

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: P248938

Luminaire Tested: **LD8B60D010 ER8B60940 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248938
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 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4245.0 lumens
Efficiency: N/A
Efficacy: 71.3 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

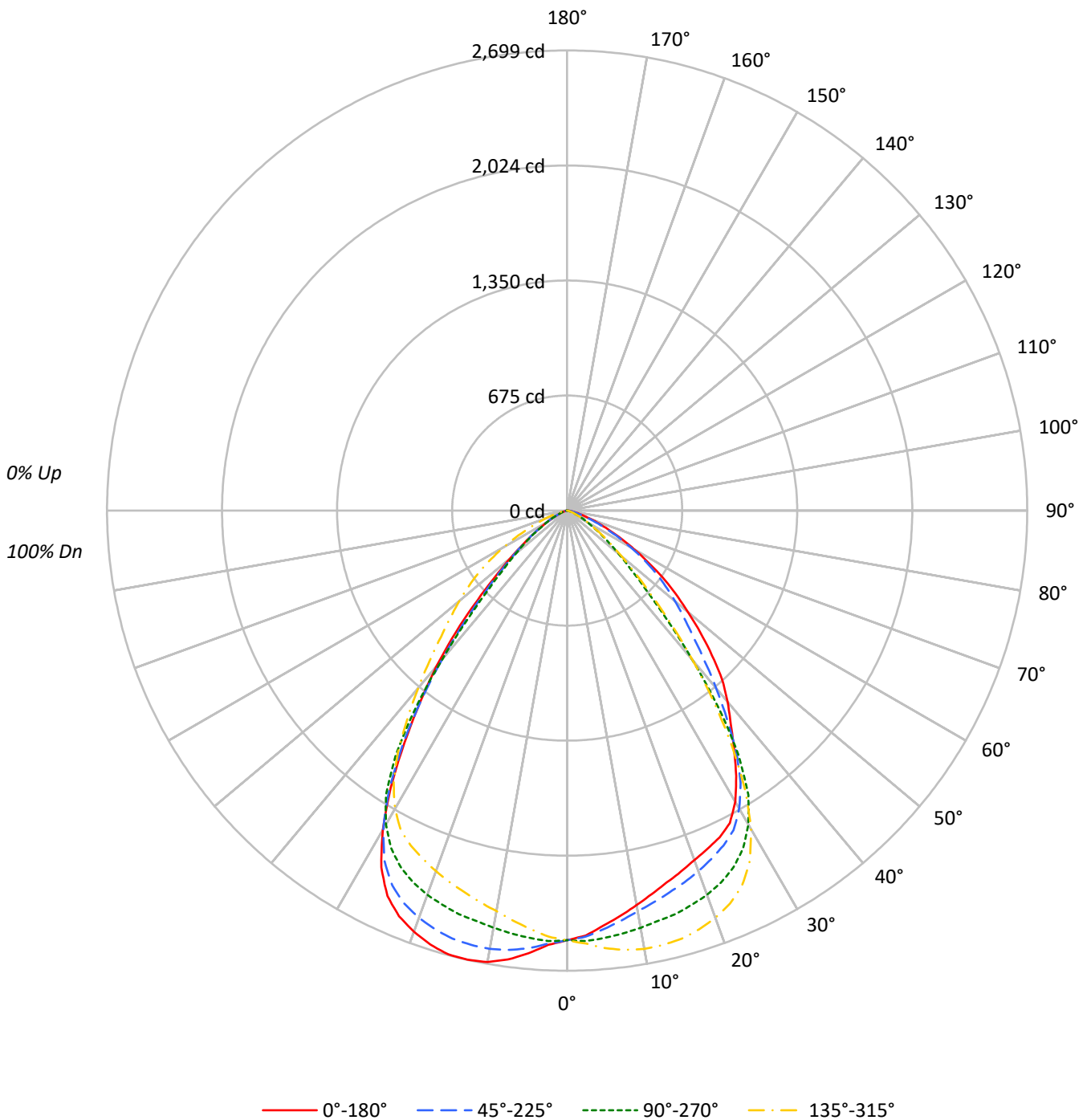
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	77711	77711	77711	77711
5°	75646	77893	80676	77893
10°	73555	77792	84189	77792
15°	72085	78252	86032	78252
20°	71593	78701	86252	78701
25°	71971	78545	84866	78545
30°	70192	75668	77028	75668
35°	64202	66009	62629	66009
40°	58944	45918	47951	45918
45°	52375	28010	32410	28010
50°	44332	18714	20782	18714
55°	36719	12768	13494	12768
60°	28006	8498	8572	8498
65°	19839	5297	4852	5297
70°	14308	3552	3219	3552
75°	9091	1763	1465	1763
80°	6340	1314	1083	1314
85°	5661	0	425	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	5.7
10°-20°	694.6	16.4
20°-30°	1051.8	24.8
30°-40°	1054.1	24.8
40°-50°	662.0	15.6
50°-60°	352.8	8.3
60°-70°	145.1	3.4
70°-80°	38.3	0.9
80°-90°	6.5	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°	1986.3	46.8
0°-40°	3040.4	71.6
0°-60°	4055.1	95.5
0°-90°	4245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4245.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2520	2520	2520	2520	2520	
5°	2444	2516	2606	2516	2444	230
15°	2258	2451	2695	2451	2258	639
25°	2115	2308	2494	2308	2115	970
35°	1706	1754	1664	1754	1706	1069
45°	1201	642	743	642	1201	924
55°	683	238	251	238	683	609
65°	272	73	66	73	272	282
75°	76	15	12	15	76	86
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°	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1
2.5°	2494.3	2491.8	2490.6	2493.1	2494.3	2499.2	2498.0	2500.4	2500.4	2501.7	2504.1
5°	2443.8	2442.6	2443.8	2443.8	2448.8	2453.7	2452.5	2456.2	2458.6	2464.8	2467.2
7.5°	2397.1	2397.1	2395.8	2400.7	2403.2	2410.6	2409.4	2415.5	2419.2	2425.4	2434.0
10°	2349.1	2349.1	2350.3	2354.0	2355.3	2366.3	2366.3	2374.9	2379.8	2386.0	2397.1
12.5°	2302.3	2302.3	2309.7	2307.2	2312.2	2320.8	2324.5	2333.1	2340.5	2352.8	2363.9
15°	2258.0	2258.0	2260.5	2266.6	2270.3	2281.4	2287.5	2297.4	2306.0	2318.3	2334.3
17.5°	2219.9	2218.7	2219.9	2227.3	2234.7	2244.5	2249.4	2261.7	2270.3	2286.3	2301.1
20°	2181.7	2184.2	2184.2	2190.3	2195.3	2207.6	2212.5	2226.1	2235.9	2250.6	2267.9
