

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: P248616

Luminaire Tested: **LD8B80D010 ER8B80940 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248616  
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: LD8B80D010 ER8B80940 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7456.0 lumens  
Efficiency: N/A  
Efficacy: 100.2 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

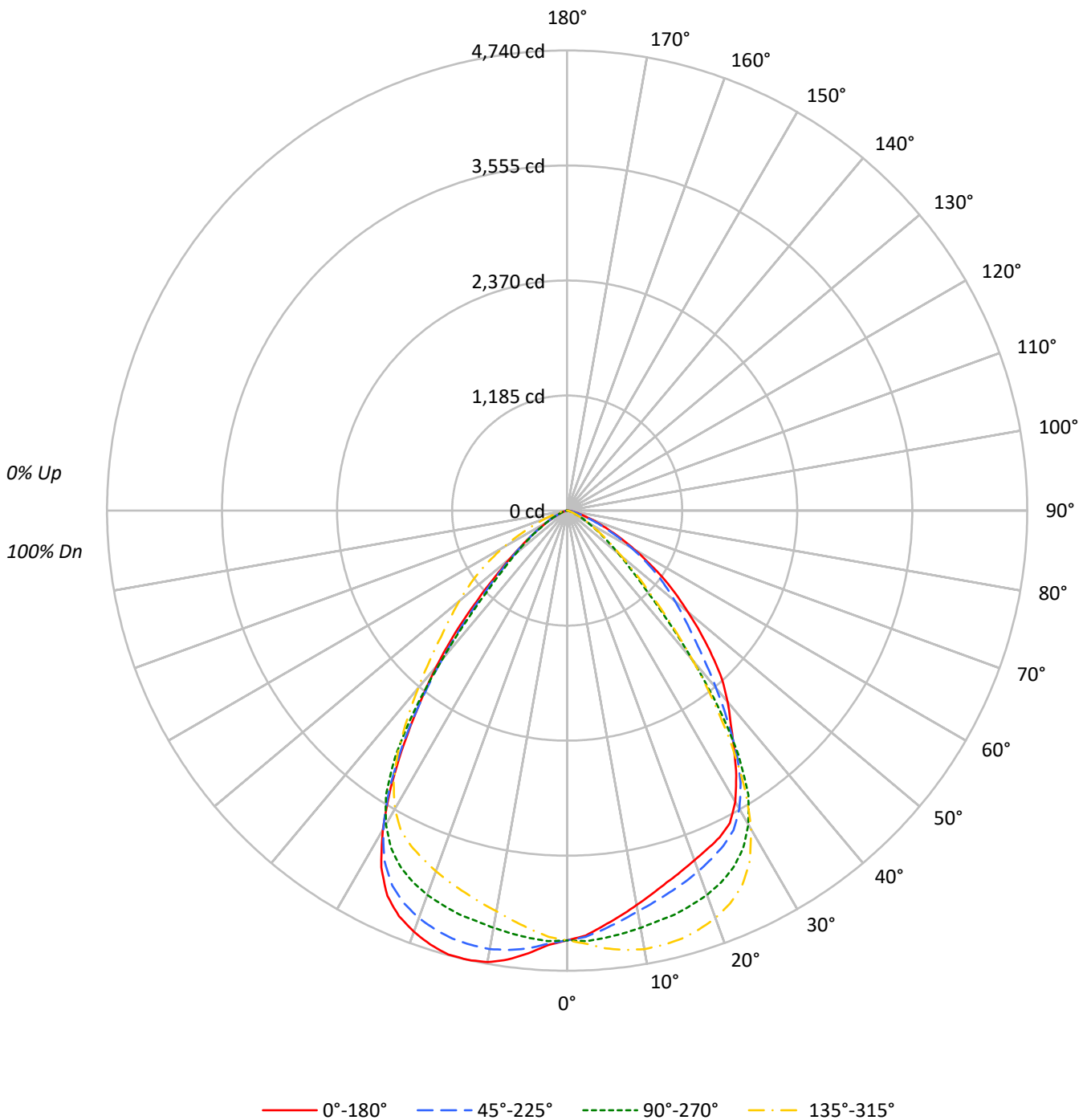
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	136494	136494	136494	136494
5°	132867	136814	141699	136814
10°	129193	136636	147871	136636
15°	126611	137446	151106	137446
20°	125748	138231	151495	138231
25°	126410	137954	149060	137954
30°	123285	132906	135295	132906
35°	112767	115940	110000	115940
40°	103533	80649	84219	80649
45°	91993	49200	56927	49200
50°	77865	32866	36498	32866
55°	64492	22424	23703	22424
60°	49184	14931	15060	14931
65°	34848	9303	8515	9303
70°	25136	6230	5653	6230
75°	15965	3098	2573	3098
80°	11134	2309	1918	2309
85°	9942	0	743	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.3	5.7
10°-20°	1220.0	16.4
20°-30°	1847.4	24.8
30°-40°	1851.5	24.8
40°-50°	1162.7	15.6
50°-60°	619.6	8.3
60°-70°	254.8	3.4
70°-80°	67.3	0.9
80°-90°	11.4	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3488.7	46.8
0°-40°	5340.3	71.6
0°-60°	7122.5	95.5
0°-90°	7456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7456.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4426	4426	4426	4426	4426	
5°	4292	4420	4578	4420	4292	405
15°	3966	4305	4733	4305	3966	1122
25°	3715	4055	4381	4055	3715	1704
35°	2996	3080	2922	3080	2996	1877
45°	2110	1128	1305	1128	2110	1622
55°	1200	417	441	417	1200	1070
65°	478	128	117	128	478	495
75°	134	26	22	26	134	152
85°	28	0	2	0	28	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4
2.5°	4381.0	4376.7	4374.5	4378.9	4381.0	4389.6	4387.5	4391.8	4391.8	4394.0	4398.3
5°	4292.4	4290.2	4292.4	4292.4	4301.0	4309.7	4307.5	4314.0	4318.3	4329.2	4333.4
7.5°	4210.3	4210.3	4208.1	4216.7	4221.1	4234.1	4231.8	4242.7	4249.2	4259.9	4275.1
10°	4126.0	4126.0	4128.1	4134.6	4136.8	4156.2	4156.2	4171.3	4180.0	4190.8	4210.3
12.5°	4043.9	4043.9	4056.8	4052.5	4061.1	4076.2	4082.7	4097.9	4110.8	4132.5	4151.9
15°	3966.0	3966.0	3970.4	3981.1	3987.6	4007.1	4017.9	4035.2	4050.3	4072.0	4100.1
17.5°	3899.0	3896.9	3899.0	3912.0	3925.0	3942.3	3950.9	3972.5	3987.6	4015.7	4041.7
20°	3832.0	3836.4	3836.4	3847.2	3855.8	3877.4	3886.0	3909.9	3927.1	3953.0	3983.4
