

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: P248713

Luminaire Tested: **LD8B60D010 ER8B60935 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248713
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 ER8B60935 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5273.0 lumens
Efficiency: N/A
Efficacy: 88.6 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

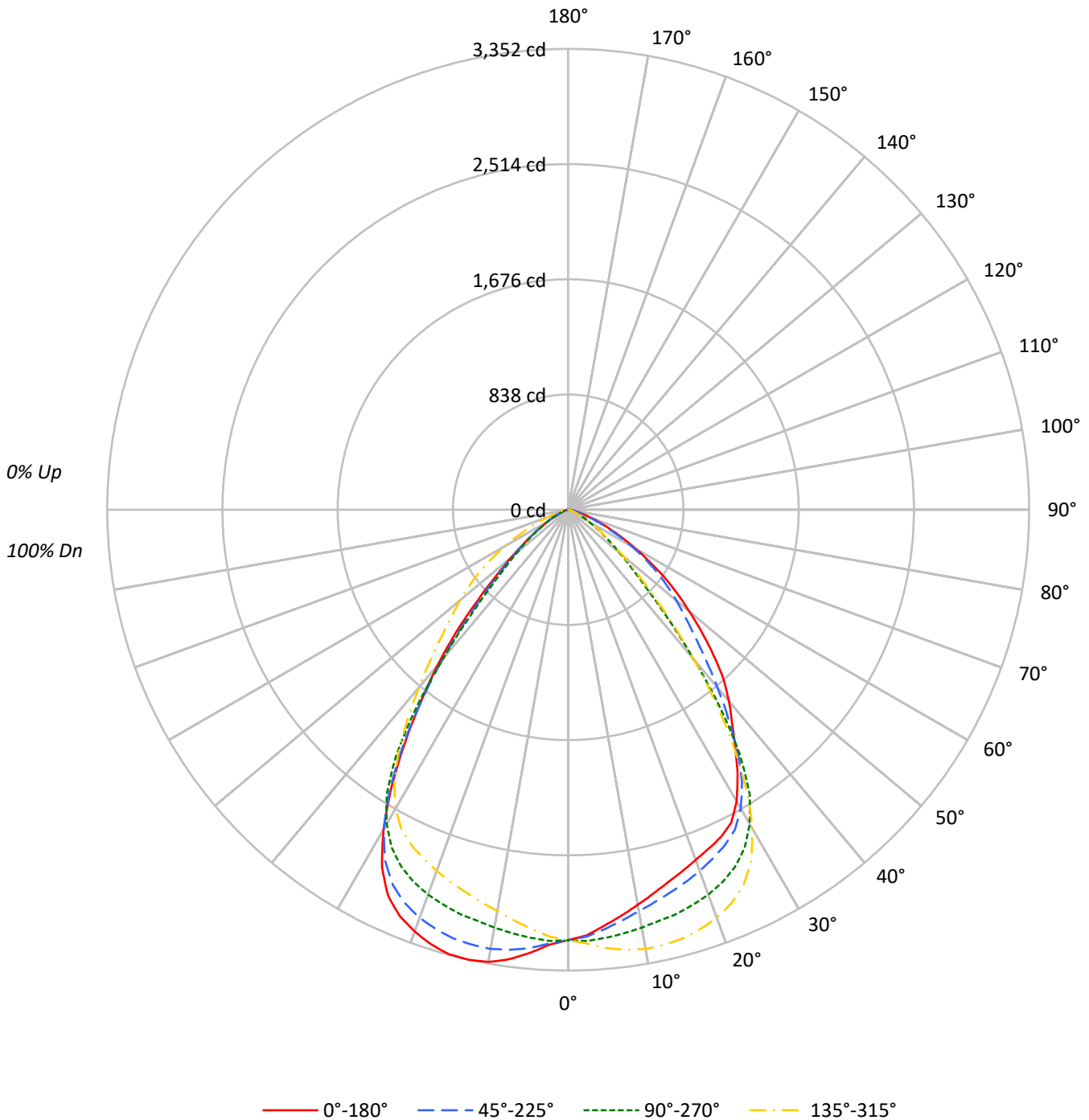
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	96530	96530	96530	96530
5°	93967	96756	100211	96756
10°	91365	96632	104576	96632
15°	89541	97203	106866	97203
20°	88933	97760	107139	97760
25°	89398	97564	105417	97564
30°	87190	93991	95682	93991
35°	79749	81993	77795	81993
40°	73218	57036	59560	57036
45°	65056	34796	40260	34796
50°	55068	23243	25814	23243
55°	45606	15860	16763	15860
60°	34783	10558	10651	10558
65°	24648	6581	6020	6581
70°	17779	4409	4003	4409
75°	11295	2192	1823	2192
80°	7885	1634	1350	1634
85°	7041	0	531	0



TEST NUMBER: P248713

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.0	5.7
10°-20°	862.8	16.4
20°-30°	1306.5	24.8
30°-40°	1309.4	24.8
40°-50°	822.3	15.6
50°-60°	438.2	8.3
60°-70°	180.2	3.4
70°-80°	47.6	0.9
80°-90°	8.1	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°	2467.3	46.8
0°-40°	3776.7	71.6
0°-60°	5037.2	95.5
0°-90°	5273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5273.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3130	3130	3130	3130	3130	
5°	3036	3126	3237	3126	3036	286
15°	2805	3045	3348	3045	2805	793
25°	2628	2868	3098	2868	2628	1205
35°	2118	2178	2067	2178	2118	1327
45°	1492	798	923	798	1492	1147
55°	848	295	312	295	848	756
65°	338	90	82	90	338	350
75°	95	18	15	18	95	107
85°	20	0	2	0	20	22
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°	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4
2.5°	3098.3	3095.2	3093.7	3096.8	3098.3	3104.4	3102.9	3105.9	3105.9	3107.5	3110.5
5°	3035.7	3034.1	3035.7	3035.7	3041.8	3047.9	3046.4	3051.0	3054.0	3061.6	3064.7
7.5°	2977.6	2977.6	2976.0	2982.1	2985.2	2994.4	2992.8	3000.5	3005.1	3012.7	3023.4
10°	2917.9	2917.9	2919.5	2924.1	2925.6	2939.3	2939.3	2950.0	2956.1	2963.8	2977.6
12.5°	2859.9	2859.9	2869.1	2866.0	2872.1	2882.8	2887.4	2898.1	2907.3	2922.5	2936.3
15°	2804.8	2804.8	2807.9	2815.5	2820.1	2833.9	2841.5	2853.8	2864.5	2879.8	2899.6
17.5°	2757.5	2755.9	2757.5	2766.6	2775.8	2788.0	2794.1	2809.4	2820.1	2840.0	2858.4
20°	2710.1	2713.2	2713.2	2720.8	2726.9	2742.2	2748.3	2765.1	2777.3	2795.6	2817.1
