

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: P248740

Luminaire Tested: **LD8B60D010 ER8B609727 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248740
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 ER8B609727 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4305.0 lumens
Efficiency: N/A
Efficacy: 72.4 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

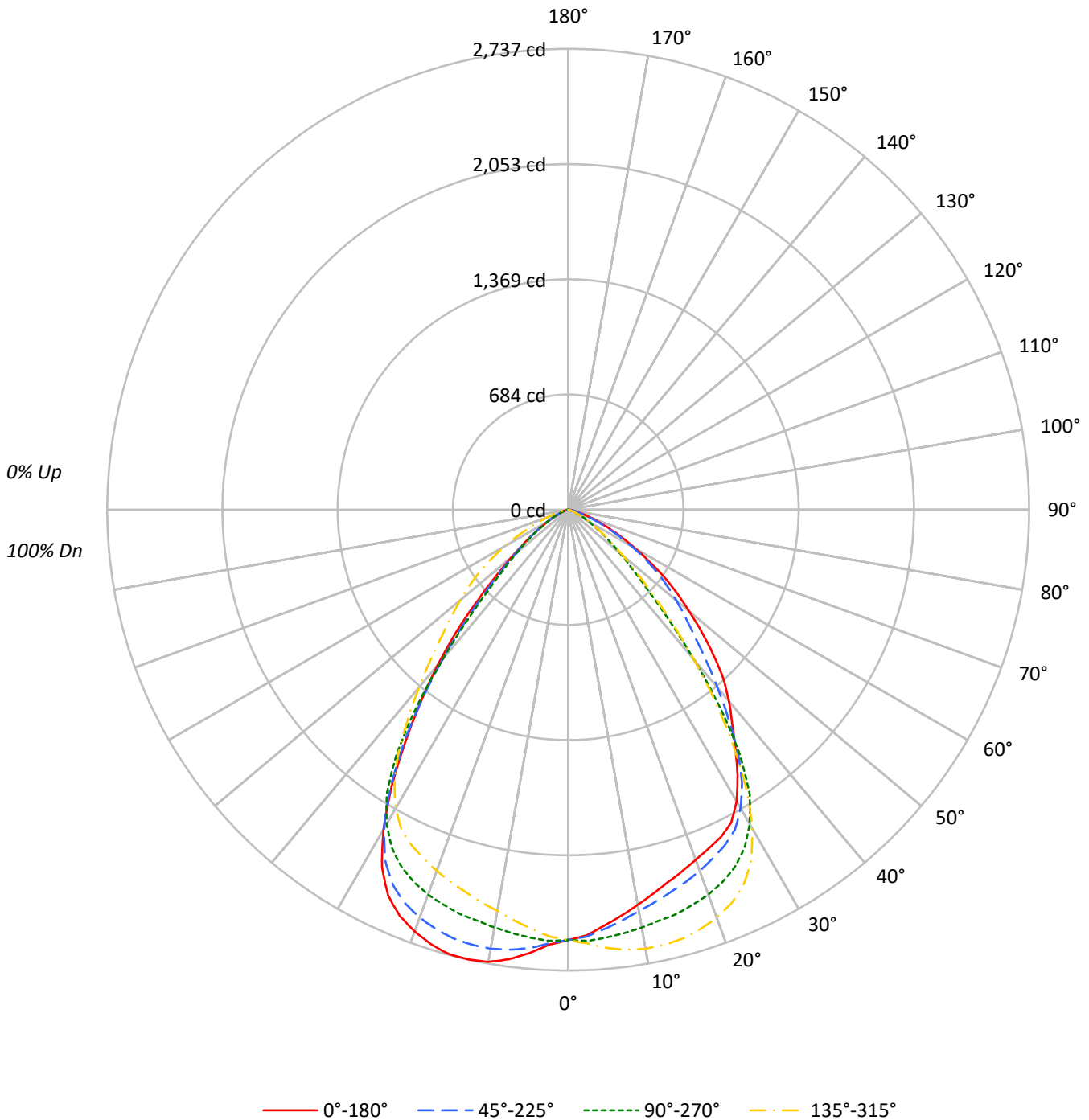
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	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°	243.3	5.7
10°-20°	704.4	16.4
20°-30°	1066.7	24.8
30°-40°	1069.1	24.8
40°-50°	671.3	15.6
50°-60°	357.7	8.3
60°-70°	147.1	3.4
70°-80°	38.9	0.9
80°-90°	6.6	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°	2014.3	46.8
0°-40°	3083.4	71.6
0°-60°	4112.4	95.5
0°-90°	4305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4305.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2556	2556	2556	2556	2556	
5°	2478	2552	2643	2552	2478	234
15°	2290	2486	2733	2486	2290	648
25°	2145	2341	2530	2341	2145	984
35°	1730	1778	1687	1778	1730	1084
45°	1218	651	754	651	1218	937
55°	693	241	255	241	693	618
65°	276	74	67	74	276	286
75°	77	15	12	15	77	88
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°	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7
2.5°	2529.5	2527.0	2525.8	2528.3	2529.5	2534.5	2533.3	2535.8	2535.8	2537.0	2539.5
5°	2478.4	2477.1	2478.4	2478.4	2483.4	2488.4	2487.1	2490.9	2493.3	2499.6	2502.1
7.5°	2431.0	2431.0	2429.7	2434.7	2437.2	2444.7	2443.4	2449.7	2453.4	2459.6	2468.4
10°	2382.3	2382.3	2383.5	2387.3	2388.5	2399.7	2399.7	2408.5	2413.5	2419.7	2431.0
12.5°	2334.9	2334.9	2342.4	2339.9	2344.8	2353.6	2357.3	2366.0	2373.5	2386.0	2397.3
15°	2289.9	2289.9	2292.4	2298.7	2302.4	2313.7	2319.9	2329.9	2338.6	2351.1	2367.3
17.5°	2251.2	2250.0	2251.2	2258.7	2266.2	2276.2	2281.2	2293.7	2302.4	2318.6	2333.6
20°	2212.6	2215.1	2215.1	2221.3	2226.3	2238.8	2243.7	2257.5	2267.5	2282.4	2299.9
22.5°	2178.9	2177.6	2177.6	2186.4	2190.1	2201.3	2206.3	2218.8	2230.0	2242.5	2258.7
25°	2145.2	2142.7	2147.7	2148.9	2151.4	2163.9	2167.6	2176.4	2187.6	2198.9	2215.1
27.5°	2095.3	2092.8	2094.0	2099.0	2102.7	2112.7	2115.2	2124.0	2132.7	2142.7	2156.4
30°	1999.1	1996.7	1995.4	2004.2	2007.9	2015.4	2019.1	2034.1	2036.6	2047.8	2057.8
32.5°	1871.9	1870.6	1873.1	1880.6	1884.3	1894.4	1899.3	1908.1	1914.3	1920.6	1930.5
