

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: P248463

Luminaire Tested: **LD8B80D010 ER8B80840 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80840 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8498.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

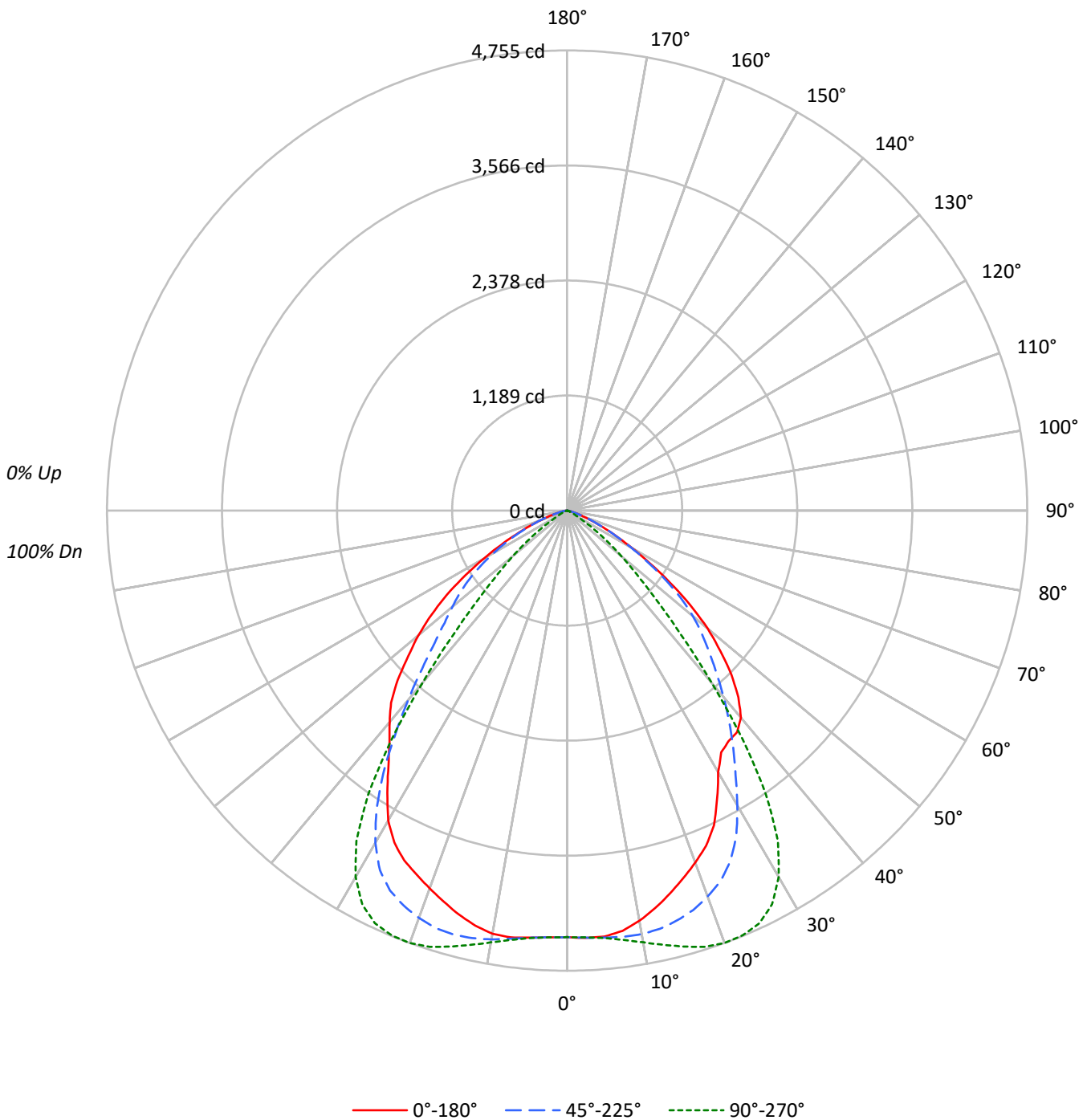
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	135942	135942	135942
5°	136752	137257	137111
10°	134742	141850	139066
15°	130803	148878	137973
20°	127005	156030	136295
25°	122130	160026	135664
30°	111146	155640	131642
35°	109492	134860	121116
40°	112466	93534	114820
45°	104697	56531	107963
50°	90812	34910	96205
55°	69691	18241	81642
60°	47482	7358	61623
65°	29536	3758	42509
70°	16030	2326	25948
75°	8364	1108	15334
80°	3747	1243	8311
85°	2477	814	7465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.0	5.0
10°-20°	1255.9	14.8
20°-30°	1916.0	22.5
30°-40°	1999.4	23.5
40°-50°	1501.8	17.7
50°-60°	924.0	10.9
60°-70°	376.0	4.4
70°-80°	88.6	1.0
80°-90°	12.2	0.1
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°	3595.9	42.3
0°-40°	5595.3	65.8
0°-60°	8021.1	94.4
0°-90°	8498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8498.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4408	4408	4408	4408	4408	
5°	4418	4430	4434	4430	4430	418
15°	4097	4385	4664	4535	4322	1154
25°	3590	3992	4703	4331	3987	1632
35°	2909	2990	3582	3311	3217	1836
45°	2401	2078	1296	1935	2476	1832
55°	1296	1231	339	1231	1519	1165
65°	405	410	52	550	583	422
75°	70	70	9	124	129	85
85°	7	7	2	16	21	10
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°	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5
2.5°	4420.2	4413.2	4420.2	4420.2	4422.5	4417.9	4420.2	4422.5	4417.9	4417.9	4417.9
5°	4417.9	4413.2	4417.9	4415.5	4420.2	4420.2	4424.9	4424.9	4429.5	4429.5	4436.6
7.5°	4380.4	4371.1	4380.4	4387.4	4392.1	4401.5	4413.2	4422.5	4431.9	4441.3	4452.9
10°	4303.2	4303.2	4310.2	4324.2	4338.3	4354.6	4375.7	4399.1	4422.5	4443.6	4464.6
12.5°	4207.3	4200.2	4214.3	4233.0	4254.0	4279.8	4312.6	4347.7	4385.1	4427.2	4460.0
15°	4097.3	4090.2	4106.6	4125.3	4151.1	4188.5	4228.3	4275.1	4328.9	4385.1	4438.9
17.5°	3984.9	3982.6	3999.0	4024.7	4045.8	4085.5	4137.1	4193.2	4254.0	4328.9	4399.1
