

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: P248940

Luminaire Tested: **LD8B80D010 ER8B80940 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248940
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 ER8B80940 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5696.0 lumens
Efficiency: N/A
Efficacy: 76.6 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

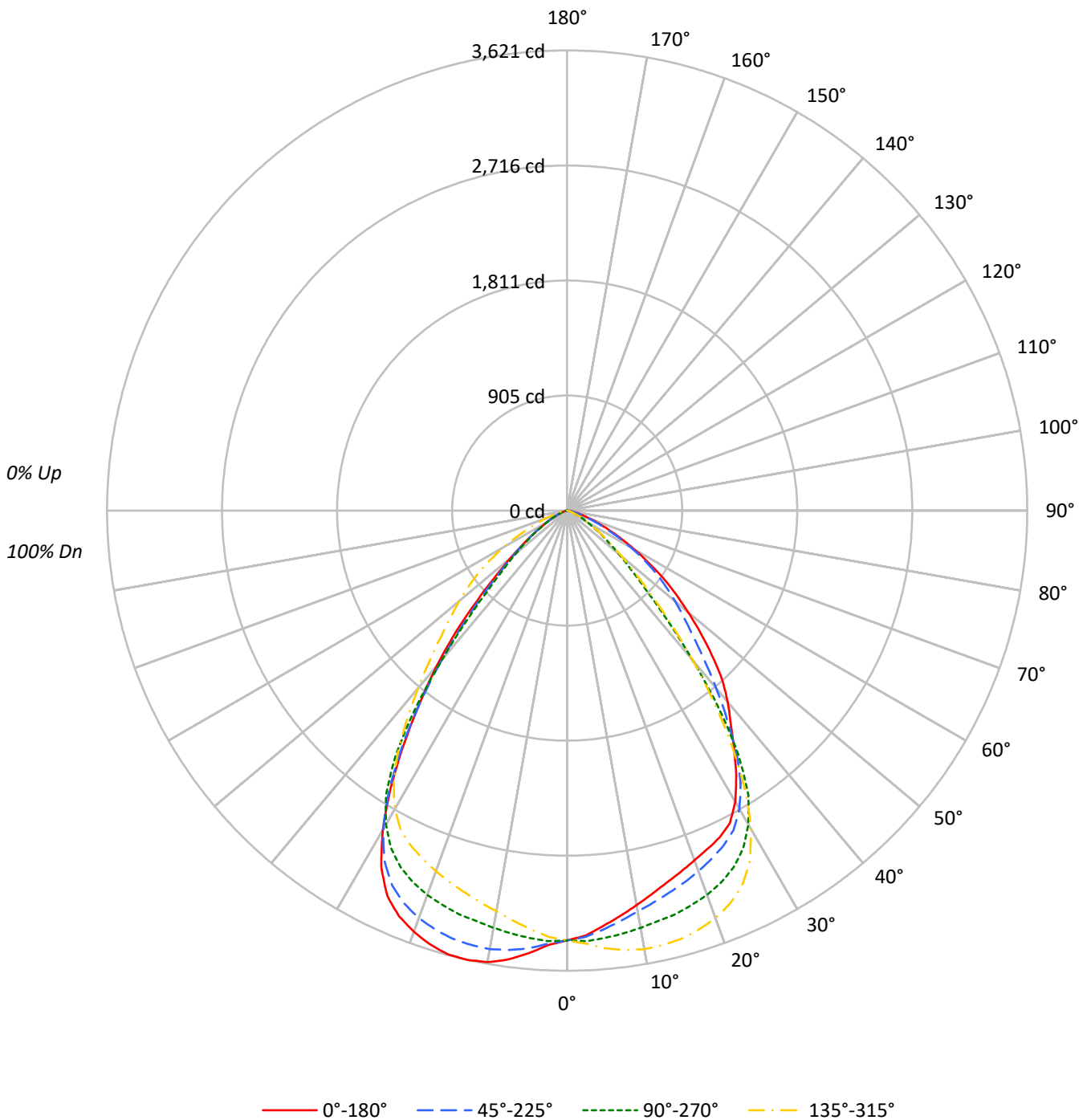
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	104273	104273	104273	104273
5°	101505	104520	108250	104520
10°	98695	104382	112964	104382
15°	96724	105002	115438	105002
20°	96067	105603	115733	105603
25°	96571	105390	113875	105390
30°	94183	101533	103356	101533
35°	86149	88573	84037	88573
40°	79095	61613	64338	61613
45°	70276	37587	43491	37587
50°	59486	25109	27882	25109
55°	49267	17134	18107	17134
60°	37577	11403	11508	11403
65°	26625	7107	6508	7107
70°	19204	4760	4319	4760
75°	12200	2359	1966	2359
80°	8506	1758	1456	1758
85°	7607	0	566	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	5.7
10°-20°	932.0	16.4
20°-30°	1411.3	24.8
30°-40°	1414.5	24.8
40°-50°	888.2	15.6
50°-60°	473.3	8.3
60°-70°	194.6	3.4
70°-80°	51.4	0.9
80°-90°	8.7	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°	2665.2	46.8
0°-40°	4079.7	71.6
0°-60°	5441.2	95.5
0°-90°	5696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5696.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3382	3382	3382	3382	3382	
5°	3279	3377	3497	3377	3279	309
15°	3030	3289	3616	3289	3030	857
25°	2838	3098	3347	3098	2838	1302
35°	2288	2353	2232	2353	2288	1434
45°	1612	862	997	862	1612	1239
55°	916	319	337	319	916	817
65°	365	97	89	97	365	379
75°	102	20	16	20	102	116
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°	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5
2.5°	3346.9	3343.5	3341.9	3345.2	3346.9	3353.5	3351.8	3355.1	3355.1	3356.8	3360.1
5°	3279.2	3277.5	3279.2	3279.2	3285.8	3292.4	3290.7	3295.7	3299.0	3307.3	3310.5
7.5°	3216.5	3216.5	3214.8	3221.3	3224.7	3234.6	3232.9	3241.2	3246.2	3254.4	3265.9
10°	3152.0	3152.0	3153.7	3158.6	3160.3	3175.1	3175.1	3186.7	3193.3	3201.6	3216.5
12.5°	3089.3	3089.3	3099.2	3095.9	3102.5	3114.0	3119.0	3130.5	3140.5	3157.0	3171.9
15°	3029.8	3029.8	3033.2	3041.4	3046.3	3061.2	3069.5	3082.7	3094.3	3110.8	3132.2
17.5°	2978.7	2977.0	2978.7	2988.6	2998.5	3011.7	3018.3	3034.8	3046.3	3067.8	3087.7
20°	2927.5	2930.8	2930.8	2939.0	2945.6	2962.1	2968.7	2986.9	3000.1	3019.9	3043.1
