

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: P248508

Luminaire Tested: **LD8B80D010 ER8B80940 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248508
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 ER8B80940 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7619.0 lumens
Efficiency: N/A
Efficacy: 102.4 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

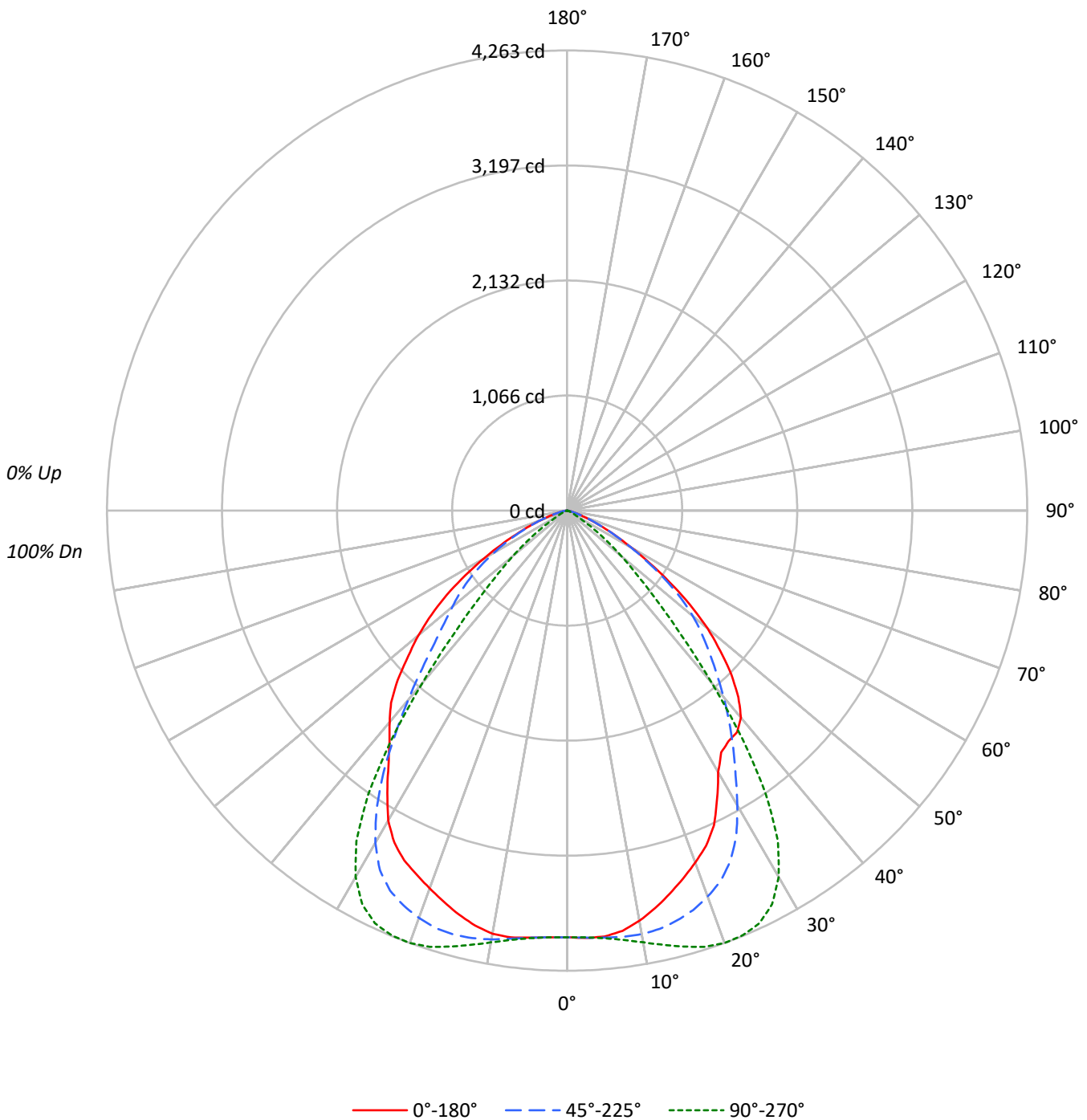
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248508

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248508

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBDW0WH

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°	121881	121881	121881
5°	122606	123061	122931
10°	120805	127177	124681
15°	117273	133481	123703
20°	113869	139892	122198
25°	109496	143473	121633
30°	99649	139539	118026
35°	98165	120909	108588
40°	100832	83857	102941
45°	93869	50683	96795
50°	81419	31297	86250
55°	62482	16354	73202
60°	42566	6599	55246
65°	26479	3364	38117
70°	14371	2083	23261
75°	7494	1001	13749
80°	3356	1119	7441
85°	2229	743	6687



