

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: P246029

Luminaire Tested: **LD8B50D010 ER8B509730 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246029
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: LD8B50D010 ER8B509730 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4013.0 lumens
Efficiency: N/A
Efficacy: 75.7 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

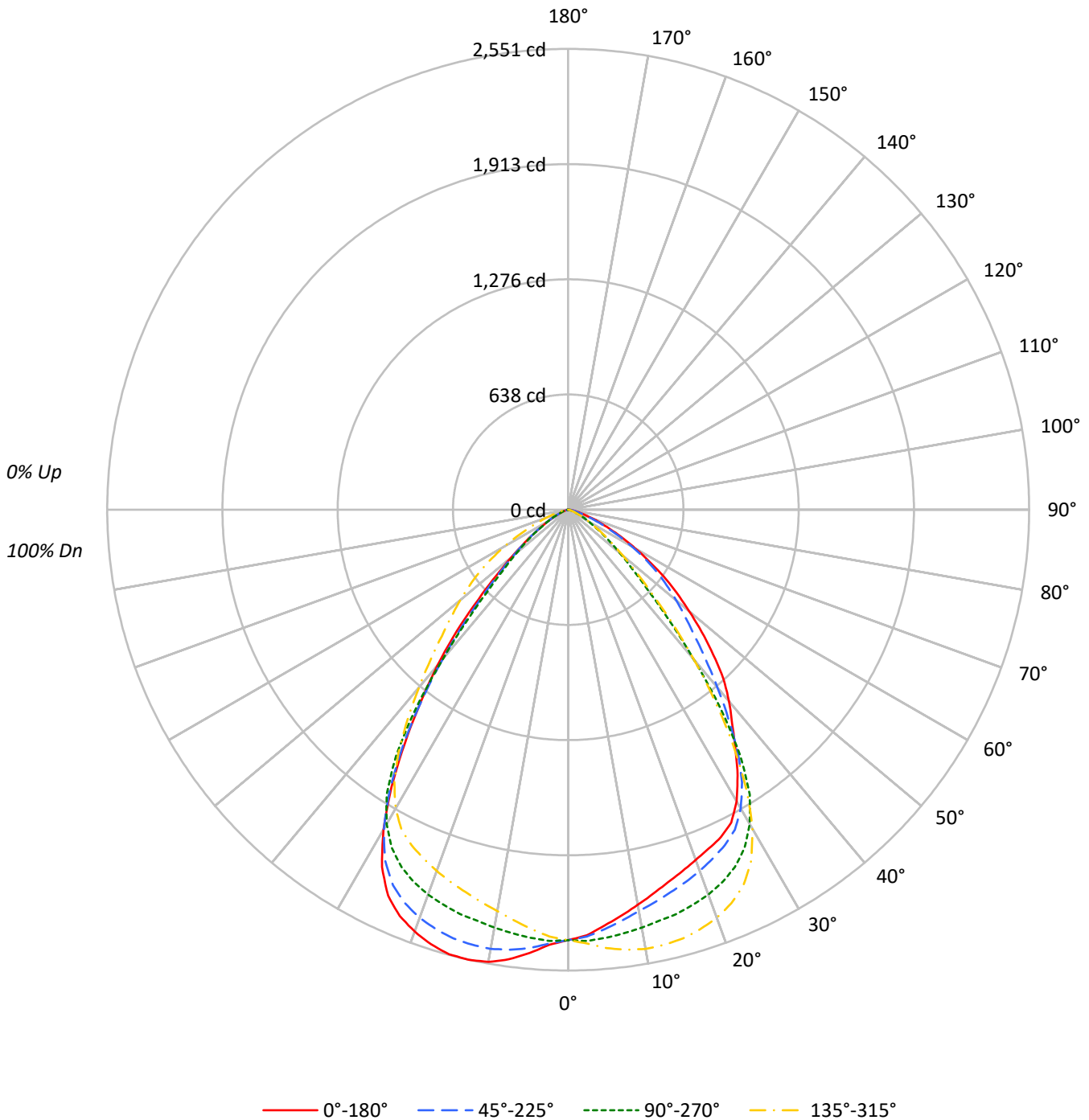
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	226.8	5.7
10°-20°	656.6	16.4
20°-30°	994.3	24.8
30°-40°	996.5	24.8
40°-50°	625.8	15.6
50°-60°	333.5	8.3
60°-70°	137.1	3.4
70°-80°	36.2	0.9
80°-90°	6.1	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°	1877.7	46.8
0°-40°	2874.3	71.6
0°-60°	3833.5	95.5
0°-90°	4013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4013.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2382	2382	2382	2382	2382	
5°	2310	2379	2464	2379	2310	218
15°	2135	2317	2548	2317	2135	604
25°	2000	2182	2358	2182	2000	917
35°	1612	1658	1573	1658	1612	1010
45°	1135	607	703	607	1135	873
55°	646	224	237	224	646	576
65°	257	69	63	69	257	267
75°	72	14	12	14	72	82
85°	15	0	1	0	15	17
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°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2358.0	2355.6	2354.5	2356.8	2358.0	2362.6	2361.5	2363.8	2363.8	2365.0	2367.3
5°	2310.3	2309.1	2310.3	2310.3	2314.9	2319.6	2318.4	2321.9	2324.2	2330.1	2332.4
7.5°	2266.1	2266.1	2264.9	2269.5	2271.9	2278.9	2277.7	2283.5	2287.0	2292.8	2300.9
10°	2220.7	2220.7	2221.8	2225.3	2226.5	2237.0	2237.0	2245.1	2249.8	2255.6	2266.1
12.5°	2176.5	2176.5	2183.5	2181.1	2185.8	2193.9	2197.4	2205.6	2212.6	2224.2	2234.7
15°	2134.6	2134.6	2137.0	2142.7	2146.2	2156.7	2162.5	2171.9	2180.0	2191.6	2206.8
17.5°	2098.5	2097.4	2098.5	2105.5	2112.5	2121.8	2126.5	2138.1	2146.2	2161.4	2175.4
20°	2062.5	2064.8	2064.8	2070.6	2075.3	2086.9	2091.6	2104.4	2113.7	2127.6	2143.9
22.5°	2031.1	2029.9	2029.9	2038.1	2041.6	2052.0	2056.7	2068.3	2078.8	2090.4	2105.5
25°	1999.7	1997.3	2002.0	2003.2	2005.5	2017.1	2020.6	2028.7	2039.2	2049.7	2064.8
27.5°	1953.1	1950.8	1952.0	1956.6	1960.1	1969.4	1971.8	1979.9	1988.0	1997.3	2010.2
30°	1863.5	1861.2	1860.1	1868.2	1871.7	1878.7	1882.2	1896.2	1898.5	1908.9	1918.2
32.5°	1744.9	1743.7	1746.1	1753.0	1756.5	1765.9	1770.5	1778.7	1784.4	1790.3	1799.6