22.5°	2882.9	2881.3	2881.3	2892.8	2897.8	2912.6	2919.2	2935.7	2950.6	2967.1	2988.6
25°	2838.3	2835.0	2841.6	2843.3	2846.5	2863.1	2868.0	2879.6	2894.4	2909.3	2930.8
27.5°	2772.3	2769.0	2770.6	2777.2	2782.2	2795.4	2798.7	2810.2	2821.8	2835.0	2853.2
30°	2645.1	2641.8	2640.2	2651.8	2656.7	2666.6	2671.5	2691.4	2694.6	2709.5	2722.7
32.5°	2476.7	2475.1	2478.4	2488.2	2493.2	2506.5	2513.0	2524.6	2532.8	2541.1	2554.3
35°	2288.5	2285.2	2288.5	2298.4	2298.4	2310.0	2314.9	2319.8	2318.2	2319.8	2316.6
37.5°	2113.5	2111.8	2113.5	2118.4	2113.5	2118.4	2113.5	2103.6	2085.4	2065.6	2045.7
40°	1964.9	1966.5	1956.6	1963.2	1945.0	1941.8	1923.6	1898.8	1862.5	1822.9	1766.7
42.5°	1806.4	1801.4	1794.8	1798.1	1783.3	1771.6	1741.9	1710.6	1664.3	1598.3	1530.6
45°	1611.5	1609.9	1606.6	1604.9	1595.0	1583.5	1558.6	1522.4	1471.2	1403.5	1322.5
47.5°	1421.6	1416.7	1416.7	1418.3	1406.8	1405.1	1385.3	1353.9	1309.4	1243.3	1159.1
50°	1240.0	1238.3	1241.7	1248.3	1240.0	1236.7	1223.5	1202.1	1162.4	1106.3	1027.0
52.5°	1076.5	1074.9	1078.2	1086.4	1083.1	1086.4	1073.3	1056.7	1030.3	975.8	906.5
55°	916.4	916.4	916.4	926.3	926.3	926.3	919.7	909.8	885.0	845.4	781.0
57.5°	749.6	751.3	761.2	762.8	761.2	764.5	762.8	752.9	736.4	708.4	658.8
60°	609.3	609.3	614.2	619.2	617.5	619.2	619.2	614.2	597.7	574.6	535.0
62.5°	482.1	487.1	483.8	487.1	493.7	487.1	483.8	480.5	468.9	454.1	421.0
65°	364.9	368.2	368.2	369.9	366.5	368.2	361.6	356.7	350.1	333.6	312.1
67.5°	277.4	277.4	277.4	277.4	275.7	274.1	272.5	267.5	255.9	249.4	226.2
70°	213.0	203.1	203.1	203.1	203.1	204.8	199.8	193.2	189.9	178.3	161.8
72.5°	142.0	145.3	142.0	142.0	138.7	140.3	133.7	130.4	127.2	120.6	110.6
75°	102.4	94.1	97.4	99.1	94.1	97.4	90.8	84.2	84.2	79.2	74.3
77.5°	66.1	64.4	66.1	67.7	66.1	64.4	61.1	57.8	57.8	56.1	51.2
80°	47.9	46.2	46.2	46.2	44.6	46.2	43.0	43.0	39.6	38.0	34.7
82.5°	31.4	31.4	29.7	31.4	29.7	31.4	26.4	26.4	26.4	24.7	21.5
85°	21.5	18.1	18.1	19.8	16.5	19.8	18.1	16.5	14.9	14.9	13.2
87.5°	9.9	11.6	9.9	11.6	9.9	9.9	11.6	9.9	9.9	6.6	6.6
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°	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5
2.5°	3365.0	3366.7	3366.7	3373.3	3376.6	3378.2	3378.2	3391.5	3386.5	3389.8	3393.1
5°	3317.2	3327.0	3330.4	3330.4	3348.5	3355.1	3361.7	3376.6	3378.2	3388.1	3399.7
7.5°	3270.9	3282.4	3289.1	3303.9	3315.5	3327.0	3346.9	3356.8	3366.7	3379.9	3394.7
10°	3226.3	3239.6	3252.7	3264.3	3282.4	3297.3	3310.5	3333.6	3345.2	3363.4	3383.2
