31.4	25.2	23.1	16.8	16.8	14.7	14.7	14.7
80°	42.0	35.7	27.3	23.1	16.8	16.8	14.7	12.6	10.5	10.5	12.6
82.5°	25.2	18.9	18.9	16.8	10.5	8.4	6.3	8.4	4.2	4.2	4.2
85°	14.7	12.6	10.5	6.3	4.2	4.2	2.1	0.0	2.1	2.1	0.0
87.5°	8.4	4.2	4.2	2.1	0.0	2.1	2.1	0.0	0.0	0.0	4.2
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°	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2
2.5°	4323.4	4321.2	4325.5	4325.5	4338.1	4335.9	4342.2	4342.2	4338.1	4340.1	4348.5
5°	4338.1	4344.4	4356.9	4367.4	4386.3	4394.7	4405.2	4415.7	4417.8	4424.1	4430.4
7.5°	4338.1	4359.1	4373.7	4392.6	4417.8	4432.5	4455.6	4474.5	4482.8	4493.3	4505.9
10°	4329.6	4350.6	4377.9	4398.9	4430.4	4453.5	4476.5	4505.9	4518.5	4535.3	4552.1
12.5°	4312.8	4335.9	4365.3	4392.6	4428.3	4449.2	4478.6	4505.9	4524.8	4547.9	4566.8
15°	4287.7	4314.9	4342.2	4369.5	4407.3	4432.5	4459.8	4491.2	4510.1	4535.3	4552.1
17.5°	4247.8	4277.2	4302.4	4327.5	4363.2	4392.6	4417.8	4447.2	4466.1	4487.1	4510.1
20°	4199.5	4226.8	4254.1	4275.1	4310.8	4335.9	4363.2	4390.5	4405.2	4409.4	4445.1
22.5°	4138.7	4157.5	4178.5	4212.1	4233.1	4256.2	4281.4	4306.5	4321.2	4344.4	4356.9
25°	4037.9	4056.8	4079.9	4094.5	4119.8	4138.7	4163.8	4191.1	4199.5	4216.4	4228.9
27.5°	3897.3	3907.8	3918.3	3930.9	3945.5	3956.1	3970.8	3983.4	3991.8	4000.1	4008.5
30°	3674.8	3674.8	3674.8	3666.4	3672.7	3679.0	3681.1	3679.0	3679.0	3677.0	3677.0
32.5°	3381.0	3364.3	3345.3	3328.6	3322.3	3313.9	3309.7	3303.4	3292.9	3286.6	3288.7
35°	2984.3	2946.6	2923.5	2902.5	2885.8	2873.2	2866.9	2860.5	2858.5	2850.1	2841.6
37.5°	2489.1	2461.8	2445.0	2432.4	2417.7	2405.1	2407.2	2409.4	2415.6	2411.4	2413.5
40°	1964.4	1958.1	1964.4	1949.7	1945.5	1949.7	1960.2	1974.9	1983.3	1991.7	2006.4
42.5°	1494.3	1504.7	1519.5	1519.5	1525.7	1534.2	1546.7	1569.9	1582.4	1597.1	1613.9
45°	1124.9	1137.5	1156.4	1162.7	1166.9	1177.3	1192.1	1210.9	1219.3	1231.9	1246.6
47.5°	866.8	875.2	885.6	896.2	906.6	910.8	925.5	925.5	936.1	944.4	948.6
50°	675.8	684.2	692.5	698.9	703.1	709.4	713.5	719.8	721.9	726.2	728.2
52.5°	528.8	539.4	539.4	543.5	549.8	556.1	554.1	556.1	558.2	558.2	564.5
55°	413.4	413.4	419.7	419.7	424.0	421.8	424.0	424.0	424.0	424.0	426.0
57.5°	308.5	310.6	316.9	312.7	310.6	314.8	310.6	314.8	312.7	316.9	310.6
60°	237.1	237.1	239.3	239.3	241.4	241.4	241.4	239.3	239.3	237.1	237.1
62.5°	178.4	180.5	182.6	180.5	180.5	180.5	178.4	178.4	176.3	174.2	174.2
65°	119.6	117.6	121.7	117.6	119.6	119.6	117.6	119.6	113.3	115.4	113.3
67.5°	86.0	84.0	81.9	84.0	81.9	79.7	79.7	81.9	84.0	77.7	77.7
70°	56.7	58.7	56.7	58.7	60.9	60.9	58.7	56.7	58.7	54.6	56.7
