

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: P248445

Luminaire Tested: **LD8B80D010 ER8B80830 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248445  
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 ER8B80830 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8226.0 lumens  
Efficiency: N/A  
Efficacy: 110.6 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

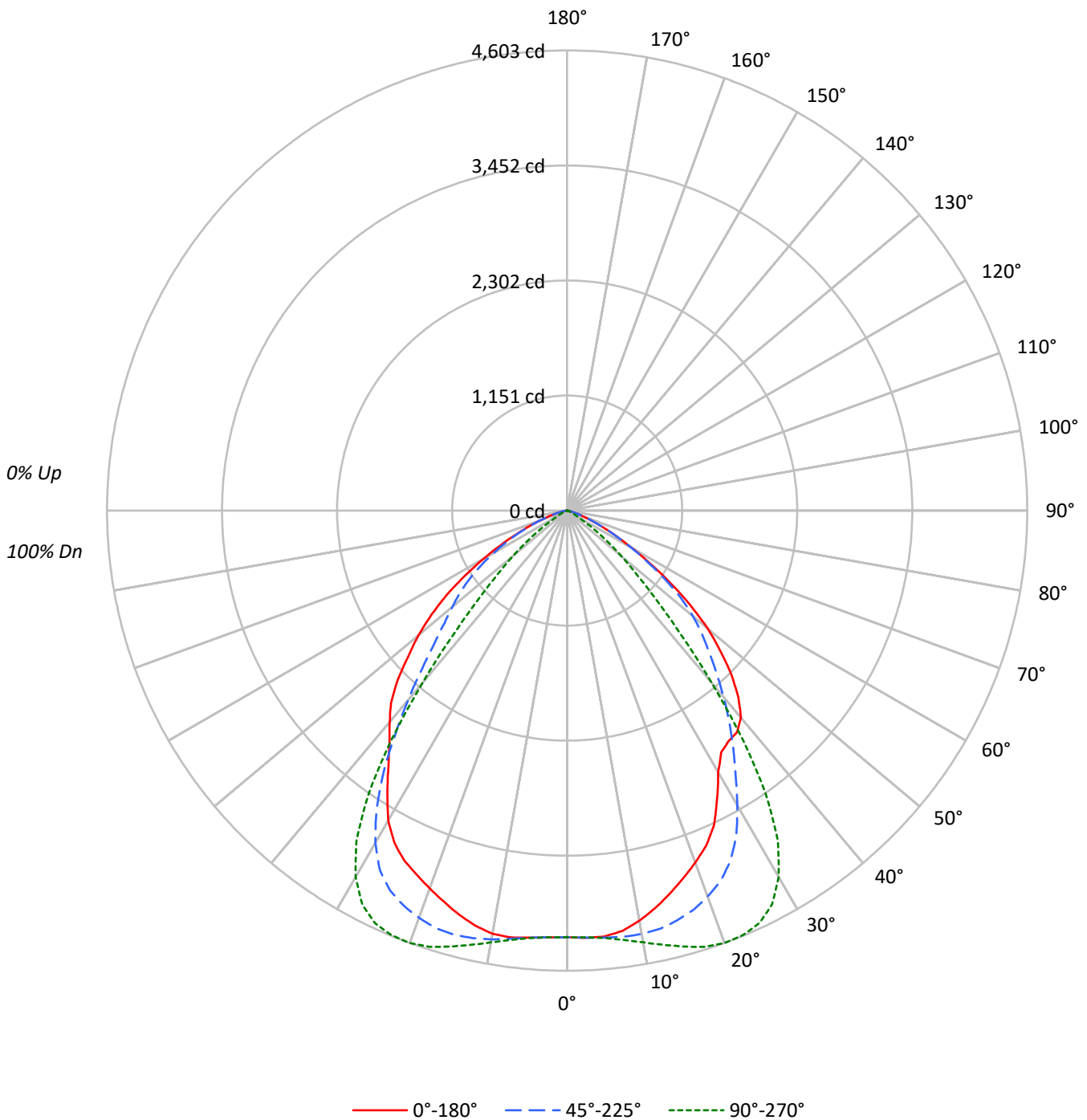
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	131591	131591	131591
5°	132372	132864	132725
10°	130427	137309	134613
15°	126614	144115	133558
20°	122939	151036	131934
25°	118220	154905	131323
30°	107589	150659	127429
35°	105987	130543	117243
40°	108867	90539	111145
45°	101348	54721	104509
50°	87905	33792	93125
55°	67460	17655	79029
60°	45958	7123	59650
65°	28588	3634	41152
70°	15516	2245	25118
75°	8090	1072	14845
80°	3623	1208	8044
85°	2406	814	7218



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.4	5.0
10°-20°	1215.7	14.8
20°-30°	1854.7	22.5
30°-40°	1935.4	23.5
40°-50°	1453.7	17.7
50°-60°	894.5	10.9
60°-70°	364.0	4.4
70°-80°	85.8	1.0
80°-90°	11.8	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°	3480.8	42.3
0°-40°	5416.2	65.8
0°-60°	7764.4	94.4
0°-90°	8226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8226.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4267	4267	4267	4267	4267	
5°	4276	4288	4292	4288	4288	405
15°	3966	4245	4514	4390	4184	1117
25°	3475	3864	4553	4193	3860	1580
35°	2816	2895	3468	3205	3114	1778
45°	2324	2011	1255	1873	2396	1773
55°	1255	1191	328	1191	1470	1128
65°	392	396	50	532	564	409
75°	68	68	9	120	125	82
85°	7	7	2	16	20	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°	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4
2.5°	4278.7	4271.9	4278.7	4278.7	4281.0	4276.4	4278.7	4281.0	4276.4	4276.4	4276.4
5°	4276.4	4271.9	4276.4	4274.2	4278.7	4278.7	4283.3	4283.3	4287.8	4287.8	4294.6
7.5°	4240.2	4231.2	4240.2	4247.0	4251.5	4260.6	4271.9	4281.0	4290.0	4299.1	4310.4
10°	4165.4	4165.4	4172.3	4185.8	4199.4	4215.3	4235.7	4258.3	4281.0	4301.3	4321.7
12.5°	4072.6	4065.8	4079.4	4097.5	4117.9	4142.8	4174.5	4208.5	4244.7	4285.5	4317.2
15°	3966.1	3959.3	3975.2	3993.3	4018.2	4054.5	4093.0	4138.3	4190.4	4244.7	4296.8
