

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: P246023

Luminaire Tested: **LD8B50D010 ER8B509727 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246023
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 ER8B509727 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3793.0 lumens
Efficiency: N/A
Efficacy: 71.6 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

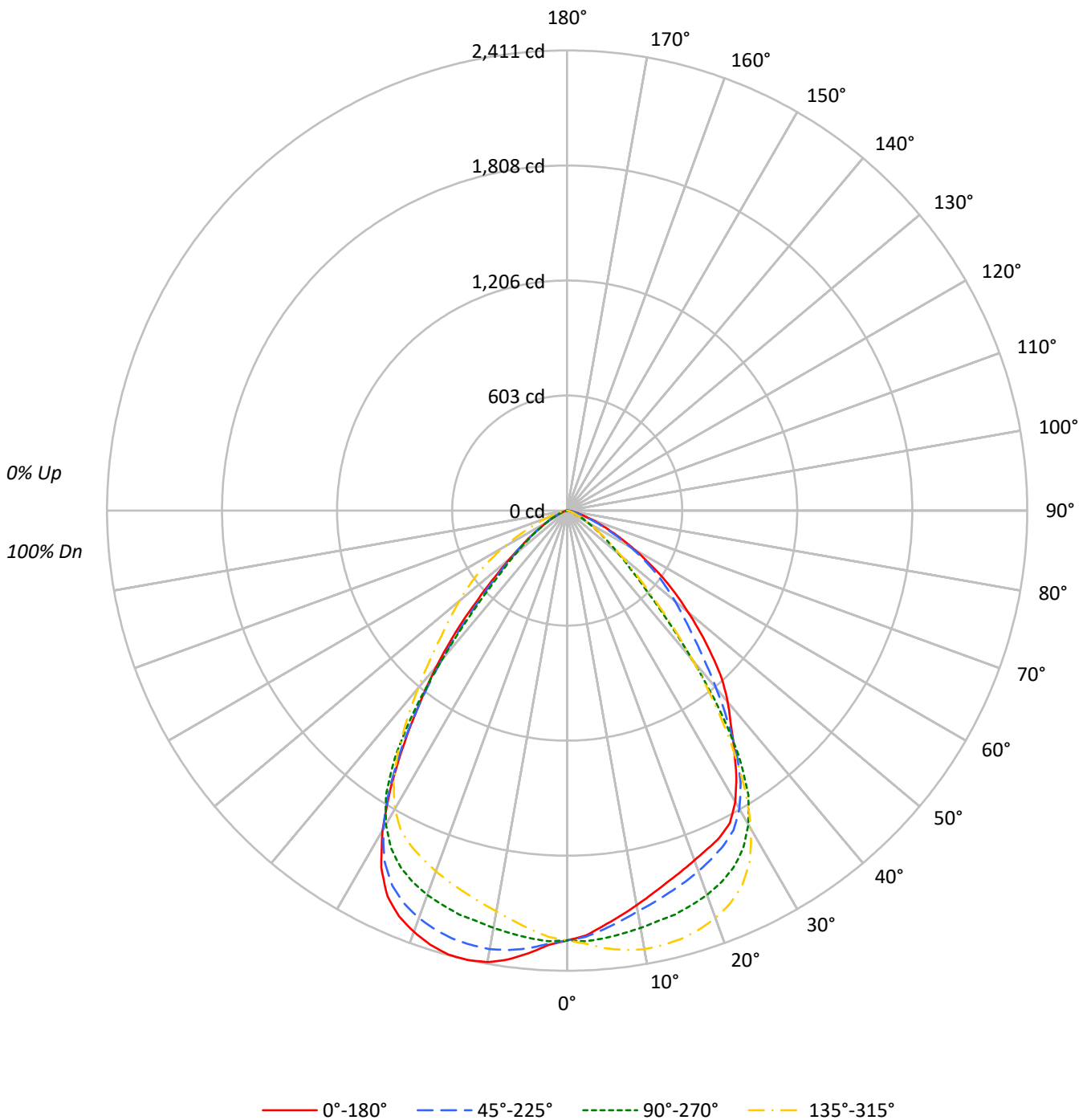
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	214.3	5.7
10°-20°	620.7	16.4
20°-30°	939.8	24.8
30°-40°	941.9	24.8
40°-50°	591.5	15.6
50°-60°	315.2	8.3
60°-70°	129.6	3.4
70°-80°	34.3	0.9
80°-90°	5.8	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°	1774.8	46.8
0°-40°	2716.7	71.6
0°-60°	3623.3	95.5
0°-90°	3793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3793.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2252	2252	2252	2252	2252	
5°	2184	2248	2329	2248	2184	206
15°	2018	2190	2408	2190	2018	571
25°	1890	2063	2229	2063	1890	867
35°	1524	1567	1486	1567	1524	955
45°	1073	574	664	574	1073	825
55°	610	212	224	212	610	544
65°	243	65	59	65	243	252
75°	68	13	11	13	68	77
85°	14	0	1	0	14	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°	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8
2.5°	2228.7	2226.5	2225.4	2227.6	2228.7	2233.1	2232.0	2234.2	2234.2	2235.3	2237.5
5°	2183.6	2182.5	2183.6	2183.6	2188.0	2192.4	2191.3	2194.6	2196.8	2202.3	2204.5
7.5°	2141.9	2141.9	2140.7	2145.1	2147.3	2153.9	2152.8	2158.3	2161.6	2167.1	2174.8
10°	2099.0	2099.0	2100.0	2103.3	2104.5	2114.3	2114.3	2122.0	2126.4	2131.9	2141.9
12.5°	2057.2	2057.2	2063.8	2061.6	2066.0	2073.7	2077.0	2084.7	2091.3	2102.3	2112.2
15°	2017.6	2017.6	2019.8	2025.3	2028.6	2038.5	2044.0	2052.8	2060.5	2071.5	2085.8
17.5°	1983.5	1982.4	1983.5	1990.1	1996.7	2005.5	2009.9	2020.9	2028.6	2042.9	2056.1
20°	1949.4	1951.6	1951.6	1957.1	1961.5	1972.5	1976.9	1989.0	1997.8	2011.0	2026.4
22.5°	1919.7	1918.7	1918.7	1926.3	1929.6	1939.5	1943.9	1954.9	1964.8	1975.8	1990.1
25°	1890.0	1887.8	1892.3	1893.4	1895.5	1906.5	1909.8	1917.5	1927.4	1937.3	1951.6
27.5°	1846.1	1843.9	1845.0	1849.4	1852.7	1861.4	1863.7	1871.4	1879.1	1887.8	1900.0
30°	1761.4	1759.2	1758.1	1765.8	1769.1	1775.7	1779.0	1792.2	1794.4	1804.3	1813.1
32.5°	1649.2	1648.2	1650.4	1656.9	1660.2	1669.1	1673.5	1681.1	1686.6	1692.1	1700.9