35°	1612.3	1610.0	1612.3	1619.3	1619.3	1627.4	1630.9	1634.4	1633.2	1634.4	1632.1
37.5°	1489.0	1487.8	1489.0	1492.5	1489.0	1492.5	1489.0	1482.0	1469.2	1455.3	1441.3
40°	1384.3	1385.5	1378.5	1383.2	1370.3	1368.0	1355.2	1337.8	1312.2	1284.3	1244.7
42.5°	1272.6	1269.1	1264.5	1266.8	1256.4	1248.2	1227.3	1205.2	1172.6	1126.1	1078.3
45°	1135.4	1134.2	1131.9	1130.7	1123.7	1115.6	1098.1	1072.5	1036.5	988.8	931.8
47.5°	1001.6	998.1	998.1	999.2	991.1	989.9	976.0	953.9	922.5	875.9	816.6
50°	873.6	872.4	874.8	879.4	873.6	871.3	862.0	846.9	819.0	779.4	723.5
52.5°	758.4	757.3	759.6	765.4	763.1	765.4	756.1	744.5	725.9	687.5	638.6
55°	645.6	645.6	645.6	652.6	652.6	652.6	647.9	641.0	623.5	595.6	550.3
57.5°	528.1	529.3	536.3	537.4	536.3	538.6	537.4	530.4	518.8	499.1	464.2
60°	429.3	429.3	432.8	436.2	435.1	436.2	436.2	432.8	421.1	404.8	376.9
62.5°	339.7	343.2	340.8	343.2	347.8	343.2	340.8	338.5	330.4	319.9	296.6
65°	257.1	259.4	259.4	260.6	258.2	259.4	254.8	251.3	246.6	235.0	219.9
67.5°	195.5	195.5	195.5	195.5	194.3	193.1	192.0	188.5	180.3	175.7	159.3
70°	150.1	143.1	143.1	143.1	143.1	144.3	140.8	136.1	133.8	125.6	114.0
72.5°	100.0	102.4	100.0	100.0	97.7	98.9	94.2	91.9	89.6	84.9	78.0
75°	72.1	66.3	68.6	69.8	66.3	68.6	64.0	59.3	59.3	55.8	52.3
77.5°	46.5	45.4	46.5	47.7	46.5	45.4	43.0	40.7	40.7	39.6	36.1
80°	33.8	32.6	32.6	32.6	31.4	32.6	30.3	30.3	27.9	26.8	24.4
82.5°	22.1	22.1	20.9	22.1	20.9	22.1	18.6	18.6	18.6	17.4	15.1
85°	15.1	12.8	12.8	14.0	11.6	14.0	12.8	11.6	10.5	10.5	9.3
87.5°	7.0	8.1	7.0	8.1	7.0	7.0	8.1	7.0	7.0	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°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2370.8	2371.9	2371.9	2376.6	2378.9	2380.0	2380.0	2389.4	2385.9	2388.2	2390.5
5°	2337.0	2344.0	2346.3	2346.3	2359.1	2363.8	2368.4	2378.9	2380.0	2387.0	2395.2
7.5°	2304.4	2312.6	2317.3	2327.7	2335.9	2344.0	2358.0	2365.0	2371.9	2381.2	2391.7
10°	2273.0	2282.4	2291.7	2299.8	2312.6	2323.1	2332.4	2348.6	2356.8	2369.6	2383.5
12.5°	2242.8	2255.6	2263.7	2277.7	2291.7	2300.9	2314.9	2330.1	2342.8	2355.6	2371.9
15°	2216.1	2231.2	2240.5	2255.6	2270.7	2283.5	2298.6	2317.3	2326.6	2341.7	2356.8
17.5°	2186.9	2203.3	2214.9	2228.8	2247.5	2261.4	2274.2	2292.8	2304.4	2320.7	2338.2
20°	2156.7	2173.0	2186.9	2200.9	2219.5	2233.5	2248.6	2267.2	2280.0	2296.3	2310.3