22.5°	2148.5	2147.3	2147.3	2155.9	2159.6	2170.6	2175.6	2187.9	2199.0	2211.3	2227.3
25°	2115.3	2112.8	2117.8	2119.0	2121.4	2133.7	2137.4	2146.0	2157.1	2168.2	2184.2
27.5°	2066.0	2063.6	2064.8	2069.7	2073.4	2083.3	2085.8	2094.4	2103.0	2112.8	2126.4
30°	1971.3	1968.9	1967.6	1976.2	1979.9	1987.3	1991.0	2005.8	2008.2	2019.3	2029.1
32.5°	1845.8	1844.6	1847.0	1854.4	1858.1	1868.0	1872.9	1881.5	1887.6	1893.8	1903.6
35°	1705.5	1703.0	1705.5	1712.9	1712.9	1721.5	1725.2	1728.9	1727.7	1728.9	1726.4
37.5°	1575.1	1573.8	1575.1	1578.7	1575.1	1578.7	1575.1	1567.7	1554.2	1539.4	1524.6
40°	1464.3	1465.5	1458.2	1463.1	1449.5	1447.1	1433.6	1415.1	1388.1	1358.5	1316.7
42.5°	1346.2	1342.5	1337.6	1340.0	1329.0	1320.3	1298.2	1274.9	1240.4	1191.2	1140.7
45°	1201.0	1199.8	1197.3	1196.1	1188.7	1180.1	1161.6	1134.6	1096.4	1046.0	985.6
47.5°	1059.5	1055.8	1055.8	1057.0	1048.4	1047.2	1032.4	1009.0	975.8	926.6	863.8
50°	924.1	922.9	925.4	930.3	924.1	921.7	911.8	895.8	866.3	824.5	765.4
52.5°	802.3	801.1	803.6	809.7	807.2	809.7	799.9	787.6	767.8	727.2	675.6
55°	683.0	683.0	683.0	690.3	690.3	690.3	685.4	678.0	659.6	630.0	582.1
57.5°	558.7	559.9	567.3	568.5	567.3	569.8	568.5	561.1	548.8	527.9	491.0
60°	454.1	454.1	457.8	461.5	460.2	461.5	461.5	457.8	445.5	428.2	398.7
62.5°	359.3	363.0	360.5	363.0	367.9	363.0	360.5	358.1	349.5	338.4	313.8
65°	271.9	274.4	274.4	275.6	273.2	274.4	269.5	265.8	260.9	248.6	232.6
67.5°	206.8	206.8	206.8	206.8	205.5	204.3	203.1	199.4	190.7	185.8	168.6
70°	158.7	151.3	151.3	151.3	151.3	152.6	148.9	144.0	141.5	132.9	120.6
72.5°	105.8	108.3	105.8	105.8	103.4	104.6	99.7	97.2	94.8	89.9	82.5
75°	76.3	70.1	72.6	73.8	70.1	72.6	67.7	62.8	62.8	59.1	55.4
77.5°	49.2	48.0	49.2	50.4	49.2	48.0	45.5	43.1	43.1	41.8	38.1
80°	35.7	34.4	34.4	34.4	33.2	34.4	32.0	32.0	29.5	28.3	25.8
82.5°	23.4	23.4	22.1	23.4	22.1	23.4	19.7	19.7	19.7	18.4	16.0
85°	16.0	13.5	13.5	14.8	12.3	14.8	13.5	12.3	11.1	11.1	9.8
87.5°	7.4	8.6	7.4	8.6	7.4	7.4	8.6	7.4	7.4	4.9	4.9
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°	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1
2.5°	2507.8	2509.0	2509.0	2514.0	2516.4	2517.6	2517.6	2527.5	2523.8	2526.3	2528.7
5°	2472.2	2479.5	2482.0	2482.0	2495.5	2500.4	2505.3	2516.4	2517.6	2525.0	2533.6
7.5°	2437.7	2446.3	2451.2	2462.3	2470.9	2479.5	2494.3	2501.7	2509.0	2518.9	2529.9
10°	2404.4	2414.3	2424.1	2432.8	2446.3	2457.4	2467.2	2484.4	2493.1	2506.6	2521.3