35°	1729.6	1727.1	1729.6	1737.1	1737.1	1745.9	1749.6	1753.3	1752.1	1753.3	1750.8
37.5°	1597.4	1596.1	1597.4	1601.1	1597.4	1601.1	1597.4	1589.9	1576.2	1561.2	1546.2
40°	1485.0	1486.3	1478.8	1483.8	1470.0	1467.6	1453.8	1435.1	1407.7	1377.7	1335.3
42.5°	1365.2	1361.5	1356.5	1359.0	1347.8	1339.0	1316.5	1292.9	1257.9	1208.0	1156.8
45°	1218.0	1216.7	1214.2	1213.0	1205.5	1196.8	1178.0	1150.6	1111.9	1060.7	999.6
47.5°	1074.5	1070.7	1070.7	1071.9	1063.2	1062.0	1047.0	1023.3	989.6	939.7	876.0
50°	937.2	935.9	938.4	943.4	937.2	934.7	924.7	908.5	878.6	836.1	776.2
52.5°	813.6	812.4	814.9	821.1	818.6	821.1	811.2	798.7	778.7	737.5	685.1
55°	692.6	692.6	692.6	700.1	700.1	700.1	695.1	687.6	668.9	638.9	590.3
57.5°	566.6	567.8	575.3	576.5	575.3	577.8	576.5	569.0	556.6	535.4	497.9
60°	460.5	460.5	464.2	468.0	466.7	468.0	468.0	464.2	451.8	434.3	404.3
62.5°	364.4	368.1	365.6	368.1	373.1	368.1	365.6	363.2	354.4	343.2	318.2
65°	275.8	278.3	278.3	279.5	277.0	278.3	273.3	269.6	264.6	252.1	235.9
67.5°	209.7	209.7	209.7	209.7	208.4	207.2	205.9	202.2	193.4	188.5	170.9
70°	161.0	153.5	153.5	153.5	153.5	154.8	151.0	146.0	143.5	134.8	122.3
72.5°	107.3	109.8	107.3	107.3	104.8	106.1	101.1	98.6	96.1	91.1	83.6
75°	77.4	71.1	73.6	74.9	71.1	73.6	68.6	63.6	63.6	59.9	56.1
77.5°	49.9	48.7	49.9	51.2	49.9	48.7	46.2	43.7	43.7	42.4	38.7
80°	36.2	34.9	34.9	34.9	33.7	34.9	32.5	32.5	29.9	28.7	26.2
82.5°	23.7	23.7	22.4	23.7	22.4	23.7	20.0	20.0	20.0	18.7	16.2
85°	16.2	13.7	13.7	15.0	12.5	15.0	13.7	12.5	11.2	11.2	10.0
87.5°	7.5	8.7	7.5	8.7	7.5	7.5	8.7	7.5	7.5	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°	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7
2.5°	2543.3	2544.5	2544.5	2549.5	2552.0	2553.2	2553.2	2563.2	2559.5	2562.0	2564.5
5°	2507.1	2514.5	2517.1	2517.1	2530.8	2535.8	2540.7	2552.0	2553.2	2560.7	2569.5
7.5°	2472.1	2480.9	2485.9	2497.1	2505.8	2514.5	2529.5	2537.0	2544.5	2554.5	2565.7
10°	2438.4	2448.4	2458.4	2467.1	2480.9	2492.1	2502.1	2519.5	2528.3	2542.0	2557.0
12.5°	2406.0	2419.7	2428.5	2443.4	2458.4	2468.4	2483.4	2499.6	2513.3	2527.0	2544.5
15°	2377.3	2393.5	2403.5	2419.7	2436.0	2449.7	2465.9	2485.9	2495.8	2512.1	2528.3
17.5°	2346.1	2363.6	2376.1	2391.0	2411.0	2425.9	2439.7	2459.6	2472.1	2489.6	2508.3
20°	2313.7	2331.1	2346.1	2361.1	2381.0	2396.0	2412.2	2432.2	2445.9	2463.4	2478.4
22.5°	2275.0	2291.2	2307.4	2324.9	2344.8	2357.3	2376.1	2393.5	2408.5	2424.7	2439.7
