

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: P248517

Luminaire Tested: **LD8B80D010 ER8B80950 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248517  
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 ER8B80950 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7888.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 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

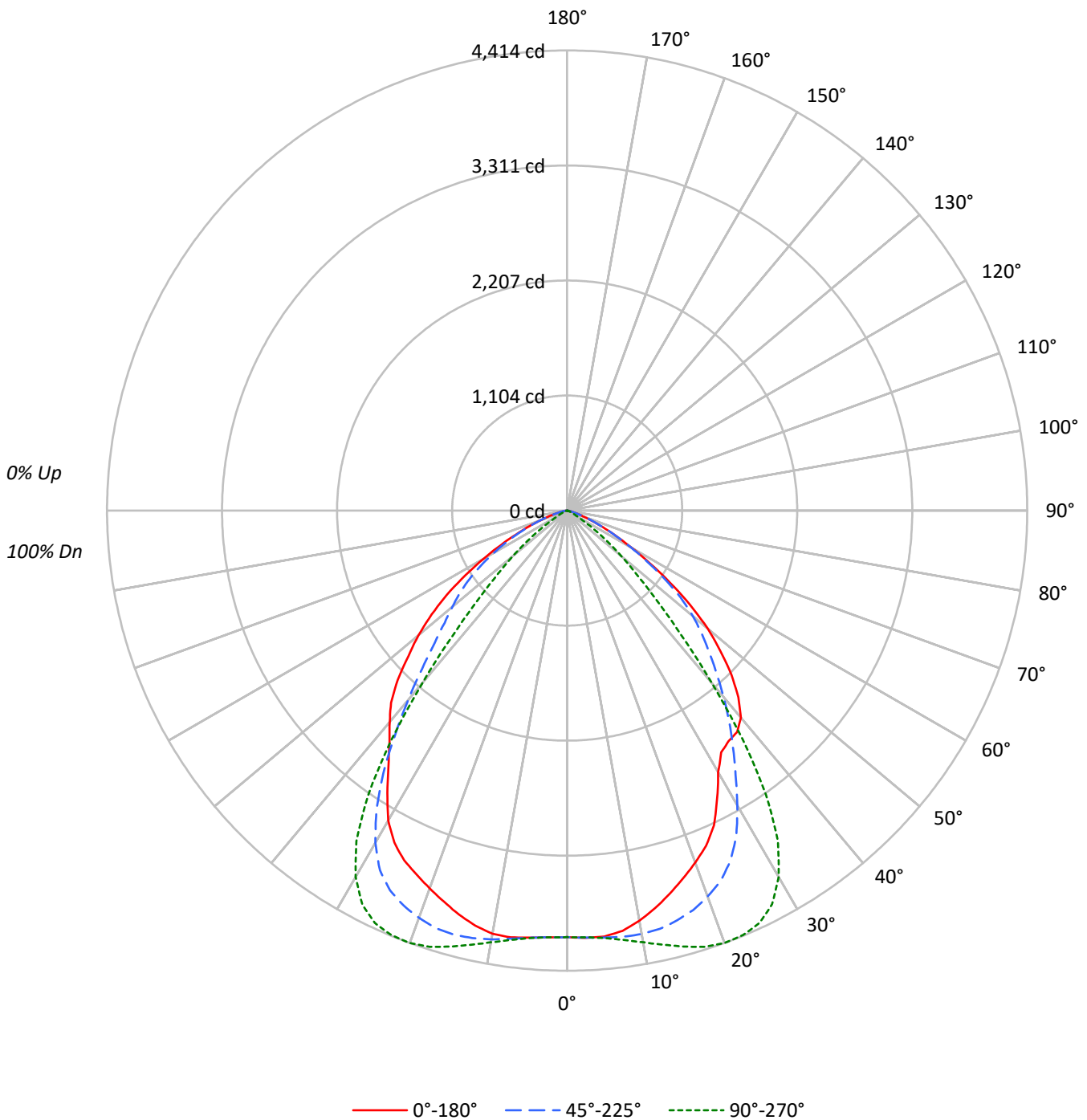
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	126182	126182	126182
5°	126933	127404	127271
10°	125070	131667	129084
15°	121414	138193	128070
20°	117889	144830	126513
25°	113362	148539	125927
30°	103167	144467	122192
35°	101632	125178	112424
40°	104395	86820	106576
45°	97183	52475	100214
50°	84293	32406	89297
55°	64691	16929	75782
60°	44071	6833	57195
65°	27413	3488	39459
70°	14885	2155	24091
75°	7768	1037	14238
80°	3481	1154	7707
85°	2300	778	6935



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.5	5.0
10°-20°	1165.8	14.8
20°-30°	1778.5	22.5
30°-40°	1855.9	23.5
40°-50°	1394.0	17.7
50°-60°	857.7	10.9
60°-70°	349.1	4.4
70°-80°	82.2	1.0
80°-90°	11.3	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°	3337.8	42.3
0°-40°	5193.7	65.8
0°-60°	7445.4	94.4
0°-90°	7888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7888.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4092	4092	4092	4092	4092	
5°	4101	4112	4116	4112	4112	388
15°	3803	4070	4329	4209	4012	1071
25°	3332	3705	4366	4020	3701	1515
35°	2700	2776	3325	3073	2986	1705
45°	2228	1929	1203	1796	2298	1700
55°	1203	1142	315	1142	1410	1082
65°	376	380	48	510	541	392
75°	65	65	9	115	120	78
85°	6	6	2	15	20	9
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°	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
2.5°	4102.9	4096.4	4102.9	4102.9	4105.1	4100.7	4102.9	4105.1	4100.7	4100.7	4100.7
5°	4100.7	4096.4	4100.7	4098.6	4102.9	4102.9	4107.3	4107.3	4111.6	4111.6	4118.1
7.5°	4066.0	4057.3	4066.0	4072.5	4076.8	4085.5	4096.4	4105.1	4113.8	4122.5	4133.3
10°	3994.3	3994.3	4000.8	4013.8	4026.9	4042.1	4061.6	4083.4	4105.1	4124.6	4144.2
12.5°	3905.3	3898.7	3911.7	3929.1	3948.7	3972.6	4003.0	4035.6	4070.3	4109.4	4139.8
15°	3803.2	3796.6	3811.8	3829.2	3853.1	3887.9	3924.8	3968.2	4018.2	4070.3	4120.3
