

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: P245021

Luminaire Tested: **LD8B50D010 ER8B509730 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245021
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 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4020.0 lumens
Efficiency: N/A
Efficacy: 75.8 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

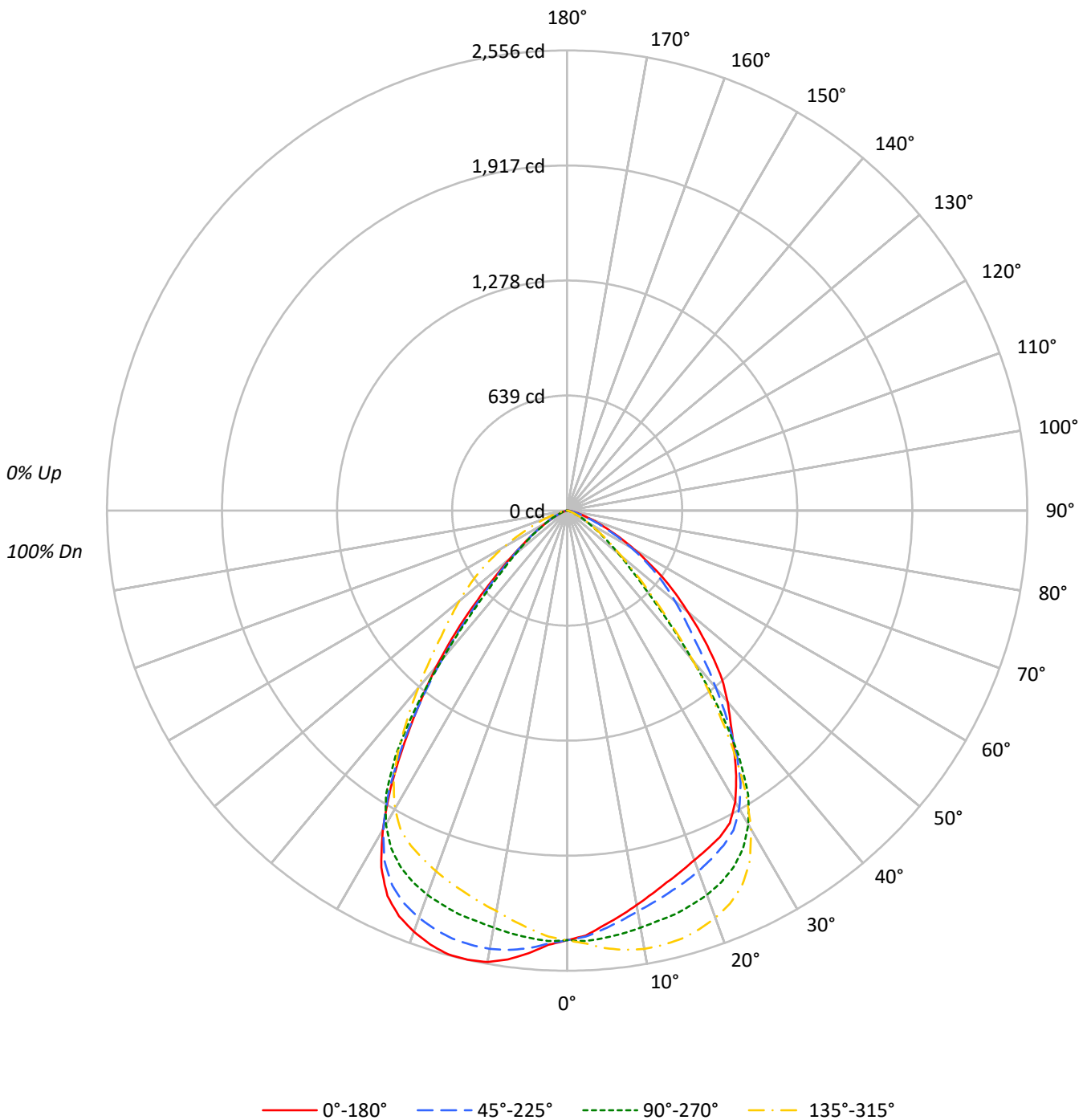
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	227.2	5.7
10°-20°	657.8	16.4
20°-30°	996.0	24.8
30°-40°	998.3	24.8
40°-50°	626.9	15.6
50°-60°	334.1	8.3
60°-70°	137.4	3.4
70°-80°	36.3	0.9
80°-90°	6.2	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°	1881.0	46.8
0°-40°	2879.3	71.6
0°-60°	3840.2	95.5
0°-90°	4020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4020.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2386	2386	2386	2386	2386	
5°	2314	2383	2468	2383	2314	218
15°	2138	2321	2552	2321	2138	605
25°	2003	2186	2362	2186	2003	919
35°	1615	1660	1576	1660	1615	1012
45°	1137	608	704	608	1137	875
55°	647	225	238	225	647	577
65°	258	69	63	69	258	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°	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5
2.5°	2362.1	2359.7	2358.6	2360.9	2362.1	2366.7	2365.6	2367.9	2367.9	2369.1	2371.4
5°	2314.3	2313.1	2314.3	2314.3	2319.0	2323.6	2322.5	2326.0	2328.3	2334.1	2336.4
7.5°	2270.0	2270.0	2268.8	2273.5	2275.8	2282.8	2281.6	2287.5	2291.0	2296.8	2305.0
10°	2224.6	2224.6	2225.7	2229.2	2230.4	2240.9	2240.9	2249.0	2253.7	2259.5	2270.0
12.5°	2180.3	2180.3	2187.3	2184.9	2189.6	2197.8	2201.3	2209.4	2216.4	2228.1	2238.6
15°	2138.3	2138.3	2140.7	2146.5	2150.0	2160.5	2166.3	2175.6	2183.8	2195.5	2210.6
17.5°	2102.2	2101.1	2102.2	2109.2	2116.2	2125.5	2130.2	2141.8	2150.0	2165.1	2179.1
20°	2066.1	2068.4	2068.4	2074.2	2078.9	2090.6	2095.2	2108.1	2117.4	2131.3	2147.7
22.5°	2034.6	2033.5	2033.5	2041.6	2045.1	2055.6	2060.2	2071.9	2082.4	2094.1	2109.2
25°	2003.2	2000.8	2005.5	2006.7	2009.0	2020.6	2024.1	2032.3	2042.8	2053.3	2068.4
27.5°	1956.5	1954.2	1955.4	1960.0	1963.5	1972.8	1975.2	1983.4	1991.5	2000.8	2013.7
30°	1866.8	1864.5	1863.3	1871.5	1875.0	1882.0	1885.5	1899.5	1901.8	1912.3	1921.6
32.5°	1747.9	1746.8	1749.1	1756.1	1759.6	1768.9	1773.6	1781.8	1787.6	1793.4	1802.7
35°	1615.1	1612.8	1615.1	1622.1	1622.1	1630.3	1633.8	1637.2	1636.1	1637.2	1634.9