22.5°	3773.7	3771.5	3771.5	3786.7	3793.2	3812.6	3821.2	3842.8	3862.3	3883.9	3912.0
25°	3715.3	3711.0	3719.7	3721.8	3726.1	3747.7	3754.2	3769.3	3788.8	3808.3	3836.4
27.5°	3628.8	3624.6	3626.7	3635.3	3641.8	3659.1	3663.5	3678.6	3693.7	3711.0	3734.8
30°	3462.4	3458.1	3456.0	3471.1	3477.6	3490.5	3497.0	3523.0	3527.3	3546.7	3564.0
32.5°	3242.0	3239.8	3244.2	3257.1	3263.6	3280.9	3289.5	3304.7	3315.4	3326.3	3343.5
35°	2995.6	2991.3	2995.6	3008.6	3008.6	3023.7	3030.2	3036.6	3034.5	3036.6	3032.4
37.5°	2766.5	2764.3	2766.5	2772.9	2766.5	2772.9	2766.5	2753.6	2729.8	2703.8	2677.8
40°	2572.0	2574.1	2561.2	2569.8	2546.0	2541.7	2518.0	2485.5	2438.0	2386.1	2312.7
42.5°	2364.5	2358.0	2349.4	2353.7	2334.3	2319.1	2280.2	2239.2	2178.6	2092.2	2003.5
45°	2109.5	2107.3	2103.0	2100.8	2087.8	2072.7	2040.3	1992.7	1925.8	1837.2	1731.2
47.5°	1860.9	1854.4	1854.4	1856.5	1841.4	1839.3	1813.3	1772.3	1713.9	1627.5	1517.2
50°	1623.1	1621.0	1625.3	1634.0	1623.1	1618.8	1601.6	1573.5	1521.6	1448.1	1344.3
52.5°	1409.2	1407.0	1411.4	1422.1	1417.8	1422.1	1404.9	1383.3	1348.7	1277.3	1186.6
55°	1199.6	1199.6	1199.6	1212.5	1212.5	1212.5	1203.8	1190.9	1158.5	1106.6	1022.4
57.5°	981.3	983.4	996.4	998.5	996.4	1000.7	998.5	985.5	964.0	927.3	862.4
60°	797.5	797.5	804.0	810.5	808.3	810.5	810.5	804.0	782.4	752.2	700.3
62.5°	631.1	637.6	633.2	637.6	646.2	637.6	633.2	629.0	613.8	594.4	551.1
65°	477.6	482.0	482.0	484.1	479.8	482.0	473.4	466.9	458.2	436.6	408.5
67.5°	363.1	363.1	363.1	363.1	360.9	358.8	356.6	350.2	335.0	326.4	296.1
70°	278.8	265.8	265.8	265.8	265.8	268.0	261.5	252.9	248.6	233.4	211.8
72.5°	185.8	190.2	185.8	185.8	181.6	183.7	175.1	170.7	166.4	157.8	144.8
75°	134.0	123.2	127.5	129.7	123.2	127.5	118.9	110.2	110.2	103.7	97.2
77.5°	86.5	84.3	86.5	88.6	86.5	84.3	80.0	75.6	75.6	73.5	67.0
80°	62.7	60.5	60.5	60.5	58.4	60.5	56.2	56.2	51.9	49.7	45.4
82.5°	41.1	41.1	38.9	41.1	38.9	41.1	34.6	34.6	34.6	32.4	28.1
85°	28.1	23.8	23.8	26.0	21.6	26.0	23.8	21.6	19.5	19.5	17.3
87.5°	13.0	15.1	13.0	15.1	13.0	13.0	15.1	13.0	13.0	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4
2.5°	4404.8	4406.9	4406.9	4415.6	4419.9	4422.0	4422.0	4439.4	4432.9	4437.2	4441.5
5°	4342.1	4355.0	4359.4	4359.4	4383.2	4391.8	4400.4	4419.9	4422.0	4435.0	4450.1
7.5°	4281.6	4296.7	4305.4	4324.8	4339.9	4355.0	4381.0	4394.0	4406.9	4424.3	4443.6
10°	4223.2	4240.5	4257.8	4272.9	4296.7	4316.2	4333.4	4363.7	4378.9	4402.6	4428.5
12.5°	4167.1	4190.8	4205.9	4231.8	4257.8	4275.1	4301.0	4329.2	4352.9	4376.7	4406.9
