

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: P248949

Luminaire Tested: **LD8B80D010 ER8B80950 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248949
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 ER8B80950 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5898.0 lumens
Efficiency: N/A
Efficacy: 79.3 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

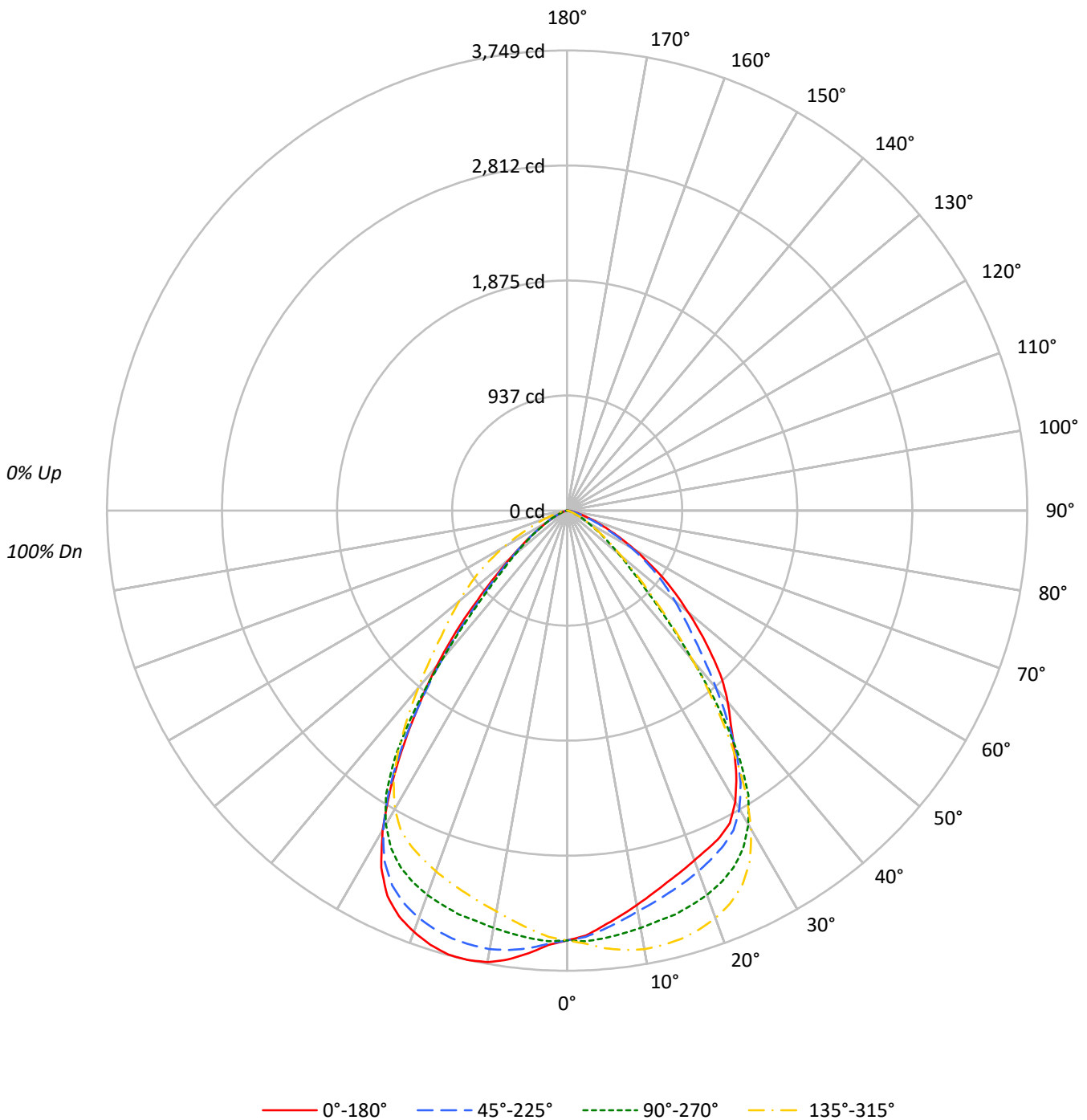
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	107973	107973	107973	107973
5°	105105	108225	112091	108225
10°	102196	108083	116972	108083
15°	100155	108724	119530	108724
20°	99473	109347	119838	109347
25°	99997	109129	117914	109129
30°	97523	105132	107023	105132
35°	89205	91713	87015	91713
40°	81897	63798	66620	63798
45°	72771	38921	45031	38921
50°	61592	25996	28870	25996
55°	51014	17741	18752	17741
60°	38909	11810	11915	11810
65°	27566	7355	6735	7355
70°	19880	4932	4472	4932
75°	12629	2442	2037	2442
80°	8808	1829	1509	1829
85°	7855	0	601	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.3	5.7
10°-20°	965.1	16.4
20°-30°	1461.4	24.8
30°-40°	1464.6	24.8
40°-50°	919.7	15.6
50°-60°	490.1	8.3
60°-70°	201.5	3.4
70°-80°	53.3	0.9
80°-90°	9.0	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°	2759.7	46.8
0°-40°	4224.4	71.6
0°-60°	5634.2	95.5
0°-90°	5898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5898.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3502	3502	3502	3502	3502	
5°	3396	3496	3621	3496	3396	320
15°	3137	3406	3744	3406	3137	887
25°	2939	3207	3466	3207	2939	1348
35°	2370	2436	2312	2436	2370	1485
45°	1669	892	1033	892	1669	1283
55°	949	330	349	330	949	846
65°	378	101	92	101	378	392
75°	106	20	17	20	106	120
85°	22	0	2	0	22	24
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°	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5
2.5°	3465.6	3462.1	3460.4	3463.9	3465.6	3472.4	3470.7	3474.1	3474.1	3475.8	3479.2
5°	3395.5	3393.7	3395.5	3395.5	3402.3	3409.1	3407.4	3412.6	3416.0	3424.5	3427.9
7.5°	3330.5	3330.5	3328.8	3335.6	3339.0	3349.3	3347.6	3356.1	3361.3	3369.8	3381.8
10°	3263.8	3263.8	3265.5	3270.6	3272.4	3287.7	3287.7	3299.7	3306.5	3315.1	3330.5
12.5°	3198.9	3198.9	3209.1	3205.7	3212.5	3224.5	3229.6	3241.6	3251.8	3268.9	3284.4
15°	3137.3	3137.3	3140.7	3149.2	3154.4	3169.8	3178.3	3192.0	3204.0	3221.1	3243.3
17.5°	3084.3	3082.6	3084.3	3094.6	3104.8	3118.5	3125.3	3142.4	3154.4	3176.6	3197.2
20°	3031.3	3034.7	3034.7	3043.3	3050.1	3067.2	3074.0	3092.9	3106.5	3127.0	3151.0
