

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: P249273

Luminaire Tested: **LD8B80D010 ER8B80950 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80950 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7786.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

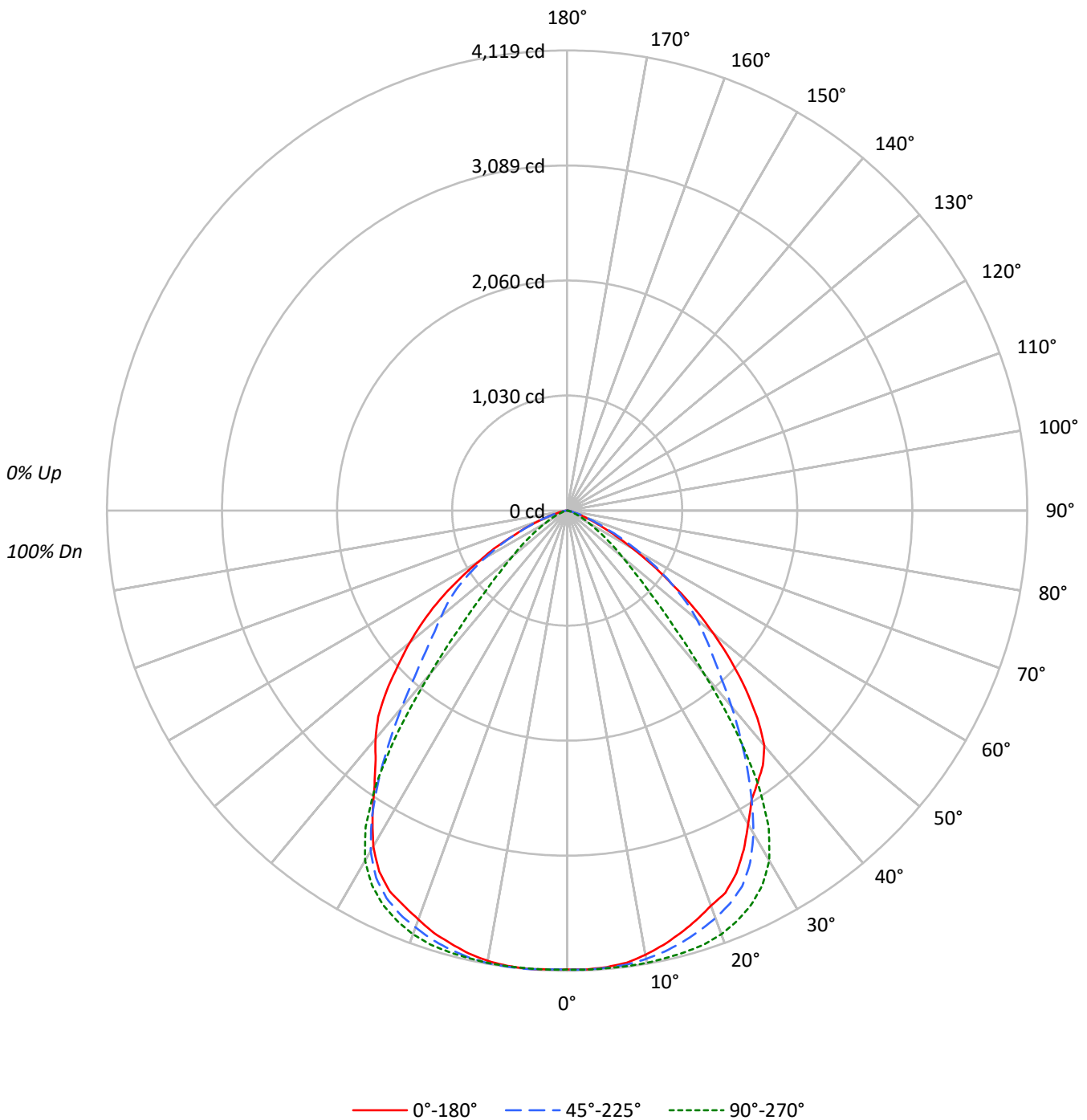
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	126676	126676	126676
5°	126955	127299	127435
10°	126422	128702	128148
15°	125021	130582	128118
20°	123520	132420	127789
25°	121915	132572	127920
30°	115341	128843	123584
35°	111897	111976	113140
40°	110509	77046	107406
45°	98469	46252	99817
50°	81875	30784	88222
55°	61406	21220	74804
60°	41617	14142	56437
65°	25100	9172	38774
70°	13921	4968	23856
75°	6303	2097	12343
80°	5487	2344	8613
85°	6227	3114	8598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.1	5.0
10°-20°	1138.6	14.6
20°-30°	1728.2	22.2
30°-40°	1815.1	23.3
40°-50°	1360.8	17.5
50°-60°	873.1	11.2
60°-70°	373.5	4.8
70°-80°	88.2	1.1
80°-90°	16.4	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°	3258.8	41.9
0°-40°	5073.9	65.2
0°-60°	7307.8	93.9
0°-90°	7786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7786.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4108	4108	4108	4108	4108	
5°	4101	4108	4112	4119	4117	390
15°	3916	3998	4090	4064	4013	1105
25°	3583	3709	3896	3826	3760	1637
35°	2972	2807	2975	2939	3006	1866
45°	2258	1846	1061	1793	2289	1729
55°	1142	1142	395	1191	1391	1036
65°	344	406	126	523	531	367
75°	53	62	18	106	104	77
85°	18	11	9	18	24	19
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°	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0
2.5°	4110.3	4114.7	4112.5	4112.5	4110.3	4112.5	4112.5	4116.9	4116.9	4112.5	4110.3
5°	4101.4	4105.8	4105.8	4101.4	4101.4	4112.5	4105.8	4110.3	4110.3	4108.0	4108.0
7.5°	4081.6	4081.6	4090.4	4083.8	4083.8	4090.4	4088.2	4092.6	4097.0	4099.3	4099.3
10°	4037.5	4041.9	4044.1	4044.1	4046.3	4052.9	4057.3	4066.2	4070.5	4075.0	4077.2
12.5°	3982.4	3989.0	3991.2	3989.0	3995.6	4004.4	4015.5	4026.5	4033.1	4041.9	4048.5
15°	3916.2	3916.2	3920.6	3927.2	3931.7	3944.9	3955.9	3969.1	3986.8	3997.8	4008.8
17.5°	3843.5	3847.9	3854.5	3854.5	3863.3	3885.3	3892.0	3911.8	3931.7	3942.7	3964.7
