

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: P248859

Luminaire Tested: **LD8B80D010 ER8B809730 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248859
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 ER8B809730 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5707.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

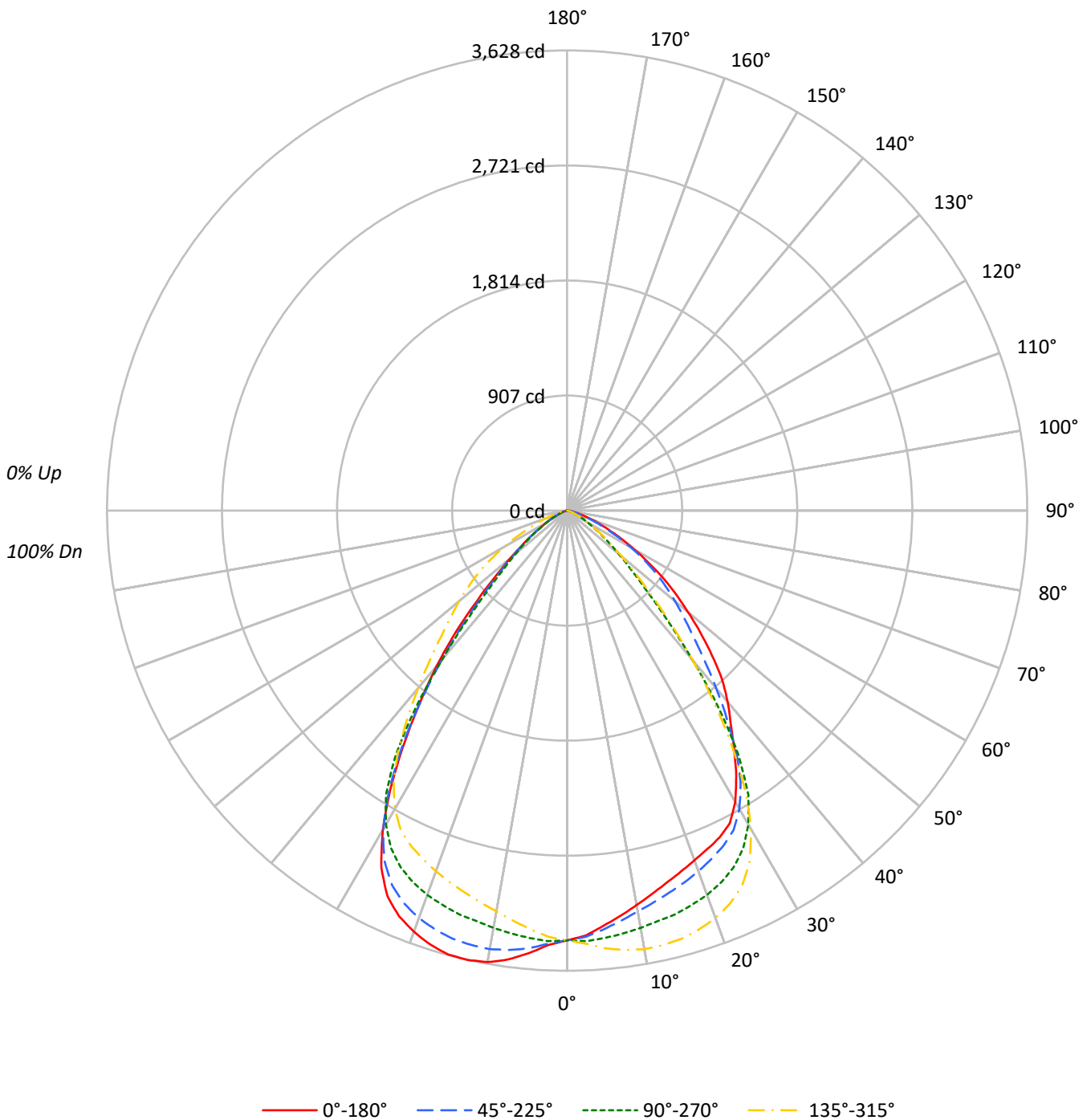
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.5	5.7
10°-20°	933.8	16.4
20°-30°	1414.0	24.8
30°-40°	1417.2	24.8
40°-50°	889.9	15.6
50°-60°	474.2	8.3
60°-70°	195.0	3.4
70°-80°	51.5	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°	2670.4	46.8
0°-40°	4087.6	71.6
0°-60°	5451.7	95.5
0°-90°	5707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5707.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3388	3388	3388	3388	3388	
5°	3286	3383	3504	3383	3286	310
15°	3036	3296	3623	3296	3036	859
25°	2844	3104	3353	3104	2844	1304
35°	2293	2357	2237	2357	2293	1437
45°	1615	864	999	864	1615	1242
55°	918	319	338	319	918	819
65°	366	98	89	98	366	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°	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1
2.5°	3353.3	3350.0	3348.4	3351.7	3353.3	3359.9	3358.3	3361.6	3361.6	3363.3	3366.5
5°	3285.5	3283.8	3285.5	3285.5	3292.1	3298.7	3297.1	3302.1	3305.3	3313.6	3316.9
7.5°	3222.7	3222.7	3221.0	3227.6	3230.9	3240.8	3239.1	3247.5	3252.4	3260.7	3272.2
10°	3158.1	3158.1	3159.7	3164.7	3166.4	3181.3	3181.3	3192.8	3199.4	3207.8	3222.7
12.5°	3095.3	3095.3	3105.2	3101.9	3108.5	3120.0	3125.0	3136.6	3146.5	3163.1	3178.0
15°	3035.7	3035.7	3039.0	3047.3	3052.2	3067.1	3075.4	3088.7	3100.2	3116.8	3138.3
17.5°	2984.4	2982.8	2984.4	2994.3	3004.3	3017.5	3024.1	3040.7	3052.2	3073.7	3093.6
20°	2933.1	2936.5	2936.5	2944.7	2951.3	2967.9	2974.5	2992.7	3005.9	3025.7	3049.0
22.5°	2888.5	2886.8	2886.8	2898.4	2903.4	2918.2	2924.8	2941.4	2956.3	2972.8	2994.3
25°	2843.8	2840.5	2847.1	2848.8	2852.0	2868.6	2873.5	2885.1	2900.0	2915.0	2936.5
27.5°	2777.6	2774.3	2776.0	2782.6	2787.5	2800.8	2804.1	2815.7	2827.2	2840.5	2858.7
30°	2650.2	2646.9	2645.3	2656.9	2661.8	2671.7	2676.7	2696.6	2699.8	2714.8	2728.0
32.5°	2481.5	2479.8	2483.2	2493.0	2498.0	2511.3	2517.9	2529.5	2537.7	2546.0	2559.2
