

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: P248931

Luminaire Tested: **LD8B80D010 ER8B80935 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248931
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 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5454.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

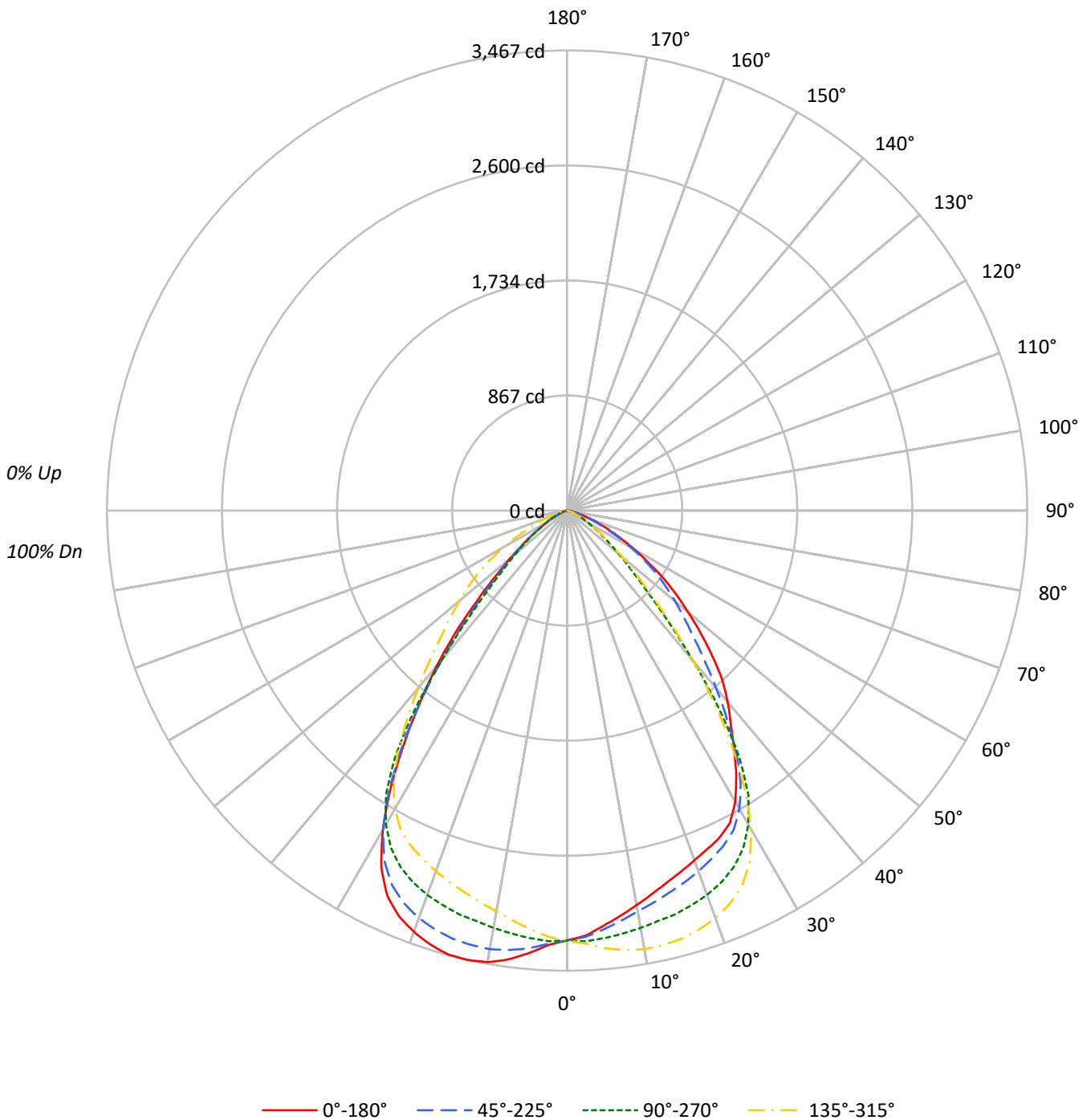
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	99845	99845	99845	99845
5°	97193	100078	103653	100078
10°	94503	99948	108164	99948
15°	92615	100542	110534	100542
20°	91985	101117	110817	101117
25°	92467	100912	109037	100912
30°	90181	97217	98965	97217
35°	82490	84809	80464	84809
40°	75734	58996	61605	58996
45°	67293	35991	41642	35991
50°	56958	24039	26697	24039
55°	47176	16403	17338	16403
60°	35980	10922	11015	10922
65°	25494	6808	6231	6808
70°	18383	4562	4138	4562
75°	11676	2264	1882	2264
80°	8151	1687	1403	1687
85°	7288	0	566	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	5.7
10°-20°	892.4	16.4
20°-30°	1351.3	24.8
30°-40°	1354.4	24.8
40°-50°	850.5	15.6
50°-60°	453.2	8.3
60°-70°	186.4	3.4
70°-80°	49.2	0.9
80°-90°	8.3	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°	2552.0	46.8
0°-40°	3906.4	71.6
0°-60°	5210.1	95.5
0°-90°	5454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5454.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3238	3238	3238	3238	3238	
5°	3140	3233	3349	3233	3140	296
15°	2901	3149	3462	3149	2901	821
25°	2718	2966	3205	2966	2718	1246
35°	2191	2253	2138	2253	2191	1373
45°	1543	825	955	825	1543	1187
55°	878	305	322	305	878	782
65°	349	93	85	93	349	362
75°	98	19	16	19	98	111
85°	21	0	2	0	21	23
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°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3204.7	3201.5	3199.9	3203.1	3204.7	3211.0	3209.4	3212.6	3212.6	3214.2	3217.3
5°	3139.9	3138.2	3139.9	3139.9	3146.2	3152.5	3150.9	3155.7	3158.8	3166.7	3169.9
7.5°	3079.8	3079.8	3078.2	3084.5	3087.7	3097.2	3095.5	3103.5	3108.2	3116.1	3127.2
10°	3018.1	3018.1	3019.7	3024.4	3026.0	3040.2	3040.2	3051.3	3057.6	3065.5	3079.8
12.5°	2958.0	2958.0	2967.5	2964.4	2970.7	2981.7	2986.5	2997.5	3007.0	3022.9	3037.1
15°	2901.1	2901.1	2904.3	2912.2	2916.9	2931.2	2939.0	2951.7	2962.8	2978.6	2999.2
17.5°	2852.1	2850.5	2852.1	2861.6	2871.1	2883.7	2890.0	2905.9	2916.9	2937.5	2956.5
20°	2803.1	2806.3	2806.3	2814.2	2820.5	2836.3	2842.6	2860.0	2872.7	2891.6	2913.8
