

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: P249579

Luminaire Tested: **LD8B80D010 ER8B80935 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249579
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 ER8B80935 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7157.0 lumens
Efficiency: N/A
Efficacy: 96.2 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

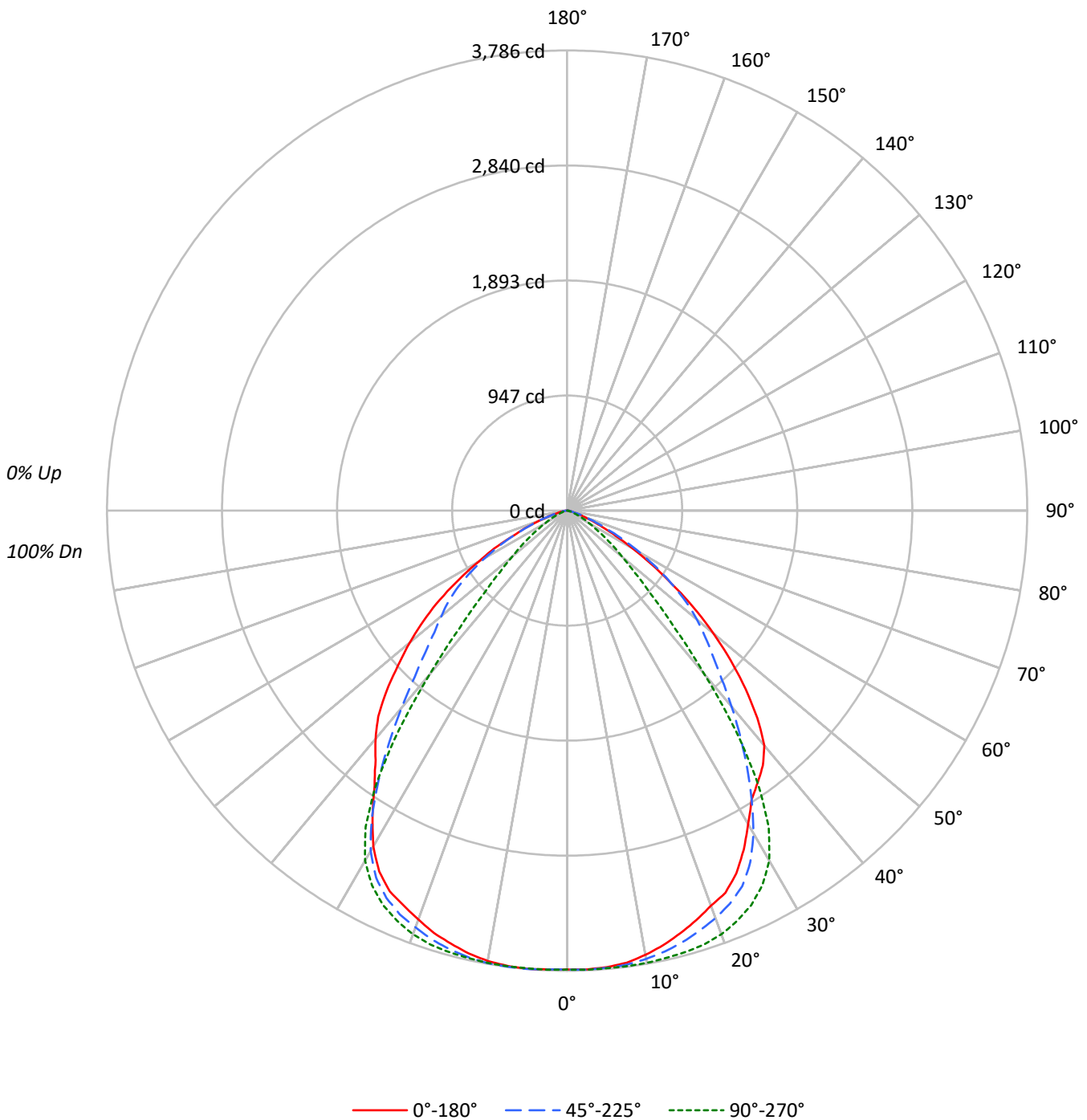
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	116444	116444	116444
5°	116700	117013	117140
10°	116208	118303	117796
15°	114920	120035	117768
20°	113541	121722	117466
25°	112069	121861	117584
30°	106023	118435	113600
35°	102855	102931	104000
40°	101581	70823	98727
45°	90515	42519	91754
50°	75265	28294	81098
55°	56444	19505	68761
60°	38249	13001	51879
65°	23072	8435	35643
70°	12794	4571	21927
75°	5802	1930	11354
80°	5043	2166	7920
85°	5732	2866	7890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	5.0
10°-20°	1046.6	14.6
20°-30°	1588.5	22.2
30°-40°	1668.4	23.3
40°-50°	1250.9	17.5
50°-60°	802.6	11.2
60°-70°	343.3	4.8
70°-80°	81.1	1.1
80°-90°	15.1	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°	2995.5	41.9
0°-40°	4664.0	65.2
0°-60°	6717.5	93.9
0°-90°	7157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7157.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3776	3776	3776	3776	3776	
5°	3770	3776	3780	3786	3784	358
15°	3600	3675	3760	3736	3689	1015
25°	3294	3409	3582	3517	3456	1505
35°	2732	2580	2734	2702	2763	1715
45°	2076	1696	975	1648	2104	1590
55°	1050	1050	363	1094	1279	952
65°	316	373	116	480	488	338
75°	49	57	16	97	95	71
85°	16	10	8	16	22	17
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°	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2
2.5°	3778.2	3782.3	3780.2	3780.2	3778.2	3780.2	3780.2	3784.3	3784.3	3780.2	3778.2
5°	3770.1	3774.1	3774.1	3770.1	3770.1	3780.2	3774.1	3778.2	3778.2	3776.2	3776.2
7.5°	3751.9	3751.9	3760.0	3753.9	3753.9	3760.0	3757.9	3762.0	3766.1	3768.1	3768.1
10°	3711.3	3715.4	3717.4	3717.4	3719.4	3725.5	3729.6	3737.7	3741.7	3745.8	3747.8
12.5°	3660.7	3666.7	3668.7	3666.7	3672.8	3680.9	3691.1	3701.2	3707.3	3715.4	3721.5
15°	3599.8	3599.8	3603.9	3610.0	3614.0	3626.2	3636.3	3648.5	3664.7	3674.8	3685.0