20°	3870.3	3868.0	3884.3	3905.4	3933.5	3970.9	4022.4	4087.9	4160.4	4244.7	4326.6
22.5°	3750.9	3753.3	3767.3	3790.7	3814.2	3853.9	3907.7	3973.3	4052.8	4144.1	4235.3
25°	3589.5	3577.8	3596.5	3619.9	3659.7	3692.4	3744.0	3814.2	3896.0	3992.0	4099.6
27.5°	3355.5	3353.1	3369.6	3390.6	3425.7	3465.5	3521.6	3594.2	3680.8	3786.0	3891.3
30°	3121.5	3126.2	3133.2	3154.3	3177.7	3217.4	3273.6	3334.5	3416.3	3516.9	3629.3
32.5°	2962.4	2962.4	2971.8	2985.8	3002.2	3023.2	3063.0	3107.5	3170.7	3240.9	3322.7
35°	2908.6	2899.2	2908.6	2910.9	2913.2	2917.9	2924.9	2939.0	2960.0	2990.5	3020.9
37.5°	2885.2	2878.2	2878.2	2868.8	2857.1	2843.1	2824.3	2803.3	2779.9	2749.4	2726.1
40°	2793.9	2789.2	2784.5	2775.2	2749.4	2721.4	2690.9	2641.8	2588.0	2513.1	2438.3
42.5°	2618.4	2613.7	2611.4	2592.7	2569.3	2536.5	2501.4	2449.9	2382.1	2286.1	2178.5
45°	2400.8	2391.4	2384.4	2368.1	2351.6	2323.6	2290.8	2244.0	2176.1	2077.9	1949.2
47.5°	2148.1	2143.4	2141.1	2134.1	2117.7	2101.3	2080.2	2042.8	1981.9	1888.3	1755.0
50°	1893.0	1883.7	1888.3	1886.0	1879.0	1867.3	1853.2	1827.5	1780.7	1696.5	1574.8
52.5°	1600.5	1600.5	1598.2	1605.2	1607.5	1605.2	1607.5	1579.5	1539.7	1476.5	1373.5
55°	1296.3	1296.3	1303.4	1312.7	1322.1	1324.4	1322.1	1310.4	1282.3	1230.8	1139.5
57.5°	1010.8	1006.2	1020.2	1034.3	1043.6	1053.0	1045.9	1036.6	1020.2	978.1	907.9
60°	769.9	769.9	779.2	788.6	797.9	807.3	804.9	802.6	788.6	760.5	704.3
62.5°	566.3	568.6	568.6	575.6	585.0	594.4	601.4	594.4	587.3	568.6	531.2
65°	404.8	402.4	404.8	411.8	418.9	428.2	432.9	430.6	423.5	409.5	381.4
67.5°	271.4	269.1	278.4	280.8	285.5	294.9	292.5	294.9	292.5	280.8	257.4
70°	177.8	173.1	177.8	175.5	182.5	184.9	189.5	191.9	189.5	182.5	175.5
72.5°	110.0	107.6	110.0	112.3	114.7	117.0	121.7	121.7	119.3	114.7	105.3
75°	70.2	63.2	65.5	60.9	65.5	65.5	70.2	72.5	70.2	70.2	65.5
77.5°	42.1	42.1	42.1	42.1	42.1	42.1	42.1	44.5	46.8	42.1	39.8
80°	21.1	21.1	23.4	23.4	23.4	25.8	23.4	23.4	23.4	25.8	18.7
82.5°	16.4	14.0	14.0	14.0	16.4	14.0	14.0	14.0	14.0	14.0	14.0
85°	7.0	9.3	7.0	4.7	7.0	7.0	9.3	7.0	7.0	7.0	9.3
87.5°	2.3	2.3	0.0	0.0	0.0	2.3	0.0	2.3	2.3	4.7	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5
2.5°	4420.2	4415.5	4415.5	4413.2	4417.9	4413.2	4415.5	4413.2	4413.2	4417.9	4413.2
