

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: P248823

Luminaire Tested: **LD8B80D010 ER8B80935 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80935 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6606.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

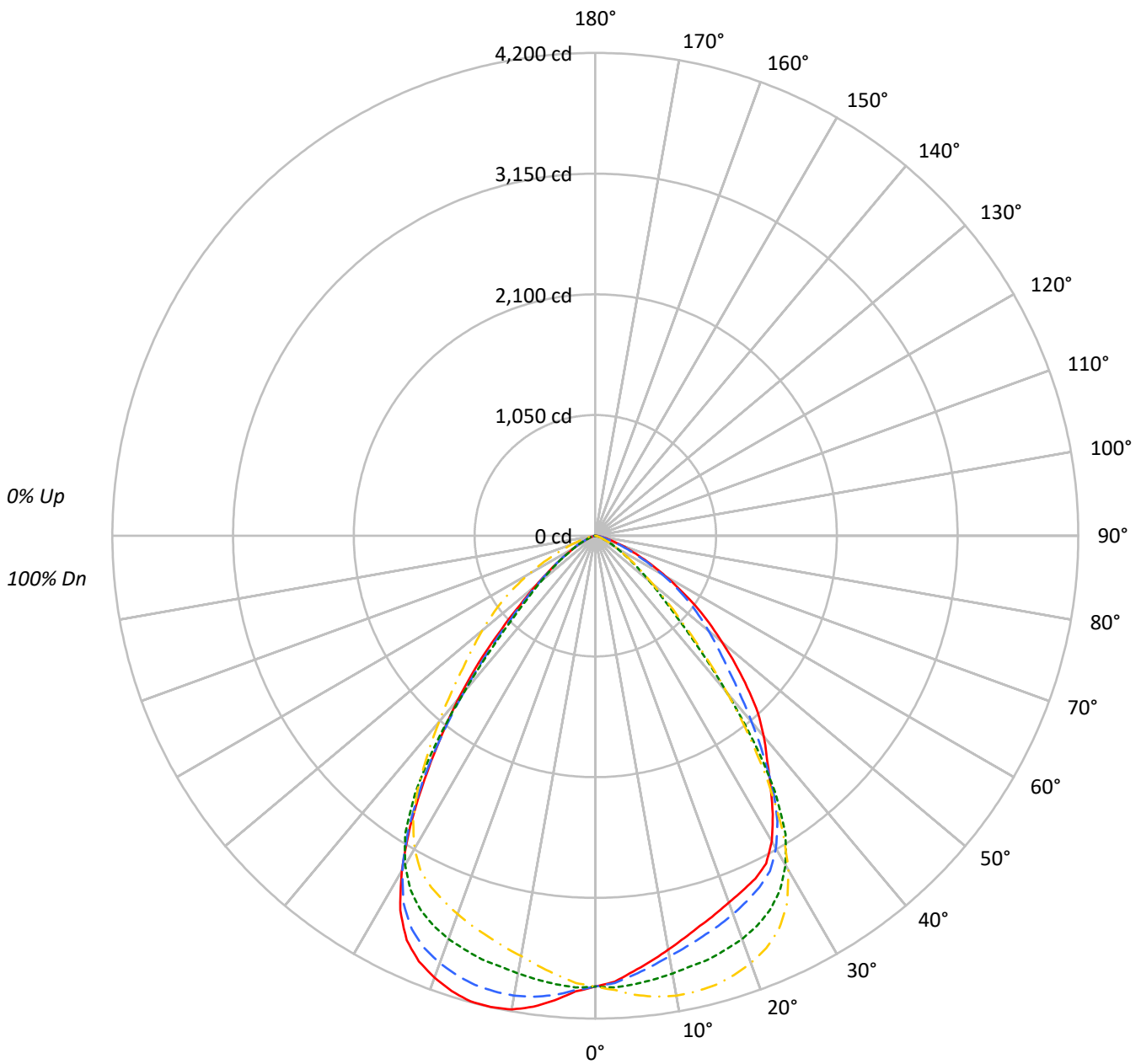
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	120934	120934	120934	120934
5°	117722	121216	125544	121216
10°	114464	121059	131013	121059
15°	112178	121778	133880	121778
20°	111415	122473	134225	122473
25°	112001	122228	132068	122228
30°	109231	117755	119870	117755
35°	99911	102723	97461	102723
40°	91731	71455	74619	71455
45°	81505	43592	50438	43592
50°	68990	29119	32338	29119
55°	57138	19870	20999	19870
60°	43578	13229	13346	13229
65°	30879	8238	7545	8238
70°	22269	5518	5013	5518
75°	14142	2740	2288	2740
80°	9873	2042	1687	2042
85°	8810	0	672	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	5.7
10°-20°	1080.9	16.4
20°-30°	1636.8	24.8
30°-40°	1640.5	24.8
40°-50°	1030.1	15.6
50°-60°	548.9	8.3
60°-70°	225.7	3.4
70°-80°	59.6	0.9
80°-90°	10.1	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°	3091.0	46.8
0°-40°	4731.5	71.6
0°-60°	6310.5	95.5
0°-90°	6606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6606.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3922	3922	3922	3922	3922	
5°	3803	3916	4056	3916	3803	359
15°	3514	3815	4194	3815	3514	994
25°	3292	3592	3882	3592	3292	1510
35°	2654	2729	2589	2729	2654	1663
45°	1869	1000	1157	1000	1869	1437
55°	1063	370	391	370	1063	948
65°	423	113	103	113	423	439
75°	119	23	19	23	119	135
85°	25	0	2	0	25	27
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°	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8
2.5°	3881.6	3877.7	3875.8	3879.7	3881.6	3889.2	3887.3	3891.1	3891.1	3893.1	3896.9
5°	3803.1	3801.1	3803.1	3803.1	3810.7	3818.4	3816.5	3822.2	3826.0	3835.6	3839.4
7.5°	3730.3	3730.3	3728.3	3736.0	3739.9	3751.4	3749.4	3759.0	3764.8	3774.3	3787.7
10°	3655.6	3655.6	3657.5	3663.2	3665.2	3682.4	3682.4	3695.8	3703.4	3713.1	3730.3
12.5°	3582.8	3582.8	3594.4	3590.5	3598.1	3611.5	3617.3	3630.7	3642.2	3661.4	3678.6
15°	3513.9	3513.9	3517.7	3527.3	3533.0	3550.3	3559.8	3575.2	3588.6	3607.8	3632.7
17.5°	3454.5	3452.6	3454.5	3466.0	3477.5	3492.8	3500.5	3519.6	3533.0	3557.9	3581.0
20°	3395.2	3399.0	3399.0	3408.6	3416.2	3435.4	3443.0	3464.1	3479.4	3502.4	3529.2
22.5°	3343.5	3341.6	3341.6	3355.0	3360.7	3377.9	3385.6	3404.7	3422.0	3441.1	3466.0
