

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: P248390

Luminaire Tested: **LD8B70D010 ER8B70935 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248390
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: LD8B70D010 ER8B70935 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6745.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

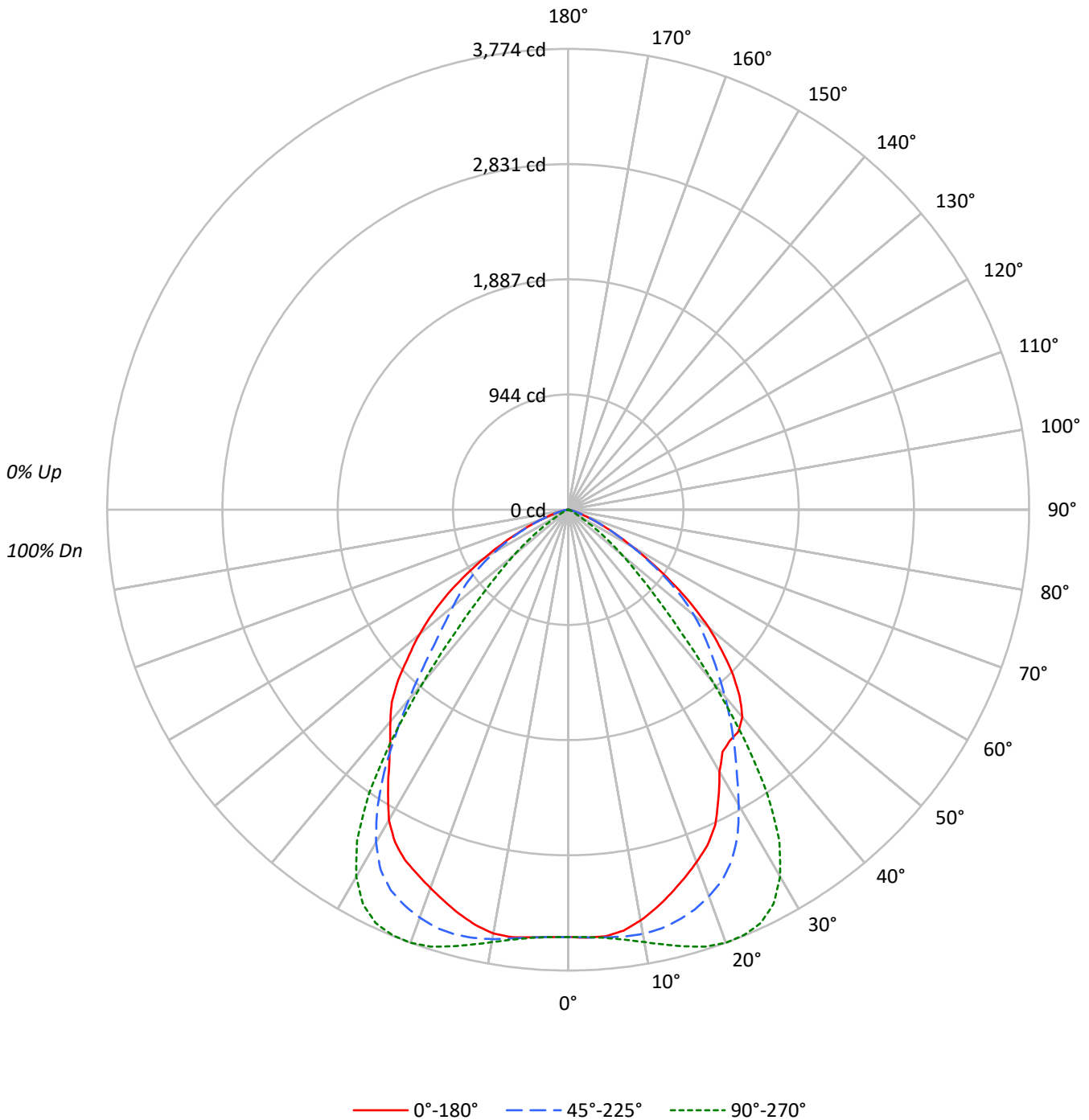
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	107899	107899	107899
5°	108541	108943	108828
10°	106946	112589	110378
15°	103820	118167	109512
20°	100805	123845	108182
25°	96935	127015	107679
30°	88219	123534	104488
35°	86905	107041	96132
40°	89267	74240	91135
45°	83102	44869	85692
50°	72079	27709	76358
55°	55315	14478	64804
60°	37682	5840	48906
65°	23444	2984	33739
70°	12721	1839	20592
75°	6636	882	12176
80°	2966	994	6588
85°	1981	672	5909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	5.0
10°-20°	996.8	14.8
20°-30°	1520.8	22.5
30°-40°	1587.0	23.5
40°-50°	1192.0	17.7
50°-60°	733.4	10.9
60°-70°	298.5	4.4
70°-80°	70.3	1.0
80°-90°	9.7	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°	2854.1	42.3
0°-40°	4441.1	65.8
0°-60°	6366.5	94.4
0°-90°	6745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6745.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3499	3499	3499	3499	3499	
5°	3506	3516	3520	3516	3516	332
15°	3252	3480	3702	3599	3430	916
25°	2849	3168	3733	3438	3165	1295
35°	2309	2374	2844	2628	2554	1458
45°	1906	1649	1029	1536	1965	1454
55°	1029	977	269	977	1205	925
65°	321	325	41	436	462	335
75°	56	56	7	98	102	67
85°	6	6	2	13	17	8
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°	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1
2.5°	3508.4	3502.8	3508.4	3508.4	3510.2	3506.5	3508.4	3510.2	3506.5	3506.5	3506.5
5°	3506.5	3502.8	3506.5	3504.7	3508.4	3508.4	3512.1	3512.1	3515.8	3515.8	3521.4
7.5°	3476.8	3469.4	3476.8	3482.4	3486.1	3493.5	3502.8	3510.2	3517.7	3525.1	3534.4
10°	3415.5	3415.5	3421.1	3432.2	3443.4	3456.4	3473.1	3491.7	3510.2	3526.9	3543.6
12.5°	3339.4	3333.8	3344.9	3359.8	3376.5	3397.0	3422.9	3450.8	3480.5	3513.9	3540.0
15°	3252.1	3246.5	3259.5	3274.3	3294.8	3324.5	3356.1	3393.2	3435.9	3480.5	3523.2