37.5°	1491.6	1490.4	1491.6	1495.1	1491.6	1495.1	1491.6	1484.6	1471.8	1457.8	1443.8
40°	1386.7	1387.9	1380.9	1385.6	1372.7	1370.4	1357.6	1340.1	1314.5	1286.5	1246.9
42.5°	1274.9	1271.4	1266.7	1269.0	1258.6	1250.4	1229.4	1207.3	1174.6	1128.0	1080.2
45°	1137.3	1136.2	1133.8	1132.7	1125.7	1117.5	1100.0	1074.4	1038.3	990.5	933.4
47.5°	1003.3	999.8	999.8	1001.0	992.8	991.7	977.7	955.6	924.1	877.5	818.0
50°	875.1	874.0	876.3	881.0	875.1	872.8	863.5	848.4	820.4	780.8	724.8
52.5°	759.8	758.6	761.0	766.8	764.4	766.8	757.5	745.8	727.1	688.7	639.8
55°	646.8	646.8	646.8	653.7	653.7	653.7	649.1	642.1	624.6	596.6	551.2
57.5°	529.1	530.2	537.2	538.4	537.2	539.6	538.4	531.4	519.7	499.9	465.0
60°	430.0	430.0	433.5	437.0	435.8	437.0	437.0	433.5	421.9	405.5	377.6
62.5°	340.3	343.8	341.4	343.8	348.4	343.8	341.4	339.1	331.0	320.5	297.1
65°	257.5	259.9	259.9	261.0	258.7	259.9	255.2	251.7	247.1	235.4	220.3
67.5°	195.8	195.8	195.8	195.8	194.6	193.4	192.3	188.8	180.6	176.0	159.6
70°	150.3	143.3	143.3	143.3	143.3	144.5	141.0	136.4	134.0	125.9	114.2
72.5°	100.2	102.5	100.2	100.2	97.9	99.0	94.4	92.0	89.7	85.1	78.1
75°	72.2	66.4	68.7	69.9	66.4	68.7	64.1	59.4	59.4	55.9	52.4
77.5°	46.6	45.5	46.6	47.8	46.6	45.5	43.1	40.8	40.8	39.6	36.1
80°	33.8	32.6	32.6	32.6	31.5	32.6	30.3	30.3	28.0	26.8	24.5
82.5°	22.2	22.2	21.0	22.2	21.0	22.2	18.7	18.7	18.7	17.5	15.2
85°	15.2	12.8	12.8	14.0	11.7	14.0	12.8	11.7	10.5	10.5	9.3
87.5°	7.0	8.2	7.0	8.2	7.0	7.0	8.2	7.0	7.0	4.7	4.7
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°	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5
2.5°	2374.9	2376.0	2376.0	2380.7	2383.0	2384.2	2384.2	2393.5	2390.0	2392.4	2394.7
5°	2341.1	2348.1	2350.4	2350.4	2363.2	2367.9	2372.5	2383.0	2384.2	2391.2	2399.4
7.5°	2308.5	2316.6	2321.3	2331.8	2339.9	2348.1	2362.1	2369.1	2376.0	2385.4	2395.9
10°	2277.0	2286.3	2295.7	2303.8	2316.6	2327.1	2336.4	2352.7	2360.9	2373.7	2387.7
12.5°	2246.7	2259.5	2267.7	2281.6	2295.7	2305.0	2319.0	2334.1	2346.9	2359.7	2376.0
15°	2219.9	2235.1	2244.4	2259.5	2274.7	2287.5	2302.7	2321.3	2330.6	2345.8	2360.9
17.5°	2190.8	2207.1	2218.8	2232.7	2251.4	2265.3	2278.2	2296.8	2308.5	2324.8	2342.3
20°	2160.5	2176.8	2190.8	2204.8	2223.4	2237.4	2252.5	2271.2	2284.0	2300.3	2314.3
22.5°	2124.4	2139.5	2154.6	2170.9	2189.6	2201.3	2218.8	2235.1	2249.0	2264.2	2278.2