12.5°	2372.5	2386.0	2394.6	2409.4	2424.1	2434.0	2448.8	2464.8	2478.3	2491.8	2509.0
15°	2344.2	2360.2	2370.0	2386.0	2402.0	2415.5	2431.5	2451.2	2461.1	2477.1	2493.1
17.5°	2313.4	2330.6	2342.9	2357.7	2377.4	2392.1	2405.7	2425.4	2437.7	2454.9	2473.4
20°	2281.4	2298.6	2313.4	2328.2	2347.9	2362.6	2378.6	2398.3	2411.8	2429.1	2443.8
22.5°	2243.3	2259.3	2275.2	2292.5	2312.2	2324.5	2342.9	2360.2	2374.9	2390.9	2405.7
25°	2194.0	2213.7	2226.1	2242.0	2258.0	2271.5	2291.2	2308.5	2320.8	2335.6	2349.1
27.5°	2136.2	2151.0	2160.8	2174.3	2190.3	2202.7	2217.4	2234.7	2247.0	2260.5	2270.3
30°	2037.7	2051.3	2059.9	2069.7	2085.8	2096.8	2109.2	2125.1	2133.7	2143.6	2152.2
32.5°	1908.5	1919.6	1924.5	1931.9	1943.0	1954.1	1963.9	1977.5	1981.2	1987.3	1987.3
35°	1721.5	1724.0	1722.7	1725.2	1730.1	1736.3	1744.9	1753.5	1758.4	1758.4	1754.8
37.5°	1502.5	1487.7	1471.7	1459.4	1455.7	1453.2	1458.2	1461.8	1466.8	1469.2	1463.1
40°	1274.9	1241.6	1205.9	1173.9	1151.8	1141.9	1138.2	1140.7	1140.7	1149.3	1149.3
42.5°	1079.2	1027.5	974.6	926.6	894.6	870.0	858.9	858.9	860.1	866.3	870.0
45°	916.8	851.5	790.0	737.1	692.8	660.8	646.0	642.3	641.1	643.6	652.2
47.5°	792.5	724.8	660.8	595.6	548.8	516.8	503.3	498.3	493.4	498.3	499.6
50°	695.3	625.1	557.4	492.2	443.0	414.7	397.4	390.1	388.8	388.8	391.3
52.5°	606.6	541.4	473.8	407.3	355.6	328.6	312.6	308.9	303.9	308.9	308.9
55°	523.0	457.8	391.3	328.6	285.5	257.2	242.4	237.5	235.0	238.7	238.7
57.5°	431.9	376.5	315.0	258.4	215.4	195.7	184.6	178.4	177.2	179.7	177.2
60°	354.4	307.6	254.7	203.1	169.8	148.9	140.3	137.8	135.3	137.8	137.8
62.5°	280.5	241.2	198.1	158.7	130.4	115.7	105.8	105.8	104.6	104.6	105.8
65°	208.0	177.2	146.4	113.2	91.1	80.0	72.6	72.6	71.4	72.6	71.4
67.5°	151.3	130.4	105.8	82.5	65.2	59.1	54.1	50.4	52.9	50.4	49.2
70°	110.8	93.5	76.3	62.8	50.4	44.3	40.6	39.4	36.9	36.9	36.9
72.5°	73.8	62.8	51.7	40.6	33.2	27.0	25.8	23.4	20.9	22.1	24.6
75°	49.2	41.8	36.9	29.5	22.1	22.1	14.8	14.8	12.3	14.8	11.1
77.5°	34.4	28.3	22.1	18.4	14.8	13.5	9.8	9.8	8.6	8.6	8.6
80°	24.6	20.9	16.0	13.5	9.8	9.8	8.6	7.4	6.1	6.1	7.4
82.5°	14.8	11.1	11.1	9.8	6.1	4.9	3.7	4.9	2.5	2.5	2.5
85°	8.6	7.4	6.1	3.7	2.5	2.5	1.2	0.0	1.2	1.2	0.0
87.5°	4.9	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°	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1
2.5°	2534.9	2533.6	2536.1	2536.1	2543.5	2542.3	2546.0	2546.0	2543.5	2544.7	2549.7
