

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: P245866

Luminaire Tested: **LD8B40D010 ER8B40940 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245866
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: LD8B40D010 ER8B40940 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3627.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

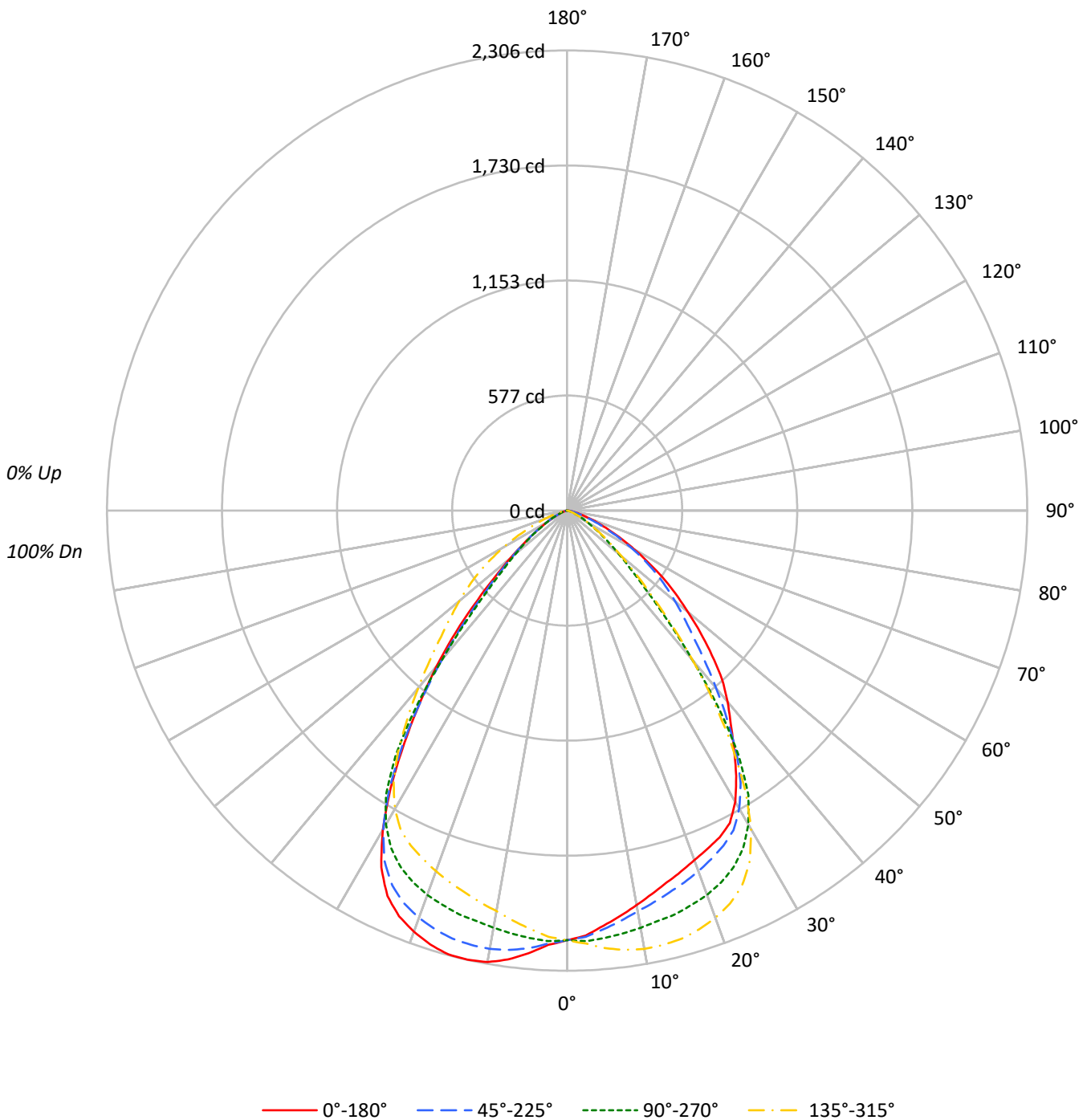
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	66397	66397	66397	66397
5°	64635	66554	68929	66554
10°	62846	66466	71933	66466
15°	61591	66862	73505	66862
20°	61171	67245	73697	67245
25°	61492	67109	72512	67109
30°	59972	64651	65815	64651
35°	54855	56399	53511	56399
40°	50362	39231	40970	39231
45°	44752	23933	27692	23933
50°	37879	15989	17755	15989
55°	31370	10908	11532	10908
60°	23929	7265	7327	7265
65°	16950	4524	4144	4524
70°	12226	3029	2750	3029
75°	7768	1501	1251	1501
80°	5416	1119	923	1119
85°	4847	0	354	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	5.7
10°-20°	593.5	16.4
20°-30°	898.7	24.8
30°-40°	900.7	24.8
40°-50°	565.6	15.6
50°-60°	301.4	8.3
60°-70°	123.9	3.4
70°-80°	32.7	0.9
80°-90°	5.5	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°	1697.1	46.8
0°-40°	2597.8	71.6
0°-60°	3464.8	95.5
0°-90°	3627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3627.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2153	2153	2153	2153	2153	
5°	2088	2150	2227	2150	2088	197
15°	1929	2094	2302	2094	1929	546
25°	1807	1972	2131	1972	1807	829
35°	1457	1498	1422	1498	1457	913
45°	1026	549	635	549	1026	789
55°	584	203	214	203	584	520
65°	232	62	57	62	232	241
75°	65	13	10	13	65	74
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°	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2
2.5°	2131.2	2129.0	2128.0	2130.1	2131.2	2135.4	2134.3	2136.4	2136.4	2137.5	2139.6
5°	2088.1	2087.0	2088.1	2088.1	2092.3	2096.5	2095.4	2098.6	2100.7	2105.9	2108.0
7.5°	2048.1	2048.1	2047.0	2051.2	2053.4	2059.7	2058.6	2063.9	2067.0	2072.3	2079.6
10°	2007.1	2007.1	2008.1	2011.3	2012.4	2021.8	2021.8	2029.2	2033.4	2038.6	2048.1
12.5°	1967.1	1967.1	1973.5	1971.3	1975.5	1982.9	1986.1	1993.4	1999.7	2010.3	2019.7
15°	1929.3	1929.3	1931.4	1936.6	1939.8	1949.3	1954.5	1963.0	1970.3	1980.8	1994.5
