

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: P248965

Luminaire Tested: **LD8B60D010 ER8B60930 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248965
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 ER8B60930 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3935.8 lumens
Efficiency: N/A
Efficacy: 66.1 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

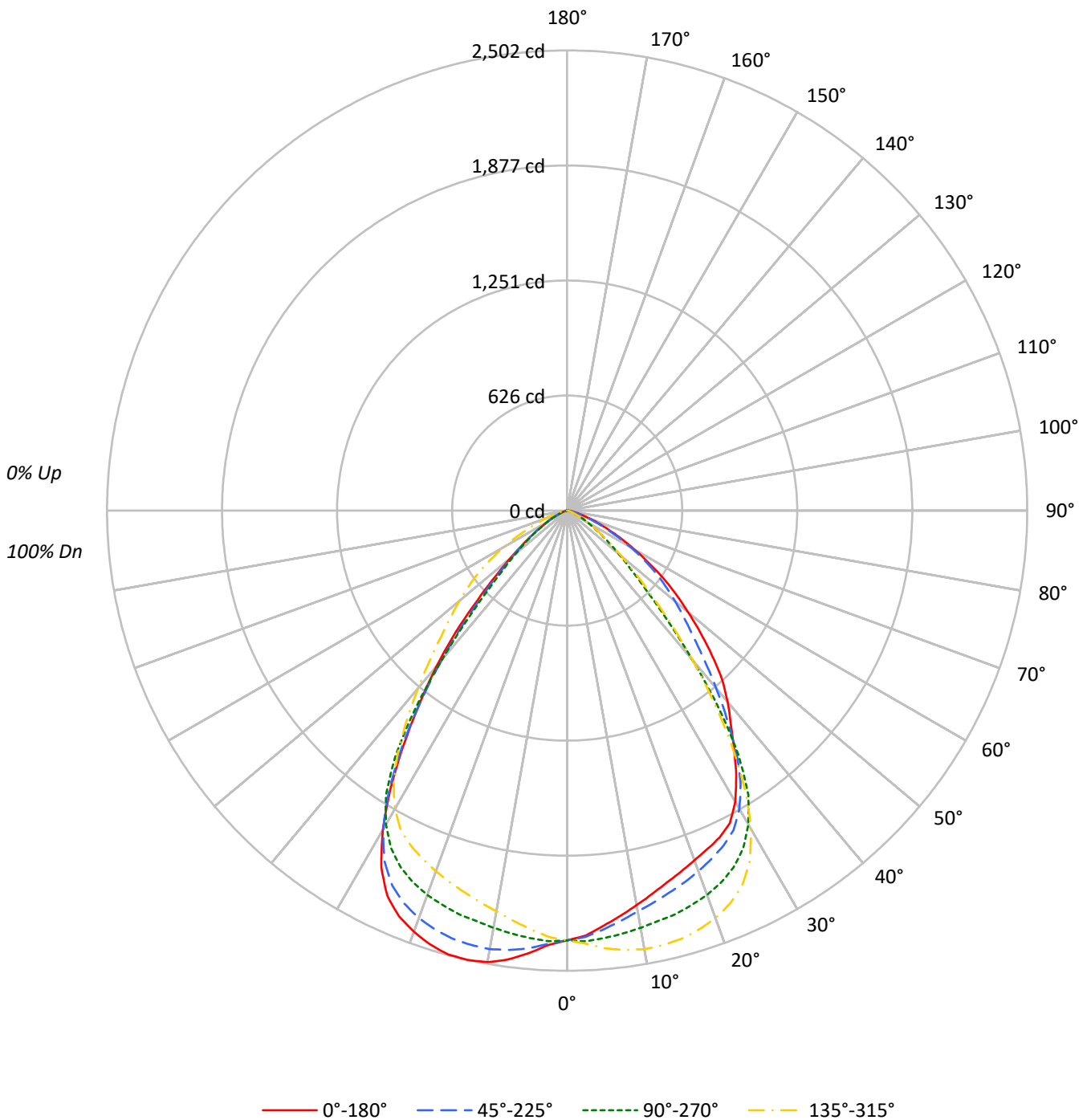
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	222.4	5.7
10°-20°	644.0	16.4
20°-30°	975.2	24.8
30°-40°	977.4	24.8
40°-50°	613.7	15.6
50°-60°	327.1	8.3
60°-70°	134.5	3.4
70°-80°	35.5	0.9
80°-90°	6.0	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°	1841.6	46.8
0°-40°	2819.0	71.6
0°-60°	3759.8	95.5
0°-90°	3935.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3935.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2337	2337	2337	2337	2337	
5°	2266	2333	2416	2333	2266	214
15°	2094	2273	2499	2273	2094	592
25°	1961	2140	2313	2140	1961	899
35°	1581	1626	1542	1626	1581	991
45°	1114	596	689	596	1114	856
55°	633	220	233	220	633	565
65°	252	67	62	67	252	262
75°	71	14	11	14	71	80
85°	15	0	1	0	15	16
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°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2312.6	2310.4	2309.1	2311.5	2312.6	2317.2	2316.1	2318.3	2318.3	2319.5	2321.7
5°	2265.9	2264.6	2265.9	2265.9	2270.4	2275.0	2273.8	2277.3	2279.6	2285.3	2287.5
7.5°	2222.5	2222.5	2221.4	2225.9	2228.2	2235.0	2233.9	2239.6	2243.0	2248.7	2256.7
10°	2178.0	2178.0	2179.1	2182.6	2183.7	2193.9	2193.9	2202.0	2206.5	2212.2	2222.5
12.5°	2134.6	2134.6	2141.6	2139.2	2143.8	2151.8	2155.1	2163.2	2170.0	2181.5	2191.7
15°	2093.6	2093.6	2095.8	2101.5	2105.0	2115.2	2120.9	2130.1	2138.1	2149.5	2164.3
17.5°	2058.2	2057.0	2058.2	2065.1	2071.9	2081.0	2085.6	2096.9	2105.0	2119.8	2133.5
20°	2022.8	2025.1	2025.1	2030.8	2035.4	2046.8	2051.3	2063.9	2073.1	2086.7	2102.7
22.5°	1992.0	1990.9	1990.9	1998.9	2002.3	2012.5	2017.1	2028.6	2038.8	2050.2	2065.1
25°	1961.2	1958.9	1963.5	1964.7	1966.9	1978.3	1981.7	1989.8	2000.0	2010.3	2025.1
27.5°	1915.6	1913.3	1914.4	1919.0	1922.4	1931.6	1933.8	1941.8	1949.8	1958.9	1971.5
30°	1827.7	1825.4	1824.3	1832.3	1835.7	1842.6	1846.0	1859.7	1862.0	1872.2	1881.4
32.5°	1711.3	1710.2	1712.6	1719.3	1722.8	1731.9	1736.4	1744.5	1750.1	1755.8	1765.0