22.5°	2120.7	2135.8	2150.9	2167.2	2185.8	2197.4	2214.9	2231.2	2245.1	2260.2	2274.2
25°	2074.1	2092.8	2104.4	2119.5	2134.6	2147.4	2166.0	2182.3	2193.9	2207.9	2220.7
27.5°	2019.4	2033.4	2042.7	2055.5	2070.6	2082.3	2096.2	2112.5	2124.2	2137.0	2146.2
30°	1926.4	1939.2	1947.3	1956.6	1971.8	1982.2	1993.9	2009.0	2017.1	2026.4	2034.6
32.5°	1804.2	1814.7	1819.4	1826.3	1836.8	1847.3	1856.6	1869.4	1872.9	1878.7	1878.7
35°	1627.4	1629.7	1628.6	1630.9	1635.6	1641.4	1649.5	1657.7	1662.3	1662.3	1658.9
37.5°	1420.4	1406.4	1391.3	1379.7	1376.2	1373.8	1378.5	1382.0	1386.6	1388.9	1383.2
40°	1205.2	1173.8	1140.0	1109.7	1088.8	1079.5	1076.0	1078.3	1078.3	1086.5	1086.5
42.5°	1020.2	971.3	921.3	875.9	845.7	822.5	812.0	812.0	813.1	819.0	822.5
45°	866.7	805.0	746.8	696.8	654.9	624.7	610.7	607.2	606.1	608.4	616.5
47.5°	749.2	685.2	624.7	563.0	518.8	488.6	475.8	471.1	466.5	471.1	472.3
50°	657.3	591.0	527.0	465.3	418.8	392.0	375.7	368.7	367.6	367.6	369.9
52.5°	573.5	511.9	447.9	385.1	336.2	310.6	295.5	292.0	287.3	292.0	292.0
55°	494.4	432.8	369.9	310.6	269.9	243.1	229.2	224.5	222.2	225.7	225.7
57.5°	408.3	356.0	297.8	244.3	203.6	185.0	174.5	168.7	167.5	169.8	167.5
60°	335.0	290.8	240.8	192.0	160.5	140.8	132.6	130.3	127.9	130.3	130.3
62.5°	265.2	228.0	187.3	150.1	123.3	109.4	100.0	100.0	98.9	98.9	100.0
65°	196.6	167.5	138.4	107.0	86.1	75.6	68.6	68.6	67.5	68.6	67.5
67.5°	143.1	123.3	100.0	78.0	61.7	55.8	51.2	47.7	50.0	47.7	46.5
70°	104.7	88.4	72.1	59.3	47.7	41.9	38.4	37.2	34.9	34.9	34.9
72.5°	69.8	59.3	48.8	38.4	31.4	25.6	24.4	22.1	19.8	20.9	23.3
75°	46.5	39.6	34.9	27.9	20.9	20.9	14.0	14.0	11.6	14.0	10.5
77.5°	32.6	26.8	20.9	17.4	14.0	12.8	9.3	9.3	8.1	8.1	8.1
80°	23.3	19.8	15.1	12.8	9.3	9.3	8.1	7.0	5.8	5.8	7.0
82.5°	14.0	10.5	10.5	9.3	5.8	4.6	3.5	4.6	2.3	2.3	2.3
85°	8.1	7.0	5.8	3.5	2.3	2.3	1.1	0.0	1.1	1.1	0.0
87.5°	4.6	2.3	2.3	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2396.4	2395.2	2397.5	2397.5	2404.5	2403.3	2406.8	2406.8	2404.5	2405.7	2410.3
5°	2404.5	2408.0	2415.0	2420.8	2431.2	2435.9	2441.7	2447.6	2448.7	2452.2	2455.7
7.5°	2404.5	2416.1	2424.3	2434.7	2448.7	2456.8	2469.6	2480.1	2484.8	2490.6	2497.5
10°	2399.8	2411.5	2426.6	2438.2	2455.7	2468.5	2481.3	2497.5	2504.5	2513.8	2523.2
12.5°	2390.5	2403.3	2419.6	2434.7	2454.5	2466.1	2482.4	2497.5	2508.0	2520.8	2531.3
15°	2376.6	2391.7	2406.8	2421.9	2442.9	2456.8	2472.0	2489.4	2499.9	2513.8	2523.2
