

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: P248722

Luminaire Tested: **LD8B60D010 ER8B60940 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248722
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 ER8B60940 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5507.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

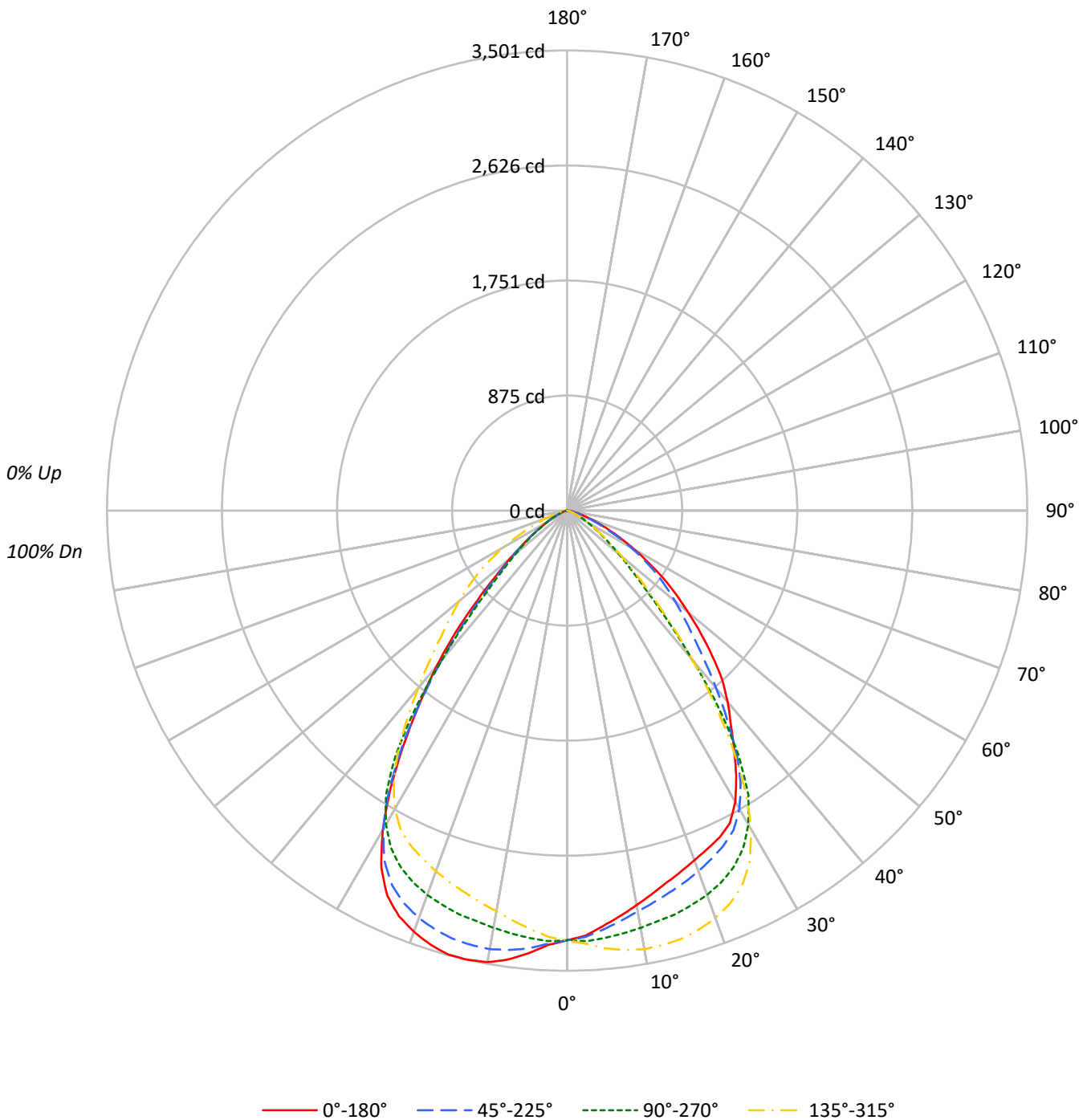
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	100813	100813	100813	100813
5°	98137	101050	104659	101050
10°	95420	100919	109216	100919
15°	93515	101519	111607	101519
20°	92877	102098	111894	102098
25°	93366	101892	110095	101892
30°	91057	98164	99927	98164
35°	83292	85633	81247	85633
40°	76470	59568	62204	59568
45°	67947	36339	42048	36339
50°	57510	24274	26956	24274
55°	47633	16564	17505	16564
60°	36331	11027	11126	11027
65°	25742	6873	6290	6873
70°	18564	4607	4174	4607
75°	11795	2288	1906	2288
80°	8222	1705	1421	1705
85°	7359	0	566	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	5.7
10°-20°	901.1	16.4
20°-30°	1364.5	24.8
30°-40°	1367.5	24.8
40°-50°	858.7	15.6
50°-60°	457.6	8.3
60°-70°	188.2	3.4
70°-80°	49.7	0.9
80°-90°	8.4	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°	2576.8	46.8
0°-40°	3944.3	71.6
0°-60°	5260.7	95.5
0°-90°	5507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5507.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3269	3269	3269	3269	3269	
5°	3170	3264	3381	3264	3170	299
15°	2929	3180	3496	3180	2929	828
25°	2744	2995	3236	2995	2744	1259
35°	2213	2275	2158	2275	2213	1386
45°	1558	833	964	833	1558	1198
55°	886	308	326	308	886	790
65°	353	94	86	94	353	366
75°	99	19	16	19	99	112
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°	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3
2.5°	3235.8	3232.6	3231.0	3234.2	3235.8	3242.2	3240.6	3243.8	3243.8	3245.4	3248.6
5°	3170.4	3168.7	3170.4	3170.4	3176.7	3183.1	3181.5	3186.3	3189.5	3197.5	3200.7
7.5°	3109.7	3109.7	3108.1	3114.5	3117.7	3127.3	3125.6	3133.6	3138.4	3146.4	3157.6
10°	3047.4	3047.4	3049.0	3053.8	3055.5	3069.8	3069.8	3080.9	3087.3	3095.3	3109.7
12.5°	2986.8	2986.8	2996.4	2993.2	2999.5	3010.7	3015.5	3026.7	3036.3	3052.2	3066.6
15°	2929.3	2929.3	2932.5	2940.5	2945.3	2959.7	2967.6	2980.4	2991.6	3007.6	3028.3
17.5°	2879.8	2878.2	2879.8	2889.4	2899.0	2911.8	2918.1	2934.1	2945.3	2966.0	2985.2
20°	2830.3	2833.6	2833.6	2841.5	2847.9	2863.9	2870.2	2887.8	2900.6	2919.7	2942.1