35°	1523.9	1521.7	1523.9	1530.5	1530.5	1538.2	1541.5	1544.8	1543.7	1544.8	1542.6
37.5°	1407.4	1406.3	1407.4	1410.6	1407.4	1410.6	1407.4	1400.8	1388.7	1375.5	1362.3
40°	1308.4	1309.5	1302.9	1307.3	1295.2	1293.0	1280.9	1264.4	1240.3	1213.9	1176.5
42.5°	1202.9	1199.6	1195.2	1197.4	1187.5	1179.7	1160.0	1139.1	1108.3	1064.3	1019.2
45°	1073.1	1072.0	1069.8	1068.7	1062.1	1054.4	1037.9	1013.7	979.7	934.6	880.7
47.5°	946.7	943.4	943.4	944.5	936.8	935.7	922.5	901.6	871.9	827.9	771.9
50°	825.7	824.6	826.8	831.2	825.7	823.5	814.8	800.5	774.1	736.7	683.9
52.5°	716.9	715.8	718.0	723.5	721.3	723.5	714.7	703.7	686.1	649.8	603.6
55°	610.2	610.2	610.2	616.8	616.8	616.8	612.4	605.8	589.3	562.9	520.1
57.5°	499.2	500.3	506.9	508.0	506.9	509.1	508.0	501.4	490.4	471.7	438.7
60°	405.7	405.7	409.0	412.3	411.2	412.3	412.3	409.0	398.0	382.6	356.3
62.5°	321.0	324.4	322.1	324.4	328.7	324.4	322.1	320.0	312.3	302.4	280.4
65°	243.0	245.2	245.2	246.3	244.1	245.2	240.8	237.5	233.1	222.1	207.8
67.5°	184.7	184.7	184.7	184.7	183.6	182.5	181.4	178.1	170.4	166.0	150.6
70°	141.8	135.2	135.2	135.2	135.2	136.4	133.1	128.7	126.4	118.8	107.8
72.5°	94.5	96.8	94.5	94.5	92.4	93.5	89.1	86.8	84.7	80.3	73.7
75°	68.2	62.7	64.9	66.0	62.7	64.9	60.5	56.1	56.1	52.8	49.5
77.5°	44.0	42.9	44.0	45.1	44.0	42.9	40.7	38.5	38.5	37.4	34.1
80°	31.9	30.8	30.8	30.8	29.7	30.8	28.6	28.6	26.4	25.3	23.1
82.5°	20.9	20.9	19.8	20.9	19.8	20.9	17.6	17.6	17.6	16.5	14.3
85°	14.3	12.1	12.1	13.2	11.0	13.2	12.1	11.0	9.9	9.9	8.8
87.5°	6.6	7.7	6.6	7.7	6.6	6.6	7.7	6.6	6.6	4.4	4.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8
2.5°	2240.8	2241.9	2241.9	2246.3	2248.5	2249.6	2249.6	2258.4	2255.1	2257.3	2259.5
5°	2208.9	2215.5	2217.7	2217.7	2229.8	2234.2	2238.6	2248.5	2249.6	2256.2	2263.9
7.5°	2178.1	2185.8	2190.2	2200.1	2207.8	2215.5	2228.7	2235.3	2241.9	2250.7	2260.6
10°	2148.4	2157.2	2166.0	2173.7	2185.8	2195.7	2204.5	2219.9	2227.6	2239.7	2252.9
12.5°	2119.9	2131.9	2139.6	2152.8	2166.0	2174.8	2188.0	2202.3	2214.4	2226.5	2241.9
15°	2094.6	2108.9	2117.6	2131.9	2146.2	2158.3	2172.6	2190.2	2199.0	2213.3	2227.6
17.5°	2067.0	2082.5	2093.5	2106.6	2124.3	2137.4	2149.5	2167.1	2178.1	2193.5	2210.0
20°	2038.5	2053.9	2067.0	2080.3	2097.9	2111.0	2125.3	2142.9	2155.0	2170.4	2183.6
22.5°	2004.4	2018.7	2033.0	2048.4	2066.0	2077.0	2093.5	2108.9	2122.0	2136.3	2149.5
25°	1960.4	1978.0	1989.0	2003.3	2017.6	2029.7	2047.3	2062.7	2073.7	2086.9	2099.0