17.5°	2354.5	2370.8	2384.7	2398.7	2418.4	2434.7	2448.7	2465.0	2475.5	2487.1	2499.9
20°	2327.7	2342.8	2358.0	2369.6	2389.4	2403.3	2418.4	2433.6	2441.7	2444.1	2463.8
22.5°	2294.0	2304.4	2316.1	2334.7	2346.3	2359.1	2373.1	2387.0	2395.2	2408.0	2415.0
25°	2238.1	2248.6	2261.4	2269.5	2283.5	2294.0	2307.9	2323.1	2327.7	2337.0	2344.0
27.5°	2160.2	2166.0	2171.9	2178.8	2186.9	2192.8	2200.9	2207.9	2212.6	2217.2	2221.8
30°	2036.9	2036.9	2036.9	2032.2	2035.7	2039.2	2040.4	2039.2	2039.2	2038.1	2038.1
32.5°	1874.0	1864.7	1854.3	1845.0	1841.5	1836.8	1834.5	1831.0	1825.2	1821.7	1822.8
35°	1654.2	1633.2	1620.5	1608.8	1599.5	1592.5	1589.0	1585.5	1584.4	1579.8	1575.1
37.5°	1379.7	1364.5	1355.2	1348.2	1340.1	1333.1	1334.3	1335.5	1338.9	1336.6	1337.8
40°	1088.8	1085.3	1088.8	1080.7	1078.3	1080.7	1086.5	1094.7	1099.3	1104.0	1112.1
42.5°	828.3	834.0	842.2	842.2	845.7	850.4	857.3	870.2	877.1	885.2	894.6
45°	623.5	630.5	641.0	644.4	646.8	652.6	660.8	671.2	675.8	682.8	691.0
47.5°	480.4	485.1	490.9	496.7	502.5	504.9	513.0	513.0	518.8	523.5	525.8
50°	374.6	379.2	383.9	387.4	389.7	393.2	395.5	399.0	400.1	402.5	403.6
52.5°	293.1	299.0	299.0	301.3	304.8	308.3	307.1	308.3	309.4	309.4	312.9
55°	229.2	229.2	232.7	232.7	235.0	233.8	235.0	235.0	235.0	235.0	236.2
57.5°	171.0	172.2	175.7	173.3	172.2	174.5	172.2	174.5	173.3	175.7	172.2
60°	131.4	131.4	132.6	132.6	133.8	133.8	133.8	132.6	132.6	131.4	131.4
62.5°	98.9	100.0	101.2	100.0	100.0	100.0	98.9	98.9	97.7	96.5	96.5
65°	66.3	65.2	67.5	65.2	66.3	66.3	65.2	66.3	62.8	64.0	62.8
67.5°	47.7	46.5	45.4	46.5	45.4	44.2	44.2	45.4	46.5	43.0	43.0
70°	31.4	32.6	31.4	32.6	33.8	33.8	32.6	31.4	32.6	30.3	31.4
72.5°	19.8	19.8	19.8	19.8	19.8	20.9	20.9	20.9	18.6	18.6	17.4
75°	9.3	12.8	10.5	9.3	12.8	12.8	11.6	11.6	10.5	10.5	10.5
77.5°	9.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	5.8	7.0	5.8
80°	4.6	4.6	4.6	3.5	4.6	4.6	5.8	4.6	4.6	3.5	5.8
82.5°	2.3	2.3	2.3	0.0	1.1	2.3	2.3	1.1	2.3	2.3	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: P246029

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2409.2	2408.0	2409.2	2410.3	2409.2	2408.0	2409.2	2410.3	2405.7	2404.5	2406.8
5°	2460.3	2460.3	2462.6	2463.8	2462.6	2460.3	2460.3	2455.7	2452.2	2448.7	2447.6
7.5°	2504.5	2506.9	2509.2	2510.3	2509.2	2506.9	2504.5	2497.5	2490.6	2484.8	2480.1