22.5°	2668.8	2667.3	2667.3	2678.0	2682.6	2696.3	2702.4	2717.7	2731.5	2746.8	2766.6
25°	2627.5	2624.4	2630.6	2632.1	2635.1	2650.4	2655.0	2665.7	2679.5	2693.3	2713.2
27.5°	2566.4	2563.4	2564.9	2571.0	2575.6	2587.8	2590.9	2601.5	2612.2	2624.4	2641.3
30°	2448.7	2445.6	2444.1	2454.8	2459.4	2468.5	2473.1	2491.5	2494.5	2508.3	2520.5
32.5°	2292.8	2291.2	2294.3	2303.5	2308.0	2320.3	2326.4	2337.1	2344.7	2352.4	2364.6
35°	2118.5	2115.5	2118.5	2127.7	2127.7	2138.4	2143.0	2147.6	2146.0	2147.6	2144.5
37.5°	1956.5	1955.0	1956.5	1961.1	1956.5	1961.1	1956.5	1947.4	1930.6	1912.2	1893.8
40°	1818.9	1820.5	1811.3	1817.4	1800.6	1797.6	1780.8	1757.8	1724.2	1687.5	1635.5
42.5°	1672.2	1667.6	1661.5	1664.5	1650.8	1640.1	1612.6	1583.6	1540.7	1479.6	1416.9
45°	1491.8	1490.3	1487.3	1485.7	1476.6	1465.9	1442.9	1409.3	1361.9	1299.3	1224.3
47.5°	1316.1	1311.5	1311.5	1313.0	1302.3	1300.8	1282.4	1253.4	1212.1	1151.0	1073.0
50°	1147.9	1146.4	1149.5	1155.6	1147.9	1144.9	1132.7	1112.8	1076.1	1024.1	950.7
52.5°	996.6	995.1	998.2	1005.8	1002.7	1005.8	993.6	978.3	953.8	903.3	839.2
55°	848.3	848.3	848.3	857.5	857.5	857.5	851.4	842.2	819.3	782.6	723.0
57.5°	694.0	695.5	704.7	706.2	704.7	707.7	706.2	697.0	681.8	655.8	609.9
60°	564.0	564.0	568.6	573.2	571.6	573.2	573.2	568.6	553.3	531.9	495.3
62.5°	446.3	450.9	447.8	450.9	457.0	450.9	447.8	444.8	434.1	420.3	389.8
65°	337.8	340.9	340.9	342.4	339.3	340.9	334.8	330.2	324.1	308.8	288.9
67.5°	256.8	256.8	256.8	256.8	255.2	253.7	252.2	247.6	236.9	230.8	209.4
70°	197.2	188.0	188.0	188.0	188.0	189.6	185.0	178.9	175.8	165.1	149.8
72.5°	131.4	134.5	131.4	131.4	128.4	129.9	123.8	120.7	117.7	111.6	102.4
75°	94.8	87.1	90.2	91.7	87.1	90.2	84.1	78.0	78.0	73.4	68.8
77.5°	61.2	59.6	61.2	62.7	61.2	59.6	56.6	53.5	53.5	52.0	47.4
80°	44.4	42.8	42.8	42.8	41.3	42.8	39.8	39.8	36.7	35.2	32.1
82.5°	29.1	29.1	27.5	29.1	27.5	29.1	24.5	24.5	24.5	22.9	19.9
85°	19.9	16.8	16.8	18.4	15.3	18.4	16.8	15.3	13.8	13.8	12.2
87.5°	9.2	10.7	9.2	10.7	9.2	9.2	10.7	9.2	9.2	6.1	6.1
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: P248713

CATALOG NUMBER: LD8B60D010 ER8B60935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4
2.5°	3115.1	3116.6	3116.6	3122.8	3125.8	3127.3	3127.3	3139.6	3135.0	3138.1	3141.1
5°	3070.8	3080.0	3083.0	3083.0	3099.8	3105.9	3112.0	3125.8	3127.3	3136.5	3147.2
7.5°	3028.0	3038.7	3044.8	3058.6	3069.3	3080.0	3098.3	3107.5	3116.6	3128.9	3142.6
10°	2986.7	2999.0	3011.2	3021.9	3038.7	3052.5	3064.7	3086.1	3096.8	3113.6	3131.9