27.5°	1908.7	1922.0	1930.7	1942.8	1957.1	1968.1	1981.3	1996.7	2007.7	2019.8	2028.6
30°	1820.8	1832.9	1840.6	1849.4	1863.7	1873.6	1884.6	1898.8	1906.5	1915.3	1923.0
32.5°	1705.3	1715.2	1719.6	1726.2	1736.1	1746.0	1754.8	1766.9	1770.2	1775.7	1775.7
35°	1538.2	1540.4	1539.3	1541.5	1545.9	1551.4	1559.1	1566.8	1571.2	1571.2	1567.9
37.5°	1342.5	1329.3	1315.0	1304.0	1300.7	1298.5	1302.9	1306.2	1310.6	1312.8	1307.3
40°	1139.1	1109.4	1077.5	1048.9	1029.1	1020.4	1017.1	1019.2	1019.2	1026.9	1026.9
42.5°	964.3	918.1	870.8	827.9	799.3	777.4	767.5	767.5	768.5	774.1	777.4
45°	819.1	760.9	705.9	658.6	619.0	590.4	577.2	573.9	572.9	575.0	582.7
47.5°	708.1	647.6	590.4	532.2	490.4	461.8	449.7	445.3	440.9	445.3	446.4
50°	621.2	558.6	498.1	439.8	395.8	370.5	355.1	348.5	347.4	347.4	349.7
52.5°	542.0	483.8	423.3	364.0	317.7	293.6	279.3	276.0	271.6	276.0	276.0
55°	467.3	409.0	349.7	293.6	255.1	229.8	216.6	212.2	210.0	213.3	213.3
57.5°	385.9	336.4	281.5	230.9	192.4	174.8	164.9	159.4	158.3	160.5	158.3
60°	316.7	274.9	227.6	181.4	151.7	133.1	125.4	123.1	120.9	123.1	123.1
62.5°	250.7	215.5	177.0	141.8	116.5	103.4	94.5	94.5	93.5	93.5	94.5
65°	185.8	158.3	130.8	101.1	81.4	71.5	64.9	64.9	63.8	64.9	63.8
67.5°	135.2	116.5	94.5	73.7	58.3	52.8	48.4	45.1	47.3	45.1	44.0
70°	99.0	83.5	68.2	56.1	45.1	39.6	36.3	35.2	33.0	33.0	33.0
72.5°	66.0	56.1	46.2	36.3	29.7	24.2	23.1	20.9	18.7	19.8	22.0
75°	44.0	37.4	33.0	26.4	19.8	19.8	13.2	13.2	11.0	13.2	9.9
77.5°	30.8	25.3	19.8	16.5	13.2	12.1	8.8	8.8	7.7	7.7	7.7
80°	22.0	18.7	14.3	12.1	8.8	8.8	7.7	6.6	5.5	5.5	6.6
82.5°	13.2	9.9	9.9	8.8	5.5	4.4	3.3	4.4	2.2	2.2	2.2
85°	7.7	6.6	5.5	3.3	2.2	2.2	1.1	0.0	1.1	1.1	0.0
87.5°	4.4	2.2	2.2	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.2
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°	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8
2.5°	2265.0	2263.9	2266.1	2266.1	2272.7	2271.6	2274.9	2274.9	2272.7	2273.8	2278.2
5°	2272.7	2276.0	2282.6	2288.1	2297.9	2302.4	2307.9	2313.4	2314.5	2317.8	2321.1
7.5°	2272.7	2283.7	2291.4	2301.2	2314.5	2322.2	2334.2	2344.2	2348.5	2354.0	2360.6
10°	2268.3	2279.3	2293.6	2304.6	2321.1	2333.2	2345.2	2360.6	2367.2	2376.0	2384.8
12.5°	2259.5	2271.6	2286.9	2301.2	2319.9	2330.9	2346.3	2360.6	2370.5	2382.6	2392.5
15°	2246.3	2260.6	2274.9	2289.2	2308.9	2322.2	2336.5	2352.9	2362.8	2376.0	2384.8