35°	1581.3	1579.0	1581.3	1588.1	1588.1	1596.2	1599.6	1602.9	1601.8	1602.9	1600.7
37.5°	1460.4	1459.2	1460.4	1463.8	1460.4	1463.8	1460.4	1453.5	1441.0	1427.3	1413.6
40°	1357.6	1358.8	1352.0	1356.5	1344.0	1341.7	1329.2	1312.0	1286.9	1259.6	1220.8
42.5°	1248.1	1244.8	1240.2	1242.4	1232.2	1224.1	1203.6	1182.0	1150.0	1104.4	1057.6
45°	1113.5	1112.4	1110.1	1109.0	1102.2	1094.1	1076.9	1051.9	1016.5	969.8	913.8
47.5°	982.3	978.9	978.9	980.0	972.0	970.9	957.2	935.6	904.8	859.1	801.0
50°	856.8	855.7	858.0	862.5	856.8	854.5	845.5	830.5	803.2	764.4	709.6
52.5°	743.9	742.8	745.0	750.7	748.4	750.7	741.7	730.2	711.9	674.3	626.4
55°	633.3	633.3	633.3	640.0	640.0	640.0	635.5	628.7	611.5	584.2	539.6
57.5°	518.0	519.1	526.0	527.1	526.0	528.2	527.1	520.3	508.8	489.4	455.2
60°	421.0	421.0	424.4	427.9	426.7	427.9	427.9	424.4	413.0	397.1	369.7
62.5°	333.2	336.5	334.3	336.5	341.1	336.5	334.3	332.0	324.1	313.8	290.9
65°	252.1	254.5	254.5	255.6	253.2	254.5	249.9	246.4	241.9	230.5	215.7
67.5°	191.7	191.7	191.7	191.7	190.6	189.3	188.2	184.9	176.9	172.3	156.3
70°	147.2	140.3	140.3	140.3	140.3	141.5	138.1	133.5	131.2	123.2	111.8
72.5°	98.1	100.4	98.1	98.1	95.8	97.0	92.4	90.1	87.9	83.3	76.5
75°	70.7	65.0	67.3	68.5	65.0	67.3	62.8	58.2	58.2	54.7	51.3
77.5°	45.6	44.5	45.6	46.7	45.6	44.5	42.3	39.9	39.9	38.8	35.3
80°	33.1	31.9	31.9	31.9	30.8	31.9	29.7	29.7	27.4	26.2	24.0
82.5°	21.7	21.7	20.5	21.7	20.5	21.7	18.3	18.3	18.3	17.0	14.8
85°	14.8	12.6	12.6	13.7	11.4	13.7	12.6	11.4	10.3	10.3	9.1
87.5°	6.8	8.0	6.8	8.0	6.8	6.8	8.0	6.8	6.8	4.6	4.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2325.2	2326.3	2326.3	2330.9	2333.1	2334.3	2334.3	2343.5	2340.0	2342.3	2344.6
5°	2292.1	2298.9	2301.2	2301.2	2313.7	2318.3	2322.8	2333.1	2334.3	2341.1	2349.2
7.5°	2260.2	2268.1	2272.7	2282.9	2291.0	2298.9	2312.6	2319.5	2326.3	2335.5	2345.7
10°	2229.3	2238.5	2247.6	2255.6	2268.1	2278.4	2287.5	2303.4	2311.5	2324.1	2337.7
12.5°	2199.7	2212.2	2220.3	2233.9	2247.6	2256.7	2270.4	2285.3	2297.8	2310.4	2326.3
15°	2173.4	2188.3	2197.4	2212.2	2227.1	2239.6	2254.4	2272.7	2281.8	2296.7	2311.5
17.5°	2144.9	2161.0	2172.3	2186.0	2204.2	2217.9	2230.5	2248.7	2260.2	2276.1	2293.2
20°	2115.2	2131.2	2144.9	2158.6	2176.9	2190.5	2205.3	2223.6	2236.2	2252.1	2265.9
22.5°	2079.9	2094.7	2109.5	2125.5	2143.8	2155.1	2172.3	2188.3	2202.0	2216.8	2230.5