25°	2225.1	2245.0	2257.5	2273.7	2289.9	2303.6	2323.6	2341.1	2353.6	2368.6	2382.3
27.5°	2166.4	2181.4	2191.4	2205.1	2221.3	2233.8	2248.7	2266.2	2278.7	2292.4	2302.4
30°	2066.5	2080.3	2089.0	2099.0	2115.2	2126.5	2139.0	2155.1	2163.9	2173.9	2182.6
32.5°	1935.5	1946.8	1951.7	1959.2	1970.5	1981.7	1991.7	2005.4	2009.2	2015.4	2015.4
35°	1745.9	1748.3	1747.1	1749.6	1754.6	1760.8	1769.5	1778.3	1783.3	1783.3	1779.6
37.5°	1523.7	1508.8	1492.5	1480.0	1476.3	1473.8	1478.8	1482.5	1487.5	1490.0	1483.8
40°	1292.9	1259.2	1223.0	1190.5	1168.1	1158.1	1154.3	1156.8	1156.8	1165.5	1165.5
42.5°	1094.4	1042.0	988.4	939.7	907.2	882.3	871.1	871.1	872.3	878.6	882.3
45°	929.7	863.6	801.1	747.5	702.6	670.1	655.2	651.4	650.2	652.7	661.4
47.5°	803.7	735.0	670.1	604.0	556.6	524.1	510.4	505.4	500.4	505.4	506.7
50°	705.1	634.0	565.3	499.2	449.2	420.5	403.1	395.6	394.3	394.3	396.8
52.5°	615.2	549.1	480.5	413.1	360.6	333.2	317.0	313.2	308.2	313.2	313.2
55°	530.3	464.2	396.8	333.2	289.5	260.8	245.8	240.9	238.3	242.1	242.1
57.5°	438.0	381.9	319.5	262.1	218.4	198.4	187.2	181.0	179.7	182.2	179.7
60°	359.4	312.0	258.3	205.9	172.2	151.0	142.3	139.8	137.2	139.8	139.8
62.5°	284.5	244.6	200.9	161.0	132.3	117.3	107.3	107.3	106.1	106.1	107.3
65°	210.9	179.7	148.5	114.8	92.4	81.1	73.6	73.6	72.4	73.6	72.4
67.5°	153.5	132.3	107.3	83.6	66.2	59.9	54.9	51.2	53.7	51.2	49.9
70°	112.3	94.8	77.4	63.6	51.2	44.9	41.2	39.9	37.4	37.4	37.4
72.5°	74.9	63.6	52.4	41.2	33.7	27.4	26.2	23.7	21.2	22.4	25.0
75°	49.9	42.4	37.4	29.9	22.4	22.4	15.0	15.0	12.5	15.0	11.2
77.5°	34.9	28.7	22.4	18.7	15.0	13.7	10.0	10.0	8.7	8.7	8.7
80°	25.0	21.2	16.2	13.7	10.0	10.0	8.7	7.5	6.2	6.2	7.5
82.5°	15.0	11.2	11.2	10.0	6.2	5.0	3.7	5.0	2.5	2.5	2.5
85°	8.7	7.5	6.2	3.7	2.5	2.5	1.2	0.0	1.2	1.2	0.0
87.5°	5.0	2.5	2.5	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.5
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°	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7
2.5°	2570.7	2569.5	2572.0	2572.0	2579.5	2578.2	2581.9	2581.9	2579.5	2580.7	2585.7
5°	2579.5	2583.2	2590.7	2596.9	2608.1	2613.2	2619.4	2625.7	2626.9	2630.6	2634.4
7.5°	2579.5	2592.0	2600.7	2611.9	2626.9	2635.6	2649.3	2660.6	2665.6	2671.8	2679.3
10°	2574.4	2586.9	2603.2	2615.6	2634.4	2648.1	2661.8	2679.3	2686.8	2696.7	2706.8
12.5°	2564.5	2578.2	2595.7	2611.9	2633.1	2645.6	2663.0	2679.3	2690.5	2704.2	2715.5