TEST NUMBER: P248508

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.1	5.0
10°-20°	1126.0	14.8
20°-30°	1717.8	22.5
30°-40°	1792.6	23.5
40°-50°	1346.5	17.7
50°-60°	828.5	10.9
60°-70°	337.1	4.4
70°-80°	79.4	1.0
80°-90°	10.9	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°	3224.0	42.3
0°-40°	5016.6	65.8
0°-60°	7191.5	94.4
0°-90°	7619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7619.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3952	3952	3952	3952	3952	
5°	3961	3971	3976	3971	3971	375
15°	3674	3932	4181	4066	3875	1035
25°	3218	3579	4217	3883	3575	1463
35°	2608	2681	3212	2969	2885	1647
45°	2152	1863	1162	1735	2220	1642
55°	1162	1104	304	1104	1362	1045
65°	363	367	46	493	522	378
75°	63	63	8	111	115	76
85°	6	6	2	15	19	9
90°	0	0	0	0	0	



TEST NUMBER: P248508

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5
2.5°	3963.0	3956.7	3963.0	3963.0	3965.1	3960.9	3963.0	3965.1	3960.9	3960.9	3960.9
5°	3960.9	3956.7	3960.9	3958.8	3963.0	3963.0	3967.2	3967.2	3971.4	3971.4	3977.7
7.5°	3927.3	3918.9	3927.3	3933.6	3937.8	3946.2	3956.7	3965.1	3973.5	3981.9	3992.4
10°	3858.1	3858.1	3864.4	3877.0	3889.5	3904.2	3923.1	3944.1	3965.1	3983.9	4002.8
12.5°	3772.1	3765.8	3778.3	3795.1	3814.0	3837.1	3866.5	3898.0	3931.5	3969.3	3998.7
15°	3673.5	3667.2	3681.8	3698.6	3721.7	3755.3	3791.0	3832.9	3881.2	3931.5	3979.8
17.5°	3572.8	3570.7	3585.3	3608.4	3627.3	3663.0	3709.1	3759.5	3814.0	3881.2	3944.1
20°	3470.0	3467.9	3482.6	3501.5	3526.6	3560.2	3606.3	3665.1	3730.1	3805.7	3879.1
22.5°	3363.0	3365.1	3377.6	3398.6	3419.6	3455.3	3503.5	3562.3	3633.6	3715.4	3797.2
25°	3218.2	3207.7	3224.5	3245.5	3281.1	3310.5	3356.7	3419.6	3493.0	3579.1	3675.6
27.5°	3008.4	3006.3	3021.0	3039.9	3071.3	3107.0	3157.4	3222.4	3300.0	3394.4	3488.8
30°	2798.6	2802.8	2809.1	2828.0	2849.0	2884.6	2935.0	2989.6	3063.0	3153.2	3253.9
32.5°	2656.0	2656.0	2664.4	2677.0	2691.6	2710.5	2746.2	2786.0	2842.7	2905.6	2979.0
35°	2607.7	2599.3	2607.7	2609.8	2611.9	2616.1	2622.4	2635.0	2653.9	2681.2	2708.4
37.5°	2586.8	2580.4	2580.4	2572.1	2561.6	2549.0	2532.2	2513.3	2492.4	2465.1	2444.1
40°	2504.9	2500.7	2496.5	2488.1	2465.1	2439.9	2412.6	2368.5	2320.3	2253.1	2186.1
42.5°	2347.6	2343.4	2341.3	2324.5	2303.5	2274.1	2242.7	2196.5	2135.7	2049.7	1953.2
45°	2152.5	2144.1	2137.8	2123.1	2108.4	2083.2	2053.9	2011.9	1951.1	1863.0	1747.6
47.5°	1925.9	1921.7	1919.6	1913.3	1898.6	1883.9	1865.1	1831.5	1776.9	1693.0	1573.5
50°	1697.2	1688.8	1693.0	1691.0	1684.6	1674.2	1661.5	1638.5	1596.5	1521.0	1411.9
52.5°	1435.0	1435.0	1432.9	1439.2	1441.3	1439.2	1441.3	1416.1	1380.4	1323.8	1231.5
55°	1162.2	1162.2	1168.5	1177.0	1185.3	1187.4	1185.3	1174.9	1149.6	1103.5	1021.7
57.5°	906.3	902.1	914.7	927.3	935.7	944.1	937.7	929.4	914.7	876.9	814.0
60°	690.2	690.2	698.6	707.0	715.4	723.8	721.7	719.6	707.0	681.8	631.5
62.5°	507.7	509.8	509.8	516.1	524.5	532.9	539.1	532.9	526.6	509.8	476.2
65°	362.9	360.8	362.9	369.2	375.5	383.9	388.1	386.0	379.7	367.1	342.0
67.5°	243.4	241.3	249.6	251.7	255.9	264.4	262.3	264.4	262.3	251.7	230.8
70°	159.4	155.2	159.4	157.3	163.6	165.8	169.9	172.0	169.9	163.6	157.3
72.5°	98.6	96.5	98.6	100.7	102.8	104.9	109.1	109.1	107.0	102.8	94.4
75°	62.9	56.6	58.7	54.6	58.7	58.7	62.9	65.0	62.9	62.9	58.7
77.5°	37.8	37.8	37.8	37.8	37.8	37.8	37.8	39.9	41.9	37.8	35.7
80°	18.9	18.9	21.0	21.0	21.0	23.1	21.0	21.0	21.0	23.1	16.8
82.5°	14.7	12.6	12.6	12.6	14.7	12.6	12.6	12.6	12.6	12.6	12.6
85°	6.3	8.4	6.3	4.2	6.3	6.3	8.4	6.3	6.3	6.3	8.4
87.5°	2.1	2.1	0.0	0.0	0.0	2.1	0.0	2.1	2.1	4.2	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: P248508