22.5°	2760.4	2758.9	2758.9	2769.9	2774.7	2788.9	2795.2	2811.0	2825.2	2841.0	2861.6
25°	2717.7	2714.5	2720.9	2722.5	2725.6	2741.4	2746.2	2757.2	2771.5	2785.7	2806.3
27.5°	2654.5	2651.3	2652.9	2659.2	2664.0	2676.6	2679.8	2690.8	2701.9	2714.5	2732.0
30°	2532.7	2529.6	2528.0	2539.1	2543.8	2553.3	2558.0	2577.0	2580.2	2594.4	2607.0
32.5°	2371.5	2369.9	2373.1	2382.5	2387.3	2400.0	2406.3	2417.3	2425.2	2433.2	2445.8
35°	2191.3	2188.1	2191.3	2200.8	2200.8	2211.8	2216.6	2221.3	2219.7	2221.3	2218.1
37.5°	2023.7	2022.1	2023.7	2028.4	2023.7	2028.4	2023.7	2014.2	1996.8	1977.8	1958.8
40°	1881.4	1882.9	1873.5	1879.8	1862.4	1859.3	1841.9	1818.1	1783.4	1745.4	1691.7
42.5°	1729.6	1724.9	1718.6	1721.7	1707.5	1696.4	1667.9	1637.9	1593.6	1530.4	1465.6
45°	1543.1	1541.5	1538.3	1536.7	1527.2	1516.2	1492.4	1457.7	1408.7	1343.9	1266.4
47.5°	1361.2	1356.5	1356.5	1358.0	1347.0	1345.4	1326.4	1296.4	1253.7	1190.5	1109.9
50°	1187.3	1185.7	1188.9	1195.2	1187.3	1184.2	1171.5	1151.0	1113.0	1059.3	983.3
52.5°	1030.8	1029.2	1032.4	1040.3	1037.1	1040.3	1027.7	1011.8	986.5	934.3	868.0
55°	877.5	877.5	877.5	886.9	886.9	886.9	880.6	871.2	847.4	809.5	747.8
57.5°	717.8	719.3	728.8	730.4	728.8	732.0	730.4	720.9	705.2	678.3	630.8
60°	583.4	583.4	588.1	592.9	591.3	592.9	592.9	588.1	572.3	550.2	512.3
62.5°	461.6	466.4	463.2	466.4	472.7	466.4	463.2	460.1	449.0	434.8	403.1
65°	349.4	352.6	352.6	354.1	350.9	352.6	346.3	341.5	335.2	319.4	298.8
67.5°	265.6	265.6	265.6	265.6	264.0	262.4	260.9	256.1	245.1	238.8	216.6
70°	203.9	194.4	194.4	194.4	194.4	196.1	191.3	185.0	181.8	170.8	154.9
72.5°	135.9	139.1	135.9	135.9	132.8	134.4	128.1	124.9	121.8	115.4	105.9
75°	98.0	90.1	93.3	94.9	90.1	93.3	86.9	80.6	80.6	75.9	71.1
77.5°	63.3	61.7	63.3	64.8	63.3	61.7	58.5	55.3	55.3	53.8	49.0
80°	45.9	44.3	44.3	44.3	42.7	44.3	41.1	41.1	37.9	36.4	33.2
82.5°	30.1	30.1	28.4	30.1	28.4	30.1	25.3	25.3	25.3	23.7	20.6
85°	20.6	17.4	17.4	19.0	15.8	19.0	17.4	15.8	14.3	14.3	12.6
87.5°	9.5	11.1	9.5	11.1	9.5	9.5	11.1	9.5	9.5	6.3	6.3
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°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3222.1	3223.6	3223.6	3230.0	3233.1	3234.7	3234.7	3247.4	3242.6	3245.8	3248.9
5°	3176.2	3185.7	3188.9	3188.9	3206.2	3212.6	3218.9	3233.1	3234.7	3244.2	3255.2
7.5°	3131.9	3143.0	3149.4	3163.6	3174.6	3185.7	3204.7	3214.2	3223.6	3236.3	3250.5
10°	3089.2	3101.9	3114.6	3125.6	3143.0	3157.2	3169.9	3192.0	3203.1	3220.5	3239.4