22.5°	2787.2	2785.7	2785.7	2796.8	2801.6	2816.0	2822.3	2838.3	2852.7	2868.6	2889.4
25°	2744.1	2740.9	2747.4	2748.9	2752.1	2768.1	2772.8	2784.0	2798.4	2812.8	2833.6
27.5°	2680.3	2677.1	2678.7	2685.1	2689.9	2702.6	2705.8	2717.0	2728.2	2740.9	2758.5
30°	2557.3	2554.2	2552.6	2563.8	2568.6	2578.1	2582.9	2602.1	2605.2	2619.6	2632.4
32.5°	2394.5	2392.9	2396.1	2405.7	2410.5	2423.3	2429.7	2440.8	2448.8	2456.8	2469.5
35°	2212.6	2209.3	2212.6	2222.2	2222.2	2233.3	2238.1	2242.9	2241.3	2242.9	2239.7
37.5°	2043.4	2041.7	2043.4	2048.1	2043.4	2048.1	2043.4	2033.8	2016.2	1997.0	1977.9
40°	1899.7	1901.2	1891.7	1898.1	1880.5	1877.3	1859.8	1835.8	1800.7	1762.4	1708.1
42.5°	1746.4	1741.6	1735.3	1738.4	1724.1	1712.9	1684.1	1653.9	1609.1	1545.3	1479.8
45°	1558.1	1556.5	1553.3	1551.7	1542.1	1530.9	1506.9	1471.8	1422.4	1356.9	1278.7
47.5°	1374.5	1369.7	1369.7	1371.2	1360.1	1358.5	1339.3	1309.0	1265.9	1202.0	1120.6
50°	1198.8	1197.3	1200.5	1206.8	1198.8	1195.7	1182.9	1162.2	1123.9	1069.6	992.9
52.5°	1040.8	1039.2	1042.4	1050.4	1047.2	1050.4	1037.6	1021.7	996.1	943.4	876.4
55°	886.0	886.0	886.0	895.5	895.5	895.5	889.2	879.6	855.6	817.3	755.1
57.5°	724.8	726.3	735.9	737.5	735.9	739.1	737.5	727.9	712.0	684.9	637.0
60°	589.1	589.1	593.9	598.7	597.0	598.7	598.7	593.9	577.9	555.6	517.2
62.5°	466.1	470.9	467.7	470.9	477.3	470.9	467.7	464.6	453.4	439.0	407.1
65°	352.8	356.0	356.0	357.6	354.4	356.0	349.6	344.8	338.5	322.5	301.7
67.5°	268.2	268.2	268.2	268.2	266.6	265.0	263.4	258.6	247.5	241.1	218.7
70°	205.9	196.3	196.3	196.3	196.3	198.0	193.2	186.8	183.6	172.4	156.4
72.5°	137.3	140.5	137.3	137.3	134.1	135.7	129.3	126.1	122.9	116.6	107.0
75°	99.0	91.0	94.2	95.8	91.0	94.2	87.8	81.4	81.4	76.6	71.8
77.5°	63.9	62.3	63.9	65.4	63.9	62.3	59.1	55.9	55.9	54.3	49.5
80°	46.3	44.7	44.7	44.7	43.1	44.7	41.5	41.5	38.3	36.7	33.5
82.5°	30.4	30.4	28.7	30.4	28.7	30.4	25.6	25.6	25.6	23.9	20.8
85°	20.8	17.5	17.5	19.2	16.0	19.2	17.5	16.0	14.4	14.4	12.7
87.5°	9.6	11.2	9.6	11.2	9.6	9.6	11.2	9.6	9.6	6.4	6.4
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°	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3
2.5°	3253.4	3254.9	3254.9	3261.4	3264.5	3266.1	3266.1	3278.9	3274.1	3277.3	3280.5
5°	3207.1	3216.6	3219.9	3219.9	3237.4	3243.8	3250.1	3264.5	3266.1	3275.7	3286.9
7.5°	3162.4	3173.5	3180.0	3194.3	3205.5	3216.6	3235.8	3245.4	3254.9	3267.8	3282.1
10°	3119.3	3132.1	3144.8	3156.0	3173.5	3187.9	3200.7	3223.0	3234.2	3251.8	3270.9