10°	2531.3	2534.8	2539.4	2541.7	2539.4	2534.8	2531.3	2523.2	2513.8	2504.5	2497.5
12.5°	2542.9	2546.4	2552.2	2551.1	2552.2	2546.4	2542.9	2531.3	2520.8	2508.0	2497.5
15°	2534.8	2539.4	2545.2	2547.6	2545.2	2539.4	2534.8	2523.2	2513.8	2499.9	2489.4
17.5°	2509.2	2516.2	2519.7	2523.2	2519.7	2516.2	2509.2	2499.9	2487.1	2475.5	2465.0
20°	2474.3	2479.0	2483.6	2484.8	2483.6	2479.0	2474.3	2463.8	2444.1	2441.7	2433.6
22.5°	2424.3	2427.8	2438.2	2434.7	2438.2	2427.8	2424.3	2415.0	2408.0	2395.2	2387.0
25°	2352.1	2355.6	2356.8	2358.0	2356.8	2355.6	2352.1	2344.0	2337.0	2327.7	2323.1
27.5°	2227.7	2227.7	2230.0	2231.2	2230.0	2227.7	2227.7	2221.8	2217.2	2212.6	2207.9
30°	2039.2	2039.2	2039.2	2045.1	2039.2	2039.2	2039.2	2038.1	2038.1	2039.2	2039.2
32.5°	1821.7	1819.4	1817.1	1819.4	1817.1	1819.4	1821.7	1822.8	1821.7	1825.2	1831.0
35°	1575.1	1573.9	1577.4	1572.8	1577.4	1573.9	1575.1	1575.1	1579.8	1584.4	1585.5
37.5°	1338.9	1336.6	1341.3	1336.6	1341.3	1336.6	1338.9	1337.8	1336.6	1338.9	1335.5
40°	1114.4	1116.7	1116.7	1126.1	1116.7	1116.7	1114.4	1112.1	1104.0	1099.3	1094.7
42.5°	899.2	906.2	903.9	910.8	903.9	906.2	899.2	894.6	885.2	877.1	870.2
45°	695.6	700.3	700.3	702.6	700.3	700.3	695.6	691.0	682.8	675.8	671.2
47.5°	533.9	533.9	533.9	535.1	533.9	533.9	533.9	525.8	523.5	518.8	513.0
50°	406.0	407.1	408.3	409.5	408.3	407.1	406.0	403.6	402.5	400.1	399.0
52.5°	311.8	312.9	310.6	312.9	310.6	312.9	311.8	312.9	309.4	309.4	308.3
55°	236.2	235.0	236.2	237.3	236.2	235.0	236.2	236.2	235.0	235.0	235.0
57.5°	173.3	171.0	171.0	171.0	171.0	171.0	173.3	172.2	175.7	173.3	174.5
60°	129.1	130.3	130.3	131.4	130.3	130.3	129.1	131.4	131.4	132.6	132.6
62.5°	95.4	98.9	96.5	98.9	96.5	98.9	95.4	96.5	96.5	97.7	98.9
65°	61.7	61.7	61.7	62.8	61.7	61.7	61.7	62.8	64.0	62.8	66.3
67.5°	41.9	43.0	45.4	44.2	45.4	43.0	41.9	43.0	43.0	46.5	45.4
70°	33.8	30.3	30.3	33.8	30.3	30.3	33.8	31.4	30.3	32.6	31.4
72.5°	19.8	17.4	19.8	19.8	19.8	17.4	19.8	17.4	18.6	18.6	20.9
75°	10.5	9.3	8.1	11.6	8.1	9.3	10.5	10.5	10.5	10.5	11.6
77.5°	7.0	5.8	8.1	8.1	8.1	5.8	7.0	5.8	7.0	5.8	7.0
80°	3.5	4.6	3.5	5.8	3.5	4.6	3.5	5.8	3.5	4.6	4.6
82.5°	1.1	2.3	2.3	2.3	2.3	2.3	1.1	1.1	2.3	2.3	1.1
85°	0.0	2.3	1.1	1.1	1.1	2.3	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: P246029

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2406.8	2403.3	2404.5	2397.5	2397.5	2395.2	2396.4	2390.5	2388.2	2385.9	2389.4