72.5°	35.7	35.7	35.7	35.7	35.7	37.8	37.8	37.8	33.6	33.6	31.4
75°	16.8	23.1	18.9	16.8	23.1	23.1	21.0	21.0	18.9	18.9	18.9
77.5°	16.8	12.6	12.6	12.6	12.6	12.6	12.6	12.6	10.5	12.6	10.5
80°	8.4	8.4	8.4	6.3	8.4	8.4	10.5	8.4	8.4	6.3	10.5
82.5°	4.2	4.2	4.2	0.0	2.1	4.2	4.2	2.1	4.2	4.2	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: P248552

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2
2.5°	4346.4	4344.4	4346.4	4348.5	4346.4	4344.4	4346.4	4348.5	4340.1	4338.1	4342.2
5°	4438.8	4438.8	4442.9	4445.1	4442.9	4438.8	4438.8	4430.4	4424.1	4417.8	4415.7
7.5°	4518.5	4522.8	4526.9	4529.0	4526.9	4522.8	4518.5	4505.9	4493.3	4482.8	4474.5
10°	4566.8	4573.1	4581.5	4585.6	4581.5	4573.1	4566.8	4552.1	4535.3	4518.5	4505.9
12.5°	4587.8	4594.1	4604.6	4602.5	4604.6	4594.1	4587.8	4566.8	4547.9	4524.8	4505.9
15°	4573.1	4581.5	4592.0	4596.2	4592.0	4581.5	4573.1	4552.1	4535.3	4510.1	4491.2
17.5°	4526.9	4539.5	4545.8	4552.1	4545.8	4539.5	4526.9	4510.1	4487.1	4466.1	4447.2
20°	4463.9	4472.4	4480.8	4482.8	4480.8	4472.4	4463.9	4445.1	4409.4	4405.2	4390.5
22.5°	4373.7	4380.1	4398.9	4392.6	4398.9	4380.1	4373.7	4356.9	4344.4	4321.2	4306.5
25°	4243.6	4249.9	4252.0	4254.1	4252.0	4249.9	4243.6	4228.9	4216.4	4199.5	4191.1
27.5°	4019.0	4019.0	4023.2	4025.4	4023.2	4019.0	4019.0	4008.5	4000.1	3991.8	3983.4
30°	3679.0	3679.0	3679.0	3689.6	3679.0	3679.0	3679.0	3677.0	3677.0	3679.0	3679.0
32.5°	3286.6	3282.4	3278.2	3282.4	3278.2	3282.4	3286.6	3288.7	3286.6	3292.9	3303.4
35°	2841.6	2839.6	2845.9	2837.5	2845.9	2839.6	2841.6	2841.6	2850.1	2858.5	2860.5
37.5°	2415.6	2411.4	2419.8	2411.4	2419.8	2411.4	2415.6	2413.5	2411.4	2415.6	2409.4
40°	2010.6	2014.8	2014.8	2031.6	2014.8	2014.8	2010.6	2006.4	1991.7	1983.3	1974.9
42.5°	1622.3	1634.9	1630.7	1643.3	1630.7	1634.9	1622.3	1613.9	1597.1	1582.4	1569.9
45°	1255.0	1263.5	1263.5	1267.6	1263.5	1263.5	1255.0	1246.6	1231.9	1219.3	1210.9
47.5°	963.3	963.3	963.3	965.4	963.3	963.3	963.3	948.6	944.4	936.1	925.5
50°	732.5	734.5	736.7	738.8	736.7	734.5	732.5	728.2	726.2	721.9	719.8
52.5°	562.5	564.5	560.4	564.5	560.4	564.5	562.5	564.5	558.2	558.2	556.1
55°	426.0	424.0	426.0	428.1	426.0	424.0	426.0	426.0	424.0	424.0	424.0
57.5°	312.7	308.5	308.5	308.5	308.5	308.5	312.7	310.6	316.9	312.7	314.8
60°	233.0	235.1	235.1	237.1	235.1	235.1	233.0	237.1	237.1	239.3	239.3
62.5°	172.1	178.4	174.2	178.4	174.2	178.4	172.1	174.2	174.2	176.3	178.4
65°	111.3	111.3	111.3	113.3	111.3	111.3	111.3	113.3	115.4	113.3	119.6
67.5°	75.6	77.7	81.9	79.7	81.9	77.7	75.6	77.7	77.7	84.0	81.9
70°	60.9	54.6	54.6	60.9	54.6	54.6	60.9	56.7	54.6	58.7	56.7