12.5°	2947.0	2963.8	2974.5	2992.8	3011.2	3023.4	3041.8	3061.6	3078.4	3095.2	3116.6
15°	2911.8	2931.7	2943.9	2963.8	2983.7	3000.5	3020.4	3044.8	3057.1	3076.9	3096.8
17.5°	2873.6	2895.0	2910.3	2928.6	2953.1	2971.4	2988.3	3012.7	3028.0	3049.4	3072.3
20°	2833.9	2855.3	2873.6	2892.0	2916.4	2934.7	2954.6	2979.1	2995.9	3017.3	3035.7
22.5°	2786.5	2806.4	2826.2	2847.6	2872.1	2887.4	2910.3	2931.7	2950.0	2969.9	2988.3
25°	2725.4	2749.8	2765.1	2784.9	2804.8	2821.6	2846.1	2867.5	2882.8	2901.1	2917.9
27.5°	2653.5	2671.9	2684.1	2700.9	2720.8	2736.1	2754.4	2775.8	2791.1	2807.9	2820.1
30°	2531.2	2548.1	2558.8	2571.0	2590.9	2604.6	2619.9	2639.7	2650.4	2662.7	2673.4
32.5°	2370.7	2384.5	2390.6	2399.8	2413.6	2427.3	2439.5	2456.3	2460.9	2468.5	2468.5
35°	2138.4	2141.4	2139.9	2143.0	2149.1	2156.7	2167.4	2178.1	2184.2	2184.2	2179.7
37.5°	1866.3	1848.0	1828.1	1812.8	1808.2	1805.2	1811.3	1815.9	1822.0	1825.0	1817.4
40°	1583.6	1542.3	1498.0	1458.2	1430.7	1418.5	1413.9	1416.9	1416.9	1427.6	1427.6
42.5°	1340.5	1276.3	1210.6	1151.0	1111.2	1080.7	1066.9	1066.9	1068.4	1076.1	1080.7
45°	1138.8	1057.7	981.3	915.6	860.6	820.8	802.5	797.9	796.4	799.4	810.1
47.5°	984.4	900.3	820.8	739.8	681.8	642.0	625.2	619.0	612.9	619.0	620.6
50°	863.6	776.5	692.4	611.4	550.3	515.1	493.7	484.5	483.0	483.0	486.1
52.5°	753.5	672.6	588.5	506.0	441.7	408.1	388.3	383.7	377.6	383.7	383.7
55°	649.6	568.6	486.1	408.1	354.6	319.5	301.1	295.0	291.9	296.5	296.5
57.5°	536.5	467.7	391.3	321.0	267.5	243.0	229.3	221.7	220.1	223.2	220.1
60°	440.2	382.1	316.4	252.2	211.0	185.0	174.3	171.2	168.1	171.2	171.2
62.5°	348.5	299.6	246.1	197.2	162.0	143.7	131.4	131.4	129.9	129.9	131.4
65°	258.3	220.1	181.9	140.6	113.1	99.3	90.2	90.2	88.6	90.2	88.6
67.5°	188.0	162.0	131.4	102.4	81.0	73.4	67.3	62.7	65.7	62.7	61.2
70°	137.6	116.1	94.8	78.0	62.7	55.1	50.5	48.9	45.9	45.9	45.9
72.5°	91.7	78.0	64.2	50.5	41.3	33.6	32.1	29.1	26.0	27.5	30.6
75°	61.2	52.0	45.9	36.7	27.5	27.5	18.4	18.4	15.3	18.4	13.8
77.5°	42.8	35.2	27.5	22.9	18.4	16.8	12.2	12.2	10.7	10.7	10.7
80°	30.6	26.0	19.9	16.8	12.2	12.2	10.7	9.2	7.6	7.6	9.2
82.5°	18.4	13.8	13.8	12.2	7.6	6.1	4.6	6.1	3.1	3.1	3.1
85°	10.7	9.2	7.6	4.6	3.1	3.1	1.5	0.0	1.5	1.5	0.0
87.5°	6.1	3.1	3.1	1.5	0.0	1.5	1.5	0.0	0.0	0.0	3.1
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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CATALOG NUMBER: LD8B60D010 ER8B60935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4
2.5°	3148.8	3147.2	3150.3	3150.3	3159.5	3157.9	3162.5	3162.5	3159.5	3161.0	3167.1