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5
2.5°	3963.0	3958.8	3958.8	3956.7	3960.9	3956.7	3958.8	3956.7	3956.7	3960.9	3956.7
5°	3977.7	3979.8	3975.6	3973.5	3979.8	3979.8	3979.8	3975.6	3975.6	3977.7	3975.6
7.5°	3998.7	4002.8	4004.9	4007.0	4011.2	4013.3	4013.3	4011.2	4009.1	4015.5	4007.0
10°	4021.7	4028.0	4040.6	4046.9	4057.4	4057.4	4061.6	4061.6	4057.4	4061.6	4059.5
12.5°	4013.3	4051.1	4072.1	4086.8	4101.4	4114.0	4118.2	4120.3	4118.2	4126.6	4118.2
15°	4028.0	4059.5	4093.1	4118.2	4145.5	4160.2	4164.4	4181.2	4185.4	4187.5	4174.9
17.5°	4004.9	4061.6	4097.2	4135.0	4174.9	4202.2	4227.3	4237.8	4239.9	4244.1	4227.3
20°	3952.5	4015.5	4070.0	4124.5	4170.7	4212.6	4233.6	4263.0	4254.6	4271.4	4248.3
22.5°	3881.2	3952.5	4021.7	4093.1	4141.3	4191.7	4235.7	4256.7	4267.2	4267.2	4242.0
25°	3767.9	3851.8	3927.3	4000.7	4074.2	4135.0	4185.4	4216.8	4223.1	4221.0	4191.7
27.5°	3591.6	3681.8	3770.0	3853.9	3944.1	4015.5	4074.2	4111.9	4122.4	4122.4	4091.0
30°	3348.3	3444.8	3530.8	3631.5	3723.8	3803.6	3885.4	3918.9	3937.8	3937.8	3902.2
32.5°	3058.8	3140.6	3220.3	3318.9	3419.6	3509.8	3587.4	3633.6	3656.7	3654.6	3623.1
35°	2744.1	2783.9	2844.8	2918.2	3008.4	3092.3	3167.8	3211.9	3251.8	3249.7	3220.3
37.5°	2429.4	2418.9	2425.2	2452.5	2509.1	2567.9	2626.6	2668.6	2702.1	2716.8	2710.5
40°	2121.0	2066.5	2014.0	1995.1	1999.3	2020.3	2051.8	2083.2	2121.0	2139.9	2148.3
42.5°	1844.1	1751.8	1659.4	1590.2	1550.4	1537.8	1552.5	1562.9	1586.0	1613.3	1640.6
45°	1621.7	1497.9	1376.2	1269.3	1202.1	1162.2	1153.9	1162.2	1174.9	1202.1	1237.8
47.5°	1439.2	1294.4	1158.1	1038.5	939.9	887.4	872.8	868.5	881.1	906.3	954.5
50°	1277.6	1132.9	981.8	843.3	740.6	681.8	660.9	652.4	667.1	686.0	730.1
52.5°	1101.4	958.7	803.5	669.2	562.2	501.4	478.3	465.7	474.1	499.3	543.4
55°	910.5	778.3	637.8	499.3	396.5	339.9	312.6	304.2	312.6	339.9	383.9
57.5°	719.6	608.4	490.9	360.8	268.5	211.9	184.6	176.2	199.3	209.8	255.9
60°	562.2	472.1	371.3	264.4	184.6	140.5	113.3	107.0	117.5	136.3	174.1
62.5°	421.7	365.0	285.3	188.8	136.3	90.2	75.5	69.2	75.5	90.2	119.6
65°	306.3	262.3	199.3	138.4	92.3	67.1	50.4	46.1	52.5	62.9	88.1
67.5°	209.8	176.2	138.4	96.5	62.9	41.9	35.7	35.7	37.8	46.1	65.0
70°	136.3	115.4	88.1	62.9	41.9	31.5	27.3	23.1	27.3	33.6	44.0
72.5°	86.0	73.4	56.6	44.0	31.5	23.1	18.9	16.8	21.0	25.2	33.6
75°	52.5	39.9	29.4	23.1	16.8	16.8	16.8	8.4	10.5	16.8	21.0
77.5°	31.5	27.3	23.1	18.9	14.7	8.4	8.4	8.4	10.5	12.6	18.9
80°	16.8	14.7	10.5	10.5	8.4	6.3	8.4	6.3	4.2	10.5	12.6
82.5°	10.5	8.4	8.4	8.4	10.5	4.2	6.3	4.2	6.3	8.4	6.3
85°	6.3	6.3	6.3	4.2	10.5	4.2	4.2	2.1	2.1	4.2	4.2
87.5°	0.0	2.1	2.1	0.0	2.1	0.0	2.1	2.1	2.1	2.1	2.1
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: P248508