5°	4436.6	4438.9	4434.2	4431.9	4438.9	4438.9	4438.9	4434.2	4434.2	4436.6	4434.2
7.5°	4460.0	4464.6	4467.0	4469.3	4474.0	4476.4	4476.4	4474.0	4471.7	4478.7	4469.3
10°	4485.7	4492.7	4506.8	4513.8	4525.5	4525.5	4530.2	4530.2	4525.5	4530.2	4527.8
12.5°	4476.4	4518.4	4541.9	4558.2	4574.6	4588.6	4593.3	4595.7	4593.3	4602.7	4593.3
15°	4492.7	4527.8	4565.3	4593.3	4623.7	4640.1	4644.8	4663.5	4668.2	4670.6	4656.5
17.5°	4467.0	4530.2	4569.9	4612.1	4656.5	4686.9	4715.0	4726.7	4729.1	4733.7	4715.0
20°	4408.5	4478.7	4539.5	4600.4	4651.9	4698.6	4722.0	4754.8	4745.5	4764.2	4738.4
22.5°	4328.9	4408.5	4485.7	4565.3	4619.1	4675.3	4724.4	4747.8	4759.5	4759.5	4731.4
25°	4202.6	4296.2	4380.4	4462.3	4544.2	4612.1	4668.2	4703.3	4710.4	4708.0	4675.3
27.5°	4006.0	4106.6	4204.9	4298.5	4399.1	4478.7	4544.2	4586.3	4598.0	4598.0	4562.9
30°	3734.6	3842.2	3938.2	4050.4	4153.4	4242.4	4333.6	4371.1	4392.1	4392.1	4352.4
32.5°	3411.7	3502.9	3591.8	3701.8	3814.2	3914.8	4001.3	4052.8	4078.6	4076.2	4041.1
35°	3060.7	3105.1	3173.0	3254.9	3355.5	3449.1	3533.3	3582.5	3626.9	3624.6	3591.8
37.5°	2709.7	2698.0	2705.0	2735.4	2798.6	2864.1	2929.6	2976.5	3013.8	3030.3	3023.2
40°	2365.7	2304.9	2246.3	2225.3	2230.0	2253.4	2288.5	2323.6	2365.7	2386.8	2396.1
42.5°	2056.8	1953.9	1850.9	1773.7	1729.2	1715.2	1731.6	1743.2	1769.0	1799.4	1829.9
45°	1808.8	1670.8	1535.0	1415.7	1340.8	1296.3	1287.0	1296.3	1310.4	1340.8	1380.6
47.5°	1605.2	1443.7	1291.7	1158.3	1048.3	989.8	973.4	968.8	982.8	1010.8	1064.7
50°	1425.0	1263.6	1095.1	940.6	826.0	760.5	737.1	727.7	744.1	765.2	814.3
52.5°	1228.5	1069.4	896.2	746.4	627.1	559.3	533.5	519.5	528.8	556.9	606.0
55°	1015.5	868.1	711.3	556.9	442.2	379.1	348.6	339.3	348.6	379.1	428.2
57.5°	802.6	678.6	547.5	402.4	299.5	236.3	205.9	196.6	222.3	234.0	285.5
60°	627.1	526.5	414.2	294.9	205.9	156.8	126.4	119.3	131.1	152.1	194.2
62.5°	470.3	407.1	318.2	210.6	152.1	100.6	84.2	77.2	84.2	100.6	133.4
65°	341.6	292.5	222.3	154.4	102.9	74.9	56.2	51.5	58.5	70.2	98.3
67.5°	234.0	196.6	154.4	107.6	70.2	46.8	39.8	39.8	42.1	51.5	72.5
70°	152.1	128.7	98.3	70.2	46.8	35.1	30.4	25.8	30.4	37.4	49.1
72.5°	96.0	81.9	63.2	49.1	35.1	25.8	21.1	18.7	23.4	28.1	37.4