25°	2034.3	2052.6	2063.9	2078.7	2093.6	2106.1	2124.4	2140.3	2151.8	2165.4	2178.0
27.5°	1980.6	1994.4	2003.5	2016.0	2030.8	2042.2	2055.9	2071.9	2083.3	2095.8	2105.0
30°	1889.3	1901.9	1909.8	1919.0	1933.8	1944.2	1955.6	1970.4	1978.3	1987.4	1995.5
32.5°	1769.5	1779.8	1784.4	1791.2	1801.6	1811.8	1821.0	1833.4	1836.9	1842.6	1842.6
35°	1596.2	1598.4	1597.3	1599.6	1604.2	1609.9	1617.8	1625.8	1630.4	1630.4	1626.9
37.5°	1393.1	1379.4	1364.6	1353.2	1349.7	1347.4	1352.0	1355.4	1360.0	1362.2	1356.5
40°	1182.0	1151.2	1118.1	1088.4	1067.9	1058.8	1055.3	1057.6	1057.6	1065.6	1065.6
42.5°	1000.6	952.6	903.6	859.1	829.4	806.7	796.4	796.4	797.5	803.2	806.7
45°	849.9	789.5	732.5	683.5	642.3	612.6	599.0	595.6	594.5	596.7	604.7
47.5°	734.7	672.0	612.6	552.2	508.8	479.2	466.7	462.1	457.5	462.1	463.2
50°	644.6	579.6	516.9	456.4	410.7	384.5	368.5	361.6	360.5	360.5	362.9
52.5°	562.4	502.0	439.3	377.7	329.7	304.7	289.8	286.4	281.8	286.4	286.4
55°	484.8	424.4	362.9	304.7	264.7	238.4	224.8	220.2	217.9	221.3	221.3
57.5°	400.5	349.1	292.1	239.6	199.7	181.4	171.2	165.5	164.2	166.6	164.2
60°	328.6	285.3	236.2	188.2	157.5	138.1	130.0	127.8	125.4	127.8	127.8
62.5°	260.1	223.6	183.6	147.2	121.0	107.3	98.1	98.1	97.0	97.0	98.1
65°	192.8	164.2	135.8	104.9	84.4	74.1	67.3	67.3	66.1	67.3	66.1
67.5°	140.3	121.0	98.1	76.5	60.5	54.7	50.2	46.7	49.1	46.7	45.6
70°	102.7	86.7	70.7	58.2	46.7	41.1	37.7	36.4	34.2	34.2	34.2
72.5°	68.5	58.2	47.9	37.7	30.8	25.1	24.0	21.7	19.4	20.5	22.9
75°	45.6	38.8	34.2	27.4	20.5	20.5	13.7	13.7	11.4	13.7	10.3
77.5°	31.9	26.2	20.5	17.0	13.7	12.6	9.1	9.1	8.0	8.0	8.0
80°	22.9	19.4	14.8	12.6	9.1	9.1	8.0	6.8	5.7	5.7	6.8
82.5°	13.7	10.3	10.3	9.1	5.7	4.6	3.5	4.6	2.4	2.4	2.4
85°	8.0	6.8	5.7	3.5	2.4	2.4	1.1	0.0	1.1	1.1	0.0
87.5°	4.6	2.4	2.4	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2350.3	2349.2	2351.4	2351.4	2358.2	2357.1	2360.5	2360.5	2358.2	2359.4	2364.0
5°	2358.2	2361.7	2368.6	2374.3	2384.5	2389.1	2394.8	2400.5	2401.6	2405.0	2408.5
7.5°	2358.2	2369.7	2377.6	2388.0	2401.6	2409.6	2422.1	2432.5	2436.9	2442.7	2449.5
10°	2353.7	2365.1	2379.9	2391.3	2408.5	2421.0	2433.6	2449.5	2456.3	2465.5	2474.6
12.5°	2344.6	2357.1	2373.0	2388.0	2407.3	2418.7	2434.7	2449.5	2459.8	2472.4	2482.7
15°	2330.9	2345.7	2360.5	2375.4	2395.9	2409.6	2424.4	2441.5	2451.9	2465.5	2474.6