5°	2543.5	2547.2	2554.6	2560.7	2571.8	2576.7	2582.9	2589.1	2590.3	2594.0	2597.7
7.5°	2543.5	2555.8	2564.4	2575.5	2590.3	2598.9	2612.4	2623.5	2628.4	2634.5	2641.9
10°	2538.6	2550.9	2566.9	2579.2	2597.7	2611.2	2624.7	2641.9	2649.3	2659.2	2669.0
12.5°	2528.7	2542.3	2559.5	2575.5	2596.4	2608.7	2625.9	2641.9	2653.0	2666.6	2677.6
15°	2514.0	2529.9	2546.0	2562.0	2584.1	2598.9	2614.9	2633.3	2644.4	2659.2	2669.0
17.5°	2490.6	2507.8	2522.6	2537.3	2558.3	2575.5	2590.3	2607.5	2618.6	2630.9	2644.4
20°	2462.3	2478.3	2494.3	2506.6	2527.5	2542.3	2558.3	2574.3	2582.9	2585.4	2606.3
22.5°	2426.6	2437.7	2450.0	2469.7	2482.0	2495.5	2510.3	2525.0	2533.6	2547.2	2554.6
25°	2367.5	2378.6	2392.1	2400.7	2415.5	2426.6	2441.4	2457.4	2462.3	2472.2	2479.5
27.5°	2285.1	2291.2	2297.4	2304.8	2313.4	2319.5	2328.2	2335.6	2340.5	2345.4	2350.3
30°	2154.6	2154.6	2154.6	2149.7	2153.4	2157.1	2158.3	2157.1	2157.1	2155.9	2155.9
32.5°	1982.4	1972.5	1961.5	1951.6	1947.9	1943.0	1940.5	1936.8	1930.7	1927.0	1928.2
35°	1749.8	1727.7	1714.1	1701.8	1692.0	1684.6	1680.9	1677.2	1676.0	1671.1	1666.1
37.5°	1459.4	1443.4	1433.6	1426.2	1417.6	1410.2	1411.4	1412.7	1416.3	1413.9	1415.1
40°	1151.8	1148.1	1151.8	1143.2	1140.7	1143.2	1149.3	1158.0	1162.9	1167.8	1176.4
42.5°	876.1	882.3	890.9	890.9	894.6	899.5	906.9	920.5	927.8	936.4	946.3
45°	659.6	667.0	678.0	681.7	684.2	690.3	699.0	710.0	714.9	722.3	730.9
47.5°	508.2	513.1	519.3	525.4	531.6	534.0	542.7	542.7	548.8	553.8	556.2
50°	396.2	401.1	406.1	409.8	412.2	415.9	418.4	422.1	423.3	425.8	427.0
52.5°	310.1	316.3	316.3	318.7	322.4	326.1	324.9	326.1	327.3	327.3	331.0
55°	242.4	242.4	246.1	246.1	248.6	247.3	248.6	248.6	248.6	248.6	249.8
57.5°	180.9	182.1	185.8	183.4	182.1	184.6	182.1	184.6	183.4	185.8	182.1
60°	139.0	139.0	140.3	140.3	141.5	141.5	141.5	140.3	140.3	139.0	139.0
62.5°	104.6	105.8	107.1	105.8	105.8	105.8	104.6	104.6	103.4	102.1	102.1
65°	70.1	68.9	71.4	68.9	70.1	70.1	68.9	70.1	66.5	67.7	66.5
67.5°	50.4	49.2	48.0	49.2	48.0	46.7	46.7	48.0	49.2	45.5	45.5
70°	33.2	34.4	33.2	34.4	35.7	35.7	34.4	33.2	34.4	32.0	33.2
72.5°	20.9	20.9	20.9	20.9	20.9	22.1	22.1	22.1	19.7	19.7	18.4
75°	9.8	13.5	11.1	9.8	13.5	13.5	12.3	12.3	11.1	11.1	11.1
77.5°	9.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4	6.1	7.4	6.1
80°	4.9	4.9	4.9	3.7	4.9	4.9	6.1	4.9	4.9	3.7	6.1
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: P248938

CATALOG NUMBER: LD8B60D010 ER8B60940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1