12.5°	3077.8	3095.3	3106.5	3125.6	3144.8	3157.6	3176.7	3197.5	3215.1	3232.6	3254.9
15°	3041.1	3061.8	3074.6	3095.3	3116.1	3133.6	3154.4	3180.0	3192.7	3213.5	3234.2
17.5°	3001.1	3023.5	3039.5	3058.6	3084.2	3103.3	3120.9	3146.4	3162.4	3184.7	3208.7
20°	2959.7	2982.0	3001.1	3020.3	3045.9	3065.0	3085.7	3111.3	3128.8	3151.2	3170.4
22.5°	2910.2	2930.9	2951.6	2974.0	2999.5	3015.5	3039.5	3061.8	3080.9	3101.7	3120.9
25°	2846.3	2871.9	2887.8	2908.5	2929.3	2946.8	2972.4	2994.7	3010.7	3029.9	3047.4
27.5°	2771.3	2790.5	2803.2	2820.7	2841.5	2857.5	2876.6	2899.0	2915.0	2932.5	2945.3
30°	2643.5	2661.1	2672.3	2685.1	2705.8	2720.2	2736.2	2756.9	2768.1	2780.9	2792.0
32.5°	2475.9	2490.3	2496.7	2506.3	2520.7	2535.0	2547.8	2565.3	2570.1	2578.1	2578.1
35°	2233.3	2236.5	2234.9	2238.1	2244.5	2252.4	2263.6	2274.8	2281.2	2281.2	2276.4
37.5°	1949.1	1930.0	1909.3	1893.3	1888.5	1885.3	1891.7	1896.4	1902.9	1906.0	1898.1
40°	1653.9	1610.7	1564.4	1522.9	1494.2	1481.4	1476.6	1479.8	1479.8	1491.0	1491.0
42.5°	1400.0	1332.9	1264.3	1202.0	1160.5	1128.7	1114.3	1114.3	1115.8	1123.9	1128.7
45°	1189.3	1104.7	1024.8	956.2	898.7	857.2	838.1	833.3	831.7	834.9	846.0
47.5°	1028.1	940.3	857.2	772.7	712.0	670.5	652.9	646.5	640.1	646.5	648.1
50°	902.0	811.0	723.2	638.5	574.7	537.9	515.6	506.0	504.4	504.4	507.7
52.5°	787.0	702.4	614.6	528.4	461.3	426.2	405.5	400.7	394.3	400.7	400.7
55°	678.4	593.9	507.7	426.2	370.3	333.7	314.5	308.1	304.9	309.7	309.7
57.5°	560.4	488.5	408.7	335.2	279.4	253.8	239.4	231.5	229.8	233.1	229.8
60°	459.8	399.1	330.4	263.4	220.3	193.2	182.0	178.8	175.6	178.8	178.8
62.5°	364.0	312.9	257.0	205.9	169.2	150.1	137.3	137.3	135.7	135.7	137.3
65°	269.8	229.8	190.0	146.9	118.1	103.8	94.2	94.2	92.6	94.2	92.6
67.5°	196.3	169.2	137.3	107.0	84.6	76.6	70.2	65.4	68.7	65.4	63.9
70°	143.7	121.3	99.0	81.4	65.4	57.5	52.7	51.1	47.9	47.9	47.9
72.5°	95.8	81.4	67.0	52.7	43.1	35.1	33.5	30.4	27.1	28.7	31.9
75°	63.9	54.3	47.9	38.3	28.7	28.7	19.2	19.2	16.0	19.2	14.4
77.5°	44.7	36.7	28.7	23.9	19.2	17.5	12.7	12.7	11.2	11.2	11.2
80°	31.9	27.1	20.8	17.5	12.7	12.7	11.2	9.6	8.0	8.0	9.6
82.5°	19.2	14.4	14.4	12.7	8.0	6.4	4.8	6.4	3.2	3.2	3.2
85°	11.2	9.6	8.0	4.8	3.2	3.2	1.6	0.0	1.6	1.6	0.0
87.5°	6.4	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°	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3
2.5°	3288.5	3286.9	3290.1	3290.1	3299.7	3298.0	3302.8	3302.8	3299.7	3301.3	3307.6
5°	3299.7	3304.5	3314.0	3322.0	3336.4	3342.8	3350.7	3358.8	3360.3	3365.1	3369.9