12.5°	3048.2	3065.5	3076.6	3095.5	3114.6	3127.2	3146.2	3166.7	3184.1	3201.5	3223.6
15°	3011.8	3032.4	3045.0	3065.5	3086.1	3103.5	3124.1	3149.4	3162.0	3182.6	3203.1
17.5°	2972.2	2994.4	3010.2	3029.2	3054.5	3073.4	3090.9	3116.1	3131.9	3154.1	3177.8
20°	2931.2	2953.3	2972.2	2991.2	3016.5	3035.5	3056.0	3081.4	3098.7	3120.9	3139.9
22.5°	2882.2	2902.7	2923.2	2945.4	2970.7	2986.5	3010.2	3032.4	3051.3	3071.9	3090.9
25°	2818.9	2844.2	2860.0	2880.5	2901.1	2918.5	2943.8	2965.9	2981.7	3000.7	3018.1
27.5°	2744.6	2763.6	2776.2	2793.6	2814.2	2830.0	2848.9	2871.1	2886.9	2904.3	2916.9
30°	2618.1	2635.5	2646.6	2659.2	2679.8	2694.0	2709.8	2730.3	2741.4	2754.1	2765.2
32.5°	2452.1	2466.3	2472.7	2482.2	2496.4	2510.6	2523.3	2540.7	2545.4	2553.3	2553.3
35°	2211.8	2215.0	2213.4	2216.6	2222.9	2230.8	2241.8	2252.9	2259.2	2259.2	2254.5
37.5°	1930.4	1911.4	1890.9	1875.1	1870.3	1867.1	1873.5	1878.2	1884.6	1887.7	1879.8
40°	1637.9	1595.2	1549.4	1508.2	1479.8	1467.2	1462.4	1465.6	1465.6	1476.6	1476.6
42.5°	1386.6	1320.1	1252.2	1190.5	1149.4	1117.8	1103.5	1103.5	1105.1	1113.0	1117.8
45°	1177.9	1094.0	1015.0	947.0	890.1	849.0	830.0	825.3	823.7	826.8	837.9
47.5°	1018.2	931.2	849.0	765.2	705.2	664.0	646.6	640.3	634.0	640.3	641.9
50°	893.3	803.2	716.2	632.4	569.1	532.8	510.6	501.1	499.6	499.6	502.8
52.5°	779.4	695.7	608.7	523.3	456.9	422.1	401.6	396.8	390.5	396.8	396.8
55°	671.9	588.1	502.8	422.1	366.8	330.5	311.4	305.1	301.9	306.7	306.7
57.5°	555.0	483.8	404.8	332.0	276.7	251.4	237.1	229.3	227.6	230.8	227.6
60°	455.3	395.3	327.3	260.9	218.2	191.3	180.3	177.1	173.9	177.1	177.1
62.5°	360.4	309.9	254.5	203.9	167.6	148.6	135.9	135.9	134.4	134.4	135.9
65°	267.2	227.6	188.1	145.4	117.0	102.8	93.3	93.3	91.7	93.3	91.7
67.5°	194.4	167.6	135.9	105.9	83.8	75.9	69.6	64.8	68.0	64.8	63.3
70°	142.3	120.1	98.0	80.6	64.8	56.9	52.2	50.6	47.4	47.4	47.4
72.5°	94.9	80.6	66.4	52.2	42.7	34.8	33.2	30.1	26.9	28.4	31.6
75°	63.3	53.8	47.4	37.9	28.4	28.4	19.0	19.0	15.8	19.0	14.3
77.5°	44.3	36.4	28.4	23.7	19.0	17.4	12.6	12.6	11.1	11.1	11.1
80°	31.6	26.9	20.6	17.4	12.6	12.6	11.1	9.5	7.9	7.9	9.5
82.5°	19.0	14.3	14.3	12.6	7.9	6.3	4.8	6.3	3.2	3.2	3.2
85°	11.1	9.5	7.9	4.8	3.2	3.2	1.6	0.0	1.6	1.6	0.0
87.5°	6.3	3.2	3.2	1.6	0.0	1.6	1.6	0.0	0.0	0.0	3.2
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°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3256.9	3255.2	3258.4	3258.4	3267.9	3266.3	3271.1	3271.1	3267.9	3269.5	3275.8