22.5°	2985.1	2983.4	2983.4	2995.4	3000.5	3015.9	3022.7	3039.8	3055.2	3072.3	3094.6
25°	2939.0	2935.5	2942.4	2944.1	2947.5	2964.6	2969.7	2981.7	2997.1	3012.5	3034.7
27.5°	2870.6	2867.2	2868.9	2875.7	2880.8	2894.5	2897.9	2909.9	2921.9	2935.5	2954.4
30°	2738.9	2735.5	2733.8	2745.8	2750.9	2761.1	2766.3	2786.8	2790.2	2805.6	2819.3
32.5°	2564.5	2562.8	2566.3	2576.5	2581.6	2595.3	2602.2	2614.1	2622.6	2631.2	2644.9
35°	2369.7	2366.2	2369.7	2379.9	2379.9	2391.9	2397.0	2402.1	2400.4	2402.1	2398.7
37.5°	2188.4	2186.7	2188.4	2193.5	2188.4	2193.5	2188.4	2178.2	2159.4	2138.8	2118.3
40°	2034.5	2036.2	2026.0	2032.9	2014.0	2010.6	1991.8	1966.1	1928.6	1887.5	1829.4
42.5°	1870.4	1865.3	1858.5	1861.8	1846.5	1834.5	1803.7	1771.3	1723.4	1655.0	1584.9
45°	1668.7	1667.0	1663.5	1661.8	1651.6	1639.6	1613.9	1576.3	1523.4	1453.3	1369.4
47.5°	1472.1	1466.9	1466.9	1468.6	1456.6	1455.0	1434.4	1402.0	1355.8	1287.4	1200.2
50°	1283.9	1282.3	1285.7	1292.5	1283.9	1280.6	1266.9	1244.7	1203.7	1145.5	1063.4
52.5°	1114.7	1113.0	1116.5	1125.0	1121.5	1125.0	1111.3	1094.2	1066.8	1010.4	938.6
55°	948.9	948.9	948.9	959.1	959.1	959.1	952.3	942.1	916.4	875.4	808.7
57.5°	776.2	777.9	788.2	789.9	788.2	791.6	789.9	779.6	762.6	733.5	682.2
60°	630.9	630.9	636.0	641.2	639.4	641.2	641.2	636.0	618.9	595.0	554.0
62.5°	499.2	504.4	500.9	504.4	511.2	504.4	500.9	497.5	485.6	470.2	436.0
65°	377.8	381.3	381.3	383.0	379.5	381.3	374.5	369.3	362.5	345.4	323.2
67.5°	287.3	287.3	287.3	287.3	285.5	283.8	282.1	277.0	265.0	258.2	234.2
70°	220.5	210.3	210.3	210.3	210.3	212.0	206.9	200.1	196.6	184.7	167.6
72.5°	147.0	150.5	147.0	147.0	143.6	145.3	138.5	135.0	131.7	124.8	114.6
75°	106.0	97.5	100.8	102.6	97.5	100.8	94.0	87.2	87.2	82.1	76.9
77.5°	68.4	66.7	68.4	70.1	68.4	66.7	63.3	59.8	59.8	58.1	53.0
80°	49.6	47.9	47.9	47.9	46.2	47.9	44.5	44.5	41.0	39.3	35.9
82.5°	32.5	32.5	30.8	32.5	30.8	32.5	27.4	27.4	27.4	25.6	22.2
85°	22.2	18.8	18.8	20.5	17.1	20.5	18.8	17.1	15.4	15.4	13.7
87.5°	10.3	12.0	10.3	12.0	10.3	10.3	12.0	10.3	10.3	6.8	6.8
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°	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5
2.5°	3484.4	3486.0	3486.0	3492.9	3496.3	3498.0	3498.0	3511.7	3506.6	3510.0	3513.4
5°	3434.8	3445.0	3448.5	3448.5	3467.3	3474.1	3480.9	3496.3	3498.0	3508.3	3520.2
7.5°	3386.9	3398.9	3405.7	3421.1	3433.1	3445.0	3465.6	3475.8	3486.0	3499.8	3515.1
10°	3340.7	3354.4	3368.1	3380.1	3398.9	3414.3	3427.9	3451.8	3463.9	3482.7	3503.1