15°	4117.3	4145.4	4162.7	4190.8	4218.9	4242.7	4270.8	4305.4	4322.7	4350.8	4378.9
17.5°	4063.2	4093.6	4115.2	4141.1	4175.7	4201.6	4225.4	4259.9	4281.6	4311.8	4344.3
20°	4007.1	4037.4	4063.2	4089.2	4123.8	4149.7	4177.8	4212.4	4236.2	4266.4	4292.4
22.5°	3940.1	3968.2	3996.3	4026.5	4061.1	4082.7	4115.2	4145.4	4171.3	4199.4	4225.4
25°	3853.7	3888.3	3909.9	3937.9	3966.0	3989.8	4024.4	4054.6	4076.2	4102.2	4126.0
27.5°	3752.1	3778.0	3795.3	3819.0	3847.2	3868.8	3894.7	3925.0	3946.6	3970.4	3987.6
30°	3579.1	3603.0	3618.1	3635.3	3663.5	3682.9	3704.6	3732.6	3747.7	3765.0	3780.2
32.5°	3352.2	3371.7	3380.3	3393.3	3412.8	3432.2	3449.5	3473.3	3479.7	3490.5	3490.5
35°	3023.7	3028.0	3025.9	3030.2	3038.9	3049.6	3064.7	3079.9	3088.5	3088.5	3082.1
37.5°	2639.0	2613.1	2585.0	2563.3	2556.9	2552.5	2561.2	2567.6	2576.3	2580.6	2569.8
40°	2239.2	2180.8	2118.1	2061.9	2023.0	2005.7	1999.2	2003.5	2003.5	2018.6	2018.6
42.5°	1895.5	1804.7	1711.8	1627.5	1571.2	1528.1	1508.6	1508.6	1510.8	1521.6	1528.1
45°	1610.2	1495.6	1387.5	1294.7	1216.8	1160.6	1134.7	1128.2	1126.1	1130.4	1145.5
47.5°	1391.9	1273.0	1160.6	1046.1	964.0	907.8	884.0	875.3	866.7	875.3	877.5
50°	1221.2	1098.0	979.1	864.5	778.1	728.3	698.1	685.1	683.0	683.0	687.3
52.5°	1065.5	951.0	832.2	715.4	624.6	577.1	549.0	542.5	533.9	542.5	542.5
55°	918.5	804.0	687.3	577.1	501.4	451.7	425.8	417.1	412.8	419.3	419.3
57.5°	758.7	661.3	553.3	453.9	378.3	343.7	324.2	313.4	311.2	315.5	311.2
60°	622.5	540.4	447.4	356.6	298.3	261.5	246.4	242.1	237.7	242.1	242.1
62.5°	492.8	423.6	347.9	278.8	229.1	203.2	185.8	185.8	183.7	183.7	185.8
65°	365.3	311.2	257.2	198.8	160.0	140.5	127.5	127.5	125.3	127.5	125.3
67.5°	265.8	229.1	185.8	144.8	114.6	103.7	95.1	88.6	93.0	88.6	86.5
70°	194.6	164.2	134.0	110.2	88.6	77.8	71.3	69.1	64.9	64.9	64.9
72.5°	129.7	110.2	90.7	71.3	58.4	47.5	45.4	41.1	36.7	38.9	43.2
75°	86.5	73.5	64.9	51.9	38.9	38.9	26.0	26.0	21.6	26.0	19.5
77.5°	60.5	49.7	38.9	32.4	26.0	23.8	17.3	17.3	15.1	15.1	15.1
80°	43.2	36.7	28.1	23.8	17.3	17.3	15.1	13.0	10.8	10.8	13.0
82.5°	26.0	19.5	19.5	17.3	10.8	8.6	6.5	8.6	4.4	4.4	4.4
85°	15.1	13.0	10.8	6.5	4.4	4.4	2.1	0.0	2.1	2.1	0.0
87.5°	8.6	4.4	4.4	2.1	0.0	2.1	2.1	0.0	0.0	0.0	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4
2.5°	4452.4	4450.1	4454.5	4454.5	4467.5	4465.3	4471.8	4471.8	4467.5	4469.6	4478.3
5°	4467.5	4474.0	4486.9	4497.7	4517.1	4525.9	4536.6	4547.5	4549.6	4556.1	4562.6
