

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: P244966

Luminaire Tested: **LD8B40D010 ER8B40835 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244966  
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: LD8B40D010 ER8B40835 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4362.0 lumens  
Efficiency: N/A  
Efficacy: 106.6 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

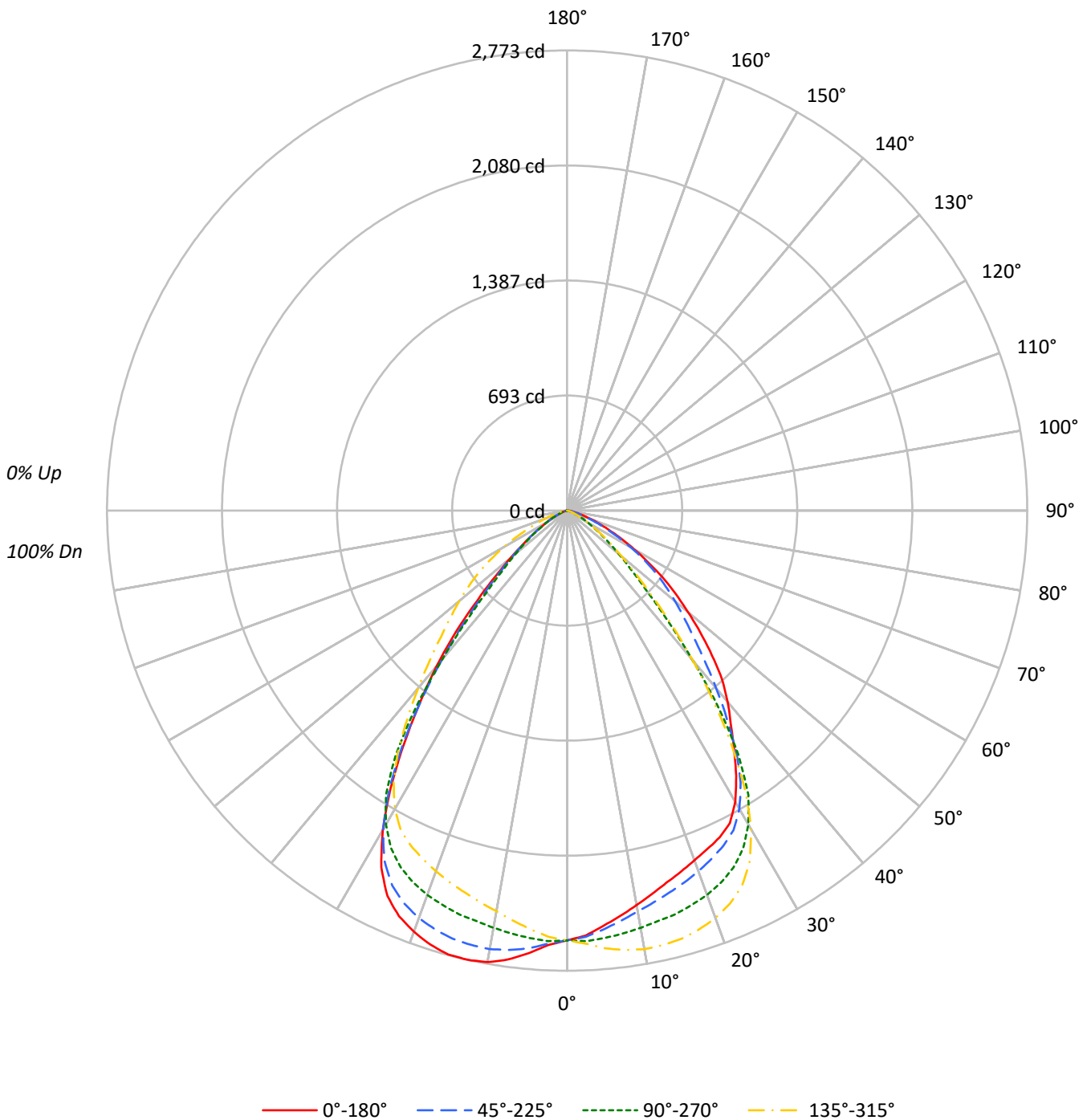
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	79854	79854	79854	79854
5°	77732	80041	82898	80041
10°	75581	79936	86509	79936
15°	74070	80410	88401	80410
20°	73569	80870	88631	80870
25°	73955	80709	87204	80709
30°	72125	77754	79150	77754
35°	65971	67827	64353	67827
40°	60570	47182	49271	47182
45°	53818	28782	33304	28782
50°	45555	19227	21353	19227
55°	37730	13118	13865	13118
60°	28776	8733	8813	8733
65°	20386	5443	4984	5443
70°	14705	3642	3309	3642
75°	9341	1811	1501	1811
80°	6517	1350	1119	1350
85°	5802	0	425	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.5	5.7
10°-20°	713.8	16.4
20°-30°	1080.8	24.8
30°-40°	1083.2	24.8
40°-50°	680.2	15.6
50°-60°	362.5	8.3
60°-70°	149.1	3.4
70°-80°	39.4	0.9
80°-90°	6.7	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°	2041.0	46.8
0°-40°	3124.2	71.6
0°-60°	4166.9	95.5
0°-90°	4362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4362.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2590	2590	2590	2590	2590	
5°	2511	2586	2678	2586	2511	237
15°	2320	2519	2769	2519	2320	656
25°	2174	2372	2563	2372	2174	997
35°	1752	1802	1710	1802	1752	1098
45°	1234	660	764	660	1234	949
55°	702	244	258	244	702	626
65°	279	75	68	75	279	290
75°	78	15	13	15	78	89
85°	16	0	1	0	16	18
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°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2563.0	2560.5	2559.2	2561.8	2563.0	2568.1	2566.8	2569.3	2569.3	2570.6	2573.1
5°	2511.2	2509.9	2511.2	2511.2	2516.2	2521.3	2520.0	2523.8	2526.3	2532.7	2535.2
7.5°	2463.2	2463.2	2461.9	2466.9	2469.5	2477.1	2475.8	2482.1	2485.9	2492.2	2501.1
10°	2413.8	2413.8	2415.1	2418.9	2420.2	2431.5	2431.5	2440.4	2445.4	2451.8	2463.2
12.5°	2365.8	2365.8	2373.4	2370.8	2375.9	2384.7	2388.5	2397.4	2405.0	2417.6	2429.0
15°	2320.2	2320.2	2322.8	2329.1	2332.9	2344.3	2350.6	2360.7	2369.6	2382.2	2398.7
17.5°	2281.1	2279.8	2281.1	2288.7	2296.3	2306.3	2311.4	2324.0	2332.9	2349.3	2364.5
20°	2241.9	2244.4	2244.4	2250.7	2255.8	2268.4	2273.5	2287.4	2297.5	2312.6	2330.4