12.5°	3183.4	3201.6	3213.1	3232.9	3252.7	3265.9	3285.8	3307.3	3325.4	3343.5	3366.7
15°	3145.4	3166.9	3180.1	3201.6	3223.0	3241.2	3262.7	3289.1	3302.3	3323.8	3345.2
17.5°	3104.1	3127.3	3143.8	3163.6	3190.0	3209.8	3228.0	3254.4	3270.9	3294.0	3318.8
20°	3061.2	3084.3	3104.1	3124.0	3150.4	3170.2	3191.6	3218.1	3236.2	3259.3	3279.2
22.5°	3010.1	3031.5	3052.9	3076.0	3102.5	3119.0	3143.8	3166.9	3186.7	3208.2	3228.0
25°	2944.0	2970.4	2986.9	3008.4	3029.8	3048.0	3074.4	3097.5	3114.0	3133.9	3152.0
27.5°	2866.4	2886.2	2899.4	2917.6	2939.0	2955.5	2975.3	2998.5	3015.0	3033.2	3046.3
30°	2734.3	2752.5	2764.0	2777.2	2798.7	2813.6	2830.1	2851.5	2863.1	2876.3	2887.9
32.5°	2560.9	2575.8	2582.4	2592.3	2607.2	2622.0	2635.2	2653.4	2658.3	2666.6	2666.6
35°	2310.0	2313.2	2311.6	2314.9	2321.5	2329.7	2341.3	2352.9	2359.4	2359.4	2354.6
37.5°	2016.0	1996.3	1974.8	1958.3	1953.3	1950.0	1956.6	1961.5	1968.2	1971.5	1963.2
40°	1710.6	1666.0	1618.1	1575.2	1545.5	1532.3	1527.3	1530.6	1530.6	1542.1	1542.1
42.5°	1448.1	1378.7	1307.7	1243.3	1200.4	1167.4	1152.5	1152.5	1154.1	1162.4	1167.4
45°	1230.1	1142.6	1060.0	989.1	929.6	886.6	866.9	861.9	860.3	863.5	875.1
47.5°	1063.3	972.5	886.6	799.2	736.4	693.5	675.3	668.7	662.1	668.7	670.4
50°	932.9	838.8	748.0	660.5	594.4	556.4	533.3	523.4	521.7	521.7	525.1
52.5°	814.0	726.5	635.7	546.6	477.2	440.9	419.4	414.4	407.8	414.4	414.4
55°	701.7	614.2	525.1	440.9	383.0	345.1	325.3	318.7	315.3	320.3	320.3
57.5°	579.6	505.2	422.7	346.7	289.0	262.5	247.7	239.4	237.7	241.1	237.7
60°	475.5	412.8	341.8	272.5	227.9	199.8	188.3	184.9	181.6	184.9	184.9
62.5°	376.4	323.6	265.8	213.0	175.0	155.2	142.0	142.0	140.3	140.3	142.0
65°	279.1	237.7	196.5	151.9	122.2	107.3	97.4	97.4	95.8	97.4	95.8
67.5°	203.1	175.0	142.0	110.6	87.5	79.2	72.7	67.7	71.0	67.7	66.1
70°	148.6	125.5	102.4	84.2	67.7	59.5	54.5	52.8	49.5	49.5	49.5
72.5°	99.1	84.2	69.3	54.5	44.6	36.3	34.7	31.4	28.1	29.7	33.0
75°	66.1	56.1	49.5	39.6	29.7	29.7	19.8	19.8	16.5	19.8	14.9
77.5°	46.2	38.0	29.7	24.7	19.8	18.1	13.2	13.2	11.6	11.6	11.6
80°	33.0	28.1	21.5	18.1	13.2	13.2	11.6	9.9	8.2	8.2	9.9
82.5°	19.8	14.9	14.9	13.2	8.2	6.6	5.0	6.6	3.3	3.3	3.3
85°	11.6	9.9	8.2	5.0	3.3	3.3	1.6	0.0	1.6	1.6	0.0
87.5°	6.6	3.3	3.3	1.6	0.0	1.6	1.6	0.0	0.0	0.0	3.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5
2.5°	3401.4	3399.7	3403.0	3403.0	3412.9	3411.2	3416.2	3416.2	3412.9	3414.6	3421.2
5°	3412.9	3417.9	3427.7	3436.0	3450.9	3457.5	3465.7	3474.0	3475.7	3480.6	3485.6