25°	3291.8	3287.9	3295.6	3297.5	3301.3	3320.5	3326.2	3339.6	3356.9	3374.1	3399.0
27.5°	3215.2	3211.4	3213.3	3220.9	3226.7	3241.9	3245.8	3259.2	3272.6	3287.9	3309.0
30°	3067.7	3063.9	3062.0	3075.4	3081.2	3092.6	3098.3	3121.4	3125.1	3142.4	3157.7
32.5°	2872.4	2870.5	2874.3	2885.8	2891.5	2906.9	2914.5	2927.9	2937.5	2947.1	2962.4
35°	2654.1	2650.2	2654.1	2665.6	2665.6	2679.0	2684.8	2690.4	2688.6	2690.4	2686.7
37.5°	2451.1	2449.2	2451.1	2456.8	2451.1	2456.8	2451.1	2439.6	2418.6	2395.6	2372.6
40°	2278.8	2280.7	2269.2	2276.9	2255.8	2252.0	2230.9	2202.2	2160.1	2114.1	2049.0
42.5°	2095.0	2089.2	2081.6	2085.3	2068.2	2054.7	2020.2	1983.9	1930.2	1853.7	1775.1
45°	1869.0	1867.1	1863.2	1861.3	1849.8	1836.4	1807.7	1765.6	1706.2	1627.7	1533.8
47.5°	1648.8	1643.0	1643.0	1644.9	1631.5	1629.6	1606.6	1570.3	1518.5	1441.9	1344.3
50°	1438.1	1436.2	1440.0	1447.7	1438.1	1434.3	1419.0	1394.1	1348.1	1283.0	1191.1
52.5°	1248.5	1246.6	1250.5	1260.0	1256.2	1260.0	1244.7	1225.6	1194.9	1131.7	1051.3
55°	1062.8	1062.8	1062.8	1074.2	1074.2	1074.2	1066.6	1055.2	1026.4	980.4	905.8
57.5°	869.4	871.3	882.8	884.7	882.8	886.6	884.7	873.2	854.1	821.5	764.1
60°	706.6	706.6	712.4	718.1	716.2	718.1	718.1	712.4	693.2	666.4	620.5
62.5°	559.1	564.9	561.0	564.9	572.5	564.9	561.0	557.3	543.9	526.6	488.3
65°	423.2	427.0	427.0	428.9	425.1	427.0	419.4	413.6	406.0	386.8	361.9
67.5°	321.7	321.7	321.7	321.7	319.8	317.9	316.0	310.2	296.8	289.2	262.3
70°	247.0	235.5	235.5	235.5	235.5	237.5	231.7	224.1	220.2	206.8	187.7
72.5°	164.7	168.5	164.7	164.7	160.9	162.8	155.1	151.3	147.5	139.8	128.3
75°	118.7	109.2	112.9	114.9	109.2	112.9	105.3	97.7	97.7	91.9	86.2
77.5°	76.6	74.7	76.6	78.5	76.6	74.7	70.9	67.0	67.0	65.1	59.4
80°	55.6	53.6	53.6	53.6	51.7	53.6	49.8	49.8	46.0	44.1	40.2
82.5°	36.4	36.4	34.4	36.4	34.4	36.4	30.7	30.7	30.7	28.7	24.9
85°	24.9	21.0	21.0	23.0	19.2	23.0	21.0	19.2	17.3	17.3	15.3
87.5°	11.5	13.4	11.5	13.4	11.5	11.5	13.4	11.5	11.5	7.6	7.6
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°	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8
2.5°	3902.6	3904.5	3904.5	3912.2	3916.0	3917.9	3917.9	3933.3	3927.5	3931.4	3935.2
5°	3847.1	3858.6	3862.4	3862.4	3883.5	3891.1	3898.8	3916.0	3917.9	3929.4	3942.8
7.5°	3793.5	3806.9	3814.6	3831.8	3845.2	3858.6	3881.6	3893.1	3904.5	3919.9	3937.1
10°	3741.7	3757.1	3772.4	3785.8	3806.9	3824.1	3839.4	3866.2	3879.7	3900.7	3923.7
12.5°	3692.0	3713.1	3726.5	3749.4	3772.4	3787.7	3810.7	3835.6	3856.7	3877.7	3904.5