22.5°	2207.7	2206.5	2206.5	2215.3	2219.1	2230.5	2235.5	2248.2	2259.6	2272.2	2288.7
25°	2173.6	2171.0	2176.1	2177.4	2179.9	2192.5	2196.3	2205.2	2216.6	2228.0	2244.4
27.5°	2123.0	2120.5	2121.7	2126.8	2130.6	2140.7	2143.2	2152.1	2160.9	2171.0	2185.0
30°	2025.6	2023.1	2021.9	2030.7	2034.5	2042.1	2045.9	2061.1	2063.6	2075.0	2085.1
32.5°	1896.6	1895.4	1897.9	1905.5	1909.3	1919.4	1924.5	1933.3	1939.6	1946.0	1956.1
35°	1752.5	1750.0	1752.5	1760.1	1760.1	1769.0	1772.8	1776.5	1775.3	1776.5	1774.0
37.5°	1618.5	1617.2	1618.5	1622.3	1618.5	1622.3	1618.5	1610.9	1597.0	1581.8	1566.6
40°	1504.7	1505.9	1498.4	1503.4	1489.5	1487.0	1473.1	1454.1	1426.3	1396.0	1353.0
42.5°	1383.3	1379.5	1374.5	1377.0	1365.6	1356.7	1334.0	1310.0	1274.5	1224.0	1172.1
45°	1234.1	1232.9	1230.3	1229.1	1221.5	1212.6	1193.6	1165.8	1126.6	1074.8	1012.8
47.5°	1088.7	1084.9	1084.9	1086.1	1077.3	1076.0	1060.8	1036.9	1002.7	952.1	887.6
50°	949.6	948.3	950.9	955.9	949.6	947.1	937.0	920.5	890.2	847.2	786.5
52.5°	824.4	823.2	825.7	832.0	829.5	832.0	821.9	809.3	789.0	747.3	694.2
55°	701.8	701.8	701.8	709.3	709.3	709.3	704.3	696.7	677.7	647.4	598.1
57.5°	574.1	575.3	582.9	584.2	582.9	585.5	584.2	576.6	564.0	542.5	504.5
60°	466.6	466.6	470.4	474.2	472.9	474.2	474.2	470.4	457.7	440.0	409.7
62.5°	369.2	373.0	370.5	373.0	378.1	373.0	370.5	368.0	359.1	347.7	322.4
65°	279.4	282.0	282.0	283.2	280.7	282.0	276.9	273.1	268.1	255.4	239.0
67.5°	212.5	212.5	212.5	212.5	211.1	209.9	208.7	204.9	196.0	191.0	173.2
70°	163.1	155.5	155.5	155.5	155.5	156.8	153.0	148.0	145.4	136.6	123.9
72.5°	108.7	111.3	108.7	108.7	106.2	107.5	102.4	99.9	97.4	92.3	84.7
75°	78.4	72.1	74.6	75.9	72.1	74.6	69.5	64.5	64.5	60.7	56.9
77.5°	50.6	49.3	50.6	51.8	50.6	49.3	46.8	44.2	44.2	43.0	39.2
80°	36.7	35.4	35.4	35.4	34.1	35.4	32.9	32.9	30.3	29.1	26.5
82.5°	24.0	24.0	22.7	24.0	22.7	24.0	20.2	20.2	20.2	18.9	16.4
85°	16.4	13.9	13.9	15.2	12.6	15.2	13.9	12.6	11.4	11.4	10.1
87.5°	7.6	8.8	7.6	8.8	7.6	7.6	8.8	7.6	7.6	5.0	5.0
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°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2576.9	2578.2	2578.2	2583.3	2585.8	2587.0	2587.0	2597.2	2593.4	2595.9	2598.4
5°	2540.3	2547.8	2550.4	2550.4	2564.3	2569.3	2574.4	2585.8	2587.0	2594.6	2603.5
7.5°	2504.9	2513.7	2518.8	2530.1	2539.0	2547.8	2563.0	2570.6	2578.2	2588.3	2599.7
10°	2470.7	2480.9	2491.0	2499.8	2513.7	2525.1	2535.2	2552.9	2561.8	2575.7	2590.8