17.5°	3533.0	3537.0	3543.1	3543.1	3551.2	3571.4	3577.5	3595.8	3614.0	3624.2	3644.4
20°	3460.0	3464.0	3470.1	3474.2	3484.3	3500.5	3512.7	3528.9	3549.2	3567.4	3587.7
22.5°	3403.2	3395.1	3399.1	3403.2	3413.4	3427.6	3441.7	3462.0	3482.3	3500.5	3520.8
25°	3293.8	3295.8	3301.9	3305.9	3318.1	3330.3	3346.5	3370.8	3389.0	3409.3	3431.6
27.5°	3145.8	3147.8	3158.0	3158.0	3168.1	3188.4	3198.5	3218.8	3243.1	3263.4	3289.7
30°	2977.6	2981.6	2981.6	2989.7	2995.8	3006.0	3016.1	3036.4	3048.5	3066.8	3103.3
32.5°	2823.5	2827.6	2825.5	2823.5	2817.4	2815.4	2813.4	2817.4	2821.5	2827.6	2841.7
35°	2732.3	2722.2	2714.1	2699.9	2683.7	2663.4	2645.1	2620.8	2598.5	2580.3	2560.0
37.5°	2645.1	2643.1	2631.0	2610.7	2578.2	2541.8	2499.2	2446.5	2393.8	2337.1	2282.3
40°	2523.5	2517.4	2507.3	2478.9	2442.4	2397.9	2341.1	2276.2	2191.1	2104.0	2014.8
42.5°	2316.8	2318.8	2306.7	2284.3	2249.9	2207.3	2148.5	2077.6	1986.4	1883.0	1767.5
45°	2075.6	2075.6	2071.5	2053.3	2029.0	1994.5	1949.9	1891.1	1802.0	1696.5	1572.9
47.5°	1824.2	1826.3	1820.2	1816.1	1806.0	1783.7	1751.3	1706.7	1643.9	1542.5	1418.8
50°	1568.9	1568.9	1579.0	1576.9	1576.9	1568.9	1554.7	1528.3	1473.6	1392.5	1277.0
52.5°	1313.4	1317.5	1323.6	1331.7	1341.8	1358.0	1341.8	1329.7	1295.2	1232.4	1133.1
55°	1049.9	1054.0	1064.1	1078.3	1090.5	1106.7	1110.7	1110.7	1092.5	1049.9	975.0
57.5°	825.0	818.9	827.0	839.2	855.4	871.6	883.7	897.9	895.9	867.5	806.7
60°	620.2	622.3	628.3	640.5	652.7	666.9	683.1	695.2	701.3	687.1	648.6
62.5°	452.0	452.0	460.1	472.3	478.4	498.6	508.8	514.9	520.9	518.9	494.6
65°	316.2	320.2	324.3	330.4	336.5	348.6	354.7	366.9	370.9	373.0	354.7
67.5°	223.0	216.9	220.9	225.0	231.1	239.2	251.4	251.4	257.4	257.4	245.3
70°	141.9	141.9	143.9	150.0	154.0	156.1	160.1	164.2	170.3	168.2	168.2
72.5°	95.3	93.2	95.3	97.3	99.3	105.4	105.4	107.4	111.5	113.5	105.4
75°	48.7	50.7	54.7	52.7	58.8	54.7	56.7	62.8	60.8	56.7	56.7
77.5°	40.5	40.5	40.5	38.5	42.6	42.6	40.5	44.6	42.6	42.6	40.5
80°	28.4	30.4	28.4	26.3	28.4	26.3	26.3	26.3	26.3	26.3	24.3
82.5°	22.3	18.3	20.3	18.3	20.3	20.3	18.3	16.2	16.2	18.3	16.2
85°	16.2	12.2	14.2	14.2	12.2	12.2	12.2	12.2	12.2	10.1	10.1
87.5°	10.1	6.1	6.1	6.1	8.1	8.1	8.1	6.1	8.1	8.1	4.1
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°	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2
