

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: P248723

Luminaire Tested: **LD8B70D010 ER8B70940 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248723
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: LD8B70D010 ER8B70940 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6647.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

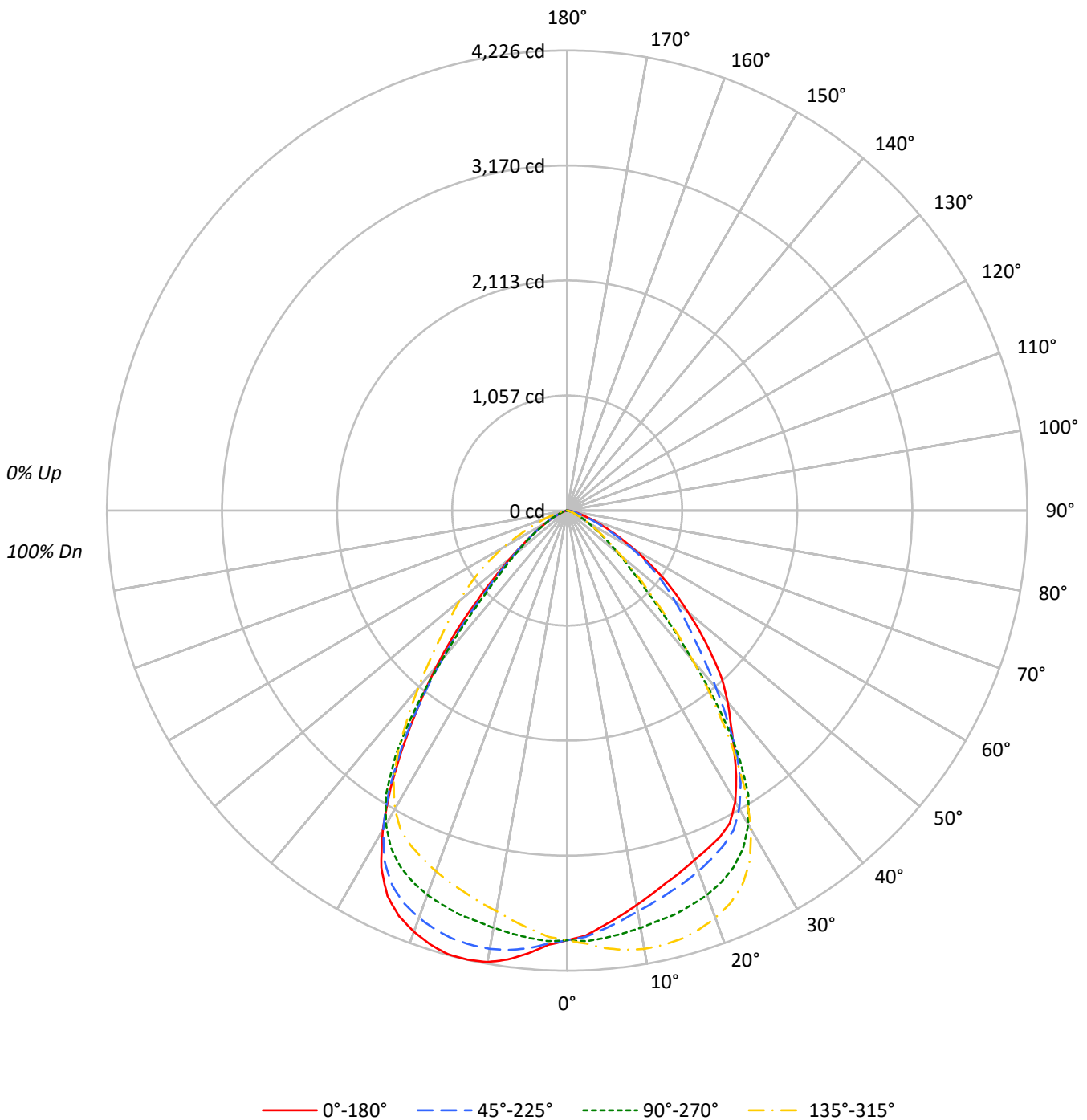
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	121683	121683	121683	121683
5°	118452	121968	126324	121968
10°	115175	121810	131827	121810
15°	112874	122534	134710	122534
20°	112104	123235	135058	123235
25°	112695	122987	132888	122987
30°	109907	118485	120614	118485
35°	100533	103360	98067	103360
40°	92298	71898	75082	71898
45°	82011	43862	50752	43862
50°	69417	29302	32540	29302
55°	57493	19994	21134	19994
60°	43849	13309	13426	13309
65°	31068	8296	7596	8296
70°	22414	5554	5040	5554
75°	14226	2764	2299	2764
80°	9927	2060	1705	2060
85°	8881	0	672	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	5.7
10°-20°	1087.7	16.4
20°-30°	1646.9	24.8
30°-40°	1650.6	24.8
40°-50°	1036.5	15.6
50°-60°	552.4	8.3
60°-70°	227.1	3.4
70°-80°	60.0	0.9
80°-90°	10.2	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°	3110.2	46.8
0°-40°	4760.8	71.6
0°-60°	6349.7	95.5
0°-90°	6647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6647.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3946	3946	3946	3946	3946	
5°	3827	3940	4081	3940	3827	361
15°	3536	3838	4220	3838	3536	1000
25°	3312	3615	3906	3615	3312	1519
35°	2671	2746	2605	2746	2671	1673
45°	1881	1006	1164	1006	1881	1446
55°	1069	372	393	372	1069	953
65°	426	114	104	114	426	442
75°	119	23	19	23	119	135
85°	25	0	2	0	25	28
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°	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1
2.5°	3905.7	3901.8	3899.9	3903.8	3905.7	3913.4	3911.5	3915.3	3915.3	3917.2	3921.1
5°	3826.7	3824.7	3826.7	3826.7	3834.4	3842.1	3840.2	3845.9	3849.8	3859.4	3863.2
7.5°	3753.5	3753.5	3751.5	3759.2	3763.1	3774.6	3772.7	3782.3	3788.1	3797.7	3811.2
10°	3678.3	3678.3	3680.2	3686.0	3688.0	3705.3	3705.3	3718.7	3726.4	3736.1	3753.5
12.5°	3605.1	3605.1	3616.7	3612.8	3620.5	3634.0	3639.7	3653.2	3664.8	3684.1	3701.4
15°	3535.7	3535.7	3539.6	3549.2	3555.0	3572.3	3581.9	3597.4	3610.9	3630.1	3655.2
17.5°	3476.0	3474.1	3476.0	3487.5	3499.1	3514.5	3522.2	3541.5	3555.0	3580.0	3603.2
20°	3416.2	3420.1	3420.1	3429.7	3437.4	3456.7	3464.4	3485.6	3501.0	3524.1	3551.2