17.5°	3162.9	3161.1	3174.1	3194.5	3211.2	3242.8	3283.7	3328.2	3376.5	3435.9	3491.7
20°	3071.9	3070.1	3083.1	3099.8	3122.1	3151.8	3192.6	3244.6	3302.2	3369.1	3434.1
22.5°	2977.2	2979.0	2990.2	3008.8	3027.4	3058.9	3101.6	3153.6	3216.8	3289.2	3361.6
25°	2849.0	2839.8	2854.6	2873.2	2904.7	2930.7	2971.6	3027.4	3092.3	3168.5	3253.9
27.5°	2663.3	2661.4	2674.5	2691.2	2719.0	2750.6	2795.2	2852.8	2921.5	3005.0	3088.6
30°	2477.6	2481.3	2486.9	2503.6	2522.2	2553.7	2598.3	2646.6	2711.6	2791.5	2880.6
32.5°	2351.3	2351.3	2358.7	2369.9	2382.9	2399.6	2431.2	2466.4	2516.6	2572.3	2637.3
35°	2308.6	2301.2	2308.6	2310.4	2312.3	2316.0	2321.6	2332.7	2349.4	2373.6	2397.7
37.5°	2290.0	2284.4	2284.4	2277.0	2267.7	2256.6	2241.7	2225.0	2206.5	2182.3	2163.7
40°	2217.6	2213.9	2210.1	2202.7	2182.3	2160.0	2135.8	2096.8	2054.1	1994.7	1935.3
42.5°	2078.3	2074.6	2072.7	2057.8	2039.3	2013.3	1985.4	1944.6	1890.7	1814.5	1729.1
45°	1905.6	1898.1	1892.6	1879.6	1866.5	1844.3	1818.3	1781.1	1727.2	1649.3	1547.1
47.5°	1705.0	1701.2	1699.4	1693.8	1680.8	1667.8	1651.1	1621.4	1573.1	1498.8	1393.0
50°	1502.5	1495.1	1498.8	1497.0	1491.4	1482.1	1470.9	1450.5	1413.4	1346.5	1249.9
52.5°	1270.3	1270.3	1268.5	1274.1	1275.9	1274.1	1275.9	1253.7	1222.1	1171.9	1090.2
55°	1028.9	1028.9	1034.5	1041.9	1049.4	1051.2	1049.4	1040.1	1017.8	976.9	904.5
57.5°	802.3	798.6	809.8	820.9	828.4	835.8	830.2	822.8	809.8	776.3	720.6
60°	611.0	611.0	618.5	625.9	633.3	640.8	638.9	637.0	625.9	603.6	559.1
62.5°	449.4	451.3	451.3	456.9	464.3	471.8	477.3	471.8	466.2	451.3	421.6
65°	321.3	319.4	321.3	326.9	332.5	339.9	343.6	341.7	336.2	325.0	302.7
67.5°	215.5	213.6	221.0	222.9	226.6	234.0	232.2	234.0	232.2	222.9	204.3
70°	141.1	137.4	141.1	139.3	144.9	146.7	150.4	152.3	150.4	144.9	139.3
72.5°	87.3	85.4	87.3	89.2	91.0	92.8	96.6	96.6	94.7	91.0	83.6
75°	55.7	50.1	52.0	48.3	52.0	52.0	55.7	57.6	55.7	55.7	52.0
77.5°	33.4	33.4	33.4	33.4	33.4	33.4	33.4	35.3	37.1	33.4	31.6
80°	16.7	16.7	18.6	18.6	18.6	20.4	18.6	18.6	18.6	20.4	14.9
82.5°	13.0	11.1	11.1	11.1	13.0	11.1	11.1	11.1	11.1	11.1	11.1
85°	5.6	7.4	5.6	3.7	5.6	5.6	7.4	5.6	5.6	5.6	7.4
87.5°	1.9	1.9	0.0	0.0	0.0	1.9	0.0	1.9	1.9	3.7	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°	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1