20°	3764.1	3768.5	3775.1	3779.5	3790.5	3808.2	3821.4	3839.0	3861.1	3881.0	3903.0
22.5°	3702.3	3693.5	3697.9	3702.3	3713.4	3728.8	3744.2	3766.2	3788.3	3808.2	3830.2
25°	3583.2	3585.4	3592.1	3596.5	3609.7	3622.9	3640.6	3667.0	3686.9	3708.9	3733.2
27.5°	3422.3	3424.5	3435.5	3435.5	3446.5	3468.6	3479.6	3501.7	3528.1	3550.2	3578.9
30°	3239.3	3243.6	3243.6	3252.5	3259.1	3270.1	3281.1	3303.2	3316.4	3336.3	3376.0
32.5°	3071.7	3076.1	3073.8	3071.7	3065.1	3062.8	3060.6	3065.1	3069.5	3076.1	3091.5
35°	2972.5	2961.4	2952.6	2937.2	2919.5	2897.5	2877.6	2851.2	2826.9	2807.0	2785.0
37.5°	2877.6	2875.4	2862.2	2840.1	2804.8	2765.2	2718.9	2661.5	2604.2	2542.4	2482.9
40°	2745.3	2738.7	2727.7	2696.8	2657.1	2608.6	2546.9	2476.3	2383.7	2288.9	2191.8
42.5°	2520.4	2522.6	2509.4	2485.1	2447.6	2401.3	2337.4	2260.2	2161.0	2048.5	1922.8
45°	2258.0	2258.0	2253.6	2233.7	2207.3	2169.8	2121.3	2057.3	1960.3	1845.6	1711.1
47.5°	1984.6	1986.8	1980.1	1975.8	1964.7	1940.5	1905.2	1856.7	1788.3	1678.0	1543.5
50°	1706.7	1706.7	1717.8	1715.5	1715.5	1706.7	1691.3	1662.6	1603.1	1514.9	1389.2
52.5°	1428.9	1433.3	1439.9	1448.7	1459.7	1477.4	1459.7	1446.5	1409.0	1340.7	1232.6
55°	1142.2	1146.6	1157.6	1173.1	1186.4	1204.0	1208.4	1208.4	1188.5	1142.2	1060.6
57.5°	897.5	890.8	899.7	912.9	930.6	948.2	961.4	976.8	974.6	943.8	877.6
60°	674.8	677.0	683.6	696.8	710.0	725.5	743.1	756.3	763.0	747.5	705.6
62.5°	491.7	491.7	500.5	513.8	520.4	542.5	553.5	560.1	566.7	564.5	538.0
65°	344.0	348.4	352.8	359.4	366.0	379.2	385.9	399.1	403.5	405.7	385.9
67.5°	242.6	235.9	240.4	244.7	251.4	260.2	273.4	273.4	280.0	280.0	266.8
70°	154.4	154.4	156.6	163.2	167.6	169.8	174.2	178.6	185.2	183.0	183.0
72.5°	103.6	101.4	103.6	105.9	108.1	114.7	114.7	116.9	121.3	123.5	114.7
75°	52.9	55.1	59.5	57.4	63.9	59.5	61.7	68.4	66.1	61.7	61.7
77.5°	44.1	44.1	44.1	41.9	46.3	46.3	44.1	48.5	46.3	46.3	44.1
80°	30.9	33.1	30.9	28.7	30.9	28.7	28.7	28.7	28.7	28.7	26.4
82.5°	24.3	19.9	22.1	19.9	22.1	22.1	19.9	17.6	17.6	19.9	17.6
85°	17.6	13.2	15.4	15.4	13.2	13.2	13.2	13.2	13.2	11.0	11.0
87.5°	11.0	6.6	6.6	6.6	8.8	8.8	8.8	6.6	8.8	8.8	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0
2.5°	4114.7	4112.5	4116.9	4114.7	4114.7	4112.5	4114.7	4112.5	4116.9	4108.0	4110.3