17.5°	2309.1	2325.2	2338.9	2352.5	2371.9	2388.0	2401.6	2417.5	2427.9	2439.3	2451.9
20°	2282.9	2297.8	2312.6	2324.1	2343.5	2357.1	2371.9	2386.8	2394.8	2397.0	2416.4
22.5°	2249.8	2260.2	2271.5	2289.8	2301.2	2313.7	2327.4	2341.1	2349.2	2361.7	2368.6
25°	2195.0	2205.3	2217.9	2225.9	2239.6	2249.8	2263.5	2278.4	2282.9	2292.1	2298.9
27.5°	2118.7	2124.4	2130.1	2136.9	2144.9	2150.6	2158.6	2165.4	2170.0	2174.5	2179.1
30°	1997.7	1997.7	1997.7	1993.1	1996.6	2000.0	2001.1	2000.0	2000.0	1998.9	1998.9
32.5°	1838.0	1828.9	1818.6	1809.5	1806.0	1801.6	1799.2	1795.7	1790.1	1786.6	1787.8
35°	1622.3	1601.8	1589.2	1577.9	1568.7	1561.9	1558.5	1555.1	1553.9	1549.3	1544.7
37.5°	1353.2	1338.2	1329.2	1322.3	1314.4	1307.5	1308.7	1309.8	1313.1	1310.9	1312.0
40°	1067.9	1064.5	1067.9	1059.9	1057.6	1059.9	1065.6	1073.6	1078.2	1082.8	1090.7
42.5°	812.3	818.0	826.1	826.1	829.4	834.0	840.9	853.4	860.3	868.2	877.4
45°	611.5	618.3	628.7	632.0	634.4	640.0	648.1	658.3	662.8	669.7	677.6
47.5°	471.2	475.8	481.5	487.2	492.9	495.1	503.1	503.1	508.8	513.4	515.7
50°	367.4	371.9	376.4	379.9	382.3	385.6	387.9	391.3	392.5	394.7	395.8
52.5°	287.5	293.3	293.3	295.5	298.9	302.3	301.2	302.3	303.5	303.5	306.9
55°	224.8	224.8	228.2	228.2	230.5	229.4	230.5	230.5	230.5	230.5	231.6
57.5°	167.7	168.8	172.3	169.9	168.8	171.2	168.8	171.2	169.9	172.3	168.8
60°	128.9	128.9	130.0	130.0	131.2	131.2	131.2	130.0	130.0	128.9	128.9
62.5°	97.0	98.1	99.3	98.1	98.1	98.1	97.0	97.0	95.8	94.7	94.7
65°	65.0	63.9	66.1	63.9	65.0	65.0	63.9	65.0	61.7	62.8	61.7
67.5°	46.7	45.6	44.5	45.6	44.5	43.4	43.4	44.5	45.6	42.3	42.3
70°	30.8	31.9	30.8	31.9	33.1	33.1	31.9	30.8	31.9	29.7	30.8
72.5°	19.4	19.4	19.4	19.4	19.4	20.5	20.5	20.5	18.3	18.3	17.0
75°	9.1	12.6	10.3	9.1	12.6	12.6	11.4	11.4	10.3	10.3	10.3
77.5°	9.1	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.7	6.8	5.7
80°	4.6	4.6	4.6	3.5	4.6	4.6	5.7	4.6	4.6	3.5	5.7
82.5°	2.4	2.4	2.4	0.0	1.1	2.4	2.4	1.1	2.4	2.4	1.1
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: P248965

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2362.8	2361.7	2362.8	2364.0	2362.8	2361.7	2362.8	2364.0	2359.4	2358.2	2360.5
5°	2413.1	2413.1	2415.3	2416.4	2415.3	2413.1	2413.1	2408.5	2405.0	2401.6	2400.5
7.5°	2456.3	2458.7	2460.9	2462.1	2460.9	2458.7	2456.3	2449.5	2442.7	2436.9	2432.5
10°	2482.7	2486.0	2490.6	2492.9	2490.6	2486.0	2482.7	2474.6	2465.5	2456.3	2449.5