12.5°	3296.3	3315.1	3327.1	3347.6	3368.1	3381.8	3402.3	3424.5	3443.3	3462.1	3486.0
15°	3257.0	3279.2	3292.9	3315.1	3337.3	3356.1	3378.4	3405.7	3419.4	3441.6	3463.9
17.5°	3214.2	3238.2	3255.3	3275.8	3303.1	3323.6	3342.5	3369.8	3386.9	3410.8	3436.5
20°	3169.8	3193.7	3214.2	3234.7	3262.1	3282.6	3304.8	3332.2	3351.0	3374.9	3395.5
22.5°	3116.8	3139.0	3161.2	3185.1	3212.5	3229.6	3255.3	3279.2	3299.7	3321.9	3342.5
25°	3048.4	3075.8	3092.9	3115.0	3137.3	3156.1	3183.4	3207.4	3224.5	3245.0	3263.8
27.5°	2968.0	2988.6	3002.2	3021.0	3043.3	3060.4	3080.8	3104.8	3121.9	3140.7	3154.4
30°	2831.2	2850.1	2862.1	2875.7	2897.9	2913.4	2930.5	2952.6	2964.6	2978.3	2990.3
32.5°	2651.7	2667.1	2673.9	2684.2	2699.6	2715.0	2728.7	2747.5	2752.6	2761.1	2761.1
35°	2391.9	2395.3	2393.6	2397.0	2403.9	2412.4	2424.3	2436.3	2443.1	2443.1	2438.1
37.5°	2087.5	2067.1	2044.8	2027.7	2022.6	2019.1	2026.0	2031.1	2038.0	2041.4	2032.9
40°	1771.3	1725.1	1675.5	1631.0	1600.3	1586.6	1581.5	1584.9	1584.9	1596.8	1596.8
42.5°	1499.4	1427.6	1354.1	1287.4	1242.9	1208.8	1193.4	1193.4	1195.1	1203.7	1208.8
45°	1273.7	1183.1	1097.6	1024.1	962.6	918.1	897.6	892.5	890.8	894.2	906.1
47.5°	1101.0	1007.0	918.1	827.5	762.6	718.1	699.3	692.4	685.6	692.4	694.2
50°	966.0	868.5	774.5	683.9	615.5	576.1	552.2	541.9	540.2	540.2	543.7
52.5°	842.9	752.3	658.3	565.9	494.1	456.5	434.3	429.1	422.3	429.1	429.1
55°	726.6	636.0	543.7	456.5	396.6	357.4	336.8	330.0	326.5	331.7	331.7
57.5°	600.1	523.1	437.7	359.0	299.2	271.8	256.4	247.9	246.2	249.6	246.2
60°	492.4	427.4	353.9	282.1	236.0	206.9	194.9	191.5	188.0	191.5	191.5
62.5°	389.8	335.1	275.2	220.5	181.2	160.7	147.0	147.0	145.3	145.3	147.0
65°	288.9	246.2	203.4	157.3	126.5	111.1	100.8	100.8	99.2	100.8	99.2
67.5°	210.3	181.2	147.0	114.6	90.6	82.1	75.2	70.1	73.5	70.1	68.4
70°	153.9	129.9	106.0	87.2	70.1	61.6	56.4	54.7	51.3	51.3	51.3
72.5°	102.6	87.2	71.8	56.4	46.2	37.6	35.9	32.5	29.1	30.8	34.2
75°	68.4	58.1	51.3	41.0	30.8	30.8	20.5	20.5	17.1	20.5	15.4
77.5°	47.9	39.3	30.8	25.6	20.5	18.8	13.7	13.7	12.0	12.0	12.0
80°	34.2	29.1	22.2	18.8	13.7	13.7	12.0	10.3	8.5	8.5	10.3
82.5°	20.5	15.4	15.4	13.7	8.5	6.8	5.1	6.8	3.4	3.4	3.4
85°	12.0	10.3	8.5	5.1	3.4	3.4	1.7	0.0	1.7	1.7	0.0
87.5°	6.8	3.4	3.4	1.7	0.0	1.7	1.7	0.0	0.0	0.0	3.4
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°	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5
2.5°	3522.0	3520.2	3523.7	3523.7	3534.0	3532.2	3537.3	3537.3	3534.0	3535.7	3542.5