7.5°	3412.9	3429.4	3441.0	3455.8	3475.7	3487.2	3505.4	3520.2	3526.8	3535.1	3545.0
10°	3406.3	3422.8	3444.3	3460.8	3485.6	3503.7	3521.9	3545.0	3554.9	3568.1	3581.3
12.5°	3393.1	3411.2	3434.3	3455.8	3483.9	3500.4	3523.5	3545.0	3559.9	3578.0	3592.9
15°	3373.3	3394.7	3416.2	3437.7	3467.4	3487.2	3508.7	3533.4	3548.3	3568.1	3581.3
17.5°	3341.9	3365.0	3384.9	3404.6	3432.7	3455.8	3475.7	3498.8	3513.7	3530.2	3548.3
20°	3303.9	3325.4	3346.9	3363.4	3391.5	3411.2	3432.7	3454.2	3465.7	3469.1	3497.1
22.5°	3256.1	3270.9	3287.4	3313.8	3330.4	3348.5	3368.4	3388.1	3399.7	3417.9	3427.7
25°	3176.8	3191.6	3209.8	3221.3	3241.2	3256.1	3275.9	3297.3	3303.9	3317.2	3327.0
27.5°	3066.2	3074.4	3082.7	3092.6	3104.1	3112.4	3124.0	3133.9	3140.5	3147.1	3153.7
30°	2891.1	2891.1	2891.1	2884.5	2889.5	2894.4	2896.1	2894.4	2894.4	2892.8	2892.8
32.5°	2660.0	2646.8	2631.9	2618.7	2613.8	2607.2	2603.8	2598.9	2590.7	2585.7	2587.3
35°	2347.9	2318.2	2300.0	2283.5	2270.4	2260.4	2255.5	2250.5	2248.9	2242.3	2235.6
37.5°	1958.3	1936.8	1923.6	1913.7	1902.1	1892.2	1893.8	1895.5	1900.4	1897.2	1898.8
40°	1545.5	1540.5	1545.5	1533.9	1530.6	1533.9	1542.1	1553.8	1560.3	1566.9	1578.5
42.5°	1175.6	1183.8	1195.5	1195.5	1200.4	1207.0	1216.9	1235.1	1244.9	1256.5	1269.7
45°	885.0	894.9	909.8	914.7	918.0	926.3	937.9	952.7	959.3	969.2	980.8
47.5°	681.9	688.5	696.8	705.0	713.3	716.6	728.1	728.1	736.4	743.0	746.3
50°	531.7	538.3	544.9	549.8	553.1	558.1	561.4	566.3	568.0	571.3	572.9
52.5°	416.1	424.4	424.4	427.6	432.6	437.5	435.9	437.5	439.2	439.2	444.1
55°	325.3	325.3	330.2	330.2	333.6	331.9	333.6	333.6	333.6	333.6	335.2
57.5°	242.7	244.4	249.4	246.0	244.4	247.7	244.4	247.7	246.0	249.4	244.4
60°	186.6	186.6	188.3	188.3	189.9	189.9	189.9	188.3	188.3	186.6	186.6
62.5°	140.3	142.0	143.7	142.0	142.0	142.0	140.3	140.3	138.7	137.0	137.0
65°	94.1	92.5	95.8	92.5	94.1	94.1	92.5	94.1	89.2	90.8	89.2
67.5°	67.7	66.1	64.4	66.1	64.4	62.7	62.7	64.4	66.1	61.1	61.1
70°	44.6	46.2	44.6	46.2	47.9	47.9	46.2	44.6	46.2	43.0	44.6
72.5°	28.1	28.1	28.1	28.1	28.1	29.7	29.7	29.7	26.4	26.4	24.7
75°	13.2	18.1	14.9	13.2	18.1	18.1	16.5	16.5	14.9	14.9	14.9
77.5°	13.2	9.9	9.9	9.9	9.9	9.9	9.9	9.9	8.2	9.9	8.2
80°	6.6	6.6	6.6	5.0	6.6	6.6	8.2	6.6	6.6	5.0	8.2
82.5°	3.3	3.3	3.3	0.0	1.6	3.3	3.3	1.6	3.3	3.3	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: P248940

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5