72.5°	35.7	31.4	35.7	35.7	35.7	31.4	35.7	31.4	33.6	33.6	37.8
75°	18.9	16.8	14.7	21.0	14.7	16.8	18.9	18.9	18.9	18.9	21.0
77.5°	12.6	10.5	14.7	14.7	14.7	10.5	12.6	10.5	12.6	10.5	12.6
80°	6.3	8.4	6.3	10.5	6.3	8.4	6.3	10.5	6.3	8.4	8.4
82.5°	2.1	4.2	4.2	4.2	4.2	4.2	2.1	2.1	4.2	4.2	2.1
85°	0.0	4.2	2.1	2.1	2.1	4.2	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: P248552

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2
2.5°	4342.2	4335.9	4338.1	4325.5	4325.5	4321.2	4323.4	4312.8	4308.7	4304.5	4310.8
5°	4405.2	4394.7	4386.3	4367.4	4356.9	4344.4	4338.1	4321.2	4306.5	4293.9	4291.9
7.5°	4455.6	4432.5	4417.8	4392.6	4373.7	4359.1	4338.1	4314.9	4296.1	4279.2	4266.7
10°	4476.5	4453.5	4430.4	4398.9	4377.9	4350.6	4329.6	4300.2	4275.1	4252.0	4237.3
12.5°	4478.6	4449.2	4428.3	4392.6	4365.3	4335.9	4312.8	4279.2	4249.9	4226.8	4203.7
15°	4459.8	4432.5	4407.3	4369.5	4342.2	4314.9	4287.7	4252.0	4224.7	4197.4	4180.7
17.5°	4417.8	4392.6	4363.2	4327.5	4302.4	4277.2	4247.8	4218.4	4186.9	4157.5	4136.5
20°	4363.2	4335.9	4310.8	4275.1	4254.1	4226.8	4199.5	4168.1	4142.8	4113.5	4090.4
22.5°	4281.4	4256.2	4233.1	4212.1	4178.5	4157.5	4138.7	4103.0	4077.8	4050.5	4025.4
25°	4163.8	4138.7	4119.8	4094.5	4079.9	4056.8	4037.9	4006.4	3983.4	3958.1	3937.2
27.5°	3970.8	3956.1	3945.5	3930.9	3918.3	3907.8	3897.3	3872.1	3855.4	3832.3	3811.3
30°	3681.1	3679.0	3672.7	3666.4	3674.8	3674.8	3674.8	3670.7	3656.0	3639.1	3624.4
32.5°	3309.7	3313.9	3322.3	3328.6	3345.3	3364.3	3381.0	3389.4	3389.4	3378.9	3372.6
35°	2866.9	2873.2	2885.8	2902.5	2923.5	2946.6	2984.3	2992.8	2999.0	2999.0	2990.6
37.5°	2407.2	2405.1	2417.7	2432.4	2445.0	2461.8	2489.1	2495.4	2505.8	2501.7	2493.2
40°	1960.2	1949.7	1945.5	1949.7	1964.4	1958.1	1964.4	1960.2	1960.2	1945.5	1945.5
42.5°	1546.7	1534.2	1525.7	1519.5	1519.5	1504.7	1494.3	1483.8	1477.5	1467.0	1464.9
45°	1192.1	1177.3	1166.9	1162.7	1156.4	1137.5	1124.9	1112.3	1097.6	1093.5	1095.5
47.5°	925.5	910.8	906.6	896.2	885.6	875.2	866.8	852.1	849.9	841.6	849.9
50°	713.5	709.4	703.1	698.9	692.5	684.2	675.8	667.4	663.2	663.2	665.2
52.5°	554.1	556.1	549.8	543.5	539.4	539.4	528.8	526.8	526.8	518.4	526.8
55°	424.0	421.8	424.0	419.7	419.7	413.4	413.4	407.1	407.1	400.8	405.1
57.5°	310.6	314.8	310.6	312.7	316.9	310.6	308.5	302.2	306.4	302.2	304.3
60°	241.4	241.4	241.4	239.3	239.3	237.1	237.1	235.1	235.1	230.8	235.1
62.5°	178.4	180.5	180.5	180.5	182.6	180.5	178.4	180.5	178.4	178.4	180.5
65°	117.6	119.6	119.6	117.6	121.7	117.6	119.6	121.7	123.8	121.7	123.8
67.5°	79.7	79.7	81.9	84.0	81.9	84.0	86.0	84.0	86.0	90.3	86.0