5°	3159.5	3164.1	3173.2	3180.9	3194.6	3200.8	3208.4	3216.0	3217.6	3222.1	3226.7
7.5°	3159.5	3174.8	3185.5	3199.2	3217.6	3228.2	3245.0	3258.8	3264.9	3272.5	3281.7
10°	3153.3	3168.6	3188.5	3203.8	3226.7	3243.5	3260.3	3281.7	3290.9	3303.1	3315.4
12.5°	3141.1	3157.9	3179.3	3199.2	3225.2	3240.5	3261.8	3281.7	3295.5	3312.3	3326.1
15°	3122.8	3142.6	3162.5	3182.4	3209.9	3228.2	3248.1	3271.0	3284.8	3303.1	3315.4
17.5°	3093.7	3115.1	3133.5	3151.8	3177.8	3199.2	3217.6	3238.9	3252.7	3268.0	3284.8
20°	3058.6	3078.4	3098.3	3113.6	3139.6	3157.9	3177.8	3197.7	3208.4	3211.4	3237.4
22.5°	3014.3	3028.0	3043.3	3067.7	3083.0	3099.8	3118.2	3136.5	3147.2	3164.1	3173.2
25°	2940.8	2954.6	2971.4	2982.1	3000.5	3014.3	3032.6	3052.5	3058.6	3070.8	3080.0
27.5°	2838.5	2846.1	2853.8	2862.9	2873.6	2881.3	2892.0	2901.1	2907.3	2913.4	2919.5
30°	2676.4	2676.4	2676.4	2670.3	2674.9	2679.5	2681.0	2679.5	2679.5	2678.0	2678.0
32.5°	2462.4	2450.2	2436.5	2424.3	2419.7	2413.6	2410.5	2405.9	2398.3	2393.7	2395.2
35°	2173.5	2146.0	2129.2	2114.0	2101.7	2092.6	2088.0	2083.4	2081.9	2075.8	2069.6
37.5°	1812.8	1793.0	1780.8	1771.6	1760.9	1751.7	1753.2	1754.8	1759.3	1756.3	1757.8
40°	1430.7	1426.1	1430.7	1420.0	1416.9	1420.0	1427.6	1438.4	1444.5	1450.6	1461.3
42.5°	1088.3	1095.9	1106.7	1106.7	1111.2	1117.4	1126.5	1143.4	1152.5	1163.2	1175.4
45°	819.3	828.5	842.2	846.8	849.9	857.5	868.2	881.9	888.0	897.2	907.9
47.5°	631.3	637.4	645.0	652.7	660.3	663.4	674.1	674.1	681.8	687.9	690.9
50°	492.2	498.3	504.4	509.0	512.1	516.7	519.7	524.3	525.8	528.9	530.4
52.5°	385.2	392.8	392.8	395.9	400.5	405.0	403.5	405.0	406.6	406.6	411.2
55°	301.1	301.1	305.7	305.7	308.8	307.2	308.8	308.8	308.8	308.8	310.3
57.5°	224.7	226.2	230.8	227.8	226.2	229.3	226.2	229.3	227.8	230.8	226.2
60°	172.7	172.7	174.3	174.3	175.8	175.8	175.8	174.3	174.3	172.7	172.7
62.5°	129.9	131.4	133.0	131.4	131.4	131.4	129.9	129.9	128.4	126.8	126.8
65°	87.1	85.6	88.6	85.6	87.1	87.1	85.6	87.1	82.5	84.1	82.5
67.5°	62.7	61.2	59.6	61.2	59.6	58.1	58.1	59.6	61.2	56.6	56.6
70°	41.3	42.8	41.3	42.8	44.4	44.4	42.8	41.3	42.8	39.8	41.3
72.5°	26.0	26.0	26.0	26.0	26.0	27.5	27.5	27.5	24.5	24.5	22.9
75°	12.2	16.8	13.8	12.2	16.8	16.8	15.3	15.3	13.8	13.8	13.8
77.5°	12.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	7.6	9.2	7.6
80°	6.1	6.1	6.1	4.6	6.1	6.1	7.6	6.1	6.1	4.6	7.6
82.5°	3.1	3.1	3.1	0.0	1.5	3.1	3.1	1.5	3.1	3.1	1.5
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: P248713