25°	2077.7	2096.4	2108.1	2123.2	2138.3	2151.1	2169.8	2186.1	2197.8	2211.8	2224.6
27.5°	2023.0	2037.0	2046.3	2059.1	2074.2	2085.9	2099.9	2116.2	2127.9	2140.7	2150.0
30°	1929.7	1942.6	1950.7	1960.0	1975.2	1985.7	1997.4	2012.5	2020.6	2030.0	2038.1
32.5°	1807.4	1817.9	1822.5	1829.5	1840.0	1850.5	1859.8	1872.6	1876.2	1882.0	1882.0
35°	1630.3	1632.6	1631.4	1633.8	1638.4	1644.2	1652.4	1660.5	1665.2	1665.2	1661.7
37.5°	1422.8	1408.9	1393.7	1382.1	1378.6	1376.2	1380.9	1384.4	1389.1	1391.4	1385.6
40°	1207.3	1175.8	1142.0	1111.7	1090.7	1081.4	1077.9	1080.2	1080.2	1088.4	1088.4
42.5°	1022.0	973.0	922.9	877.5	847.2	823.9	813.4	813.4	814.5	820.4	823.9
45°	868.2	806.4	748.1	698.0	656.1	625.8	611.8	608.3	607.1	609.4	617.6
47.5°	750.5	686.4	625.8	564.0	519.7	489.4	476.6	471.9	467.3	471.9	473.1
50°	658.4	592.0	527.9	466.1	419.5	392.7	376.4	369.4	368.2	368.2	370.6
52.5°	574.5	512.7	448.7	385.7	336.8	311.1	296.0	292.5	287.8	292.5	292.5
55°	495.2	433.5	370.6	311.1	270.3	243.6	229.6	224.9	222.6	226.1	226.1
57.5°	409.0	356.6	298.3	244.7	203.9	185.3	174.8	169.0	167.8	170.1	167.8
60°	335.6	291.3	241.2	192.3	160.8	141.0	132.9	130.5	128.2	130.5	130.5
62.5°	265.7	228.4	187.6	150.3	123.5	109.6	100.2	100.2	99.0	99.0	100.2
65°	196.9	167.8	138.7	107.2	86.2	75.7	68.7	68.7	67.6	68.7	67.6
67.5°	143.3	123.5	100.2	78.1	61.8	55.9	51.3	47.8	50.1	47.8	46.6
70°	104.9	88.5	72.2	59.4	47.8	42.0	38.5	37.3	35.0	35.0	35.0
72.5°	69.9	59.4	48.9	38.5	31.5	25.6	24.5	22.2	19.8	21.0	23.3
75°	46.6	39.6	35.0	28.0	21.0	21.0	14.0	14.0	11.7	14.0	10.5
77.5°	32.6	26.8	21.0	17.5	14.0	12.8	9.3	9.3	8.2	8.2	8.2
80°	23.3	19.8	15.2	12.8	9.3	9.3	8.2	7.0	5.8	5.8	7.0
82.5°	14.0	10.5	10.5	9.3	5.8	4.7	3.5	4.7	2.4	2.4	2.4
85°	8.2	7.0	5.8	3.5	2.4	2.4	1.2	0.0	1.2	1.2	0.0
87.5°	4.7	2.4	2.4	1.2	0.0	1.2	1.2	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°	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5
2.5°	2400.6	2399.4	2401.7	2401.7	2408.7	2407.5	2411.0	2411.0	2408.7	2409.9	2414.5
5°	2408.7	2412.2	2419.2	2425.0	2435.5	2440.2	2446.0	2451.8	2453.0	2456.5	2460.0
7.5°	2408.7	2420.4	2428.5	2439.0	2453.0	2461.1	2473.9	2484.4	2489.1	2494.9	2501.9
10°	2404.0	2415.7	2430.8	2442.5	2460.0	2472.8	2485.6	2501.9	2508.9	2518.2	2527.6
12.5°	2394.7	2407.5	2423.8	2439.0	2458.8	2470.4	2486.7	2501.9	2512.4	2525.2	2535.7
15°	2380.7	2395.9	2411.0	2426.2	2447.1	2461.1	2476.3	2493.7	2504.3	2518.2	2527.6