17.5°	3857.4	3855.1	3871.0	3895.9	3916.3	3954.8	4004.7	4059.0	4117.9	4190.4	4258.3
20°	3746.4	3744.2	3760.0	3780.4	3807.6	3843.8	3893.6	3957.0	4027.3	4108.8	4188.1
22.5°	3630.9	3633.2	3646.7	3669.4	3692.1	3730.5	3782.6	3846.1	3923.1	4011.4	4099.8
25°	3474.6	3463.3	3481.4	3504.1	3542.5	3574.2	3624.1	3692.1	3771.3	3864.2	3968.4
27.5°	3248.1	3245.8	3261.7	3282.1	3316.0	3354.6	3408.9	3479.1	3562.9	3664.9	3766.8
30°	3021.6	3026.1	3032.9	3053.3	3075.9	3114.5	3168.8	3227.7	3307.0	3404.4	3513.1
32.5°	2867.6	2867.6	2876.6	2890.2	2906.1	2926.5	2965.0	3008.0	3069.2	3137.1	3216.4
35°	2815.5	2806.4	2815.5	2817.7	2820.0	2824.5	2831.3	2844.9	2865.3	2894.8	2924.2
37.5°	2792.8	2786.0	2786.0	2777.0	2765.6	2752.1	2733.9	2713.5	2690.9	2661.4	2638.8
40°	2704.5	2700.0	2695.4	2686.4	2661.4	2634.3	2604.8	2557.2	2505.1	2432.7	2360.2
42.5°	2534.6	2530.1	2527.8	2509.7	2487.0	2455.3	2421.3	2371.5	2305.8	2213.0	2108.8
45°	2324.0	2314.9	2308.1	2292.3	2276.4	2249.2	2217.5	2172.2	2106.5	2011.4	1886.8
47.5°	2079.3	2074.8	2072.5	2065.8	2049.9	2034.0	2013.7	1977.4	1918.5	1827.9	1698.8
50°	1832.4	1823.4	1827.9	1825.7	1818.9	1807.5	1793.9	1769.0	1723.7	1642.2	1524.4
52.5°	1549.3	1549.3	1547.1	1553.8	1556.1	1553.8	1556.1	1528.9	1490.4	1429.2	1329.6
55°	1254.8	1254.8	1261.6	1270.7	1279.8	1282.0	1279.8	1268.5	1241.2	1191.4	1103.1
57.5°	978.5	974.0	987.6	1001.2	1010.2	1019.3	1012.5	1003.4	987.6	946.8	878.8
60°	745.2	745.2	754.2	763.3	772.4	781.5	779.2	776.9	763.3	736.1	681.8
62.5°	548.1	550.4	550.4	557.2	566.3	575.3	582.1	575.3	568.5	550.4	514.2
65°	391.8	389.6	391.8	398.7	405.5	414.5	419.0	416.8	410.0	396.4	369.2
67.5°	262.8	260.5	269.5	271.8	276.3	285.4	283.2	285.4	283.2	271.8	249.2
70°	172.1	167.6	172.1	169.9	176.7	179.0	183.4	185.7	183.4	176.7	169.9
72.5°	106.5	104.2	106.5	108.7	111.0	113.2	117.8	117.8	115.5	111.0	101.9
75°	67.9	61.1	63.4	58.9	63.4	63.4	67.9	70.2	67.9	67.9	63.4
77.5°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	43.1	45.3	40.8	38.5
80°	20.4	20.4	22.7	22.7	22.7	24.9	22.7	22.7	22.7	24.9	18.1
82.5°	15.9	13.6	13.6	13.6	15.9	13.6	13.6	13.6	13.6	13.6	13.6
85°	6.8	9.0	6.8	4.5	6.8	6.8	9.0	6.8	6.8	6.8	9.0
87.5°	2.3	2.3	0.0	0.0	0.0	2.3	0.0	2.3	2.3	4.5	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°	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4