35°	2292.9	2289.6	2292.9	2302.9	2302.9	2314.4	2319.4	2324.3	2322.7	2324.3	2321.0
37.5°	2117.6	2115.9	2117.6	2122.5	2117.6	2122.5	2117.6	2107.6	2089.5	2069.6	2049.7
40°	1968.7	1970.3	1960.4	1967.0	1948.8	1945.5	1927.3	1902.5	1866.1	1826.4	1770.2
42.5°	1809.9	1804.9	1798.3	1801.6	1786.7	1775.1	1745.3	1713.9	1667.5	1601.4	1533.5
45°	1614.6	1613.0	1609.7	1608.0	1598.1	1586.5	1561.7	1525.3	1474.0	1406.2	1325.1
47.5°	1424.4	1419.4	1419.4	1421.0	1409.5	1407.8	1388.0	1356.6	1311.9	1245.7	1161.3
50°	1242.4	1240.7	1244.1	1250.7	1242.4	1239.1	1225.9	1204.4	1164.7	1108.4	1029.0
52.5°	1078.6	1077.0	1080.3	1088.5	1085.2	1088.5	1075.3	1058.8	1032.3	977.7	908.2
55°	918.2	918.2	918.2	928.0	928.0	928.0	921.4	911.6	886.7	847.0	782.5
57.5°	751.1	752.7	762.6	764.3	762.6	766.0	764.3	754.3	737.9	709.7	660.1
60°	610.5	610.5	615.4	620.4	618.7	620.4	620.4	615.4	598.9	575.7	536.0
62.5°	483.1	488.0	484.7	488.0	494.6	488.0	484.7	481.4	469.8	454.9	421.8
65°	365.6	368.9	368.9	370.6	367.2	368.9	362.3	357.4	350.8	334.2	312.7
67.5°	278.0	278.0	278.0	278.0	276.3	274.6	273.0	268.0	256.4	249.8	226.6
70°	213.4	203.5	203.5	203.5	203.5	205.2	200.2	193.6	190.3	178.7	162.1
72.5°	142.2	145.6	142.2	142.2	139.0	140.6	134.0	130.7	127.4	120.8	110.9
75°	102.5	94.3	97.6	99.3	94.3	97.6	91.0	84.4	84.4	79.4	74.4
77.5°	66.2	64.6	66.2	67.8	66.2	64.6	61.2	57.9	57.9	56.2	51.3
80°	48.0	46.3	46.3	46.3	44.7	46.3	43.0	43.0	39.7	38.1	34.7
82.5°	31.5	31.5	29.8	31.5	29.8	31.5	26.5	26.5	26.5	24.8	21.5
85°	21.5	18.2	18.2	19.9	16.5	19.9	18.2	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°	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1
2.5°	3371.5	3373.2	3373.2	3379.8	3383.1	3384.7	3384.7	3398.0	3393.0	3396.4	3399.6
5°	3323.6	3333.5	3336.8	3336.8	3355.0	3361.6	3368.2	3383.1	3384.7	3394.7	3406.2
7.5°	3277.2	3288.8	3295.5	3310.3	3321.9	3333.5	3353.3	3363.3	3373.2	3386.4	3401.3
10°	3232.5	3245.8	3259.0	3270.6	3288.8	3303.7	3316.9	3340.1	3351.7	3369.9	3389.7
12.5°	3189.6	3207.8	3219.3	3239.1	3259.0	3272.2	3292.1	3313.6	3331.8	3350.0	3373.2
15°	3151.5	3173.0	3186.2	3207.8	3229.3	3247.5	3269.0	3295.5	3308.7	3330.2	3351.7
17.5°	3110.1	3133.3	3149.9	3169.7	3196.2	3216.0	3234.2	3260.7	3277.2	3300.4	3325.2
20°	3067.1	3090.3	3110.1	3130.0	3156.5	3176.3	3197.8	3224.3	3242.5	3265.6	3285.5