2.5°	2548.4	2547.2	2548.4	2549.7	2548.4	2547.2	2548.4	2549.7	2544.7	2543.5	2546.0
5°	2602.6	2602.6	2605.0	2606.3	2605.0	2602.6	2602.6	2597.7	2594.0	2590.3	2589.1
7.5°	2649.3	2651.8	2654.2	2655.5	2654.2	2651.8	2649.3	2641.9	2634.5	2628.4	2623.5
10°	2677.6	2681.3	2686.3	2688.7	2686.3	2681.3	2677.6	2669.0	2659.2	2649.3	2641.9
12.5°	2690.0	2693.6	2699.8	2698.6	2699.8	2693.6	2690.0	2677.6	2666.6	2653.0	2641.9
15°	2681.3	2686.3	2692.4	2694.9	2692.4	2686.3	2681.3	2669.0	2659.2	2644.4	2633.3
17.5°	2654.2	2661.6	2665.3	2669.0	2665.3	2661.6	2654.2	2644.4	2630.9	2618.6	2607.5
20°	2617.3	2622.3	2627.2	2628.4	2627.2	2622.3	2617.3	2606.3	2585.4	2582.9	2574.3
22.5°	2564.4	2568.1	2579.2	2575.5	2579.2	2568.1	2564.4	2554.6	2547.2	2533.6	2525.0
25°	2488.1	2491.8	2493.1	2494.3	2493.1	2491.8	2488.1	2479.5	2472.2	2462.3	2457.4
27.5°	2356.5	2356.5	2358.9	2360.2	2358.9	2356.5	2356.5	2350.3	2345.4	2340.5	2335.6
30°	2157.1	2157.1	2157.1	2163.3	2157.1	2157.1	2157.1	2155.9	2155.9	2157.1	2157.1
32.5°	1927.0	1924.5	1922.1	1924.5	1922.1	1924.5	1927.0	1928.2	1927.0	1930.7	1936.8
35°	1666.1	1664.9	1668.6	1663.7	1668.6	1664.9	1666.1	1666.1	1671.1	1676.0	1677.2
37.5°	1416.3	1413.9	1418.8	1413.9	1418.8	1413.9	1416.3	1415.1	1413.9	1416.3	1412.7
40°	1178.9	1181.3	1181.3	1191.2	1181.3	1181.3	1178.9	1176.4	1167.8	1162.9	1158.0
42.5°	951.2	958.6	956.1	963.5	956.1	958.6	951.2	946.3	936.4	927.8	920.5
45°	735.8	740.8	740.8	743.2	740.8	740.8	735.8	730.9	722.3	714.9	710.0
47.5°	564.8	564.8	564.8	566.1	564.8	564.8	564.8	556.2	553.8	548.8	542.7
50°	429.5	430.7	431.9	433.2	431.9	430.7	429.5	427.0	425.8	423.3	422.1
52.5°	329.8	331.0	328.6	331.0	328.6	331.0	329.8	331.0	327.3	327.3	326.1
55°	249.8	248.6	249.8	251.0	249.8	248.6	249.8	249.8	248.6	248.6	248.6
57.5°	183.4	180.9	180.9	180.9	180.9	180.9	183.4	182.1	185.8	183.4	184.6
60°	136.6	137.8	137.8	139.0	137.8	137.8	136.6	139.0	139.0	140.3	140.3
62.5°	100.9	104.6	102.1	104.6	102.1	104.6	100.9	102.1	102.1	103.4	104.6
65°	65.2	65.2	65.2	66.5	65.2	65.2	65.2	66.5	67.7	66.5	70.1
67.5°	44.3	45.5	48.0	46.7	48.0	45.5	44.3	45.5	45.5	49.2	48.0
70°	35.7	32.0	32.0	35.7	32.0	32.0	35.7	33.2	32.0	34.4	33.2
72.5°	20.9	18.4	20.9	20.9	20.9	18.4	20.9	18.4	19.7	19.7	22.1
75°	11.1	9.8	8.6	12.3	8.6	9.8	11.1	11.1	11.1	11.1	12.3
77.5°	7.4	6.1	8.6	8.6	8.6	6.1	7.4	6.1	7.4	6.1	7.4
80°	3.7	4.9	3.7	6.1	3.7	4.9	3.7	6.1	3.7	4.9	4.9
