

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: P248551

Luminaire Tested: **LD8B60D010 ER8B60830 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248551
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: LD8B60D010 ER8B60830 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5998.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

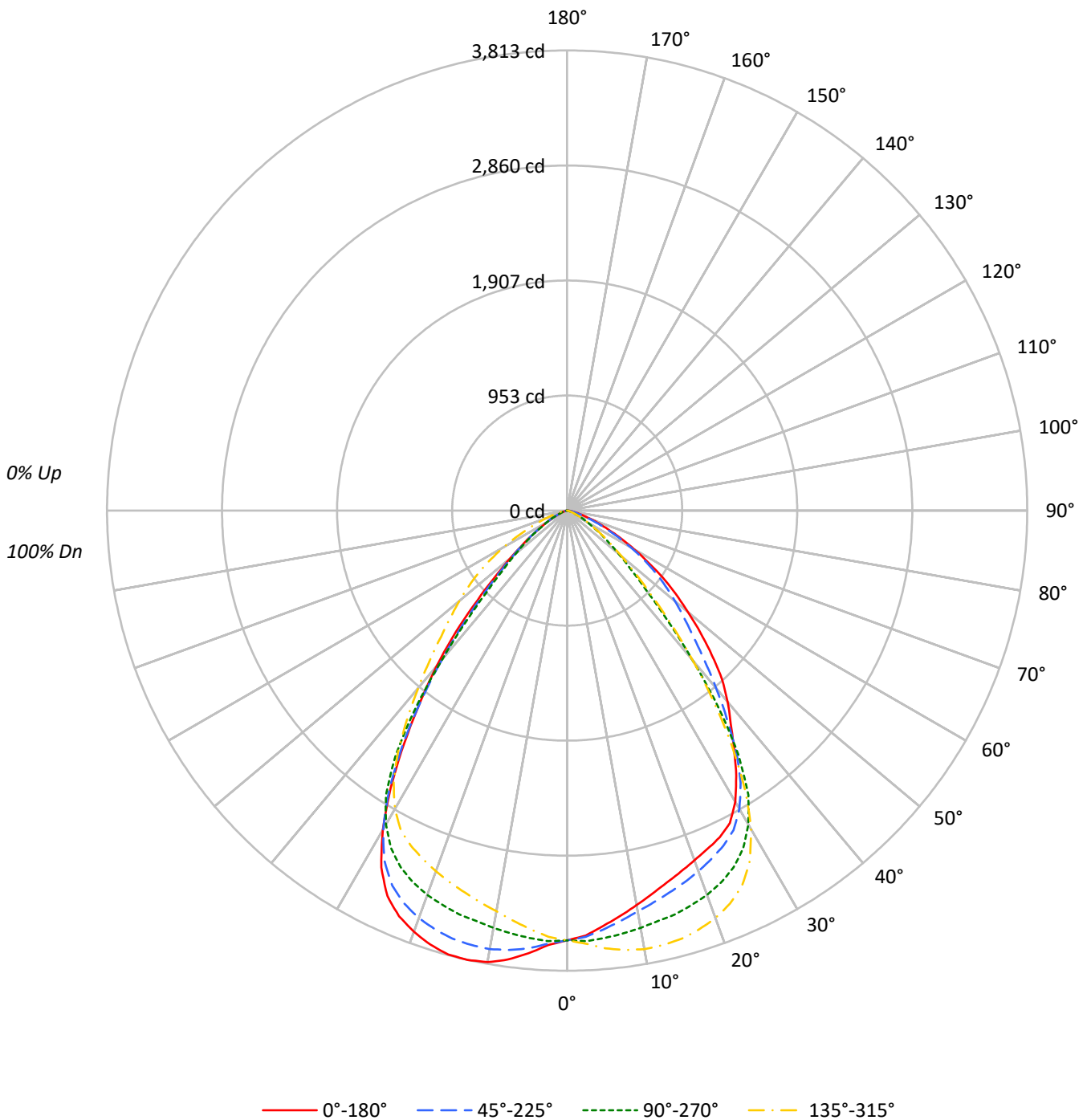
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	109802	109802	109802	109802
5°	106885	110060	113992	110060
10°	103928	109918	118954	109918
15°	101854	110569	121557	110569
20°	101160	111201	121870	111201
25°	101691	110976	119911	110976
30°	99175	106916	108835	106916
35°	90715	93267	88490	93267
40°	83285	64877	67751	64877
45°	74005	39580	45798	39580
50°	62638	26438	29359	26438
55°	51880	18042	19069	18042
60°	39569	12008	12113	12008
65°	28033	7486	6851	7486
70°	20223	5013	4553	5013
75°	12844	2490	2073	2490
80°	8968	1847	1545	1847
85°	7996	0	601	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.9	5.7
10°-20°	981.5	16.4
20°-30°	1486.1	24.8
30°-40°	1489.5	24.8
40°-50°	935.3	15.6
50°-60°	498.4	8.3
60°-70°	205.0	3.4
70°-80°	54.2	0.9
80°-90°	9.2	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°	2806.5	46.8
0°-40°	4296.0	71.6
0°-60°	5729.7	95.5
0°-90°	5998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5998.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3561	3561	3561	3561	3561	
5°	3453	3556	3683	3556	3453	326
15°	3190	3464	3808	3464	3190	902
25°	2989	3262	3524	3262	2989	1371
35°	2410	2478	2351	2478	2410	1510
45°	1697	908	1050	908	1697	1305
55°	965	336	355	336	965	860
65°	384	103	94	103	384	399
75°	108	21	17	21	108	122
85°	23	0	2	0	23	25
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°	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8
2.5°	3524.3	3520.8	3519.1	3522.6	3524.3	3531.3	3529.5	3533.0	3533.0	3534.8	3538.2
5°	3453.0	3451.3	3453.0	3453.0	3460.0	3466.9	3465.2	3470.4	3473.9	3482.6	3486.0
7.5°	3387.0	3387.0	3385.2	3392.1	3395.6	3406.1	3404.3	3413.0	3418.3	3426.9	3439.1
10°	3319.1	3319.1	3320.9	3326.1	3327.9	3343.5	3343.5	3355.6	3362.6	3371.3	3387.0
12.5°	3253.1	3253.1	3263.5	3260.0	3267.0	3279.1	3284.4	3296.5	3307.0	3324.4	3340.0
15°	3190.5	3190.5	3194.0	3202.6	3207.9	3223.5	3232.2	3246.1	3258.3	3275.7	3298.3
17.5°	3136.6	3134.9	3136.6	3147.0	3157.5	3171.4	3178.3	3195.7	3207.9	3230.5	3251.4
20°	3082.7	3086.2	3086.2	3094.9	3101.8	3119.2	3126.1	3145.3	3159.2	3180.0	3204.4