22.5°	3364.2	3362.3	3362.3	3375.8	3381.6	3398.9	3406.6	3425.8	3443.2	3462.5	3487.5
25°	3312.2	3308.3	3316.1	3318.0	3321.8	3341.1	3346.9	3360.3	3377.7	3395.1	3420.1
27.5°	3235.1	3231.3	3233.2	3240.9	3246.7	3262.1	3266.0	3279.4	3292.9	3308.3	3329.6
30°	3086.7	3082.9	3081.0	3094.5	3100.3	3111.8	3117.6	3140.7	3144.5	3161.9	3177.3
32.5°	2890.2	2888.3	2892.2	2903.7	2909.5	2924.9	2932.6	2946.1	2955.7	2965.4	2980.8
35°	2670.6	2666.7	2670.6	2682.2	2682.2	2695.6	2701.4	2707.1	2705.2	2707.1	2703.3
37.5°	2466.4	2464.4	2466.4	2472.1	2466.4	2472.1	2466.4	2454.8	2433.6	2410.4	2387.3
40°	2292.9	2294.8	2283.3	2291.0	2269.8	2265.9	2244.8	2215.8	2173.5	2127.2	2061.7
42.5°	2108.0	2102.2	2094.5	2098.3	2081.0	2067.4	2032.8	1996.2	1942.2	1865.2	1786.1
45°	1880.6	1878.7	1874.8	1872.9	1861.3	1847.8	1818.9	1776.5	1716.8	1637.8	1543.4
47.5°	1659.0	1653.2	1653.2	1655.1	1641.6	1639.7	1616.6	1580.0	1528.0	1450.9	1352.6
50°	1447.0	1445.1	1449.0	1456.7	1447.0	1443.2	1427.8	1402.7	1356.5	1291.0	1198.4
52.5°	1256.3	1254.4	1258.2	1267.8	1264.0	1267.8	1252.5	1233.2	1202.3	1138.7	1057.8
55°	1069.4	1069.4	1069.4	1080.9	1080.9	1080.9	1073.2	1061.7	1032.8	986.5	911.4
57.5°	874.8	876.7	888.3	890.2	888.3	892.2	890.2	878.6	859.4	826.6	768.8
60°	711.0	711.0	716.8	722.6	720.6	722.6	722.6	716.8	697.5	670.6	624.3
62.5°	562.6	568.4	564.5	568.4	576.1	568.4	564.5	560.7	547.2	529.9	491.3
65°	425.8	429.7	429.7	431.6	427.7	429.7	422.0	416.2	408.5	389.3	364.2
67.5°	323.7	323.7	323.7	323.7	321.8	319.9	318.0	312.2	298.7	291.0	263.9
70°	248.6	237.0	237.0	237.0	237.0	239.0	233.2	225.5	221.6	208.1	188.8
72.5°	165.7	169.6	165.7	165.7	161.9	163.8	156.1	152.2	148.4	140.7	129.1
75°	119.4	109.8	113.7	115.6	109.8	113.7	106.0	98.3	98.3	92.5	86.7
77.5°	77.1	75.2	77.1	79.0	77.1	75.2	71.3	67.4	67.4	65.5	59.7
80°	55.9	53.9	53.9	53.9	52.0	53.9	50.1	50.1	46.2	44.3	40.4
82.5°	36.6	36.6	34.7	36.6	34.7	36.6	30.9	30.9	30.9	28.9	25.1
85°	25.1	21.2	21.2	23.2	19.3	23.2	21.2	19.3	17.4	17.4	15.4
87.5°	11.6	13.5	11.6	13.5	11.6	11.6	13.5	11.6	11.6	7.7	7.7
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°	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1
2.5°	3926.8	3928.7	3928.7	3936.5	3940.3	3942.2	3942.2	3957.7	3951.9	3955.8	3959.6
5°	3871.0	3882.5	3886.4	3886.4	3907.6	3915.3	3923.0	3940.3	3942.2	3953.8	3967.3
7.5°	3817.0	3830.5	3838.3	3855.5	3869.0	3882.5	3905.7	3917.2	3928.7	3944.2	3961.5