12.5°	2494.0	2497.5	2503.2	2502.1	2503.2	2497.5	2494.0	2482.7	2472.4	2459.8	2449.5
15°	2486.0	2490.6	2496.2	2498.6	2496.2	2490.6	2486.0	2474.6	2465.5	2451.9	2441.5
17.5°	2460.9	2467.8	2471.2	2474.6	2471.2	2467.8	2460.9	2451.9	2439.3	2427.9	2417.5
20°	2426.7	2431.3	2435.8	2436.9	2435.8	2431.3	2426.7	2416.4	2397.0	2394.8	2386.8
22.5°	2377.6	2381.1	2391.3	2388.0	2391.3	2381.1	2377.6	2368.6	2361.7	2349.2	2341.1
25°	2306.9	2310.4	2311.5	2312.6	2311.5	2310.4	2306.9	2298.9	2292.1	2282.9	2278.4
27.5°	2184.8	2184.8	2187.1	2188.3	2187.1	2184.8	2184.8	2179.1	2174.5	2170.0	2165.4
30°	2000.0	2000.0	2000.0	2005.7	2000.0	2000.0	2000.0	1998.9	1998.9	2000.0	2000.0
32.5°	1786.6	1784.4	1782.2	1784.4	1782.2	1784.4	1786.6	1787.8	1786.6	1790.1	1795.7
35°	1544.7	1543.6	1547.1	1542.5	1547.1	1543.6	1544.7	1544.7	1549.3	1553.9	1555.1
37.5°	1313.1	1310.9	1315.5	1310.9	1315.5	1310.9	1313.1	1312.0	1310.9	1313.1	1309.8
40°	1093.0	1095.2	1095.2	1104.4	1095.2	1095.2	1093.0	1090.7	1082.8	1078.2	1073.6
42.5°	881.9	888.7	886.5	893.3	886.5	888.7	881.9	877.4	868.2	860.3	853.4
45°	682.2	686.8	686.8	689.1	686.8	686.8	682.2	677.6	669.7	662.8	658.3
47.5°	523.6	523.6	523.6	524.9	523.6	523.6	523.6	515.7	513.4	508.8	503.1
50°	398.2	399.3	400.5	401.7	400.5	399.3	398.2	395.8	394.7	392.5	391.3
52.5°	305.8	306.9	304.7	306.9	304.7	306.9	305.8	306.9	303.5	303.5	302.3
55°	231.6	230.5	231.6	232.7	231.6	230.5	231.6	231.6	230.5	230.5	230.5
57.5°	169.9	167.7	167.7	167.7	167.7	167.7	169.9	168.8	172.3	169.9	171.2
60°	126.7	127.8	127.8	128.9	127.8	127.8	126.7	128.9	128.9	130.0	130.0
62.5°	93.5	97.0	94.7	97.0	94.7	97.0	93.5	94.7	94.7	95.8	97.0
65°	60.5	60.5	60.5	61.7	60.5	60.5	60.5	61.7	62.8	61.7	65.0
67.5°	41.1	42.3	44.5	43.4	44.5	42.3	41.1	42.3	42.3	45.6	44.5
70°	33.1	29.7	29.7	33.1	29.7	29.7	33.1	30.8	29.7	31.9	30.8
72.5°	19.4	17.0	19.4	19.4	19.4	17.0	19.4	17.0	18.3	18.3	20.5
75°	10.3	9.1	8.0	11.4	8.0	9.1	10.3	10.3	10.3	10.3	11.4
77.5°	6.8	5.7	8.0	8.0	8.0	5.7	6.8	5.7	6.8	5.7	6.8
80°	3.5	4.6	3.5	5.7	3.5	4.6	3.5	5.7	3.5	4.6	4.6
82.5°	1.1	2.4	2.4	2.4	2.4	2.4	1.1	1.1	2.4	2.4	1.1
85°	0.0	2.4	1.1	1.1	1.1	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	1.1	0.0	0.0	1.1	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: P248965

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2360.5	2357.1	2358.2	2351.4	2351.4	2349.2	2350.3	2344.6	2342.3	2340.0	2343.5