CATALOG NUMBER: LD8B60D010 ER8B60935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4
2.5°	3165.6	3164.1	3165.6	3167.1	3165.6	3164.1	3165.6	3167.1	3161.0	3159.5	3162.5
5°	3232.8	3232.8	3235.9	3237.4	3235.9	3232.8	3232.8	3226.7	3222.1	3217.6	3216.0
7.5°	3290.9	3294.0	3297.0	3298.5	3297.0	3294.0	3290.9	3281.7	3272.5	3264.9	3258.8
10°	3326.1	3330.7	3336.8	3339.8	3336.8	3330.7	3326.1	3315.4	3303.1	3290.9	3281.7
12.5°	3341.4	3346.0	3353.6	3352.1	3353.6	3346.0	3341.4	3326.1	3312.3	3295.5	3281.7
15°	3330.7	3336.8	3344.4	3347.5	3344.4	3336.8	3330.7	3315.4	3303.1	3284.8	3271.0
17.5°	3297.0	3306.2	3310.8	3315.4	3310.8	3306.2	3297.0	3284.8	3268.0	3252.7	3238.9
20°	3251.1	3257.3	3263.4	3264.9	3263.4	3257.3	3251.1	3237.4	3211.4	3208.4	3197.7
22.5°	3185.5	3190.1	3203.8	3199.2	3203.8	3190.1	3185.5	3173.2	3164.1	3147.2	3136.5
25°	3090.7	3095.2	3096.8	3098.3	3096.8	3095.2	3090.7	3080.0	3070.8	3058.6	3052.5
27.5°	2927.1	2927.1	2930.2	2931.7	2930.2	2927.1	2927.1	2919.5	2913.4	2907.3	2901.1
30°	2679.5	2679.5	2679.5	2687.2	2679.5	2679.5	2679.5	2678.0	2678.0	2679.5	2679.5
32.5°	2393.7	2390.6	2387.6	2390.6	2387.6	2390.6	2393.7	2395.2	2393.7	2398.3	2405.9
35°	2069.6	2068.1	2072.7	2066.6	2072.7	2068.1	2069.6	2069.6	2075.8	2081.9	2083.4
37.5°	1759.3	1756.3	1762.4	1756.3	1762.4	1756.3	1759.3	1757.8	1756.3	1759.3	1754.8
40°	1464.4	1467.4	1467.4	1479.6	1467.4	1467.4	1464.4	1461.3	1450.6	1444.5	1438.4
42.5°	1181.5	1190.7	1187.7	1196.8	1187.7	1190.7	1181.5	1175.4	1163.2	1152.5	1143.4
45°	914.0	920.2	920.2	923.2	920.2	920.2	914.0	907.9	897.2	888.0	881.9
47.5°	701.6	701.6	701.6	703.1	701.6	701.6	701.6	690.9	687.9	681.8	674.1
50°	533.5	535.0	536.5	538.1	536.5	535.0	533.5	530.4	528.9	525.8	524.3
52.5°	409.6	411.2	408.1	411.2	408.1	411.2	409.6	411.2	406.6	406.6	405.0
55°	310.3	308.8	310.3	311.8	310.3	308.8	310.3	310.3	308.8	308.8	308.8
57.5°	227.8	224.7	224.7	224.7	224.7	224.7	227.8	226.2	230.8	227.8	229.3
60°	169.7	171.2	171.2	172.7	171.2	171.2	169.7	172.7	172.7	174.3	174.3
62.5°	125.3	129.9	126.8	129.9	126.8	129.9	125.3	126.8	126.8	128.4	129.9
65°	81.0	81.0	81.0	82.5	81.0	81.0	81.0	82.5	84.1	82.5	87.1
67.5°	55.1	56.6	59.6	58.1	59.6	56.6	55.1	56.6	56.6	61.2	59.6
70°	44.4	39.8	39.8	44.4	39.8	39.8	44.4	41.3	39.8	42.8	41.3
72.5°	26.0	22.9	26.0	26.0	26.0	22.9	26.0	22.9	24.5	24.5	27.5
75°	13.8	12.2	10.7	15.3	10.7	12.2	13.8	13.8	13.8	13.8	15.3
77.5°	9.2	7.6	10.7	10.7	10.7	7.6	9.2	7.6	9.2	7.6	9.2
80°	4.6	6.1	4.6	7.6	4.6	6.1	4.6	7.6	4.6	6.1	6.1
82.5°	1.5	3.1	3.1	3.1	3.1	3.1	1.5	1.5	3.1	3.1	1.5