22.5°	3035.7	3034.0	3034.0	3046.2	3051.4	3067.0	3074.0	3091.4	3107.0	3124.4	3147.0
25°	2988.8	2985.3	2992.3	2994.0	2997.5	3014.8	3020.1	3032.2	3047.9	3063.6	3086.2
27.5°	2919.2	2915.8	2917.5	2924.5	2929.7	2943.6	2947.1	2959.2	2971.4	2985.3	3004.5
30°	2785.3	2781.9	2780.2	2792.4	2797.6	2808.0	2813.2	2834.1	2837.5	2853.2	2867.1
32.5°	2608.0	2606.3	2609.8	2620.2	2625.4	2639.3	2646.3	2658.5	2667.1	2675.8	2689.7
35°	2409.8	2406.3	2409.8	2420.3	2420.3	2432.4	2437.7	2442.8	2441.1	2442.8	2439.4
37.5°	2225.5	2223.8	2225.5	2230.7	2225.5	2230.7	2225.5	2215.1	2196.0	2175.1	2154.2
40°	2069.0	2070.8	2060.4	2067.3	2048.1	2044.7	2025.6	1999.5	1961.3	1919.5	1860.4
42.5°	1902.1	1896.9	1890.0	1893.4	1877.8	1865.6	1834.3	1801.3	1752.6	1683.1	1611.7
45°	1697.0	1695.2	1691.7	1690.0	1679.6	1667.4	1641.3	1603.1	1549.2	1477.9	1392.7
47.5°	1497.0	1491.8	1491.8	1493.5	1481.3	1479.6	1458.7	1425.7	1378.8	1309.2	1220.6
50°	1305.7	1304.0	1307.5	1314.4	1305.7	1302.3	1288.4	1265.8	1224.1	1164.9	1081.4
52.5°	1133.6	1131.9	1135.4	1144.0	1140.5	1144.0	1130.2	1112.8	1084.9	1027.5	954.5
55°	965.0	965.0	965.0	975.4	975.4	975.4	968.4	958.0	931.9	890.2	822.4
57.5°	789.4	791.1	801.5	803.3	801.5	805.0	803.3	792.8	775.5	745.9	693.8
60°	641.6	641.6	646.8	652.0	650.2	652.0	652.0	646.8	629.4	605.1	563.4
62.5°	507.7	512.9	509.4	512.9	519.9	512.9	509.4	506.0	493.8	478.1	443.3
65°	384.2	387.7	387.7	389.5	386.0	387.7	380.8	375.6	368.6	351.2	328.6
67.5°	292.1	292.1	292.1	292.1	290.3	288.6	286.9	281.7	269.5	262.6	238.2
70°	224.3	213.8	213.8	213.8	213.8	215.6	210.4	203.5	200.0	187.8	170.4
72.5°	149.5	153.0	149.5	149.5	146.1	147.8	140.8	137.3	133.9	127.0	116.5
75°	107.8	99.1	102.6	104.3	99.1	102.6	95.6	88.7	88.7	83.4	78.2
77.5°	69.6	67.8	69.6	71.3	69.6	67.8	64.3	60.8	60.8	59.1	53.9
80°	50.5	48.7	48.7	48.7	46.9	48.7	45.2	45.2	41.7	40.0	36.5
82.5°	33.1	33.1	31.3	33.1	31.3	33.1	27.8	27.8	27.8	26.0	22.6
85°	22.6	19.1	19.1	20.9	17.4	20.9	19.1	17.4	15.7	15.7	13.9
87.5°	10.4	12.2	10.4	12.2	10.4	10.4	12.2	10.4	10.4	6.9	6.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8
2.5°	3543.4	3545.1	3545.1	3552.2	3555.6	3557.3	3557.3	3571.3	3566.0	3569.6	3573.0
5°	3493.0	3503.4	3506.9	3506.9	3526.0	3533.0	3539.9	3555.6	3557.3	3567.8	3579.9
7.5°	3444.3	3456.5	3463.5	3479.1	3491.3	3503.4	3524.3	3534.8	3545.1	3559.1	3574.7
10°	3397.4	3411.3	3425.2	3437.4	3456.5	3472.2	3486.0	3510.4	3522.6	3541.7	3562.5
12.5°	3352.2	3371.3	3383.5	3404.3	3425.2	3439.1	3460.0	3482.6	3501.7	3520.8	3545.1