17.5°	2358.6	2374.9	2388.9	2402.9	2422.7	2439.0	2453.0	2469.3	2479.8	2491.4	2504.3
20°	2331.8	2346.9	2362.1	2373.7	2393.5	2407.5	2422.7	2437.8	2446.0	2448.3	2468.1
22.5°	2298.0	2308.5	2320.1	2338.8	2350.4	2363.2	2377.2	2391.2	2399.4	2412.2	2419.2
25°	2242.0	2252.5	2265.3	2273.5	2287.5	2298.0	2312.0	2327.1	2331.8	2341.1	2348.1
27.5°	2164.0	2169.8	2175.6	2182.6	2190.8	2196.6	2204.8	2211.8	2216.4	2221.1	2225.7
30°	2040.4	2040.4	2040.4	2035.8	2039.3	2042.8	2043.9	2042.8	2042.8	2041.6	2041.6
32.5°	1877.3	1868.0	1857.5	1848.2	1844.7	1840.0	1837.7	1834.2	1828.4	1824.9	1826.0
35°	1657.0	1636.1	1623.3	1611.6	1602.3	1595.3	1591.8	1588.3	1587.2	1582.5	1577.8
37.5°	1382.1	1366.9	1357.6	1350.6	1342.4	1335.4	1336.6	1337.8	1341.2	1338.9	1340.1
40°	1090.7	1087.2	1090.7	1082.6	1080.2	1082.6	1088.4	1096.6	1101.2	1105.9	1114.0
42.5°	829.7	835.5	843.7	843.7	847.2	851.9	858.8	871.7	878.6	886.8	896.1
45°	624.6	631.6	642.1	645.6	647.9	653.7	661.9	672.4	677.0	684.0	692.2
47.5°	481.3	485.9	491.7	497.6	503.4	505.7	513.9	513.9	519.7	524.4	526.7
50°	375.2	379.9	384.5	388.0	390.4	393.9	396.2	399.7	400.8	403.2	404.3
52.5°	293.6	299.5	299.5	301.8	305.3	308.8	307.6	308.8	309.9	309.9	313.5
55°	229.6	229.6	233.1	233.1	235.4	234.2	235.4	235.4	235.4	235.4	236.6
57.5°	171.3	172.5	176.0	173.6	172.5	174.8	172.5	174.8	173.6	176.0	172.5
60°	131.7	131.7	132.9	132.9	134.0	134.0	134.0	132.9	132.9	131.7	131.7
62.5°	99.0	100.2	101.4	100.2	100.2	100.2	99.0	99.0	97.9	96.7	96.7
65°	66.4	65.3	67.6	65.3	66.4	66.4	65.3	66.4	62.9	64.1	62.9
67.5°	47.8	46.6	45.5	46.6	45.5	44.3	44.3	45.5	46.6	43.1	43.1
70°	31.5	32.6	31.5	32.6	33.8	33.8	32.6	31.5	32.6	30.3	31.5
72.5°	19.8	19.8	19.8	19.8	19.8	21.0	21.0	21.0	18.7	18.7	17.5
75°	9.3	12.8	10.5	9.3	12.8	12.8	11.7	11.7	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°	4.7	4.7	4.7	3.5	4.7	4.7	5.8	4.7	4.7	3.5	5.8
82.5°	2.4	2.4	2.4	0.0	1.2	2.4	2.4	1.2	2.4	2.4	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: P245021

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5
2.5°	2413.4	2412.2	2413.4	2414.5	2413.4	2412.2	2413.4	2414.5	2409.9	2408.7	2411.0
5°	2464.6	2464.6	2466.9	2468.1	2466.9	2464.6	2464.6	2460.0	2456.5	2453.0	2451.8
7.5°	2508.9	2511.3	2513.6	2514.7	2513.6	2511.3	2508.9	2501.9	2494.9	2489.1	2484.4
10°	2535.7	2539.2	2543.9	2546.2	2543.9	2539.2	2535.7	2527.6	2518.2	2508.9	2501.9