15°	3648.0	3672.9	3688.2	3713.1	3738.0	3759.0	3783.9	3814.6	3829.9	3854.8	3879.7
17.5°	3600.0	3626.9	3646.1	3669.0	3699.7	3722.6	3743.7	3774.3	3793.5	3820.3	3849.0
20°	3550.3	3577.1	3600.0	3623.0	3653.7	3676.6	3701.5	3732.2	3753.3	3780.1	3803.1
22.5°	3490.9	3515.8	3540.7	3567.5	3598.1	3617.3	3646.1	3672.9	3695.8	3720.7	3743.7
25°	3414.3	3445.0	3464.1	3489.0	3513.9	3534.9	3565.6	3592.4	3611.5	3634.6	3655.6
27.5°	3324.3	3347.3	3362.6	3383.7	3408.6	3427.7	3450.7	3477.5	3496.7	3517.7	3533.0
30°	3171.1	3192.2	3205.6	3220.9	3245.8	3263.1	3282.2	3307.1	3320.5	3335.8	3349.2
32.5°	2970.0	2987.3	2994.9	3006.4	3023.7	3040.9	3056.2	3077.3	3083.0	3092.6	3092.6
35°	2679.0	2682.8	2680.9	2684.8	2692.4	2702.0	2715.4	2728.8	2736.4	2736.4	2730.7
37.5°	2338.1	2315.2	2290.3	2271.1	2265.4	2261.5	2269.2	2274.9	2282.6	2286.4	2276.9
40°	1983.9	1932.2	1876.6	1826.8	1792.4	1777.1	1771.3	1775.1	1775.1	1788.5	1788.5
42.5°	1679.4	1598.9	1516.7	1441.9	1392.1	1353.9	1336.6	1336.6	1338.5	1348.1	1353.9
45°	1426.6	1325.1	1229.4	1147.1	1078.1	1028.3	1005.4	999.6	997.7	1001.5	1014.9
47.5°	1233.2	1127.9	1028.3	926.8	854.1	804.3	783.2	775.5	767.9	775.5	777.5
50°	1082.0	972.8	867.5	766.0	689.4	645.3	618.5	607.0	605.1	605.1	609.0
52.5°	944.0	842.6	737.3	633.9	553.4	511.3	486.4	480.6	473.0	480.6	480.6
55°	813.8	712.4	609.0	511.3	444.2	400.2	377.2	369.6	365.7	371.5	371.5
57.5°	672.2	585.9	490.3	402.1	335.1	304.5	287.2	277.7	275.7	279.6	275.7
60°	551.5	478.8	396.4	316.0	264.3	231.7	218.3	214.5	210.6	214.5	214.5
62.5°	436.6	375.3	308.3	247.0	203.0	180.0	164.7	164.7	162.8	162.8	164.7
65°	323.6	275.7	227.9	176.2	141.7	124.5	112.9	112.9	111.1	112.9	111.1
67.5°	235.5	203.0	164.7	128.3	101.5	91.9	84.3	78.5	82.4	78.5	76.6
70°	172.4	145.5	118.7	97.7	78.5	69.0	63.2	61.2	57.5	57.5	57.5
72.5°	114.9	97.7	80.4	63.2	51.7	42.1	40.2	36.4	32.6	34.4	38.3
75°	76.6	65.1	57.5	46.0	34.4	34.4	23.0	23.0	19.2	23.0	17.3
77.5°	53.6	44.1	34.4	28.7	23.0	21.0	15.3	15.3	13.4	13.4	13.4
80°	38.3	32.6	24.9	21.0	15.3	15.3	13.4	11.5	9.5	9.5	11.5
82.5°	23.0	17.3	17.3	15.3	9.5	7.6	5.8	7.6	3.9	3.9	3.9
85°	13.4	11.5	9.5	5.8	3.9	3.9	1.9	0.0	1.9	1.9	0.0
87.5°	7.6	3.9	3.9	1.9	0.0	1.9	1.9	0.0	0.0	0.0	3.9
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°	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8
2.5°	3944.8	3942.8	3946.7	3946.7	3958.2	3956.2	3962.0	3962.0	3958.2	3960.1	3967.7
5°	3958.2	3963.9	3975.4	3985.0	4002.2	4009.9	4019.4	4029.0	4030.9	4036.7	4042.4