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: P248938

CATALOG NUMBER: LD8B60D010 ER8B60940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1
2.5°	2546.0	2542.3	2543.5	2536.1	2536.1	2533.6	2534.9	2528.7	2526.3	2523.8	2527.5
5°	2582.9	2576.7	2571.8	2560.7	2554.6	2547.2	2543.5	2533.6	2525.0	2517.6	2516.4
7.5°	2612.4	2598.9	2590.3	2575.5	2564.4	2555.8	2543.5	2529.9	2518.9	2509.0	2501.7
10°	2624.7	2611.2	2597.7	2579.2	2566.9	2550.9	2538.6	2521.3	2506.6	2493.1	2484.4
12.5°	2625.9	2608.7	2596.4	2575.5	2559.5	2542.3	2528.7	2509.0	2491.8	2478.3	2464.8
15°	2614.9	2598.9	2584.1	2562.0	2546.0	2529.9	2514.0	2493.1	2477.1	2461.1	2451.2
17.5°	2590.3	2575.5	2558.3	2537.3	2522.6	2507.8	2490.6	2473.4	2454.9	2437.7	2425.4
20°	2558.3	2542.3	2527.5	2506.6	2494.3	2478.3	2462.3	2443.8	2429.1	2411.8	2398.3
22.5°	2510.3	2495.5	2482.0	2469.7	2450.0	2437.7	2426.6	2405.7	2390.9	2374.9	2360.2
25°	2441.4	2426.6	2415.5	2400.7	2392.1	2378.6	2367.5	2349.1	2335.6	2320.8	2308.5
27.5°	2328.2	2319.5	2313.4	2304.8	2297.4	2291.2	2285.1	2270.3	2260.5	2247.0	2234.7
30°	2158.3	2157.1	2153.4	2149.7	2154.6	2154.6	2154.6	2152.2	2143.6	2133.7	2125.1
32.5°	1940.5	1943.0	1947.9	1951.6	1961.5	1972.5	1982.4	1987.3	1987.3	1981.2	1977.5
35°	1680.9	1684.6	1692.0	1701.8	1714.1	1727.7	1749.8	1754.8	1758.4	1758.4	1753.5
37.5°	1411.4	1410.2	1417.6	1426.2	1433.6	1443.4	1459.4	1463.1	1469.2	1466.8	1461.8
40°	1149.3	1143.2	1140.7	1143.2	1151.8	1148.1	1151.8	1149.3	1149.3	1140.7	1140.7
42.5°	906.9	899.5	894.6	890.9	890.9	882.3	876.1	870.0	866.3	860.1	858.9
45°	699.0	690.3	684.2	681.7	678.0	667.0	659.6	652.2	643.6	641.1	642.3
47.5°	542.7	534.0	531.6	525.4	519.3	513.1	508.2	499.6	498.3	493.4	498.3
50°	418.4	415.9	412.2	409.8	406.1	401.1	396.2	391.3	388.8	388.8	390.1
52.5°	324.9	326.1	322.4	318.7	316.3	316.3	310.1	308.9	308.9	303.9	308.9
55°	248.6	247.3	248.6	246.1	246.1	242.4	242.4	238.7	238.7	235.0	237.5
57.5°	182.1	184.6	182.1	183.4	185.8	182.1	180.9	177.2	179.7	177.2	178.4
60°	141.5	141.5	141.5	140.3	140.3	139.0	139.0	137.8	137.8	135.3	137.8
62.5°	104.6	105.8	105.8	105.8	107.1	105.8	104.6	105.8	104.6	104.6	105.8
65°	68.9	70.1	70.1	68.9	71.4	68.9	70.1	71.4	72.6	71.4	72.6
67.5°	46.7	46.7	48.0	49.2	48.0	49.2	50.4	49.2	50.4	52.9	50.4
70°	34.4	35.7	35.7	34.4	33.2	34.4	33.2	36.9	36.9	36.9	39.4
72.5°	22.1	22.1	20.9	20.9	20.9	20.9	20.9	24.6	22.1	20.9	23.4
75°	12.3	13.5	13.5	9.8	11.1	13.5	9.8	11.1	14.8	12.3	14.8