70°	58.7	60.9	60.9	58.7	56.7	58.7	56.7	63.0	63.0	63.0	67.1
72.5°	37.8	37.8	35.7	35.7	35.7	35.7	35.7	42.0	37.8	35.7	39.9
75°	21.0	23.1	23.1	16.8	18.9	23.1	16.8	18.9	25.2	21.0	25.2
77.5°	12.6	12.6	12.6	12.6	12.6	12.6	16.8	14.7	14.7	14.7	16.8
80°	10.5	8.4	8.4	6.3	8.4	8.4	8.4	12.6	10.5	10.5	12.6
82.5°	4.2	4.2	2.1	0.0	4.2	4.2	4.2	4.2	4.2	4.2	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	4.2	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: P248552

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2
2.5°	4293.9	4293.9	4291.9	4287.7	4279.2	4279.2	4277.2	4270.9	4266.7	4264.6	4264.6
5°	4272.9	4264.6	4256.2	4233.1	4233.1	4228.9	4216.4	4207.9	4203.7	4193.2	4189.1
7.5°	4254.1	4228.9	4214.2	4199.5	4180.7	4172.2	4157.5	4151.2	4136.5	4126.1	4119.8
10°	4207.9	4191.1	4172.2	4149.1	4134.5	4117.7	4100.9	4088.3	4069.4	4058.9	4050.5
12.5°	4176.4	4151.2	4134.5	4109.2	4084.1	4069.4	4046.3	4031.7	4012.7	3991.8	3979.1
15°	4147.1	4119.8	4096.7	4069.4	4042.1	4025.4	3998.1	3981.3	3954.0	3933.0	3918.3
17.5°	4103.0	4079.9	4054.7	4021.1	3996.0	3975.0	3945.5	3924.6	3899.4	3872.1	3857.4
20°	4056.8	4029.5	4004.4	3970.8	3945.5	3920.4	3891.0	3868.0	3838.5	3813.4	3796.6
22.5°	3996.0	3964.5	3943.5	3909.9	3880.5	3853.3	3826.0	3798.7	3771.4	3750.4	3731.5
25°	3907.8	3874.2	3851.1	3823.8	3796.6	3775.6	3742.0	3725.3	3698.0	3679.0	3660.1
27.5°	3781.8	3756.7	3735.7	3708.4	3685.3	3668.6	3643.4	3626.6	3603.5	3586.7	3572.0
30°	3597.2	3576.2	3557.3	3530.0	3513.3	3498.6	3475.4	3460.7	3444.0	3425.1	3420.9
32.5°	3349.6	3332.7	3313.9	3295.0	3282.4	3274.0	3255.1	3246.7	3229.9	3219.4	3208.9
35°	2976.0	2961.3	2950.8	2942.4	2938.2	2940.3	2936.1	2944.5	2948.7	2946.6	2948.7
37.5°	2487.0	2478.6	2482.8	2489.1	2510.1	2537.4	2562.5	2600.3	2625.5	2650.7	2673.8
40°	1941.3	1947.6	1964.4	2002.1	2056.7	2117.6	2174.3	2245.7	2317.0	2367.4	2413.5
42.5°	1464.9	1483.8	1525.7	1580.3	1662.2	1752.4	1840.6	1945.5	2031.6	2115.5	2174.3
45°	1101.8	1127.0	1181.6	1257.2	1347.3	1452.3	1563.6	1681.0	1783.9	1870.0	1935.0
47.5°	858.4	881.5	936.1	1015.8	1127.0	1236.2	1351.6	1473.3	1580.3	1664.3	1721.0
50°	677.9	707.2	755.5	839.5	950.8	1066.2	1185.8	1305.4	1406.2	1477.5	1527.9
52.5°	533.1	560.4	606.5	694.7	808.0	923.5	1034.6	1152.2	1240.3	1309.6	1343.2
55°	413.4	438.7	486.9	560.4	667.4	780.7	891.9	992.7	1074.5	1124.9	1156.4
57.5°	314.8	333.7	367.3	440.7	537.3	642.2	736.7	837.4	900.4	936.1	957.0
60°	239.3	254.0	289.6	346.3	434.4	524.7	604.4	680.0	730.4	759.8	780.7
62.5°	180.5	197.3	222.4	270.7	337.9	411.4	478.5	535.2	577.1	596.1	610.7