22.5°	3015.9	3037.4	3058.8	3082.0	3108.5	3125.0	3149.9	3173.0	3192.8	3214.4	3234.2
25°	2949.7	2976.2	2992.7	3014.2	3035.7	3053.9	3080.4	3103.5	3120.0	3139.9	3158.1
27.5°	2871.9	2891.8	2905.0	2923.2	2944.7	2961.3	2981.1	3004.3	3020.8	3039.0	3052.2
30°	2739.5	2757.8	2769.4	2782.6	2804.1	2819.0	2835.6	2857.0	2868.6	2881.9	2893.4
32.5°	2565.8	2580.7	2587.4	2597.3	2612.2	2627.1	2640.3	2658.5	2663.5	2671.7	2671.7
35°	2314.4	2317.7	2316.1	2319.4	2326.0	2334.2	2345.8	2357.4	2364.0	2364.0	2359.1
37.5°	2019.9	2000.1	1978.6	1962.0	1957.1	1953.7	1960.4	1965.3	1972.0	1975.3	1967.0
40°	1713.9	1669.2	1621.2	1578.2	1548.4	1535.2	1530.3	1533.5	1533.5	1545.1	1545.1
42.5°	1450.9	1381.3	1310.3	1245.7	1202.7	1169.6	1154.7	1154.7	1156.4	1164.7	1169.6
45°	1232.5	1144.8	1062.1	991.0	931.4	888.3	868.5	863.6	861.9	865.2	876.8
47.5°	1065.4	974.4	888.3	800.7	737.9	694.8	676.6	670.0	663.4	670.0	671.7
50°	934.7	840.4	749.4	661.7	595.5	557.5	534.3	524.4	522.8	522.8	526.1
52.5°	815.6	727.9	636.9	547.6	478.1	441.7	420.2	415.2	408.6	415.2	415.2
55°	703.1	615.4	526.1	441.7	383.8	345.8	325.9	319.3	316.0	320.9	320.9
57.5°	580.7	506.2	423.5	347.4	289.5	263.0	248.1	239.9	238.2	241.5	238.2
60°	476.5	413.6	342.4	273.0	228.3	200.2	188.6	185.3	181.9	185.3	185.3
62.5°	377.2	324.3	266.3	213.4	175.3	155.5	142.2	142.2	140.6	140.6	142.2
65°	279.6	238.2	196.9	152.2	122.4	107.5	97.6	97.6	95.9	97.6	95.9
67.5°	203.5	175.3	142.2	110.9	87.7	79.4	72.8	67.8	71.2	67.8	66.2
70°	148.9	125.7	102.5	84.4	67.8	59.6	54.6	52.9	49.6	49.6	49.6
72.5°	99.3	84.4	69.5	54.6	44.7	36.4	34.7	31.5	28.1	29.8	33.1
75°	66.2	56.2	49.6	39.7	29.8	29.8	19.9	19.9	16.5	19.9	14.9
77.5°	46.3	38.1	29.8	24.8	19.9	18.2	13.2	13.2	11.6	11.6	11.6
80°	33.1	28.1	21.5	18.2	13.2	13.2	11.6	9.9	8.2	8.2	9.9
82.5°	19.9	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°	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1
2.5°	3407.9	3406.2	3409.6	3409.6	3419.5	3417.8	3422.8	3422.8	3419.5	3421.2	3427.8
5°	3419.5	3424.5	3434.4	3442.7	3457.5	3464.2	3472.4	3480.7	3482.4	3487.3	3492.3
7.5°	3419.5	3436.1	3447.6	3462.5	3482.4	3494.0	3512.1	3527.0	3533.6	3541.9	3551.8
10°	3412.9	3429.4	3450.9	3467.5	3492.3	3510.5	3528.7	3551.8	3561.8	3575.0	3588.3