5°	3267.9	3272.7	3282.1	3290.1	3304.2	3310.6	3318.5	3326.4	3328.0	3332.7	3337.5
7.5°	3267.9	3283.7	3294.8	3309.0	3328.0	3339.1	3356.4	3370.7	3377.0	3384.9	3394.4
10°	3261.6	3277.4	3297.9	3313.7	3337.5	3354.9	3372.2	3394.4	3403.9	3416.5	3429.2
12.5°	3248.9	3266.3	3288.4	3309.0	3335.9	3351.7	3373.8	3394.4	3408.6	3426.0	3440.3
15°	3230.0	3250.5	3271.1	3291.6	3320.1	3339.1	3359.6	3383.3	3397.6	3416.5	3429.2
17.5°	3199.9	3222.1	3241.1	3260.0	3286.9	3309.0	3328.0	3350.1	3364.4	3380.2	3397.6
20°	3163.6	3184.1	3204.7	3220.5	3247.4	3266.3	3286.9	3307.4	3318.5	3321.7	3348.6
22.5°	3117.7	3131.9	3147.7	3173.1	3188.9	3206.2	3225.2	3244.2	3255.2	3272.7	3282.1
25°	3041.8	3056.0	3073.4	3084.5	3103.5	3117.7	3136.7	3157.2	3163.6	3176.2	3185.7
27.5°	2935.9	2943.8	2951.7	2961.2	2972.2	2980.2	2991.2	3000.7	3007.0	3013.4	3019.7
30°	2768.3	2768.3	2768.3	2762.0	2766.7	2771.5	2773.0	2771.5	2771.5	2769.9	2769.9
32.5°	2547.0	2534.3	2520.1	2507.5	2502.7	2496.4	2493.2	2488.5	2480.6	2475.8	2477.4
35°	2248.1	2219.7	2202.3	2186.5	2173.9	2164.4	2159.6	2154.9	2153.3	2147.0	2140.6
37.5°	1875.1	1854.5	1841.9	1832.4	1821.3	1811.8	1813.4	1815.0	1819.7	1816.6	1818.1
40°	1479.8	1475.1	1479.8	1468.7	1465.6	1468.7	1476.6	1487.7	1494.1	1500.4	1511.4
42.5°	1125.7	1133.5	1144.7	1144.7	1149.4	1155.7	1165.2	1182.6	1192.0	1203.1	1215.8
45°	847.4	856.9	871.2	875.8	879.0	886.9	898.0	912.2	918.5	928.0	939.1
47.5°	653.0	659.3	667.1	675.1	683.0	686.1	697.2	697.2	705.2	711.5	714.6
50°	509.1	515.4	521.7	526.5	529.6	534.4	537.5	542.3	543.8	547.0	548.6
52.5°	398.4	406.3	406.3	409.5	414.2	419.0	417.4	419.0	420.5	420.5	425.3
55°	311.4	311.4	316.2	316.2	319.4	317.8	319.4	319.4	319.4	319.4	320.9
57.5°	232.4	234.0	238.8	235.6	234.0	237.1	234.0	237.1	235.6	238.8	234.0
60°	178.6	178.6	180.3	180.3	181.8	181.8	181.8	180.3	180.3	178.6	178.6
62.5°	134.4	135.9	137.6	135.9	135.9	135.9	134.4	134.4	132.8	131.2	131.2
65°	90.1	88.6	91.7	88.6	90.1	90.1	88.6	90.1	85.4	86.9	85.4
67.5°	64.8	63.3	61.7	63.3	61.7	60.1	60.1	61.7	63.3	58.5	58.5
70°	42.7	44.3	42.7	44.3	45.9	45.9	44.3	42.7	44.3	41.1	42.7
72.5°	26.9	26.9	26.9	26.9	26.9	28.4	28.4	28.4	25.3	25.3	23.7
75°	12.6	17.4	14.3	12.6	17.4	17.4	15.8	15.8	14.3	14.3	14.3
77.5°	12.6	9.5	9.5	9.5	9.5	9.5	9.5	9.5	7.9	9.5	7.9
80°	6.3	6.3	6.3	4.8	6.3	6.3	7.9	6.3	6.3	4.8	7.9
82.5°	3.2	3.2	3.2	0.0	1.6	3.2	3.2	1.6	3.2	3.2	1.6
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: P248931