5°	3534.0	3539.1	3549.3	3557.9	3573.2	3580.1	3588.6	3597.2	3598.9	3604.1	3609.2
7.5°	3534.0	3551.1	3563.0	3578.4	3598.9	3610.9	3629.7	3645.1	3651.9	3660.4	3670.7
10°	3527.1	3544.2	3566.4	3583.5	3609.2	3628.0	3646.8	3670.7	3681.0	3694.6	3708.4
12.5°	3513.4	3532.2	3556.1	3578.4	3607.4	3624.5	3648.5	3670.7	3686.1	3704.9	3720.3
15°	3492.9	3515.1	3537.3	3559.6	3590.3	3610.9	3633.1	3658.7	3674.2	3694.6	3708.4
17.5°	3460.4	3484.4	3504.9	3525.4	3554.4	3578.4	3598.9	3622.8	3638.3	3655.4	3674.2
20°	3421.1	3443.3	3465.6	3482.7	3511.7	3532.2	3554.4	3576.7	3588.6	3592.1	3621.2
22.5°	3371.5	3386.9	3404.0	3431.4	3448.5	3467.3	3487.8	3508.3	3520.2	3539.1	3549.3
25°	3289.4	3304.8	3323.6	3335.6	3356.1	3371.5	3392.0	3414.3	3421.1	3434.8	3445.0
27.5°	3174.9	3183.4	3192.0	3202.2	3214.2	3222.8	3234.7	3245.0	3251.8	3258.7	3265.5
30°	2993.6	2993.6	2993.6	2986.8	2992.0	2997.1	2998.8	2997.1	2997.1	2995.4	2995.4
32.5°	2754.3	2740.7	2725.2	2711.6	2706.5	2699.6	2696.2	2691.0	2682.5	2677.4	2679.1
35°	2431.2	2400.4	2381.6	2364.5	2350.9	2340.6	2335.5	2330.3	2328.6	2321.8	2314.9
37.5°	2027.7	2005.5	1991.8	1981.5	1969.6	1959.3	1961.0	1962.8	1967.8	1964.4	1966.1
40°	1600.3	1595.1	1600.3	1588.3	1584.9	1588.3	1596.8	1608.9	1615.7	1622.5	1634.5
42.5°	1217.3	1225.8	1237.9	1237.9	1242.9	1249.8	1260.0	1278.9	1289.1	1301.0	1314.8
45°	916.4	926.7	942.1	947.1	950.6	959.1	971.1	986.5	993.3	1003.6	1015.5
47.5°	706.1	712.9	721.5	730.0	738.6	742.0	754.0	754.0	762.6	769.4	772.8
50°	550.5	557.4	564.2	569.3	572.8	577.9	581.3	586.4	588.1	591.6	593.2
52.5°	430.8	439.4	439.4	442.8	447.9	453.1	451.4	453.1	454.7	454.7	459.9
55°	336.8	336.8	341.9	341.9	345.4	343.6	345.4	345.4	345.4	345.4	347.1
57.5°	251.3	253.1	258.2	254.7	253.1	256.4	253.1	256.4	254.7	258.2	253.1
60°	193.2	193.2	194.9	194.9	196.6	196.6	196.6	194.9	194.9	193.2	193.2
62.5°	145.3	147.0	148.8	147.0	147.0	147.0	145.3	145.3	143.6	141.9	141.9
65°	97.5	95.8	99.2	95.8	97.5	97.5	95.8	97.5	92.3	94.0	92.3
67.5°	70.1	68.4	66.7	68.4	66.7	65.0	65.0	66.7	68.4	63.3	63.3
70°	46.2	47.9	46.2	47.9	49.6	49.6	47.9	46.2	47.9	44.5	46.2
72.5°	29.1	29.1	29.1	29.1	29.1	30.8	30.8	30.8	27.4	27.4	25.6
75°	13.7	18.8	15.4	13.7	18.8	18.8	17.1	17.1	15.4	15.4	15.4
77.5°	13.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3	8.5	10.3	8.5
80°	6.8	6.8	6.8	5.1	6.8	6.8	8.5	6.8	6.8	5.1	8.5
82.5°	3.4	3.4	3.4	0.0	1.7	3.4	3.4	1.7	3.4	3.4	1.7
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: P248949

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5