5°	2394.8	2389.1	2384.5	2374.3	2368.6	2361.7	2358.2	2349.2	2341.1	2334.3	2333.1
7.5°	2422.1	2409.6	2401.6	2388.0	2377.6	2369.7	2358.2	2345.7	2335.5	2326.3	2319.5
10°	2433.6	2421.0	2408.5	2391.3	2379.9	2365.1	2353.7	2337.7	2324.1	2311.5	2303.4
12.5°	2434.7	2418.7	2407.3	2388.0	2373.0	2357.1	2344.6	2326.3	2310.4	2297.8	2285.3
15°	2424.4	2409.6	2395.9	2375.4	2360.5	2345.7	2330.9	2311.5	2296.7	2281.8	2272.7
17.5°	2401.6	2388.0	2371.9	2352.5	2338.9	2325.2	2309.1	2293.2	2276.1	2260.2	2248.7
20°	2371.9	2357.1	2343.5	2324.1	2312.6	2297.8	2282.9	2265.9	2252.1	2236.2	2223.6
22.5°	2327.4	2313.7	2301.2	2289.8	2271.5	2260.2	2249.8	2230.5	2216.8	2202.0	2188.3
25°	2263.5	2249.8	2239.6	2225.9	2217.9	2205.3	2195.0	2178.0	2165.4	2151.8	2140.3
27.5°	2158.6	2150.6	2144.9	2136.9	2130.1	2124.4	2118.7	2105.0	2095.8	2083.3	2071.9
30°	2001.1	2000.0	1996.6	1993.1	1997.7	1997.7	1997.7	1995.5	1987.4	1978.3	1970.4
32.5°	1799.2	1801.6	1806.0	1809.5	1818.6	1828.9	1838.0	1842.6	1842.6	1836.9	1833.4
35°	1558.5	1561.9	1568.7	1577.9	1589.2	1601.8	1622.3	1626.9	1630.4	1630.4	1625.8
37.5°	1308.7	1307.5	1314.4	1322.3	1329.2	1338.2	1353.2	1356.5	1362.2	1360.0	1355.4
40°	1065.6	1059.9	1057.6	1059.9	1067.9	1064.5	1067.9	1065.6	1065.6	1057.6	1057.6
42.5°	840.9	834.0	829.4	826.1	826.1	818.0	812.3	806.7	803.2	797.5	796.4
45°	648.1	640.0	634.4	632.0	628.7	618.3	611.5	604.7	596.7	594.5	595.6
47.5°	503.1	495.1	492.9	487.2	481.5	475.8	471.2	463.2	462.1	457.5	462.1
50°	387.9	385.6	382.3	379.9	376.4	371.9	367.4	362.9	360.5	360.5	361.6
52.5°	301.2	302.3	298.9	295.5	293.3	293.3	287.5	286.4	286.4	281.8	286.4
55°	230.5	229.4	230.5	228.2	228.2	224.8	224.8	221.3	221.3	217.9	220.2
57.5°	168.8	171.2	168.8	169.9	172.3	168.8	167.7	164.2	166.6	164.2	165.5
60°	131.2	131.2	131.2	130.0	130.0	128.9	128.9	127.8	127.8	125.4	127.8
62.5°	97.0	98.1	98.1	98.1	99.3	98.1	97.0	98.1	97.0	97.0	98.1
65°	63.9	65.0	65.0	63.9	66.1	63.9	65.0	66.1	67.3	66.1	67.3
67.5°	43.4	43.4	44.5	45.6	44.5	45.6	46.7	45.6	46.7	49.1	46.7
70°	31.9	33.1	33.1	31.9	30.8	31.9	30.8	34.2	34.2	34.2	36.4
72.5°	20.5	20.5	19.4	19.4	19.4	19.4	19.4	22.9	20.5	19.4	21.7
75°	11.4	12.6	12.6	9.1	10.3	12.6	9.1	10.3	13.7	11.4	13.7
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	9.1	8.0	8.0	8.0	9.1
80°	5.7	4.6	4.6	3.5	4.6	4.6	4.6	6.8	5.7	5.7	6.8