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3274.2	3272.7	3274.2	3275.8	3274.2	3272.7	3274.2	3275.8	3269.5	3267.9	3271.1
5°	3343.8	3343.8	3346.9	3348.6	3346.9	3343.8	3343.8	3337.5	3332.7	3328.0	3326.4
7.5°	3403.9	3407.1	3410.2	3411.7	3410.2	3407.1	3403.9	3394.4	3384.9	3377.0	3370.7
10°	3440.3	3445.0	3451.3	3454.4	3451.3	3445.0	3440.3	3429.2	3416.5	3403.9	3394.4
12.5°	3456.1	3460.8	3468.7	3467.1	3468.7	3460.8	3456.1	3440.3	3426.0	3408.6	3394.4
15°	3445.0	3451.3	3459.2	3462.4	3459.2	3451.3	3445.0	3429.2	3416.5	3397.6	3383.3
17.5°	3410.2	3419.7	3424.4	3429.2	3424.4	3419.7	3410.2	3397.6	3380.2	3364.4	3350.1
20°	3362.7	3369.1	3375.4	3377.0	3375.4	3369.1	3362.7	3348.6	3321.7	3318.5	3307.4
22.5°	3294.8	3299.6	3313.7	3309.0	3313.7	3299.6	3294.8	3282.1	3272.7	3255.2	3244.2
25°	3196.7	3201.5	3203.1	3204.7	3203.1	3201.5	3196.7	3185.7	3176.2	3163.6	3157.2
27.5°	3027.6	3027.6	3030.7	3032.4	3030.7	3027.6	3027.6	3019.7	3013.4	3007.0	3000.7
30°	2771.5	2771.5	2771.5	2779.4	2771.5	2771.5	2771.5	2769.9	2769.9	2771.5	2771.5
32.5°	2475.8	2472.7	2469.5	2472.7	2469.5	2472.7	2475.8	2477.4	2475.8	2480.6	2488.5
35°	2140.6	2139.1	2143.8	2137.5	2143.8	2139.1	2140.6	2140.6	2147.0	2153.3	2154.9
37.5°	1819.7	1816.6	1822.9	1816.6	1822.9	1816.6	1819.7	1818.1	1816.6	1819.7	1815.0
40°	1514.6	1517.7	1517.7	1530.4	1517.7	1517.7	1514.6	1511.4	1500.4	1494.1	1487.7
42.5°	1222.1	1231.6	1228.4	1237.9	1228.4	1231.6	1222.1	1215.8	1203.1	1192.0	1182.6
45°	945.4	951.8	951.8	954.9	951.8	951.8	945.4	939.1	928.0	918.5	912.2
47.5°	725.7	725.7	725.7	727.3	725.7	725.7	725.7	714.6	711.5	705.2	697.2
50°	551.8	553.3	555.0	556.5	555.0	553.3	551.8	548.6	547.0	543.8	542.3
52.5°	423.7	425.3	422.1	425.3	422.1	425.3	423.7	425.3	420.5	420.5	419.0
55°	320.9	319.4	320.9	322.5	320.9	319.4	320.9	320.9	319.4	319.4	319.4
57.5°	235.6	232.4	232.4	232.4	232.4	232.4	235.6	234.0	238.8	235.6	237.1
60°	175.5	177.1	177.1	178.6	177.1	177.1	175.5	178.6	178.6	180.3	180.3
62.5°	129.6	134.4	131.2	134.4	131.2	134.4	129.6	131.2	131.2	132.8	134.4
65°	83.8	83.8	83.8	85.4	83.8	83.8	83.8	85.4	86.9	85.4	90.1
67.5°	56.9	58.5	61.7	60.1	61.7	58.5	56.9	58.5	58.5	63.3	61.7
70°	45.9	41.1	41.1	45.9	41.1	41.1	45.9	42.7	41.1	44.3	42.7
72.5°	26.9	23.7	26.9	26.9	26.9	23.7	26.9	23.7	25.3	25.3	28.4
75°	14.3	12.6	11.1	15.8	11.1	12.6	14.3	14.3	14.3	14.3	15.8
77.5°	9.5	7.9	11.1	11.1	11.1	7.9	9.5	7.9	9.5	7.9	9.5
80°	4.8	6.3	4.8	7.9	4.8	6.3	4.8	7.9	4.8	6.3	6.3
82.5°	1.6	3.2	3.2	3.2	3.2	3.2	1.6	1.6	3.2	3.2	1.6