2.5°	3540.8	3539.1	3540.8	3542.5	3540.8	3539.1	3540.8	3542.5	3535.7	3534.0	3537.3
5°	3616.0	3616.0	3619.4	3621.2	3619.4	3616.0	3616.0	3609.2	3604.1	3598.9	3597.2
7.5°	3681.0	3684.4	3687.8	3689.5	3687.8	3684.4	3681.0	3670.7	3660.4	3651.9	3645.1
10°	3720.3	3725.5	3732.3	3735.7	3732.3	3725.5	3720.3	3708.4	3694.6	3681.0	3670.7
12.5°	3737.4	3742.6	3751.1	3749.4	3751.1	3742.6	3737.4	3720.3	3704.9	3686.1	3670.7
15°	3725.5	3732.3	3740.8	3744.2	3740.8	3732.3	3725.5	3708.4	3694.6	3674.2	3658.7
17.5°	3687.8	3698.1	3703.2	3708.4	3703.2	3698.1	3687.8	3674.2	3655.4	3638.3	3622.8
20°	3636.5	3643.4	3650.2	3651.9	3650.2	3643.4	3636.5	3621.2	3592.1	3588.6	3576.7
22.5°	3563.0	3568.2	3583.5	3578.4	3583.5	3568.2	3563.0	3549.3	3539.1	3520.2	3508.3
25°	3457.0	3462.1	3463.9	3465.6	3463.9	3462.1	3457.0	3445.0	3434.8	3421.1	3414.3
27.5°	3274.1	3274.1	3277.5	3279.2	3277.5	3274.1	3274.1	3265.5	3258.7	3251.8	3245.0
30°	2997.1	2997.1	2997.1	3005.7	2997.1	2997.1	2997.1	2995.4	2995.4	2997.1	2997.1
32.5°	2677.4	2673.9	2670.6	2673.9	2670.6	2673.9	2677.4	2679.1	2677.4	2682.5	2691.0
35°	2314.9	2313.2	2318.4	2311.5	2318.4	2313.2	2314.9	2314.9	2321.8	2328.6	2330.3
37.5°	1967.8	1964.4	1971.3	1964.4	1971.3	1964.4	1967.8	1966.1	1964.4	1967.8	1962.8
40°	1637.9	1641.3	1641.3	1655.0	1641.3	1641.3	1637.9	1634.5	1622.5	1615.7	1608.9
42.5°	1321.6	1331.9	1328.4	1338.7	1328.4	1331.9	1321.6	1314.8	1301.0	1289.1	1278.9
45°	1022.4	1029.3	1029.3	1032.6	1029.3	1029.3	1022.4	1015.5	1003.6	993.3	986.5
47.5°	784.7	784.7	784.7	786.5	784.7	784.7	784.7	772.8	769.4	762.6	754.0
50°	596.7	598.4	600.1	601.8	600.1	598.4	596.7	593.2	591.6	588.1	586.4
52.5°	458.2	459.9	456.5	459.9	456.5	459.9	458.2	459.9	454.7	454.7	453.1
55°	347.1	345.4	347.1	348.8	347.1	345.4	347.1	347.1	345.4	345.4	345.4
57.5°	254.7	251.3	251.3	251.3	251.3	251.3	254.7	253.1	258.2	254.7	256.4
60°	189.8	191.5	191.5	193.2	191.5	191.5	189.8	193.2	193.2	194.9	194.9
62.5°	140.2	145.3	141.9	145.3	141.9	145.3	140.2	141.9	141.9	143.6	145.3
65°	90.6	90.6	90.6	92.3	90.6	90.6	90.6	92.3	94.0	92.3	97.5
67.5°	61.6	63.3	66.7	65.0	66.7	63.3	61.6	63.3	63.3	68.4	66.7
70°	49.6	44.5	44.5	49.6	44.5	44.5	49.6	46.2	44.5	47.9	46.2
72.5°	29.1	25.6	29.1	29.1	29.1	25.6	29.1	25.6	27.4	27.4	30.8
75°	15.4	13.7	12.0	17.1	12.0	13.7	15.4	15.4	15.4	15.4	17.1
77.5°	10.3	8.5	12.0	12.0	12.0	8.5	10.3	8.5	10.3	8.5	10.3
80°	5.1	6.8	5.1	8.5	5.1	6.8	5.1	8.5	5.1	6.8	6.8
82.5°	1.7	3.4	3.4	3.4	3.4	3.4	1.7	1.7	3.4	3.4	1.7