10°	3765.0	3780.4	3795.8	3809.3	3830.5	3847.8	3863.2	3890.2	3903.8	3924.9	3948.0
12.5°	3714.9	3736.1	3749.6	3772.7	3795.8	3811.2	3834.4	3859.4	3880.6	3901.8	3928.7
15°	3670.6	3695.7	3711.0	3736.1	3761.2	3782.3	3807.4	3838.3	3853.6	3878.7	3903.8
17.5°	3622.4	3649.4	3668.7	3691.8	3722.6	3745.7	3767.0	3797.7	3817.0	3844.0	3872.9
20°	3572.3	3599.3	3622.4	3645.5	3676.4	3699.5	3724.5	3755.4	3776.6	3803.5	3826.7
22.5°	3512.6	3537.7	3562.7	3589.6	3620.5	3639.7	3668.7	3695.7	3718.7	3743.8	3767.0
25°	3435.5	3466.4	3485.6	3510.6	3535.7	3556.9	3587.7	3614.7	3634.0	3657.1	3678.3
27.5°	3344.9	3368.1	3383.5	3404.7	3429.7	3449.0	3472.1	3499.1	3518.4	3539.6	3555.0
30°	3190.8	3212.0	3225.5	3240.9	3266.0	3283.3	3302.6	3327.6	3341.1	3356.5	3370.0
32.5°	2988.5	3005.8	3013.5	3025.1	3042.5	3059.8	3075.2	3096.4	3102.2	3111.8	3111.8
35°	2695.6	2699.5	2697.5	2701.4	2709.1	2718.7	2732.2	2745.7	2753.4	2753.4	2747.7
37.5°	2352.6	2329.6	2304.5	2285.2	2279.4	2275.5	2283.3	2289.0	2296.8	2300.6	2291.0
40°	1996.2	1944.2	1888.3	1838.2	1803.5	1788.1	1782.3	1786.1	1786.1	1799.6	1799.6
42.5°	1689.8	1608.9	1526.1	1450.9	1400.8	1362.3	1344.9	1344.9	1346.8	1356.5	1362.3
45°	1435.5	1333.3	1237.0	1154.2	1084.8	1034.7	1011.6	1005.8	1003.9	1007.7	1021.2
47.5°	1240.9	1134.9	1034.7	932.6	859.4	809.3	788.1	780.3	772.6	780.3	782.3
50°	1088.7	978.8	872.9	770.7	693.6	649.3	622.3	610.8	608.9	608.9	612.7
52.5°	949.9	847.8	741.9	637.8	556.8	514.5	489.4	483.6	475.9	483.6	483.6
55°	818.9	716.8	612.7	514.5	447.0	402.7	379.6	371.9	368.0	373.8	373.8
57.5°	676.3	589.6	493.3	404.6	337.2	306.4	289.0	279.4	277.4	281.3	277.4
60°	554.9	481.7	398.8	318.0	265.9	233.2	219.7	215.8	211.9	215.8	215.8
62.5°	439.3	377.7	310.2	248.6	204.2	181.1	165.7	165.7	163.8	163.8	165.7
65°	325.6	277.4	229.3	177.3	142.6	125.2	113.7	113.7	111.7	113.7	111.7
67.5°	237.0	204.2	165.7	129.1	102.2	92.5	84.8	79.0	82.9	79.0	77.1
70°	173.4	146.4	119.4	98.3	79.0	69.4	63.6	61.6	57.8	57.8	57.8
72.5°	115.6	98.3	80.9	63.6	52.0	42.4	40.4	36.6	32.8	34.7	38.5
75°	77.1	65.5	57.8	46.2	34.7	34.7	23.2	23.2	19.3	23.2	17.4
77.5°	53.9	44.3	34.7	28.9	23.2	21.2	15.4	15.4	13.5	13.5	13.5
80°	38.5	32.8	25.1	21.2	15.4	15.4	13.5	11.6	9.6	9.6	11.6
82.5°	23.2	17.4	17.4	15.4	9.6	7.7	5.8	7.7	3.9	3.9	3.9
85°	13.5	11.6	9.6	5.8	3.9	3.9	1.9	0.0	1.9	1.9	0.0
87.5°	7.7	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°	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1
2.5°	3969.3	3967.3	3971.2	3971.2	3982.8	3980.8	3986.6	3986.6	3982.8	3984.7	3992.4