17.5°	2225.4	2240.8	2254.0	2267.2	2285.9	2301.2	2314.5	2329.9	2339.8	2350.8	2362.8
20°	2200.1	2214.4	2228.7	2239.7	2258.4	2271.6	2285.9	2300.2	2307.9	2310.1	2328.8
22.5°	2168.2	2178.1	2189.1	2206.7	2217.7	2229.8	2243.0	2256.2	2263.9	2276.0	2282.6
25°	2115.4	2125.3	2137.4	2145.1	2158.3	2168.2	2181.4	2195.7	2200.1	2208.9	2215.5
27.5°	2041.8	2047.3	2052.8	2059.4	2067.0	2072.6	2080.3	2086.9	2091.3	2095.6	2100.0
30°	1925.2	1925.2	1925.2	1920.8	1924.1	1927.4	1928.5	1927.4	1927.4	1926.3	1926.3
32.5°	1771.3	1762.5	1752.6	1743.8	1740.5	1736.1	1733.9	1730.6	1725.1	1721.8	1722.9
35°	1563.5	1543.7	1531.6	1520.6	1511.8	1505.2	1501.9	1498.6	1497.5	1493.1	1488.7
37.5°	1304.0	1289.7	1280.9	1274.3	1266.6	1260.0	1261.1	1262.2	1265.5	1263.3	1264.4
40°	1029.1	1025.8	1029.1	1021.4	1019.2	1021.4	1026.9	1034.7	1039.0	1043.4	1051.1
42.5°	782.8	788.3	796.1	796.1	799.3	803.8	810.3	822.4	829.0	836.7	845.5
45°	589.3	595.9	605.8	609.1	611.3	616.8	624.5	634.4	638.8	645.4	653.1
47.5°	454.1	458.5	464.0	469.5	475.0	477.2	484.9	484.9	490.4	494.8	497.0
50°	354.0	358.4	362.8	366.1	368.3	371.6	373.8	377.1	378.2	380.4	381.5
52.5°	277.1	282.6	282.6	284.8	288.1	291.4	290.3	291.4	292.4	292.4	295.8
55°	216.6	216.6	219.9	219.9	222.1	221.0	222.1	222.1	222.1	222.1	223.2
57.5°	161.6	162.7	166.0	163.8	162.7	164.9	162.7	164.9	163.8	166.0	162.7
60°	124.2	124.2	125.4	125.4	126.4	126.4	126.4	125.4	125.4	124.2	124.2
62.5°	93.5	94.5	95.7	94.5	94.5	94.5	93.5	93.5	92.4	91.2	91.2
65°	62.7	61.6	63.8	61.6	62.7	62.7	61.6	62.7	59.4	60.5	59.4
67.5°	45.1	44.0	42.9	44.0	42.9	41.8	41.8	42.9	44.0	40.7	40.7
70°	29.7	30.8	29.7	30.8	31.9	31.9	30.8	29.7	30.8	28.6	29.7
72.5°	18.7	18.7	18.7	18.7	18.7	19.8	19.8	19.8	17.6	17.6	16.5
75°	8.8	12.1	9.9	8.8	12.1	12.1	11.0	11.0	9.9	9.9	9.9
77.5°	8.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	5.5	6.6	5.5
80°	4.4	4.4	4.4	3.3	4.4	4.4	5.5	4.4	4.4	3.3	5.5
82.5°	2.2	2.2	2.2	0.0	1.1	2.2	2.2	1.1	2.2	2.2	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: P246023

CATALOG NUMBER: LD8B50D010 ER8B509727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8
2.5°	2277.1	2276.0	2277.1	2278.2	2277.1	2276.0	2277.1	2278.2	2273.8	2272.7	2274.9
5°	2325.5	2325.5	2327.6	2328.8	2327.6	2325.5	2325.5	2321.1	2317.8	2314.5	2313.4
7.5°	2367.2	2369.5	2371.6	2372.7	2371.6	2369.5	2367.2	2360.6	2354.0	2348.5	2344.2