85°	0.0	3.4	1.7	1.7	1.7	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.0	0.0	1.7	0.0	0.0	1.7	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: P248949

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5
2.5°	3537.3	3532.2	3534.0	3523.7	3523.7	3520.2	3522.0	3513.4	3510.0	3506.6	3511.7
5°	3588.6	3580.1	3573.2	3557.9	3549.3	3539.1	3534.0	3520.2	3508.3	3498.0	3496.3
7.5°	3629.7	3610.9	3598.9	3578.4	3563.0	3551.1	3534.0	3515.1	3499.8	3486.0	3475.8
10°	3646.8	3628.0	3609.2	3583.5	3566.4	3544.2	3527.1	3503.1	3482.7	3463.9	3451.8
12.5°	3648.5	3624.5	3607.4	3578.4	3556.1	3532.2	3513.4	3486.0	3462.1	3443.3	3424.5
15°	3633.1	3610.9	3590.3	3559.6	3537.3	3515.1	3492.9	3463.9	3441.6	3419.4	3405.7
17.5°	3598.9	3578.4	3554.4	3525.4	3504.9	3484.4	3460.4	3436.5	3410.8	3386.9	3369.8
20°	3554.4	3532.2	3511.7	3482.7	3465.6	3443.3	3421.1	3395.5	3374.9	3351.0	3332.2
22.5°	3487.8	3467.3	3448.5	3431.4	3404.0	3386.9	3371.5	3342.5	3321.9	3299.7	3279.2
25°	3392.0	3371.5	3356.1	3335.6	3323.6	3304.8	3289.4	3263.8	3245.0	3224.5	3207.4
27.5°	3234.7	3222.8	3214.2	3202.2	3192.0	3183.4	3174.9	3154.4	3140.7	3121.9	3104.8
30°	2998.8	2997.1	2992.0	2986.8	2993.6	2993.6	2993.6	2990.3	2978.3	2964.6	2952.6
32.5°	2696.2	2699.6	2706.5	2711.6	2725.2	2740.7	2754.3	2761.1	2761.1	2752.6	2747.5
35°	2335.5	2340.6	2350.9	2364.5	2381.6	2400.4	2431.2	2438.1	2443.1	2443.1	2436.3
37.5°	1961.0	1959.3	1969.6	1981.5	1991.8	2005.5	2027.7	2032.9	2041.4	2038.0	2031.1
40°	1596.8	1588.3	1584.9	1588.3	1600.3	1595.1	1600.3	1596.8	1596.8	1584.9	1584.9
42.5°	1260.0	1249.8	1242.9	1237.9	1237.9	1225.8	1217.3	1208.8	1203.7	1195.1	1193.4
45°	971.1	959.1	950.6	947.1	942.1	926.7	916.4	906.1	894.2	890.8	892.5
47.5°	754.0	742.0	738.6	730.0	721.5	712.9	706.1	694.2	692.4	685.6	692.4
50°	581.3	577.9	572.8	569.3	564.2	557.4	550.5	543.7	540.2	540.2	541.9
52.5°	451.4	453.1	447.9	442.8	439.4	439.4	430.8	429.1	429.1	422.3	429.1
55°	345.4	343.6	345.4	341.9	341.9	336.8	336.8	331.7	331.7	326.5	330.0
57.5°	253.1	256.4	253.1	254.7	258.2	253.1	251.3	246.2	249.6	246.2	247.9
60°	196.6	196.6	196.6	194.9	194.9	193.2	193.2	191.5	191.5	188.0	191.5
62.5°	145.3	147.0	147.0	147.0	148.8	147.0	145.3	147.0	145.3	145.3	147.0
65°	95.8	97.5	97.5	95.8	99.2	95.8	97.5	99.2	100.8	99.2	100.8
67.5°	65.0	65.0	66.7	68.4	66.7	68.4	70.1	68.4	70.1	73.5	70.1
70°	47.9	49.6	49.6	47.9	46.2	47.9	46.2	51.3	51.3	51.3	54.7
72.5°	30.8	30.8	29.1	29.1	29.1	29.1	29.1	34.2	30.8	29.1	32.5