75°	58.5	44.5	32.8	25.8	18.7	18.7	18.7	9.3	11.7	18.7	23.4
77.5°	35.1	30.4	25.8	21.1	16.4	9.3	9.3	9.3	11.7	14.0	21.1
80°	18.7	16.4	11.7	11.7	9.3	7.0	9.3	7.0	4.7	11.7	14.0
82.5°	11.7	9.3	9.3	9.3	11.7	4.7	7.0	4.7	7.0	9.3	7.0
85°	7.0	7.0	7.0	4.7	11.7	4.7	4.7	2.3	2.3	4.7	4.7
87.5°	0.0	2.3	2.3	0.0	2.3	0.0	2.3	2.3	2.3	2.3	2.3
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°	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5	4408.5
2.5°	4415.5	4413.2	4415.5	4413.2	4413.2	4413.2	4415.5	4415.5	4413.2	4413.2	4417.9
5°	4434.2	4434.2	4434.2	4431.9	4429.5	4429.5	4434.2	4434.2	4427.2	4434.2	4434.2
7.5°	4474.0	4467.0	4474.0	4464.6	4460.0	4462.3	4464.6	4460.0	4455.3	4457.6	4457.6
10°	4525.5	4518.4	4518.4	4511.5	4504.4	4499.7	4495.1	4483.4	4471.7	4469.3	4460.0
12.5°	4586.3	4574.6	4567.6	4553.5	4541.9	4525.5	4511.5	4492.7	4469.3	4452.9	4436.6
15°	4647.2	4628.4	4612.1	4588.6	4562.9	4534.8	4504.4	4474.0	4436.6	4403.8	4375.7
17.5°	4696.3	4670.6	4640.1	4602.7	4565.3	4523.1	4478.7	4434.2	4380.4	4338.3	4305.5
20°	4712.7	4675.3	4635.5	4586.3	4537.2	4478.7	4422.5	4364.0	4303.2	4258.7	4221.3
22.5°	4691.6	4647.2	4598.0	4546.6	4481.0	4417.9	4352.4	4284.4	4230.6	4169.8	4134.7
25°	4633.1	4579.3	4525.5	4464.6	4401.5	4331.3	4261.1	4190.9	4125.3	4092.6	4048.2
27.5°	4513.8	4455.3	4396.8	4333.6	4261.1	4190.9	4118.4	4050.4	3994.3	3949.8	3924.1
30°	4303.2	4235.3	4167.5	4099.6	4036.4	3963.9	3896.0	3839.9	3783.7	3748.6	3722.9
32.5°	3980.3	3919.4	3851.6	3786.0	3727.6	3666.7	3610.6	3561.4	3521.6	3498.2	3479.5
35°	3545.1	3484.2	3432.7	3385.9	3336.8	3311.1	3276.0	3247.8	3231.5	3222.1	3219.8
37.5°	2997.5	2962.4	2946.0	2936.7	2927.3	2920.3	2924.9	2936.7	2946.0	2962.4	2981.1
40°	2412.5	2442.9	2452.3	2485.0	2515.4	2555.2	2599.7	2651.2	2693.3	2747.1	2784.5
42.5°	1879.0	1935.2	2000.7	2070.9	2145.7	2218.3	2307.2	2389.1	2464.0	2531.8	2590.3
45°	1443.7	1530.3	1628.6	1729.2	1829.9	1935.2	2042.8	2143.4	2232.3	2304.9	2365.7
47.5°	1125.5	1221.5	1347.8	1471.9	1593.5	1717.5	1836.9	1942.1	2017.0	2087.2	2141.1
50°	891.5	1001.5	1139.5	1282.3	1415.7	1546.7	1673.0	1771.4	1846.2	1902.4	1942.1
52.5°	690.3	821.3	961.7	1111.5	1254.2	1397.0	1513.9	1605.2	1666.1	1715.2	1745.6