17.5°	1896.7	1895.7	1896.7	1903.0	1909.3	1917.7	1921.9	1932.4	1939.8	1953.5	1966.1
20°	1864.1	1866.2	1866.2	1871.5	1875.7	1886.2	1890.4	1902.0	1910.4	1923.0	1937.7
22.5°	1835.7	1834.7	1834.7	1842.0	1845.2	1854.6	1858.8	1869.3	1878.8	1889.3	1903.0
25°	1807.3	1805.2	1809.5	1810.5	1812.6	1823.1	1826.2	1833.6	1843.1	1852.6	1866.2
27.5°	1765.3	1763.2	1764.2	1768.4	1771.6	1780.0	1782.1	1789.5	1796.8	1805.2	1816.8
30°	1684.3	1682.2	1681.2	1688.5	1691.7	1698.0	1701.1	1713.8	1715.8	1725.3	1733.7
32.5°	1577.1	1576.0	1578.1	1584.4	1587.6	1596.0	1600.2	1607.6	1612.8	1618.1	1626.5
35°	1457.2	1455.1	1457.2	1463.5	1463.5	1470.9	1474.1	1477.2	1476.1	1477.2	1475.1
37.5°	1345.8	1344.7	1345.8	1348.9	1345.8	1348.9	1345.8	1339.5	1327.9	1315.3	1302.6
40°	1251.1	1252.2	1245.9	1250.1	1238.5	1236.4	1224.9	1209.1	1186.0	1160.7	1125.0
42.5°	1150.2	1147.1	1142.9	1145.0	1135.5	1128.1	1109.2	1089.3	1059.8	1017.8	974.6
45°	1026.2	1025.1	1023.0	1022.0	1015.6	1008.3	992.5	969.4	936.8	893.7	842.1
47.5°	905.2	902.1	902.1	903.1	895.8	894.7	882.1	862.1	833.8	791.7	738.1
50°	789.6	788.5	790.7	794.8	789.6	787.5	779.1	765.4	740.2	704.4	653.9
52.5°	685.5	684.5	686.6	691.8	689.7	691.8	683.4	672.9	656.1	621.4	577.2
55°	583.5	583.5	583.5	589.8	589.8	589.8	585.6	579.3	563.5	538.3	497.3
57.5°	477.3	478.4	484.7	485.7	484.7	486.8	485.7	479.4	468.9	451.1	419.5
60°	388.0	388.0	391.1	394.3	393.2	394.3	394.3	391.1	380.6	365.9	340.7
62.5°	307.0	310.2	308.0	310.2	314.4	310.2	308.0	306.0	298.6	289.1	268.1
65°	232.3	234.5	234.5	235.5	233.4	234.5	230.3	227.1	222.9	212.4	198.7
67.5°	176.7	176.7	176.7	176.7	175.6	174.5	173.5	170.3	163.0	158.8	144.0
70°	135.6	129.3	129.3	129.3	129.3	130.4	127.2	123.0	120.9	113.6	103.0
72.5°	90.4	92.5	90.4	90.4	88.3	89.4	85.2	83.0	81.0	76.8	70.5
75°	65.2	59.9	62.0	63.1	59.9	62.0	57.8	53.6	53.6	50.5	47.3
77.5°	42.1	41.0	42.1	43.1	42.1	41.0	38.9	36.8	36.8	35.7	32.6
80°	30.5	29.4	29.4	29.4	28.4	29.4	27.4	27.4	25.2	24.2	22.1
82.5°	20.0	20.0	18.9	20.0	18.9	20.0	16.8	16.8	16.8	15.8	13.7
85°	13.7	11.6	11.6	12.6	10.5	12.6	11.6	10.5	9.5	9.5	8.4
87.5°	6.3	7.4	6.3	7.4	6.3	6.3	7.4	6.3	6.3	4.2	4.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2