2.5°	3419.5	3417.9	3419.5	3421.2	3419.5	3417.9	3419.5	3421.2	3414.6	3412.9	3416.2
5°	3492.2	3492.2	3495.4	3497.1	3495.4	3492.2	3492.2	3485.6	3480.6	3475.7	3474.0
7.5°	3554.9	3558.2	3561.5	3563.1	3561.5	3558.2	3554.9	3545.0	3535.1	3526.8	3520.2
10°	3592.9	3597.9	3604.5	3607.7	3604.5	3597.9	3592.9	3581.3	3568.1	3554.9	3545.0
12.5°	3609.4	3614.4	3622.6	3621.0	3622.6	3614.4	3609.4	3592.9	3578.0	3559.9	3545.0
15°	3597.9	3604.5	3612.7	3616.0	3612.7	3604.5	3597.9	3581.3	3568.1	3548.3	3533.4
17.5°	3561.5	3571.4	3576.4	3581.3	3576.4	3571.4	3561.5	3548.3	3530.2	3513.7	3498.8
20°	3512.0	3518.6	3525.2	3526.8	3525.2	3518.6	3512.0	3497.1	3469.1	3465.7	3454.2
22.5°	3441.0	3446.0	3460.8	3455.8	3460.8	3446.0	3441.0	3427.7	3417.9	3399.7	3388.1
25°	3338.6	3343.5	3345.2	3346.9	3345.2	3343.5	3338.6	3327.0	3317.2	3303.9	3297.3
27.5°	3161.9	3161.9	3165.2	3166.9	3165.2	3161.9	3161.9	3153.7	3147.1	3140.5	3133.9
30°	2894.4	2894.4	2894.4	2902.7	2894.4	2894.4	2894.4	2892.8	2892.8	2894.4	2894.4
32.5°	2585.7	2582.4	2579.1	2582.4	2579.1	2582.4	2585.7	2587.3	2585.7	2590.7	2598.9
35°	2235.6	2234.0	2239.0	2232.4	2239.0	2234.0	2235.6	2235.6	2242.3	2248.9	2250.5
37.5°	1900.4	1897.2	1903.8	1897.2	1903.8	1897.2	1900.4	1898.8	1897.2	1900.4	1895.5
40°	1581.8	1585.1	1585.1	1598.3	1585.1	1585.1	1581.8	1578.5	1566.9	1560.3	1553.8
42.5°	1276.3	1286.3	1282.9	1292.8	1282.9	1286.3	1276.3	1269.7	1256.5	1244.9	1235.1
45°	987.4	994.0	994.0	997.3	994.0	994.0	987.4	980.8	969.2	959.3	952.7
47.5°	757.8	757.8	757.8	759.5	757.8	757.8	757.8	746.3	743.0	736.4	728.1
50°	576.3	577.9	579.6	581.2	579.6	577.9	576.3	572.9	571.3	568.0	566.3
52.5°	442.5	444.1	440.9	444.1	440.9	444.1	442.5	444.1	439.2	439.2	437.5
55°	335.2	333.6	335.2	336.8	335.2	333.6	335.2	335.2	333.6	333.6	333.6
57.5°	246.0	242.7	242.7	242.7	242.7	242.7	246.0	244.4	249.4	246.0	247.7
60°	183.3	184.9	184.9	186.6	184.9	184.9	183.3	186.6	186.6	188.3	188.3
62.5°	135.4	140.3	137.0	140.3	137.0	140.3	135.4	137.0	137.0	138.7	140.3
65°	87.5	87.5	87.5	89.2	87.5	87.5	87.5	89.2	90.8	89.2	94.1
67.5°	59.5	61.1	64.4	62.7	64.4	61.1	59.5	61.1	61.1	66.1	64.4
70°	47.9	43.0	43.0	47.9	43.0	43.0	47.9	44.6	43.0	46.2	44.6
72.5°	28.1	24.7	28.1	28.1	28.1	24.7	28.1	24.7	26.4	26.4	29.7
75°	14.9	13.2	11.6	16.5	11.6	13.2	14.9	14.9	14.9	14.9	16.5
77.5°	9.9	8.2	11.6	11.6	11.6	8.2	9.9	8.2	9.9	8.2	9.9
80°	5.0	6.6	5.0	8.2	5.0	6.6	5.0	8.2	5.0	6.6	6.6
82.5°	1.6	3.3	3.3	3.3	3.3	3.3	1.6	1.6	3.3	3.3	1.6