75°	17.1	18.8	18.8	13.7	15.4	18.8	13.7	15.4	20.5	17.1	20.5
77.5°	10.3	10.3	10.3	10.3	10.3	10.3	13.7	12.0	12.0	12.0	13.7
80°	8.5	6.8	6.8	5.1	6.8	6.8	6.8	10.3	8.5	8.5	10.3
82.5°	3.4	3.4	1.7	0.0	3.4	3.4	3.4	3.4	3.4	3.4	6.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	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: P248949

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5
2.5°	3498.0	3498.0	3496.3	3492.9	3486.0	3486.0	3484.4	3479.2	3475.8	3474.1	3474.1
5°	3480.9	3474.1	3467.3	3448.5	3448.5	3445.0	3434.8	3427.9	3424.5	3416.0	3412.6
7.5°	3465.6	3445.0	3433.1	3421.1	3405.7	3398.9	3386.9	3381.8	3369.8	3361.3	3356.1
10°	3427.9	3414.3	3398.9	3380.1	3368.1	3354.4	3340.7	3330.5	3315.1	3306.5	3299.7
12.5°	3402.3	3381.8	3368.1	3347.6	3327.1	3315.1	3296.3	3284.4	3268.9	3251.8	3241.6
15°	3378.4	3356.1	3337.3	3315.1	3292.9	3279.2	3257.0	3243.3	3221.1	3204.0	3192.0
17.5°	3342.5	3323.6	3303.1	3275.8	3255.3	3238.2	3214.2	3197.2	3176.6	3154.4	3142.4
20°	3304.8	3282.6	3262.1	3234.7	3214.2	3193.7	3169.8	3151.0	3127.0	3106.5	3092.9
22.5°	3255.3	3229.6	3212.5	3185.1	3161.2	3139.0	3116.8	3094.6	3072.3	3055.2	3039.8
25°	3183.4	3156.1	3137.3	3115.0	3092.9	3075.8	3048.4	3034.7	3012.5	2997.1	2981.7
27.5°	3080.8	3060.4	3043.3	3021.0	3002.2	2988.6	2968.0	2954.4	2935.5	2921.9	2909.9
30°	2930.5	2913.4	2897.9	2875.7	2862.1	2850.1	2831.2	2819.3	2805.6	2790.2	2786.8
32.5°	2728.7	2715.0	2699.6	2684.2	2673.9	2667.1	2651.7	2644.9	2631.2	2622.6	2614.1
35°	2424.3	2412.4	2403.9	2397.0	2393.6	2395.3	2391.9	2398.7	2402.1	2400.4	2402.1
37.5°	2026.0	2019.1	2022.6	2027.7	2044.8	2067.1	2087.5	2118.3	2138.8	2159.4	2178.2
40°	1581.5	1586.6	1600.3	1631.0	1675.5	1725.1	1771.3	1829.4	1887.5	1928.6	1966.1
42.5°	1193.4	1208.8	1242.9	1287.4	1354.1	1427.6	1499.4	1584.9	1655.0	1723.4	1771.3
45°	897.6	918.1	962.6	1024.1	1097.6	1183.1	1273.7	1369.4	1453.3	1523.4	1576.3
47.5°	699.3	718.1	762.6	827.5	918.1	1007.0	1101.0	1200.2	1287.4	1355.8	1402.0
50°	552.2	576.1	615.5	683.9	774.5	868.5	966.0	1063.4	1145.5	1203.7	1244.7
52.5°	434.3	456.5	494.1	565.9	658.3	752.3	842.9	938.6	1010.4	1066.8	1094.2
55°	336.8	357.4	396.6	456.5	543.7	636.0	726.6	808.7	875.4	916.4	942.1
57.5°	256.4	271.8	299.2	359.0	437.7	523.1	600.1	682.2	733.5	762.6	779.6
60°	194.9	206.9	236.0	282.1	353.9	427.4	492.4	554.0	595.0	618.9	636.0
62.5°	147.0	160.7	181.2	220.5	275.2	335.1	389.8	436.0	470.2	485.6	497.5
65°	100.8	111.1	126.5	157.3	203.4	246.2	288.9	323.2	345.4	362.5	369.3
