

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: P248956

Luminaire Tested: **LD8B60D010 ER8B60927 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248956
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 ER8B60927 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3732.8 lumens
Efficiency: N/A
Efficacy: 62.7 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

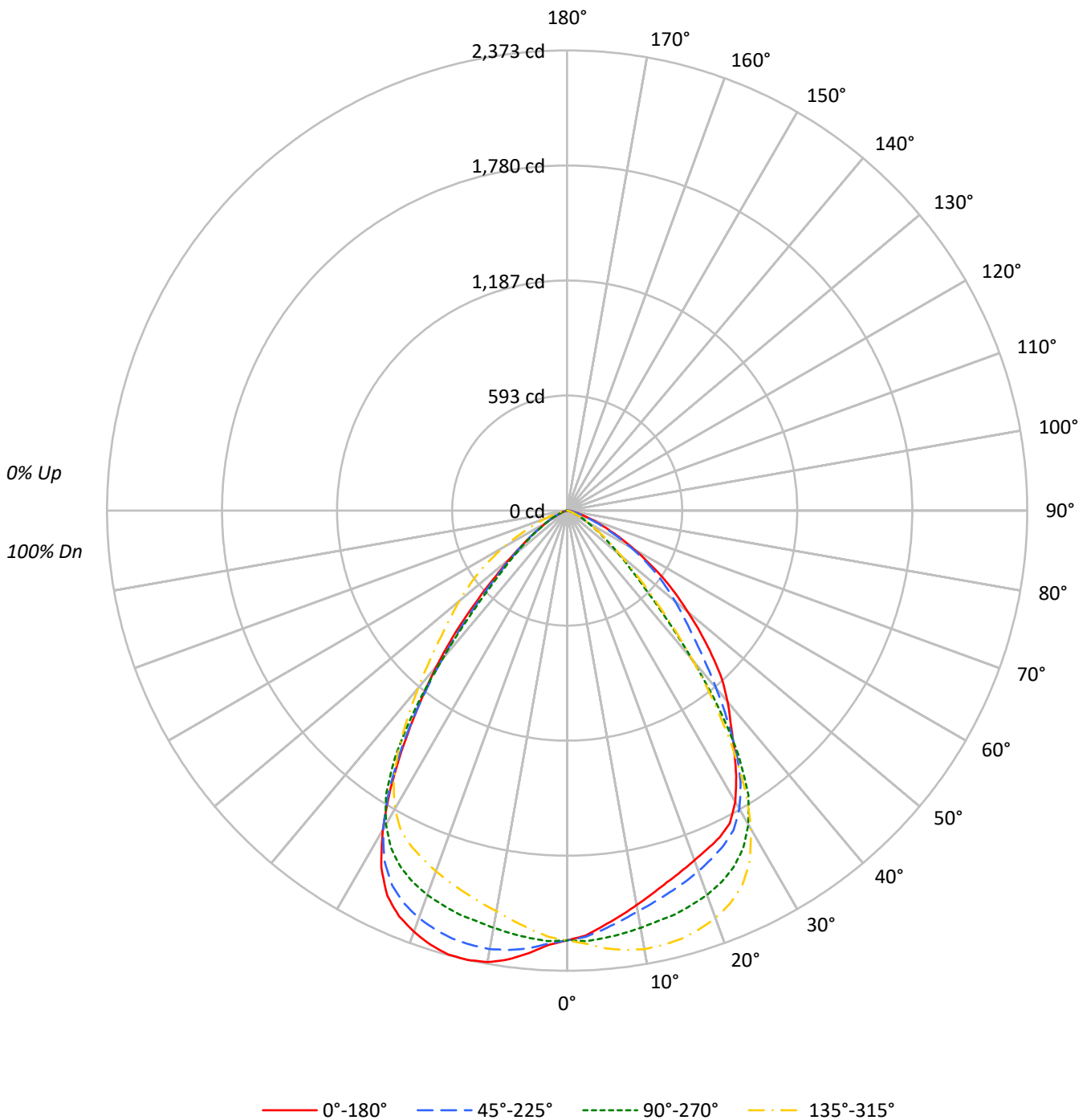
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	210.9	5.7
10°-20°	610.8	16.4
20°-30°	924.9	24.8
30°-40°	926.9	24.8
40°-50°	582.1	15.6
50°-60°	310.2	8.3
60°-70°	127.6	3.4
70°-80°	33.7	0.9
80°-90°	5.7	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°	1746.6	46.8
0°-40°	2673.5	71.6
0°-60°	3565.8	95.5
0°-90°	3732.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3732.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2216	2216	2216	2216	2216	
5°	2149	2213	2292	2213	2149	203
15°	1986	2156	2370	2156	1986	562
25°	1860	2030	2193	2030	1860	853
35°	1500	1542	1463	1542	1500	940
45°	1056	565	654	565	1056	812
55°	600	209	221	209	600	535
65°	239	64	58	64	239	248
75°	67	13	11	13	67	76
85°	14	0	1	0	14	15
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°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2193.3	2191.2	2190.0	2192.3	2193.3	2197.6	2196.6	2198.7	2198.7	2199.8	2202.0
5°	2149.0	2147.8	2149.0	2149.0	2153.2	2157.6	2156.5	2159.8	2161.9	2167.3	2169.5
7.5°	2107.8	2107.8	2106.7	2111.1	2113.2	2119.7	2118.6	2124.0	2127.3	2132.7	2140.3
10°	2065.6	2065.6	2066.6	2069.9	2071.0	2080.8	2080.8	2088.3	2092.6	2098.1	2107.8
12.5°	2024.6	2024.6	2031.0	2028.8	2033.1	2040.8	2044.0	2051.5	2058.1	2068.9	2078.7
15°	1985.5	1985.5	1987.8	1993.0	1996.3	2006.1	2011.5	2020.2	2027.7	2038.6	2052.7
17.5°	1952.0	1951.0	1952.0	1958.5	1965.0	1973.6	1978.0	1988.8	1996.3	2010.4	2023.4
20°	1918.5	1920.6	1920.6	1926.0	1930.4	1941.2	1945.5	1957.4	1966.0	1979.0	1994.2
22.5°	1889.2	1888.2	1888.2	1895.7	1899.0	1908.7	1913.1	1923.9	1933.6	1944.4	1958.5
25°	1860.1	1857.8	1862.2	1863.2	1865.4	1876.3	1879.5	1887.1	1896.9	1906.5	1920.6
27.5°	1816.8	1814.6	1815.6	1820.0	1823.3	1831.8	1834.1	1841.6	1849.2	1857.8	1869.8
30°	1733.4	1731.3	1730.2	1737.8	1741.0	1747.5	1750.7	1763.8	1765.9	1775.6	1784.2
32.5°	1623.0	1622.0	1624.2	1630.6	1633.8	1642.5	1646.9	1654.4	1659.8	1665.2	1673.9