2.5°	4278.7	4274.2	4274.2	4271.9	4276.4	4271.9	4274.2	4271.9	4271.9	4276.4	4271.9
5°	4294.6	4296.8	4292.3	4290.0	4296.8	4296.8	4296.8	4292.3	4292.3	4294.6	4292.3
7.5°	4317.2	4321.7	4324.0	4326.3	4330.8	4333.1	4333.1	4330.8	4328.5	4335.4	4326.3
10°	4342.1	4348.9	4362.5	4369.3	4380.6	4380.6	4385.2	4385.2	4380.6	4385.2	4382.9
12.5°	4333.1	4373.8	4396.5	4412.3	4428.2	4441.8	4446.3	4448.6	4446.3	4455.4	4446.3
15°	4348.9	4382.9	4419.2	4446.3	4475.7	4491.6	4496.1	4514.3	4518.8	4521.1	4507.5
17.5°	4324.0	4385.2	4423.7	4464.4	4507.5	4536.9	4564.1	4575.5	4577.7	4582.2	4564.1
20°	4267.4	4335.4	4394.2	4453.1	4503.0	4548.2	4570.9	4602.6	4593.6	4611.7	4586.8
22.5°	4190.4	4267.4	4342.1	4419.2	4471.3	4525.6	4573.2	4595.8	4607.2	4607.2	4579.9
25°	4068.1	4158.7	4240.2	4319.5	4398.8	4464.4	4518.8	4552.8	4559.6	4557.3	4525.6
27.5°	3877.8	3975.2	4070.3	4160.9	4258.3	4335.4	4398.8	4439.5	4450.9	4450.9	4416.9
30°	3615.0	3719.2	3812.1	3920.8	4020.5	4106.6	4194.9	4231.2	4251.5	4251.5	4213.0
32.5°	3302.5	3390.8	3476.9	3583.3	3692.1	3789.5	3873.2	3923.1	3948.0	3945.7	3911.8
35°	2962.7	3005.7	3071.5	3150.7	3248.1	3338.7	3420.2	3467.8	3510.8	3508.6	3476.9
37.5°	2622.9	2611.6	2618.4	2647.9	2709.0	2772.4	2835.9	2881.2	2917.4	2933.3	2926.5
40°	2290.0	2231.1	2174.4	2154.1	2158.6	2181.3	2215.2	2249.2	2290.0	2310.4	2319.4
42.5°	1991.0	1891.3	1791.6	1716.9	1673.9	1660.3	1676.1	1687.4	1712.4	1741.8	1771.3
45°	1750.9	1617.3	1485.9	1370.4	1297.9	1254.8	1245.8	1254.8	1268.5	1297.9	1336.4
47.5°	1553.8	1397.5	1250.3	1121.2	1014.7	958.1	942.3	937.7	951.3	978.5	1030.6
50°	1379.4	1223.1	1060.1	910.5	799.6	736.1	713.5	704.4	720.3	740.7	788.2
52.5°	1189.1	1035.1	867.5	722.5	607.0	541.4	516.4	502.8	511.9	539.1	586.6
55°	983.0	840.3	688.6	539.1	428.1	367.0	337.5	328.4	337.5	367.0	414.5
57.5°	776.9	656.9	530.0	389.6	289.9	228.8	199.3	190.3	215.2	226.5	276.3
60°	607.0	509.7	400.9	285.4	199.3	151.7	122.3	115.5	126.9	147.2	188.0
62.5°	455.3	394.1	308.0	203.8	147.2	97.4	81.5	74.8	81.5	97.4	129.1
65°	330.7	283.2	215.2	149.5	99.7	72.5	54.4	49.8	56.6	67.9	95.2
67.5°	226.5	190.3	149.5	104.2	67.9	45.3	38.5	38.5	40.8	49.8	70.2
70°	147.2	124.6	95.2	67.9	45.3	34.0	29.4	24.9	29.4	36.2	47.6