7.5°	3958.2	3977.3	3990.7	4007.9	4030.9	4044.3	4065.4	4082.6	4090.3	4099.8	4111.3
10°	3950.5	3969.6	3994.5	4013.7	4042.4	4063.5	4084.5	4111.3	4122.8	4138.1	4153.5
12.5°	3935.2	3956.2	3983.0	4007.9	4040.5	4059.6	4086.4	4111.3	4128.6	4149.6	4166.9
15°	3912.2	3937.1	3962.0	3986.9	4021.3	4044.3	4069.2	4097.9	4115.2	4138.1	4153.5
17.5°	3875.8	3902.6	3925.6	3948.6	3981.1	4007.9	4030.9	4057.7	4075.0	4094.2	4115.2
20°	3831.8	3856.7	3881.6	3900.7	3933.3	3956.2	3981.1	4006.0	4019.4	4023.3	4055.8
22.5°	3776.3	3793.5	3812.6	3843.3	3862.4	3883.5	3906.5	3929.4	3942.8	3963.9	3975.4
25°	3684.3	3701.5	3722.6	3736.0	3759.0	3776.3	3799.2	3824.1	3831.8	3847.1	3858.6
27.5°	3556.0	3565.6	3575.2	3586.6	3600.0	3609.6	3623.0	3634.6	3642.2	3649.8	3657.5
30°	3353.0	3353.0	3353.0	3345.4	3351.1	3356.9	3358.8	3356.9	3356.9	3355.0	3355.0
32.5°	3084.9	3069.6	3052.4	3037.1	3031.3	3023.7	3019.8	3014.1	3004.5	2998.8	3000.7
35°	2723.0	2688.6	2667.5	2648.4	2633.1	2621.6	2615.8	2610.0	2608.2	2600.5	2592.8
37.5°	2271.1	2246.2	2230.9	2219.4	2206.0	2194.5	2196.4	2198.4	2204.0	2200.3	2202.2
40°	1792.4	1786.6	1792.4	1779.0	1775.1	1779.0	1788.5	1802.0	1809.6	1817.3	1830.7
42.5°	1363.4	1373.0	1386.4	1386.4	1392.1	1399.8	1411.3	1432.4	1443.8	1457.2	1472.6
45°	1026.4	1037.9	1055.2	1060.8	1064.7	1074.2	1087.7	1104.9	1112.5	1124.1	1137.5
47.5°	790.9	798.5	808.1	817.7	827.2	831.1	844.5	844.5	854.1	861.7	865.5
50°	616.6	624.3	631.9	637.7	641.5	647.3	651.1	656.8	658.7	662.6	664.5
52.5°	482.5	492.2	492.2	495.9	501.7	507.4	505.6	507.4	509.3	509.3	515.1
55°	377.2	377.2	383.0	383.0	386.8	384.9	386.8	386.8	386.8	386.8	388.7
57.5°	281.5	283.4	289.2	285.3	283.4	287.2	283.4	287.2	285.3	289.2	283.4
60°	216.4	216.4	218.3	218.3	220.2	220.2	220.2	218.3	218.3	216.4	216.4
62.5°	162.8	164.7	166.6	164.7	164.7	164.7	162.8	162.8	160.9	158.9	158.9
65°	109.2	107.3	111.1	107.3	109.2	109.2	107.3	109.2	103.4	105.3	103.4
67.5°	78.5	76.6	74.7	76.6	74.7	72.8	72.8	74.7	76.6	70.9	70.9
70°	51.7	53.6	51.7	53.6	55.6	55.6	53.6	51.7	53.6	49.8	51.7
72.5°	32.6	32.6	32.6	32.6	32.6	34.4	34.4	34.4	30.7	30.7	28.7
75°	15.3	21.0	17.3	15.3	21.0	21.0	19.2	19.2	17.3	17.3	17.3
77.5°	15.3	11.5	11.5	11.5	11.5	11.5	11.5	11.5	9.5	11.5	9.5
80°	7.6	7.6	7.6	5.8	7.6	7.6	9.5	7.6	7.6	5.8	9.5
82.5°	3.9	3.9	3.9	0.0	1.9	3.9	3.9	1.9	3.9	3.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P248823

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8
2.5°	3965.8	3963.9	3965.8	3967.7	3965.8	3963.9	3965.8	3967.7	3960.1	3958.2	3962.0