5°	4114.7	4110.3	4112.5	4114.7	4116.9	4112.5	4112.5	4112.5	4116.9	4112.5	4114.7
7.5°	4105.8	4103.6	4110.3	4114.7	4112.5	4110.3	4114.7	4112.5	4116.9	4114.7	4119.1
10°	4088.2	4090.4	4094.8	4101.4	4103.6	4105.8	4110.3	4110.3	4116.9	4108.0	4112.5
12.5°	4061.8	4070.5	4081.6	4086.0	4094.8	4094.8	4099.3	4101.4	4105.8	4103.6	4110.3
15°	4028.7	4039.7	4052.9	4064.0	4075.0	4081.6	4088.2	4090.4	4097.0	4090.4	4092.6
17.5°	3989.0	4002.2	4022.0	4035.3	4052.9	4059.5	4068.3	4072.8	4079.4	4075.0	4077.2
20°	3933.8	3949.3	3971.3	3991.2	4002.2	4017.6	4028.7	4035.3	4039.7	4035.3	4037.5
22.5°	3856.7	3878.7	3907.4	3922.8	3944.9	3958.1	3960.3	3975.7	3986.8	3975.7	3980.2
25°	3766.2	3788.3	3810.4	3843.5	3863.3	3878.7	3894.2	3896.4	3907.4	3905.2	3903.0
27.5°	3616.3	3645.0	3682.5	3708.9	3735.4	3759.7	3777.3	3781.7	3792.7	3788.3	3790.5
30°	3411.2	3442.1	3477.4	3519.3	3556.8	3581.0	3603.1	3618.5	3629.5	3622.9	3620.7
32.5°	3120.2	3151.1	3188.6	3230.4	3274.6	3309.8	3336.3	3356.1	3369.4	3364.9	3353.9
35°	2787.2	2796.0	2820.3	2853.4	2890.8	2928.3	2952.6	2974.6	2990.1	2994.5	2994.5
37.5°	2445.4	2416.8	2399.1	2399.1	2421.2	2436.6	2458.7	2471.9	2496.2	2504.9	2511.6
40°	2114.6	2048.5	1986.8	1940.5	1909.6	1907.4	1907.4	1914.0	1936.1	1964.7	1991.2
42.5°	1819.2	1713.3	1618.5	1532.5	1470.8	1435.5	1420.1	1422.3	1439.9	1466.4	1510.5
45°	1583.2	1450.9	1331.9	1228.2	1144.4	1089.3	1062.9	1060.6	1073.9	1104.7	1153.3
47.5°	1400.2	1259.1	1124.6	1005.5	915.1	855.6	824.7	815.9	824.7	853.3	910.7
50°	1248.1	1102.6	963.6	840.1	743.1	681.4	652.7	641.7	652.7	677.0	734.3
52.5°	1106.9	957.0	826.9	707.8	604.2	551.3	520.4	513.8	520.4	549.0	595.4
55°	943.8	815.9	688.0	568.9	478.5	425.6	401.3	394.7	401.3	427.8	476.3
57.5°	782.8	672.5	560.1	452.0	374.9	328.5	306.5	297.7	313.1	330.7	388.1
60°	632.8	544.7	449.8	355.0	291.1	249.2	231.5	229.3	233.7	255.8	295.5
62.5°	496.2	423.4	348.4	271.2	218.3	200.7	178.6	176.4	180.8	194.0	224.9
65°	357.2	310.9	253.6	198.4	156.6	132.3	123.5	125.7	130.1	138.9	167.6
67.5°	249.2	216.1	176.4	138.9	108.1	97.0	88.2	86.0	88.2	103.6	119.1
70°	167.6	147.7	119.1	105.9	75.0	59.5	61.7	55.1	63.9	63.9	77.2
72.5°	110.2	97.0	79.4	61.7	52.9	41.9	41.9	39.7	44.1	46.3	57.4