12.5°	2437.9	2451.8	2460.6	2475.8	2491.0	2501.1	2516.2	2532.7	2546.6	2560.5	2578.2
15°	2408.8	2425.2	2435.3	2451.8	2468.2	2482.1	2498.6	2518.8	2528.9	2545.3	2561.8
17.5°	2377.1	2394.9	2407.5	2422.7	2442.9	2458.1	2472.0	2492.2	2504.9	2522.5	2541.5
20°	2344.3	2362.0	2377.1	2392.3	2412.6	2427.7	2444.2	2464.4	2478.3	2496.0	2511.2
22.5°	2305.1	2321.5	2337.9	2355.6	2375.9	2388.5	2407.5	2425.2	2440.4	2456.8	2472.0
25°	2254.5	2274.8	2287.4	2303.8	2320.2	2334.1	2354.4	2372.1	2384.7	2399.9	2413.8
27.5°	2195.1	2210.3	2220.4	2234.3	2250.7	2263.4	2278.5	2296.3	2308.9	2322.8	2332.9
30°	2093.9	2107.8	2116.7	2126.8	2143.2	2154.6	2167.3	2183.7	2192.5	2202.7	2211.5
32.5°	1961.1	1972.5	1977.6	1985.2	1996.6	2007.9	2018.1	2032.0	2035.8	2042.1	2042.1
35°	1769.0	1771.5	1770.2	1772.8	1777.8	1784.1	1793.0	1801.8	1806.9	1806.9	1803.1
37.5°	1543.9	1528.7	1512.3	1499.6	1495.8	1493.3	1498.4	1502.1	1507.2	1509.7	1503.4
40°	1310.0	1275.8	1239.2	1206.3	1183.5	1173.4	1169.6	1172.1	1172.1	1181.0	1181.0
42.5°	1108.9	1055.8	1001.5	952.1	919.2	894.0	882.6	882.6	883.8	890.2	894.0
45°	942.0	875.0	811.8	757.4	711.9	679.0	663.8	660.0	658.8	661.3	670.1
47.5°	814.3	744.8	679.0	612.0	564.0	531.1	517.2	512.1	507.0	512.1	513.4
50°	714.4	642.3	572.8	505.8	455.2	426.1	408.4	400.8	399.6	399.6	402.1
52.5°	623.4	556.4	486.8	418.6	365.4	337.6	321.2	317.4	312.3	317.4	317.4
55°	537.4	470.4	402.1	337.6	293.3	264.3	249.1	244.0	241.5	245.3	245.3
57.5°	443.8	386.9	323.7	265.5	221.3	201.1	189.7	183.4	182.1	184.6	182.1
60°	364.2	316.1	261.7	208.7	174.5	153.0	144.2	141.6	139.1	141.6	141.6
62.5°	288.3	247.8	203.6	163.1	134.0	118.9	108.7	108.7	107.5	107.5	108.7
65°	213.7	182.1	150.5	116.3	93.6	82.2	74.6	74.6	73.3	74.6	73.3
67.5°	155.5	134.0	108.7	84.7	67.0	60.7	55.6	51.8	54.4	51.8	50.6
70°	113.8	96.1	78.4	64.5	51.8	45.5	41.7	40.4	37.9	37.9	37.9
72.5°	75.9	64.5	53.1	41.7	34.1	27.8	26.5	24.0	21.5	22.7	25.3
75°	50.6	43.0	37.9	30.3	22.7	22.7	15.2	15.2	12.6	15.2	11.4
77.5°	35.4	29.1	22.7	18.9	15.2	13.9	10.1	10.1	8.8	8.8	8.8
80°	25.3	21.5	16.4	13.9	10.1	10.1	8.8	7.6	6.3	6.3	7.6
82.5°	15.2	11.4	11.4	10.1	6.3	5.0	3.8	5.0	2.6	2.6	2.6
85°	8.8	7.6	6.3	3.8	2.6	2.6	1.2	0.0	1.2	1.2	0.0
87.5°	5.0	2.6	2.6	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.6
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2604.8	2603.5	2606.0	2606.0	2613.6	2612.3	2616.1	2616.1	2613.6	2614.9	2619.9
5°	2613.6	2617.4	2625.0	2631.3	2642.7	2647.8	2654.1	2660.4	2661.7	2665.5	2669.3