35°	1499.7	1497.5	1499.7	1506.3	1506.3	1513.8	1517.1	1520.2	1519.2	1520.2	1518.1
37.5°	1385.0	1383.9	1385.0	1388.2	1385.0	1388.2	1385.0	1378.6	1366.6	1353.6	1340.7
40°	1287.7	1288.7	1282.3	1286.6	1274.6	1272.5	1260.6	1244.4	1220.5	1194.6	1157.9
42.5°	1183.7	1180.5	1176.2	1178.3	1168.6	1161.0	1141.5	1121.1	1090.7	1047.5	1003.0
45°	1056.0	1055.0	1052.8	1051.8	1045.2	1037.7	1021.4	997.6	964.1	919.8	866.7
47.5°	931.6	928.4	928.4	929.5	921.9	920.8	907.8	887.3	858.0	814.7	759.6
50°	812.6	811.6	813.7	818.0	812.6	810.4	801.8	787.7	761.7	724.9	673.0
52.5°	705.5	704.4	706.6	712.0	709.8	712.0	703.4	692.6	675.2	639.4	594.0
55°	600.5	600.5	600.5	607.1	607.1	607.1	602.7	596.2	579.9	553.9	511.9
57.5°	491.3	492.3	498.8	499.8	498.8	501.0	499.8	493.4	482.6	464.2	431.8
60°	399.3	399.3	402.5	405.8	404.7	405.8	405.8	402.5	391.7	376.5	350.6
62.5°	315.9	319.2	317.0	319.2	323.6	319.2	317.0	314.9	307.3	297.6	276.0
65°	239.2	241.3	241.3	242.3	240.2	241.3	237.0	233.8	229.4	218.6	204.5
67.5°	181.8	181.8	181.8	181.8	180.7	179.7	178.5	175.3	167.7	163.5	148.3
70°	139.6	133.1	133.1	133.1	133.1	134.2	131.0	126.7	124.4	116.9	106.1
72.5°	93.0	95.2	93.0	93.0	90.9	92.0	87.6	85.5	83.4	79.0	72.6
75°	67.0	61.6	63.8	64.9	61.6	63.8	59.5	55.2	55.2	52.0	48.7
77.5°	43.3	42.2	43.3	44.3	43.3	42.2	40.1	37.9	37.9	36.8	33.5
80°	31.4	30.3	30.3	30.3	29.2	30.3	28.1	28.1	26.0	24.9	22.7
82.5°	20.6	20.6	19.5	20.6	19.5	20.6	17.3	17.3	17.3	16.2	14.1
85°	14.1	11.9	11.9	13.0	10.8	13.0	11.9	10.8	9.8	9.8	8.7
87.5°	6.5	7.5	6.5	7.5	6.5	6.5	7.5	6.5	6.5	4.3	4.3
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°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2205.2	2206.2	2206.2	2210.6	2212.8	2213.9	2213.9	2222.5	2219.3	2221.4	2223.6
5°	2173.8	2180.2	2182.5	2182.5	2194.4	2198.7	2203.0	2212.8	2213.9	2220.3	2228.0
7.5°	2143.5	2151.1	2155.5	2165.2	2172.7	2180.2	2193.3	2199.8	2206.2	2214.9	2224.7
10°	2114.3	2123.0	2131.6	2139.2	2151.1	2160.8	2169.5	2184.6	2192.3	2204.1	2217.0
12.5°	2086.2	2098.1	2105.7	2118.6	2131.6	2140.3	2153.2	2167.3	2179.2	2191.2	2206.2
15°	2061.3	2075.4	2084.0	2098.1	2112.2	2124.0	2138.2	2155.5	2164.0	2178.1	2192.3
17.5°	2034.2	2049.4	2060.2	2073.2	2090.5	2103.5	2115.5	2132.7	2143.5	2158.6	2175.0
20°	2006.1	2021.3	2034.2	2047.2	2064.5	2077.5	2091.6	2108.9	2120.8	2135.9	2149.0
22.5°	1972.6	1986.6	2000.7	2015.8	2033.1	2044.0	2060.2	2075.4	2088.3	2102.4	2115.5