15°	3312.2	3334.8	3348.7	3371.3	3393.9	3413.0	3435.7	3463.5	3477.4	3500.0	3522.6
17.5°	3268.7	3293.1	3310.5	3331.3	3359.2	3380.0	3399.2	3426.9	3444.3	3468.6	3494.8
20°	3223.5	3247.9	3268.7	3289.6	3317.4	3338.3	3360.9	3388.7	3407.8	3432.1	3453.0
22.5°	3169.6	3192.3	3214.8	3239.1	3267.0	3284.4	3310.5	3334.8	3355.6	3378.3	3399.2
25°	3100.1	3127.9	3145.3	3167.9	3190.5	3209.6	3237.4	3261.7	3279.1	3300.0	3319.1
27.5°	3018.4	3039.3	3053.1	3072.2	3094.9	3112.2	3133.1	3157.5	3174.9	3194.0	3207.9
30°	2879.2	2898.4	2910.6	2924.5	2947.1	2962.7	2980.1	3002.7	3014.8	3028.8	3041.0
32.5°	2696.7	2712.3	2719.3	2729.7	2745.4	2761.0	2775.0	2794.1	2799.3	2808.0	2808.0
35°	2432.4	2435.9	2434.2	2437.7	2444.6	2453.3	2465.4	2477.6	2484.5	2484.5	2479.4
37.5°	2122.9	2102.1	2079.5	2062.1	2056.9	2053.4	2060.4	2065.5	2072.5	2076.0	2067.3
40°	1801.3	1754.4	1703.9	1658.7	1627.4	1613.5	1608.3	1611.7	1611.7	1623.9	1623.9
42.5°	1524.9	1451.8	1377.1	1309.2	1264.0	1229.3	1213.6	1213.6	1215.3	1224.1	1229.3
45°	1295.3	1203.2	1116.2	1041.5	978.9	933.6	912.8	907.6	905.9	909.3	921.5
47.5°	1119.7	1024.1	933.6	841.5	775.5	730.3	711.1	704.1	697.2	704.1	705.9
50°	982.4	883.3	787.7	695.5	625.9	585.9	561.6	551.1	549.4	549.4	552.9
52.5°	857.1	765.0	669.4	575.5	502.5	464.2	441.6	436.4	429.5	436.4	436.4
55°	738.9	646.8	552.9	464.2	403.3	363.4	342.5	335.6	332.1	337.3	337.3
57.5°	610.3	532.0	445.1	365.1	304.3	276.5	260.8	252.1	250.3	253.8	250.3
60°	500.7	434.7	359.9	286.9	240.0	210.4	198.2	194.7	191.2	194.7	194.7
62.5°	396.4	340.8	279.9	224.3	184.3	163.5	149.5	149.5	147.8	147.8	149.5
65°	293.8	250.3	206.9	159.9	128.7	113.0	102.6	102.6	100.8	102.6	100.8
67.5°	213.8	184.3	149.5	116.5	92.2	83.4	76.5	71.3	74.8	71.3	69.6
70°	156.5	132.1	107.8	88.7	71.3	62.6	57.4	55.6	52.2	52.2	52.2
72.5°	104.3	88.7	73.0	57.4	46.9	38.2	36.5	33.1	29.6	31.3	34.8
75°	69.6	59.1	52.2	41.7	31.3	31.3	20.9	20.9	17.4	20.9	15.7
77.5°	48.7	40.0	31.3	26.0	20.9	19.1	13.9	13.9	12.2	12.2	12.2
80°	34.8	29.6	22.6	19.1	13.9	13.9	12.2	10.4	8.7	8.7	10.4
82.5°	20.9	15.7	15.7	13.9	8.7	6.9	5.2	6.9	3.5	3.5	3.5
85°	12.2	10.4	8.7	5.2	3.5	3.5	1.7	0.0	1.7	1.7	0.0
87.5°	6.9	3.5	3.5	1.7	0.0	1.7	1.7	0.0	0.0	0.0	3.5
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°	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8
2.5°	3581.7	3579.9	3583.4	3583.4	3593.9	3592.1	3597.3	3597.3	3593.9	3595.6	3602.5
5°	3593.9	3599.1	3609.5	3618.2	3633.8	3640.8	3649.5	3658.2	3659.9	3665.2	3670.4