7.5°	2613.6	2626.3	2635.1	2646.5	2661.7	2670.5	2684.4	2695.8	2700.9	2707.2	2714.8
10°	2608.5	2621.2	2637.6	2650.3	2669.3	2683.2	2697.1	2714.8	2722.3	2732.4	2742.6
12.5°	2598.4	2612.3	2630.0	2646.5	2668.0	2680.6	2698.3	2714.8	2726.1	2740.0	2751.4
15°	2583.3	2599.7	2616.1	2632.6	2655.3	2670.5	2687.0	2705.9	2717.3	2732.4	2742.6
17.5°	2559.2	2576.9	2592.1	2607.3	2628.8	2646.5	2661.7	2679.4	2690.8	2703.4	2717.3
20°	2530.1	2546.6	2563.0	2575.7	2597.2	2612.3	2628.8	2645.2	2654.1	2656.6	2678.1
22.5°	2493.5	2504.9	2517.5	2537.7	2550.4	2564.3	2579.5	2594.6	2603.5	2617.4	2625.0
25°	2432.8	2444.2	2458.1	2466.9	2482.1	2493.5	2508.7	2525.1	2530.1	2540.3	2547.8
27.5°	2348.1	2354.4	2360.7	2368.3	2377.1	2383.5	2392.3	2399.9	2405.0	2410.0	2415.1
30°	2214.0	2214.0	2214.0	2209.0	2212.8	2216.6	2217.8	2216.6	2216.6	2215.3	2215.3
32.5°	2037.0	2026.9	2015.5	2005.4	2001.6	1996.6	1994.0	1990.2	1983.9	1980.1	1981.4
35°	1798.0	1775.3	1761.4	1748.7	1738.6	1731.0	1727.2	1723.4	1722.2	1717.1	1712.0
37.5°	1499.6	1483.2	1473.1	1465.5	1456.7	1449.1	1450.3	1451.6	1455.4	1452.9	1454.1
40°	1183.5	1179.7	1183.5	1174.7	1172.1	1174.7	1181.0	1189.9	1194.9	1200.0	1208.8
42.5°	900.3	906.6	915.5	915.5	919.2	924.3	931.9	945.8	953.4	962.2	972.4
45°	677.7	685.3	696.7	700.5	703.0	709.3	718.2	729.6	734.6	742.2	751.1
47.5°	522.2	527.3	533.6	539.9	546.2	548.8	557.6	557.6	564.0	569.0	571.5
50°	407.2	412.2	417.2	421.0	423.6	427.4	429.9	433.7	434.9	437.5	438.7
52.5°	318.6	325.0	325.0	327.5	331.3	335.1	333.8	335.1	336.3	336.3	340.1
55°	249.1	249.1	252.9	252.9	255.4	254.1	255.4	255.4	255.4	255.4	256.7
57.5°	185.9	187.2	191.0	188.4	187.2	189.7	187.2	189.7	188.4	191.0	187.2
60°	142.9	142.9	144.2	144.2	145.4	145.4	145.4	144.2	144.2	142.9	142.9
62.5°	107.5	108.7	110.0	108.7	108.7	108.7	107.5	107.5	106.2	104.9	104.9
65°	72.1	70.8	73.3	70.8	72.1	72.1	70.8	72.1	68.3	69.5	68.3
67.5°	51.8	50.6	49.3	50.6	49.3	48.0	48.0	49.3	50.6	46.8	46.8
70°	34.1	35.4	34.1	35.4	36.7	36.7	35.4	34.1	35.4	32.9	34.1
72.5°	21.5	21.5	21.5	21.5	21.5	22.7	22.7	22.7	20.2	20.2	18.9
75°	10.1	13.9	11.4	10.1	13.9	13.9	12.6	12.6	11.4	11.4	11.4
77.5°	10.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	7.6	6.3
80°	5.0	5.0	5.0	3.8	5.0	5.0	6.3	5.0	5.0	3.8	6.3
82.5°	2.6	2.6	2.6	0.0	1.2	2.6	2.6	1.2	2.6	2.6	1.2
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: P244966

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2618.7	2617.4	2618.7	2619.9	2618.7	2617.4	2618.7	2619.9	2614.9	2613.6	2616.1