25°	1929.3	1946.6	1957.4	1971.4	1985.5	1997.4	2014.8	2029.8	2040.8	2053.7	2065.6
27.5°	1878.4	1891.5	1900.0	1911.9	1926.0	1936.8	1949.8	1965.0	1975.8	1987.8	1996.3
30°	1791.8	1803.8	1811.4	1820.0	1834.1	1843.8	1854.7	1868.6	1876.3	1884.9	1892.5
32.5°	1678.3	1688.0	1692.3	1698.8	1708.5	1718.2	1727.0	1738.8	1742.1	1747.5	1747.5
35°	1513.8	1515.9	1514.8	1517.1	1521.3	1526.7	1534.3	1541.9	1546.2	1546.2	1543.0
37.5°	1321.2	1308.1	1294.1	1283.3	1280.0	1277.9	1282.3	1285.4	1289.8	1292.0	1286.6
40°	1121.1	1091.8	1060.4	1032.3	1012.8	1004.2	1000.9	1003.0	1003.0	1010.6	1010.6
42.5°	948.9	903.5	857.0	814.7	786.6	765.0	755.3	755.3	756.3	761.7	765.0
45°	806.2	748.8	694.7	648.1	609.2	581.1	568.1	564.9	563.7	565.9	573.4
47.5°	696.8	637.3	581.1	523.7	482.6	454.5	442.6	438.2	433.9	438.2	439.3
50°	611.3	549.7	490.2	432.8	389.5	364.6	349.5	343.0	341.9	341.9	344.1
52.5°	533.5	476.1	416.6	358.2	312.8	288.9	274.8	271.6	267.3	271.6	271.6
55°	459.9	402.5	344.1	288.9	251.0	226.1	213.2	208.8	206.7	209.9	209.9
57.5°	379.8	331.1	277.0	227.2	189.3	172.0	162.3	156.9	155.8	158.0	155.8
60°	311.6	270.6	224.0	178.5	149.3	131.0	123.4	121.2	119.0	121.2	121.2
62.5°	246.7	212.1	174.2	139.6	114.6	101.7	93.0	93.0	92.0	92.0	93.0
65°	182.9	155.8	128.8	99.6	80.1	70.3	63.8	63.8	62.8	63.8	62.8
67.5°	133.1	114.6	93.0	72.6	57.4	52.0	47.6	44.3	46.6	44.3	43.3
70°	97.4	82.2	67.0	55.2	44.3	38.9	35.8	34.6	32.5	32.5	32.5
72.5°	64.9	55.2	45.4	35.8	29.2	23.7	22.7	20.6	18.4	19.5	21.6
75°	43.3	36.8	32.5	26.0	19.5	19.5	13.0	13.0	10.8	13.0	9.8
77.5°	30.3	24.9	19.5	16.2	13.0	11.9	8.7	8.7	7.5	7.5	7.5
80°	21.6	18.4	14.1	11.9	8.7	8.7	7.5	6.5	5.4	5.4	6.5
82.5°	13.0	9.8	9.8	8.7	5.4	4.3	3.3	4.3	2.1	2.1	2.1
85°	7.5	6.5	5.4	3.3	2.1	2.1	1.1	0.0	1.1	1.1	0.0
87.5°	4.3	2.1	2.1	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.1
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°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2229.1	2228.0	2230.1	2230.1	2236.6	2235.5	2238.8	2238.8	2236.6	2237.6	2242.0
5°	2236.6	2239.9	2246.3	2251.7	2261.5	2265.9	2271.2	2276.7	2277.7	2280.9	2284.2
7.5°	2236.6	2247.4	2255.0	2264.7	2277.7	2285.3	2297.1	2306.9	2311.2	2316.6	2323.1
10°	2232.2	2243.0	2257.1	2268.0	2284.2	2296.1	2307.9	2323.1	2329.6	2338.3	2347.0
12.5°	2223.6	2235.5	2250.7	2264.7	2283.1	2293.9	2309.1	2323.1	2332.9	2344.7	2354.5
15°	2210.6	2224.7	2238.8	2252.8	2272.3	2285.3	2299.4	2315.6	2325.3	2338.3	2347.0
