

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: P248957

Luminaire Tested: **LD8B70D010 ER8B709727 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248957
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: LD8B70D010 ER8B709727 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: 4005.0 lumens
Efficiency: N/A
Efficacy: 52.8 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

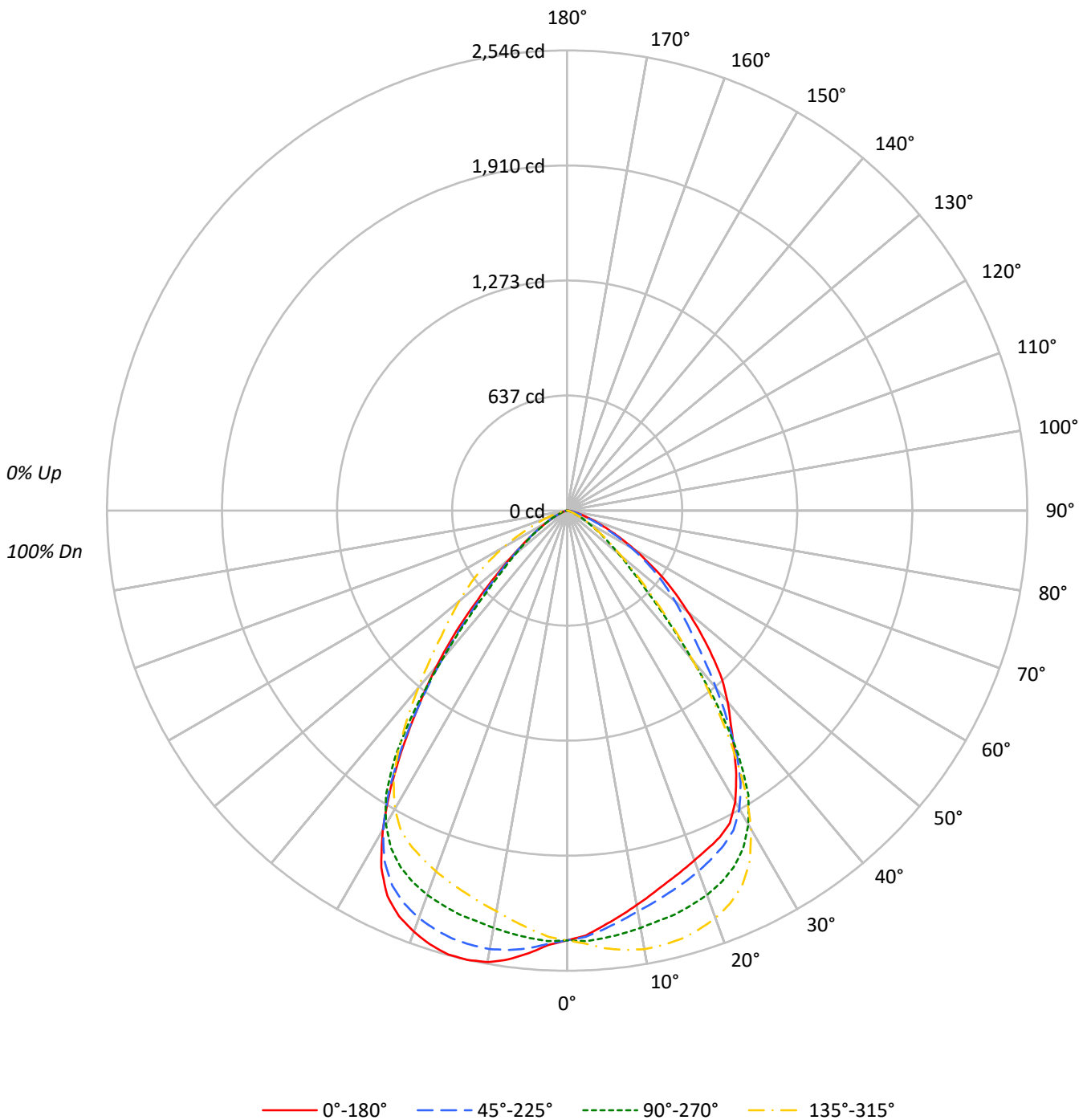
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	226.3	5.7
10°-20°	655.3	16.4
20°-30°	992.3	24.8
30°-40°	994.6	24.8
40°-50°	624.5	15.6
50°-60°	332.8	8.3
60°-70°	136.9	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°	1874.0	46.8
0°-40°	2868.5	71.6
0°-60°	3825.9	95.5
0°-90°	4005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4005.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2378	2378	2378	2378	2378	
5°	2306	2374	2459	2374	2306	217
15°	2130	2313	2542	2313	2130	603
25°	1996	2178	2353	2178	1996	915
35°	1609	1654	1570	1654	1609	1008
45°	1133	606	701	606	1133	871
55°	644	224	237	224	644	574
65°	257	68	63	68	257	266
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°	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6
2.5°	2353.3	2350.9	2349.8	2352.1	2353.3	2357.9	2356.8	2359.1	2359.1	2360.2	2362.5
5°	2305.7	2304.5	2305.7	2305.7	2310.3	2314.9	2313.8	2317.3	2319.6	2325.4	2327.7
7.5°	2261.6	2261.6	2260.4	2265.0	2267.4	2274.3	2273.1	2279.0	2282.5	2288.2	2296.4
10°	2216.3	2216.3	2217.4	2220.9	2222.1	2232.5	2232.5	2240.6	2245.3	2251.1	2261.6
12.5°	2172.2	2172.2	2179.1	2176.8	2181.4	2189.6	2193.0	2201.2	2208.1	2219.8	2230.2
15°	2130.3	2130.3	2132.7	2138.5	2142.0	2152.4	2158.2	2167.5	2175.7	2187.3	2202.4
17.5°	2094.4	2093.2	2094.4	2101.3	2108.3	2117.6	2122.2	2133.8	2142.0	2157.1	2171.0
20°	2058.4	2060.7	2060.7	2066.5	2071.1	2082.8	2087.4	2100.2	2109.5	2123.4	2139.7
22.5°	2027.0	2025.9	2025.9	2034.0	2037.5	2047.9	2052.6	2064.2	2074.6	2086.2	2101.3
25°	1995.7	1993.3	1998.0	1999.2	2001.5	2013.1	2016.6	2024.7	2035.2	2045.6	2060.7
27.5°	1949.2	1946.9	1948.1	1952.7	1956.2	1965.5	1967.8	1976.0	1984.1	1993.3	2006.2
30°	1859.8	1857.5	1856.4	1864.5	1868.0	1874.9	1878.4	1892.4	1894.7	1905.1	1914.4