10°	2392.5	2395.8	2400.2	2402.4	2400.2	2395.8	2392.5	2384.8	2376.0	2367.2	2360.6
12.5°	2403.5	2406.8	2412.3	2411.2	2412.3	2406.8	2403.5	2392.5	2382.6	2370.5	2360.6
15°	2395.8	2400.2	2405.7	2407.9	2405.7	2400.2	2395.8	2384.8	2376.0	2362.8	2352.9
17.5°	2371.6	2378.2	2381.5	2384.8	2381.5	2378.2	2371.6	2362.8	2350.8	2339.8	2329.9
20°	2338.6	2343.1	2347.5	2348.5	2347.5	2343.1	2338.6	2328.8	2310.1	2307.9	2300.2
22.5°	2291.4	2294.7	2304.6	2301.2	2304.6	2294.7	2291.4	2282.6	2276.0	2263.9	2256.2
25°	2223.2	2226.5	2227.6	2228.7	2227.6	2226.5	2223.2	2215.5	2208.9	2200.1	2195.7
27.5°	2105.6	2105.6	2107.7	2108.9	2107.7	2105.6	2105.6	2100.0	2095.6	2091.3	2086.9
30°	1927.4	1927.4	1927.4	1933.0	1927.4	1927.4	1927.4	1926.3	1926.3	1927.4	1927.4
32.5°	1721.8	1719.6	1717.4	1719.6	1717.4	1719.6	1721.8	1722.9	1721.8	1725.1	1730.6
35°	1488.7	1487.6	1490.9	1486.5	1490.9	1487.6	1488.7	1488.7	1493.1	1497.5	1498.6
37.5°	1265.5	1263.3	1267.7	1263.3	1267.7	1263.3	1265.5	1264.4	1263.3	1265.5	1262.2
40°	1053.3	1055.5	1055.5	1064.3	1055.5	1055.5	1053.3	1051.1	1043.4	1039.0	1034.7
42.5°	849.9	856.5	854.3	860.9	854.3	856.5	849.9	845.5	836.7	829.0	822.4
45°	657.5	661.9	661.9	664.1	661.9	661.9	657.5	653.1	645.4	638.8	634.4
47.5°	504.7	504.7	504.7	505.8	504.7	504.7	504.7	497.0	494.8	490.4	484.9
50°	383.7	384.8	385.9	387.0	385.9	384.8	383.7	381.5	380.4	378.2	377.1
52.5°	294.7	295.8	293.6	295.8	293.6	295.8	294.7	295.8	292.4	292.4	291.4
55°	223.2	222.1	223.2	224.3	223.2	222.1	223.2	223.2	222.1	222.1	222.1
57.5°	163.8	161.6	161.6	161.6	161.6	161.6	163.8	162.7	166.0	163.8	164.9
60°	122.1	123.1	123.1	124.2	123.1	123.1	122.1	124.2	124.2	125.4	125.4
62.5°	90.2	93.5	91.2	93.5	91.2	93.5	90.2	91.2	91.2	92.4	93.5
65°	58.3	58.3	58.3	59.4	58.3	58.3	58.3	59.4	60.5	59.4	62.7
67.5°	39.6	40.7	42.9	41.8	42.9	40.7	39.6	40.7	40.7	44.0	42.9
70°	31.9	28.6	28.6	31.9	28.6	28.6	31.9	29.7	28.6	30.8	29.7
72.5°	18.7	16.5	18.7	18.7	18.7	16.5	18.7	16.5	17.6	17.6	19.8
75°	9.9	8.8	7.7	11.0	7.7	8.8	9.9	9.9	9.9	9.9	11.0
77.5°	6.6	5.5	7.7	7.7	7.7	5.5	6.6	5.5	6.6	5.5	6.6
80°	3.3	4.4	3.3	5.5	3.3	4.4	3.3	5.5	3.3	4.4	4.4
82.5°	1.1	2.2	2.2	2.2	2.2	2.2	1.1	1.1	2.2	2.2	1.1
85°	0.0	2.2	1.1	1.1	1.1	2.2	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: P246023

CATALOG NUMBER: LD8B50D010 ER8B509727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8
2.5°	2274.9	2271.6	2272.7	2266.1	2266.1	2263.9	2265.0	2259.5	2257.3	2255.1	2258.4