12.5°	2547.4	2550.9	2556.7	2555.5	2556.7	2550.9	2547.4	2535.7	2525.2	2512.4	2501.9
15°	2539.2	2543.9	2549.7	2552.0	2549.7	2543.9	2539.2	2527.6	2518.2	2504.3	2493.7
17.5°	2513.6	2520.6	2524.1	2527.6	2524.1	2520.6	2513.6	2504.3	2491.4	2479.8	2469.3
20°	2478.6	2483.3	2487.9	2489.1	2487.9	2483.3	2478.6	2468.1	2448.3	2446.0	2437.8
22.5°	2428.5	2432.0	2442.5	2439.0	2442.5	2432.0	2428.5	2419.2	2412.2	2399.4	2391.2
25°	2356.2	2359.7	2360.9	2362.1	2360.9	2359.7	2356.2	2348.1	2341.1	2331.8	2327.1
27.5°	2231.6	2231.6	2233.9	2235.1	2233.9	2231.6	2231.6	2225.7	2221.1	2216.4	2211.8
30°	2042.8	2042.8	2042.8	2048.6	2042.8	2042.8	2042.8	2041.6	2041.6	2042.8	2042.8
32.5°	1824.9	1822.5	1820.2	1822.5	1820.2	1822.5	1824.9	1826.0	1824.9	1828.4	1834.2
35°	1577.8	1576.7	1580.2	1575.5	1580.2	1576.7	1577.8	1577.8	1582.5	1587.2	1588.3
37.5°	1341.2	1338.9	1343.6	1338.9	1343.6	1338.9	1341.2	1340.1	1338.9	1341.2	1337.8
40°	1116.4	1118.7	1118.7	1128.0	1118.7	1118.7	1116.4	1114.0	1105.9	1101.2	1096.6
42.5°	900.8	907.8	905.4	912.4	905.4	907.8	900.8	896.1	886.8	878.6	871.7
45°	696.8	701.5	701.5	703.8	701.5	701.5	696.8	692.2	684.0	677.0	672.4
47.5°	534.9	534.9	534.9	536.1	534.9	534.9	534.9	526.7	524.4	519.7	513.9
50°	406.7	407.8	409.0	410.2	409.0	407.8	406.7	404.3	403.2	400.8	399.7
52.5°	312.3	313.5	311.1	313.5	311.1	313.5	312.3	313.5	309.9	309.9	308.8
55°	236.6	235.4	236.6	237.7	236.6	235.4	236.6	236.6	235.4	235.4	235.4
57.5°	173.6	171.3	171.3	171.3	171.3	171.3	173.6	172.5	176.0	173.6	174.8
60°	129.4	130.5	130.5	131.7	130.5	130.5	129.4	131.7	131.7	132.9	132.9
62.5°	95.5	99.0	96.7	99.0	96.7	99.0	95.5	96.7	96.7	97.9	99.0
65°	61.8	61.8	61.8	62.9	61.8	61.8	61.8	62.9	64.1	62.9	66.4
67.5°	42.0	43.1	45.5	44.3	45.5	43.1	42.0	43.1	43.1	46.6	45.5
70°	33.8	30.3	30.3	33.8	30.3	30.3	33.8	31.5	30.3	32.6	31.5
72.5°	19.8	17.5	19.8	19.8	19.8	17.5	19.8	17.5	18.7	18.7	21.0
75°	10.5	9.3	8.2	11.7	8.2	9.3	10.5	10.5	10.5	10.5	11.7
77.5°	7.0	5.8	8.2	8.2	8.2	5.8	7.0	5.8	7.0	5.8	7.0
80°	3.5	4.7	3.5	5.8	3.5	4.7	3.5	5.8	3.5	4.7	4.7
82.5°	1.2	2.4	2.4	2.4	2.4	2.4	1.2	1.2	2.4	2.4	1.2
85°	0.0	2.4	1.2	1.2	1.2	2.4	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: P245021

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5
2.5°	2411.0	2407.5	2408.7	2401.7	2401.7	2399.4	2400.6	2394.7	2392.4	2390.0	2393.5