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5	3952.5
2.5°	3958.8	3956.7	3958.8	3956.7	3956.7	3956.7	3958.8	3958.8	3956.7	3956.7	3960.9
5°	3975.6	3975.6	3975.6	3973.5	3971.4	3971.4	3975.6	3975.6	3969.3	3975.6	3975.6
7.5°	4011.2	4004.9	4011.2	4002.8	3998.7	4000.7	4002.8	3998.7	3994.5	3996.6	3996.6
10°	4057.4	4051.1	4051.1	4044.8	4038.5	4034.3	4030.1	4019.6	4009.1	4007.0	3998.7
12.5°	4111.9	4101.4	4095.2	4082.5	4072.1	4057.4	4044.8	4028.0	4007.0	3992.4	3977.7
15°	4166.5	4149.7	4135.0	4114.0	4091.0	4065.8	4038.5	4011.2	3977.7	3948.3	3923.1
17.5°	4210.5	4187.5	4160.2	4126.6	4093.1	4055.3	4015.5	3975.6	3927.3	3889.5	3860.2
20°	4225.2	4191.7	4156.0	4111.9	4067.9	4015.5	3965.1	3912.6	3858.1	3818.2	3784.7
22.5°	4206.4	4166.5	4122.4	4076.3	4017.5	3960.9	3902.2	3841.3	3793.0	3738.5	3707.0
25°	4153.9	4105.6	4057.4	4002.8	3946.2	3883.3	3820.3	3757.4	3698.6	3669.3	3629.4
27.5°	4046.9	3994.5	3942.0	3885.4	3820.3	3757.4	3692.4	3631.5	3581.2	3541.3	3518.2
30°	3858.1	3797.2	3736.4	3675.6	3618.9	3553.9	3493.0	3442.7	3392.3	3360.9	3337.8
32.5°	3568.6	3514.0	3453.2	3394.4	3342.0	3287.5	3237.1	3193.1	3157.4	3136.4	3119.6
35°	3178.4	3123.8	3077.7	3035.7	2991.6	2968.6	2937.1	2911.9	2897.2	2888.9	2886.7
37.5°	2687.4	2656.0	2641.3	2632.9	2624.5	2618.2	2622.4	2632.9	2641.3	2656.0	2672.7
40°	2163.0	2190.2	2198.6	2228.0	2255.3	2290.9	2330.8	2377.0	2414.7	2462.9	2496.5
42.5°	1684.6	1735.0	1793.7	1856.7	1923.8	1988.8	2068.6	2142.0	2209.1	2269.9	2322.4
45°	1294.4	1372.0	1460.2	1550.4	1640.6	1735.0	1831.5	1921.7	2001.4	2066.5	2121.0
47.5°	1009.1	1095.1	1208.4	1319.6	1428.7	1539.9	1646.9	1741.3	1808.4	1871.3	1919.6
50°	799.3	897.9	1021.7	1149.6	1269.3	1386.7	1500.0	1588.1	1655.3	1705.6	1741.3
52.5°	618.9	736.4	862.2	996.5	1124.5	1252.5	1357.3	1439.2	1493.7	1537.8	1565.0
55°	461.5	576.9	711.2	849.7	979.7	1103.5	1202.1	1273.5	1321.7	1346.9	1361.6
57.5°	333.6	438.5	572.7	711.2	828.7	946.2	1025.9	1090.9	1118.2	1132.9	1139.2
60°	243.4	339.9	459.4	579.0	690.2	784.6	853.9	897.9	918.9	927.3	925.2
62.5°	178.3	262.3	365.0	465.7	555.9	633.5	688.1	717.5	728.0	732.2	725.9
65°	136.3	201.4	289.5	367.1	436.4	493.0	532.9	551.8	558.0	555.9	551.8
67.5°	100.7	151.1	216.1	274.8	325.2	369.2	390.2	407.0	411.2	404.9	398.6
70°	71.4	111.2	157.3	197.2	235.0	260.2	283.2	285.3	285.3	283.2	279.0
72.5°	50.4	77.6	107.0	134.3	157.3	176.2	184.6	190.9	188.8	186.7	182.5
75°	33.6	48.3	77.6	83.9	104.9	111.2	119.6	119.6	121.7	115.4	115.4
77.5°	21.0	33.6	46.1	54.6	62.9	71.4	75.5	75.5	77.6	75.5	75.5
80°	12.6	21.0	25.2	37.8	37.8	44.0	46.1	48.3	44.0	50.4	44.0
82.5°	8.4	12.6	18.9	18.9	23.1	27.3	27.3	29.4	29.4	27.3	27.3
85°	6.3	8.4	10.5	12.6	12.6	14.7	12.6	12.6	14.7	16.8	14.7
87.5°	2.1	4.2	2.1	4.2	4.2	8.4	6.3	6.3	6.3	8.4	8.4
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: P248508