72.5°	92.9	79.3	61.1	47.6	34.0	24.9	20.4	18.1	22.7	27.2	36.2
75°	56.6	43.1	31.7	24.9	18.1	18.1	18.1	9.0	11.3	18.1	22.7
77.5°	34.0	29.4	24.9	20.4	15.9	9.0	9.0	9.0	11.3	13.6	20.4
80°	18.1	15.9	11.3	11.3	9.0	6.8	9.0	6.8	4.5	11.3	13.6
82.5°	11.3	9.0	9.0	9.0	11.3	4.5	6.8	4.5	6.8	9.0	6.8
85°	6.8	6.8	6.8	4.5	11.3	4.5	4.5	2.3	2.3	4.5	4.5
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°	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4	4267.4
2.5°	4274.2	4271.9	4274.2	4271.9	4271.9	4271.9	4274.2	4274.2	4271.9	4271.9	4276.4
5°	4292.3	4292.3	4292.3	4290.0	4287.8	4287.8	4292.3	4292.3	4285.5	4292.3	4292.3
7.5°	4330.8	4324.0	4330.8	4321.7	4317.2	4319.5	4321.7	4317.2	4312.7	4315.0	4315.0
10°	4380.6	4373.8	4373.8	4367.1	4360.2	4355.7	4351.2	4339.9	4328.5	4326.3	4317.2
12.5°	4439.5	4428.2	4421.4	4407.8	4396.5	4380.6	4367.1	4348.9	4326.3	4310.4	4294.6
15°	4498.4	4480.3	4464.4	4441.8	4416.9	4389.7	4360.2	4330.8	4294.6	4262.9	4235.7
17.5°	4546.0	4521.1	4491.6	4455.4	4419.2	4378.4	4335.4	4292.3	4240.2	4199.4	4167.7
20°	4561.8	4525.6	4487.1	4439.5	4391.9	4335.4	4281.0	4224.4	4165.4	4122.4	4086.2
22.5°	4541.5	4498.4	4450.9	4401.0	4337.6	4276.4	4213.0	4147.3	4095.2	4036.4	4002.4
25°	4484.8	4432.7	4380.6	4321.7	4260.6	4192.6	4124.7	4056.8	3993.3	3961.6	3918.6
27.5°	4369.3	4312.7	4256.1	4194.9	4124.7	4056.8	3986.5	3920.8	3866.5	3823.4	3798.5
30°	4165.4	4099.8	4034.1	3968.4	3907.2	3837.0	3771.3	3717.0	3662.6	3628.6	3603.7
32.5°	3852.9	3794.0	3728.3	3664.9	3608.3	3549.4	3495.0	3447.4	3408.9	3386.3	3368.1
35°	3431.6	3372.7	3322.8	3277.6	3230.0	3205.1	3171.1	3143.9	3128.0	3119.0	3116.7
37.5°	2901.5	2867.6	2851.7	2842.7	2833.6	2826.8	2831.3	2842.7	2851.7	2867.6	2885.7
40°	2335.3	2364.7	2373.8	2405.5	2434.9	2473.4	2516.5	2566.3	2607.1	2659.2	2695.4
42.5°	1818.9	1873.2	1936.6	2004.6	2077.1	2147.3	2233.4	2312.6	2385.1	2450.8	2507.4
45°	1397.5	1481.3	1576.5	1673.9	1771.3	1873.2	1977.4	2074.8	2160.9	2231.1	2290.0
47.5°	1089.5	1182.4	1304.7	1424.7	1542.5	1662.6	1778.1	1880.0	1952.5	2020.4	2072.5
50°	863.0	969.4	1103.1	1241.2	1370.4	1497.2	1619.5	1714.7	1787.1	1841.5	1880.0
52.5°	668.2	795.0	930.9	1075.9	1214.1	1352.3	1465.5	1553.8	1612.7	1660.3	1689.7