2.5°	3782.3	3780.2	3784.3	3782.3	3782.3	3780.2	3782.3	3780.2	3784.3	3776.2	3778.2
5°	3782.3	3778.2	3780.2	3782.3	3784.3	3780.2	3780.2	3780.2	3784.3	3780.2	3782.3
7.5°	3774.1	3772.1	3778.2	3782.3	3780.2	3778.2	3782.3	3780.2	3784.3	3782.3	3786.3
10°	3757.9	3760.0	3764.0	3770.1	3772.1	3774.1	3778.2	3778.2	3784.3	3776.2	3780.2
12.5°	3733.6	3741.7	3751.9	3755.9	3764.0	3764.0	3768.1	3770.1	3774.1	3772.1	3778.2
15°	3703.2	3713.3	3725.5	3735.7	3745.8	3751.9	3757.9	3760.0	3766.1	3760.0	3762.0
17.5°	3666.7	3678.9	3697.1	3709.3	3725.5	3731.6	3739.7	3743.7	3749.8	3745.8	3747.8
20°	3616.0	3630.3	3650.5	3668.7	3678.9	3693.1	3703.2	3709.3	3713.3	3709.3	3711.3
22.5°	3545.1	3565.4	3591.7	3605.9	3626.2	3638.3	3640.4	3654.6	3664.7	3654.6	3658.6
25°	3462.0	3482.3	3502.6	3533.0	3551.2	3565.4	3579.6	3581.6	3591.7	3589.7	3587.7
27.5°	3324.2	3350.5	3385.0	3409.3	3433.6	3455.9	3472.2	3476.2	3486.3	3482.3	3484.3
30°	3135.6	3164.1	3196.5	3235.0	3269.5	3291.7	3312.0	3326.2	3336.3	3330.3	3328.2
32.5°	2868.1	2896.5	2931.0	2969.4	3010.0	3042.4	3066.8	3085.0	3097.2	3093.1	3083.0
35°	2562.1	2570.2	2592.5	2622.9	2657.3	2691.8	2714.1	2734.3	2748.5	2752.6	2752.6
37.5°	2247.9	2221.5	2205.3	2205.3	2225.6	2239.7	2260.0	2272.2	2294.5	2302.6	2308.7
40°	1943.8	1883.0	1826.3	1783.7	1755.3	1753.3	1753.3	1759.4	1779.6	1806.0	1830.3
42.5°	1672.2	1574.9	1487.8	1408.7	1352.0	1319.5	1305.4	1307.4	1323.6	1347.9	1388.4
45°	1455.3	1333.7	1224.3	1129.0	1052.0	1001.3	977.0	975.0	987.1	1015.5	1060.1
47.5°	1287.1	1157.4	1033.7	924.3	841.2	786.4	758.1	750.0	758.1	784.4	837.1
50°	1147.2	1013.5	885.8	772.3	683.1	626.3	600.0	589.8	600.0	622.3	675.0
52.5°	1017.5	879.7	760.1	650.6	555.4	506.7	478.4	472.3	478.4	504.7	547.3
55°	867.5	750.0	632.4	522.9	439.9	391.2	368.9	362.8	368.9	393.2	437.8
57.5°	719.6	618.2	514.9	415.5	344.6	302.0	281.8	273.6	287.8	304.0	356.7
60°	581.7	500.7	413.5	326.3	267.6	229.0	212.8	210.8	214.8	235.1	271.6
62.5°	456.1	389.2	320.2	249.3	200.7	184.4	164.2	162.2	166.2	178.3	206.8
65°	328.4	285.8	233.1	182.4	143.9	121.6	113.5	115.6	119.6	127.7	154.0
67.5°	229.0	198.6	162.2	127.7	99.3	89.2	81.1	79.1	81.1	95.3	109.5
70°	154.0	135.8	109.5	97.3	68.9	54.7	56.7	50.7	58.8	58.8	70.9