7.5°	4467.5	4489.1	4504.2	4523.6	4549.6	4564.7	4588.5	4608.0	4616.6	4627.4	4640.3
10°	4458.8	4480.4	4508.5	4530.1	4562.6	4586.3	4610.1	4640.3	4653.3	4670.6	4687.9
12.5°	4441.5	4465.3	4495.5	4523.6	4560.4	4582.0	4612.2	4640.3	4659.8	4683.6	4703.1
15°	4415.6	4443.6	4471.8	4499.9	4538.8	4564.7	4592.8	4625.2	4644.7	4670.6	4687.9
17.5°	4374.5	4404.8	4430.8	4456.6	4493.4	4523.6	4549.6	4579.9	4599.3	4621.0	4644.7
20°	4324.8	4352.9	4381.0	4402.6	4439.4	4465.3	4493.4	4521.5	4536.6	4541.0	4577.7
22.5°	4262.2	4281.6	4303.2	4337.8	4359.4	4383.2	4409.1	4435.0	4450.1	4474.0	4486.9
25°	4158.3	4177.8	4201.6	4216.7	4242.7	4262.2	4288.1	4316.2	4324.8	4342.1	4355.0
27.5°	4013.6	4024.4	4035.2	4048.1	4063.2	4074.1	4089.2	4102.2	4110.8	4119.5	4128.1
30°	3784.4	3784.4	3784.4	3775.8	3782.3	3788.8	3790.9	3788.8	3788.8	3786.7	3786.7
32.5°	3481.9	3464.6	3445.1	3427.9	3421.4	3412.8	3408.4	3401.9	3391.1	3384.6	3386.8
35°	3073.4	3034.5	3010.7	2989.1	2971.9	2958.9	2952.4	2945.9	2943.8	2935.1	2926.4
37.5°	2563.3	2535.2	2518.0	2505.0	2489.9	2476.9	2479.0	2481.2	2487.6	2483.4	2485.5
40°	2023.0	2016.5	2023.0	2007.9	2003.5	2007.9	2018.6	2033.8	2042.5	2051.1	2066.2
42.5°	1538.9	1549.6	1564.8	1564.8	1571.2	1580.0	1592.9	1616.7	1629.6	1644.7	1662.1
45°	1158.5	1171.5	1190.9	1197.3	1201.7	1212.5	1227.7	1247.1	1255.7	1268.7	1283.8
47.5°	892.6	901.3	912.0	922.9	933.7	938.0	953.1	953.1	964.0	972.6	976.9
50°	695.9	704.6	713.2	719.7	724.1	730.6	734.8	741.3	743.5	747.8	749.9
52.5°	544.6	555.5	555.5	559.7	566.2	572.7	570.6	572.7	574.9	574.9	581.4
55°	425.8	425.8	432.3	432.3	436.6	434.4	436.6	436.6	436.6	436.6	438.8
57.5°	317.7	319.9	326.4	322.0	319.9	324.2	319.9	324.2	322.0	326.4	319.9
60°	244.2	244.2	246.4	246.4	248.6	248.6	248.6	246.4	246.4	244.2	244.2
62.5°	183.7	185.8	188.1	185.8	185.8	185.8	183.7	183.7	181.6	179.3	179.3
65°	123.2	121.1	125.3	121.1	123.2	123.2	121.1	123.2	116.7	118.9	116.7
67.5°	88.6	86.5	84.3	86.5	84.3	82.1	82.1	84.3	86.5	80.0	80.0
70°	58.4	60.5	58.4	60.5	62.7	62.7	60.5	58.4	60.5	56.2	58.4
72.5°	36.7	36.7	36.7	36.7	36.7	38.9	38.9	38.9	34.6	34.6	32.4
75°	17.3	23.8	19.5	17.3	23.8	23.8	21.6	21.6	19.5	19.5	19.5
77.5°	17.3	13.0	13.0	13.0	13.0	13.0	13.0	13.0	10.8	13.0	10.8
80°	8.6	8.6	8.6	6.5	8.6	8.6	10.8	8.6	8.6	6.5	10.8
82.5°	4.4	4.4	4.4	0.0	2.1	4.4	4.4	2.1	4.4	4.4	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P248616

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4
2.5°	4476.1	4474.0	4476.1	4478.3	4476.1	4474.0	4476.1	4478.3	4469.6	4467.5	4471.8