2.5°	3508.4	3504.7	3504.7	3502.8	3506.5	3502.8	3504.7	3502.8	3502.8	3506.5	3502.8
5°	3521.4	3523.2	3519.5	3517.7	3523.2	3523.2	3523.2	3519.5	3519.5	3521.4	3519.5
7.5°	3540.0	3543.6	3545.5	3547.4	3551.1	3553.0	3553.0	3551.1	3549.2	3554.8	3547.4
10°	3560.4	3566.0	3577.1	3582.7	3592.0	3592.0	3595.7	3595.7	3592.0	3595.7	3593.8
12.5°	3553.0	3586.4	3605.0	3617.9	3630.9	3642.1	3645.8	3647.7	3645.8	3653.3	3645.8
15°	3566.0	3593.8	3623.5	3645.8	3669.9	3682.9	3686.7	3701.5	3705.2	3707.1	3696.0
17.5°	3545.5	3595.7	3627.2	3660.7	3696.0	3720.1	3742.4	3751.7	3753.6	3757.2	3742.4
20°	3499.1	3554.8	3603.1	3651.4	3692.3	3729.4	3748.0	3774.0	3766.6	3781.4	3761.0
22.5°	3435.9	3499.1	3560.4	3623.5	3666.3	3710.8	3749.8	3768.4	3777.7	3777.7	3755.4
25°	3335.7	3410.0	3476.8	3541.8	3606.8	3660.7	3705.2	3733.1	3738.7	3736.8	3710.8
27.5°	3179.6	3259.5	3337.5	3411.8	3491.7	3554.8	3606.8	3640.2	3649.5	3649.5	3621.7
30°	2964.2	3049.6	3125.8	3214.9	3296.7	3367.2	3439.7	3469.4	3486.1	3486.1	3454.5
32.5°	2707.9	2780.3	2850.9	2938.2	3027.4	3107.2	3175.9	3216.8	3237.2	3235.4	3207.5
35°	2429.3	2464.6	2518.5	2583.5	2663.3	2737.6	2804.5	2843.5	2878.8	2876.9	2850.9
37.5°	2150.7	2141.4	2147.0	2171.1	2221.3	2273.3	2325.3	2362.5	2392.1	2405.2	2399.6
40°	1877.7	1829.4	1783.0	1766.3	1770.0	1788.5	1816.4	1844.3	1877.7	1894.4	1901.8
42.5°	1632.5	1550.8	1469.1	1407.8	1372.5	1361.4	1374.4	1383.6	1404.1	1428.2	1452.4
45°	1435.7	1326.1	1218.4	1123.7	1064.2	1028.9	1021.5	1028.9	1040.1	1064.2	1095.8
47.5°	1274.1	1145.9	1025.2	919.3	832.0	785.6	772.6	768.9	780.0	802.3	845.0
50°	1131.1	1002.9	869.2	746.6	655.6	603.6	585.0	577.6	590.6	607.3	646.3
52.5°	975.1	848.8	711.3	592.5	497.8	443.9	423.4	412.3	419.7	442.0	481.0
55°	806.0	689.0	564.6	442.0	351.0	300.9	276.7	269.3	276.7	300.9	339.9
57.5°	637.0	538.6	434.6	319.4	237.7	187.6	163.4	156.0	176.5	185.7	226.6
60°	497.8	417.9	328.7	234.0	163.4	124.4	100.3	94.7	104.0	120.7	154.1
62.5°	373.3	323.2	252.6	167.1	120.7	79.8	66.8	61.3	66.8	79.8	105.9
65°	271.2	232.2	176.5	122.6	81.7	59.4	44.6	40.9	46.4	55.7	78.0
67.5°	185.7	156.0	122.6	85.4	55.7	37.1	31.6	31.6	33.4	40.9	57.6
70°	120.7	102.2	78.0	55.7	37.1	27.9	24.1	20.4	24.1	29.7	39.0