5°	2307.9	2302.4	2297.9	2288.1	2282.6	2276.0	2272.7	2263.9	2256.2	2249.6	2248.5
7.5°	2334.2	2322.2	2314.5	2301.2	2291.4	2283.7	2272.7	2260.6	2250.7	2241.9	2235.3
10°	2345.2	2333.2	2321.1	2304.6	2293.6	2279.3	2268.3	2252.9	2239.7	2227.6	2219.9
12.5°	2346.3	2330.9	2319.9	2301.2	2286.9	2271.6	2259.5	2241.9	2226.5	2214.4	2202.3
15°	2336.5	2322.2	2308.9	2289.2	2274.9	2260.6	2246.3	2227.6	2213.3	2199.0	2190.2
17.5°	2314.5	2301.2	2285.9	2267.2	2254.0	2240.8	2225.4	2210.0	2193.5	2178.1	2167.1
20°	2285.9	2271.6	2258.4	2239.7	2228.7	2214.4	2200.1	2183.6	2170.4	2155.0	2142.9
22.5°	2243.0	2229.8	2217.7	2206.7	2189.1	2178.1	2168.2	2149.5	2136.3	2122.0	2108.9
25°	2181.4	2168.2	2158.3	2145.1	2137.4	2125.3	2115.4	2099.0	2086.9	2073.7	2062.7
27.5°	2080.3	2072.6	2067.0	2059.4	2052.8	2047.3	2041.8	2028.6	2019.8	2007.7	1996.7
30°	1928.5	1927.4	1924.1	1920.8	1925.2	1925.2	1925.2	1923.0	1915.3	1906.5	1898.8
32.5°	1733.9	1736.1	1740.5	1743.8	1752.6	1762.5	1771.3	1775.7	1775.7	1770.2	1766.9
35°	1501.9	1505.2	1511.8	1520.6	1531.6	1543.7	1563.5	1567.9	1571.2	1571.2	1566.8
37.5°	1261.1	1260.0	1266.6	1274.3	1280.9	1289.7	1304.0	1307.3	1312.8	1310.6	1306.2
40°	1026.9	1021.4	1019.2	1021.4	1029.1	1025.8	1029.1	1026.9	1026.9	1019.2	1019.2
42.5°	810.3	803.8	799.3	796.1	796.1	788.3	782.8	777.4	774.1	768.5	767.5
45°	624.5	616.8	611.3	609.1	605.8	595.9	589.3	582.7	575.0	572.9	573.9
47.5°	484.9	477.2	475.0	469.5	464.0	458.5	454.1	446.4	445.3	440.9	445.3
50°	373.8	371.6	368.3	366.1	362.8	358.4	354.0	349.7	347.4	347.4	348.5
52.5°	290.3	291.4	288.1	284.8	282.6	282.6	277.1	276.0	276.0	271.6	276.0
55°	222.1	221.0	222.1	219.9	219.9	216.6	216.6	213.3	213.3	210.0	212.2
57.5°	162.7	164.9	162.7	163.8	166.0	162.7	161.6	158.3	160.5	158.3	159.4
60°	126.4	126.4	126.4	125.4	125.4	124.2	124.2	123.1	123.1	120.9	123.1
62.5°	93.5	94.5	94.5	94.5	95.7	94.5	93.5	94.5	93.5	93.5	94.5
65°	61.6	62.7	62.7	61.6	63.8	61.6	62.7	63.8	64.9	63.8	64.9
67.5°	41.8	41.8	42.9	44.0	42.9	44.0	45.1	44.0	45.1	47.3	45.1
70°	30.8	31.9	31.9	30.8	29.7	30.8	29.7	33.0	33.0	33.0	35.2
72.5°	19.8	19.8	18.7	18.7	18.7	18.7	18.7	22.0	19.8	18.7	20.9
75°	11.0	12.1	12.1	8.8	9.9	12.1	8.8	9.9	13.2	11.0	13.2
77.5°	6.6	6.6	6.6	6.6	6.6	6.6	8.8	7.7	7.7	7.7	8.8
80°	5.5	4.4	4.4	3.3	4.4	4.4	4.4	6.6	5.5	5.5	6.6
82.5°	2.2	2.2	1.1	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.4