7.5°	3593.9	3611.3	3623.4	3639.0	3659.9	3672.1	3691.2	3706.9	3713.8	3722.5	3732.9
10°	3586.9	3604.3	3626.9	3644.3	3670.4	3689.5	3708.6	3732.9	3743.4	3757.3	3771.2
12.5°	3573.0	3592.1	3616.4	3639.0	3668.6	3686.0	3710.3	3732.9	3748.6	3767.7	3783.4
15°	3552.2	3574.7	3597.3	3619.9	3651.2	3672.1	3694.7	3720.8	3736.4	3757.3	3771.2
17.5°	3519.1	3543.4	3564.3	3585.2	3614.7	3639.0	3659.9	3684.3	3699.9	3717.3	3736.4
20°	3479.1	3501.7	3524.3	3541.7	3571.3	3592.1	3614.7	3637.3	3649.5	3653.0	3682.6
22.5°	3428.7	3444.3	3461.7	3489.5	3506.9	3526.0	3546.9	3567.8	3579.9	3599.1	3609.5
25°	3345.2	3360.9	3380.0	3392.1	3413.0	3428.7	3449.5	3472.2	3479.1	3493.0	3503.4
27.5°	3228.8	3237.4	3246.1	3256.5	3268.7	3277.4	3289.6	3300.0	3307.0	3313.9	3320.9
30°	3044.4	3044.4	3044.4	3037.5	3042.7	3047.9	3049.6	3047.9	3047.9	3046.2	3046.2
32.5°	2801.0	2787.1	2771.5	2757.6	2752.3	2745.4	2741.9	2736.7	2728.0	2722.8	2724.5
35°	2472.4	2441.1	2422.0	2404.6	2390.7	2380.3	2375.1	2369.8	2368.1	2361.2	2354.2
37.5°	2062.1	2039.5	2025.6	2015.1	2003.0	1992.5	1994.2	1996.0	2001.2	1997.8	1999.5
40°	1627.4	1622.2	1627.4	1615.2	1611.7	1615.2	1623.9	1636.1	1643.1	1650.0	1662.2
42.5°	1237.9	1246.6	1258.8	1258.8	1264.0	1271.0	1281.4	1300.6	1310.9	1323.1	1337.1
45°	931.9	942.4	958.0	963.2	966.7	975.4	987.6	1003.2	1010.1	1020.6	1032.8
47.5°	718.1	725.0	733.7	742.4	751.1	754.6	766.8	766.8	775.5	782.4	785.9
50°	559.9	566.8	573.7	579.0	582.5	587.7	591.1	596.4	598.1	601.6	603.3
52.5°	438.1	446.9	446.9	450.3	455.5	460.7	459.0	460.7	462.5	462.5	467.7
55°	342.5	342.5	347.7	347.7	351.2	349.5	351.2	351.2	351.2	351.2	353.0
57.5°	255.6	257.4	262.6	259.1	257.4	260.8	257.4	260.8	259.1	262.6	257.4
60°	196.4	196.4	198.2	198.2	200.0	200.0	200.0	198.2	198.2	196.4	196.4
62.5°	147.8	149.5	151.3	149.5	149.5	149.5	147.8	147.8	146.1	144.3	144.3
65°	99.1	97.4	100.8	97.4	99.1	99.1	97.4	99.1	93.9	95.6	93.9
67.5°	71.3	69.6	67.8	69.6	67.8	66.1	66.1	67.8	69.6	64.3	64.3
70°	46.9	48.7	46.9	48.7	50.5	50.5	48.7	46.9	48.7	45.2	46.9
72.5°	29.6	29.6	29.6	29.6	29.6	31.3	31.3	31.3	27.8	27.8	26.0
75°	13.9	19.1	15.7	13.9	19.1	19.1	17.4	17.4	15.7	15.7	15.7
77.5°	13.9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	8.7	10.4	8.7
80°	6.9	6.9	6.9	5.2	6.9	6.9	8.7	6.9	6.9	5.2	8.7
82.5°	3.5	3.5	3.5	0.0	1.7	3.5	3.5	1.7	3.5	3.5	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: P248551

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8