5°	4050.1	4050.1	4053.9	4055.8	4053.9	4050.1	4050.1	4042.4	4036.7	4030.9	4029.0
7.5°	4122.8	4126.7	4130.5	4132.4	4130.5	4126.7	4122.8	4111.3	4099.8	4090.3	4082.6
10°	4166.9	4172.7	4180.3	4184.1	4180.3	4172.7	4166.9	4153.5	4138.1	4122.8	4111.3
12.5°	4186.1	4191.8	4201.3	4199.5	4201.3	4191.8	4186.1	4166.9	4149.6	4128.6	4111.3
15°	4172.7	4180.3	4189.8	4193.7	4189.8	4180.3	4172.7	4153.5	4138.1	4115.2	4097.9
17.5°	4130.5	4142.0	4147.8	4153.5	4147.8	4142.0	4130.5	4115.2	4094.2	4075.0	4057.7
20°	4073.0	4080.8	4088.4	4090.3	4088.4	4080.8	4073.0	4055.8	4023.3	4019.4	4006.0
22.5°	3990.7	3996.5	4013.7	4007.9	4013.7	3996.5	3990.7	3975.4	3963.9	3942.8	3929.4
25°	3872.0	3877.7	3879.7	3881.6	3879.7	3877.7	3872.0	3858.6	3847.1	3831.8	3824.1
27.5°	3667.1	3667.1	3670.9	3672.9	3670.9	3667.1	3667.1	3657.5	3649.8	3642.2	3634.6
30°	3356.9	3356.9	3356.9	3366.5	3356.9	3356.9	3356.9	3355.0	3355.0	3356.9	3356.9
32.5°	2998.8	2994.9	2991.1	2994.9	2991.1	2994.9	2998.8	3000.7	2998.8	3004.5	3014.1
35°	2592.8	2590.9	2596.6	2589.0	2596.6	2590.9	2592.8	2592.8	2600.5	2608.2	2610.0
37.5°	2204.0	2200.3	2207.9	2200.3	2207.9	2200.3	2204.0	2202.2	2200.3	2204.0	2198.4
40°	1834.5	1838.3	1838.3	1853.7	1838.3	1838.3	1834.5	1830.7	1817.3	1809.6	1802.0
42.5°	1480.2	1491.7	1487.9	1499.4	1487.9	1491.7	1480.2	1472.6	1457.2	1443.8	1432.4
45°	1145.1	1152.8	1152.8	1156.6	1152.8	1152.8	1145.1	1137.5	1124.1	1112.5	1104.9
47.5°	878.9	878.9	878.9	880.9	878.9	878.9	878.9	865.5	861.7	854.1	844.5
50°	668.3	670.2	672.2	674.1	672.2	670.2	668.3	664.5	662.6	658.7	656.8
52.5°	513.2	515.1	511.3	515.1	511.3	515.1	513.2	515.1	509.3	509.3	507.4
55°	388.7	386.8	388.7	390.6	388.7	386.8	388.7	388.7	386.8	386.8	386.8
57.5°	285.3	281.5	281.5	281.5	281.5	281.5	285.3	283.4	289.2	285.3	287.2
60°	212.6	214.5	214.5	216.4	214.5	214.5	212.6	216.4	216.4	218.3	218.3
62.5°	157.0	162.8	158.9	162.8	158.9	162.8	157.0	158.9	158.9	160.9	162.8
65°	101.5	101.5	101.5	103.4	101.5	101.5	101.5	103.4	105.3	103.4	109.2
67.5°	69.0	70.9	74.7	72.8	74.7	70.9	69.0	70.9	70.9	76.6	74.7
70°	55.6	49.8	49.8	55.6	49.8	49.8	55.6	51.7	49.8	53.6	51.7
72.5°	32.6	28.7	32.6	32.6	32.6	28.7	32.6	28.7	30.7	30.7	34.4
75°	17.3	15.3	13.4	19.2	13.4	15.3	17.3	17.3	17.3	17.3	19.2
77.5°	11.5	9.5	13.4	13.4	13.4	9.5	11.5	9.5	11.5	9.5	11.5
80°	5.8	7.6	5.8	9.5	5.8	7.6	5.8	9.5	5.8	7.6	7.6
82.5°	1.9	3.9	3.9	3.9	3.9	3.9	1.9	1.9	3.9	3.9	1.9