5°	2441.7	2435.9	2431.2	2420.8	2415.0	2408.0	2404.5	2395.2	2387.0	2380.0	2378.9
7.5°	2469.6	2456.8	2448.7	2434.7	2424.3	2416.1	2404.5	2391.7	2381.2	2371.9	2365.0
10°	2481.3	2468.5	2455.7	2438.2	2426.6	2411.5	2399.8	2383.5	2369.6	2356.8	2348.6
12.5°	2482.4	2466.1	2454.5	2434.7	2419.6	2403.3	2390.5	2371.9	2355.6	2342.8	2330.1
15°	2472.0	2456.8	2442.9	2421.9	2406.8	2391.7	2376.6	2356.8	2341.7	2326.6	2317.3
17.5°	2448.7	2434.7	2418.4	2398.7	2384.7	2370.8	2354.5	2338.2	2320.7	2304.4	2292.8
20°	2418.4	2403.3	2389.4	2369.6	2358.0	2342.8	2327.7	2310.3	2296.3	2280.0	2267.2
22.5°	2373.1	2359.1	2346.3	2334.7	2316.1	2304.4	2294.0	2274.2	2260.2	2245.1	2231.2
25°	2307.9	2294.0	2283.5	2269.5	2261.4	2248.6	2238.1	2220.7	2207.9	2193.9	2182.3
27.5°	2200.9	2192.8	2186.9	2178.8	2171.9	2166.0	2160.2	2146.2	2137.0	2124.2	2112.5
30°	2040.4	2039.2	2035.7	2032.2	2036.9	2036.9	2036.9	2034.6	2026.4	2017.1	2009.0
32.5°	1834.5	1836.8	1841.5	1845.0	1854.3	1864.7	1874.0	1878.7	1878.7	1872.9	1869.4
35°	1589.0	1592.5	1599.5	1608.8	1620.5	1633.2	1654.2	1658.9	1662.3	1662.3	1657.7
37.5°	1334.3	1333.1	1340.1	1348.2	1355.2	1364.5	1379.7	1383.2	1388.9	1386.6	1382.0
40°	1086.5	1080.7	1078.3	1080.7	1088.8	1085.3	1088.8	1086.5	1086.5	1078.3	1078.3
42.5°	857.3	850.4	845.7	842.2	842.2	834.0	828.3	822.5	819.0	813.1	812.0
45°	660.8	652.6	646.8	644.4	641.0	630.5	623.5	616.5	608.4	606.1	607.2
47.5°	513.0	504.9	502.5	496.7	490.9	485.1	480.4	472.3	471.1	466.5	471.1
50°	395.5	393.2	389.7	387.4	383.9	379.2	374.6	369.9	367.6	367.6	368.7
52.5°	307.1	308.3	304.8	301.3	299.0	299.0	293.1	292.0	292.0	287.3	292.0
55°	235.0	233.8	235.0	232.7	232.7	229.2	229.2	225.7	225.7	222.2	224.5
57.5°	172.2	174.5	172.2	173.3	175.7	172.2	171.0	167.5	169.8	167.5	168.7
60°	133.8	133.8	133.8	132.6	132.6	131.4	131.4	130.3	130.3	127.9	130.3
62.5°	98.9	100.0	100.0	100.0	101.2	100.0	98.9	100.0	98.9	98.9	100.0
65°	65.2	66.3	66.3	65.2	67.5	65.2	66.3	67.5	68.6	67.5	68.6
67.5°	44.2	44.2	45.4	46.5	45.4	46.5	47.7	46.5	47.7	50.0	47.7
70°	32.6	33.8	33.8	32.6	31.4	32.6	31.4	34.9	34.9	34.9	37.2
72.5°	20.9	20.9	19.8	19.8	19.8	19.8	19.8	23.3	20.9	19.8	22.1
75°	11.6	12.8	12.8	9.3	10.5	12.8	9.3	10.5	14.0	11.6	14.0
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	9.3	8.1	8.1	8.1	9.3
80°	5.8	4.6	4.6	3.5	4.6	4.6	4.6	7.0	5.8	5.8	7.0