77.5°	7.4	7.4	7.4	7.4	7.4	7.4	9.8	8.6	8.6	8.6	9.8
80°	6.1	4.9	4.9	3.7	4.9	4.9	4.9	7.4	6.1	6.1	7.4
82.5°	2.5	2.5	1.2	0.0	2.5	2.5	2.5	2.5	2.5	2.5	4.9
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: P248938

CATALOG NUMBER: LD8B60D010 ER8B60940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1
2.5°	2517.6	2517.6	2516.4	2514.0	2509.0	2509.0	2507.8	2504.1	2501.7	2500.4	2500.4
5°	2505.3	2500.4	2495.5	2482.0	2482.0	2479.5	2472.2	2467.2	2464.8	2458.6	2456.2
7.5°	2494.3	2479.5	2470.9	2462.3	2451.2	2446.3	2437.7	2434.0	2425.4	2419.2	2415.5
10°	2467.2	2457.4	2446.3	2432.8	2424.1	2414.3	2404.4	2397.1	2386.0	2379.8	2374.9
12.5°	2448.8	2434.0	2424.1	2409.4	2394.6	2386.0	2372.5	2363.9	2352.8	2340.5	2333.1
15°	2431.5	2415.5	2402.0	2386.0	2370.0	2360.2	2344.2	2334.3	2318.3	2306.0	2297.4
17.5°	2405.7	2392.1	2377.4	2357.7	2342.9	2330.6	2313.4	2301.1	2286.3	2270.3	2261.7
20°	2378.6	2362.6	2347.9	2328.2	2313.4	2298.6	2281.4	2267.9	2250.6	2235.9	2226.1
22.5°	2342.9	2324.5	2312.2	2292.5	2275.2	2259.3	2243.3	2227.3	2211.3	2199.0	2187.9
25°	2291.2	2271.5	2258.0	2242.0	2226.1	2213.7	2194.0	2184.2	2168.2	2157.1	2146.0
27.5°	2217.4	2202.7	2190.3	2174.3	2160.8	2151.0	2136.2	2126.4	2112.8	2103.0	2094.4
30°	2109.2	2096.8	2085.8	2069.7	2059.9	2051.3	2037.7	2029.1	2019.3	2008.2	2005.8
32.5°	1963.9	1954.1	1943.0	1931.9	1924.5	1919.6	1908.5	1903.6	1893.8	1887.6	1881.5
35°	1744.9	1736.3	1730.1	1725.2	1722.7	1724.0	1721.5	1726.4	1728.9	1727.7	1728.9
37.5°	1458.2	1453.2	1455.7	1459.4	1471.7	1487.7	1502.5	1524.6	1539.4	1554.2	1567.7
40°	1138.2	1141.9	1151.8	1173.9	1205.9	1241.6	1274.9	1316.7	1358.5	1388.1	1415.1
42.5°	858.9	870.0	894.6	926.6	974.6	1027.5	1079.2	1140.7	1191.2	1240.4	1274.9
45°	646.0	660.8	692.8	737.1	790.0	851.5	916.8	985.6	1046.0	1096.4	1134.6
47.5°	503.3	516.8	548.8	595.6	660.8	724.8	792.5	863.8	926.6	975.8	1009.0
50°	397.4	414.7	443.0	492.2	557.4	625.1	695.3	765.4	824.5	866.3	895.8
52.5°	312.6	328.6	355.6	407.3	473.8	541.4	606.6	675.6	727.2	767.8	787.6
55°	242.4	257.2	285.5	328.6	391.3	457.8	523.0	582.1	630.0	659.6	678.0
57.5°	184.6	195.7	215.4	258.4	315.0	376.5	431.9	491.0	527.9	548.8	561.1
60°	140.3	148.9	169.8	203.1	254.7	307.6	354.4	398.7	428.2	445.5	457.8
62.5°	105.8	115.7	130.4	158.7	198.1	241.2	280.5	313.8	338.4	349.5	358.1
65°	72.6	80.0	91.1	113.2	146.4	177.2	208.0	232.6	248.6	260.9	265.8
67.5°	54.1	59.1	65.2	82.5	105.8	130.4	151.3	168.6	185.8	190.7	199.4