12.5°	3399.6	3417.8	3441.0	3462.5	3490.6	3507.2	3530.3	3551.8	3566.7	3584.9	3599.8
15°	3379.8	3401.3	3422.8	3444.3	3474.1	3494.0	3515.5	3540.3	3555.2	3575.0	3588.3
17.5°	3348.4	3371.5	3391.4	3411.2	3439.3	3462.5	3482.4	3505.5	3520.4	3537.0	3555.2
20°	3310.3	3331.8	3353.3	3369.9	3398.0	3417.8	3439.3	3460.9	3472.4	3475.8	3503.9
22.5°	3262.4	3277.2	3293.8	3320.2	3336.8	3355.0	3374.9	3394.7	3406.2	3424.5	3434.4
25°	3182.9	3197.8	3216.0	3227.6	3247.5	3262.4	3282.2	3303.7	3310.3	3323.6	3333.5
27.5°	3072.1	3080.4	3088.7	3098.5	3110.1	3118.4	3130.0	3139.9	3146.5	3153.1	3159.7
30°	2896.7	2896.7	2896.7	2890.1	2895.1	2900.0	2901.7	2900.0	2900.0	2898.4	2898.4
32.5°	2665.1	2651.9	2637.0	2623.8	2618.8	2612.2	2608.9	2603.9	2595.7	2590.7	2592.3
35°	2352.4	2322.7	2304.5	2287.9	2274.7	2264.8	2259.8	2254.9	2253.2	2246.6	2239.9
37.5°	1962.0	1940.5	1927.3	1917.4	1905.8	1895.9	1897.5	1899.2	1904.1	1900.8	1902.5
40°	1548.4	1543.5	1548.4	1536.9	1533.5	1536.9	1545.1	1556.8	1563.4	1570.0	1581.5
42.5°	1177.9	1186.1	1197.8	1197.8	1202.7	1209.3	1219.2	1237.5	1247.3	1258.9	1272.2
45°	886.7	896.7	911.6	916.5	919.8	928.0	939.7	954.5	961.1	971.1	982.7
47.5°	683.3	689.9	698.1	706.4	714.6	718.0	729.6	729.6	737.9	744.5	747.7
50°	532.7	539.3	545.9	550.9	554.2	559.2	562.5	567.4	569.1	572.4	574.0
52.5°	416.9	425.2	425.2	428.4	433.4	438.4	436.8	438.4	440.0	440.0	445.0
55°	325.9	325.9	330.9	330.9	334.2	332.5	334.2	334.2	334.2	334.2	335.8
57.5°	243.2	244.9	249.8	246.5	244.9	248.1	244.9	248.1	246.5	249.8	244.9
60°	186.9	186.9	188.6	188.6	190.3	190.3	190.3	188.6	188.6	186.9	186.9
62.5°	140.6	142.2	143.9	142.2	142.2	142.2	140.6	140.6	139.0	137.3	137.3
65°	94.3	92.7	95.9	92.7	94.3	94.3	92.7	94.3	89.3	91.0	89.3
67.5°	67.8	66.2	64.6	66.2	64.6	62.9	62.9	64.6	66.2	61.2	61.2
70°	44.7	46.3	44.7	46.3	48.0	48.0	46.3	44.7	46.3	43.0	44.7
72.5°	28.1	28.1	28.1	28.1	28.1	29.8	29.8	29.8	26.5	26.5	24.8
75°	13.2	18.2	14.9	13.2	18.2	18.2	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: P248859

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1
2.5°	3426.1	3424.5	3426.1	3427.8	3426.1	3424.5	3426.1	3427.8	3421.2	3419.5	3422.8
5°	3498.9	3498.9	3502.2	3503.9	3502.2	3498.9	3498.9	3492.3	3487.3	3482.4	3480.7
7.5°	3561.8	3565.1	3568.4	3570.0	3568.4	3565.1	3561.8	3551.8	3541.9	3533.6	3527.0