67.5°	75.2	82.1	90.6	114.6	147.0	181.2	210.3	234.2	258.2	265.0	277.0
70°	56.4	61.6	70.1	87.2	106.0	129.9	153.9	167.6	184.7	196.6	200.1
72.5°	35.9	37.6	46.2	56.4	71.8	87.2	102.6	114.6	124.8	131.7	135.0
75°	20.5	30.8	30.8	41.0	51.3	58.1	68.4	76.9	82.1	87.2	87.2
77.5°	13.7	18.8	20.5	25.6	30.8	39.3	47.9	53.0	58.1	59.8	59.8
80°	12.0	13.7	13.7	18.8	22.2	29.1	34.2	35.9	39.3	41.0	44.5
82.5°	5.1	6.8	8.5	13.7	15.4	15.4	20.5	22.2	25.6	27.4	27.4
85°	1.7	3.4	3.4	5.1	8.5	10.3	12.0	13.7	15.4	15.4	17.1
87.5°	1.7	1.7	0.0	1.7	3.4	3.4	6.8	6.8	6.8	10.3	10.3
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: P248949

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5	3501.5
2.5°	3470.7	3472.4	3465.6	3463.9	3460.4	3462.1	3465.6
5°	3407.4	3409.1	3402.3	3395.5	3395.5	3393.7	3395.5
7.5°	3347.6	3349.3	3339.0	3335.6	3328.8	3330.5	3330.5
10°	3287.7	3287.7	3272.4	3270.6	3265.5	3263.8	3263.8
12.5°	3229.6	3224.5	3212.5	3205.7	3209.1	3198.9	3198.9
15°	3178.3	3169.8	3154.4	3149.2	3140.7	3137.3	3137.3
17.5°	3125.3	3118.5	3104.8	3094.6	3084.3	3082.6	3084.3
20°	3074.0	3067.2	3050.1	3043.3	3034.7	3034.7	3031.3
22.5°	3022.7	3015.9	3000.5	2995.4	2983.4	2983.4	2985.1
25°	2969.7	2964.6	2947.5	2944.1	2942.4	2935.5	2939.0
27.5°	2897.9	2894.5	2880.8	2875.7	2868.9	2867.2	2870.6
30°	2766.3	2761.1	2750.9	2745.8	2733.8	2735.5	2738.9
32.5°	2602.2	2595.3	2581.6	2576.5	2566.3	2562.8	2564.5
35°	2397.0	2391.9	2379.9	2379.9	2369.7	2366.2	2369.7
37.5°	2188.4	2193.5	2188.4	2193.5	2188.4	2186.7	2188.4
40°	1991.8	2010.6	2014.0	2032.9	2026.0	2036.2	2034.5
42.5°	1803.7	1834.5	1846.5	1861.8	1858.5	1865.3	1870.4
45°	1613.9	1639.6	1651.6	1661.8	1663.5	1667.0	1668.7
47.5°	1434.4	1455.0	1456.6	1468.6	1466.9	1466.9	1472.1
50°	1266.9	1280.6	1283.9	1292.5	1285.7	1282.3	1283.9
52.5°	1111.3	1125.0	1121.5	1125.0	1116.5	1113.0	1114.7
55°	952.3	959.1	959.1	959.1	948.9	948.9	948.9
57.5°	789.9	791.6	788.2	789.9	788.2	777.9	776.2
60°	641.2	641.2	639.4	641.2	636.0	630.9	630.9
62.5°	500.9	504.4	511.2	504.4	500.9	504.4	499.2
65°	374.5	381.3	379.5	383.0	381.3	381.3	377.8
67.5°	282.1	283.8	285.5	287.3	287.3	287.3	287.3
70°	206.9	212.0	210.3	210.3	210.3	210.3	220.5
72.5°	138.5	145.3	143.6	147.0	147.0	150.5	147.0
75°	94.0	100.8	97.5	102.6	100.8	97.5	106.0
77.5°	63.3	66.7	68.4	70.1	68.4	66.7	68.4
80°	44.5	47.9	46.2	47.9	47.9	47.9	49.6
82.5°	27.4	32.5	30.8	32.5	30.8	32.5	32.5
85°	18.8	20.5	17.1	20.5	18.8	18.8	22.2
87.5°	12.0	10.3	10.3	12.0	10.3	12.0	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)