85°	0.0	3.9	1.9	1.9	1.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.0	0.0	1.9	0.0	0.0	1.9	0.0	0.0	0.0	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: P248823

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8
2.5°	3962.0	3956.2	3958.2	3946.7	3946.7	3942.8	3944.8	3935.2	3931.4	3927.5	3933.3
5°	4019.4	4009.9	4002.2	3985.0	3975.4	3963.9	3958.2	3942.8	3929.4	3917.9	3916.0
7.5°	4065.4	4044.3	4030.9	4007.9	3990.7	3977.3	3958.2	3937.1	3919.9	3904.5	3893.1
10°	4084.5	4063.5	4042.4	4013.7	3994.5	3969.6	3950.5	3923.7	3900.7	3879.7	3866.2
12.5°	4086.4	4059.6	4040.5	4007.9	3983.0	3956.2	3935.2	3904.5	3877.7	3856.7	3835.6
15°	4069.2	4044.3	4021.3	3986.9	3962.0	3937.1	3912.2	3879.7	3854.8	3829.9	3814.6
17.5°	4030.9	4007.9	3981.1	3948.6	3925.6	3902.6	3875.8	3849.0	3820.3	3793.5	3774.3
20°	3981.1	3956.2	3933.3	3900.7	3881.6	3856.7	3831.8	3803.1	3780.1	3753.3	3732.2
22.5°	3906.5	3883.5	3862.4	3843.3	3812.6	3793.5	3776.3	3743.7	3720.7	3695.8	3672.9
25°	3799.2	3776.3	3759.0	3736.0	3722.6	3701.5	3684.3	3655.6	3634.6	3611.5	3592.4
27.5°	3623.0	3609.6	3600.0	3586.6	3575.2	3565.6	3556.0	3533.0	3517.7	3496.7	3477.5
30°	3358.8	3356.9	3351.1	3345.4	3353.0	3353.0	3353.0	3349.2	3335.8	3320.5	3307.1
32.5°	3019.8	3023.7	3031.3	3037.1	3052.4	3069.6	3084.9	3092.6	3092.6	3083.0	3077.3
35°	2615.8	2621.6	2633.1	2648.4	2667.5	2688.6	2723.0	2730.7	2736.4	2736.4	2728.8
37.5°	2196.4	2194.5	2206.0	2219.4	2230.9	2246.2	2271.1	2276.9	2286.4	2282.6	2274.9
40°	1788.5	1779.0	1775.1	1779.0	1792.4	1786.6	1792.4	1788.5	1788.5	1775.1	1775.1
42.5°	1411.3	1399.8	1392.1	1386.4	1386.4	1373.0	1363.4	1353.9	1348.1	1338.5	1336.6
45°	1087.7	1074.2	1064.7	1060.8	1055.2	1037.9	1026.4	1014.9	1001.5	997.7	999.6
47.5°	844.5	831.1	827.2	817.7	808.1	798.5	790.9	777.5	775.5	767.9	775.5
50°	651.1	647.3	641.5	637.7	631.9	624.3	616.6	609.0	605.1	605.1	607.0
52.5°	505.6	507.4	501.7	495.9	492.2	492.2	482.5	480.6	480.6	473.0	480.6
55°	386.8	384.9	386.8	383.0	383.0	377.2	377.2	371.5	371.5	365.7	369.6
57.5°	283.4	287.2	283.4	285.3	289.2	283.4	281.5	275.7	279.6	275.7	277.7
60°	220.2	220.2	220.2	218.3	218.3	216.4	216.4	214.5	214.5	210.6	214.5
62.5°	162.8	164.7	164.7	164.7	166.6	164.7	162.8	164.7	162.8	162.8	164.7
65°	107.3	109.2	109.2	107.3	111.1	107.3	109.2	111.1	112.9	111.1	112.9
67.5°	72.8	72.8	74.7	76.6	74.7	76.6	78.5	76.6	78.5	82.4	78.5
70°	53.6	55.6	55.6	53.6	51.7	53.6	51.7	57.5	57.5	57.5	61.2
72.5°	34.4	34.4	32.6	32.6	32.6	32.6	32.6	38.3	34.4	32.6	36.4
75°	19.2	21.0	21.0	15.3	17.3	21.0	15.3	17.3	23.0	19.2	23.0