85°	0.0	3.1	1.5	1.5	1.5	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.0	0.0	1.5	0.0	0.0	1.5	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: P248713

CATALOG NUMBER: LD8B60D010 ER8B60935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4
2.5°	3162.5	3157.9	3159.5	3150.3	3150.3	3147.2	3148.8	3141.1	3138.1	3135.0	3139.6
5°	3208.4	3200.8	3194.6	3180.9	3173.2	3164.1	3159.5	3147.2	3136.5	3127.3	3125.8
7.5°	3245.0	3228.2	3217.6	3199.2	3185.5	3174.8	3159.5	3142.6	3128.9	3116.6	3107.5
10°	3260.3	3243.5	3226.7	3203.8	3188.5	3168.6	3153.3	3131.9	3113.6	3096.8	3086.1
12.5°	3261.8	3240.5	3225.2	3199.2	3179.3	3157.9	3141.1	3116.6	3095.2	3078.4	3061.6
15°	3248.1	3228.2	3209.9	3182.4	3162.5	3142.6	3122.8	3096.8	3076.9	3057.1	3044.8
17.5°	3217.6	3199.2	3177.8	3151.8	3133.5	3115.1	3093.7	3072.3	3049.4	3028.0	3012.7
20°	3177.8	3157.9	3139.6	3113.6	3098.3	3078.4	3058.6	3035.7	3017.3	2995.9	2979.1
22.5°	3118.2	3099.8	3083.0	3067.7	3043.3	3028.0	3014.3	2988.3	2969.9	2950.0	2931.7
25°	3032.6	3014.3	3000.5	2982.1	2971.4	2954.6	2940.8	2917.9	2901.1	2882.8	2867.5
27.5°	2892.0	2881.3	2873.6	2862.9	2853.8	2846.1	2838.5	2820.1	2807.9	2791.1	2775.8
30°	2681.0	2679.5	2674.9	2670.3	2676.4	2676.4	2676.4	2673.4	2662.7	2650.4	2639.7
32.5°	2410.5	2413.6	2419.7	2424.3	2436.5	2450.2	2462.4	2468.5	2468.5	2460.9	2456.3
35°	2088.0	2092.6	2101.7	2114.0	2129.2	2146.0	2173.5	2179.7	2184.2	2184.2	2178.1
37.5°	1753.2	1751.7	1760.9	1771.6	1780.8	1793.0	1812.8	1817.4	1825.0	1822.0	1815.9
40°	1427.6	1420.0	1416.9	1420.0	1430.7	1426.1	1430.7	1427.6	1427.6	1416.9	1416.9
42.5°	1126.5	1117.4	1111.2	1106.7	1106.7	1095.9	1088.3	1080.7	1076.1	1068.4	1066.9
45°	868.2	857.5	849.9	846.8	842.2	828.5	819.3	810.1	799.4	796.4	797.9
47.5°	674.1	663.4	660.3	652.7	645.0	637.4	631.3	620.6	619.0	612.9	619.0
50°	519.7	516.7	512.1	509.0	504.4	498.3	492.2	486.1	483.0	483.0	484.5
52.5°	403.5	405.0	400.5	395.9	392.8	392.8	385.2	383.7	383.7	377.6	383.7
55°	308.8	307.2	308.8	305.7	305.7	301.1	301.1	296.5	296.5	291.9	295.0
57.5°	226.2	229.3	226.2	227.8	230.8	226.2	224.7	220.1	223.2	220.1	221.7
60°	175.8	175.8	175.8	174.3	174.3	172.7	172.7	171.2	171.2	168.1	171.2
62.5°	129.9	131.4	131.4	131.4	133.0	131.4	129.9	131.4	129.9	129.9	131.4
65°	85.6	87.1	87.1	85.6	88.6	85.6	87.1	88.6	90.2	88.6	90.2
67.5°	58.1	58.1	59.6	61.2	59.6	61.2	62.7	61.2	62.7	65.7	62.7
70°	42.8	44.4	44.4	42.8	41.3	42.8	41.3	45.9	45.9	45.9	48.9
72.5°	27.5	27.5	26.0	26.0	26.0	26.0	26.0	30.6	27.5	26.0	29.1