5°	2674.3	2674.3	2676.8	2678.1	2676.8	2674.3	2674.3	2669.3	2665.5	2661.7	2660.4
7.5°	2722.3	2724.9	2727.4	2728.6	2727.4	2724.9	2722.3	2714.8	2707.2	2700.9	2695.8
10°	2751.4	2755.2	2760.3	2762.8	2760.3	2755.2	2751.4	2742.6	2732.4	2722.3	2714.8
12.5°	2764.1	2767.9	2774.2	2772.9	2774.2	2767.9	2764.1	2751.4	2740.0	2726.1	2714.8
15°	2755.2	2760.3	2766.6	2769.1	2766.6	2760.3	2755.2	2742.6	2732.4	2717.3	2705.9
17.5°	2727.4	2735.0	2738.8	2742.6	2738.8	2735.0	2727.4	2717.3	2703.4	2690.8	2679.4
20°	2689.5	2694.6	2699.6	2700.9	2699.6	2694.6	2689.5	2678.1	2656.6	2654.1	2645.2
22.5°	2635.1	2638.9	2650.3	2646.5	2650.3	2638.9	2635.1	2625.0	2617.4	2603.5	2594.6
25°	2556.7	2560.5	2561.8	2563.0	2561.8	2560.5	2556.7	2547.8	2540.3	2530.1	2525.1
27.5°	2421.4	2421.4	2423.9	2425.2	2423.9	2421.4	2421.4	2415.1	2410.0	2405.0	2399.9
30°	2216.6	2216.6	2216.6	2222.9	2216.6	2216.6	2216.6	2215.3	2215.3	2216.6	2216.6
32.5°	1980.1	1977.6	1975.1	1977.6	1975.1	1977.6	1980.1	1981.4	1980.1	1983.9	1990.2
35°	1712.0	1710.8	1714.6	1709.5	1714.6	1710.8	1712.0	1712.0	1717.1	1722.2	1723.4
37.5°	1455.4	1452.9	1457.9	1452.9	1457.9	1452.9	1455.4	1454.1	1452.9	1455.4	1451.6
40°	1211.4	1213.9	1213.9	1224.0	1213.9	1213.9	1211.4	1208.8	1200.0	1194.9	1189.9
42.5°	977.4	985.0	982.5	990.1	982.5	985.0	977.4	972.4	962.2	953.4	945.8
45°	756.1	761.2	761.2	763.7	761.2	761.2	756.1	751.1	742.2	734.6	729.6
47.5°	580.4	580.4	580.4	581.7	580.4	580.4	580.4	571.5	569.0	564.0	557.6
50°	441.3	442.5	443.8	445.1	443.8	442.5	441.3	438.7	437.5	434.9	433.7
52.5°	338.9	340.1	337.6	340.1	337.6	340.1	338.9	340.1	336.3	336.3	335.1
55°	256.7	255.4	256.7	257.9	256.7	255.4	256.7	256.7	255.4	255.4	255.4
57.5°	188.4	185.9	185.9	185.9	185.9	185.9	188.4	187.2	191.0	188.4	189.7
60°	140.4	141.6	141.6	142.9	141.6	141.6	140.4	142.9	142.9	144.2	144.2
62.5°	103.7	107.5	104.9	107.5	104.9	107.5	103.7	104.9	104.9	106.2	107.5
65°	67.0	67.0	67.0	68.3	67.0	67.0	67.0	68.3	69.5	68.3	72.1
67.5°	45.5	46.8	49.3	48.0	49.3	46.8	45.5	46.8	46.8	50.6	49.3
70°	36.7	32.9	32.9	36.7	32.9	32.9	36.7	34.1	32.9	35.4	34.1
72.5°	21.5	18.9	21.5	21.5	21.5	18.9	21.5	18.9	20.2	20.2	22.7
75°	11.4	10.1	8.8	12.6	8.8	10.1	11.4	11.4	11.4	11.4	12.6
77.5°	7.6	6.3	8.8	8.8	8.8	6.3	7.6	6.3	7.6	6.3	7.6
80°	3.8	5.0	3.8	6.3	3.8	5.0	3.8	6.3	3.8	5.0	5.0
82.5°	1.2	2.6	2.6	2.6	2.6	2.6	1.2	1.2	2.6	2.6	1.2