5°	2446.0	2440.2	2435.5	2425.0	2419.2	2412.2	2408.7	2399.4	2391.2	2384.2	2383.0
7.5°	2473.9	2461.1	2453.0	2439.0	2428.5	2420.4	2408.7	2395.9	2385.4	2376.0	2369.1
10°	2485.6	2472.8	2460.0	2442.5	2430.8	2415.7	2404.0	2387.7	2373.7	2360.9	2352.7
12.5°	2486.7	2470.4	2458.8	2439.0	2423.8	2407.5	2394.7	2376.0	2359.7	2346.9	2334.1
15°	2476.3	2461.1	2447.1	2426.2	2411.0	2395.9	2380.7	2360.9	2345.8	2330.6	2321.3
17.5°	2453.0	2439.0	2422.7	2402.9	2388.9	2374.9	2358.6	2342.3	2324.8	2308.5	2296.8
20°	2422.7	2407.5	2393.5	2373.7	2362.1	2346.9	2331.8	2314.3	2300.3	2284.0	2271.2
22.5°	2377.2	2363.2	2350.4	2338.8	2320.1	2308.5	2298.0	2278.2	2264.2	2249.0	2235.1
25°	2312.0	2298.0	2287.5	2273.5	2265.3	2252.5	2242.0	2224.6	2211.8	2197.8	2186.1
27.5°	2204.8	2196.6	2190.8	2182.6	2175.6	2169.8	2164.0	2150.0	2140.7	2127.9	2116.2
30°	2043.9	2042.8	2039.3	2035.8	2040.4	2040.4	2040.4	2038.1	2030.0	2020.6	2012.5
32.5°	1837.7	1840.0	1844.7	1848.2	1857.5	1868.0	1877.3	1882.0	1882.0	1876.2	1872.6
35°	1591.8	1595.3	1602.3	1611.6	1623.3	1636.1	1657.0	1661.7	1665.2	1665.2	1660.5
37.5°	1336.6	1335.4	1342.4	1350.6	1357.6	1366.9	1382.1	1385.6	1391.4	1389.1	1384.4
40°	1088.4	1082.6	1080.2	1082.6	1090.7	1087.2	1090.7	1088.4	1088.4	1080.2	1080.2
42.5°	858.8	851.9	847.2	843.7	843.7	835.5	829.7	823.9	820.4	814.5	813.4
45°	661.9	653.7	647.9	645.6	642.1	631.6	624.6	617.6	609.4	607.1	608.3
47.5°	513.9	505.7	503.4	497.6	491.7	485.9	481.3	473.1	471.9	467.3	471.9
50°	396.2	393.9	390.4	388.0	384.5	379.9	375.2	370.6	368.2	368.2	369.4
52.5°	307.6	308.8	305.3	301.8	299.5	299.5	293.6	292.5	292.5	287.8	292.5
55°	235.4	234.2	235.4	233.1	233.1	229.6	229.6	226.1	226.1	222.6	224.9
57.5°	172.5	174.8	172.5	173.6	176.0	172.5	171.3	167.8	170.1	167.8	169.0
60°	134.0	134.0	134.0	132.9	132.9	131.7	131.7	130.5	130.5	128.2	130.5
62.5°	99.0	100.2	100.2	100.2	101.4	100.2	99.0	100.2	99.0	99.0	100.2
65°	65.3	66.4	66.4	65.3	67.6	65.3	66.4	67.6	68.7	67.6	68.7
67.5°	44.3	44.3	45.5	46.6	45.5	46.6	47.8	46.6	47.8	50.1	47.8
70°	32.6	33.8	33.8	32.6	31.5	32.6	31.5	35.0	35.0	35.0	37.3
72.5°	21.0	21.0	19.8	19.8	19.8	19.8	19.8	23.3	21.0	19.8	22.2
75°	11.7	12.8	12.8	9.3	10.5	12.8	9.3	10.5	14.0	11.7	14.0
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	9.3	8.2	8.2	8.2	9.3
80°	5.8	4.7	4.7	3.5	4.7	4.7	4.7	7.0	5.8	5.8	7.0
82.5°	2.4	2.4	1.2	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.7