10°	3599.8	3604.8	3611.4	3614.7	3611.4	3604.8	3599.8	3588.3	3575.0	3561.8	3551.8
12.5°	3616.4	3621.4	3629.6	3628.0	3629.6	3621.4	3616.4	3599.8	3584.9	3566.7	3551.8
15°	3604.8	3611.4	3619.7	3623.0	3619.7	3611.4	3604.8	3588.3	3575.0	3555.2	3540.3
17.5°	3568.4	3578.3	3583.3	3588.3	3583.3	3578.3	3568.4	3555.2	3537.0	3520.4	3505.5
20°	3518.7	3525.4	3532.0	3533.6	3532.0	3525.4	3518.7	3503.9	3475.8	3472.4	3460.9
22.5°	3447.6	3452.6	3467.5	3462.5	3467.5	3452.6	3447.6	3434.4	3424.5	3406.2	3394.7
25°	3345.0	3350.0	3351.7	3353.3	3351.7	3350.0	3345.0	3333.5	3323.6	3310.3	3303.7
27.5°	3168.1	3168.1	3171.3	3173.0	3171.3	3168.1	3168.1	3159.7	3153.1	3146.5	3139.9
30°	2900.0	2900.0	2900.0	2908.3	2900.0	2900.0	2900.0	2898.4	2898.4	2900.0	2900.0
32.5°	2590.7	2587.4	2584.1	2587.4	2584.1	2587.4	2590.7	2592.3	2590.7	2595.7	2603.9
35°	2239.9	2238.3	2243.3	2236.7	2243.3	2238.3	2239.9	2239.9	2246.6	2253.2	2254.9
37.5°	1904.1	1900.8	1907.4	1900.8	1907.4	1900.8	1904.1	1902.5	1900.8	1904.1	1899.2
40°	1584.9	1588.1	1588.1	1601.4	1588.1	1588.1	1584.9	1581.5	1570.0	1563.4	1556.8
42.5°	1278.8	1288.7	1285.4	1295.3	1285.4	1288.7	1278.8	1272.2	1258.9	1247.3	1237.5
45°	989.3	995.9	995.9	999.2	995.9	995.9	989.3	982.7	971.1	961.1	954.5
47.5°	759.3	759.3	759.3	761.0	759.3	759.3	759.3	747.7	744.5	737.9	729.6
50°	577.4	579.0	580.7	582.3	580.7	579.0	577.4	574.0	572.4	569.1	567.4
52.5°	443.4	445.0	441.7	445.0	441.7	445.0	443.4	445.0	440.0	440.0	438.4
55°	335.8	334.2	335.8	337.5	335.8	334.2	335.8	335.8	334.2	334.2	334.2
57.5°	246.5	243.2	243.2	243.2	243.2	243.2	246.5	244.9	249.8	246.5	248.1
60°	183.6	185.3	185.3	186.9	185.3	185.3	183.6	186.9	186.9	188.6	188.6
62.5°	135.6	140.6	137.3	140.6	137.3	140.6	135.6	137.3	137.3	139.0	140.6
65°	87.7	87.7	87.7	89.3	87.7	87.7	87.7	89.3	91.0	89.3	94.3
67.5°	59.6	61.2	64.6	62.9	64.6	61.2	59.6	61.2	61.2	66.2	64.6
70°	48.0	43.0	43.0	48.0	43.0	43.0	48.0	44.7	43.0	46.3	44.7
72.5°	28.1	24.8	28.1	28.1	28.1	24.8	28.1	24.8	26.5	26.5	29.8
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: P248859

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1
2.5°	3422.8	3417.8	3419.5	3409.6	3409.6	3406.2	3407.9	3399.6	3396.4	3393.0	3398.0