5°	3982.8	3988.5	4000.0	4009.7	4027.0	4034.8	4044.4	4054.1	4056.0	4061.7	4067.5
7.5°	3982.8	4002.0	4015.5	4032.8	4056.0	4069.4	4090.6	4108.0	4115.7	4125.3	4136.9
10°	3975.0	3994.3	4019.3	4038.6	4067.5	4088.7	4109.9	4136.9	4148.4	4163.8	4179.3
12.5°	3959.6	3980.8	4007.7	4032.8	4065.6	4084.8	4111.8	4136.9	4154.2	4175.4	4192.8
15°	3936.5	3961.5	3986.6	4011.6	4046.3	4069.4	4094.5	4123.4	4140.7	4163.8	4179.3
17.5°	3899.9	3926.8	3950.0	3973.1	4005.8	4032.8	4056.0	4082.9	4100.3	4119.6	4140.7
20°	3855.5	3880.6	3905.7	3924.9	3957.7	3980.8	4005.8	4030.9	4044.4	4048.3	4081.0
22.5°	3799.7	3817.0	3836.3	3867.1	3886.4	3907.6	3930.7	3953.8	3967.3	3988.5	4000.0
25°	3707.2	3724.5	3745.7	3759.2	3782.3	3799.7	3822.8	3847.8	3855.5	3871.0	3882.5
27.5°	3578.1	3587.7	3597.4	3608.9	3622.4	3632.0	3645.5	3657.1	3664.8	3672.5	3680.2
30°	3373.8	3373.8	3373.8	3366.1	3371.9	3377.7	3379.6	3377.7	3377.7	3375.8	3375.8
32.5°	3104.1	3088.7	3071.3	3055.9	3050.2	3042.5	3038.6	3032.8	3023.2	3017.4	3019.3
35°	2739.9	2705.2	2684.1	2664.8	2649.4	2637.8	2632.0	2626.2	2624.3	2616.7	2608.9
37.5°	2285.2	2260.2	2244.8	2233.2	2219.7	2208.1	2210.0	2212.0	2217.7	2213.9	2215.8
40°	1803.5	1797.7	1803.5	1790.0	1786.1	1790.0	1799.6	1813.2	1820.9	1828.6	1842.0
42.5°	1371.9	1381.5	1395.1	1395.1	1400.8	1408.5	1420.0	1441.3	1452.8	1466.3	1481.7
45°	1032.8	1044.3	1061.7	1067.4	1071.3	1080.9	1094.5	1111.8	1119.5	1131.0	1144.5
47.5°	795.8	803.5	813.1	822.8	832.4	836.2	849.7	849.7	859.4	867.1	870.9
50°	620.4	628.1	635.8	641.6	645.5	651.3	655.1	660.9	662.8	666.7	668.6
52.5°	485.5	495.2	495.2	499.0	504.8	510.6	508.7	510.6	512.5	512.5	518.3
55°	379.6	379.6	385.4	385.4	389.3	387.3	389.3	389.3	389.3	389.3	391.2
57.5°	283.2	285.2	291.0	287.1	285.2	289.0	285.2	289.0	287.1	291.0	285.2
60°	217.7	217.7	219.7	219.7	221.6	221.6	221.6	219.7	219.7	217.7	217.7
62.5°	163.8	165.7	167.7	165.7	165.7	165.7	163.8	163.8	161.9	159.9	159.9
65°	109.8	107.9	111.7	107.9	109.8	109.8	107.9	109.8	104.1	106.0	104.1
67.5°	79.0	77.1	75.2	77.1	75.2	73.2	73.2	75.2	77.1	71.3	71.3
70°	52.0	53.9	52.0	53.9	55.9	55.9	53.9	52.0	53.9	50.1	52.0
72.5°	32.8	32.8	32.8	32.8	32.8	34.7	34.7	34.7	30.9	30.9	28.9
75°	15.4	21.2	17.4	15.4	21.2	21.2	19.3	19.3	17.4	17.4	17.4
77.5°	15.4	11.6	11.6	11.6	11.6	11.6	11.6	11.6	9.6	11.6	9.6
80°	7.7	7.7	7.7	5.8	7.7	7.7	9.6	7.7	7.7	5.8	9.6
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: P248723