7.5°	3299.7	3315.7	3326.8	3341.1	3360.3	3371.5	3389.1	3403.4	3409.8	3417.8	3427.4
10°	3293.2	3309.2	3330.0	3345.9	3369.9	3387.5	3405.0	3427.4	3437.0	3449.7	3462.5
12.5°	3280.5	3298.0	3320.4	3341.1	3368.3	3384.3	3406.6	3427.4	3441.7	3459.3	3473.7
15°	3261.4	3282.1	3302.8	3323.6	3352.3	3371.5	3392.3	3416.2	3430.6	3449.7	3462.5
17.5°	3231.0	3253.4	3272.6	3291.7	3318.8	3341.1	3360.3	3382.7	3397.1	3413.0	3430.6
20°	3194.3	3215.1	3235.8	3251.8	3278.9	3298.0	3318.8	3339.6	3350.7	3354.0	3381.1
22.5°	3148.0	3162.4	3178.3	3203.9	3219.9	3237.4	3256.6	3275.7	3286.9	3304.5	3314.0
25°	3071.4	3085.7	3103.3	3114.5	3133.6	3148.0	3167.2	3187.9	3194.3	3207.1	3216.6
27.5°	2964.4	2972.4	2980.4	2989.9	3001.1	3009.1	3020.3	3029.9	3036.3	3042.6	3049.0
30°	2795.2	2795.2	2795.2	2788.8	2793.6	2798.4	2800.0	2798.4	2798.4	2796.8	2796.8
32.5°	2571.7	2559.0	2544.6	2531.8	2527.0	2520.7	2517.4	2512.6	2504.7	2499.9	2501.5
35°	2270.0	2241.3	2223.7	2207.8	2195.0	2185.4	2180.6	2175.8	2174.3	2167.9	2161.4
37.5°	1893.3	1872.5	1859.8	1850.2	1839.0	1829.4	1831.0	1832.6	1837.4	1834.2	1835.8
40°	1494.2	1489.4	1494.2	1483.0	1479.8	1483.0	1491.0	1502.2	1508.6	1514.9	1526.1
42.5°	1136.6	1144.6	1155.8	1155.8	1160.5	1167.0	1176.5	1194.1	1203.6	1214.8	1227.6
45°	855.6	865.2	879.6	884.4	887.6	895.5	906.8	921.1	927.5	937.1	948.2
47.5°	659.3	665.7	673.6	681.6	689.6	692.8	704.0	704.0	712.0	718.4	721.5
50°	514.0	520.4	526.8	531.6	534.8	539.6	542.7	547.5	549.1	552.3	553.9
52.5°	402.3	410.3	410.3	413.4	418.2	423.0	421.4	423.0	424.6	424.6	429.4
55°	314.5	314.5	319.3	319.3	322.5	320.8	322.5	322.5	322.5	322.5	324.1
57.5°	234.6	236.3	241.1	237.9	236.3	239.4	236.3	239.4	237.9	241.1	236.3
60°	180.4	180.4	182.0	182.0	183.6	183.6	183.6	182.0	182.0	180.4	180.4
62.5°	135.7	137.3	138.9	137.3	137.3	137.3	135.7	135.7	134.1	132.5	132.5
65°	91.0	89.4	92.6	89.4	91.0	91.0	89.4	91.0	86.2	87.8	86.2
67.5°	65.4	63.9	62.3	63.9	62.3	60.6	60.6	62.3	63.9	59.1	59.1
70°	43.1	44.7	43.1	44.7	46.3	46.3	44.7	43.1	44.7	41.5	43.1
72.5°	27.1	27.1	27.1	27.1	27.1	28.7	28.7	28.7	25.6	25.6	23.9
75°	12.7	17.5	14.4	12.7	17.5	17.5	16.0	16.0	14.4	14.4	14.4
77.5°	12.7	9.6	9.6	9.6	9.6	9.6	9.6	9.6	8.0	9.6	8.0
80°	6.4	6.4	6.4	4.8	6.4	6.4	8.0	6.4	6.4	4.8	8.0
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: P248722

CATALOG NUMBER: LD8B60D010 ER8B60940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3