5°	3472.4	3464.2	3457.5	3442.7	3434.4	3424.5	3419.5	3406.2	3394.7	3384.7	3383.1
7.5°	3512.1	3494.0	3482.4	3462.5	3447.6	3436.1	3419.5	3401.3	3386.4	3373.2	3363.3
10°	3528.7	3510.5	3492.3	3467.5	3450.9	3429.4	3412.9	3389.7	3369.9	3351.7	3340.1
12.5°	3530.3	3507.2	3490.6	3462.5	3441.0	3417.8	3399.6	3373.2	3350.0	3331.8	3313.6
15°	3515.5	3494.0	3474.1	3444.3	3422.8	3401.3	3379.8	3351.7	3330.2	3308.7	3295.5
17.5°	3482.4	3462.5	3439.3	3411.2	3391.4	3371.5	3348.4	3325.2	3300.4	3277.2	3260.7
20°	3439.3	3417.8	3398.0	3369.9	3353.3	3331.8	3310.3	3285.5	3265.6	3242.5	3224.3
22.5°	3374.9	3355.0	3336.8	3320.2	3293.8	3277.2	3262.4	3234.2	3214.4	3192.8	3173.0
25°	3282.2	3262.4	3247.5	3227.6	3216.0	3197.8	3182.9	3158.1	3139.9	3120.0	3103.5
27.5°	3130.0	3118.4	3110.1	3098.5	3088.7	3080.4	3072.1	3052.2	3039.0	3020.8	3004.3
30°	2901.7	2900.0	2895.1	2890.1	2896.7	2896.7	2896.7	2893.4	2881.9	2868.6	2857.0
32.5°	2608.9	2612.2	2618.8	2623.8	2637.0	2651.9	2665.1	2671.7	2671.7	2663.5	2658.5
35°	2259.8	2264.8	2274.7	2287.9	2304.5	2322.7	2352.4	2359.1	2364.0	2364.0	2357.4
37.5°	1897.5	1895.9	1905.8	1917.4	1927.3	1940.5	1962.0	1967.0	1975.3	1972.0	1965.3
40°	1545.1	1536.9	1533.5	1536.9	1548.4	1543.5	1548.4	1545.1	1545.1	1533.5	1533.5
42.5°	1219.2	1209.3	1202.7	1197.8	1197.8	1186.1	1177.9	1169.6	1164.7	1156.4	1154.7
45°	939.7	928.0	919.8	916.5	911.6	896.7	886.7	876.8	865.2	861.9	863.6
47.5°	729.6	718.0	714.6	706.4	698.1	689.9	683.3	671.7	670.0	663.4	670.0
50°	562.5	559.2	554.2	550.9	545.9	539.3	532.7	526.1	522.8	522.8	524.4
52.5°	436.8	438.4	433.4	428.4	425.2	425.2	416.9	415.2	415.2	408.6	415.2
55°	334.2	332.5	334.2	330.9	330.9	325.9	325.9	320.9	320.9	316.0	319.3
57.5°	244.9	248.1	244.9	246.5	249.8	244.9	243.2	238.2	241.5	238.2	239.9
60°	190.3	190.3	190.3	188.6	188.6	186.9	186.9	185.3	185.3	181.9	185.3
62.5°	140.6	142.2	142.2	142.2	143.9	142.2	140.6	142.2	140.6	140.6	142.2
65°	92.7	94.3	94.3	92.7	95.9	92.7	94.3	95.9	97.6	95.9	97.6
67.5°	62.9	62.9	64.6	66.2	64.6	66.2	67.8	66.2	67.8	71.2	67.8
70°	46.3	48.0	48.0	46.3	44.7	46.3	44.7	49.6	49.6	49.6	52.9
72.5°	29.8	29.8	28.1	28.1	28.1	28.1	28.1	33.1	29.8	28.1	31.5
75°	16.5	18.2	18.2	13.2	14.9	18.2	13.2	14.9	19.9	16.5	19.9
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: P248859