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1
2.5°	3990.4	3988.5	3990.4	3992.4	3990.4	3988.5	3990.4	3992.4	3984.7	3982.8	3986.6
5°	4075.2	4075.2	4079.0	4081.0	4079.0	4075.2	4075.2	4067.5	4061.7	4056.0	4054.1
7.5°	4148.4	4152.3	4156.1	4158.0	4156.1	4152.3	4148.4	4136.9	4125.3	4115.7	4108.0
10°	4192.8	4198.6	4206.2	4210.1	4206.2	4198.6	4192.8	4179.3	4163.8	4148.4	4136.9
12.5°	4212.0	4217.8	4227.4	4225.5	4227.4	4217.8	4212.0	4192.8	4175.4	4154.2	4136.9
15°	4198.6	4206.2	4215.8	4219.7	4215.8	4206.2	4198.6	4179.3	4163.8	4140.7	4123.4
17.5°	4156.1	4167.7	4173.5	4179.3	4173.5	4167.7	4156.1	4140.7	4119.6	4100.3	4082.9
20°	4098.3	4106.1	4113.8	4115.7	4113.8	4106.1	4098.3	4081.0	4048.3	4044.4	4030.9
22.5°	4015.5	4021.3	4038.6	4032.8	4038.6	4021.3	4015.5	4000.0	3988.5	3967.3	3953.8
25°	3896.0	3901.8	3903.8	3905.7	3903.8	3901.8	3896.0	3882.5	3871.0	3855.5	3847.8
27.5°	3689.9	3689.9	3693.7	3695.7	3693.7	3689.9	3689.9	3680.2	3672.5	3664.8	3657.1
30°	3377.7	3377.7	3377.7	3387.4	3377.7	3377.7	3377.7	3375.8	3375.8	3377.7	3377.7
32.5°	3017.4	3013.5	3009.7	3013.5	3009.7	3013.5	3017.4	3019.3	3017.4	3023.2	3032.8
35°	2608.9	2607.0	2612.8	2605.1	2612.8	2607.0	2608.9	2608.9	2616.7	2624.3	2626.2
37.5°	2217.7	2213.9	2221.6	2213.9	2221.6	2213.9	2217.7	2215.8	2213.9	2217.7	2212.0
40°	1845.9	1849.7	1849.7	1865.2	1849.7	1849.7	1845.9	1842.0	1828.6	1820.9	1813.2
42.5°	1489.4	1501.0	1497.1	1508.7	1497.1	1501.0	1489.4	1481.7	1466.3	1452.8	1441.3
45°	1152.2	1160.0	1160.0	1163.8	1160.0	1160.0	1152.2	1144.5	1131.0	1119.5	1111.8
47.5°	884.4	884.4	884.4	886.4	884.4	884.4	884.4	870.9	867.1	859.4	849.7
50°	672.5	674.4	676.3	678.3	676.3	674.4	672.5	668.6	666.7	662.8	660.9
52.5°	516.4	518.3	514.5	518.3	514.5	518.3	516.4	518.3	512.5	512.5	510.6
55°	391.2	389.3	391.2	393.1	391.2	389.3	391.2	391.2	389.3	389.3	389.3
57.5°	287.1	283.2	283.2	283.2	283.2	283.2	287.1	285.2	291.0	287.1	289.0
60°	213.9	215.8	215.8	217.7	215.8	215.8	213.9	217.7	217.7	219.7	219.7
62.5°	158.0	163.8	159.9	163.8	159.9	163.8	158.0	159.9	159.9	161.9	163.8
65°	102.2	102.2	102.2	104.1	102.2	102.2	102.2	104.1	106.0	104.1	109.8
67.5°	69.4	71.3	75.2	73.2	75.2	71.3	69.4	71.3	71.3	77.1	75.2
70°	55.9	50.1	50.1	55.9	50.1	50.1	55.9	52.0	50.1	53.9	52.0
72.5°	32.8	28.9	32.8	32.8	32.8	28.9	32.8	28.9	30.9	30.9	34.7
75°	17.4	15.4	13.5	19.3	13.5	15.4	17.4	17.4	17.4	17.4	19.3
77.5°	11.6	9.6	13.5	13.5	13.5	9.6	11.6	9.6	11.6	9.6	11.6
80°	5.8	7.7	5.8	9.6	5.8	7.7	5.8	9.6	5.8	7.7	7.7