32.5°	1741.4	1740.3	1742.6	1749.5	1753.0	1762.3	1767.0	1775.1	1780.9	1786.7	1796.0
35°	1609.1	1606.8	1609.1	1616.1	1616.1	1624.2	1627.7	1631.1	1630.0	1631.1	1628.8
37.5°	1486.0	1484.9	1486.0	1489.5	1486.0	1489.5	1486.0	1479.1	1466.3	1452.4	1438.4
40°	1381.5	1382.7	1375.8	1380.4	1367.6	1365.3	1352.5	1335.1	1309.6	1281.7	1242.2
42.5°	1270.1	1266.6	1262.0	1264.3	1253.9	1245.7	1224.8	1202.8	1170.2	1123.8	1076.2
45°	1133.1	1132.0	1129.6	1128.5	1121.5	1113.4	1095.9	1070.4	1034.4	986.8	929.9
47.5°	999.6	996.1	996.1	997.2	989.1	988.0	974.0	952.0	920.6	874.2	815.0
50°	871.9	870.7	873.1	877.7	871.9	869.6	860.3	845.2	817.3	777.9	722.1
52.5°	756.9	755.8	758.1	763.9	761.6	763.9	754.6	743.0	724.4	686.1	637.4
55°	644.3	644.3	644.3	651.3	651.3	651.3	646.6	639.7	622.3	594.4	549.2
57.5°	527.1	528.2	535.2	536.4	535.2	537.5	536.4	529.4	517.8	498.1	463.2
60°	428.4	428.4	431.9	435.4	434.2	435.4	435.4	431.9	420.3	404.0	376.2
62.5°	339.0	342.5	340.1	342.5	347.1	342.5	340.1	337.8	329.7	319.3	296.0
65°	256.6	258.9	258.9	260.1	257.7	258.9	254.3	250.8	246.1	234.5	219.4
67.5°	195.1	195.1	195.1	195.1	193.9	192.7	191.6	188.1	180.0	175.3	159.0
70°	149.8	142.8	142.8	142.8	142.8	144.0	140.5	135.9	133.5	125.4	113.8
72.5°	99.8	102.2	99.8	99.8	97.5	98.7	94.0	91.7	89.4	84.8	77.8
75°	72.0	66.2	68.5	69.7	66.2	68.5	63.8	59.2	59.2	55.7	52.2
77.5°	46.4	45.3	46.4	47.6	46.4	45.3	43.0	40.6	40.6	39.5	36.0
80°	33.7	32.5	32.5	32.5	31.3	32.5	30.2	30.2	27.9	26.7	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



TEST NUMBER: P248957

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6
2.5°	2366.0	2367.2	2367.2	2371.9	2374.2	2375.3	2375.3	2384.6	2381.1	2383.5	2385.8
5°	2332.4	2339.3	2341.7	2341.7	2354.4	2359.1	2363.7	2374.2	2375.3	2382.3	2390.4
7.5°	2299.8	2308.0	2312.7	2323.1	2331.2	2339.3	2353.3	2360.2	2367.2	2376.5	2386.9
10°	2268.5	2277.8	2287.1	2295.2	2308.0	2318.4	2327.7	2344.0	2352.1	2364.9	2378.8
12.5°	2238.3	2251.1	2259.2	2273.1	2287.1	2296.4	2310.3	2325.4	2338.2	2350.9	2367.2
15°	2211.6	2226.7	2236.0	2251.1	2266.2	2279.0	2294.1	2312.7	2321.9	2337.0	2352.1
17.5°	2182.6	2198.9	2210.5	2224.4	2243.0	2256.9	2269.7	2288.2	2299.8	2316.1	2333.5