15°	2549.5	2565.7	2581.9	2598.2	2620.6	2635.6	2651.8	2670.5	2681.8	2696.7	2706.8
17.5°	2525.8	2543.3	2558.3	2573.2	2594.4	2611.9	2626.9	2644.3	2655.6	2668.1	2681.8
20°	2497.1	2513.3	2529.5	2542.0	2563.2	2578.2	2594.4	2610.7	2619.4	2621.9	2643.1
22.5°	2460.9	2472.1	2484.6	2504.6	2517.1	2530.8	2545.8	2560.7	2569.5	2583.2	2590.7
25°	2401.0	2412.2	2425.9	2434.7	2449.7	2460.9	2475.9	2492.1	2497.1	2507.1	2514.5
27.5°	2317.4	2323.6	2329.9	2337.3	2346.1	2352.3	2361.1	2368.6	2373.5	2378.5	2383.5
30°	2185.1	2185.1	2185.1	2180.1	2183.9	2187.6	2188.8	2187.6	2187.6	2186.4	2186.4
32.5°	2010.4	2000.4	1989.2	1979.2	1975.5	1970.5	1968.0	1964.2	1958.0	1954.3	1955.5
35°	1774.5	1752.1	1738.4	1725.9	1715.9	1708.4	1704.7	1700.9	1699.7	1694.7	1689.7
37.5°	1480.0	1463.8	1453.8	1446.3	1437.6	1430.1	1431.4	1432.6	1436.3	1433.9	1435.1
40°	1168.1	1164.3	1168.1	1159.3	1156.8	1159.3	1165.5	1174.3	1179.3	1184.3	1193.0
42.5°	888.5	894.7	903.5	903.5	907.2	912.3	919.7	933.5	940.9	949.6	959.7
45°	668.9	676.4	687.6	691.3	693.8	700.1	708.8	720.0	725.0	732.5	741.3
47.5°	515.4	520.4	526.6	532.9	539.1	541.6	550.3	550.3	556.6	561.6	564.0
50°	401.8	406.8	411.8	415.5	418.1	421.8	424.3	428.0	429.3	431.8	433.0
52.5°	314.5	320.7	320.7	323.2	326.9	330.7	329.5	330.7	331.9	331.9	335.7
55°	245.8	245.8	249.6	249.6	252.1	250.8	252.1	252.1	252.1	252.1	253.3
57.5°	183.4	184.7	188.5	185.9	184.7	187.2	184.7	187.2	185.9	188.5	184.7
60°	141.0	141.0	142.3	142.3	143.5	143.5	143.5	142.3	142.3	141.0	141.0
62.5°	106.1	107.3	108.6	107.3	107.3	107.3	106.1	106.1	104.8	103.6	103.6
65°	71.1	69.9	72.4	69.9	71.1	71.1	69.9	71.1	67.4	68.6	67.4
67.5°	51.2	49.9	48.7	49.9	48.7	47.4	47.4	48.7	49.9	46.2	46.2
70°	33.7	34.9	33.7	34.9	36.2	36.2	34.9	33.7	34.9	32.5	33.7
72.5°	21.2	21.2	21.2	21.2	21.2	22.4	22.4	22.4	20.0	20.0	18.7
75°	10.0	13.7	11.2	10.0	13.7	13.7	12.5	12.5	11.2	11.2	11.2
77.5°	10.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.2	7.5	6.2
80°	5.0	5.0	5.0	3.7	5.0	5.0	6.2	5.0	5.0	3.7	6.2
82.5°	2.5	2.5	2.5	0.0	1.2	2.5	2.5	1.2	2.5	2.5	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: P248740

CATALOG NUMBER: LD8B60D010 ER8B609727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7
2.5°	2584.5	2583.2	2584.5	2585.7	2584.5	2583.2	2584.5	2585.7	2580.7	2579.5	2581.9
5°	2639.4	2639.4	2641.8	2643.1	2641.8	2639.4	2639.4	2634.4	2630.6	2626.9	2625.7
7.5°	2686.8	2689.3	2691.8	2693.0	2691.8	2689.3	2686.8	2679.3	2671.8	2665.6	2660.6