17.5°	2190.0	2205.2	2218.2	2231.2	2249.5	2264.7	2277.7	2292.9	2302.6	2313.5	2325.3
20°	2165.2	2179.2	2193.3	2204.1	2222.5	2235.5	2249.5	2263.6	2271.2	2273.4	2291.7
22.5°	2133.8	2143.5	2154.4	2171.7	2182.5	2194.4	2207.4	2220.3	2228.0	2239.9	2246.3
25°	2081.8	2091.6	2103.5	2111.1	2124.0	2133.8	2146.7	2160.8	2165.2	2173.8	2180.2
27.5°	2009.4	2014.8	2020.2	2026.7	2034.2	2039.6	2047.2	2053.7	2058.1	2062.4	2066.6
30°	1894.6	1894.6	1894.6	1890.3	1893.6	1896.9	1897.9	1896.9	1896.9	1895.7	1895.7
32.5°	1743.2	1734.5	1724.7	1716.1	1712.9	1708.5	1706.4	1703.1	1697.7	1694.5	1695.6
35°	1538.7	1519.2	1507.3	1496.5	1487.8	1481.3	1478.0	1474.9	1473.8	1469.5	1465.1
37.5°	1283.3	1269.2	1260.6	1254.0	1246.5	1240.0	1241.1	1242.2	1245.4	1243.2	1244.4
40°	1012.8	1009.6	1012.8	1005.2	1003.0	1005.2	1010.6	1018.2	1022.5	1026.9	1034.4
42.5°	770.4	775.8	783.4	783.4	786.6	791.0	797.4	809.4	815.8	823.4	832.0
45°	579.9	586.5	596.2	599.4	601.6	607.1	614.6	624.4	628.6	635.2	642.7
47.5°	446.8	451.2	456.6	462.0	467.4	469.6	477.2	477.2	482.6	486.9	489.0
50°	348.4	352.7	357.1	360.3	362.5	365.7	367.9	371.1	372.2	374.4	375.4
52.5°	272.7	278.1	278.1	280.2	283.5	286.8	285.6	286.8	287.8	287.8	291.0
55°	213.2	213.2	216.4	216.4	218.6	217.5	218.6	218.6	218.6	218.6	219.7
57.5°	159.1	160.2	163.5	161.2	160.2	162.3	160.2	162.3	161.2	163.5	160.2
60°	122.3	122.3	123.4	123.4	124.4	124.4	124.4	123.4	123.4	122.3	122.3
62.5°	92.0	93.0	94.2	93.0	93.0	93.0	92.0	92.0	90.9	89.8	89.8
65°	61.6	60.6	62.8	60.6	61.6	61.6	60.6	61.6	58.4	59.5	58.4
67.5°	44.3	43.3	42.2	43.3	42.2	41.1	41.1	42.2	43.3	40.1	40.1
70°	29.2	30.3	29.2	30.3	31.4	31.4	30.3	29.2	30.3	28.1	29.2
72.5°	18.4	18.4	18.4	18.4	18.4	19.5	19.5	19.5	17.3	17.3	16.2
75°	8.7	11.9	9.8	8.7	11.9	11.9	10.8	10.8	9.8	9.8	9.8
77.5°	8.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.4	6.5	5.4
80°	4.3	4.3	4.3	3.3	4.3	4.3	5.4	4.3	4.3	3.3	5.4
82.5°	2.1	2.1	2.1	0.0	1.1	2.1	2.1	1.1	2.1	2.1	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: P248956

CATALOG NUMBER: LD8B60D010 ER8B60927 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2240.9	2239.9	2240.9	2242.0	2240.9	2239.9	2240.9	2242.0	2237.6	2236.6	2238.8
5°	2288.5	2288.5	2290.6	2291.7	2290.6	2288.5	2288.5	2284.2	2280.9	2277.7	2276.7
7.5°	2329.6	2331.8	2333.9	2335.0	2333.9	2331.8	2329.6	2323.1	2316.6	2311.2	2306.9