2.5°	3306.1	3304.5	3306.1	3307.6	3306.1	3304.5	3306.1	3307.6	3301.3	3299.7	3302.8
5°	3376.3	3376.3	3379.5	3381.1	3379.5	3376.3	3376.3	3369.9	3365.1	3360.3	3358.8
7.5°	3437.0	3440.2	3443.3	3444.9	3443.3	3440.2	3437.0	3427.4	3417.8	3409.8	3403.4
10°	3473.7	3478.5	3484.9	3488.0	3484.9	3478.5	3473.7	3462.5	3449.7	3437.0	3427.4
12.5°	3489.6	3494.4	3502.4	3500.8	3502.4	3494.4	3489.6	3473.7	3459.3	3441.7	3427.4
15°	3478.5	3484.9	3492.8	3496.0	3492.8	3484.9	3478.5	3462.5	3449.7	3430.6	3416.2
17.5°	3443.3	3452.9	3457.7	3462.5	3457.7	3452.9	3443.3	3430.6	3413.0	3397.1	3382.7
20°	3395.4	3401.9	3408.2	3409.8	3408.2	3401.9	3395.4	3381.1	3354.0	3350.7	3339.6
22.5°	3326.8	3331.6	3345.9	3341.1	3345.9	3331.6	3326.8	3314.0	3304.5	3286.9	3275.7
25°	3227.8	3232.6	3234.2	3235.8	3234.2	3232.6	3227.8	3216.6	3207.1	3194.3	3187.9
27.5°	3057.0	3057.0	3060.2	3061.8	3060.2	3057.0	3057.0	3049.0	3042.6	3036.3	3029.9
30°	2798.4	2798.4	2798.4	2806.4	2798.4	2798.4	2798.4	2796.8	2796.8	2798.4	2798.4
32.5°	2499.9	2496.7	2493.5	2496.7	2493.5	2496.7	2499.9	2501.5	2499.9	2504.7	2512.6
35°	2161.4	2159.9	2164.7	2158.3	2164.7	2159.9	2161.4	2161.4	2167.9	2174.3	2175.8
37.5°	1837.4	1834.2	1840.6	1834.2	1840.6	1834.2	1837.4	1835.8	1834.2	1837.4	1832.6
40°	1529.3	1532.5	1532.5	1545.3	1532.5	1532.5	1529.3	1526.1	1514.9	1508.6	1502.2
42.5°	1234.0	1243.6	1240.4	1249.9	1240.4	1243.6	1234.0	1227.6	1214.8	1203.6	1194.1
45°	954.6	961.0	961.0	964.2	961.0	961.0	954.6	948.2	937.1	927.5	921.1
47.5°	732.7	732.7	732.7	734.3	732.7	732.7	732.7	721.5	718.4	712.0	704.0
50°	557.1	558.7	560.4	561.9	560.4	558.7	557.1	553.9	552.3	549.1	547.5
52.5°	427.8	429.4	426.2	429.4	426.2	429.4	427.8	429.4	424.6	424.6	423.0
55°	324.1	322.5	324.1	325.6	324.1	322.5	324.1	324.1	322.5	322.5	322.5
57.5°	237.9	234.6	234.6	234.6	234.6	234.6	237.9	236.3	241.1	237.9	239.4
60°	177.2	178.8	178.8	180.4	178.8	178.8	177.2	180.4	180.4	182.0	182.0
62.5°	130.9	135.7	132.5	135.7	132.5	135.7	130.9	132.5	132.5	134.1	135.7
65°	84.6	84.6	84.6	86.2	84.6	84.6	84.6	86.2	87.8	86.2	91.0
67.5°	57.5	59.1	62.3	60.6	62.3	59.1	57.5	59.1	59.1	63.9	62.3
70°	46.3	41.5	41.5	46.3	41.5	41.5	46.3	43.1	41.5	44.7	43.1
72.5°	27.1	23.9	27.1	27.1	27.1	23.9	27.1	23.9	25.6	25.6	28.7
75°	14.4	12.7	11.2	16.0	11.2	12.7	14.4	14.4	14.4	14.4	16.0
77.5°	9.6	8.0	11.2	11.2	11.2	8.0	9.6	8.0	9.6	8.0	9.6
80°	4.8	6.4	4.8	8.0	4.8	6.4	4.8	8.0	4.8	6.4	6.4
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: P248722