10°	2715.5	2719.2	2724.2	2726.7	2724.2	2719.2	2715.5	2706.8	2696.7	2686.8	2679.3
12.5°	2728.0	2731.7	2737.9	2736.7	2737.9	2731.7	2728.0	2715.5	2704.2	2690.5	2679.3
15°	2719.2	2724.2	2730.4	2733.0	2730.4	2724.2	2719.2	2706.8	2696.7	2681.8	2670.5
17.5°	2691.8	2699.3	2703.0	2706.8	2703.0	2699.3	2691.8	2681.8	2668.1	2655.6	2644.3
20°	2654.3	2659.3	2664.3	2665.6	2664.3	2659.3	2654.3	2643.1	2621.9	2619.4	2610.7
22.5°	2600.7	2604.4	2615.6	2611.9	2615.6	2604.4	2600.7	2590.7	2583.2	2569.5	2560.7
25°	2523.3	2527.0	2528.3	2529.5	2528.3	2527.0	2523.3	2514.5	2507.1	2497.1	2492.1
27.5°	2389.8	2389.8	2392.2	2393.5	2392.2	2389.8	2389.8	2383.5	2378.5	2373.5	2368.6
30°	2187.6	2187.6	2187.6	2193.9	2187.6	2187.6	2187.6	2186.4	2186.4	2187.6	2187.6
32.5°	1954.3	1951.7	1949.3	1951.7	1949.3	1951.7	1954.3	1955.5	1954.3	1958.0	1964.2
35°	1689.7	1688.4	1692.2	1687.2	1692.2	1688.4	1689.7	1689.7	1694.7	1699.7	1700.9
37.5°	1436.3	1433.9	1438.9	1433.9	1438.9	1433.9	1436.3	1435.1	1433.9	1436.3	1432.6
40°	1195.5	1198.0	1198.0	1208.0	1198.0	1198.0	1195.5	1193.0	1184.3	1179.3	1174.3
42.5°	964.6	972.1	969.6	977.1	969.6	972.1	964.6	959.7	949.6	940.9	933.5
45°	746.2	751.3	751.3	753.7	751.3	751.3	746.2	741.3	732.5	725.0	720.0
47.5°	572.8	572.8	572.8	574.1	572.8	572.8	572.8	564.0	561.6	556.6	550.3
50°	435.5	436.8	438.0	439.3	438.0	436.8	435.5	433.0	431.8	429.3	428.0
52.5°	334.4	335.7	333.2	335.7	333.2	335.7	334.4	335.7	331.9	331.9	330.7
55°	253.3	252.1	253.3	254.6	253.3	252.1	253.3	253.3	252.1	252.1	252.1
57.5°	185.9	183.4	183.4	183.4	183.4	183.4	185.9	184.7	188.5	185.9	187.2
60°	138.5	139.8	139.8	141.0	139.8	139.8	138.5	141.0	141.0	142.3	142.3
62.5°	102.3	106.1	103.6	106.1	103.6	106.1	102.3	103.6	103.6	104.8	106.1
65°	66.2	66.2	66.2	67.4	66.2	66.2	66.2	67.4	68.6	67.4	71.1
67.5°	44.9	46.2	48.7	47.4	48.7	46.2	44.9	46.2	46.2	49.9	48.7
70°	36.2	32.5	32.5	36.2	32.5	32.5	36.2	33.7	32.5	34.9	33.7
72.5°	21.2	18.7	21.2	21.2	21.2	18.7	21.2	18.7	20.0	20.0	22.4
75°	11.2	10.0	8.7	12.5	8.7	10.0	11.2	11.2	11.2	11.2	12.5
77.5°	7.5	6.2	8.7	8.7	8.7	6.2	7.5	6.2	7.5	6.2	7.5
80°	3.7	5.0	3.7	6.2	3.7	5.0	3.7	6.2	3.7	5.0	5.0
82.5°	1.2	2.5	2.5	2.5	2.5	2.5	1.2	1.2	2.5	2.5	1.2
85°	0.0	2.5	1.2	1.2	1.2	2.5	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: P248740

CATALOG NUMBER: LD8B60D010 ER8B609727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7