72.5°	76.2	65.0	50.1	39.0	27.9	20.4	16.7	14.9	18.6	22.3	29.7
75°	46.4	35.3	26.0	20.4	14.9	14.9	14.9	7.4	9.3	14.9	18.6
77.5°	27.9	24.1	20.4	16.7	13.0	7.4	7.4	7.4	9.3	11.1	16.7
80°	14.9	13.0	9.3	9.3	7.4	5.6	7.4	5.6	3.7	9.3	11.1
82.5°	9.3	7.4	7.4	7.4	9.3	3.7	5.6	3.7	5.6	7.4	5.6
85°	5.6	5.6	5.6	3.7	9.3	3.7	3.7	1.9	1.9	3.7	3.7
87.5°	0.0	1.9	1.9	0.0	1.9	0.0	1.9	1.9	1.9	1.9	1.9
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°	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1
2.5°	3504.7	3502.8	3504.7	3502.8	3502.8	3502.8	3504.7	3504.7	3502.8	3502.8	3506.5
5°	3519.5	3519.5	3519.5	3517.7	3515.8	3515.8	3519.5	3519.5	3513.9	3519.5	3519.5
7.5°	3551.1	3545.5	3551.1	3543.6	3540.0	3541.8	3543.6	3540.0	3536.2	3538.1	3538.1
10°	3592.0	3586.4	3586.4	3580.8	3575.2	3571.5	3567.8	3558.5	3549.2	3547.4	3540.0
12.5°	3640.2	3630.9	3625.4	3614.2	3605.0	3592.0	3580.8	3566.0	3547.4	3534.4	3521.4
15°	3688.5	3673.7	3660.7	3642.1	3621.7	3599.4	3575.2	3551.1	3521.4	3495.4	3473.1
17.5°	3727.5	3707.1	3682.9	3653.3	3623.5	3590.1	3554.8	3519.5	3476.8	3443.4	3417.4
20°	3740.5	3710.8	3679.3	3640.2	3601.2	3554.8	3510.2	3463.8	3415.5	3380.2	3350.5
22.5°	3723.8	3688.5	3649.5	3608.7	3556.6	3506.5	3454.5	3400.6	3357.9	3309.7	3281.8
25°	3677.4	3634.7	3592.0	3543.6	3493.5	3437.8	3382.1	3326.4	3274.3	3248.4	3213.1
27.5°	3582.7	3536.2	3489.8	3439.7	3382.1	3326.4	3268.8	3214.9	3170.4	3135.1	3114.7
30°	3415.5	3361.6	3307.8	3253.9	3203.8	3146.2	3092.3	3047.8	3003.2	2975.3	2954.9
32.5°	3159.2	3110.9	3057.1	3005.0	2958.6	2910.3	2865.8	2826.8	2795.2	2776.6	2761.7
35°	2813.8	2765.5	2724.6	2687.5	2648.4	2628.0	2600.2	2577.9	2564.9	2557.5	2555.6
37.5°	2379.1	2351.3	2338.3	2330.9	2323.4	2317.9	2321.6	2330.9	2338.3	2351.3	2366.1
40°	1914.8	1939.0	1946.4	1972.4	1996.5	2028.1	2063.4	2104.3	2137.7	2180.4	2210.1
42.5°	1491.4	1536.0	1588.0	1643.7	1703.1	1760.7	1831.3	1896.3	1955.7	2009.5	2056.0
45°	1145.9	1214.6	1292.7	1372.5	1452.4	1536.0	1621.4	1701.2	1771.8	1829.4	1877.7
47.5°	893.3	969.5	1069.8	1168.2	1264.8	1363.2	1457.9	1541.5	1601.0	1656.7	1699.4
50°	707.6	794.9	904.5	1017.8	1123.7	1227.6	1327.9	1406.0	1465.4	1510.0	1541.5
52.5°	547.9	651.9	763.3	882.2	995.5	1108.8	1201.6	1274.1	1322.4	1361.4	1385.5