2.5°	3600.8	3599.1	3600.8	3602.5	3600.8	3599.1	3600.8	3602.5	3595.6	3593.9	3597.3
5°	3677.3	3677.3	3680.8	3682.6	3680.8	3677.3	3677.3	3670.4	3665.2	3659.9	3658.2
7.5°	3743.4	3746.9	3750.3	3752.0	3750.3	3746.9	3743.4	3732.9	3722.5	3713.8	3706.9
10°	3783.4	3788.6	3795.6	3799.0	3795.6	3788.6	3783.4	3771.2	3757.3	3743.4	3732.9
12.5°	3800.8	3806.0	3814.7	3812.9	3814.7	3806.0	3800.8	3783.4	3767.7	3748.6	3732.9
15°	3788.6	3795.6	3804.2	3807.7	3804.2	3795.6	3788.6	3771.2	3757.3	3736.4	3720.8
17.5°	3750.3	3760.8	3766.0	3771.2	3766.0	3760.8	3750.3	3736.4	3717.3	3699.9	3684.3
20°	3698.2	3705.2	3712.1	3713.8	3712.1	3705.2	3698.2	3682.6	3653.0	3649.5	3637.3
22.5°	3623.4	3628.7	3644.3	3639.0	3644.3	3628.7	3623.4	3609.5	3599.1	3579.9	3567.8
25°	3515.6	3520.8	3522.6	3524.3	3522.6	3520.8	3515.6	3503.4	3493.0	3479.1	3472.2
27.5°	3329.6	3329.6	3333.0	3334.8	3333.0	3329.6	3329.6	3320.9	3313.9	3307.0	3300.0
30°	3047.9	3047.9	3047.9	3056.6	3047.9	3047.9	3047.9	3046.2	3046.2	3047.9	3047.9
32.5°	2722.8	2719.3	2715.8	2719.3	2715.8	2719.3	2722.8	2724.5	2722.8	2728.0	2736.7
35°	2354.2	2352.4	2357.7	2350.7	2357.7	2352.4	2354.2	2354.2	2361.2	2368.1	2369.8
37.5°	2001.2	1997.8	2004.7	1997.8	2004.7	1997.8	2001.2	1999.5	1997.8	2001.2	1996.0
40°	1665.7	1669.1	1669.1	1683.1	1669.1	1669.1	1665.7	1662.2	1650.0	1643.1	1636.1
42.5°	1344.0	1354.5	1350.9	1361.4	1350.9	1354.5	1344.0	1337.1	1323.1	1310.9	1300.6
45°	1039.7	1046.7	1046.7	1050.2	1046.7	1046.7	1039.7	1032.8	1020.6	1010.1	1003.2
47.5°	798.0	798.0	798.0	799.8	798.0	798.0	798.0	785.9	782.4	775.5	766.8
50°	606.8	608.5	610.3	612.0	610.3	608.5	606.8	603.3	601.6	598.1	596.4
52.5°	466.0	467.7	464.2	467.7	464.2	467.7	466.0	467.7	462.5	462.5	460.7
55°	353.0	351.2	353.0	354.7	353.0	351.2	353.0	353.0	351.2	351.2	351.2
57.5°	259.1	255.6	255.6	255.6	255.6	255.6	259.1	257.4	262.6	259.1	260.8
60°	193.0	194.7	194.7	196.4	194.7	194.7	193.0	196.4	196.4	198.2	198.2
62.5°	142.6	147.8	144.3	147.8	144.3	147.8	142.6	144.3	144.3	146.1	147.8
65°	92.2	92.2	92.2	93.9	92.2	92.2	92.2	93.9	95.6	93.9	99.1
67.5°	62.6	64.3	67.8	66.1	67.8	64.3	62.6	64.3	64.3	69.6	67.8
70°	50.5	45.2	45.2	50.5	45.2	45.2	50.5	46.9	45.2	48.7	46.9
72.5°	29.6	26.0	29.6	29.6	29.6	26.0	29.6	26.0	27.8	27.8	31.3
75°	15.7	13.9	12.2	17.4	12.2	13.9	15.7	15.7	15.7	15.7	17.4
77.5°	10.4	8.7	12.2	12.2	12.2	8.7	10.4	8.7	10.4	8.7	10.4
80°	5.2	6.9	5.2	8.7	5.2	6.9	5.2	8.7	5.2	6.9	6.9
82.5°	1.7	3.5	3.5	3.5	3.5	3.5	1.7	1.7	3.5	3.5	1.7