10°	2354.5	2357.8	2362.0	2364.2	2362.0	2357.8	2354.5	2347.0	2338.3	2329.6	2323.1
12.5°	2365.3	2368.6	2374.0	2373.0	2374.0	2368.6	2365.3	2354.5	2344.7	2332.9	2323.1
15°	2357.8	2362.0	2367.5	2369.7	2367.5	2362.0	2357.8	2347.0	2338.3	2325.3	2315.6
17.5°	2333.9	2340.5	2343.7	2347.0	2343.7	2340.5	2333.9	2325.3	2313.5	2302.6	2292.9
20°	2301.5	2305.8	2310.2	2311.2	2310.2	2305.8	2301.5	2291.7	2273.4	2271.2	2263.6
22.5°	2255.0	2258.2	2268.0	2264.7	2268.0	2258.2	2255.0	2246.3	2239.9	2228.0	2220.3
25°	2187.9	2191.2	2192.3	2193.3	2192.3	2191.2	2187.9	2180.2	2173.8	2165.2	2160.8
27.5°	2072.1	2072.1	2074.3	2075.4	2074.3	2072.1	2072.1	2066.6	2062.4	2058.1	2053.7
30°	1896.9	1896.9	1896.9	1902.3	1896.9	1896.9	1896.9	1895.7	1895.7	1896.9	1896.9
32.5°	1694.5	1692.3	1690.2	1692.3	1690.2	1692.3	1694.5	1695.6	1694.5	1697.7	1703.1
35°	1465.1	1464.0	1467.2	1463.0	1467.2	1464.0	1465.1	1465.1	1469.5	1473.8	1474.9
37.5°	1245.4	1243.2	1247.6	1243.2	1247.6	1243.2	1245.4	1244.4	1243.2	1245.4	1242.2
40°	1036.6	1038.7	1038.7	1047.5	1038.7	1038.7	1036.6	1034.4	1026.9	1022.5	1018.2
42.5°	836.4	843.0	840.7	847.2	840.7	843.0	836.4	832.0	823.4	815.8	809.4
45°	647.0	651.4	651.4	653.5	651.4	651.4	647.0	642.7	635.2	628.6	624.4
47.5°	496.7	496.7	496.7	497.7	496.7	496.7	496.7	489.0	486.9	482.6	477.2
50°	377.7	378.7	379.8	380.9	379.8	378.7	377.7	375.4	374.4	372.2	371.1
52.5°	290.0	291.0	288.9	291.0	288.9	291.0	290.0	291.0	287.8	287.8	286.8
55°	219.7	218.6	219.7	220.7	219.7	218.6	219.7	219.7	218.6	218.6	218.6
57.5°	161.2	159.1	159.1	159.1	159.1	159.1	161.2	160.2	163.5	161.2	162.3
60°	120.2	121.2	121.2	122.3	121.2	121.2	120.2	122.3	122.3	123.4	123.4
62.5°	88.8	92.0	89.8	92.0	89.8	92.0	88.8	89.8	89.8	90.9	92.0
65°	57.4	57.4	57.4	58.4	57.4	57.4	57.4	58.4	59.5	58.4	61.6
67.5°	38.9	40.1	42.2	41.1	42.2	40.1	38.9	40.1	40.1	43.3	42.2
70°	31.4	28.1	28.1	31.4	28.1	28.1	31.4	29.2	28.1	30.3	29.2
72.5°	18.4	16.2	18.4	18.4	18.4	16.2	18.4	16.2	17.3	17.3	19.5
75°	9.8	8.7	7.5	10.8	7.5	8.7	9.8	9.8	9.8	9.8	10.8
77.5°	6.5	5.4	7.5	7.5	7.5	5.4	6.5	5.4	6.5	5.4	6.5
80°	3.3	4.3	3.3	5.4	3.3	4.3	3.3	5.4	3.3	4.3	4.3
82.5°	1.1	2.1	2.1	2.1	2.1	2.1	1.1	1.1	2.1	2.1	1.1
85°	0.0	2.1	1.1	1.1	1.1	2.1	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: P248956

CATALOG NUMBER: LD8B60D010 ER8B60927 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2238.8	2235.5	2236.6	2230.1	2230.1	2228.0	2229.1	2223.6	2221.4	2219.3	2222.5