20°	2152.4	2168.7	2182.6	2196.5	2215.1	2229.0	2244.1	2262.7	2275.5	2291.7	2305.7
22.5°	2116.4	2131.5	2146.6	2162.8	2181.4	2193.0	2210.5	2226.7	2240.6	2255.7	2269.7
25°	2070.0	2088.6	2100.2	2115.2	2130.3	2143.1	2161.7	2177.9	2189.6	2203.5	2216.3
27.5°	2015.4	2029.4	2038.6	2051.4	2066.5	2078.1	2092.0	2108.3	2119.9	2132.7	2142.0
30°	1922.5	1935.3	1943.5	1952.7	1967.8	1978.3	1989.9	2005.0	2013.1	2022.4	2030.5
32.5°	1800.6	1811.1	1815.7	1822.7	1833.2	1843.6	1852.9	1865.7	1869.2	1874.9	1874.9
35°	1624.2	1626.5	1625.3	1627.7	1632.3	1638.1	1646.2	1654.4	1659.0	1659.0	1655.5
37.5°	1417.5	1403.6	1388.5	1376.9	1373.4	1371.1	1375.8	1379.2	1383.9	1386.2	1380.4
40°	1202.8	1171.4	1137.7	1107.5	1086.7	1077.4	1073.9	1076.2	1076.2	1084.3	1084.3
42.5°	1018.2	969.4	919.5	874.2	844.0	820.8	810.4	810.4	811.5	817.3	820.8
45°	864.9	803.4	745.3	695.4	653.6	623.4	609.5	606.0	604.9	607.2	615.3
47.5°	747.7	683.8	623.4	561.9	517.8	487.6	474.8	470.2	465.5	470.2	471.4
50°	656.0	589.8	525.9	464.4	417.9	391.2	375.0	368.0	366.9	366.9	369.2
52.5°	572.3	510.8	447.0	384.3	335.5	310.0	294.9	291.4	286.8	291.4	291.4
55°	493.4	431.9	369.2	310.0	269.3	242.7	228.7	224.1	221.7	225.2	225.2
57.5°	407.5	355.2	297.2	243.8	203.2	184.6	174.1	168.4	167.2	169.5	167.2
60°	334.4	290.3	240.3	191.6	160.2	140.5	132.4	130.0	127.7	130.0	130.0
62.5°	264.7	227.6	186.9	149.8	123.0	109.1	99.8	99.8	98.7	98.7	99.8
65°	196.2	167.2	138.1	106.8	85.9	75.5	68.5	68.5	67.3	68.5	67.3
67.5°	142.8	123.0	99.8	77.8	61.5	55.7	51.1	47.6	49.9	47.6	46.4
70°	104.5	88.2	72.0	59.2	47.6	41.8	38.3	37.1	34.8	34.8	34.8
72.5°	69.7	59.2	48.7	38.3	31.3	25.5	24.4	22.1	19.7	20.9	23.2
75°	46.4	39.5	34.8	27.9	20.9	20.9	14.0	14.0	11.6	14.0	10.5
77.5°	32.5	26.7	20.9	17.4	14.0	12.8	9.3	9.3	8.1	8.1	8.1
80°	23.2	19.7	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



TEST NUMBER: P248957

CATALOG NUMBER: LD8B70D010 ER8B709727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6
2.5°	2391.6	2390.4	2392.7	2392.7	2399.7	2398.5	2402.0	2402.0	2399.7	2400.9	2405.5
5°	2399.7	2403.2	2410.1	2416.0	2426.4	2431.1	2436.8	2442.7	2443.8	2447.3	2450.8
7.5°	2399.7	2411.3	2419.5	2429.9	2443.8	2451.9	2464.7	2475.2	2479.8	2485.6	2492.6
10°	2395.0	2406.6	2421.7	2433.4	2450.8	2463.6	2476.3	2492.6	2499.5	2508.8	2518.1