85°	0.0	3.5	1.7	1.7	1.7	3.5	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: P248551

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8
2.5°	3597.3	3592.1	3593.9	3583.4	3583.4	3579.9	3581.7	3573.0	3569.6	3566.0	3571.3
5°	3649.5	3640.8	3633.8	3618.2	3609.5	3599.1	3593.9	3579.9	3567.8	3557.3	3555.6
7.5°	3691.2	3672.1	3659.9	3639.0	3623.4	3611.3	3593.9	3574.7	3559.1	3545.1	3534.8
10°	3708.6	3689.5	3670.4	3644.3	3626.9	3604.3	3586.9	3562.5	3541.7	3522.6	3510.4
12.5°	3710.3	3686.0	3668.6	3639.0	3616.4	3592.1	3573.0	3545.1	3520.8	3501.7	3482.6
15°	3694.7	3672.1	3651.2	3619.9	3597.3	3574.7	3552.2	3522.6	3500.0	3477.4	3463.5
17.5°	3659.9	3639.0	3614.7	3585.2	3564.3	3543.4	3519.1	3494.8	3468.6	3444.3	3426.9
20°	3614.7	3592.1	3571.3	3541.7	3524.3	3501.7	3479.1	3453.0	3432.1	3407.8	3388.7
22.5°	3546.9	3526.0	3506.9	3489.5	3461.7	3444.3	3428.7	3399.2	3378.3	3355.6	3334.8
25°	3449.5	3428.7	3413.0	3392.1	3380.0	3360.9	3345.2	3319.1	3300.0	3279.1	3261.7
27.5°	3289.6	3277.4	3268.7	3256.5	3246.1	3237.4	3228.8	3207.9	3194.0	3174.9	3157.5
30°	3049.6	3047.9	3042.7	3037.5	3044.4	3044.4	3044.4	3041.0	3028.8	3014.8	3002.7
32.5°	2741.9	2745.4	2752.3	2757.6	2771.5	2787.1	2801.0	2808.0	2808.0	2799.3	2794.1
35°	2375.1	2380.3	2390.7	2404.6	2422.0	2441.1	2472.4	2479.4	2484.5	2484.5	2477.6
37.5°	1994.2	1992.5	2003.0	2015.1	2025.6	2039.5	2062.1	2067.3	2076.0	2072.5	2065.5
40°	1623.9	1615.2	1611.7	1615.2	1627.4	1622.2	1627.4	1623.9	1623.9	1611.7	1611.7
42.5°	1281.4	1271.0	1264.0	1258.8	1258.8	1246.6	1237.9	1229.3	1224.1	1215.3	1213.6
45°	987.6	975.4	966.7	963.2	958.0	942.4	931.9	921.5	909.3	905.9	907.6
47.5°	766.8	754.6	751.1	742.4	733.7	725.0	718.1	705.9	704.1	697.2	704.1
50°	591.1	587.7	582.5	579.0	573.7	566.8	559.9	552.9	549.4	549.4	551.1
52.5°	459.0	460.7	455.5	450.3	446.9	446.9	438.1	436.4	436.4	429.5	436.4
55°	351.2	349.5	351.2	347.7	347.7	342.5	342.5	337.3	337.3	332.1	335.6
57.5°	257.4	260.8	257.4	259.1	262.6	257.4	255.6	250.3	253.8	250.3	252.1
60°	200.0	200.0	200.0	198.2	198.2	196.4	196.4	194.7	194.7	191.2	194.7
62.5°	147.8	149.5	149.5	149.5	151.3	149.5	147.8	149.5	147.8	147.8	149.5
65°	97.4	99.1	99.1	97.4	100.8	97.4	99.1	100.8	102.6	100.8	102.6
67.5°	66.1	66.1	67.8	69.6	67.8	69.6	71.3	69.6	71.3	74.8	71.3
70°	48.7	50.5	50.5	48.7	46.9	48.7	46.9	52.2	52.2	52.2	55.6
72.5°	31.3	31.3	29.6	29.6	29.6	29.6	29.6	34.8	31.3	29.6	33.1
75°	17.4	19.1	19.1	13.9	15.7	19.1	13.9	15.7	20.9	17.4	20.9
77.5°	10.4	10.4	10.4	10.4	10.4	10.4	13.9	12.2	12.2	12.2	13.9