75°	15.3	16.8	16.8	12.2	13.8	16.8	12.2	13.8	18.4	15.3	18.4
77.5°	9.2	9.2	9.2	9.2	9.2	9.2	12.2	10.7	10.7	10.7	12.2
80°	7.6	6.1	6.1	4.6	6.1	6.1	6.1	9.2	7.6	7.6	9.2
82.5°	3.1	3.1	1.5	0.0	3.1	3.1	3.1	3.1	3.1	3.1	6.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	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: P248713

CATALOG NUMBER: LD8B60D010 ER8B60935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4
2.5°	3127.3	3127.3	3125.8	3122.8	3116.6	3116.6	3115.1	3110.5	3107.5	3105.9	3105.9
5°	3112.0	3105.9	3099.8	3083.0	3083.0	3080.0	3070.8	3064.7	3061.6	3054.0	3051.0
7.5°	3098.3	3080.0	3069.3	3058.6	3044.8	3038.7	3028.0	3023.4	3012.7	3005.1	3000.5
10°	3064.7	3052.5	3038.7	3021.9	3011.2	2999.0	2986.7	2977.6	2963.8	2956.1	2950.0
12.5°	3041.8	3023.4	3011.2	2992.8	2974.5	2963.8	2947.0	2936.3	2922.5	2907.3	2898.1
15°	3020.4	3000.5	2983.7	2963.8	2943.9	2931.7	2911.8	2899.6	2879.8	2864.5	2853.8
17.5°	2988.3	2971.4	2953.1	2928.6	2910.3	2895.0	2873.6	2858.4	2840.0	2820.1	2809.4
20°	2954.6	2934.7	2916.4	2892.0	2873.6	2855.3	2833.9	2817.1	2795.6	2777.3	2765.1
22.5°	2910.3	2887.4	2872.1	2847.6	2826.2	2806.4	2786.5	2766.6	2746.8	2731.5	2717.7
25°	2846.1	2821.6	2804.8	2784.9	2765.1	2749.8	2725.4	2713.2	2693.3	2679.5	2665.7
27.5°	2754.4	2736.1	2720.8	2700.9	2684.1	2671.9	2653.5	2641.3	2624.4	2612.2	2601.5
30°	2619.9	2604.6	2590.9	2571.0	2558.8	2548.1	2531.2	2520.5	2508.3	2494.5	2491.5
32.5°	2439.5	2427.3	2413.6	2399.8	2390.6	2384.5	2370.7	2364.6	2352.4	2344.7	2337.1
35°	2167.4	2156.7	2149.1	2143.0	2139.9	2141.4	2138.4	2144.5	2147.6	2146.0	2147.6
37.5°	1811.3	1805.2	1808.2	1812.8	1828.1	1848.0	1866.3	1893.8	1912.2	1930.6	1947.4
40°	1413.9	1418.5	1430.7	1458.2	1498.0	1542.3	1583.6	1635.5	1687.5	1724.2	1757.8
42.5°	1066.9	1080.7	1111.2	1151.0	1210.6	1276.3	1340.5	1416.9	1479.6	1540.7	1583.6
45°	802.5	820.8	860.6	915.6	981.3	1057.7	1138.8	1224.3	1299.3	1361.9	1409.3
47.5°	625.2	642.0	681.8	739.8	820.8	900.3	984.4	1073.0	1151.0	1212.1	1253.4
50°	493.7	515.1	550.3	611.4	692.4	776.5	863.6	950.7	1024.1	1076.1	1112.8
52.5°	388.3	408.1	441.7	506.0	588.5	672.6	753.5	839.2	903.3	953.8	978.3
55°	301.1	319.5	354.6	408.1	486.1	568.6	649.6	723.0	782.6	819.3	842.2
57.5°	229.3	243.0	267.5	321.0	391.3	467.7	536.5	609.9	655.8	681.8	697.0
60°	174.3	185.0	211.0	252.2	316.4	382.1	440.2	495.3	531.9	553.3	568.6
62.5°	131.4	143.7	162.0	197.2	246.1	299.6	348.5	389.8	420.3	434.1	444.8
65°	90.2	99.3	113.1	140.6	181.9	220.1	258.3	288.9	308.8	324.1	330.2