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	2.4	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: P245021

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5
2.5°	2384.2	2384.2	2383.0	2380.7	2376.0	2376.0	2374.9	2371.4	2369.1	2367.9	2367.9
5°	2372.5	2367.9	2363.2	2350.4	2350.4	2348.1	2341.1	2336.4	2334.1	2328.3	2326.0
7.5°	2362.1	2348.1	2339.9	2331.8	2321.3	2316.6	2308.5	2305.0	2296.8	2291.0	2287.5
10°	2336.4	2327.1	2316.6	2303.8	2295.7	2286.3	2277.0	2270.0	2259.5	2253.7	2249.0
12.5°	2319.0	2305.0	2295.7	2281.6	2267.7	2259.5	2246.7	2238.6	2228.1	2216.4	2209.4
15°	2302.7	2287.5	2274.7	2259.5	2244.4	2235.1	2219.9	2210.6	2195.5	2183.8	2175.6
17.5°	2278.2	2265.3	2251.4	2232.7	2218.8	2207.1	2190.8	2179.1	2165.1	2150.0	2141.8
20°	2252.5	2237.4	2223.4	2204.8	2190.8	2176.8	2160.5	2147.7	2131.3	2117.4	2108.1
22.5°	2218.8	2201.3	2189.6	2170.9	2154.6	2139.5	2124.4	2109.2	2094.1	2082.4	2071.9
25°	2169.8	2151.1	2138.3	2123.2	2108.1	2096.4	2077.7	2068.4	2053.3	2042.8	2032.3
27.5°	2099.9	2085.9	2074.2	2059.1	2046.3	2037.0	2023.0	2013.7	2000.8	1991.5	1983.4
30°	1997.4	1985.7	1975.2	1960.0	1950.7	1942.6	1929.7	1921.6	1912.3	1901.8	1899.5
32.5°	1859.8	1850.5	1840.0	1829.5	1822.5	1817.9	1807.4	1802.7	1793.4	1787.6	1781.8
35°	1652.4	1644.2	1638.4	1633.8	1631.4	1632.6	1630.3	1634.9	1637.2	1636.1	1637.2
37.5°	1380.9	1376.2	1378.6	1382.1	1393.7	1408.9	1422.8	1443.8	1457.8	1471.8	1484.6
40°	1077.9	1081.4	1090.7	1111.7	1142.0	1175.8	1207.3	1246.9	1286.5	1314.5	1340.1
42.5°	813.4	823.9	847.2	877.5	922.9	973.0	1022.0	1080.2	1128.0	1174.6	1207.3
45°	611.8	625.8	656.1	698.0	748.1	806.4	868.2	933.4	990.5	1038.3	1074.4
47.5°	476.6	489.4	519.7	564.0	625.8	686.4	750.5	818.0	877.5	924.1	955.6
50°	376.4	392.7	419.5	466.1	527.9	592.0	658.4	724.8	780.8	820.4	848.4
52.5°	296.0	311.1	336.8	385.7	448.7	512.7	574.5	639.8	688.7	727.1	745.8
55°	229.6	243.6	270.3	311.1	370.6	433.5	495.2	551.2	596.6	624.6	642.1
57.5°	174.8	185.3	203.9	244.7	298.3	356.6	409.0	465.0	499.9	519.7	531.4
60°	132.9	141.0	160.8	192.3	241.2	291.3	335.6	377.6	405.5	421.9	433.5
62.5°	100.2	109.6	123.5	150.3	187.6	228.4	265.7	297.1	320.5	331.0	339.1
65°	68.7	75.7	86.2	107.2	138.7	167.8	196.9	220.3	235.4	247.1	251.7
67.5°	51.3	55.9	61.8	78.1	100.2	123.5	143.3	159.6	176.0	180.6	188.8