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: P248723

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1
2.5°	3986.6	3980.8	3982.8	3971.2	3971.2	3967.3	3969.3	3959.6	3955.8	3951.9	3957.7
5°	4044.4	4034.8	4027.0	4009.7	4000.0	3988.5	3982.8	3967.3	3953.8	3942.2	3940.3
7.5°	4090.6	4069.4	4056.0	4032.8	4015.5	4002.0	3982.8	3961.5	3944.2	3928.7	3917.2
10°	4109.9	4088.7	4067.5	4038.6	4019.3	3994.3	3975.0	3948.0	3924.9	3903.8	3890.2
12.5°	4111.8	4084.8	4065.6	4032.8	4007.7	3980.8	3959.6	3928.7	3901.8	3880.6	3859.4
15°	4094.5	4069.4	4046.3	4011.6	3986.6	3961.5	3936.5	3903.8	3878.7	3853.6	3838.3
17.5°	4056.0	4032.8	4005.8	3973.1	3950.0	3926.8	3899.9	3872.9	3844.0	3817.0	3797.7
20°	4005.8	3980.8	3957.7	3924.9	3905.7	3880.6	3855.5	3826.7	3803.5	3776.6	3755.4
22.5°	3930.7	3907.6	3886.4	3867.1	3836.3	3817.0	3799.7	3767.0	3743.8	3718.7	3695.7
25°	3822.8	3799.7	3782.3	3759.2	3745.7	3724.5	3707.2	3678.3	3657.1	3634.0	3614.7
27.5°	3645.5	3632.0	3622.4	3608.9	3597.4	3587.7	3578.1	3555.0	3539.6	3518.4	3499.1
30°	3379.6	3377.7	3371.9	3366.1	3373.8	3373.8	3373.8	3370.0	3356.5	3341.1	3327.6
32.5°	3038.6	3042.5	3050.2	3055.9	3071.3	3088.7	3104.1	3111.8	3111.8	3102.2	3096.4
35°	2632.0	2637.8	2649.4	2664.8	2684.1	2705.2	2739.9	2747.7	2753.4	2753.4	2745.7
37.5°	2210.0	2208.1	2219.7	2233.2	2244.8	2260.2	2285.2	2291.0	2300.6	2296.8	2289.0
40°	1799.6	1790.0	1786.1	1790.0	1803.5	1797.7	1803.5	1799.6	1799.6	1786.1	1786.1
42.5°	1420.0	1408.5	1400.8	1395.1	1395.1	1381.5	1371.9	1362.3	1356.5	1346.8	1344.9
45°	1094.5	1080.9	1071.3	1067.4	1061.7	1044.3	1032.8	1021.2	1007.7	1003.9	1005.8
47.5°	849.7	836.2	832.4	822.8	813.1	803.5	795.8	782.3	780.3	772.6	780.3
50°	655.1	651.3	645.5	641.6	635.8	628.1	620.4	612.7	608.9	608.9	610.8
52.5°	508.7	510.6	504.8	499.0	495.2	495.2	485.5	483.6	483.6	475.9	483.6
55°	389.3	387.3	389.3	385.4	385.4	379.6	379.6	373.8	373.8	368.0	371.9
57.5°	285.2	289.0	285.2	287.1	291.0	285.2	283.2	277.4	281.3	277.4	279.4
60°	221.6	221.6	221.6	219.7	219.7	217.7	217.7	215.8	215.8	211.9	215.8
62.5°	163.8	165.7	165.7	165.7	167.7	165.7	163.8	165.7	163.8	163.8	165.7
65°	107.9	109.8	109.8	107.9	111.7	107.9	109.8	111.7	113.7	111.7	113.7
67.5°	73.2	73.2	75.2	77.1	75.2	77.1	79.0	77.1	79.0	82.9	79.0
70°	53.9	55.9	55.9	53.9	52.0	53.9	52.0	57.8	57.8	57.8	61.6
72.5°	34.7	34.7	32.8	32.8	32.8	32.8	32.8	38.5	34.7	32.8	36.6
75°	19.3	21.2	21.2	15.4	17.4	21.2	15.4	17.4	23.2	19.3	23.2