85°	0.0	2.6	1.2	1.2	1.2	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	1.2	0.0	0.0	1.2	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: P244966

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2616.1	2612.3	2613.6	2606.0	2606.0	2603.5	2604.8	2598.4	2595.9	2593.4	2597.2
5°	2654.1	2647.8	2642.7	2631.3	2625.0	2617.4	2613.6	2603.5	2594.6	2587.0	2585.8
7.5°	2684.4	2670.5	2661.7	2646.5	2635.1	2626.3	2613.6	2599.7	2588.3	2578.2	2570.6
10°	2697.1	2683.2	2669.3	2650.3	2637.6	2621.2	2608.5	2590.8	2575.7	2561.8	2552.9
12.5°	2698.3	2680.6	2668.0	2646.5	2630.0	2612.3	2598.4	2578.2	2560.5	2546.6	2532.7
15°	2687.0	2670.5	2655.3	2632.6	2616.1	2599.7	2583.3	2561.8	2545.3	2528.9	2518.8
17.5°	2661.7	2646.5	2628.8	2607.3	2592.1	2576.9	2559.2	2541.5	2522.5	2504.9	2492.2
20°	2628.8	2612.3	2597.2	2575.7	2563.0	2546.6	2530.1	2511.2	2496.0	2478.3	2464.4
22.5°	2579.5	2564.3	2550.4	2537.7	2517.5	2504.9	2493.5	2472.0	2456.8	2440.4	2425.2
25°	2508.7	2493.5	2482.1	2466.9	2458.1	2444.2	2432.8	2413.8	2399.9	2384.7	2372.1
27.5°	2392.3	2383.5	2377.1	2368.3	2360.7	2354.4	2348.1	2332.9	2322.8	2308.9	2296.3
30°	2217.8	2216.6	2212.8	2209.0	2214.0	2214.0	2214.0	2211.5	2202.7	2192.5	2183.7
32.5°	1994.0	1996.6	2001.6	2005.4	2015.5	2026.9	2037.0	2042.1	2042.1	2035.8	2032.0
35°	1727.2	1731.0	1738.6	1748.7	1761.4	1775.3	1798.0	1803.1	1806.9	1806.9	1801.8
37.5°	1450.3	1449.1	1456.7	1465.5	1473.1	1483.2	1499.6	1503.4	1509.7	1507.2	1502.1
40°	1181.0	1174.7	1172.1	1174.7	1183.5	1179.7	1183.5	1181.0	1181.0	1172.1	1172.1
42.5°	931.9	924.3	919.2	915.5	915.5	906.6	900.3	894.0	890.2	883.8	882.6
45°	718.2	709.3	703.0	700.5	696.7	685.3	677.7	670.1	661.3	658.8	660.0
47.5°	557.6	548.8	546.2	539.9	533.6	527.3	522.2	513.4	512.1	507.0	512.1
50°	429.9	427.4	423.6	421.0	417.2	412.2	407.2	402.1	399.6	399.6	400.8
52.5°	333.8	335.1	331.3	327.5	325.0	325.0	318.6	317.4	317.4	312.3	317.4
55°	255.4	254.1	255.4	252.9	252.9	249.1	249.1	245.3	245.3	241.5	244.0
57.5°	187.2	189.7	187.2	188.4	191.0	187.2	185.9	182.1	184.6	182.1	183.4
60°	145.4	145.4	145.4	144.2	144.2	142.9	142.9	141.6	141.6	139.1	141.6
62.5°	107.5	108.7	108.7	108.7	110.0	108.7	107.5	108.7	107.5	107.5	108.7
65°	70.8	72.1	72.1	70.8	73.3	70.8	72.1	73.3	74.6	73.3	74.6
67.5°	48.0	48.0	49.3	50.6	49.3	50.6	51.8	50.6	51.8	54.4	51.8
70°	35.4	36.7	36.7	35.4	34.1	35.4	34.1	37.9	37.9	37.9	40.4
72.5°	22.7	22.7	21.5	21.5	21.5	21.5	21.5	25.3	22.7	21.5	24.0
75°	12.6	13.9	13.9	10.1	11.4	13.9	10.1	11.4	15.2	12.6	15.2