5°	4571.2	4571.2	4575.5	4577.7	4575.5	4571.2	4571.2	4562.6	4556.1	4549.6	4547.5
7.5°	4653.3	4657.7	4662.0	4664.1	4662.0	4657.7	4653.3	4640.3	4627.4	4616.6	4608.0
10°	4703.1	4709.6	4718.2	4722.5	4718.2	4709.6	4703.1	4687.9	4670.6	4653.3	4640.3
12.5°	4724.7	4731.2	4741.9	4739.8	4741.9	4731.2	4724.7	4703.1	4683.6	4659.8	4640.3
15°	4709.6	4718.2	4729.0	4733.3	4729.0	4718.2	4709.6	4687.9	4670.6	4644.7	4625.2
17.5°	4662.0	4675.0	4681.4	4687.9	4681.4	4675.0	4662.0	4644.7	4621.0	4599.3	4579.9
20°	4597.1	4605.8	4614.5	4616.6	4614.5	4605.8	4597.1	4577.7	4541.0	4536.6	4521.5
22.5°	4504.2	4510.7	4530.1	4523.6	4530.1	4510.7	4504.2	4486.9	4474.0	4450.1	4435.0
25°	4370.2	4376.7	4378.9	4381.0	4378.9	4376.7	4370.2	4355.0	4342.1	4324.8	4316.2
27.5°	4139.0	4139.0	4143.2	4145.4	4143.2	4139.0	4139.0	4128.1	4119.5	4110.8	4102.2
30°	3788.8	3788.8	3788.8	3799.7	3788.8	3788.8	3788.8	3786.7	3786.7	3788.8	3788.8
32.5°	3384.6	3380.3	3376.0	3380.3	3376.0	3380.3	3384.6	3386.8	3384.6	3391.1	3401.9
35°	2926.4	2924.3	2930.8	2922.1	2930.8	2924.3	2926.4	2926.4	2935.1	2943.8	2945.9
37.5°	2487.6	2483.4	2492.0	2483.4	2492.0	2483.4	2487.6	2485.5	2483.4	2487.6	2481.2
40°	2070.6	2074.9	2074.9	2092.2	2074.9	2074.9	2070.6	2066.2	2051.1	2042.5	2033.8
42.5°	1670.7	1683.7	1679.3	1692.3	1679.3	1683.7	1670.7	1662.1	1644.7	1629.6	1616.7
45°	1292.4	1301.2	1301.2	1305.4	1301.2	1301.2	1292.4	1283.8	1268.7	1255.7	1247.1
47.5°	992.0	992.0	992.0	994.2	992.0	992.0	992.0	976.9	972.6	964.0	953.1
50°	754.3	756.4	758.7	760.8	758.7	756.4	754.3	749.9	747.8	743.5	741.3
52.5°	579.2	581.4	577.1	581.4	577.1	581.4	579.2	581.4	574.9	574.9	572.7
55°	438.8	436.6	438.8	440.9	438.8	436.6	438.8	438.8	436.6	436.6	436.6
57.5°	322.0	317.7	317.7	317.7	317.7	317.7	322.0	319.9	326.4	322.0	324.2
60°	239.9	242.1	242.1	244.2	242.1	242.1	239.9	244.2	244.2	246.4	246.4
62.5°	177.2	183.7	179.3	183.7	179.3	183.7	177.2	179.3	179.3	181.6	183.7
65°	114.6	114.6	114.6	116.7	114.6	114.6	114.6	116.7	118.9	116.7	123.2
67.5°	77.8	80.0	84.3	82.1	84.3	80.0	77.8	80.0	80.0	86.5	84.3
70°	62.7	56.2	56.2	62.7	56.2	56.2	62.7	58.4	56.2	60.5	58.4
72.5°	36.7	32.4	36.7	36.7	36.7	32.4	36.7	32.4	34.6	34.6	38.9
75°	19.5	17.3	15.1	21.6	15.1	17.3	19.5	19.5	19.5	19.5	21.6
77.5°	13.0	10.8	15.1	15.1	15.1	10.8	13.0	10.8	13.0	10.8	13.0
80°	6.5	8.6	6.5	10.8	6.5	8.6	6.5	10.8	6.5	8.6	8.6
82.5°	2.1	4.4	4.4	4.4	4.4	4.4	2.1	2.1	4.4	4.4	2.1