12.5°	2385.8	2398.5	2414.8	2429.9	2449.6	2461.2	2477.5	2492.6	2503.0	2515.8	2526.3
15°	2371.9	2386.9	2402.0	2417.1	2438.0	2451.9	2467.0	2484.4	2494.9	2508.8	2518.1
17.5°	2349.8	2366.0	2380.0	2393.9	2413.6	2429.9	2443.8	2460.1	2470.5	2482.1	2494.9
20°	2323.1	2338.2	2353.3	2364.9	2384.6	2398.5	2413.6	2428.7	2436.8	2439.2	2458.9
22.5°	2289.4	2299.8	2311.5	2330.0	2341.7	2354.4	2368.4	2382.3	2390.4	2403.2	2410.1
25°	2233.7	2244.1	2256.9	2265.0	2279.0	2289.4	2303.3	2318.4	2323.1	2332.4	2339.3
27.5°	2155.9	2161.7	2167.5	2174.5	2182.6	2188.4	2196.5	2203.5	2208.1	2212.8	2217.4
30°	2032.8	2032.8	2032.8	2028.2	2031.7	2035.2	2036.3	2035.2	2035.2	2034.0	2034.0
32.5°	1870.3	1861.0	1850.6	1841.3	1837.8	1833.2	1830.8	1827.3	1821.6	1818.1	1819.2
35°	1650.9	1630.0	1617.2	1605.6	1596.3	1589.4	1585.9	1582.4	1581.2	1576.6	1571.9
37.5°	1376.9	1361.8	1352.5	1345.6	1337.4	1330.5	1331.6	1332.8	1336.2	1333.9	1335.1
40°	1086.7	1083.2	1086.7	1078.5	1076.2	1078.5	1084.3	1092.5	1097.1	1101.8	1109.9
42.5°	826.6	832.4	840.6	840.6	844.0	848.7	855.6	868.4	875.3	883.5	892.8
45°	622.3	629.2	639.7	643.2	645.5	651.3	659.4	669.9	674.5	681.5	689.6
47.5°	479.5	484.1	489.9	495.7	501.5	503.9	512.0	512.0	517.8	522.4	524.7
50°	373.8	378.5	383.1	386.6	388.9	392.4	394.7	398.2	399.3	401.7	402.8
52.5°	292.5	298.4	298.4	300.7	304.2	307.6	306.5	307.6	308.8	308.8	312.3
55°	228.7	228.7	232.2	232.2	234.5	233.3	234.5	234.5	234.5	234.5	235.7
57.5°	170.6	171.8	175.3	173.0	171.8	174.1	171.8	174.1	173.0	175.3	171.8
60°	131.2	131.2	132.4	132.4	133.5	133.5	133.5	132.4	132.4	131.2	131.2
62.5°	98.7	99.8	101.0	99.8	99.8	99.8	98.7	98.7	97.5	96.3	96.3
65°	66.2	65.0	67.3	65.0	66.2	66.2	65.0	66.2	62.7	63.8	62.7
67.5°	47.6	46.4	45.3	46.4	45.3	44.1	44.1	45.3	46.4	43.0	43.0
70°	31.3	32.5	31.3	32.5	33.7	33.7	32.5	31.3	32.5	30.2	31.3
72.5°	19.7	19.7	19.7	19.7	19.7	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: P248957

CATALOG NUMBER: LD8B70D010 ER8B709727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6
2.5°	2404.4	2403.2	2404.4	2405.5	2404.4	2403.2	2404.4	2405.5	2400.9	2399.7	2402.0
5°	2455.4	2455.4	2457.7	2458.9	2457.7	2455.4	2455.4	2450.8	2447.3	2443.8	2442.7