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1
2.5°	3384.7	3384.7	3383.1	3379.8	3373.2	3373.2	3371.5	3366.5	3363.3	3361.6	3361.6
5°	3368.2	3361.6	3355.0	3336.8	3336.8	3333.5	3323.6	3316.9	3313.6	3305.3	3302.1
7.5°	3353.3	3333.5	3321.9	3310.3	3295.5	3288.8	3277.2	3272.2	3260.7	3252.4	3247.5
10°	3316.9	3303.7	3288.8	3270.6	3259.0	3245.8	3232.5	3222.7	3207.8	3199.4	3192.8
12.5°	3292.1	3272.2	3259.0	3239.1	3219.3	3207.8	3189.6	3178.0	3163.1	3146.5	3136.6
15°	3269.0	3247.5	3229.3	3207.8	3186.2	3173.0	3151.5	3138.3	3116.8	3100.2	3088.7
17.5°	3234.2	3216.0	3196.2	3169.7	3149.9	3133.3	3110.1	3093.6	3073.7	3052.2	3040.7
20°	3197.8	3176.3	3156.5	3130.0	3110.1	3090.3	3067.1	3049.0	3025.7	3005.9	2992.7
22.5°	3149.9	3125.0	3108.5	3082.0	3058.8	3037.4	3015.9	2994.3	2972.8	2956.3	2941.4
25°	3080.4	3053.9	3035.7	3014.2	2992.7	2976.2	2949.7	2936.5	2915.0	2900.0	2885.1
27.5°	2981.1	2961.3	2944.7	2923.2	2905.0	2891.8	2871.9	2858.7	2840.5	2827.2	2815.7
30°	2835.6	2819.0	2804.1	2782.6	2769.4	2757.8	2739.5	2728.0	2714.8	2699.8	2696.6
32.5°	2640.3	2627.1	2612.2	2597.3	2587.4	2580.7	2565.8	2559.2	2546.0	2537.7	2529.5
35°	2345.8	2334.2	2326.0	2319.4	2316.1	2317.7	2314.4	2321.0	2324.3	2322.7	2324.3
37.5°	1960.4	1953.7	1957.1	1962.0	1978.6	2000.1	2019.9	2049.7	2069.6	2089.5	2107.6
40°	1530.3	1535.2	1548.4	1578.2	1621.2	1669.2	1713.9	1770.2	1826.4	1866.1	1902.5
42.5°	1154.7	1169.6	1202.7	1245.7	1310.3	1381.3	1450.9	1533.5	1601.4	1667.5	1713.9
45°	868.5	888.3	931.4	991.0	1062.1	1144.8	1232.5	1325.1	1406.2	1474.0	1525.3
47.5°	676.6	694.8	737.9	800.7	888.3	974.4	1065.4	1161.3	1245.7	1311.9	1356.6
50°	534.3	557.5	595.5	661.7	749.4	840.4	934.7	1029.0	1108.4	1164.7	1204.4
52.5°	420.2	441.7	478.1	547.6	636.9	727.9	815.6	908.2	977.7	1032.3	1058.8
55°	325.9	345.8	383.8	441.7	526.1	615.4	703.1	782.5	847.0	886.7	911.6
57.5°	248.1	263.0	289.5	347.4	423.5	506.2	580.7	660.1	709.7	737.9	754.3
60°	188.6	200.2	228.3	273.0	342.4	413.6	476.5	536.0	575.7	598.9	615.4
62.5°	142.2	155.5	175.3	213.4	266.3	324.3	377.2	421.8	454.9	469.8	481.4
65°	97.6	107.5	122.4	152.2	196.9	238.2	279.6	312.7	334.2	350.8	357.4
67.5°	72.8	79.4	87.7	110.9	142.2	175.3	203.5	226.6	249.8	256.4	268.0
70°	54.6	59.6	67.8	84.4	102.5	125.7	148.9	162.1	178.7	190.3	193.6