85°	0.0	3.2	1.6	1.6	1.6	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.0	0.0	1.6	0.0	0.0	1.6	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: P248931

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3271.1	3266.3	3267.9	3258.4	3258.4	3255.2	3256.9	3248.9	3245.8	3242.6	3247.4
5°	3318.5	3310.6	3304.2	3290.1	3282.1	3272.7	3267.9	3255.2	3244.2	3234.7	3233.1
7.5°	3356.4	3339.1	3328.0	3309.0	3294.8	3283.7	3267.9	3250.5	3236.3	3223.6	3214.2
10°	3372.2	3354.9	3337.5	3313.7	3297.9	3277.4	3261.6	3239.4	3220.5	3203.1	3192.0
12.5°	3373.8	3351.7	3335.9	3309.0	3288.4	3266.3	3248.9	3223.6	3201.5	3184.1	3166.7
15°	3359.6	3339.1	3320.1	3291.6	3271.1	3250.5	3230.0	3203.1	3182.6	3162.0	3149.4
17.5°	3328.0	3309.0	3286.9	3260.0	3241.1	3222.1	3199.9	3177.8	3154.1	3131.9	3116.1
20°	3286.9	3266.3	3247.4	3220.5	3204.7	3184.1	3163.6	3139.9	3120.9	3098.7	3081.4
22.5°	3225.2	3206.2	3188.9	3173.1	3147.7	3131.9	3117.7	3090.9	3071.9	3051.3	3032.4
25°	3136.7	3117.7	3103.5	3084.5	3073.4	3056.0	3041.8	3018.1	3000.7	2981.7	2965.9
27.5°	2991.2	2980.2	2972.2	2961.2	2951.7	2943.8	2935.9	2916.9	2904.3	2886.9	2871.1
30°	2773.0	2771.5	2766.7	2762.0	2768.3	2768.3	2768.3	2765.2	2754.1	2741.4	2730.3
32.5°	2493.2	2496.4	2502.7	2507.5	2520.1	2534.3	2547.0	2553.3	2553.3	2545.4	2540.7
35°	2159.6	2164.4	2173.9	2186.5	2202.3	2219.7	2248.1	2254.5	2259.2	2259.2	2252.9
37.5°	1813.4	1811.8	1821.3	1832.4	1841.9	1854.5	1875.1	1879.8	1887.7	1884.6	1878.2
40°	1476.6	1468.7	1465.6	1468.7	1479.8	1475.1	1479.8	1476.6	1476.6	1465.6	1465.6
42.5°	1165.2	1155.7	1149.4	1144.7	1144.7	1133.5	1125.7	1117.8	1113.0	1105.1	1103.5
45°	898.0	886.9	879.0	875.8	871.2	856.9	847.4	837.9	826.8	823.7	825.3
47.5°	697.2	686.1	683.0	675.1	667.1	659.3	653.0	641.9	640.3	634.0	640.3
50°	537.5	534.4	529.6	526.5	521.7	515.4	509.1	502.8	499.6	499.6	501.1
52.5°	417.4	419.0	414.2	409.5	406.3	406.3	398.4	396.8	396.8	390.5	396.8
55°	319.4	317.8	319.4	316.2	316.2	311.4	311.4	306.7	306.7	301.9	305.1
57.5°	234.0	237.1	234.0	235.6	238.8	234.0	232.4	227.6	230.8	227.6	229.3
60°	181.8	181.8	181.8	180.3	180.3	178.6	178.6	177.1	177.1	173.9	177.1
62.5°	134.4	135.9	135.9	135.9	137.6	135.9	134.4	135.9	134.4	134.4	135.9
65°	88.6	90.1	90.1	88.6	91.7	88.6	90.1	91.7	93.3	91.7	93.3
67.5°	60.1	60.1	61.7	63.3	61.7	63.3	64.8	63.3	64.8	68.0	64.8
70°	44.3	45.9	45.9	44.3	42.7	44.3	42.7	47.4	47.4	47.4	50.6
72.5°	28.4	28.4	26.9	26.9	26.9	26.9	26.9	31.6	28.4	26.9	30.1