77.5°	11.6	11.6	11.6	11.6	11.6	11.6	15.4	13.5	13.5	13.5	15.4
80°	9.6	7.7	7.7	5.8	7.7	7.7	7.7	11.6	9.6	9.6	11.6
82.5°	3.9	3.9	1.9	0.0	3.9	3.9	3.9	3.9	3.9	3.9	7.7
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: P248723

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1
2.5°	3942.2	3942.2	3940.3	3936.5	3928.7	3928.7	3926.8	3921.1	3917.2	3915.3	3915.3
5°	3923.0	3915.3	3907.6	3886.4	3886.4	3882.5	3871.0	3863.2	3859.4	3849.8	3845.9
7.5°	3905.7	3882.5	3869.0	3855.5	3838.3	3830.5	3817.0	3811.2	3797.7	3788.1	3782.3
10°	3863.2	3847.8	3830.5	3809.3	3795.8	3780.4	3765.0	3753.5	3736.1	3726.4	3718.7
12.5°	3834.4	3811.2	3795.8	3772.7	3749.6	3736.1	3714.9	3701.4	3684.1	3664.8	3653.2
15°	3807.4	3782.3	3761.2	3736.1	3711.0	3695.7	3670.6	3655.2	3630.1	3610.9	3597.4
17.5°	3767.0	3745.7	3722.6	3691.8	3668.7	3649.4	3622.4	3603.2	3580.0	3555.0	3541.5
20°	3724.5	3699.5	3676.4	3645.5	3622.4	3599.3	3572.3	3551.2	3524.1	3501.0	3485.6
22.5°	3668.7	3639.7	3620.5	3589.6	3562.7	3537.7	3512.6	3487.5	3462.5	3443.2	3425.8
25°	3587.7	3556.9	3535.7	3510.6	3485.6	3466.4	3435.5	3420.1	3395.1	3377.7	3360.3
27.5°	3472.1	3449.0	3429.7	3404.7	3383.5	3368.1	3344.9	3329.6	3308.3	3292.9	3279.4
30°	3302.6	3283.3	3266.0	3240.9	3225.5	3212.0	3190.8	3177.3	3161.9	3144.5	3140.7
32.5°	3075.2	3059.8	3042.5	3025.1	3013.5	3005.8	2988.5	2980.8	2965.4	2955.7	2946.1
35°	2732.2	2718.7	2709.1	2701.4	2697.5	2699.5	2695.6	2703.3	2707.1	2705.2	2707.1
37.5°	2283.3	2275.5	2279.4	2285.2	2304.5	2329.6	2352.6	2387.3	2410.4	2433.6	2454.8
40°	1782.3	1788.1	1803.5	1838.2	1888.3	1944.2	1996.2	2061.7	2127.2	2173.5	2215.8
42.5°	1344.9	1362.3	1400.8	1450.9	1526.1	1608.9	1689.8	1786.1	1865.2	1942.2	1996.2
45°	1011.6	1034.7	1084.8	1154.2	1237.0	1333.3	1435.5	1543.4	1637.8	1716.8	1776.5
47.5°	788.1	809.3	859.4	932.6	1034.7	1134.9	1240.9	1352.6	1450.9	1528.0	1580.0
50°	622.3	649.3	693.6	770.7	872.9	978.8	1088.7	1198.4	1291.0	1356.5	1402.7
52.5°	489.4	514.5	556.8	637.8	741.9	847.8	949.9	1057.8	1138.7	1202.3	1233.2
55°	379.6	402.7	447.0	514.5	612.7	716.8	818.9	911.4	986.5	1032.8	1061.7
57.5°	289.0	306.4	337.2	404.6	493.3	589.6	676.3	768.8	826.6	859.4	878.6
60°	219.7	233.2	265.9	318.0	398.8	481.7	554.9	624.3	670.6	697.5	716.8
62.5°	165.7	181.1	204.2	248.6	310.2	377.7	439.3	491.3	529.9	547.2	560.7
65°	113.7	125.2	142.6	177.3	229.3	277.4	325.6	364.2	389.3	408.5	416.2
67.5°	84.8	92.5	102.2	129.1	165.7	204.2	237.0	263.9	291.0	298.7	312.2