82.5°	2.4	2.4	1.1	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	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: P248965

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2334.3	2334.3	2333.1	2330.9	2326.3	2326.3	2325.2	2321.7	2319.5	2318.3	2318.3
5°	2322.8	2318.3	2313.7	2301.2	2301.2	2298.9	2292.1	2287.5	2285.3	2279.6	2277.3
7.5°	2312.6	2298.9	2291.0	2282.9	2272.7	2268.1	2260.2	2256.7	2248.7	2243.0	2239.6
10°	2287.5	2278.4	2268.1	2255.6	2247.6	2238.5	2229.3	2222.5	2212.2	2206.5	2202.0
12.5°	2270.4	2256.7	2247.6	2233.9	2220.3	2212.2	2199.7	2191.7	2181.5	2170.0	2163.2
15°	2254.4	2239.6	2227.1	2212.2	2197.4	2188.3	2173.4	2164.3	2149.5	2138.1	2130.1
17.5°	2230.5	2217.9	2204.2	2186.0	2172.3	2161.0	2144.9	2133.5	2119.8	2105.0	2096.9
20°	2205.3	2190.5	2176.9	2158.6	2144.9	2131.2	2115.2	2102.7	2086.7	2073.1	2063.9
22.5°	2172.3	2155.1	2143.8	2125.5	2109.5	2094.7	2079.9	2065.1	2050.2	2038.8	2028.6
25°	2124.4	2106.1	2093.6	2078.7	2063.9	2052.6	2034.3	2025.1	2010.3	2000.0	1989.8
27.5°	2055.9	2042.2	2030.8	2016.0	2003.5	1994.4	1980.6	1971.5	1958.9	1949.8	1941.8
30°	1955.6	1944.2	1933.8	1919.0	1909.8	1901.9	1889.3	1881.4	1872.2	1862.0	1859.7
32.5°	1821.0	1811.8	1801.6	1791.2	1784.4	1779.8	1769.5	1765.0	1755.8	1750.1	1744.5
35°	1617.8	1609.9	1604.2	1599.6	1597.3	1598.4	1596.2	1600.7	1602.9	1601.8	1602.9
37.5°	1352.0	1347.4	1349.7	1353.2	1364.6	1379.4	1393.1	1413.6	1427.3	1441.0	1453.5
40°	1055.3	1058.8	1067.9	1088.4	1118.1	1151.2	1182.0	1220.8	1259.6	1286.9	1312.0
42.5°	796.4	806.7	829.4	859.1	903.6	952.6	1000.6	1057.6	1104.4	1150.0	1182.0
45°	599.0	612.6	642.3	683.5	732.5	789.5	849.9	913.8	969.8	1016.5	1051.9
47.5°	466.7	479.2	508.8	552.2	612.6	672.0	734.7	801.0	859.1	904.8	935.6
50°	368.5	384.5	410.7	456.4	516.9	579.6	644.6	709.6	764.4	803.2	830.5
52.5°	289.8	304.7	329.7	377.7	439.3	502.0	562.4	626.4	674.3	711.9	730.2
55°	224.8	238.4	264.7	304.7	362.9	424.4	484.8	539.6	584.2	611.5	628.7
57.5°	171.2	181.4	199.7	239.6	292.1	349.1	400.5	455.2	489.4	508.8	520.3
60°	130.0	138.1	157.5	188.2	236.2	285.3	328.6	369.7	397.1	413.0	424.4
62.5°	98.1	107.3	121.0	147.2	183.6	223.6	260.1	290.9	313.8	324.1	332.0
65°	67.3	74.1	84.4	104.9	135.8	164.2	192.8	215.7	230.5	241.9	246.4
67.5°	50.2	54.7	60.5	76.5	98.1	121.0	140.3	156.3	172.3	176.9	184.9