17.5°	3698.9	3696.7	3711.9	3735.8	3755.4	3792.3	3840.1	3892.2	3948.7	4018.2	4083.4
20°	3592.5	3590.3	3605.5	3625.1	3651.1	3685.9	3733.7	3794.5	3861.8	3940.0	4016.0
22.5°	3481.7	3483.9	3496.9	3518.6	3540.4	3577.3	3627.2	3688.1	3761.9	3846.6	3931.3
25°	3331.8	3321.0	3338.4	3360.1	3397.0	3427.4	3475.2	3540.4	3616.4	3705.4	3805.3
27.5°	3114.6	3112.4	3127.7	3147.2	3179.8	3216.7	3268.9	3336.2	3416.5	3514.3	3612.0
30°	2897.4	2901.8	2908.3	2927.9	2949.6	2986.5	3038.6	3095.1	3171.1	3264.5	3368.8
32.5°	2749.7	2749.7	2758.4	2771.5	2786.7	2806.2	2843.2	2884.4	2943.1	3008.2	3084.2
35°	2699.8	2691.1	2699.8	2702.0	2704.1	2708.5	2715.0	2728.0	2747.6	2775.8	2804.0
37.5°	2678.1	2671.6	2671.6	2662.9	2652.0	2639.0	2621.6	2602.0	2580.4	2552.1	2530.4
40°	2593.4	2589.0	2584.7	2576.0	2552.1	2526.0	2497.8	2452.2	2402.2	2332.7	2263.2
42.5°	2430.5	2426.1	2423.9	2406.6	2384.8	2354.4	2321.9	2274.1	2211.1	2122.0	2022.1
45°	2228.5	2219.8	2213.3	2198.1	2182.8	2156.8	2126.4	2082.9	2019.9	1928.7	1809.3
47.5°	1993.9	1989.5	1987.4	1980.9	1965.7	1950.4	1930.9	1896.2	1839.7	1752.8	1629.0
50°	1757.1	1748.5	1752.8	1750.7	1744.1	1733.3	1720.2	1696.3	1652.9	1574.7	1461.8
52.5°	1485.6	1485.6	1483.5	1490.0	1492.2	1490.0	1492.2	1466.1	1429.2	1370.5	1275.0
55°	1203.3	1203.3	1209.8	1218.5	1227.2	1229.4	1227.2	1216.3	1190.2	1142.5	1057.7
57.5°	938.3	934.0	947.0	960.0	968.7	977.4	970.9	962.2	947.0	907.9	842.7
60°	714.6	714.6	723.3	732.0	740.6	749.3	747.2	745.0	732.0	705.9	653.8
62.5°	525.6	527.8	527.8	534.3	543.0	551.7	558.2	551.7	545.2	527.8	493.0
65°	375.7	373.6	375.7	382.3	388.8	397.5	401.8	399.7	393.1	380.1	354.1
67.5°	252.0	249.8	258.4	260.6	265.0	273.7	271.5	273.7	271.5	260.6	238.9
70°	165.1	160.7	165.1	162.9	169.4	171.6	175.9	178.1	175.9	169.4	162.9
72.5°	102.1	99.9	102.1	104.3	106.4	108.6	112.9	112.9	110.8	106.4	97.7
75°	65.2	58.6	60.8	56.5	60.8	60.8	65.2	67.3	65.2	65.2	60.8
77.5°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	41.3	43.4	39.1	36.9
80°	19.6	19.6	21.7	21.7	21.7	23.9	21.7	21.7	21.7	23.9	17.4
82.5°	15.2	13.0	13.0	13.0	15.2	13.0	13.0	13.0	13.0	13.0	13.0
85°	6.5	8.7	6.5	4.4	6.5	6.5	8.7	6.5	6.5	6.5	8.7
87.5°	2.2	2.2	0.0	0.0	0.0	2.2	0.0	2.2	2.2	4.4	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°	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