2.5°	2581.9	2578.2	2579.5	2572.0	2572.0	2569.5	2570.7	2564.5	2562.0	2559.5	2563.2
5°	2619.4	2613.2	2608.1	2596.9	2590.7	2583.2	2579.5	2569.5	2560.7	2553.2	2552.0
7.5°	2649.3	2635.6	2626.9	2611.9	2600.7	2592.0	2579.5	2565.7	2554.5	2544.5	2537.0
10°	2661.8	2648.1	2634.4	2615.6	2603.2	2586.9	2574.4	2557.0	2542.0	2528.3	2519.5
12.5°	2663.0	2645.6	2633.1	2611.9	2595.7	2578.2	2564.5	2544.5	2527.0	2513.3	2499.6
15°	2651.8	2635.6	2620.6	2598.2	2581.9	2565.7	2549.5	2528.3	2512.1	2495.8	2485.9
17.5°	2626.9	2611.9	2594.4	2573.2	2558.3	2543.3	2525.8	2508.3	2489.6	2472.1	2459.6
20°	2594.4	2578.2	2563.2	2542.0	2529.5	2513.3	2497.1	2478.4	2463.4	2445.9	2432.2
22.5°	2545.8	2530.8	2517.1	2504.6	2484.6	2472.1	2460.9	2439.7	2424.7	2408.5	2393.5
25°	2475.9	2460.9	2449.7	2434.7	2425.9	2412.2	2401.0	2382.3	2368.6	2353.6	2341.1
27.5°	2361.1	2352.3	2346.1	2337.3	2329.9	2323.6	2317.4	2302.4	2292.4	2278.7	2266.2
30°	2188.8	2187.6	2183.9	2180.1	2185.1	2185.1	2185.1	2182.6	2173.9	2163.9	2155.1
32.5°	1968.0	1970.5	1975.5	1979.2	1989.2	2000.4	2010.4	2015.4	2015.4	2009.2	2005.4
35°	1704.7	1708.4	1715.9	1725.9	1738.4	1752.1	1774.5	1779.6	1783.3	1783.3	1778.3
37.5°	1431.4	1430.1	1437.6	1446.3	1453.8	1463.8	1480.0	1483.8	1490.0	1487.5	1482.5
40°	1165.5	1159.3	1156.8	1159.3	1168.1	1164.3	1168.1	1165.5	1165.5	1156.8	1156.8
42.5°	919.7	912.3	907.2	903.5	903.5	894.7	888.5	882.3	878.6	872.3	871.1
45°	708.8	700.1	693.8	691.3	687.6	676.4	668.9	661.4	652.7	650.2	651.4
47.5°	550.3	541.6	539.1	532.9	526.6	520.4	515.4	506.7	505.4	500.4	505.4
50°	424.3	421.8	418.1	415.5	411.8	406.8	401.8	396.8	394.3	394.3	395.6
52.5°	329.5	330.7	326.9	323.2	320.7	320.7	314.5	313.2	313.2	308.2	313.2
55°	252.1	250.8	252.1	249.6	249.6	245.8	245.8	242.1	242.1	238.3	240.9
57.5°	184.7	187.2	184.7	185.9	188.5	184.7	183.4	179.7	182.2	179.7	181.0
60°	143.5	143.5	143.5	142.3	142.3	141.0	141.0	139.8	139.8	137.2	139.8
62.5°	106.1	107.3	107.3	107.3	108.6	107.3	106.1	107.3	106.1	106.1	107.3
65°	69.9	71.1	71.1	69.9	72.4	69.9	71.1	72.4	73.6	72.4	73.6
67.5°	47.4	47.4	48.7	49.9	48.7	49.9	51.2	49.9	51.2	53.7	51.2
70°	34.9	36.2	36.2	34.9	33.7	34.9	33.7	37.4	37.4	37.4	39.9
72.5°	22.4	22.4	21.2	21.2	21.2	21.2	21.2	25.0	22.4	21.2	23.7
75°	12.5	13.7	13.7	10.0	11.2	13.7	10.0	11.2	15.0	12.5	15.0
77.5°	7.5	7.5	7.5	7.5	7.5	7.5	10.0	8.7	8.7	8.7	10.0
80°	6.2	5.0	5.0	3.7	5.0	5.0	5.0	7.5	6.2	6.2	7.5