5°	2271.2	2265.9	2261.5	2251.7	2246.3	2239.9	2236.6	2228.0	2220.3	2213.9	2212.8
7.5°	2297.1	2285.3	2277.7	2264.7	2255.0	2247.4	2236.6	2224.7	2214.9	2206.2	2199.8
10°	2307.9	2296.1	2284.2	2268.0	2257.1	2243.0	2232.2	2217.0	2204.1	2192.3	2184.6
12.5°	2309.1	2293.9	2283.1	2264.7	2250.7	2235.5	2223.6	2206.2	2191.2	2179.2	2167.3
15°	2299.4	2285.3	2272.3	2252.8	2238.8	2224.7	2210.6	2192.3	2178.1	2164.0	2155.5
17.5°	2277.7	2264.7	2249.5	2231.2	2218.2	2205.2	2190.0	2175.0	2158.6	2143.5	2132.7
20°	2249.5	2235.5	2222.5	2204.1	2193.3	2179.2	2165.2	2149.0	2135.9	2120.8	2108.9
22.5°	2207.4	2194.4	2182.5	2171.7	2154.4	2143.5	2133.8	2115.5	2102.4	2088.3	2075.4
25°	2146.7	2133.8	2124.0	2111.1	2103.5	2091.6	2081.8	2065.6	2053.7	2040.8	2029.8
27.5°	2047.2	2039.6	2034.2	2026.7	2020.2	2014.8	2009.4	1996.3	1987.8	1975.8	1965.0
30°	1897.9	1896.9	1893.6	1890.3	1894.6	1894.6	1894.6	1892.5	1884.9	1876.3	1868.6
32.5°	1706.4	1708.5	1712.9	1716.1	1724.7	1734.5	1743.2	1747.5	1747.5	1742.1	1738.8
35°	1478.0	1481.3	1487.8	1496.5	1507.3	1519.2	1538.7	1543.0	1546.2	1546.2	1541.9
37.5°	1241.1	1240.0	1246.5	1254.0	1260.6	1269.2	1283.3	1286.6	1292.0	1289.8	1285.4
40°	1010.6	1005.2	1003.0	1005.2	1012.8	1009.6	1012.8	1010.6	1010.6	1003.0	1003.0
42.5°	797.4	791.0	786.6	783.4	783.4	775.8	770.4	765.0	761.7	756.3	755.3
45°	614.6	607.1	601.6	599.4	596.2	586.5	579.9	573.4	565.9	563.7	564.9
47.5°	477.2	469.6	467.4	462.0	456.6	451.2	446.8	439.3	438.2	433.9	438.2
50°	367.9	365.7	362.5	360.3	357.1	352.7	348.4	344.1	341.9	341.9	343.0
52.5°	285.6	286.8	283.5	280.2	278.1	278.1	272.7	271.6	271.6	267.3	271.6
55°	218.6	217.5	218.6	216.4	216.4	213.2	213.2	209.9	209.9	206.7	208.8
57.5°	160.2	162.3	160.2	161.2	163.5	160.2	159.1	155.8	158.0	155.8	156.9
60°	124.4	124.4	124.4	123.4	123.4	122.3	122.3	121.2	121.2	119.0	121.2
62.5°	92.0	93.0	93.0	93.0	94.2	93.0	92.0	93.0	92.0	92.0	93.0
65°	60.6	61.6	61.6	60.6	62.8	60.6	61.6	62.8	63.8	62.8	63.8
67.5°	41.1	41.1	42.2	43.3	42.2	43.3	44.3	43.3	44.3	46.6	44.3
70°	30.3	31.4	31.4	30.3	29.2	30.3	29.2	32.5	32.5	32.5	34.6
72.5°	19.5	19.5	18.4	18.4	18.4	18.4	18.4	21.6	19.5	18.4	20.6
75°	10.8	11.9	11.9	8.7	9.8	11.9	8.7	9.8	13.0	10.8	13.0
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	8.7	7.5	7.5	7.5	8.7
80°	5.4	4.3	4.3	3.3	4.3	4.3	4.3	6.5	5.4	5.4	6.5
82.5°	2.1	2.1	1.1	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.3