75°	57.4	44.1	44.1	30.9	22.1	11.0	19.9	17.6	15.4	17.6	22.1
77.5°	39.7	33.1	30.9	24.3	22.1	17.6	17.6	17.6	17.6	19.9	22.1
80°	24.3	24.3	17.6	15.4	13.2	11.0	13.2	13.2	13.2	13.2	15.4
82.5°	15.4	13.2	13.2	11.0	11.0	8.8	8.8	8.8	8.8	8.8	13.2
85°	13.2	8.8	8.8	6.6	8.8	15.4	6.6	8.8	8.8	8.8	6.6
87.5°	4.4	6.6	6.6	6.6	4.4	2.2	4.4	6.6	6.6	11.0	8.8
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°	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0	4108.0
2.5°	4114.7	4116.9	4116.9	4114.7	4114.7	4110.3	4119.1	4112.5	4114.7	4123.5	4116.9
5°	4119.1	4121.3	4121.3	4119.1	4119.1	4119.1	4121.3	4121.3	4119.1	4116.9	4121.3
7.5°	4127.9	4125.7	4125.7	4121.3	4121.3	4116.9	4121.3	4114.7	4119.1	4114.7	4121.3
10°	4116.9	4119.1	4116.9	4114.7	4114.7	4112.5	4112.5	4105.8	4108.0	4101.4	4105.8
12.5°	4110.3	4108.0	4108.0	4103.6	4099.3	4094.8	4092.6	4086.0	4086.0	4070.5	4077.2
15°	4092.6	4094.8	4088.2	4079.4	4075.0	4064.0	4059.5	4050.7	4041.9	4030.9	4033.1
17.5°	4077.2	4070.5	4061.8	4052.9	4035.3	4026.5	4017.6	4004.4	4000.0	3986.8	3982.4
20°	4030.9	4026.5	4015.5	4000.0	3989.0	3969.1	3960.3	3947.1	3936.0	3922.8	3916.2
22.5°	3971.3	3966.9	3953.7	3938.3	3920.6	3911.8	3903.0	3878.7	3867.7	3854.5	3852.2
25°	3896.4	3889.7	3876.5	3858.9	3850.0	3825.8	3817.0	3799.3	3794.9	3781.7	3779.5
27.5°	3781.7	3772.9	3757.4	3735.4	3720.0	3704.5	3695.7	3682.5	3678.1	3664.8	3662.7
30°	3609.7	3598.7	3567.8	3559.0	3532.5	3517.1	3517.1	3499.4	3501.7	3492.9	3492.9
32.5°	3338.5	3320.8	3296.6	3278.9	3261.3	3252.5	3252.5	3245.9	3250.3	3250.3	3254.7
35°	2979.0	2954.8	2941.5	2930.5	2930.5	2939.3	2965.8	2972.5	2985.7	2996.7	3005.5
37.5°	2518.2	2516.0	2531.4	2544.7	2577.7	2615.2	2661.5	2701.2	2738.7	2765.2	2791.6
40°	2019.8	2075.0	2119.1	2180.8	2231.5	2304.3	2388.1	2456.4	2520.4	2566.7	2615.2
42.5°	1576.6	1647.2	1739.8	1830.2	1920.6	2019.8	2130.1	2224.9	2308.7	2372.7	2423.4
45°	1228.2	1325.2	1437.7	1552.4	1669.2	1792.7	1907.4	2004.4	2092.6	2158.8	2209.5
47.5°	990.1	1095.9	1223.8	1349.5	1481.8	1611.9	1739.8	1823.6	1896.3	1949.3	1995.6
50°	818.1	930.6	1065.1	1208.4	1340.7	1470.8	1581.0	1662.6	1722.2	1768.5	1797.1
52.5°	683.6	802.6	946.0	1089.3	1221.6	1340.7	1439.9	1501.7	1550.2	1583.2	1609.7