CATALOG NUMBER: LD8B60D010 ER8B60940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3
2.5°	3302.8	3298.0	3299.7	3290.1	3290.1	3286.9	3288.5	3280.5	3277.3	3274.1	3278.9
5°	3350.7	3342.8	3336.4	3322.0	3314.0	3304.5	3299.7	3286.9	3275.7	3266.1	3264.5
7.5°	3389.1	3371.5	3360.3	3341.1	3326.8	3315.7	3299.7	3282.1	3267.8	3254.9	3245.4
10°	3405.0	3387.5	3369.9	3345.9	3330.0	3309.2	3293.2	3270.9	3251.8	3234.2	3223.0
12.5°	3406.6	3384.3	3368.3	3341.1	3320.4	3298.0	3280.5	3254.9	3232.6	3215.1	3197.5
15°	3392.3	3371.5	3352.3	3323.6	3302.8	3282.1	3261.4	3234.2	3213.5	3192.7	3180.0
17.5°	3360.3	3341.1	3318.8	3291.7	3272.6	3253.4	3231.0	3208.7	3184.7	3162.4	3146.4
20°	3318.8	3298.0	3278.9	3251.8	3235.8	3215.1	3194.3	3170.4	3151.2	3128.8	3111.3
22.5°	3256.6	3237.4	3219.9	3203.9	3178.3	3162.4	3148.0	3120.9	3101.7	3080.9	3061.8
25°	3167.2	3148.0	3133.6	3114.5	3103.3	3085.7	3071.4	3047.4	3029.9	3010.7	2994.7
27.5°	3020.3	3009.1	3001.1	2989.9	2980.4	2972.4	2964.4	2945.3	2932.5	2915.0	2899.0
30°	2800.0	2798.4	2793.6	2788.8	2795.2	2795.2	2795.2	2792.0	2780.9	2768.1	2756.9
32.5°	2517.4	2520.7	2527.0	2531.8	2544.6	2559.0	2571.7	2578.1	2578.1	2570.1	2565.3
35°	2180.6	2185.4	2195.0	2207.8	2223.7	2241.3	2270.0	2276.4	2281.2	2281.2	2274.8
37.5°	1831.0	1829.4	1839.0	1850.2	1859.8	1872.5	1893.3	1898.1	1906.0	1902.9	1896.4
40°	1491.0	1483.0	1479.8	1483.0	1494.2	1489.4	1494.2	1491.0	1491.0	1479.8	1479.8
42.5°	1176.5	1167.0	1160.5	1155.8	1155.8	1144.6	1136.6	1128.7	1123.9	1115.8	1114.3
45°	906.8	895.5	887.6	884.4	879.6	865.2	855.6	846.0	834.9	831.7	833.3
47.5°	704.0	692.8	689.6	681.6	673.6	665.7	659.3	648.1	646.5	640.1	646.5
50°	542.7	539.6	534.8	531.6	526.8	520.4	514.0	507.7	504.4	504.4	506.0
52.5°	421.4	423.0	418.2	413.4	410.3	410.3	402.3	400.7	400.7	394.3	400.7
55°	322.5	320.8	322.5	319.3	319.3	314.5	314.5	309.7	309.7	304.9	308.1
57.5°	236.3	239.4	236.3	237.9	241.1	236.3	234.6	229.8	233.1	229.8	231.5
60°	183.6	183.6	183.6	182.0	182.0	180.4	180.4	178.8	178.8	175.6	178.8
62.5°	135.7	137.3	137.3	137.3	138.9	137.3	135.7	137.3	135.7	135.7	137.3
65°	89.4	91.0	91.0	89.4	92.6	89.4	91.0	92.6	94.2	92.6	94.2
67.5°	60.6	60.6	62.3	63.9	62.3	63.9	65.4	63.9	65.4	68.7	65.4
70°	44.7	46.3	46.3	44.7	43.1	44.7	43.1	47.9	47.9	47.9	51.1
72.5°	28.7	28.7	27.1	27.1	27.1	27.1	27.1	31.9	28.7	27.1	30.4
75°	16.0	17.5	17.5	12.7	14.4	17.5	12.7	14.4	19.2	16.0	19.2
77.5°	9.6	9.6	9.6	9.6	9.6	9.6	12.7	11.2	11.2	11.2	12.7