55°	514.8	643.5	793.3	947.7	1092.8	1230.8	1340.8	1420.4	1474.2	1502.3	1518.6
57.5°	372.0	489.1	638.8	793.3	924.3	1055.3	1144.2	1216.8	1247.2	1263.6	1270.6
60°	271.4	379.1	512.4	645.8	769.9	875.1	952.4	1001.5	1024.9	1034.3	1031.9
62.5°	198.9	292.5	407.1	519.5	620.1	706.6	767.5	800.3	812.0	816.6	809.6
65°	152.1	224.6	322.9	409.5	486.7	549.9	594.4	615.4	622.4	620.1	615.4
67.5°	112.3	168.5	241.0	306.5	362.7	411.8	435.3	454.0	458.6	451.6	444.6
70°	79.6	124.0	175.5	220.0	262.1	290.2	315.9	318.2	318.2	315.9	311.2
72.5°	56.2	86.6	119.3	149.8	175.5	196.6	205.9	212.9	210.6	208.2	203.6
75°	37.4	53.8	86.6	93.6	117.0	124.0	133.4	133.4	135.7	128.7	128.7
77.5°	23.4	37.4	51.5	60.9	70.2	79.6	84.2	84.2	86.6	84.2	84.2
80°	14.0	23.4	28.1	42.1	42.1	49.1	51.5	53.8	49.1	56.2	49.1
82.5°	9.3	14.0	21.1	21.1	25.8	30.4	30.4	32.8	32.8	30.4	30.4
85°	7.0	9.3	11.7	14.0	14.0	16.4	14.0	14.0	16.4	18.7	16.4
87.5°	2.3	4.7	2.3	4.7	4.7	9.3	7.0	7.0	7.0	9.3	9.3
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: P248463

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4408.5	4408.5	4408.5	4408.5
2.5°	4413.2	4415.5	4413.2	4413.2
5°	4434.2	4431.9	4434.2	4429.5
7.5°	4450.6	4450.6	4448.3	4448.3
10°	4450.6	4441.3	4441.3	4441.3
12.5°	4415.5	4403.8	4396.8	4392.1
15°	4354.6	4333.6	4324.2	4321.9
17.5°	4275.1	4256.4	4244.7	4237.7
20°	4183.9	4165.1	4151.1	4153.4
22.5°	4104.3	4083.3	4073.9	4069.2
25°	4024.7	3999.0	3992.0	3987.3
27.5°	3896.0	3882.0	3875.0	3868.0
30°	3699.5	3692.4	3680.8	3697.1
32.5°	3472.5	3460.8	3451.4	3458.5
35°	3222.1	3215.1	3222.1	3217.4
37.5°	2992.8	2999.8	3009.2	3013.8
40°	2812.7	2838.4	2847.7	2852.4
42.5°	2632.5	2662.9	2681.6	2693.3
45°	2410.1	2440.6	2461.6	2475.7
47.5°	2180.8	2206.6	2227.6	2225.3
50°	1972.6	1986.6	1996.0	2005.4
52.5°	1762.0	1762.0	1764.3	1764.3
55°	1523.3	1518.6	1516.3	1518.6
57.5°	1261.2	1256.6	1254.2	1247.2
60°	1022.6	1008.5	999.2	999.2
62.5°	800.3	783.9	776.9	774.5
65°	601.4	599.0	585.0	582.6
67.5°	435.3	425.9	416.5	418.9
70°	306.5	292.5	292.5	287.8
72.5°	198.9	191.9	189.5	189.5
75°	124.0	124.0	119.3	128.7
77.5°	81.9	81.9	79.6	81.9
80°	49.1	49.1	49.1	46.8
82.5°	30.4	32.8	30.4	30.4
85°	16.4	18.7	14.0	21.1
87.5°	9.3	11.7	9.3	11.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)