77.5°	11.5	11.5	11.5	11.5	11.5	11.5	15.3	13.4	13.4	13.4	15.3
80°	9.5	7.6	7.6	5.8	7.6	7.6	7.6	11.5	9.5	9.5	11.5
82.5°	3.9	3.9	1.9	0.0	3.9	3.9	3.9	3.9	3.9	3.9	7.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	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: P248823

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8
2.5°	3917.9	3917.9	3916.0	3912.2	3904.5	3904.5	3902.6	3896.9	3893.1	3891.1	3891.1
5°	3898.8	3891.1	3883.5	3862.4	3862.4	3858.6	3847.1	3839.4	3835.6	3826.0	3822.2
7.5°	3881.6	3858.6	3845.2	3831.8	3814.6	3806.9	3793.5	3787.7	3774.3	3764.8	3759.0
10°	3839.4	3824.1	3806.9	3785.8	3772.4	3757.1	3741.7	3730.3	3713.1	3703.4	3695.8
12.5°	3810.7	3787.7	3772.4	3749.4	3726.5	3713.1	3692.0	3678.6	3661.4	3642.2	3630.7
15°	3783.9	3759.0	3738.0	3713.1	3688.2	3672.9	3648.0	3632.7	3607.8	3588.6	3575.2
17.5°	3743.7	3722.6	3699.7	3669.0	3646.1	3626.9	3600.0	3581.0	3557.9	3533.0	3519.6
20°	3701.5	3676.6	3653.7	3623.0	3600.0	3577.1	3550.3	3529.2	3502.4	3479.4	3464.1
22.5°	3646.1	3617.3	3598.1	3567.5	3540.7	3515.8	3490.9	3466.0	3441.1	3422.0	3404.7
25°	3565.6	3534.9	3513.9	3489.0	3464.1	3445.0	3414.3	3399.0	3374.1	3356.9	3339.6
27.5°	3450.7	3427.7	3408.6	3383.7	3362.6	3347.3	3324.3	3309.0	3287.9	3272.6	3259.2
30°	3282.2	3263.1	3245.8	3220.9	3205.6	3192.2	3171.1	3157.7	3142.4	3125.1	3121.4
32.5°	3056.2	3040.9	3023.7	3006.4	2994.9	2987.3	2970.0	2962.4	2947.1	2937.5	2927.9
35°	2715.4	2702.0	2692.4	2684.8	2680.9	2682.8	2679.0	2686.7	2690.4	2688.6	2690.4
37.5°	2269.2	2261.5	2265.4	2271.1	2290.3	2315.2	2338.1	2372.6	2395.6	2418.6	2439.6
40°	1771.3	1777.1	1792.4	1826.8	1876.6	1932.2	1983.9	2049.0	2114.1	2160.1	2202.2
42.5°	1336.6	1353.9	1392.1	1441.9	1516.7	1598.9	1679.4	1775.1	1853.7	1930.2	1983.9
45°	1005.4	1028.3	1078.1	1147.1	1229.4	1325.1	1426.6	1533.8	1627.7	1706.2	1765.6
47.5°	783.2	804.3	854.1	926.8	1028.3	1127.9	1233.2	1344.3	1441.9	1518.5	1570.3
50°	618.5	645.3	689.4	766.0	867.5	972.8	1082.0	1191.1	1283.0	1348.1	1394.1
52.5°	486.4	511.3	553.4	633.9	737.3	842.6	944.0	1051.3	1131.7	1194.9	1225.6
55°	377.2	400.2	444.2	511.3	609.0	712.4	813.8	905.8	980.4	1026.4	1055.2
57.5°	287.2	304.5	335.1	402.1	490.3	585.9	672.2	764.1	821.5	854.1	873.2
60°	218.3	231.7	264.3	316.0	396.4	478.8	551.5	620.5	666.4	693.2	712.4
62.5°	164.7	180.0	203.0	247.0	308.3	375.3	436.6	488.3	526.6	543.9	557.3
65°	112.9	124.5	141.7	176.2	227.9	275.7	323.6	361.9	386.8	406.0	413.6
67.5°	84.3	91.9	101.5	128.3	164.7	203.0	235.5	262.3	289.2	296.8	310.2