55°	408.6	510.7	629.6	752.2	867.3	976.9	1064.2	1127.4	1170.1	1192.4	1205.4
57.5°	295.3	388.2	507.0	629.6	733.6	837.6	908.2	965.8	989.9	1002.9	1008.5
60°	215.5	300.9	406.7	512.6	611.0	694.6	755.9	794.9	813.5	820.9	819.0
62.5°	157.9	232.2	323.2	412.3	492.2	560.9	609.2	635.2	644.5	648.2	642.6
65°	120.7	178.3	256.3	325.0	386.3	436.4	471.8	488.5	494.0	492.2	488.5
67.5°	89.2	133.7	191.3	243.3	287.9	326.9	345.5	360.3	364.0	358.5	352.9
70°	63.2	98.4	139.3	174.6	208.0	230.3	250.7	252.6	252.6	250.7	247.0
72.5°	44.6	68.7	94.7	118.9	139.3	156.0	163.4	169.0	167.1	165.3	161.6
75°	29.7	42.7	68.7	74.3	92.8	98.4	105.9	105.9	107.7	102.2	102.2
77.5°	18.6	29.7	40.9	48.3	55.7	63.2	66.8	66.8	68.7	66.8	66.8
80°	11.1	18.6	22.3	33.4	33.4	39.0	40.9	42.7	39.0	44.6	39.0
82.5°	7.4	11.1	16.7	16.7	20.4	24.1	24.1	26.0	26.0	24.1	24.1
85°	5.6	7.4	9.3	11.1	11.1	13.0	11.1	11.1	13.0	14.9	13.0
87.5°	1.9	3.7	1.9	3.7	3.7	7.4	5.6	5.6	5.6	7.4	7.4
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: P248390

CATALOG NUMBER: LD8B70D010 ER8B70935 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3499.1	3499.1	3499.1	3499.1
2.5°	3502.8	3504.7	3502.8	3502.8
5°	3519.5	3517.7	3519.5	3515.8
7.5°	3532.5	3532.5	3530.7	3530.7
10°	3532.5	3525.1	3525.1	3525.1
12.5°	3504.7	3495.4	3489.8	3486.1
15°	3456.4	3439.7	3432.2	3430.4
17.5°	3393.2	3378.4	3369.1	3363.5
20°	3320.8	3305.9	3294.8	3296.7
22.5°	3257.6	3240.9	3233.5	3229.8
25°	3194.5	3174.1	3168.5	3164.8
27.5°	3092.3	3081.2	3075.6	3070.1
30°	2936.3	2930.7	2921.5	2934.5
32.5°	2756.2	2746.9	2739.5	2745.1
35°	2557.5	2551.9	2557.5	2553.7
37.5°	2375.5	2381.0	2388.5	2392.1
40°	2232.4	2252.9	2260.3	2264.0
42.5°	2089.4	2113.6	2128.4	2137.7
45°	1913.0	1937.1	1953.8	1965.0
47.5°	1731.0	1751.4	1768.1	1766.3
50°	1565.7	1576.8	1584.2	1591.7
52.5°	1398.5	1398.5	1400.4	1400.4
55°	1209.1	1205.4	1203.5	1205.4
57.5°	1001.0	997.4	995.5	989.9
60°	811.6	800.5	793.0	793.0
62.5°	635.2	622.2	616.6	614.8
65°	477.3	475.4	464.3	462.4
67.5°	345.5	338.0	330.6	332.5
70°	243.3	232.2	232.2	228.4
72.5°	157.9	152.3	150.4	150.4
75°	98.4	98.4	94.7	102.2
77.5°	65.0	65.0	63.2	65.0
80°	39.0	39.0	39.0	37.1
82.5°	24.1	26.0	24.1	24.1
85°	13.0	14.9	11.1	16.7
87.5°	7.4	9.3	7.4	9.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)