55°	498.3	622.9	767.9	917.4	1057.8	1191.4	1297.9	1374.9	1427.0	1454.2	1470.0
57.5°	360.1	473.4	618.3	767.9	894.7	1021.5	1107.6	1177.8	1207.3	1223.1	1229.9
60°	262.8	367.0	496.0	625.2	745.2	847.1	921.9	969.4	992.1	1001.2	998.9
62.5°	192.5	283.2	394.1	502.8	600.2	684.0	742.9	774.6	786.0	790.5	783.7
65°	147.2	217.4	312.6	396.4	471.1	532.3	575.3	595.7	602.5	600.2	595.7
67.5°	108.7	163.1	233.3	296.7	351.1	398.7	421.3	439.4	443.9	437.2	430.4
70°	77.0	120.0	169.9	212.9	253.7	280.9	305.8	308.0	308.0	305.8	301.3
72.5°	54.4	83.8	115.5	145.0	169.9	190.3	199.3	206.1	203.8	201.6	197.1
75°	36.2	52.1	83.8	90.6	113.2	120.0	129.1	129.1	131.4	124.6	124.6
77.5°	22.7	36.2	49.8	58.9	67.9	77.0	81.5	81.5	83.8	81.5	81.5
80°	13.6	22.7	27.2	40.8	40.8	47.6	49.8	52.1	47.6	54.4	47.6
82.5°	9.0	13.6	20.4	20.4	24.9	29.4	29.4	31.7	31.7	29.4	29.4
85°	6.8	9.0	11.3	13.6	13.6	15.9	13.6	13.6	15.9	18.1	15.9
87.5°	2.3	4.5	2.3	4.5	4.5	9.0	6.8	6.8	6.8	9.0	9.0
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: P248445

CATALOG NUMBER: LD8B80D010 ER8B80830 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	4267.4	4267.4	4267.4	4267.4
2.5°	4271.9	4274.2	4271.9	4271.9
5°	4292.3	4290.0	4292.3	4287.8
7.5°	4308.1	4308.1	4305.9	4305.9
10°	4308.1	4299.1	4299.1	4299.1
12.5°	4274.2	4262.9	4256.1	4251.5
15°	4215.3	4194.9	4185.8	4183.6
17.5°	4138.3	4120.2	4108.8	4102.0
20°	4049.9	4031.8	4018.2	4020.5
22.5°	3972.9	3952.6	3943.5	3938.9
25°	3895.9	3871.0	3864.2	3859.7
27.5°	3771.3	3757.7	3750.9	3744.2
30°	3581.1	3574.2	3562.9	3578.8
32.5°	3361.4	3350.0	3341.0	3347.8
35°	3119.0	3112.2	3119.0	3114.5
37.5°	2897.0	2903.8	2912.9	2917.4
40°	2722.6	2747.5	2756.6	2761.1
42.5°	2548.2	2577.6	2595.8	2607.1
45°	2333.0	2362.4	2382.8	2396.5
47.5°	2111.0	2136.0	2156.3	2154.1
50°	1909.5	1923.0	1932.1	1941.2
52.5°	1705.6	1705.6	1707.8	1707.8
55°	1474.6	1470.0	1467.8	1470.0
57.5°	1220.8	1216.4	1214.1	1207.3
60°	989.8	976.3	967.2	967.2
62.5°	774.6	758.8	752.0	749.8
65°	582.1	579.8	566.3	564.0
67.5°	421.3	412.2	403.2	405.5
70°	296.7	283.2	283.2	278.6
72.5°	192.5	185.7	183.4	183.4
75°	120.0	120.0	115.5	124.6
77.5°	79.3	79.3	77.0	79.3
80°	47.6	47.6	47.6	45.3
82.5°	29.4	31.7	29.4	29.4
85°	15.9	18.1	13.6	20.4
87.5°	9.0	11.3	9.0	11.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)