85°	0.0	4.4	2.1	2.1	2.1	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	2.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248616

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4
2.5°	4471.8	4465.3	4467.5	4454.5	4454.5	4450.1	4452.4	4441.5	4437.2	4432.9	4439.4
5°	4536.6	4525.9	4517.1	4497.7	4486.9	4474.0	4467.5	4450.1	4435.0	4422.0	4419.9
7.5°	4588.5	4564.7	4549.6	4523.6	4504.2	4489.1	4467.5	4443.6	4424.3	4406.9	4394.0
10°	4610.1	4586.3	4562.6	4530.1	4508.5	4480.4	4458.8	4428.5	4402.6	4378.9	4363.7
12.5°	4612.2	4582.0	4560.4	4523.6	4495.5	4465.3	4441.5	4406.9	4376.7	4352.9	4329.2
15°	4592.8	4564.7	4538.8	4499.9	4471.8	4443.6	4415.6	4378.9	4350.8	4322.7	4305.4
17.5°	4549.6	4523.6	4493.4	4456.6	4430.8	4404.8	4374.5	4344.3	4311.8	4281.6	4259.9
20°	4493.4	4465.3	4439.4	4402.6	4381.0	4352.9	4324.8	4292.4	4266.4	4236.2	4212.4
22.5°	4409.1	4383.2	4359.4	4337.8	4303.2	4281.6	4262.2	4225.4	4199.4	4171.3	4145.4
25°	4288.1	4262.2	4242.7	4216.7	4201.6	4177.8	4158.3	4126.0	4102.2	4076.2	4054.6
27.5°	4089.2	4074.1	4063.2	4048.1	4035.2	4024.4	4013.6	3987.6	3970.4	3946.6	3925.0
30°	3790.9	3788.8	3782.3	3775.8	3784.4	3784.4	3784.4	3780.2	3765.0	3747.7	3732.6
32.5°	3408.4	3412.8	3421.4	3427.9	3445.1	3464.6	3481.9	3490.5	3490.5	3479.7	3473.3
35°	2952.4	2958.9	2971.9	2989.1	3010.7	3034.5	3073.4	3082.1	3088.5	3088.5	3079.9
37.5°	2479.0	2476.9	2489.9	2505.0	2518.0	2535.2	2563.3	2569.8	2580.6	2576.3	2567.6
40°	2018.6	2007.9	2003.5	2007.9	2023.0	2016.5	2023.0	2018.6	2018.6	2003.5	2003.5
42.5°	1592.9	1580.0	1571.2	1564.8	1564.8	1549.6	1538.9	1528.1	1521.6	1510.8	1508.6
45°	1227.7	1212.5	1201.7	1197.3	1190.9	1171.5	1158.5	1145.5	1130.4	1126.1	1128.2
47.5°	953.1	938.0	933.7	922.9	912.0	901.3	892.6	877.5	875.3	866.7	875.3
50°	734.8	730.6	724.1	719.7	713.2	704.6	695.9	687.3	683.0	683.0	685.1
52.5°	570.6	572.7	566.2	559.7	555.5	555.5	544.6	542.5	542.5	533.9	542.5
55°	436.6	434.4	436.6	432.3	432.3	425.8	425.8	419.3	419.3	412.8	417.1
57.5°	319.9	324.2	319.9	322.0	326.4	319.9	317.7	311.2	315.5	311.2	313.4
60°	248.6	248.6	248.6	246.4	246.4	244.2	244.2	242.1	242.1	237.7	242.1
62.5°	183.7	185.8	185.8	185.8	188.1	185.8	183.7	185.8	183.7	183.7	185.8
65°	121.1	123.2	123.2	121.1	125.3	121.1	123.2	125.3	127.5	125.3	127.5
67.5°	82.1	82.1	84.3	86.5	84.3	86.5	88.6	86.5	88.6	93.0	88.6
70°	60.5	62.7	62.7	60.5	58.4	60.5	58.4	64.9	64.9	64.9	69.1
72.5°	38.9	38.9	36.7	36.7	36.7	36.7	36.7	43.2	38.9	36.7	41.1
75°	21.6	23.8	23.8	17.3	19.5	23.8	17.3	19.5	26.0	21.6	26.0