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	10.1	8.8	8.8	8.8	10.1
80°	6.3	5.0	5.0	3.8	5.0	5.0	5.0	7.6	6.3	6.3	7.6
82.5°	2.6	2.6	1.2	0.0	2.6	2.6	2.6	2.6	2.6	2.6	5.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	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: P244966

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2587.0	2587.0	2585.8	2583.3	2578.2	2578.2	2576.9	2573.1	2570.6	2569.3	2569.3
5°	2574.4	2569.3	2564.3	2550.4	2550.4	2547.8	2540.3	2535.2	2532.7	2526.3	2523.8
7.5°	2563.0	2547.8	2539.0	2530.1	2518.8	2513.7	2504.9	2501.1	2492.2	2485.9	2482.1
10°	2535.2	2525.1	2513.7	2499.8	2491.0	2480.9	2470.7	2463.2	2451.8	2445.4	2440.4
12.5°	2516.2	2501.1	2491.0	2475.8	2460.6	2451.8	2437.9	2429.0	2417.6	2405.0	2397.4
15°	2498.6	2482.1	2468.2	2451.8	2435.3	2425.2	2408.8	2398.7	2382.2	2369.6	2360.7
17.5°	2472.0	2458.1	2442.9	2422.7	2407.5	2394.9	2377.1	2364.5	2349.3	2332.9	2324.0
20°	2444.2	2427.7	2412.6	2392.3	2377.1	2362.0	2344.3	2330.4	2312.6	2297.5	2287.4
22.5°	2407.5	2388.5	2375.9	2355.6	2337.9	2321.5	2305.1	2288.7	2272.2	2259.6	2248.2
25°	2354.4	2334.1	2320.2	2303.8	2287.4	2274.8	2254.5	2244.4	2228.0	2216.6	2205.2
27.5°	2278.5	2263.4	2250.7	2234.3	2220.4	2210.3	2195.1	2185.0	2171.0	2160.9	2152.1
30°	2167.3	2154.6	2143.2	2126.8	2116.7	2107.8	2093.9	2085.1	2075.0	2063.6	2061.1
32.5°	2018.1	2007.9	1996.6	1985.2	1977.6	1972.5	1961.1	1956.1	1946.0	1939.6	1933.3
35°	1793.0	1784.1	1777.8	1772.8	1770.2	1771.5	1769.0	1774.0	1776.5	1775.3	1776.5
37.5°	1498.4	1493.3	1495.8	1499.6	1512.3	1528.7	1543.9	1566.6	1581.8	1597.0	1610.9
40°	1169.6	1173.4	1183.5	1206.3	1239.2	1275.8	1310.0	1353.0	1396.0	1426.3	1454.1
42.5°	882.6	894.0	919.2	952.1	1001.5	1055.8	1108.9	1172.1	1224.0	1274.5	1310.0
45°	663.8	679.0	711.9	757.4	811.8	875.0	942.0	1012.8	1074.8	1126.6	1165.8
47.5°	517.2	531.1	564.0	612.0	679.0	744.8	814.3	887.6	952.1	1002.7	1036.9
50°	408.4	426.1	455.2	505.8	572.8	642.3	714.4	786.5	847.2	890.2	920.5
52.5°	321.2	337.6	365.4	418.6	486.8	556.4	623.4	694.2	747.3	789.0	809.3
55°	249.1	264.3	293.3	337.6	402.1	470.4	537.4	598.1	647.4	677.7	696.7
57.5°	189.7	201.1	221.3	265.5	323.7	386.9	443.8	504.5	542.5	564.0	576.6
60°	144.2	153.0	174.5	208.7	261.7	316.1	364.2	409.7	440.0	457.7	470.4
62.5°	108.7	118.9	134.0	163.1	203.6	247.8	288.3	322.4	347.7	359.1	368.0
65°	74.6	82.2	93.6	116.3	150.5	182.1	213.7	239.0	255.4	268.1	273.1
67.5°	55.6	60.7	67.0	84.7	108.7	134.0	155.5	173.2	191.0	196.0	204.9