70°	63.2	69.0	78.5	97.7	118.7	145.5	172.4	187.7	206.8	220.2	224.1
72.5°	40.2	42.1	51.7	63.2	80.4	97.7	114.9	128.3	139.8	147.5	151.3
75°	23.0	34.4	34.4	46.0	57.5	65.1	76.6	86.2	91.9	97.7	97.7
77.5°	15.3	21.0	23.0	28.7	34.4	44.1	53.6	59.4	65.1	67.0	67.0
80°	13.4	15.3	15.3	21.0	24.9	32.6	38.3	40.2	44.1	46.0	49.8
82.5°	5.8	7.6	9.5	15.3	17.3	17.3	23.0	24.9	28.7	30.7	30.7
85°	1.9	3.9	3.9	5.8	9.5	11.5	13.4	15.3	17.3	17.3	19.2
87.5°	1.9	1.9	0.0	1.9	3.9	3.9	7.6	7.6	7.6	11.5	11.5
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: P248823

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8	3921.8
2.5°	3887.3	3889.2	3881.6	3879.7	3875.8	3877.7	3881.6
5°	3816.5	3818.4	3810.7	3803.1	3803.1	3801.1	3803.1
7.5°	3749.4	3751.4	3739.9	3736.0	3728.3	3730.3	3730.3
10°	3682.4	3682.4	3665.2	3663.2	3657.5	3655.6	3655.6
12.5°	3617.3	3611.5	3598.1	3590.5	3594.4	3582.8	3582.8
15°	3559.8	3550.3	3533.0	3527.3	3517.7	3513.9	3513.9
17.5°	3500.5	3492.8	3477.5	3466.0	3454.5	3452.6	3454.5
20°	3443.0	3435.4	3416.2	3408.6	3399.0	3399.0	3395.2
22.5°	3385.6	3377.9	3360.7	3355.0	3341.6	3341.6	3343.5
25°	3326.2	3320.5	3301.3	3297.5	3295.6	3287.9	3291.8
27.5°	3245.8	3241.9	3226.7	3220.9	3213.3	3211.4	3215.2
30°	3098.3	3092.6	3081.2	3075.4	3062.0	3063.9	3067.7
32.5°	2914.5	2906.9	2891.5	2885.8	2874.3	2870.5	2872.4
35°	2684.8	2679.0	2665.6	2665.6	2654.1	2650.2	2654.1
37.5°	2451.1	2456.8	2451.1	2456.8	2451.1	2449.2	2451.1
40°	2230.9	2252.0	2255.8	2276.9	2269.2	2280.7	2278.8
42.5°	2020.2	2054.7	2068.2	2085.3	2081.6	2089.2	2095.0
45°	1807.7	1836.4	1849.8	1861.3	1863.2	1867.1	1869.0
47.5°	1606.6	1629.6	1631.5	1644.9	1643.0	1643.0	1648.8
50°	1419.0	1434.3	1438.1	1447.7	1440.0	1436.2	1438.1
52.5°	1244.7	1260.0	1256.2	1260.0	1250.5	1246.6	1248.5
55°	1066.6	1074.2	1074.2	1074.2	1062.8	1062.8	1062.8
57.5°	884.7	886.6	882.8	884.7	882.8	871.3	869.4
60°	718.1	718.1	716.2	718.1	712.4	706.6	706.6
62.5°	561.0	564.9	572.5	564.9	561.0	564.9	559.1
65°	419.4	427.0	425.1	428.9	427.0	427.0	423.2
67.5°	316.0	317.9	319.8	321.7	321.7	321.7	321.7
70°	231.7	237.5	235.5	235.5	235.5	235.5	247.0
72.5°	155.1	162.8	160.9	164.7	164.7	168.5	164.7
75°	105.3	112.9	109.2	114.9	112.9	109.2	118.7
77.5°	70.9	74.7	76.6	78.5	76.6	74.7	76.6
80°	49.8	53.6	51.7	53.6	53.6	53.6	55.6
82.5°	30.7	36.4	34.4	36.4	34.4	36.4	36.4
85°	21.0	23.0	19.2	23.0	21.0	21.0	24.9
87.5°	13.4	11.5	11.5	13.4	11.5	13.4	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)