72.5°	101.3	89.2	73.0	56.7	48.7	38.5	38.5	36.5	40.5	42.6	52.7
75°	52.7	40.5	40.5	28.4	20.3	10.1	18.3	16.2	14.2	16.2	20.3
77.5°	36.5	30.4	28.4	22.3	20.3	16.2	16.2	16.2	16.2	18.3	20.3
80°	22.3	22.3	16.2	14.2	12.2	10.1	12.2	12.2	12.2	12.2	14.2
82.5°	14.2	12.2	12.2	10.1	10.1	8.1	8.1	8.1	8.1	8.1	12.2
85°	12.2	8.1	8.1	6.1	8.1	14.2	6.1	8.1	8.1	8.1	6.1
87.5°	4.1	6.1	6.1	6.1	4.1	2.0	4.1	6.1	6.1	10.1	8.1
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°	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2
2.5°	3782.3	3784.3	3784.3	3782.3	3782.3	3778.2	3786.3	3780.2	3782.3	3790.4	3784.3
5°	3786.3	3788.3	3788.3	3786.3	3786.3	3786.3	3788.3	3788.3	3786.3	3784.3	3788.3
7.5°	3794.4	3792.4	3792.4	3788.3	3788.3	3784.3	3788.3	3782.3	3786.3	3782.3	3788.3
10°	3784.3	3786.3	3784.3	3782.3	3782.3	3780.2	3780.2	3774.1	3776.2	3770.1	3774.1
12.5°	3778.2	3776.2	3776.2	3772.1	3768.1	3764.0	3762.0	3755.9	3755.9	3741.7	3747.8
15°	3762.0	3764.0	3757.9	3749.8	3745.8	3735.7	3731.6	3723.5	3715.4	3705.3	3707.3
17.5°	3747.8	3741.7	3733.6	3725.5	3709.3	3701.2	3693.1	3680.9	3676.8	3664.7	3660.7
20°	3705.3	3701.2	3691.1	3676.8	3666.7	3648.5	3640.4	3628.2	3618.1	3605.9	3599.8
22.5°	3650.5	3646.4	3634.3	3620.1	3603.9	3595.8	3587.7	3565.4	3555.2	3543.1	3541.0
25°	3581.6	3575.5	3563.4	3547.1	3539.0	3516.7	3508.6	3492.4	3488.4	3476.2	3474.2
27.5°	3476.2	3468.1	3453.9	3433.6	3419.4	3405.2	3397.2	3385.0	3380.9	3368.7	3366.8
30°	3318.1	3307.9	3279.6	3271.5	3247.1	3233.0	3233.0	3216.7	3218.8	3210.7	3210.7
32.5°	3068.8	3052.6	3030.3	3014.0	2997.8	2989.7	2989.7	2983.6	2987.7	2987.7	2991.8
35°	2738.4	2716.1	2703.9	2693.8	2693.8	2701.9	2726.2	2732.3	2744.5	2754.6	2762.7
37.5°	2314.7	2312.7	2326.9	2339.1	2369.5	2404.0	2446.5	2483.0	2517.4	2541.8	2566.1
40°	1856.7	1907.4	1947.9	2004.7	2051.2	2118.1	2195.2	2258.0	2316.8	2359.4	2404.0
42.5°	1449.2	1514.1	1599.3	1682.3	1765.5	1856.7	1958.0	2045.2	2122.2	2181.0	2227.6
45°	1129.0	1218.2	1321.6	1427.0	1534.4	1647.9	1753.3	1842.5	1923.6	1984.4	2031.0
47.5°	910.1	1007.4	1124.9	1240.5	1362.1	1481.7	1599.3	1676.3	1743.1	1791.8	1834.4
50°	752.0	855.4	979.0	1110.7	1232.4	1352.0	1453.3	1528.3	1583.0	1625.6	1651.9
52.5°	628.3	737.8	869.6	1001.3	1122.9	1232.4	1323.6	1380.3	1424.9	1455.3	1479.6