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3952.5	3952.5	3952.5	3952.5
2.5°	3956.7	3958.8	3956.7	3956.7
5°	3975.6	3973.5	3975.6	3971.4
7.5°	3990.2	3990.2	3988.1	3988.1
10°	3990.2	3981.9	3981.9	3981.9
12.5°	3958.8	3948.3	3942.0	3937.8
15°	3904.2	3885.4	3877.0	3874.9
17.5°	3832.9	3816.1	3805.7	3799.3
20°	3751.1	3734.3	3721.7	3723.8
22.5°	3679.7	3660.9	3652.5	3648.3
25°	3608.4	3585.3	3579.1	3574.9
27.5°	3493.0	3480.5	3474.1	3467.9
30°	3316.8	3310.5	3300.0	3314.7
32.5°	3113.3	3102.8	3094.4	3100.8
35°	2888.9	2882.5	2888.9	2884.6
37.5°	2683.3	2689.5	2697.9	2702.1
40°	2521.7	2544.8	2553.2	2557.3
42.5°	2360.2	2387.4	2404.2	2414.7
45°	2160.9	2188.1	2207.0	2219.6
47.5°	1955.3	1978.4	1997.2	1995.1
50°	1768.6	1781.1	1789.5	1797.9
52.5°	1579.7	1579.7	1581.8	1581.8
55°	1365.8	1361.6	1359.4	1361.6
57.5°	1130.8	1126.6	1124.5	1118.2
60°	916.8	904.2	895.8	895.8
62.5°	717.5	702.8	696.5	694.4
65°	539.1	537.0	524.5	522.4
67.5°	390.2	381.8	373.4	375.5
70°	274.8	262.3	262.3	258.0
72.5°	178.3	172.0	169.9	169.9
75°	111.2	111.2	107.0	115.4
77.5°	73.4	73.4	71.4	73.4
80°	44.0	44.0	44.0	41.9
82.5°	27.3	29.4	27.3	27.3
85°	14.7	16.8	12.6	18.9
87.5°	8.4	10.5	8.4	10.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)