77.5°	13.0	13.0	13.0	13.0	13.0	13.0	17.3	15.1	15.1	15.1	17.3
80°	10.8	8.6	8.6	6.5	8.6	8.6	8.6	13.0	10.8	10.8	13.0
82.5°	4.4	4.4	2.1	0.0	4.4	4.4	4.4	4.4	4.4	4.4	8.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248616

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4
2.5°	4422.0	4422.0	4419.9	4415.6	4406.9	4406.9	4404.8	4398.3	4394.0	4391.8	4391.8
5°	4400.4	4391.8	4383.2	4359.4	4359.4	4355.0	4342.1	4333.4	4329.2	4318.3	4314.0
7.5°	4381.0	4355.0	4339.9	4324.8	4305.4	4296.7	4281.6	4275.1	4259.9	4249.2	4242.7
10°	4333.4	4316.2	4296.7	4272.9	4257.8	4240.5	4223.2	4210.3	4190.8	4180.0	4171.3
12.5°	4301.0	4275.1	4257.8	4231.8	4205.9	4190.8	4167.1	4151.9	4132.5	4110.8	4097.9
15°	4270.8	4242.7	4218.9	4190.8	4162.7	4145.4	4117.3	4100.1	4072.0	4050.3	4035.2
17.5°	4225.4	4201.6	4175.7	4141.1	4115.2	4093.6	4063.2	4041.7	4015.7	3987.6	3972.5
20°	4177.8	4149.7	4123.8	4089.2	4063.2	4037.4	4007.1	3983.4	3953.0	3927.1	3909.9
22.5°	4115.2	4082.7	4061.1	4026.5	3996.3	3968.2	3940.1	3912.0	3883.9	3862.3	3842.8
25°	4024.4	3989.8	3966.0	3937.9	3909.9	3888.3	3853.7	3836.4	3808.3	3788.8	3769.3
27.5°	3894.7	3868.8	3847.2	3819.0	3795.3	3778.0	3752.1	3734.8	3711.0	3693.7	3678.6
30°	3704.6	3682.9	3663.5	3635.3	3618.1	3603.0	3579.1	3564.0	3546.7	3527.3	3523.0
32.5°	3449.5	3432.2	3412.8	3393.3	3380.3	3371.7	3352.2	3343.5	3326.3	3315.4	3304.7
35°	3064.7	3049.6	3038.9	3030.2	3025.9	3028.0	3023.7	3032.4	3036.6	3034.5	3036.6
37.5°	2561.2	2552.5	2556.9	2563.3	2585.0	2613.1	2639.0	2677.8	2703.8	2729.8	2753.6
40°	1999.2	2005.7	2023.0	2061.9	2118.1	2180.8	2239.2	2312.7	2386.1	2438.0	2485.5
42.5°	1508.6	1528.1	1571.2	1627.5	1711.8	1804.7	1895.5	2003.5	2092.2	2178.6	2239.2
45°	1134.7	1160.6	1216.8	1294.7	1387.5	1495.6	1610.2	1731.2	1837.2	1925.8	1992.7
47.5°	884.0	907.8	964.0	1046.1	1160.6	1273.0	1391.9	1517.2	1627.5	1713.9	1772.3
50°	698.1	728.3	778.1	864.5	979.1	1098.0	1221.2	1344.3	1448.1	1521.6	1573.5
52.5°	549.0	577.1	624.6	715.4	832.2	951.0	1065.5	1186.6	1277.3	1348.7	1383.3
55°	425.8	451.7	501.4	577.1	687.3	804.0	918.5	1022.4	1106.6	1158.5	1190.9
57.5°	324.2	343.7	378.3	453.9	553.3	661.3	758.7	862.4	927.3	964.0	985.5
60°	246.4	261.5	298.3	356.6	447.4	540.4	622.5	700.3	752.2	782.4	804.0
62.5°	185.8	203.2	229.1	278.8	347.9	423.6	492.8	551.1	594.4	613.8	629.0
65°	127.5	140.5	160.0	198.8	257.2	311.2	365.3	408.5	436.6	458.2	466.9
67.5°	95.1	103.7	114.6	144.8	185.8	229.1	265.8	296.1	326.4	335.0	350.2