80°	8.0	6.4	6.4	4.8	6.4	6.4	6.4	9.6	8.0	8.0	9.6
82.5°	3.2	3.2	1.6	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.4
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: P248722

CATALOG NUMBER: LD8B60D010 ER8B60940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3
2.5°	3266.1	3266.1	3264.5	3261.4	3254.9	3254.9	3253.4	3248.6	3245.4	3243.8	3243.8
5°	3250.1	3243.8	3237.4	3219.9	3219.9	3216.6	3207.1	3200.7	3197.5	3189.5	3186.3
7.5°	3235.8	3216.6	3205.5	3194.3	3180.0	3173.5	3162.4	3157.6	3146.4	3138.4	3133.6
10°	3200.7	3187.9	3173.5	3156.0	3144.8	3132.1	3119.3	3109.7	3095.3	3087.3	3080.9
12.5°	3176.7	3157.6	3144.8	3125.6	3106.5	3095.3	3077.8	3066.6	3052.2	3036.3	3026.7
15°	3154.4	3133.6	3116.1	3095.3	3074.6	3061.8	3041.1	3028.3	3007.6	2991.6	2980.4
17.5°	3120.9	3103.3	3084.2	3058.6	3039.5	3023.5	3001.1	2985.2	2966.0	2945.3	2934.1
20°	3085.7	3065.0	3045.9	3020.3	3001.1	2982.0	2959.7	2942.1	2919.7	2900.6	2887.8
22.5°	3039.5	3015.5	2999.5	2974.0	2951.6	2930.9	2910.2	2889.4	2868.6	2852.7	2838.3
25°	2972.4	2946.8	2929.3	2908.5	2887.8	2871.9	2846.3	2833.6	2812.8	2798.4	2784.0
27.5°	2876.6	2857.5	2841.5	2820.7	2803.2	2790.5	2771.3	2758.5	2740.9	2728.2	2717.0
30°	2736.2	2720.2	2705.8	2685.1	2672.3	2661.1	2643.5	2632.4	2619.6	2605.2	2602.1
32.5°	2547.8	2535.0	2520.7	2506.3	2496.7	2490.3	2475.9	2469.5	2456.8	2448.8	2440.8
35°	2263.6	2252.4	2244.5	2238.1	2234.9	2236.5	2233.3	2239.7	2242.9	2241.3	2242.9
37.5°	1891.7	1885.3	1888.5	1893.3	1909.3	1930.0	1949.1	1977.9	1997.0	2016.2	2033.8
40°	1476.6	1481.4	1494.2	1522.9	1564.4	1610.7	1653.9	1708.1	1762.4	1800.7	1835.8
42.5°	1114.3	1128.7	1160.5	1202.0	1264.3	1332.9	1400.0	1479.8	1545.3	1609.1	1653.9
45°	838.1	857.2	898.7	956.2	1024.8	1104.7	1189.3	1278.7	1356.9	1422.4	1471.8
47.5°	652.9	670.5	712.0	772.7	857.2	940.3	1028.1	1120.6	1202.0	1265.9	1309.0
50°	515.6	537.9	574.7	638.5	723.2	811.0	902.0	992.9	1069.6	1123.9	1162.2
52.5°	405.5	426.2	461.3	528.4	614.6	702.4	787.0	876.4	943.4	996.1	1021.7
55°	314.5	333.7	370.3	426.2	507.7	593.9	678.4	755.1	817.3	855.6	879.6
57.5°	239.4	253.8	279.4	335.2	408.7	488.5	560.4	637.0	684.9	712.0	727.9
60°	182.0	193.2	220.3	263.4	330.4	399.1	459.8	517.2	555.6	577.9	593.9
62.5°	137.3	150.1	169.2	205.9	257.0	312.9	364.0	407.1	439.0	453.4	464.6
65°	94.2	103.8	118.1	146.9	190.0	229.8	269.8	301.7	322.5	338.5	344.8
67.5°	70.2	76.6	84.6	107.0	137.3	169.2	196.3	218.7	241.1	247.5	258.6