7.5°	2499.5	2501.9	2504.2	2505.3	2504.2	2501.9	2499.5	2492.6	2485.6	2479.8	2475.2
10°	2526.3	2529.7	2534.4	2536.7	2534.4	2529.7	2526.3	2518.1	2508.8	2499.5	2492.6
12.5°	2537.9	2541.4	2547.1	2546.0	2547.1	2541.4	2537.9	2526.3	2515.8	2503.0	2492.6
15°	2529.7	2534.4	2540.2	2542.5	2540.2	2534.4	2529.7	2518.1	2508.8	2494.9	2484.4
17.5°	2504.2	2511.2	2514.6	2518.1	2514.6	2511.2	2504.2	2494.9	2482.1	2470.5	2460.1
20°	2469.3	2474.0	2478.7	2479.8	2478.7	2474.0	2469.3	2458.9	2439.2	2436.8	2428.7
22.5°	2419.5	2422.9	2433.4	2429.9	2433.4	2422.9	2419.5	2410.1	2403.2	2390.4	2382.3
25°	2347.4	2350.9	2352.1	2353.3	2352.1	2350.9	2347.4	2339.3	2332.4	2323.1	2318.4
27.5°	2223.2	2223.2	2225.5	2226.7	2225.5	2223.2	2223.2	2217.4	2212.8	2208.1	2203.5
30°	2035.2	2035.2	2035.2	2041.0	2035.2	2035.2	2035.2	2034.0	2034.0	2035.2	2035.2
32.5°	1818.1	1815.7	1813.4	1815.7	1813.4	1815.7	1818.1	1819.2	1818.1	1821.6	1827.3
35°	1571.9	1570.8	1574.3	1569.6	1574.3	1570.8	1571.9	1571.9	1576.6	1581.2	1582.4
37.5°	1336.2	1333.9	1338.6	1333.9	1338.6	1333.9	1336.2	1335.1	1333.9	1336.2	1332.8
40°	1112.2	1114.5	1114.5	1123.8	1114.5	1114.5	1112.2	1109.9	1101.8	1097.1	1092.5
42.5°	897.4	904.4	902.1	909.0	902.1	904.4	897.4	892.8	883.5	875.3	868.4
45°	694.2	698.9	698.9	701.2	698.9	698.9	694.2	689.6	681.5	674.5	669.9
47.5°	532.9	532.9	532.9	534.1	532.9	532.9	532.9	524.7	522.4	517.8	512.0
50°	405.2	406.3	407.5	408.7	407.5	406.3	405.2	402.8	401.7	399.3	398.2
52.5°	311.1	312.3	310.0	312.3	310.0	312.3	311.1	312.3	308.8	308.8	307.6
55°	235.7	234.5	235.7	236.8	235.7	234.5	235.7	235.7	234.5	234.5	234.5
57.5°	173.0	170.6	170.6	170.6	170.6	170.6	173.0	171.8	175.3	173.0	174.1
60°	128.9	130.0	130.0	131.2	130.0	130.0	128.9	131.2	131.2	132.4	132.4
62.5°	95.2	98.7	96.3	98.7	96.3	98.7	95.2	96.3	96.3	97.5	98.7
65°	61.5	61.5	61.5	62.7	61.5	61.5	61.5	62.7	63.8	62.7	66.2
67.5°	41.8	43.0	45.3	44.1	45.3	43.0	41.8	43.0	43.0	46.4	45.3
70°	33.7	30.2	30.2	33.7	30.2	30.2	33.7	31.3	30.2	32.5	31.3
72.5°	19.7	17.4	19.7	19.7	19.7	17.4	19.7	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: P248957

CATALOG NUMBER: LD8B70D010 ER8B709727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6