82.5°	2.5	2.5	1.2	0.0	2.5	2.5	2.5	2.5	2.5	2.5	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	2.5	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: P248740

CATALOG NUMBER: LD8B60D010 ER8B609727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7
2.5°	2553.2	2553.2	2552.0	2549.5	2544.5	2544.5	2543.3	2539.5	2537.0	2535.8	2535.8
5°	2540.7	2535.8	2530.8	2517.1	2517.1	2514.5	2507.1	2502.1	2499.6	2493.3	2490.9
7.5°	2529.5	2514.5	2505.8	2497.1	2485.9	2480.9	2472.1	2468.4	2459.6	2453.4	2449.7
10°	2502.1	2492.1	2480.9	2467.1	2458.4	2448.4	2438.4	2431.0	2419.7	2413.5	2408.5
12.5°	2483.4	2468.4	2458.4	2443.4	2428.5	2419.7	2406.0	2397.3	2386.0	2373.5	2366.0
15°	2465.9	2449.7	2436.0	2419.7	2403.5	2393.5	2377.3	2367.3	2351.1	2338.6	2329.9
17.5°	2439.7	2425.9	2411.0	2391.0	2376.1	2363.6	2346.1	2333.6	2318.6	2302.4	2293.7
20°	2412.2	2396.0	2381.0	2361.1	2346.1	2331.1	2313.7	2299.9	2282.4	2267.5	2257.5
22.5°	2376.1	2357.3	2344.8	2324.9	2307.4	2291.2	2275.0	2258.7	2242.5	2230.0	2218.8
25°	2323.6	2303.6	2289.9	2273.7	2257.5	2245.0	2225.1	2215.1	2198.9	2187.6	2176.4
27.5°	2248.7	2233.8	2221.3	2205.1	2191.4	2181.4	2166.4	2156.4	2142.7	2132.7	2124.0
30°	2139.0	2126.5	2115.2	2099.0	2089.0	2080.3	2066.5	2057.8	2047.8	2036.6	2034.1
32.5°	1991.7	1981.7	1970.5	1959.2	1951.7	1946.8	1935.5	1930.5	1920.6	1914.3	1908.1
35°	1769.5	1760.8	1754.6	1749.6	1747.1	1748.3	1745.9	1750.8	1753.3	1752.1	1753.3
37.5°	1478.8	1473.8	1476.3	1480.0	1492.5	1508.8	1523.7	1546.2	1561.2	1576.2	1589.9
40°	1154.3	1158.1	1168.1	1190.5	1223.0	1259.2	1292.9	1335.3	1377.7	1407.7	1435.1
42.5°	871.1	882.3	907.2	939.7	988.4	1042.0	1094.4	1156.8	1208.0	1257.9	1292.9
45°	655.2	670.1	702.6	747.5	801.1	863.6	929.7	999.6	1060.7	1111.9	1150.6
47.5°	510.4	524.1	556.6	604.0	670.1	735.0	803.7	876.0	939.7	989.6	1023.3
50°	403.1	420.5	449.2	499.2	565.3	634.0	705.1	776.2	836.1	878.6	908.5
52.5°	317.0	333.2	360.6	413.1	480.5	549.1	615.2	685.1	737.5	778.7	798.7
55°	245.8	260.8	289.5	333.2	396.8	464.2	530.3	590.3	638.9	668.9	687.6
57.5°	187.2	198.4	218.4	262.1	319.5	381.9	438.0	497.9	535.4	556.6	569.0
60°	142.3	151.0	172.2	205.9	258.3	312.0	359.4	404.3	434.3	451.8	464.2
62.5°	107.3	117.3	132.3	161.0	200.9	244.6	284.5	318.2	343.2	354.4	363.2
65°	73.6	81.1	92.4	114.8	148.5	179.7	210.9	235.9	252.1	264.6	269.6
67.5°	54.9	59.9	66.2	83.6	107.3	132.3	153.5	170.9	188.5	193.4	202.2
70°	41.2	44.9	51.2	63.6	77.4	94.8	112.3	122.3	134.8	143.5	146.0