70°	37.7	41.1	46.7	58.2	70.7	86.7	102.7	111.8	123.2	131.2	133.5
72.5°	24.0	25.1	30.8	37.7	47.9	58.2	68.5	76.5	83.3	87.9	90.1
75°	13.7	20.5	20.5	27.4	34.2	38.8	45.6	51.3	54.7	58.2	58.2
77.5°	9.1	12.6	13.7	17.0	20.5	26.2	31.9	35.3	38.8	39.9	39.9
80°	8.0	9.1	9.1	12.6	14.8	19.4	22.9	24.0	26.2	27.4	29.7
82.5°	3.5	4.6	5.7	9.1	10.3	10.3	13.7	14.8	17.0	18.3	18.3
85°	1.1	2.4	2.4	3.5	5.7	6.8	8.0	9.1	10.3	10.3	11.4
87.5°	1.1	1.1	0.0	1.1	2.4	2.4	4.6	4.6	4.6	6.8	6.8
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: P248965

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2316.1	2317.2	2312.6	2311.5	2309.1	2310.4	2312.6
5°	2273.8	2275.0	2270.4	2265.9	2265.9	2264.6	2265.9
7.5°	2233.9	2235.0	2228.2	2225.9	2221.4	2222.5	2222.5
10°	2193.9	2193.9	2183.7	2182.6	2179.1	2178.0	2178.0
12.5°	2155.1	2151.8	2143.8	2139.2	2141.6	2134.6	2134.6
15°	2120.9	2115.2	2105.0	2101.5	2095.8	2093.6	2093.6
17.5°	2085.6	2081.0	2071.9	2065.1	2058.2	2057.0	2058.2
20°	2051.3	2046.8	2035.4	2030.8	2025.1	2025.1	2022.8
22.5°	2017.1	2012.5	2002.3	1998.9	1990.9	1990.9	1992.0
25°	1981.7	1978.3	1966.9	1964.7	1963.5	1958.9	1961.2
27.5°	1933.8	1931.6	1922.4	1919.0	1914.4	1913.3	1915.6
30°	1846.0	1842.6	1835.7	1832.3	1824.3	1825.4	1827.7
32.5°	1736.4	1731.9	1722.8	1719.3	1712.6	1710.2	1711.3
35°	1599.6	1596.2	1588.1	1588.1	1581.3	1579.0	1581.3
37.5°	1460.4	1463.8	1460.4	1463.8	1460.4	1459.2	1460.4
40°	1329.2	1341.7	1344.0	1356.5	1352.0	1358.8	1357.6
42.5°	1203.6	1224.1	1232.2	1242.4	1240.2	1244.8	1248.1
45°	1076.9	1094.1	1102.2	1109.0	1110.1	1112.4	1113.5
47.5°	957.2	970.9	972.0	980.0	978.9	978.9	982.3
50°	845.5	854.5	856.8	862.5	858.0	855.7	856.8
52.5°	741.7	750.7	748.4	750.7	745.0	742.8	743.9
55°	635.5	640.0	640.0	640.0	633.3	633.3	633.3
57.5°	527.1	528.2	526.0	527.1	526.0	519.1	518.0
60°	427.9	427.9	426.7	427.9	424.4	421.0	421.0
62.5°	334.3	336.5	341.1	336.5	334.3	336.5	333.2
65°	249.9	254.5	253.2	255.6	254.5	254.5	252.1
67.5°	188.2	189.3	190.6	191.7	191.7	191.7	191.7
70°	138.1	141.5	140.3	140.3	140.3	140.3	147.2
72.5°	92.4	97.0	95.8	98.1	98.1	100.4	98.1
75°	62.8	67.3	65.0	68.5	67.3	65.0	70.7
77.5°	42.3	44.5	45.6	46.7	45.6	44.5	45.6
80°	29.7	31.9	30.8	31.9	31.9	31.9	33.1
82.5°	18.3	21.7	20.5	21.7	20.5	21.7	21.7
85°	12.6	13.7	11.4	13.7	12.6	12.6	14.8
87.5°	8.0	6.8	6.8	8.0	6.8	8.0	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)