2.5°	2402.0	2398.5	2399.7	2392.7	2392.7	2390.4	2391.6	2385.8	2383.5	2381.1	2384.6
5°	2436.8	2431.1	2426.4	2416.0	2410.1	2403.2	2399.7	2390.4	2382.3	2375.3	2374.2
7.5°	2464.7	2451.9	2443.8	2429.9	2419.5	2411.3	2399.7	2386.9	2376.5	2367.2	2360.2
10°	2476.3	2463.6	2450.8	2433.4	2421.7	2406.6	2395.0	2378.8	2364.9	2352.1	2344.0
12.5°	2477.5	2461.2	2449.6	2429.9	2414.8	2398.5	2385.8	2367.2	2350.9	2338.2	2325.4
15°	2467.0	2451.9	2438.0	2417.1	2402.0	2386.9	2371.9	2352.1	2337.0	2321.9	2312.7
17.5°	2443.8	2429.9	2413.6	2393.9	2380.0	2366.0	2349.8	2333.5	2316.1	2299.8	2288.2
20°	2413.6	2398.5	2384.6	2364.9	2353.3	2338.2	2323.1	2305.7	2291.7	2275.5	2262.7
22.5°	2368.4	2354.4	2341.7	2330.0	2311.5	2299.8	2289.4	2269.7	2255.7	2240.6	2226.7
25°	2303.3	2289.4	2279.0	2265.0	2256.9	2244.1	2233.7	2216.3	2203.5	2189.6	2177.9
27.5°	2196.5	2188.4	2182.6	2174.5	2167.5	2161.7	2155.9	2142.0	2132.7	2119.9	2108.3
30°	2036.3	2035.2	2031.7	2028.2	2032.8	2032.8	2032.8	2030.5	2022.4	2013.1	2005.0
32.5°	1830.8	1833.2	1837.8	1841.3	1850.6	1861.0	1870.3	1874.9	1874.9	1869.2	1865.7
35°	1585.9	1589.4	1596.3	1605.6	1617.2	1630.0	1650.9	1655.5	1659.0	1659.0	1654.4
37.5°	1331.6	1330.5	1337.4	1345.6	1352.5	1361.8	1376.9	1380.4	1386.2	1383.9	1379.2
40°	1084.3	1078.5	1076.2	1078.5	1086.7	1083.2	1086.7	1084.3	1084.3	1076.2	1076.2
42.5°	855.6	848.7	844.0	840.6	840.6	832.4	826.6	820.8	817.3	811.5	810.4
45°	659.4	651.3	645.5	643.2	639.7	629.2	622.3	615.3	607.2	604.9	606.0
47.5°	512.0	503.9	501.5	495.7	489.9	484.1	479.5	471.4	470.2	465.5	470.2
50°	394.7	392.4	388.9	386.6	383.1	378.5	373.8	369.2	366.9	366.9	368.0
52.5°	306.5	307.6	304.2	300.7	298.4	298.4	292.5	291.4	291.4	286.8	291.4
55°	234.5	233.3	234.5	232.2	232.2	228.7	228.7	225.2	225.2	221.7	224.1
57.5°	171.8	174.1	171.8	173.0	175.3	171.8	170.6	167.2	169.5	167.2	168.4
60°	133.5	133.5	133.5	132.4	132.4	131.2	131.2	130.0	130.0	127.7	130.0
62.5°	98.7	99.8	99.8	99.8	101.0	99.8	98.7	99.8	98.7	98.7	99.8
65°	65.0	66.2	66.2	65.0	67.3	65.0	66.2	67.3	68.5	67.3	68.5
67.5°	44.1	44.1	45.3	46.4	45.3	46.4	47.6	46.4	47.6	49.9	47.6
70°	32.5	33.7	33.7	32.5	31.3	32.5	31.3	34.8	34.8	34.8	37.1
72.5°	20.9	20.9	19.7	19.7	19.7	19.7	19.7	23.2	20.9	19.7	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: P248957