82.5°	2.3	2.3	1.1	0.0	2.3	2.3	2.3	2.3	2.3	2.3	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	2.3	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: P246029

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2380.0	2380.0	2378.9	2376.6	2371.9	2371.9	2370.8	2367.3	2365.0	2363.8	2363.8
5°	2368.4	2363.8	2359.1	2346.3	2346.3	2344.0	2337.0	2332.4	2330.1	2324.2	2321.9
7.5°	2358.0	2344.0	2335.9	2327.7	2317.3	2312.6	2304.4	2300.9	2292.8	2287.0	2283.5
10°	2332.4	2323.1	2312.6	2299.8	2291.7	2282.4	2273.0	2266.1	2255.6	2249.8	2245.1
12.5°	2314.9	2300.9	2291.7	2277.7	2263.7	2255.6	2242.8	2234.7	2224.2	2212.6	2205.6
15°	2298.6	2283.5	2270.7	2255.6	2240.5	2231.2	2216.1	2206.8	2191.6	2180.0	2171.9
17.5°	2274.2	2261.4	2247.5	2228.8	2214.9	2203.3	2186.9	2175.4	2161.4	2146.2	2138.1
20°	2248.6	2233.5	2219.5	2200.9	2186.9	2173.0	2156.7	2143.9	2127.6	2113.7	2104.4
22.5°	2214.9	2197.4	2185.8	2167.2	2150.9	2135.8	2120.7	2105.5	2090.4	2078.8	2068.3
25°	2166.0	2147.4	2134.6	2119.5	2104.4	2092.8	2074.1	2064.8	2049.7	2039.2	2028.7
27.5°	2096.2	2082.3	2070.6	2055.5	2042.7	2033.4	2019.4	2010.2	1997.3	1988.0	1979.9
30°	1993.9	1982.2	1971.8	1956.6	1947.3	1939.2	1926.4	1918.2	1908.9	1898.5	1896.2
32.5°	1856.6	1847.3	1836.8	1826.3	1819.4	1814.7	1804.2	1799.6	1790.3	1784.4	1778.7
35°	1649.5	1641.4	1635.6	1630.9	1628.6	1629.7	1627.4	1632.1	1634.4	1633.2	1634.4
37.5°	1378.5	1373.8	1376.2	1379.7	1391.3	1406.4	1420.4	1441.3	1455.3	1469.2	1482.0
40°	1076.0	1079.5	1088.8	1109.7	1140.0	1173.8	1205.2	1244.7	1284.3	1312.2	1337.8
42.5°	812.0	822.5	845.7	875.9	921.3	971.3	1020.2	1078.3	1126.1	1172.6	1205.2
45°	610.7	624.7	654.9	696.8	746.8	805.0	866.7	931.8	988.8	1036.5	1072.5
47.5°	475.8	488.6	518.8	563.0	624.7	685.2	749.2	816.6	875.9	922.5	953.9
50°	375.7	392.0	418.8	465.3	527.0	591.0	657.3	723.5	779.4	819.0	846.9
52.5°	295.5	310.6	336.2	385.1	447.9	511.9	573.5	638.6	687.5	725.9	744.5
55°	229.2	243.1	269.9	310.6	369.9	432.8	494.4	550.3	595.6	623.5	641.0
57.5°	174.5	185.0	203.6	244.3	297.8	356.0	408.3	464.2	499.1	518.8	530.4
60°	132.6	140.8	160.5	192.0	240.8	290.8	335.0	376.9	404.8	421.1	432.8
62.5°	100.0	109.4	123.3	150.1	187.3	228.0	265.2	296.6	319.9	330.4	338.5
65°	68.6	75.6	86.1	107.0	138.4	167.5	196.6	219.9	235.0	246.6	251.3
67.5°	51.2	55.8	61.7	78.0	100.0	123.3	143.1	159.3	175.7	180.3	188.5