2.5°	4102.9	4098.6	4098.6	4096.4	4100.7	4096.4	4098.6	4096.4	4096.4	4100.7	4096.4
5°	4118.1	4120.3	4115.9	4113.8	4120.3	4120.3	4120.3	4115.9	4115.9	4118.1	4115.9
7.5°	4139.8	4144.2	4146.3	4148.5	4152.9	4155.0	4155.0	4152.9	4150.7	4157.2	4148.5
10°	4163.7	4170.2	4183.3	4189.8	4200.6	4200.6	4205.0	4205.0	4200.6	4205.0	4202.8
12.5°	4155.0	4194.1	4215.8	4231.0	4246.2	4259.3	4263.6	4265.8	4263.6	4272.3	4263.6
15°	4170.2	4202.8	4237.6	4263.6	4291.8	4307.0	4311.4	4328.8	4333.1	4335.3	4322.3
17.5°	4146.3	4205.0	4241.9	4281.0	4322.3	4350.5	4376.6	4387.4	4389.6	4393.9	4376.6
20°	4092.0	4157.2	4213.7	4270.2	4317.9	4361.4	4383.1	4413.5	4404.8	4422.2	4398.3
22.5°	4018.2	4092.0	4163.7	4237.6	4287.5	4339.7	4385.3	4407.0	4417.8	4417.8	4391.8
25°	3900.9	3987.8	4066.0	4142.0	4218.0	4281.0	4333.1	4365.7	4372.2	4370.1	4339.7
27.5°	3718.5	3811.8	3903.1	3990.0	4083.4	4157.2	4218.0	4257.1	4268.0	4268.0	4235.4
30°	3466.5	3566.4	3655.5	3759.7	3855.3	3937.8	4022.6	4057.3	4076.8	4076.8	4039.9
32.5°	3166.8	3251.5	3334.0	3436.1	3540.4	3633.7	3714.1	3761.9	3785.8	3783.6	3751.0
35°	2841.0	2882.2	2945.2	3021.2	3114.6	3201.5	3279.7	3325.3	3366.6	3364.4	3334.0
37.5°	2515.1	2504.3	2510.8	2539.1	2597.7	2658.5	2719.3	2762.8	2797.5	2812.8	2806.2
40°	2195.9	2139.4	2085.1	2065.6	2069.9	2091.6	2124.2	2156.8	2195.9	2215.5	2224.1
42.5°	1909.2	1813.6	1718.0	1646.4	1605.1	1592.1	1607.3	1618.1	1642.0	1670.2	1698.5
45°	1679.0	1550.8	1424.8	1314.1	1244.6	1203.3	1194.6	1203.3	1216.3	1244.6	1281.5
47.5°	1490.0	1340.1	1199.0	1075.1	973.0	918.8	903.6	899.2	912.2	938.3	988.2
50°	1322.7	1172.9	1016.5	873.1	766.7	705.9	684.2	675.5	690.7	710.2	755.8
52.5°	1140.3	992.6	831.9	692.9	582.1	519.1	495.2	482.2	490.8	516.9	562.5
55°	942.6	805.8	660.3	516.9	410.5	351.9	323.6	314.9	323.6	351.9	397.5
57.5°	745.0	629.9	508.2	373.6	278.0	219.4	191.1	182.4	206.4	217.2	265.0
60°	582.1	488.7	384.5	273.7	191.1	145.5	117.3	110.8	121.6	141.2	180.3
62.5°	436.6	377.9	295.4	195.5	141.2	93.4	78.2	71.7	78.2	93.4	123.8
65°	317.1	271.5	206.4	143.3	95.6	69.5	52.1	47.8	54.3	65.2	91.2
67.5°	217.2	182.4	143.3	99.9	65.2	43.4	36.9	36.9	39.1	47.8	67.3
70°	141.2	119.5	91.2	65.2	43.4	32.6	28.2	23.9	28.2	34.8	45.6