CATALOG NUMBER: LD8B70D010 ER8B709727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6
2.5°	2375.3	2375.3	2374.2	2371.9	2367.2	2367.2	2366.0	2362.5	2360.2	2359.1	2359.1
5°	2363.7	2359.1	2354.4	2341.7	2341.7	2339.3	2332.4	2327.7	2325.4	2319.6	2317.3
7.5°	2353.3	2339.3	2331.2	2323.1	2312.7	2308.0	2299.8	2296.4	2288.2	2282.5	2279.0
10°	2327.7	2318.4	2308.0	2295.2	2287.1	2277.8	2268.5	2261.6	2251.1	2245.3	2240.6
12.5°	2310.3	2296.4	2287.1	2273.1	2259.2	2251.1	2238.3	2230.2	2219.8	2208.1	2201.2
15°	2294.1	2279.0	2266.2	2251.1	2236.0	2226.7	2211.6	2202.4	2187.3	2175.7	2167.5
17.5°	2269.7	2256.9	2243.0	2224.4	2210.5	2198.9	2182.6	2171.0	2157.1	2142.0	2133.8
20°	2244.1	2229.0	2215.1	2196.5	2182.6	2168.7	2152.4	2139.7	2123.4	2109.5	2100.2
22.5°	2210.5	2193.0	2181.4	2162.8	2146.6	2131.5	2116.4	2101.3	2086.2	2074.6	2064.2
25°	2161.7	2143.1	2130.3	2115.2	2100.2	2088.6	2070.0	2060.7	2045.6	2035.2	2024.7
27.5°	2092.0	2078.1	2066.5	2051.4	2038.6	2029.4	2015.4	2006.2	1993.3	1984.1	1976.0
30°	1989.9	1978.3	1967.8	1952.7	1943.5	1935.3	1922.5	1914.4	1905.1	1894.7	1892.4
32.5°	1852.9	1843.6	1833.2	1822.7	1815.7	1811.1	1800.6	1796.0	1786.7	1780.9	1775.1
35°	1646.2	1638.1	1632.3	1627.7	1625.3	1626.5	1624.2	1628.8	1631.1	1630.0	1631.1
37.5°	1375.8	1371.1	1373.4	1376.9	1388.5	1403.6	1417.5	1438.4	1452.4	1466.3	1479.1
40°	1073.9	1077.4	1086.7	1107.5	1137.7	1171.4	1202.8	1242.2	1281.7	1309.6	1335.1
42.5°	810.4	820.8	844.0	874.2	919.5	969.4	1018.2	1076.2	1123.8	1170.2	1202.8
45°	609.5	623.4	653.6	695.4	745.3	803.4	864.9	929.9	986.8	1034.4	1070.4
47.5°	474.8	487.6	517.8	561.9	623.4	683.8	747.7	815.0	874.2	920.6	952.0
50°	375.0	391.2	417.9	464.4	525.9	589.8	656.0	722.1	777.9	817.3	845.2
52.5°	294.9	310.0	335.5	384.3	447.0	510.8	572.3	637.4	686.1	724.4	743.0
55°	228.7	242.7	269.3	310.0	369.2	431.9	493.4	549.2	594.4	622.3	639.7
57.5°	174.1	184.6	203.2	243.8	297.2	355.2	407.5	463.2	498.1	517.8	529.4
60°	132.4	140.5	160.2	191.6	240.3	290.3	334.4	376.2	404.0	420.3	431.9
62.5°	99.8	109.1	123.0	149.8	186.9	227.6	264.7	296.0	319.3	329.7	337.8
65°	68.5	75.5	85.9	106.8	138.1	167.2	196.2	219.4	234.5	246.1	250.8