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	2.1	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: P248956

CATALOG NUMBER: LD8B60D010 ER8B60927 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2213.9	2213.9	2212.8	2210.6	2206.2	2206.2	2205.2	2202.0	2199.8	2198.7	2198.7
5°	2203.0	2198.7	2194.4	2182.5	2182.5	2180.2	2173.8	2169.5	2167.3	2161.9	2159.8
7.5°	2193.3	2180.2	2172.7	2165.2	2155.5	2151.1	2143.5	2140.3	2132.7	2127.3	2124.0
10°	2169.5	2160.8	2151.1	2139.2	2131.6	2123.0	2114.3	2107.8	2098.1	2092.6	2088.3
12.5°	2153.2	2140.3	2131.6	2118.6	2105.7	2098.1	2086.2	2078.7	2068.9	2058.1	2051.5
15°	2138.2	2124.0	2112.2	2098.1	2084.0	2075.4	2061.3	2052.7	2038.6	2027.7	2020.2
17.5°	2115.5	2103.5	2090.5	2073.2	2060.2	2049.4	2034.2	2023.4	2010.4	1996.3	1988.8
20°	2091.6	2077.5	2064.5	2047.2	2034.2	2021.3	2006.1	1994.2	1979.0	1966.0	1957.4
22.5°	2060.2	2044.0	2033.1	2015.8	2000.7	1986.6	1972.6	1958.5	1944.4	1933.6	1923.9
25°	2014.8	1997.4	1985.5	1971.4	1957.4	1946.6	1929.3	1920.6	1906.5	1896.9	1887.1
27.5°	1949.8	1936.8	1926.0	1911.9	1900.0	1891.5	1878.4	1869.8	1857.8	1849.2	1841.6
30°	1854.7	1843.8	1834.1	1820.0	1811.4	1803.8	1791.8	1784.2	1775.6	1765.9	1763.8
32.5°	1727.0	1718.2	1708.5	1698.8	1692.3	1688.0	1678.3	1673.9	1665.2	1659.8	1654.4
35°	1534.3	1526.7	1521.3	1517.1	1514.8	1515.9	1513.8	1518.1	1520.2	1519.2	1520.2
37.5°	1282.3	1277.9	1280.0	1283.3	1294.1	1308.1	1321.2	1340.7	1353.6	1366.6	1378.6
40°	1000.9	1004.2	1012.8	1032.3	1060.4	1091.8	1121.1	1157.9	1194.6	1220.5	1244.4
42.5°	755.3	765.0	786.6	814.7	857.0	903.5	948.9	1003.0	1047.5	1090.7	1121.1
45°	568.1	581.1	609.2	648.1	694.7	748.8	806.2	866.7	919.8	964.1	997.6
47.5°	442.6	454.5	482.6	523.7	581.1	637.3	696.8	759.6	814.7	858.0	887.3
50°	349.5	364.6	389.5	432.8	490.2	549.7	611.3	673.0	724.9	761.7	787.7
52.5°	274.8	288.9	312.8	358.2	416.6	476.1	533.5	594.0	639.4	675.2	692.6
55°	213.2	226.1	251.0	288.9	344.1	402.5	459.9	511.9	553.9	579.9	596.2
57.5°	162.3	172.0	189.3	227.2	277.0	331.1	379.8	431.8	464.2	482.6	493.4
60°	123.4	131.0	149.3	178.5	224.0	270.6	311.6	350.6	376.5	391.7	402.5
62.5°	93.0	101.7	114.6	139.6	174.2	212.1	246.7	276.0	297.6	307.3	314.9
65°	63.8	70.3	80.1	99.6	128.8	155.8	182.9	204.5	218.6	229.4	233.8
67.5°	47.6	52.0	57.4	72.6	93.0	114.6	133.1	148.3	163.5	167.7	175.3