72.5°	89.1	76.0	58.6	45.6	32.6	23.9	19.6	17.4	21.7	26.0	34.8
75°	54.3	41.3	30.4	23.9	17.4	17.4	17.4	8.7	10.8	17.4	21.7
77.5°	32.6	28.2	23.9	19.6	15.2	8.7	8.7	8.7	10.8	13.0	19.6
80°	17.4	15.2	10.8	10.8	8.7	6.5	8.7	6.5	4.4	10.8	13.0
82.5°	10.8	8.7	8.7	8.7	10.8	4.4	6.5	4.4	6.5	8.7	6.5
85°	6.5	6.5	6.5	4.4	10.8	4.4	4.4	2.2	2.2	4.4	4.4
87.5°	0.0	2.2	2.2	0.0	2.2	0.0	2.2	2.2	2.2	2.2	2.2
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°	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0	4092.0
2.5°	4098.6	4096.4	4098.6	4096.4	4096.4	4096.4	4098.6	4098.6	4096.4	4096.4	4100.7
5°	4115.9	4115.9	4115.9	4113.8	4111.6	4111.6	4115.9	4115.9	4109.4	4115.9	4115.9
7.5°	4152.9	4146.3	4152.9	4144.2	4139.8	4142.0	4144.2	4139.8	4135.5	4137.7	4137.7
10°	4200.6	4194.1	4194.1	4187.6	4181.1	4176.7	4172.4	4161.5	4150.7	4148.5	4139.8
12.5°	4257.1	4246.2	4239.8	4226.7	4215.8	4200.6	4187.6	4170.2	4148.5	4133.3	4118.1
15°	4313.6	4296.2	4281.0	4259.3	4235.4	4209.3	4181.1	4152.9	4118.1	4087.7	4061.6
17.5°	4359.2	4335.3	4307.0	4272.3	4237.6	4198.5	4157.2	4115.9	4066.0	4026.9	3996.5
20°	4374.4	4339.7	4302.7	4257.1	4211.5	4157.2	4105.1	4050.8	3994.3	3953.0	3918.3
22.5°	4354.9	4313.6	4268.0	4220.2	4159.4	4100.7	4039.9	3976.9	3926.9	3870.5	3837.9
25°	4300.6	4250.6	4200.6	4144.2	4085.5	4020.4	3955.2	3890.1	3829.2	3798.8	3757.6
27.5°	4189.8	4135.5	4081.2	4022.6	3955.2	3890.1	3822.7	3759.7	3707.6	3666.3	3642.5
30°	3994.3	3931.3	3868.3	3805.3	3746.7	3679.3	3616.4	3564.2	3512.1	3479.5	3455.7
32.5°	3694.5	3638.1	3575.1	3514.3	3460.0	3403.5	3351.4	3305.8	3268.9	3247.1	3229.7
35°	3290.6	3234.1	3186.3	3142.9	3097.2	3073.4	3040.8	3014.7	2999.5	2990.8	2988.7
37.5°	2782.3	2749.7	2734.5	2725.9	2717.2	2710.7	2715.0	2725.9	2734.5	2749.7	2767.1
40°	2239.3	2267.5	2276.3	2306.7	2334.9	2371.8	2413.1	2460.9	2499.9	2549.9	2584.7
42.5°	1744.1	1796.3	1857.1	1922.2	1991.7	2059.1	2141.6	2217.6	2287.1	2350.1	2404.4
45°	1340.1	1420.5	1511.7	1605.1	1698.5	1796.3	1896.2	1989.5	2072.1	2139.4	2195.9
47.5°	1044.7	1133.8	1251.1	1366.2	1479.1	1594.2	1705.0	1802.7	1872.3	1937.4	1987.4
50°	827.5	929.6	1057.7	1190.2	1314.1	1435.7	1553.0	1644.2	1713.7	1765.9	1802.7
52.5°	640.7	762.4	892.7	1031.7	1164.2	1296.7	1405.3	1490.0	1546.5	1592.1	1620.3