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	2.2	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: P246023

CATALOG NUMBER: LD8B50D010 ER8B509727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8
2.5°	2249.6	2249.6	2248.5	2246.3	2241.9	2241.9	2240.8	2237.5	2235.3	2234.2	2234.2
5°	2238.6	2234.2	2229.8	2217.7	2217.7	2215.5	2208.9	2204.5	2202.3	2196.8	2194.6
7.5°	2228.7	2215.5	2207.8	2200.1	2190.2	2185.8	2178.1	2174.8	2167.1	2161.6	2158.3
10°	2204.5	2195.7	2185.8	2173.7	2166.0	2157.2	2148.4	2141.9	2131.9	2126.4	2122.0
12.5°	2188.0	2174.8	2166.0	2152.8	2139.6	2131.9	2119.9	2112.2	2102.3	2091.3	2084.7
15°	2172.6	2158.3	2146.2	2131.9	2117.6	2108.9	2094.6	2085.8	2071.5	2060.5	2052.8
17.5°	2149.5	2137.4	2124.3	2106.6	2093.5	2082.5	2067.0	2056.1	2042.9	2028.6	2020.9
20°	2125.3	2111.0	2097.9	2080.3	2067.0	2053.9	2038.5	2026.4	2011.0	1997.8	1989.0
22.5°	2093.5	2077.0	2066.0	2048.4	2033.0	2018.7	2004.4	1990.1	1975.8	1964.8	1954.9
25°	2047.3	2029.7	2017.6	2003.3	1989.0	1978.0	1960.4	1951.6	1937.3	1927.4	1917.5
27.5°	1981.3	1968.1	1957.1	1942.8	1930.7	1922.0	1908.7	1900.0	1887.8	1879.1	1871.4
30°	1884.6	1873.6	1863.7	1849.4	1840.6	1832.9	1820.8	1813.1	1804.3	1794.4	1792.2
32.5°	1754.8	1746.0	1736.1	1726.2	1719.6	1715.2	1705.3	1700.9	1692.1	1686.6	1681.1
35°	1559.1	1551.4	1545.9	1541.5	1539.3	1540.4	1538.2	1542.6	1544.8	1543.7	1544.8
37.5°	1302.9	1298.5	1300.7	1304.0	1315.0	1329.3	1342.5	1362.3	1375.5	1388.7	1400.8
40°	1017.1	1020.4	1029.1	1048.9	1077.5	1109.4	1139.1	1176.5	1213.9	1240.3	1264.4
42.5°	767.5	777.4	799.3	827.9	870.8	918.1	964.3	1019.2	1064.3	1108.3	1139.1
45°	577.2	590.4	619.0	658.6	705.9	760.9	819.1	880.7	934.6	979.7	1013.7
47.5°	449.7	461.8	490.4	532.2	590.4	647.6	708.1	771.9	827.9	871.9	901.6
50°	355.1	370.5	395.8	439.8	498.1	558.6	621.2	683.9	736.7	774.1	800.5
52.5°	279.3	293.6	317.7	364.0	423.3	483.8	542.0	603.6	649.8	686.1	703.7
55°	216.6	229.8	255.1	293.6	349.7	409.0	467.3	520.1	562.9	589.3	605.8
57.5°	164.9	174.8	192.4	230.9	281.5	336.4	385.9	438.7	471.7	490.4	501.4
60°	125.4	133.1	151.7	181.4	227.6	274.9	316.7	356.3	382.6	398.0	409.0
62.5°	94.5	103.4	116.5	141.8	177.0	215.5	250.7	280.4	302.4	312.3	320.0
65°	64.9	71.5	81.4	101.1	130.8	158.3	185.8	207.8	222.1	233.1	237.5
67.5°	48.4	52.8	58.3	73.7	94.5	116.5	135.2	150.6	166.0	170.4	178.1
70°	36.3	39.6	45.1	56.1	68.2	83.5	99.0	107.8	118.8	126.4	128.7