75°	15.8	17.4	17.4	12.6	14.3	17.4	12.6	14.3	19.0	15.8	19.0
77.5°	9.5	9.5	9.5	9.5	9.5	9.5	12.6	11.1	11.1	11.1	12.6
80°	7.9	6.3	6.3	4.8	6.3	6.3	6.3	9.5	7.9	7.9	9.5
82.5°	3.2	3.2	1.6	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	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: P248931

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3234.7	3234.7	3233.1	3230.0	3223.6	3223.6	3222.1	3217.3	3214.2	3212.6	3212.6
5°	3218.9	3212.6	3206.2	3188.9	3188.9	3185.7	3176.2	3169.9	3166.7	3158.8	3155.7
7.5°	3204.7	3185.7	3174.6	3163.6	3149.4	3143.0	3131.9	3127.2	3116.1	3108.2	3103.5
10°	3169.9	3157.2	3143.0	3125.6	3114.6	3101.9	3089.2	3079.8	3065.5	3057.6	3051.3
12.5°	3146.2	3127.2	3114.6	3095.5	3076.6	3065.5	3048.2	3037.1	3022.9	3007.0	2997.5
15°	3124.1	3103.5	3086.1	3065.5	3045.0	3032.4	3011.8	2999.2	2978.6	2962.8	2951.7
17.5°	3090.9	3073.4	3054.5	3029.2	3010.2	2994.4	2972.2	2956.5	2937.5	2916.9	2905.9
20°	3056.0	3035.5	3016.5	2991.2	2972.2	2953.3	2931.2	2913.8	2891.6	2872.7	2860.0
22.5°	3010.2	2986.5	2970.7	2945.4	2923.2	2902.7	2882.2	2861.6	2841.0	2825.2	2811.0
25°	2943.8	2918.5	2901.1	2880.5	2860.0	2844.2	2818.9	2806.3	2785.7	2771.5	2757.2
27.5°	2848.9	2830.0	2814.2	2793.6	2776.2	2763.6	2744.6	2732.0	2714.5	2701.9	2690.8
30°	2709.8	2694.0	2679.8	2659.2	2646.6	2635.5	2618.1	2607.0	2594.4	2580.2	2577.0
32.5°	2523.3	2510.6	2496.4	2482.2	2472.7	2466.3	2452.1	2445.8	2433.2	2425.2	2417.3
35°	2241.8	2230.8	2222.9	2216.6	2213.4	2215.0	2211.8	2218.1	2221.3	2219.7	2221.3
37.5°	1873.5	1867.1	1870.3	1875.1	1890.9	1911.4	1930.4	1958.8	1977.8	1996.8	2014.2
40°	1462.4	1467.2	1479.8	1508.2	1549.4	1595.2	1637.9	1691.7	1745.4	1783.4	1818.1
42.5°	1103.5	1117.8	1149.4	1190.5	1252.2	1320.1	1386.6	1465.6	1530.4	1593.6	1637.9
45°	830.0	849.0	890.1	947.0	1015.0	1094.0	1177.9	1266.4	1343.9	1408.7	1457.7
47.5°	646.6	664.0	705.2	765.2	849.0	931.2	1018.2	1109.9	1190.5	1253.7	1296.4
50°	510.6	532.8	569.1	632.4	716.2	803.2	893.3	983.3	1059.3	1113.0	1151.0
52.5°	401.6	422.1	456.9	523.3	608.7	695.7	779.4	868.0	934.3	986.5	1011.8
55°	311.4	330.5	366.8	422.1	502.8	588.1	671.9	747.8	809.5	847.4	871.2
57.5°	237.1	251.4	276.7	332.0	404.8	483.8	555.0	630.8	678.3	705.2	720.9
60°	180.3	191.3	218.2	260.9	327.3	395.3	455.3	512.3	550.2	572.3	588.1
62.5°	135.9	148.6	167.6	203.9	254.5	309.9	360.4	403.1	434.8	449.0	460.1
65°	93.3	102.8	117.0	145.4	188.1	227.6	267.2	298.8	319.4	335.2	341.5