55°	477.8	597.3	736.3	879.7	1014.3	1142.5	1244.6	1318.4	1368.4	1394.4	1409.6
57.5°	345.3	454.0	592.9	736.3	857.9	979.6	1062.1	1129.4	1157.7	1172.9	1179.4
60°	252.0	351.9	475.6	599.5	714.6	812.3	884.0	929.6	951.4	960.0	957.8
62.5°	184.6	271.5	377.9	482.2	575.6	655.9	712.4	742.8	753.7	758.0	751.5
65°	141.2	208.5	299.7	380.1	451.8	510.4	551.7	571.3	577.7	575.6	571.3
67.5°	104.3	156.4	223.7	284.5	336.7	382.3	404.0	421.4	425.7	419.2	412.7
70°	73.9	115.1	162.9	204.2	243.2	269.3	293.2	295.4	295.4	293.2	288.9
72.5°	52.1	80.4	110.8	139.0	162.9	182.4	191.1	197.6	195.5	193.3	189.0
75°	34.8	50.0	80.4	86.9	108.6	115.1	123.8	123.8	126.0	119.5	119.5
77.5°	21.7	34.8	47.8	56.5	65.2	73.9	78.2	78.2	80.4	78.2	78.2
80°	13.0	21.7	26.0	39.1	39.1	45.6	47.8	50.0	45.6	52.1	45.6
82.5°	8.7	13.0	19.6	19.6	23.9	28.2	28.2	30.4	30.4	28.2	28.2
85°	6.5	8.7	10.8	13.0	13.0	15.2	13.0	13.0	15.2	17.4	15.2
87.5°	2.2	4.4	2.2	4.4	4.4	8.7	6.5	6.5	6.5	8.7	8.7
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: P248517

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	4092.0	4092.0	4092.0	4092.0
2.5°	4096.4	4098.6	4096.4	4096.4
5°	4115.9	4113.8	4115.9	4111.6
7.5°	4131.1	4131.1	4129.0	4129.0
10°	4131.1	4122.5	4122.5	4122.5
12.5°	4098.6	4087.7	4081.2	4076.8
15°	4042.1	4022.6	4013.8	4011.7
17.5°	3968.2	3950.9	3940.0	3933.5
20°	3883.5	3866.1	3853.1	3855.3
22.5°	3809.7	3790.2	3781.4	3777.1
25°	3735.8	3711.9	3705.4	3701.1
27.5°	3616.4	3603.3	3596.8	3590.3
30°	3433.9	3427.4	3416.5	3431.7
32.5°	3223.3	3212.4	3203.7	3210.2
35°	2990.8	2984.3	2990.8	2986.5
37.5°	2778.0	2784.5	2793.2	2797.5
40°	2610.8	2634.6	2643.3	2647.6
42.5°	2443.5	2471.7	2489.1	2499.9
45°	2237.1	2265.4	2284.9	2298.0
47.5°	2024.3	2048.2	2067.7	2065.6
50°	1831.0	1844.0	1852.7	1861.4
52.5°	1635.5	1635.5	1637.7	1637.7
55°	1414.0	1409.6	1407.4	1409.6
57.5°	1170.7	1166.4	1164.2	1157.7
60°	949.2	936.2	927.4	927.4
62.5°	742.8	727.6	721.1	718.9
65°	558.2	556.0	543.0	540.8
67.5°	404.0	395.3	386.6	388.8
70°	284.5	271.5	271.5	267.2
72.5°	184.6	178.1	175.9	175.9
75°	115.1	115.1	110.8	119.5
77.5°	76.0	76.0	73.9	76.0
80°	45.6	45.6	45.6	43.4
82.5°	28.2	30.4	28.2	28.2
85°	15.2	17.4	13.0	19.6
87.5°	8.7	10.8	8.7	10.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)