80°	8.7	6.9	6.9	5.2	6.9	6.9	6.9	10.4	8.7	8.7	10.4
82.5°	3.5	3.5	1.7	0.0	3.5	3.5	3.5	3.5	3.5	3.5	6.9
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	3.5	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: P248551

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8
2.5°	3557.3	3557.3	3555.6	3552.2	3545.1	3545.1	3543.4	3538.2	3534.8	3533.0	3533.0
5°	3539.9	3533.0	3526.0	3506.9	3506.9	3503.4	3493.0	3486.0	3482.6	3473.9	3470.4
7.5°	3524.3	3503.4	3491.3	3479.1	3463.5	3456.5	3444.3	3439.1	3426.9	3418.3	3413.0
10°	3486.0	3472.2	3456.5	3437.4	3425.2	3411.3	3397.4	3387.0	3371.3	3362.6	3355.6
12.5°	3460.0	3439.1	3425.2	3404.3	3383.5	3371.3	3352.2	3340.0	3324.4	3307.0	3296.5
15°	3435.7	3413.0	3393.9	3371.3	3348.7	3334.8	3312.2	3298.3	3275.7	3258.3	3246.1
17.5°	3399.2	3380.0	3359.2	3331.3	3310.5	3293.1	3268.7	3251.4	3230.5	3207.9	3195.7
20°	3360.9	3338.3	3317.4	3289.6	3268.7	3247.9	3223.5	3204.4	3180.0	3159.2	3145.3
22.5°	3310.5	3284.4	3267.0	3239.1	3214.8	3192.3	3169.6	3147.0	3124.4	3107.0	3091.4
25°	3237.4	3209.6	3190.5	3167.9	3145.3	3127.9	3100.1	3086.2	3063.6	3047.9	3032.2
27.5°	3133.1	3112.2	3094.9	3072.2	3053.1	3039.3	3018.4	3004.5	2985.3	2971.4	2959.2
30°	2980.1	2962.7	2947.1	2924.5	2910.6	2898.4	2879.2	2867.1	2853.2	2837.5	2834.1
32.5°	2775.0	2761.0	2745.4	2729.7	2719.3	2712.3	2696.7	2689.7	2675.8	2667.1	2658.5
35°	2465.4	2453.3	2444.6	2437.7	2434.2	2435.9	2432.4	2439.4	2442.8	2441.1	2442.8
37.5°	2060.4	2053.4	2056.9	2062.1	2079.5	2102.1	2122.9	2154.2	2175.1	2196.0	2215.1
40°	1608.3	1613.5	1627.4	1658.7	1703.9	1754.4	1801.3	1860.4	1919.5	1961.3	1999.5
42.5°	1213.6	1229.3	1264.0	1309.2	1377.1	1451.8	1524.9	1611.7	1683.1	1752.6	1801.3
45°	912.8	933.6	978.9	1041.5	1116.2	1203.2	1295.3	1392.7	1477.9	1549.2	1603.1
47.5°	711.1	730.3	775.5	841.5	933.6	1024.1	1119.7	1220.6	1309.2	1378.8	1425.7
50°	561.6	585.9	625.9	695.5	787.7	883.3	982.4	1081.4	1164.9	1224.1	1265.8
52.5°	441.6	464.2	502.5	575.5	669.4	765.0	857.1	954.5	1027.5	1084.9	1112.8
55°	342.5	363.4	403.3	464.2	552.9	646.8	738.9	822.4	890.2	931.9	958.0
57.5°	260.8	276.5	304.3	365.1	445.1	532.0	610.3	693.8	745.9	775.5	792.8
60°	198.2	210.4	240.0	286.9	359.9	434.7	500.7	563.4	605.1	629.4	646.8
62.5°	149.5	163.5	184.3	224.3	279.9	340.8	396.4	443.3	478.1	493.8	506.0
65°	102.6	113.0	128.7	159.9	206.9	250.3	293.8	328.6	351.2	368.6	375.6
67.5°	76.5	83.4	92.2	116.5	149.5	184.3	213.8	238.2	262.6	269.5	281.7