70°	71.3	77.8	88.6	110.2	134.0	164.2	194.6	211.8	233.4	248.6	252.9
72.5°	45.4	47.5	58.4	71.3	90.7	110.2	129.7	144.8	157.8	166.4	170.7
75°	26.0	38.9	38.9	51.9	64.9	73.5	86.5	97.2	103.7	110.2	110.2
77.5°	17.3	23.8	26.0	32.4	38.9	49.7	60.5	67.0	73.5	75.6	75.6
80°	15.1	17.3	17.3	23.8	28.1	36.7	43.2	45.4	49.7	51.9	56.2
82.5°	6.5	8.6	10.8	17.3	19.5	19.5	26.0	28.1	32.4	34.6	34.6
85°	2.1	4.4	4.4	6.5	10.8	13.0	15.1	17.3	19.5	19.5	21.6
87.5°	2.1	2.1	0.0	2.1	4.4	4.4	8.6	8.6	8.6	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248616

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSWOH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4
2.5°	4387.5	4389.6	4381.0	4378.9	4374.5	4376.7	4381.0
5°	4307.5	4309.7	4301.0	4292.4	4292.4	4290.2	4292.4
7.5°	4231.8	4234.1	4221.1	4216.7	4208.1	4210.3	4210.3
10°	4156.2	4156.2	4136.8	4134.6	4128.1	4126.0	4126.0
12.5°	4082.7	4076.2	4061.1	4052.5	4056.8	4043.9	4043.9
15°	4017.9	4007.1	3987.6	3981.1	3970.4	3966.0	3966.0
17.5°	3950.9	3942.3	3925.0	3912.0	3899.0	3896.9	3899.0
20°	3886.0	3877.4	3855.8	3847.2	3836.4	3836.4	3832.0
22.5°	3821.2	3812.6	3793.2	3786.7	3771.5	3771.5	3773.7
25°	3754.2	3747.7	3726.1	3721.8	3719.7	3711.0	3715.3
27.5°	3663.5	3659.1	3641.8	3635.3	3626.7	3624.6	3628.8
30°	3497.0	3490.5	3477.6	3471.1	3456.0	3458.1	3462.4
32.5°	3289.5	3280.9	3263.6	3257.1	3244.2	3239.8	3242.0
35°	3030.2	3023.7	3008.6	3008.6	2995.6	2991.3	2995.6
37.5°	2766.5	2772.9	2766.5	2772.9	2766.5	2764.3	2766.5
40°	2518.0	2541.7	2546.0	2569.8	2561.2	2574.1	2572.0
42.5°	2280.2	2319.1	2334.3	2353.7	2349.4	2358.0	2364.5
45°	2040.3	2072.7	2087.8	2100.8	2103.0	2107.3	2109.5
47.5°	1813.3	1839.3	1841.4	1856.5	1854.4	1854.4	1860.9
50°	1601.6	1618.8	1623.1	1634.0	1625.3	1621.0	1623.1
52.5°	1404.9	1422.1	1417.8	1422.1	1411.4	1407.0	1409.2
55°	1203.8	1212.5	1212.5	1212.5	1199.6	1199.6	1199.6
57.5°	998.5	1000.7	996.4	998.5	996.4	983.4	981.3
60°	810.5	810.5	808.3	810.5	804.0	797.5	797.5
62.5°	633.2	637.6	646.2	637.6	633.2	637.6	631.1
65°	473.4	482.0	479.8	484.1	482.0	482.0	477.6
67.5°	356.6	358.8	360.9	363.1	363.1	363.1	363.1
70°	261.5	268.0	265.8	265.8	265.8	265.8	278.8
72.5°	175.1	183.7	181.6	185.8	185.8	190.2	185.8
75°	118.9	127.5	123.2	129.7	127.5	123.2	134.0
77.5°	80.0	84.3	86.5	88.6	86.5	84.3	86.5
80°	56.2	60.5	58.4	60.5	60.5	60.5	62.7
82.5°	34.6	41.1	38.9	41.1	38.9	41.1	41.1
85°	23.8	26.0	21.6	26.0	23.8	23.8	28.1
87.5°	15.1	13.0	13.0	15.1	13.0	15.1	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)