70°	41.7	45.5	51.8	64.5	78.4	96.1	113.8	123.9	136.6	145.4	148.0
72.5°	26.5	27.8	34.1	41.7	53.1	64.5	75.9	84.7	92.3	97.4	99.9
75°	15.2	22.7	22.7	30.3	37.9	43.0	50.6	56.9	60.7	64.5	64.5
77.5°	10.1	13.9	15.2	18.9	22.7	29.1	35.4	39.2	43.0	44.2	44.2
80°	8.8	10.1	10.1	13.9	16.4	21.5	25.3	26.5	29.1	30.3	32.9
82.5°	3.8	5.0	6.3	10.1	11.4	11.4	15.2	16.4	18.9	20.2	20.2
85°	1.2	2.6	2.6	3.8	6.3	7.6	8.8	10.1	11.4	11.4	12.6
87.5°	1.2	1.2	0.0	1.2	2.6	2.6	5.0	5.0	5.0	7.6	7.6
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: P244966

CATALOG NUMBER: LD8B40D010 ER8B40835 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2566.8	2568.1	2563.0	2561.8	2559.2	2560.5	2563.0
5°	2520.0	2521.3	2516.2	2511.2	2511.2	2509.9	2511.2
7.5°	2475.8	2477.1	2469.5	2466.9	2461.9	2463.2	2463.2
10°	2431.5	2431.5	2420.2	2418.9	2415.1	2413.8	2413.8
12.5°	2388.5	2384.7	2375.9	2370.8	2373.4	2365.8	2365.8
15°	2350.6	2344.3	2332.9	2329.1	2322.8	2320.2	2320.2
17.5°	2311.4	2306.3	2296.3	2288.7	2281.1	2279.8	2281.1
20°	2273.5	2268.4	2255.8	2250.7	2244.4	2244.4	2241.9
22.5°	2235.5	2230.5	2219.1	2215.3	2206.5	2206.5	2207.7
25°	2196.3	2192.5	2179.9	2177.4	2176.1	2171.0	2173.6
27.5°	2143.2	2140.7	2130.6	2126.8	2121.7	2120.5	2123.0
30°	2045.9	2042.1	2034.5	2030.7	2021.9	2023.1	2025.6
32.5°	1924.5	1919.4	1909.3	1905.5	1897.9	1895.4	1896.6
35°	1772.8	1769.0	1760.1	1760.1	1752.5	1750.0	1752.5
37.5°	1618.5	1622.3	1618.5	1622.3	1618.5	1617.2	1618.5
40°	1473.1	1487.0	1489.5	1503.4	1498.4	1505.9	1504.7
42.5°	1334.0	1356.7	1365.6	1377.0	1374.5	1379.5	1383.3
45°	1193.6	1212.6	1221.5	1229.1	1230.3	1232.9	1234.1
47.5°	1060.8	1076.0	1077.3	1086.1	1084.9	1084.9	1088.7
50°	937.0	947.1	949.6	955.9	950.9	948.3	949.6
52.5°	821.9	832.0	829.5	832.0	825.7	823.2	824.4
55°	704.3	709.3	709.3	709.3	701.8	701.8	701.8
57.5°	584.2	585.5	582.9	584.2	582.9	575.3	574.1
60°	474.2	474.2	472.9	474.2	470.4	466.6	466.6
62.5°	370.5	373.0	378.1	373.0	370.5	373.0	369.2
65°	276.9	282.0	280.7	283.2	282.0	282.0	279.4
67.5°	208.7	209.9	211.1	212.5	212.5	212.5	212.5
70°	153.0	156.8	155.5	155.5	155.5	155.5	163.1
72.5°	102.4	107.5	106.2	108.7	108.7	111.3	108.7
75°	69.5	74.6	72.1	75.9	74.6	72.1	78.4
77.5°	46.8	49.3	50.6	51.8	50.6	49.3	50.6
80°	32.9	35.4	34.1	35.4	35.4	35.4	36.7
82.5°	20.2	24.0	22.7	24.0	22.7	24.0	24.0
85°	13.9	15.2	12.6	15.2	13.9	13.9	16.4
87.5°	8.8	7.6	7.6	8.8	7.6	8.8	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)