72.5°	23.1	24.2	29.7	36.3	46.2	56.1	66.0	73.7	80.3	84.7	86.8
75°	13.2	19.8	19.8	26.4	33.0	37.4	44.0	49.5	52.8	56.1	56.1
77.5°	8.8	12.1	13.2	16.5	19.8	25.3	30.8	34.1	37.4	38.5	38.5
80°	7.7	8.8	8.8	12.1	14.3	18.7	22.0	23.1	25.3	26.4	28.6
82.5°	3.3	4.4	5.5	8.8	9.9	9.9	13.2	14.3	16.5	17.6	17.6
85°	1.1	2.2	2.2	3.3	5.5	6.6	7.7	8.8	9.9	9.9	11.0
87.5°	1.1	1.1	0.0	1.1	2.2	2.2	4.4	4.4	4.4	6.6	6.6
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: P246023

CATALOG NUMBER: LD8B50D010 ER8B509727 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8	2251.8
2.5°	2232.0	2233.1	2228.7	2227.6	2225.4	2226.5	2228.7
5°	2191.3	2192.4	2188.0	2183.6	2183.6	2182.5	2183.6
7.5°	2152.8	2153.9	2147.3	2145.1	2140.7	2141.9	2141.9
10°	2114.3	2114.3	2104.5	2103.3	2100.0	2099.0	2099.0
12.5°	2077.0	2073.7	2066.0	2061.6	2063.8	2057.2	2057.2
15°	2044.0	2038.5	2028.6	2025.3	2019.8	2017.6	2017.6
17.5°	2009.9	2005.5	1996.7	1990.1	1983.5	1982.4	1983.5
20°	1976.9	1972.5	1961.5	1957.1	1951.6	1951.6	1949.4
22.5°	1943.9	1939.5	1929.6	1926.3	1918.7	1918.7	1919.7
25°	1909.8	1906.5	1895.5	1893.4	1892.3	1887.8	1890.0
27.5°	1863.7	1861.4	1852.7	1849.4	1845.0	1843.9	1846.1
30°	1779.0	1775.7	1769.1	1765.8	1758.1	1759.2	1761.4
32.5°	1673.5	1669.1	1660.2	1656.9	1650.4	1648.2	1649.2
35°	1541.5	1538.2	1530.5	1530.5	1523.9	1521.7	1523.9
37.5°	1407.4	1410.6	1407.4	1410.6	1407.4	1406.3	1407.4
40°	1280.9	1293.0	1295.2	1307.3	1302.9	1309.5	1308.4
42.5°	1160.0	1179.7	1187.5	1197.4	1195.2	1199.6	1202.9
45°	1037.9	1054.4	1062.1	1068.7	1069.8	1072.0	1073.1
47.5°	922.5	935.7	936.8	944.5	943.4	943.4	946.7
50°	814.8	823.5	825.7	831.2	826.8	824.6	825.7
52.5°	714.7	723.5	721.3	723.5	718.0	715.8	716.9
55°	612.4	616.8	616.8	616.8	610.2	610.2	610.2
57.5°	508.0	509.1	506.9	508.0	506.9	500.3	499.2
60°	412.3	412.3	411.2	412.3	409.0	405.7	405.7
62.5°	322.1	324.4	328.7	324.4	322.1	324.4	321.0
65°	240.8	245.2	244.1	246.3	245.2	245.2	243.0
67.5°	181.4	182.5	183.6	184.7	184.7	184.7	184.7
70°	133.1	136.4	135.2	135.2	135.2	135.2	141.8
72.5°	89.1	93.5	92.4	94.5	94.5	96.8	94.5
75°	60.5	64.9	62.7	66.0	64.9	62.7	68.2
77.5°	40.7	42.9	44.0	45.1	44.0	42.9	44.0
80°	28.6	30.8	29.7	30.8	30.8	30.8	31.9
82.5°	17.6	20.9	19.8	20.9	19.8	20.9	20.9
85°	12.1	13.2	11.0	13.2	12.1	12.1	14.3
87.5°	7.7	6.6	6.6	7.7	6.6	7.7	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)