70°	57.4	62.6	71.3	88.7	107.8	132.1	156.5	170.4	187.8	200.0	203.5
72.5°	36.5	38.2	46.9	57.4	73.0	88.7	104.3	116.5	127.0	133.9	137.3
75°	20.9	31.3	31.3	41.7	52.2	59.1	69.6	78.2	83.4	88.7	88.7
77.5°	13.9	19.1	20.9	26.0	31.3	40.0	48.7	53.9	59.1	60.8	60.8
80°	12.2	13.9	13.9	19.1	22.6	29.6	34.8	36.5	40.0	41.7	45.2
82.5°	5.2	6.9	8.7	13.9	15.7	15.7	20.9	22.6	26.0	27.8	27.8
85°	1.7	3.5	3.5	5.2	8.7	10.4	12.2	13.9	15.7	15.7	17.4
87.5°	1.7	1.7	0.0	1.7	3.5	3.5	6.9	6.9	6.9	10.4	10.4
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: P248551

CATALOG NUMBER: LD8B60D010 ER8B60830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8	3560.8
2.5°	3529.5	3531.3	3524.3	3522.6	3519.1	3520.8	3524.3
5°	3465.2	3466.9	3460.0	3453.0	3453.0	3451.3	3453.0
7.5°	3404.3	3406.1	3395.6	3392.1	3385.2	3387.0	3387.0
10°	3343.5	3343.5	3327.9	3326.1	3320.9	3319.1	3319.1
12.5°	3284.4	3279.1	3267.0	3260.0	3263.5	3253.1	3253.1
15°	3232.2	3223.5	3207.9	3202.6	3194.0	3190.5	3190.5
17.5°	3178.3	3171.4	3157.5	3147.0	3136.6	3134.9	3136.6
20°	3126.1	3119.2	3101.8	3094.9	3086.2	3086.2	3082.7
22.5°	3074.0	3067.0	3051.4	3046.2	3034.0	3034.0	3035.7
25°	3020.1	3014.8	2997.5	2994.0	2992.3	2985.3	2988.8
27.5°	2947.1	2943.6	2929.7	2924.5	2917.5	2915.8	2919.2
30°	2813.2	2808.0	2797.6	2792.4	2780.2	2781.9	2785.3
32.5°	2646.3	2639.3	2625.4	2620.2	2609.8	2606.3	2608.0
35°	2437.7	2432.4	2420.3	2420.3	2409.8	2406.3	2409.8
37.5°	2225.5	2230.7	2225.5	2230.7	2225.5	2223.8	2225.5
40°	2025.6	2044.7	2048.1	2067.3	2060.4	2070.8	2069.0
42.5°	1834.3	1865.6	1877.8	1893.4	1890.0	1896.9	1902.1
45°	1641.3	1667.4	1679.6	1690.0	1691.7	1695.2	1697.0
47.5°	1458.7	1479.6	1481.3	1493.5	1491.8	1491.8	1497.0
50°	1288.4	1302.3	1305.7	1314.4	1307.5	1304.0	1305.7
52.5°	1130.2	1144.0	1140.5	1144.0	1135.4	1131.9	1133.6
55°	968.4	975.4	975.4	975.4	965.0	965.0	965.0
57.5°	803.3	805.0	801.5	803.3	801.5	791.1	789.4
60°	652.0	652.0	650.2	652.0	646.8	641.6	641.6
62.5°	509.4	512.9	519.9	512.9	509.4	512.9	507.7
65°	380.8	387.7	386.0	389.5	387.7	387.7	384.2
67.5°	286.9	288.6	290.3	292.1	292.1	292.1	292.1
70°	210.4	215.6	213.8	213.8	213.8	213.8	224.3
72.5°	140.8	147.8	146.1	149.5	149.5	153.0	149.5
75°	95.6	102.6	99.1	104.3	102.6	99.1	107.8
77.5°	64.3	67.8	69.6	71.3	69.6	67.8	69.6
80°	45.2	48.7	46.9	48.7	48.7	48.7	50.5
82.5°	27.8	33.1	31.3	33.1	31.3	33.1	33.1
85°	19.1	20.9	17.4	20.9	19.1	19.1	22.6
87.5°	12.2	10.4	10.4	12.2	10.4	12.2	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)