65°	123.8	136.4	155.3	193.1	249.7	302.2	354.7	396.7	424.0	445.0	453.3
67.5°	92.3	100.7	111.3	140.6	180.5	222.4	258.1	287.5	316.9	325.3	340.0
70°	69.3	75.6	86.0	107.0	130.1	159.5	188.9	205.7	226.7	241.4	245.6
72.5°	44.1	46.1	56.7	69.3	88.1	107.0	125.9	140.6	153.2	161.6	165.8
75°	25.2	37.8	37.8	50.4	63.0	71.4	84.0	94.4	100.7	107.0	107.0
77.5°	16.8	23.1	25.2	31.4	37.8	48.3	58.7	65.0	71.4	73.4	73.4
80°	14.7	16.8	16.8	23.1	27.3	35.7	42.0	44.1	48.3	50.4	54.6
82.5°	6.3	8.4	10.5	16.8	18.9	18.9	25.2	27.3	31.4	33.6	33.6
85°	2.1	4.2	4.2	6.3	10.5	12.6	14.7	16.8	18.9	18.9	21.0
87.5°	2.1	2.1	0.0	2.1	4.2	4.2	8.4	8.4	8.4	12.6	12.6
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: P248552

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2	4298.2
2.5°	4260.4	4262.5	4254.1	4252.0	4247.8	4249.9	4254.1
5°	4182.7	4184.8	4176.4	4168.1	4168.1	4165.9	4168.1
7.5°	4109.2	4111.4	4098.8	4094.5	4086.2	4088.3	4088.3
10°	4035.8	4035.8	4017.0	4014.8	4008.5	4006.4	4006.4
12.5°	3964.5	3958.1	3943.5	3935.1	3939.3	3926.7	3926.7
15°	3901.5	3891.0	3872.1	3865.8	3855.4	3851.1	3851.1
17.5°	3836.4	3828.1	3811.3	3798.7	3786.1	3784.0	3786.1
20°	3773.5	3765.1	3744.1	3735.7	3725.3	3725.3	3721.0
22.5°	3710.5	3702.1	3683.3	3677.0	3662.3	3662.3	3664.4
25°	3645.4	3639.1	3618.1	3614.0	3611.9	3603.5	3607.7
27.5°	3557.3	3553.1	3536.3	3530.0	3521.6	3519.6	3523.7
30°	3395.7	3389.4	3376.9	3370.6	3355.9	3357.9	3362.1
32.5°	3194.2	3185.9	3169.0	3162.7	3150.2	3146.0	3148.0
35°	2942.4	2936.1	2921.4	2921.4	2908.8	2904.6	2908.8
37.5°	2686.4	2692.6	2686.4	2692.6	2686.4	2684.2	2686.4
40°	2445.0	2468.1	2472.2	2495.4	2487.0	2499.5	2497.5
42.5°	2214.1	2251.9	2266.6	2285.5	2281.3	2289.7	2296.0
45°	1981.1	2012.7	2027.4	2040.0	2042.0	2046.3	2048.4
47.5°	1760.8	1786.0	1788.1	1802.8	1800.7	1800.7	1807.0
50°	1555.2	1571.9	1576.1	1586.6	1578.2	1574.0	1576.1
52.5°	1364.2	1380.9	1376.7	1380.9	1370.5	1366.3	1368.3
55°	1169.0	1177.3	1177.3	1177.3	1164.8	1164.8	1164.8
57.5°	969.6	971.7	967.5	969.6	967.5	954.9	952.8
60°	787.1	787.1	784.9	787.1	780.7	774.4	774.4
62.5°	614.9	619.1	627.5	619.1	614.9	619.1	612.8
65°	459.7	468.0	465.9	470.1	468.0	468.0	463.8
67.5°	346.3	348.4	350.5	352.6	352.6	352.6	352.6
70°	254.0	260.3	258.1	258.1	258.1	258.1	270.7
72.5°	170.0	178.4	176.3	180.5	180.5	184.7	180.5
75°	115.4	123.8	119.6	125.9	123.8	119.6	130.1
77.5°	77.7	81.9	84.0	86.0	84.0	81.9	84.0
80°	54.6	58.7	56.7	58.7	58.7	58.7	60.9
82.5°	33.6	39.9	37.8	39.9	37.8	39.9	39.9
85°	23.1	25.2	21.0	25.2	23.1	23.1	27.3
87.5°	14.7	12.6	12.6	14.7	12.6	14.7	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)