70°	63.6	69.4	79.0	98.3	119.4	146.4	173.4	188.8	208.1	221.6	225.5
72.5°	40.4	42.4	52.0	63.6	80.9	98.3	115.6	129.1	140.7	148.4	152.2
75°	23.2	34.7	34.7	46.2	57.8	65.5	77.1	86.7	92.5	98.3	98.3
77.5°	15.4	21.2	23.2	28.9	34.7	44.3	53.9	59.7	65.5	67.4	67.4
80°	13.5	15.4	15.4	21.2	25.1	32.8	38.5	40.4	44.3	46.2	50.1
82.5°	5.8	7.7	9.6	15.4	17.4	17.4	23.2	25.1	28.9	30.9	30.9
85°	1.9	3.9	3.9	5.8	9.6	11.6	13.5	15.4	17.4	17.4	19.3
87.5°	1.9	1.9	0.0	1.9	3.9	3.9	7.7	7.7	7.7	11.6	11.6
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: P248723

CATALOG NUMBER: LD8B70D010 ER8B70940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1	3946.1
2.5°	3911.5	3913.4	3905.7	3903.8	3899.9	3901.8	3905.7
5°	3840.2	3842.1	3834.4	3826.7	3826.7	3824.7	3826.7
7.5°	3772.7	3774.6	3763.1	3759.2	3751.5	3753.5	3753.5
10°	3705.3	3705.3	3688.0	3686.0	3680.2	3678.3	3678.3
12.5°	3639.7	3634.0	3620.5	3612.8	3616.7	3605.1	3605.1
15°	3581.9	3572.3	3555.0	3549.2	3539.6	3535.7	3535.7
17.5°	3522.2	3514.5	3499.1	3487.5	3476.0	3474.1	3476.0
20°	3464.4	3456.7	3437.4	3429.7	3420.1	3420.1	3416.2
22.5°	3406.6	3398.9	3381.6	3375.8	3362.3	3362.3	3364.2
25°	3346.9	3341.1	3321.8	3318.0	3316.1	3308.3	3312.2
27.5°	3266.0	3262.1	3246.7	3240.9	3233.2	3231.3	3235.1
30°	3117.6	3111.8	3100.3	3094.5	3081.0	3082.9	3086.7
32.5°	2932.6	2924.9	2909.5	2903.7	2892.2	2888.3	2890.2
35°	2701.4	2695.6	2682.2	2682.2	2670.6	2666.7	2670.6
37.5°	2466.4	2472.1	2466.4	2472.1	2466.4	2464.4	2466.4
40°	2244.8	2265.9	2269.8	2291.0	2283.3	2294.8	2292.9
42.5°	2032.8	2067.4	2081.0	2098.3	2094.5	2102.2	2108.0
45°	1818.9	1847.8	1861.3	1872.9	1874.8	1878.7	1880.6
47.5°	1616.6	1639.7	1641.6	1655.1	1653.2	1653.2	1659.0
50°	1427.8	1443.2	1447.0	1456.7	1449.0	1445.1	1447.0
52.5°	1252.5	1267.8	1264.0	1267.8	1258.2	1254.4	1256.3
55°	1073.2	1080.9	1080.9	1080.9	1069.4	1069.4	1069.4
57.5°	890.2	892.2	888.3	890.2	888.3	876.7	874.8
60°	722.6	722.6	720.6	722.6	716.8	711.0	711.0
62.5°	564.5	568.4	576.1	568.4	564.5	568.4	562.6
65°	422.0	429.7	427.7	431.6	429.7	429.7	425.8
67.5°	318.0	319.9	321.8	323.7	323.7	323.7	323.7
70°	233.2	239.0	237.0	237.0	237.0	237.0	248.6
72.5°	156.1	163.8	161.9	165.7	165.7	169.6	165.7
75°	106.0	113.7	109.8	115.6	113.7	109.8	119.4
77.5°	71.3	75.2	77.1	79.0	77.1	75.2	77.1
80°	50.1	53.9	52.0	53.9	53.9	53.9	55.9
82.5°	30.9	36.6	34.7	36.6	34.7	36.6	36.6
85°	21.2	23.2	19.3	23.2	21.2	21.2	25.1
87.5°	13.5	11.6	11.6	13.5	11.6	13.5	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)