67.5°	69.6	75.9	83.8	105.9	135.9	167.6	194.4	216.6	238.8	245.1	256.1
70°	52.2	56.9	64.8	80.6	98.0	120.1	142.3	154.9	170.8	181.8	185.0
72.5°	33.2	34.8	42.7	52.2	66.4	80.6	94.9	105.9	115.4	121.8	124.9
75°	19.0	28.4	28.4	37.9	47.4	53.8	63.3	71.1	75.9	80.6	80.6
77.5°	12.6	17.4	19.0	23.7	28.4	36.4	44.3	49.0	53.8	55.3	55.3
80°	11.1	12.6	12.6	17.4	20.6	26.9	31.6	33.2	36.4	37.9	41.1
82.5°	4.8	6.3	7.9	12.6	14.3	14.3	19.0	20.6	23.7	25.3	25.3
85°	1.6	3.2	3.2	4.8	7.9	9.5	11.1	12.6	14.3	14.3	15.8
87.5°	1.6	1.6	0.0	1.6	3.2	3.2	6.3	6.3	6.3	9.5	9.5
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: P248931

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3209.4	3211.0	3204.7	3203.1	3199.9	3201.5	3204.7
5°	3150.9	3152.5	3146.2	3139.9	3139.9	3138.2	3139.9
7.5°	3095.5	3097.2	3087.7	3084.5	3078.2	3079.8	3079.8
10°	3040.2	3040.2	3026.0	3024.4	3019.7	3018.1	3018.1
12.5°	2986.5	2981.7	2970.7	2964.4	2967.5	2958.0	2958.0
15°	2939.0	2931.2	2916.9	2912.2	2904.3	2901.1	2901.1
17.5°	2890.0	2883.7	2871.1	2861.6	2852.1	2850.5	2852.1
20°	2842.6	2836.3	2820.5	2814.2	2806.3	2806.3	2803.1
22.5°	2795.2	2788.9	2774.7	2769.9	2758.9	2758.9	2760.4
25°	2746.2	2741.4	2725.6	2722.5	2720.9	2714.5	2717.7
27.5°	2679.8	2676.6	2664.0	2659.2	2652.9	2651.3	2654.5
30°	2558.0	2553.3	2543.8	2539.1	2528.0	2529.6	2532.7
32.5°	2406.3	2400.0	2387.3	2382.5	2373.1	2369.9	2371.5
35°	2216.6	2211.8	2200.8	2200.8	2191.3	2188.1	2191.3
37.5°	2023.7	2028.4	2023.7	2028.4	2023.7	2022.1	2023.7
40°	1841.9	1859.3	1862.4	1879.8	1873.5	1882.9	1881.4
42.5°	1667.9	1696.4	1707.5	1721.7	1718.6	1724.9	1729.6
45°	1492.4	1516.2	1527.2	1536.7	1538.3	1541.5	1543.1
47.5°	1326.4	1345.4	1347.0	1358.0	1356.5	1356.5	1361.2
50°	1171.5	1184.2	1187.3	1195.2	1188.9	1185.7	1187.3
52.5°	1027.7	1040.3	1037.1	1040.3	1032.4	1029.2	1030.8
55°	880.6	886.9	886.9	886.9	877.5	877.5	877.5
57.5°	730.4	732.0	728.8	730.4	728.8	719.3	717.8
60°	592.9	592.9	591.3	592.9	588.1	583.4	583.4
62.5°	463.2	466.4	472.7	466.4	463.2	466.4	461.6
65°	346.3	352.6	350.9	354.1	352.6	352.6	349.4
67.5°	260.9	262.4	264.0	265.6	265.6	265.6	265.6
70°	191.3	196.1	194.4	194.4	194.4	194.4	203.9
72.5°	128.1	134.4	132.8	135.9	135.9	139.1	135.9
75°	86.9	93.3	90.1	94.9	93.3	90.1	98.0
77.5°	58.5	61.7	63.3	64.8	63.3	61.7	63.3
80°	41.1	44.3	42.7	44.3	44.3	44.3	45.9
82.5°	25.3	30.1	28.4	30.1	28.4	30.1	30.1
85°	17.4	19.0	15.8	19.0	17.4	17.4	20.6
87.5°	11.1	9.5	9.5	11.1	9.5	11.1	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)