70°	38.5	42.0	47.8	59.4	72.2	88.5	104.9	114.2	125.9	134.0	136.4
72.5°	24.5	25.6	31.5	38.5	48.9	59.4	69.9	78.1	85.1	89.7	92.0
75°	14.0	21.0	21.0	28.0	35.0	39.6	46.6	52.4	55.9	59.4	59.4
77.5°	9.3	12.8	14.0	17.5	21.0	26.8	32.6	36.1	39.6	40.8	40.8
80°	8.2	9.3	9.3	12.8	15.2	19.8	23.3	24.5	26.8	28.0	30.3
82.5°	3.5	4.7	5.8	9.3	10.5	10.5	14.0	15.2	17.5	18.7	18.7
85°	1.2	2.4	2.4	3.5	5.8	7.0	8.2	9.3	10.5	10.5	11.7
87.5°	1.2	1.2	0.0	1.2	2.4	2.4	4.7	4.7	4.7	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: P245021

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5	2386.5
2.5°	2365.6	2366.7	2362.1	2360.9	2358.6	2359.7	2362.1
5°	2322.5	2323.6	2319.0	2314.3	2314.3	2313.1	2314.3
7.5°	2281.6	2282.8	2275.8	2273.5	2268.8	2270.0	2270.0
10°	2240.9	2240.9	2230.4	2229.2	2225.7	2224.6	2224.6
12.5°	2201.3	2197.8	2189.6	2184.9	2187.3	2180.3	2180.3
15°	2166.3	2160.5	2150.0	2146.5	2140.7	2138.3	2138.3
17.5°	2130.2	2125.5	2116.2	2109.2	2102.2	2101.1	2102.2
20°	2095.2	2090.6	2078.9	2074.2	2068.4	2068.4	2066.1
22.5°	2060.2	2055.6	2045.1	2041.6	2033.5	2033.5	2034.6
25°	2024.1	2020.6	2009.0	2006.7	2005.5	2000.8	2003.2
27.5°	1975.2	1972.8	1963.5	1960.0	1955.4	1954.2	1956.5
30°	1885.5	1882.0	1875.0	1871.5	1863.3	1864.5	1866.8
32.5°	1773.6	1768.9	1759.6	1756.1	1749.1	1746.8	1747.9
35°	1633.8	1630.3	1622.1	1622.1	1615.1	1612.8	1615.1
37.5°	1491.6	1495.1	1491.6	1495.1	1491.6	1490.4	1491.6
40°	1357.6	1370.4	1372.7	1385.6	1380.9	1387.9	1386.7
42.5°	1229.4	1250.4	1258.6	1269.0	1266.7	1271.4	1274.9
45°	1100.0	1117.5	1125.7	1132.7	1133.8	1136.2	1137.3
47.5°	977.7	991.7	992.8	1001.0	999.8	999.8	1003.3
50°	863.5	872.8	875.1	881.0	876.3	874.0	875.1
52.5°	757.5	766.8	764.4	766.8	761.0	758.6	759.8
55°	649.1	653.7	653.7	653.7	646.8	646.8	646.8
57.5°	538.4	539.6	537.2	538.4	537.2	530.2	529.1
60°	437.0	437.0	435.8	437.0	433.5	430.0	430.0
62.5°	341.4	343.8	348.4	343.8	341.4	343.8	340.3
65°	255.2	259.9	258.7	261.0	259.9	259.9	257.5
67.5°	192.3	193.4	194.6	195.8	195.8	195.8	195.8
70°	141.0	144.5	143.3	143.3	143.3	143.3	150.3
72.5°	94.4	99.0	97.9	100.2	100.2	102.5	100.2
75°	64.1	68.7	66.4	69.9	68.7	66.4	72.2
77.5°	43.1	45.5	46.6	47.8	46.6	45.5	46.6
80°	30.3	32.6	31.5	32.6	32.6	32.6	33.8
82.5°	18.7	22.2	21.0	22.2	21.0	22.2	22.2
85°	12.8	14.0	11.7	14.0	12.8	12.8	15.2
87.5°	8.2	7.0	7.0	8.2	7.0	8.2	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)