85°	0.0	3.3	1.6	1.6	1.6	3.3	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: P248940

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5
2.5°	3416.2	3411.2	3412.9	3403.0	3403.0	3399.7	3401.4	3393.1	3389.8	3386.5	3391.5
5°	3465.7	3457.5	3450.9	3436.0	3427.7	3417.9	3412.9	3399.7	3388.1	3378.2	3376.6
7.5°	3505.4	3487.2	3475.7	3455.8	3441.0	3429.4	3412.9	3394.7	3379.9	3366.7	3356.8
10°	3521.9	3503.7	3485.6	3460.8	3444.3	3422.8	3406.3	3383.2	3363.4	3345.2	3333.6
12.5°	3523.5	3500.4	3483.9	3455.8	3434.3	3411.2	3393.1	3366.7	3343.5	3325.4	3307.3
15°	3508.7	3487.2	3467.4	3437.7	3416.2	3394.7	3373.3	3345.2	3323.8	3302.3	3289.1
17.5°	3475.7	3455.8	3432.7	3404.6	3384.9	3365.0	3341.9	3318.8	3294.0	3270.9	3254.4
20°	3432.7	3411.2	3391.5	3363.4	3346.9	3325.4	3303.9	3279.2	3259.3	3236.2	3218.1
22.5°	3368.4	3348.5	3330.4	3313.8	3287.4	3270.9	3256.1	3228.0	3208.2	3186.7	3166.9
25°	3275.9	3256.1	3241.2	3221.3	3209.8	3191.6	3176.8	3152.0	3133.9	3114.0	3097.5
27.5°	3124.0	3112.4	3104.1	3092.6	3082.7	3074.4	3066.2	3046.3	3033.2	3015.0	2998.5
30°	2896.1	2894.4	2889.5	2884.5	2891.1	2891.1	2891.1	2887.9	2876.3	2863.1	2851.5
32.5°	2603.8	2607.2	2613.8	2618.7	2631.9	2646.8	2660.0	2666.6	2666.6	2658.3	2653.4
35°	2255.5	2260.4	2270.4	2283.5	2300.0	2318.2	2347.9	2354.6	2359.4	2359.4	2352.9
37.5°	1893.8	1892.2	1902.1	1913.7	1923.6	1936.8	1958.3	1963.2	1971.5	1968.2	1961.5
40°	1542.1	1533.9	1530.6	1533.9	1545.5	1540.5	1545.5	1542.1	1542.1	1530.6	1530.6
42.5°	1216.9	1207.0	1200.4	1195.5	1195.5	1183.8	1175.6	1167.4	1162.4	1154.1	1152.5
45°	937.9	926.3	918.0	914.7	909.8	894.9	885.0	875.1	863.5	860.3	861.9
47.5°	728.1	716.6	713.3	705.0	696.8	688.5	681.9	670.4	668.7	662.1	668.7
50°	561.4	558.1	553.1	549.8	544.9	538.3	531.7	525.1	521.7	521.7	523.4
52.5°	435.9	437.5	432.6	427.6	424.4	424.4	416.1	414.4	414.4	407.8	414.4
55°	333.6	331.9	333.6	330.2	330.2	325.3	325.3	320.3	320.3	315.3	318.7
57.5°	244.4	247.7	244.4	246.0	249.4	244.4	242.7	237.7	241.1	237.7	239.4
60°	189.9	189.9	189.9	188.3	188.3	186.6	186.6	184.9	184.9	181.6	184.9
62.5°	140.3	142.0	142.0	142.0	143.7	142.0	140.3	142.0	140.3	140.3	142.0
65°	92.5	94.1	94.1	92.5	95.8	92.5	94.1	95.8	97.4	95.8	97.4
67.5°	62.7	62.7	64.4	66.1	64.4	66.1	67.7	66.1	67.7	71.0	67.7
70°	46.2	47.9	47.9	46.2	44.6	46.2	44.6	49.5	49.5	49.5	52.8
72.5°	29.7	29.7	28.1	28.1	28.1	28.1	28.1	33.0	29.7	28.1	31.4
75°	16.5	18.1	18.1	13.2	14.9	18.1	13.2	14.9	19.8	16.5	19.8
77.5°	9.9	9.9	9.9	9.9	9.9	9.9	13.2	11.6	11.6	11.6	13.2