70°	52.7	57.5	65.4	81.4	99.0	121.3	143.7	156.4	172.4	183.6	186.8
72.5°	33.5	35.1	43.1	52.7	67.0	81.4	95.8	107.0	116.6	122.9	126.1
75°	19.2	28.7	28.7	38.3	47.9	54.3	63.9	71.8	76.6	81.4	81.4
77.5°	12.7	17.5	19.2	23.9	28.7	36.7	44.7	49.5	54.3	55.9	55.9
80°	11.2	12.7	12.7	17.5	20.8	27.1	31.9	33.5	36.7	38.3	41.5
82.5°	4.8	6.4	8.0	12.7	14.4	14.4	19.2	20.8	23.9	25.6	25.6
85°	1.6	3.2	3.2	4.8	8.0	9.6	11.2	12.7	14.4	14.4	16.0
87.5°	1.6	1.6	0.0	1.6	3.2	3.2	6.4	6.4	6.4	9.6	9.6
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: P248722

CATALOG NUMBER: LD8B60D010 ER8B60940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3	3269.3
2.5°	3240.6	3242.2	3235.8	3234.2	3231.0	3232.6	3235.8
5°	3181.5	3183.1	3176.7	3170.4	3170.4	3168.7	3170.4
7.5°	3125.6	3127.3	3117.7	3114.5	3108.1	3109.7	3109.7
10°	3069.8	3069.8	3055.5	3053.8	3049.0	3047.4	3047.4
12.5°	3015.5	3010.7	2999.5	2993.2	2996.4	2986.8	2986.8
15°	2967.6	2959.7	2945.3	2940.5	2932.5	2929.3	2929.3
17.5°	2918.1	2911.8	2899.0	2889.4	2879.8	2878.2	2879.8
20°	2870.2	2863.9	2847.9	2841.5	2833.6	2833.6	2830.3
22.5°	2822.3	2816.0	2801.6	2796.8	2785.7	2785.7	2787.2
25°	2772.8	2768.1	2752.1	2748.9	2747.4	2740.9	2744.1
27.5°	2705.8	2702.6	2689.9	2685.1	2678.7	2677.1	2680.3
30°	2582.9	2578.1	2568.6	2563.8	2552.6	2554.2	2557.3
32.5°	2429.7	2423.3	2410.5	2405.7	2396.1	2392.9	2394.5
35°	2238.1	2233.3	2222.2	2222.2	2212.6	2209.3	2212.6
37.5°	2043.4	2048.1	2043.4	2048.1	2043.4	2041.7	2043.4
40°	1859.8	1877.3	1880.5	1898.1	1891.7	1901.2	1899.7
42.5°	1684.1	1712.9	1724.1	1738.4	1735.3	1741.6	1746.4
45°	1506.9	1530.9	1542.1	1551.7	1553.3	1556.5	1558.1
47.5°	1339.3	1358.5	1360.1	1371.2	1369.7	1369.7	1374.5
50°	1182.9	1195.7	1198.8	1206.8	1200.5	1197.3	1198.8
52.5°	1037.6	1050.4	1047.2	1050.4	1042.4	1039.2	1040.8
55°	889.2	895.5	895.5	895.5	886.0	886.0	886.0
57.5°	737.5	739.1	735.9	737.5	735.9	726.3	724.8
60°	598.7	598.7	597.0	598.7	593.9	589.1	589.1
62.5°	467.7	470.9	477.3	470.9	467.7	470.9	466.1
65°	349.6	356.0	354.4	357.6	356.0	356.0	352.8
67.5°	263.4	265.0	266.6	268.2	268.2	268.2	268.2
70°	193.2	198.0	196.3	196.3	196.3	196.3	205.9
72.5°	129.3	135.7	134.1	137.3	137.3	140.5	137.3
75°	87.8	94.2	91.0	95.8	94.2	91.0	99.0
77.5°	59.1	62.3	63.9	65.4	63.9	62.3	63.9
80°	41.5	44.7	43.1	44.7	44.7	44.7	46.3
82.5°	25.6	30.4	28.7	30.4	28.7	30.4	30.4
85°	17.5	19.2	16.0	19.2	17.5	17.5	20.8
87.5°	11.2	9.6	9.6	11.2	9.6	11.2	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)