55°	518.9	624.3	748.0	871.6	991.2	1094.5	1169.5	1212.1	1246.5	1264.8	1279.0
57.5°	423.6	520.9	634.4	748.0	851.3	936.5	995.2	1037.8	1054.0	1068.2	1066.2
60°	332.4	423.6	527.0	624.3	713.5	782.4	825.0	849.3	861.4	867.5	863.5
62.5°	261.5	344.6	423.6	508.8	573.6	632.4	673.0	673.0	679.0	681.0	687.1
65°	194.6	257.4	326.3	389.2	441.8	480.4	502.7	508.8	516.9	514.9	510.8
67.5°	143.9	190.5	241.2	287.8	324.3	348.6	364.8	379.1	377.0	373.0	370.9
70°	99.3	129.7	174.3	202.7	229.0	253.4	257.4	259.4	261.5	263.5	259.4
72.5°	68.9	91.2	115.6	139.9	156.1	166.2	176.4	178.3	178.3	178.3	176.4
75°	34.5	46.6	68.9	79.1	93.2	97.3	105.4	105.4	111.5	103.4	101.3
77.5°	30.4	36.5	48.7	56.7	62.8	68.9	70.9	77.0	75.0	70.9	73.0
80°	18.3	22.3	30.4	34.5	42.6	44.6	46.6	48.7	46.6	48.7	48.7
82.5°	14.2	16.2	20.3	20.3	26.3	26.3	28.4	28.4	30.4	30.4	30.4
85°	8.1	14.2	12.2	24.3	16.2	16.2	20.3	24.3	20.3	20.3	24.3
87.5°	8.1	8.1	6.1	8.1	8.1	8.1	10.1	12.2	12.2	14.2	12.2
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: P249579

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3776.2	3776.2	3776.2	3776.2
2.5°	3782.3	3786.3	3780.2	3778.2
5°	3788.3	3788.3	3784.3	3784.3
7.5°	3788.3	3788.3	3782.3	3778.2
10°	3772.1	3772.1	3766.1	3762.0
12.5°	3741.7	3741.7	3739.7	3733.6
15°	3703.2	3703.2	3695.1	3689.0
17.5°	3650.5	3654.6	3644.4	3644.4
20°	3593.8	3591.7	3583.6	3579.6
22.5°	3535.0	3530.9	3528.9	3516.7
25°	3472.2	3468.1	3462.0	3455.9
27.5°	3364.7	3362.7	3356.6	3348.5
30°	3200.5	3198.5	3190.4	3190.4
32.5°	2987.7	2985.7	2977.6	2979.6
35°	2766.8	2774.9	2770.8	2762.7
37.5°	2582.3	2588.4	2592.5	2588.4
40°	2428.3	2446.5	2448.5	2452.6
42.5°	2264.1	2288.4	2296.5	2300.6
45°	2067.5	2089.8	2108.0	2104.0
47.5°	1866.8	1883.0	1899.2	1887.1
50°	1674.3	1684.4	1690.5	1690.5
52.5°	1491.8	1491.8	1489.8	1491.8
55°	1283.0	1283.0	1275.0	1279.0
57.5°	1064.1	1068.2	1062.1	1052.0
60°	861.4	851.3	847.2	841.2
62.5°	670.9	670.9	656.7	675.0
65°	502.7	496.6	490.5	488.5
67.5°	364.8	362.8	356.7	354.7
70°	257.4	249.3	247.3	243.2
72.5°	172.3	172.3	168.2	168.2
75°	105.4	95.3	93.2	95.3
77.5°	73.0	70.9	70.9	68.9
80°	48.7	46.6	50.7	44.6
82.5°	30.4	32.4	30.4	32.4
85°	20.3	24.3	22.3	22.3
87.5°	12.2	12.2	12.2	12.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)