72.5°	26.2	27.4	33.7	41.2	52.4	63.6	74.9	83.6	91.1	96.1	98.6
75°	15.0	22.4	22.4	29.9	37.4	42.4	49.9	56.1	59.9	63.6	63.6
77.5°	10.0	13.7	15.0	18.7	22.4	28.7	34.9	38.7	42.4	43.7	43.7
80°	8.7	10.0	10.0	13.7	16.2	21.2	25.0	26.2	28.7	29.9	32.5
82.5°	3.7	5.0	6.2	10.0	11.2	11.2	15.0	16.2	18.7	20.0	20.0
85°	1.2	2.5	2.5	3.7	6.2	7.5	8.7	10.0	11.2	11.2	12.5
87.5°	1.2	1.2	0.0	1.2	2.5	2.5	5.0	5.0	5.0	7.5	7.5
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: P248740

CATALOG NUMBER: LD8B60D010 ER8B609727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7	2555.7
2.5°	2533.3	2534.5	2529.5	2528.3	2525.8	2527.0	2529.5
5°	2487.1	2488.4	2483.4	2478.4	2478.4	2477.1	2478.4
7.5°	2443.4	2444.7	2437.2	2434.7	2429.7	2431.0	2431.0
10°	2399.7	2399.7	2388.5	2387.3	2383.5	2382.3	2382.3
12.5°	2357.3	2353.6	2344.8	2339.9	2342.4	2334.9	2334.9
15°	2319.9	2313.7	2302.4	2298.7	2292.4	2289.9	2289.9
17.5°	2281.2	2276.2	2266.2	2258.7	2251.2	2250.0	2251.2
20°	2243.7	2238.8	2226.3	2221.3	2215.1	2215.1	2212.6
22.5°	2206.3	2201.3	2190.1	2186.4	2177.6	2177.6	2178.9
25°	2167.6	2163.9	2151.4	2148.9	2147.7	2142.7	2145.2
27.5°	2115.2	2112.7	2102.7	2099.0	2094.0	2092.8	2095.3
30°	2019.1	2015.4	2007.9	2004.2	1995.4	1996.7	1999.1
32.5°	1899.3	1894.4	1884.3	1880.6	1873.1	1870.6	1871.9
35°	1749.6	1745.9	1737.1	1737.1	1729.6	1727.1	1729.6
37.5°	1597.4	1601.1	1597.4	1601.1	1597.4	1596.1	1597.4
40°	1453.8	1467.6	1470.0	1483.8	1478.8	1486.3	1485.0
42.5°	1316.5	1339.0	1347.8	1359.0	1356.5	1361.5	1365.2
45°	1178.0	1196.8	1205.5	1213.0	1214.2	1216.7	1218.0
47.5°	1047.0	1062.0	1063.2	1071.9	1070.7	1070.7	1074.5
50°	924.7	934.7	937.2	943.4	938.4	935.9	937.2
52.5°	811.2	821.1	818.6	821.1	814.9	812.4	813.6
55°	695.1	700.1	700.1	700.1	692.6	692.6	692.6
57.5°	576.5	577.8	575.3	576.5	575.3	567.8	566.6
60°	468.0	468.0	466.7	468.0	464.2	460.5	460.5
62.5°	365.6	368.1	373.1	368.1	365.6	368.1	364.4
65°	273.3	278.3	277.0	279.5	278.3	278.3	275.8
67.5°	205.9	207.2	208.4	209.7	209.7	209.7	209.7
70°	151.0	154.8	153.5	153.5	153.5	153.5	161.0
72.5°	101.1	106.1	104.8	107.3	107.3	109.8	107.3
75°	68.6	73.6	71.1	74.9	73.6	71.1	77.4
77.5°	46.2	48.7	49.9	51.2	49.9	48.7	49.9
80°	32.5	34.9	33.7	34.9	34.9	34.9	36.2
82.5°	20.0	23.7	22.4	23.7	22.4	23.7	23.7
85°	13.7	15.0	12.5	15.0	13.7	13.7	16.2
87.5°	8.7	7.5	7.5	8.7	7.5	8.7	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)