72.5°	34.7	36.4	44.7	54.6	69.5	84.4	99.3	110.9	120.8	127.4	130.7
75°	19.9	29.8	29.8	39.7	49.6	56.2	66.2	74.4	79.4	84.4	84.4
77.5°	13.2	18.2	19.9	24.8	29.8	38.1	46.3	51.3	56.2	57.9	57.9
80°	11.6	13.2	13.2	18.2	21.5	28.1	33.1	34.7	38.1	39.7	43.0
82.5°	5.0	6.6	8.2	13.2	14.9	14.9	19.9	21.5	24.8	26.5	26.5
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: P248859

CATALOG NUMBER: LD8B80D010 ER8B809730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1	3388.1
2.5°	3358.3	3359.9	3353.3	3351.7	3348.4	3350.0	3353.3
5°	3297.1	3298.7	3292.1	3285.5	3285.5	3283.8	3285.5
7.5°	3239.1	3240.8	3230.9	3227.6	3221.0	3222.7	3222.7
10°	3181.3	3181.3	3166.4	3164.7	3159.7	3158.1	3158.1
12.5°	3125.0	3120.0	3108.5	3101.9	3105.2	3095.3	3095.3
15°	3075.4	3067.1	3052.2	3047.3	3039.0	3035.7	3035.7
17.5°	3024.1	3017.5	3004.3	2994.3	2984.4	2982.8	2984.4
20°	2974.5	2967.9	2951.3	2944.7	2936.5	2936.5	2933.1
22.5°	2924.8	2918.2	2903.4	2898.4	2886.8	2886.8	2888.5
25°	2873.5	2868.6	2852.0	2848.8	2847.1	2840.5	2843.8
27.5°	2804.1	2800.8	2787.5	2782.6	2776.0	2774.3	2777.6
30°	2676.7	2671.7	2661.8	2656.9	2645.3	2646.9	2650.2
32.5°	2517.9	2511.3	2498.0	2493.0	2483.2	2479.8	2481.5
35°	2319.4	2314.4	2302.9	2302.9	2292.9	2289.6	2292.9
37.5°	2117.6	2122.5	2117.6	2122.5	2117.6	2115.9	2117.6
40°	1927.3	1945.5	1948.8	1967.0	1960.4	1970.3	1968.7
42.5°	1745.3	1775.1	1786.7	1801.6	1798.3	1804.9	1809.9
45°	1561.7	1586.5	1598.1	1608.0	1609.7	1613.0	1614.6
47.5°	1388.0	1407.8	1409.5	1421.0	1419.4	1419.4	1424.4
50°	1225.9	1239.1	1242.4	1250.7	1244.1	1240.7	1242.4
52.5°	1075.3	1088.5	1085.2	1088.5	1080.3	1077.0	1078.6
55°	921.4	928.0	928.0	928.0	918.2	918.2	918.2
57.5°	764.3	766.0	762.6	764.3	762.6	752.7	751.1
60°	620.4	620.4	618.7	620.4	615.4	610.5	610.5
62.5°	484.7	488.0	494.6	488.0	484.7	488.0	483.1
65°	362.3	368.9	367.2	370.6	368.9	368.9	365.6
67.5°	273.0	274.6	276.3	278.0	278.0	278.0	278.0
70°	200.2	205.2	203.5	203.5	203.5	203.5	213.4
72.5°	134.0	140.6	139.0	142.2	142.2	145.6	142.2
75°	91.0	97.6	94.3	99.3	97.6	94.3	102.5
77.5°	61.2	64.6	66.2	67.8	66.2	64.6	66.2
80°	43.0	46.3	44.7	46.3	46.3	46.3	48.0
82.5°	26.5	31.5	29.8	31.5	29.8	31.5	31.5
85°	18.2	19.9	16.5	19.9	18.2	18.2	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)