70°	35.8	38.9	44.3	55.2	67.0	82.2	97.4	106.1	116.9	124.4	126.7
72.5°	22.7	23.7	29.2	35.8	45.4	55.2	64.9	72.6	79.0	83.4	85.5
75°	13.0	19.5	19.5	26.0	32.5	36.8	43.3	48.7	52.0	55.2	55.2
77.5°	8.7	11.9	13.0	16.2	19.5	24.9	30.3	33.5	36.8	37.9	37.9
80°	7.5	8.7	8.7	11.9	14.1	18.4	21.6	22.7	24.9	26.0	28.1
82.5°	3.3	4.3	5.4	8.7	9.8	9.8	13.0	14.1	16.2	17.3	17.3
85°	1.1	2.1	2.1	3.3	5.4	6.5	7.5	8.7	9.8	9.8	10.8
87.5°	1.1	1.1	0.0	1.1	2.1	2.1	4.3	4.3	4.3	6.5	6.5
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: P248956

CATALOG NUMBER: LD8B60D010 ER8B60927 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2196.6	2197.6	2193.3	2192.3	2190.0	2191.2	2193.3
5°	2156.5	2157.6	2153.2	2149.0	2149.0	2147.8	2149.0
7.5°	2118.6	2119.7	2113.2	2111.1	2106.7	2107.8	2107.8
10°	2080.8	2080.8	2071.0	2069.9	2066.6	2065.6	2065.6
12.5°	2044.0	2040.8	2033.1	2028.8	2031.0	2024.6	2024.6
15°	2011.5	2006.1	1996.3	1993.0	1987.8	1985.5	1985.5
17.5°	1978.0	1973.6	1965.0	1958.5	1952.0	1951.0	1952.0
20°	1945.5	1941.2	1930.4	1926.0	1920.6	1920.6	1918.5
22.5°	1913.1	1908.7	1899.0	1895.7	1888.2	1888.2	1889.2
25°	1879.5	1876.3	1865.4	1863.2	1862.2	1857.8	1860.1
27.5°	1834.1	1831.8	1823.3	1820.0	1815.6	1814.6	1816.8
30°	1750.7	1747.5	1741.0	1737.8	1730.2	1731.3	1733.4
32.5°	1646.9	1642.5	1633.8	1630.6	1624.2	1622.0	1623.0
35°	1517.1	1513.8	1506.3	1506.3	1499.7	1497.5	1499.7
37.5°	1385.0	1388.2	1385.0	1388.2	1385.0	1383.9	1385.0
40°	1260.6	1272.5	1274.6	1286.6	1282.3	1288.7	1287.7
42.5°	1141.5	1161.0	1168.6	1178.3	1176.2	1180.5	1183.7
45°	1021.4	1037.7	1045.2	1051.8	1052.8	1055.0	1056.0
47.5°	907.8	920.8	921.9	929.5	928.4	928.4	931.6
50°	801.8	810.4	812.6	818.0	813.7	811.6	812.6
52.5°	703.4	712.0	709.8	712.0	706.6	704.4	705.5
55°	602.7	607.1	607.1	607.1	600.5	600.5	600.5
57.5°	499.8	501.0	498.8	499.8	498.8	492.3	491.3
60°	405.8	405.8	404.7	405.8	402.5	399.3	399.3
62.5°	317.0	319.2	323.6	319.2	317.0	319.2	315.9
65°	237.0	241.3	240.2	242.3	241.3	241.3	239.2
67.5°	178.5	179.7	180.7	181.8	181.8	181.8	181.8
70°	131.0	134.2	133.1	133.1	133.1	133.1	139.6
72.5°	87.6	92.0	90.9	93.0	93.0	95.2	93.0
75°	59.5	63.8	61.6	64.9	63.8	61.6	67.0
77.5°	40.1	42.2	43.3	44.3	43.3	42.2	43.3
80°	28.1	30.3	29.2	30.3	30.3	30.3	31.4
82.5°	17.3	20.6	19.5	20.6	19.5	20.6	20.6
85°	11.9	13.0	10.8	13.0	11.9	11.9	14.1
87.5°	7.5	6.5	6.5	7.5	6.5	7.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)