55°	564.5	679.2	813.7	948.2	1078.3	1190.7	1272.3	1318.6	1356.1	1376.0	1391.4
57.5°	460.9	566.7	690.2	813.7	926.1	1018.8	1082.7	1129.0	1146.6	1162.1	1159.9
60°	361.7	460.9	573.3	679.2	776.2	851.1	897.5	923.9	937.1	943.8	939.3
62.5°	284.4	374.9	460.9	553.5	624.0	688.0	732.1	732.1	738.7	740.9	747.5
65°	211.7	280.0	355.0	423.4	480.7	522.6	546.9	553.5	562.3	560.1	555.7
67.5°	156.6	207.3	262.4	313.1	352.8	379.2	396.9	412.4	410.2	405.7	403.5
70°	108.1	141.1	189.6	220.5	249.2	275.7	280.0	282.2	284.4	286.7	282.2
72.5°	75.0	99.2	125.7	152.2	169.8	180.8	191.9	194.0	194.0	194.0	191.9
75°	37.5	50.7	75.0	86.0	101.4	105.9	114.7	114.7	121.3	112.4	110.2
77.5°	33.1	39.7	52.9	61.7	68.4	75.0	77.2	83.8	81.6	77.2	79.4
80°	19.9	24.3	33.1	37.5	46.3	48.5	50.7	52.9	50.7	52.9	52.9
82.5°	15.4	17.6	22.1	22.1	28.7	28.7	30.9	30.9	33.1	33.1	33.1
85°	8.8	15.4	13.2	26.4	17.6	17.6	22.1	26.4	22.1	22.1	26.4
87.5°	8.8	8.8	6.6	8.8	8.8	8.8	11.0	13.2	13.2	15.4	13.2
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: P249273

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	4108.0	4108.0	4108.0	4108.0
2.5°	4114.7	4119.1	4112.5	4110.3
5°	4121.3	4121.3	4116.9	4116.9
7.5°	4121.3	4121.3	4114.7	4110.3
10°	4103.6	4103.6	4097.0	4092.6
12.5°	4070.5	4070.5	4068.3	4061.8
15°	4028.7	4028.7	4019.8	4013.2
17.5°	3971.3	3975.7	3964.7	3964.7
20°	3909.6	3907.4	3898.6	3894.2
22.5°	3845.7	3841.2	3839.0	3825.8
25°	3777.3	3772.9	3766.2	3759.7
27.5°	3660.4	3658.2	3651.6	3642.8
30°	3481.8	3479.6	3470.8	3470.8
32.5°	3250.3	3248.1	3239.3	3241.5
35°	3009.9	3018.8	3014.3	3005.5
37.5°	2809.3	2815.9	2820.3	2815.9
40°	2641.7	2661.5	2663.7	2668.2
42.5°	2463.1	2489.5	2498.4	2502.7
45°	2249.2	2273.4	2293.3	2288.9
47.5°	2030.9	2048.5	2066.1	2052.9
50°	1821.4	1832.4	1839.0	1839.0
52.5°	1623.0	1623.0	1620.7	1623.0
55°	1395.8	1395.8	1387.0	1391.4
57.5°	1157.6	1162.1	1155.4	1144.4
60°	937.1	926.1	921.7	915.1
62.5°	729.9	729.9	714.5	734.3
65°	546.9	540.2	533.6	531.4
67.5°	396.9	394.7	388.1	385.9
70°	280.0	271.2	269.0	264.6
72.5°	187.4	187.4	183.0	183.0
75°	114.7	103.6	101.4	103.6
77.5°	79.4	77.2	77.2	75.0
80°	52.9	50.7	55.1	48.5
82.5°	33.1	35.3	33.1	35.3
85°	22.1	26.4	24.3	24.3
87.5°	13.2	13.2	13.2	13.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)