70°	38.4	41.9	47.7	59.3	72.1	88.4	104.7	114.0	125.6	133.8	136.1
72.5°	24.4	25.6	31.4	38.4	48.8	59.3	69.8	78.0	84.9	89.6	91.9
75°	14.0	20.9	20.9	27.9	34.9	39.6	46.5	52.3	55.8	59.3	59.3
77.5°	9.3	12.8	14.0	17.4	20.9	26.8	32.6	36.1	39.6	40.7	40.7
80°	8.1	9.3	9.3	12.8	15.1	19.8	23.3	24.4	26.8	27.9	30.3
82.5°	3.5	4.6	5.8	9.3	10.5	10.5	14.0	15.1	17.4	18.6	18.6
85°	1.1	2.3	2.3	3.5	5.8	7.0	8.1	9.3	10.5	10.5	11.6
87.5°	1.1	1.1	0.0	1.1	2.3	2.3	4.6	4.6	4.6	7.0	7.0
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: P246029

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2361.5	2362.6	2358.0	2356.8	2354.5	2355.6	2358.0
5°	2318.4	2319.6	2314.9	2310.3	2310.3	2309.1	2310.3
7.5°	2277.7	2278.9	2271.9	2269.5	2264.9	2266.1	2266.1
10°	2237.0	2237.0	2226.5	2225.3	2221.8	2220.7	2220.7
12.5°	2197.4	2193.9	2185.8	2181.1	2183.5	2176.5	2176.5
15°	2162.5	2156.7	2146.2	2142.7	2137.0	2134.6	2134.6
17.5°	2126.5	2121.8	2112.5	2105.5	2098.5	2097.4	2098.5
20°	2091.6	2086.9	2075.3	2070.6	2064.8	2064.8	2062.5
22.5°	2056.7	2052.0	2041.6	2038.1	2029.9	2029.9	2031.1
25°	2020.6	2017.1	2005.5	2003.2	2002.0	1997.3	1999.7
27.5°	1971.8	1969.4	1960.1	1956.6	1952.0	1950.8	1953.1
30°	1882.2	1878.7	1871.7	1868.2	1860.1	1861.2	1863.5
32.5°	1770.5	1765.9	1756.5	1753.0	1746.1	1743.7	1744.9
35°	1630.9	1627.4	1619.3	1619.3	1612.3	1610.0	1612.3
37.5°	1489.0	1492.5	1489.0	1492.5	1489.0	1487.8	1489.0
40°	1355.2	1368.0	1370.3	1383.2	1378.5	1385.5	1384.3
42.5°	1227.3	1248.2	1256.4	1266.8	1264.5	1269.1	1272.6
45°	1098.1	1115.6	1123.7	1130.7	1131.9	1134.2	1135.4
47.5°	976.0	989.9	991.1	999.2	998.1	998.1	1001.6
50°	862.0	871.3	873.6	879.4	874.8	872.4	873.6
52.5°	756.1	765.4	763.1	765.4	759.6	757.3	758.4
55°	647.9	652.6	652.6	652.6	645.6	645.6	645.6
57.5°	537.4	538.6	536.3	537.4	536.3	529.3	528.1
60°	436.2	436.2	435.1	436.2	432.8	429.3	429.3
62.5°	340.8	343.2	347.8	343.2	340.8	343.2	339.7
65°	254.8	259.4	258.2	260.6	259.4	259.4	257.1
67.5°	192.0	193.1	194.3	195.5	195.5	195.5	195.5
70°	140.8	144.3	143.1	143.1	143.1	143.1	150.1
72.5°	94.2	98.9	97.7	100.0	100.0	102.4	100.0
75°	64.0	68.6	66.3	69.8	68.6	66.3	72.1
77.5°	43.0	45.4	46.5	47.7	46.5	45.4	46.5
80°	30.3	32.6	31.4	32.6	32.6	32.6	33.8
82.5°	18.6	22.1	20.9	22.1	20.9	22.1	22.1
85°	12.8	14.0	11.6	14.0	12.8	12.8	15.1
87.5°	8.1	7.0	7.0	8.1	7.0	8.1	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)