70°	40.6	44.3	50.4	62.8	76.3	93.5	110.8	120.6	132.9	141.5	144.0
72.5°	25.8	27.0	33.2	40.6	51.7	62.8	73.8	82.5	89.9	94.8	97.2
75°	14.8	22.1	22.1	29.5	36.9	41.8	49.2	55.4	59.1	62.8	62.8
77.5°	9.8	13.5	14.8	18.4	22.1	28.3	34.4	38.1	41.8	43.1	43.1
80°	8.6	9.8	9.8	13.5	16.0	20.9	24.6	25.8	28.3	29.5	32.0
82.5°	3.7	4.9	6.1	9.8	11.1	11.1	14.8	16.0	18.4	19.7	19.7
85°	1.2	2.5	2.5	3.7	6.1	7.4	8.6	9.8	11.1	11.1	12.3
87.5°	1.2	1.2	0.0	1.2	2.5	2.5	4.9	4.9	4.9	7.4	7.4
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: P248938

CATALOG NUMBER: LD8B60D010 ER8B60940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1
2.5°	2498.0	2499.2	2494.3	2493.1	2490.6	2491.8	2494.3
5°	2452.5	2453.7	2448.8	2443.8	2443.8	2442.6	2443.8
7.5°	2409.4	2410.6	2403.2	2400.7	2395.8	2397.1	2397.1
10°	2366.3	2366.3	2355.3	2354.0	2350.3	2349.1	2349.1
12.5°	2324.5	2320.8	2312.2	2307.2	2309.7	2302.3	2302.3
15°	2287.5	2281.4	2270.3	2266.6	2260.5	2258.0	2258.0
17.5°	2249.4	2244.5	2234.7	2227.3	2219.9	2218.7	2219.9
20°	2212.5	2207.6	2195.3	2190.3	2184.2	2184.2	2181.7
22.5°	2175.6	2170.6	2159.6	2155.9	2147.3	2147.3	2148.5
25°	2137.4	2133.7	2121.4	2119.0	2117.8	2112.8	2115.3
27.5°	2085.8	2083.3	2073.4	2069.7	2064.8	2063.6	2066.0
30°	1991.0	1987.3	1979.9	1976.2	1967.6	1968.9	1971.3
32.5°	1872.9	1868.0	1858.1	1854.4	1847.0	1844.6	1845.8
35°	1725.2	1721.5	1712.9	1712.9	1705.5	1703.0	1705.5
37.5°	1575.1	1578.7	1575.1	1578.7	1575.1	1573.8	1575.1
40°	1433.6	1447.1	1449.5	1463.1	1458.2	1465.5	1464.3
42.5°	1298.2	1320.3	1329.0	1340.0	1337.6	1342.5	1346.2
45°	1161.6	1180.1	1188.7	1196.1	1197.3	1199.8	1201.0
47.5°	1032.4	1047.2	1048.4	1057.0	1055.8	1055.8	1059.5
50°	911.8	921.7	924.1	930.3	925.4	922.9	924.1
52.5°	799.9	809.7	807.2	809.7	803.6	801.1	802.3
55°	685.4	690.3	690.3	690.3	683.0	683.0	683.0
57.5°	568.5	569.8	567.3	568.5	567.3	559.9	558.7
60°	461.5	461.5	460.2	461.5	457.8	454.1	454.1
62.5°	360.5	363.0	367.9	363.0	360.5	363.0	359.3
65°	269.5	274.4	273.2	275.6	274.4	274.4	271.9
67.5°	203.1	204.3	205.5	206.8	206.8	206.8	206.8
70°	148.9	152.6	151.3	151.3	151.3	151.3	158.7
72.5°	99.7	104.6	103.4	105.8	105.8	108.3	105.8
75°	67.7	72.6	70.1	73.8	72.6	70.1	76.3
77.5°	45.5	48.0	49.2	50.4	49.2	48.0	49.2
80°	32.0	34.4	33.2	34.4	34.4	34.4	35.7
82.5°	19.7	23.4	22.1	23.4	22.1	23.4	23.4
85°	13.5	14.8	12.3	14.8	13.5	13.5	16.0
87.5°	8.6	7.4	7.4	8.6	7.4	8.6	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)