67.5°	67.3	73.4	81.0	102.4	131.4	162.0	188.0	209.4	230.8	236.9	247.6
70°	50.5	55.1	62.7	78.0	94.8	116.1	137.6	149.8	165.1	175.8	178.9
72.5°	32.1	33.6	41.3	50.5	64.2	78.0	91.7	102.4	111.6	117.7	120.7
75°	18.4	27.5	27.5	36.7	45.9	52.0	61.2	68.8	73.4	78.0	78.0
77.5°	12.2	16.8	18.4	22.9	27.5	35.2	42.8	47.4	52.0	53.5	53.5
80°	10.7	12.2	12.2	16.8	19.9	26.0	30.6	32.1	35.2	36.7	39.8
82.5°	4.6	6.1	7.6	12.2	13.8	13.8	18.4	19.9	22.9	24.5	24.5
85°	1.5	3.1	3.1	4.6	7.6	9.2	10.7	12.2	13.8	13.8	15.3
87.5°	1.5	1.5	0.0	1.5	3.1	3.1	6.1	6.1	6.1	9.2	9.2
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: P248713

CATALOG NUMBER: LD8B60D010 ER8B60935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4	3130.4
2.5°	3102.9	3104.4	3098.3	3096.8	3093.7	3095.2	3098.3
5°	3046.4	3047.9	3041.8	3035.7	3035.7	3034.1	3035.7
7.5°	2992.8	2994.4	2985.2	2982.1	2976.0	2977.6	2977.6
10°	2939.3	2939.3	2925.6	2924.1	2919.5	2917.9	2917.9
12.5°	2887.4	2882.8	2872.1	2866.0	2869.1	2859.9	2859.9
15°	2841.5	2833.9	2820.1	2815.5	2807.9	2804.8	2804.8
17.5°	2794.1	2788.0	2775.8	2766.6	2757.5	2755.9	2757.5
20°	2748.3	2742.2	2726.9	2720.8	2713.2	2713.2	2710.1
22.5°	2702.4	2696.3	2682.6	2678.0	2667.3	2667.3	2668.8
25°	2655.0	2650.4	2635.1	2632.1	2630.6	2624.4	2627.5
27.5°	2590.9	2587.8	2575.6	2571.0	2564.9	2563.4	2566.4
30°	2473.1	2468.5	2459.4	2454.8	2444.1	2445.6	2448.7
32.5°	2326.4	2320.3	2308.0	2303.5	2294.3	2291.2	2292.8
35°	2143.0	2138.4	2127.7	2127.7	2118.5	2115.5	2118.5
37.5°	1956.5	1961.1	1956.5	1961.1	1956.5	1955.0	1956.5
40°	1780.8	1797.6	1800.6	1817.4	1811.3	1820.5	1818.9
42.5°	1612.6	1640.1	1650.8	1664.5	1661.5	1667.6	1672.2
45°	1442.9	1465.9	1476.6	1485.7	1487.3	1490.3	1491.8
47.5°	1282.4	1300.8	1302.3	1313.0	1311.5	1311.5	1316.1
50°	1132.7	1144.9	1147.9	1155.6	1149.5	1146.4	1147.9
52.5°	993.6	1005.8	1002.7	1005.8	998.2	995.1	996.6
55°	851.4	857.5	857.5	857.5	848.3	848.3	848.3
57.5°	706.2	707.7	704.7	706.2	704.7	695.5	694.0
60°	573.2	573.2	571.6	573.2	568.6	564.0	564.0
62.5°	447.8	450.9	457.0	450.9	447.8	450.9	446.3
65°	334.8	340.9	339.3	342.4	340.9	340.9	337.8
67.5°	252.2	253.7	255.2	256.8	256.8	256.8	256.8
70°	185.0	189.6	188.0	188.0	188.0	188.0	197.2
72.5°	123.8	129.9	128.4	131.4	131.4	134.5	131.4
75°	84.1	90.2	87.1	91.7	90.2	87.1	94.8
77.5°	56.6	59.6	61.2	62.7	61.2	59.6	61.2
80°	39.8	42.8	41.3	42.8	42.8	42.8	44.4
82.5°	24.5	29.1	27.5	29.1	27.5	29.1	29.1
85°	16.8	18.4	15.3	18.4	16.8	16.8	19.9
87.5°	10.7	9.2	9.2	10.7	9.2	10.7	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)