80°	8.2	6.6	6.6	5.0	6.6	6.6	6.6	9.9	8.2	8.2	9.9
82.5°	3.3	3.3	1.6	0.0	3.3	3.3	3.3	3.3	3.3	3.3	6.6
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	3.3	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: P248940

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5
2.5°	3378.2	3378.2	3376.6	3373.3	3366.7	3366.7	3365.0	3360.1	3356.8	3355.1	3355.1
5°	3361.7	3355.1	3348.5	3330.4	3330.4	3327.0	3317.2	3310.5	3307.3	3299.0	3295.7
7.5°	3346.9	3327.0	3315.5	3303.9	3289.1	3282.4	3270.9	3265.9	3254.4	3246.2	3241.2
10°	3310.5	3297.3	3282.4	3264.3	3252.7	3239.6	3226.3	3216.5	3201.6	3193.3	3186.7
12.5°	3285.8	3265.9	3252.7	3232.9	3213.1	3201.6	3183.4	3171.9	3157.0	3140.5	3130.5
15°	3262.7	3241.2	3223.0	3201.6	3180.1	3166.9	3145.4	3132.2	3110.8	3094.3	3082.7
17.5°	3228.0	3209.8	3190.0	3163.6	3143.8	3127.3	3104.1	3087.7	3067.8	3046.3	3034.8
20°	3191.6	3170.2	3150.4	3124.0	3104.1	3084.3	3061.2	3043.1	3019.9	3000.1	2986.9
22.5°	3143.8	3119.0	3102.5	3076.0	3052.9	3031.5	3010.1	2988.6	2967.1	2950.6	2935.7
25°	3074.4	3048.0	3029.8	3008.4	2986.9	2970.4	2944.0	2930.8	2909.3	2894.4	2879.6
27.5°	2975.3	2955.5	2939.0	2917.6	2899.4	2886.2	2866.4	2853.2	2835.0	2821.8	2810.2
30°	2830.1	2813.6	2798.7	2777.2	2764.0	2752.5	2734.3	2722.7	2709.5	2694.6	2691.4
32.5°	2635.2	2622.0	2607.2	2592.3	2582.4	2575.8	2560.9	2554.3	2541.1	2532.8	2524.6
35°	2341.3	2329.7	2321.5	2314.9	2311.6	2313.2	2310.0	2316.6	2319.8	2318.2	2319.8
37.5°	1956.6	1950.0	1953.3	1958.3	1974.8	1996.3	2016.0	2045.7	2065.6	2085.4	2103.6
40°	1527.3	1532.3	1545.5	1575.2	1618.1	1666.0	1710.6	1766.7	1822.9	1862.5	1898.8
42.5°	1152.5	1167.4	1200.4	1243.3	1307.7	1378.7	1448.1	1530.6	1598.3	1664.3	1710.6
45°	866.9	886.6	929.6	989.1	1060.0	1142.6	1230.1	1322.5	1403.5	1471.2	1522.4
47.5°	675.3	693.5	736.4	799.2	886.6	972.5	1063.3	1159.1	1243.3	1309.4	1353.9
50°	533.3	556.4	594.4	660.5	748.0	838.8	932.9	1027.0	1106.3	1162.4	1202.1
52.5°	419.4	440.9	477.2	546.6	635.7	726.5	814.0	906.5	975.8	1030.3	1056.7
55°	325.3	345.1	383.0	440.9	525.1	614.2	701.7	781.0	845.4	885.0	909.8
57.5°	247.7	262.5	289.0	346.7	422.7	505.2	579.6	658.8	708.4	736.4	752.9
60°	188.3	199.8	227.9	272.5	341.8	412.8	475.5	535.0	574.6	597.7	614.2
62.5°	142.0	155.2	175.0	213.0	265.8	323.6	376.4	421.0	454.1	468.9	480.5
65°	97.4	107.3	122.2	151.9	196.5	237.7	279.1	312.1	333.6	350.1	356.7
67.5°	72.7	79.2	87.5	110.6	142.0	175.0	203.1	226.2	249.4	255.9	267.5