67.5°	51.1	55.7	61.5	77.8	99.8	123.0	142.8	159.0	175.3	180.0	188.1
70°	38.3	41.8	47.6	59.2	72.0	88.2	104.5	113.8	125.4	133.5	135.9
72.5°	24.4	25.5	31.3	38.3	48.7	59.2	69.7	77.8	84.8	89.4	91.7
75°	14.0	20.9	20.9	27.9	34.8	39.5	46.4	52.2	55.7	59.2	59.2
77.5°	9.3	12.8	14.0	17.4	20.9	26.7	32.5	36.0	39.5	40.6	40.6
80°	8.1	9.3	9.3	12.8	15.1	19.7	23.2	24.4	26.7	27.9	30.2
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: P248957

CATALOG NUMBER: LD8B70D010 ER8B709727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6	2377.6
2.5°	2356.8	2357.9	2353.3	2352.1	2349.8	2350.9	2353.3
5°	2313.8	2314.9	2310.3	2305.7	2305.7	2304.5	2305.7
7.5°	2273.1	2274.3	2267.4	2265.0	2260.4	2261.6	2261.6
10°	2232.5	2232.5	2222.1	2220.9	2217.4	2216.3	2216.3
12.5°	2193.0	2189.6	2181.4	2176.8	2179.1	2172.2	2172.2
15°	2158.2	2152.4	2142.0	2138.5	2132.7	2130.3	2130.3
17.5°	2122.2	2117.6	2108.3	2101.3	2094.4	2093.2	2094.4
20°	2087.4	2082.8	2071.1	2066.5	2060.7	2060.7	2058.4
22.5°	2052.6	2047.9	2037.5	2034.0	2025.9	2025.9	2027.0
25°	2016.6	2013.1	2001.5	1999.2	1998.0	1993.3	1995.7
27.5°	1967.8	1965.5	1956.2	1952.7	1948.1	1946.9	1949.2
30°	1878.4	1874.9	1868.0	1864.5	1856.4	1857.5	1859.8
32.5°	1767.0	1762.3	1753.0	1749.5	1742.6	1740.3	1741.4
35°	1627.7	1624.2	1616.1	1616.1	1609.1	1606.8	1609.1
37.5°	1486.0	1489.5	1486.0	1489.5	1486.0	1484.9	1486.0
40°	1352.5	1365.3	1367.6	1380.4	1375.8	1382.7	1381.5
42.5°	1224.8	1245.7	1253.9	1264.3	1262.0	1266.6	1270.1
45°	1095.9	1113.4	1121.5	1128.5	1129.6	1132.0	1133.1
47.5°	974.0	988.0	989.1	997.2	996.1	996.1	999.6
50°	860.3	869.6	871.9	877.7	873.1	870.7	871.9
52.5°	754.6	763.9	761.6	763.9	758.1	755.8	756.9
55°	646.6	651.3	651.3	651.3	644.3	644.3	644.3
57.5°	536.4	537.5	535.2	536.4	535.2	528.2	527.1
60°	435.4	435.4	434.2	435.4	431.9	428.4	428.4
62.5°	340.1	342.5	347.1	342.5	340.1	342.5	339.0
65°	254.3	258.9	257.7	260.1	258.9	258.9	256.6
67.5°	191.6	192.7	193.9	195.1	195.1	195.1	195.1
70°	140.5	144.0	142.8	142.8	142.8	142.8	149.8
72.5°	94.0	98.7	97.5	99.8	99.8	102.2	99.8
75°	63.8	68.5	66.2	69.7	68.5	66.2	72.0
77.5°	43.0	45.3	46.4	47.6	46.4	45.3	46.4
80°	30.2	32.5	31.3	32.5	32.5	32.5	33.7
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)