70°	54.5	59.5	67.7	84.2	102.4	125.5	148.6	161.8	178.3	189.9	193.2
72.5°	34.7	36.3	44.6	54.5	69.3	84.2	99.1	110.6	120.6	127.2	130.4
75°	19.8	29.7	29.7	39.6	49.5	56.1	66.1	74.3	79.2	84.2	84.2
77.5°	13.2	18.1	19.8	24.7	29.7	38.0	46.2	51.2	56.1	57.8	57.8
80°	11.6	13.2	13.2	18.1	21.5	28.1	33.0	34.7	38.0	39.6	43.0
82.5°	5.0	6.6	8.2	13.2	14.9	14.9	19.8	21.5	24.7	26.4	26.4
85°	1.6	3.3	3.3	5.0	8.2	9.9	11.6	13.2	14.9	14.9	16.5
87.5°	1.6	1.6	0.0	1.6	3.3	3.3	6.6	6.6	6.6	9.9	9.9
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: P248940

CATALOG NUMBER: LD8B80D010 ER8B80940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5	3381.5
2.5°	3351.8	3353.5	3346.9	3345.2	3341.9	3343.5	3346.9
5°	3290.7	3292.4	3285.8	3279.2	3279.2	3277.5	3279.2
7.5°	3232.9	3234.6	3224.7	3221.3	3214.8	3216.5	3216.5
10°	3175.1	3175.1	3160.3	3158.6	3153.7	3152.0	3152.0
12.5°	3119.0	3114.0	3102.5	3095.9	3099.2	3089.3	3089.3
15°	3069.5	3061.2	3046.3	3041.4	3033.2	3029.8	3029.8
17.5°	3018.3	3011.7	2998.5	2988.6	2978.7	2977.0	2978.7
20°	2968.7	2962.1	2945.6	2939.0	2930.8	2930.8	2927.5
22.5°	2919.2	2912.6	2897.8	2892.8	2881.3	2881.3	2882.9
25°	2868.0	2863.1	2846.5	2843.3	2841.6	2835.0	2838.3
27.5°	2798.7	2795.4	2782.2	2777.2	2770.6	2769.0	2772.3
30°	2671.5	2666.6	2656.7	2651.8	2640.2	2641.8	2645.1
32.5°	2513.0	2506.5	2493.2	2488.2	2478.4	2475.1	2476.7
35°	2314.9	2310.0	2298.4	2298.4	2288.5	2285.2	2288.5
37.5°	2113.5	2118.4	2113.5	2118.4	2113.5	2111.8	2113.5
40°	1923.6	1941.8	1945.0	1963.2	1956.6	1966.5	1964.9
42.5°	1741.9	1771.6	1783.3	1798.1	1794.8	1801.4	1806.4
45°	1558.6	1583.5	1595.0	1604.9	1606.6	1609.9	1611.5
47.5°	1385.3	1405.1	1406.8	1418.3	1416.7	1416.7	1421.6
50°	1223.5	1236.7	1240.0	1248.3	1241.7	1238.3	1240.0
52.5°	1073.3	1086.4	1083.1	1086.4	1078.2	1074.9	1076.5
55°	919.7	926.3	926.3	926.3	916.4	916.4	916.4
57.5°	762.8	764.5	761.2	762.8	761.2	751.3	749.6
60°	619.2	619.2	617.5	619.2	614.2	609.3	609.3
62.5°	483.8	487.1	493.7	487.1	483.8	487.1	482.1
65°	361.6	368.2	366.5	369.9	368.2	368.2	364.9
67.5°	272.5	274.1	275.7	277.4	277.4	277.4	277.4
70°	199.8	204.8	203.1	203.1	203.1	203.1	213.0
72.5°	133.7	140.3	138.7	142.0	142.0	145.3	142.0
75°	90.8	97.4	94.1	99.1	97.4	94.1	102.4
77.5°	61.1	64.4	66.1	67.7	66.1	64.4	66.1
80°	43.0	46.2	44.6	46.2	46.2	46.2	47.9
82.5°	26.4	31.4	29.7	31.4	29.7	31.4	31.4
85°	18.1	19.8	16.5	19.8	18.1	18.1	21.5
87.5°	11.6	9.9	9.9	11.6	9.9	11.6	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)