2.5°	2142.7	2143.8	2143.8	2148.0	2150.1	2151.1	2151.1	2159.6	2156.4	2158.5	2160.6
5°	2112.3	2118.5	2120.6	2120.6	2132.2	2136.4	2140.6	2150.1	2151.1	2157.4	2164.8
7.5°	2082.8	2090.1	2094.4	2103.8	2111.2	2118.5	2131.2	2137.5	2143.8	2152.2	2161.6
10°	2054.4	2062.8	2071.2	2078.6	2090.1	2099.6	2108.0	2122.7	2130.1	2141.7	2154.3
12.5°	2027.1	2038.6	2046.0	2058.6	2071.2	2079.6	2092.3	2105.9	2117.5	2129.0	2143.8
15°	2002.9	2016.6	2025.0	2038.6	2052.3	2063.9	2077.5	2094.4	2102.8	2116.5	2130.1
17.5°	1976.6	1991.3	2001.9	2014.4	2031.3	2043.9	2055.5	2072.3	2082.8	2097.5	2113.3
20°	1949.3	1964.0	1976.6	1989.2	2006.1	2018.6	2032.3	2049.2	2060.7	2075.4	2088.1
22.5°	1916.7	1930.4	1944.0	1958.7	1975.5	1986.1	2001.9	2016.6	2029.2	2042.8	2055.5
25°	1874.6	1891.5	1902.0	1915.6	1929.3	1940.8	1957.7	1972.4	1982.9	1995.5	2007.1
27.5°	1825.2	1837.8	1846.2	1857.8	1871.5	1882.0	1894.6	1909.3	1919.8	1931.4	1939.8
30°	1741.1	1752.7	1760.0	1768.4	1782.1	1791.6	1802.1	1815.7	1823.1	1831.5	1838.9
32.5°	1630.7	1640.2	1644.4	1650.7	1660.1	1669.6	1678.0	1689.6	1692.7	1698.0	1698.0
35°	1470.9	1473.0	1471.9	1474.1	1478.3	1483.5	1490.9	1498.2	1502.4	1502.4	1499.3
37.5°	1283.7	1271.1	1257.5	1247.0	1243.8	1241.7	1245.9	1249.0	1253.3	1255.3	1250.1
40°	1089.3	1060.9	1030.4	1003.0	984.1	975.7	972.5	974.6	974.6	982.0	982.0
42.5°	922.1	877.9	832.7	791.7	764.3	743.3	733.9	733.9	734.9	740.2	743.3
45°	783.3	727.6	675.0	629.8	591.9	564.6	552.0	548.8	547.8	549.9	557.2
47.5°	677.1	619.3	564.6	508.9	468.9	441.6	430.0	425.8	421.6	425.8	426.9
50°	594.0	534.1	476.3	420.6	378.5	354.3	339.6	333.3	332.2	332.2	334.3
52.5°	518.3	462.6	404.8	348.0	303.8	280.7	267.1	263.9	259.7	263.9	263.9
55°	446.8	391.1	334.3	280.7	243.9	219.8	207.1	202.9	200.8	204.0	204.0
57.5°	369.1	321.7	269.2	220.8	184.0	167.2	157.7	152.5	151.4	153.5	151.4
60°	302.8	262.9	217.6	173.5	145.1	127.2	119.9	117.8	115.6	117.8	117.8
62.5°	239.7	206.1	169.3	135.6	111.4	98.8	90.4	90.4	89.4	89.4	90.4
65°	177.7	151.4	125.1	96.7	77.8	68.3	62.0	62.0	61.0	62.0	61.0
67.5°	129.3	111.4	90.4	70.5	55.7	50.5	46.3	43.1	45.2	43.1	42.1
70°	94.6	79.9	65.2	53.6	43.1	37.9	34.7	33.6	31.5	31.5	31.5
72.5°	63.1	53.6	44.1	34.7	28.4	23.1	22.1	20.0	17.9	18.9	21.0
75°	42.1	35.7	31.5	25.2	18.9	18.9	12.6	12.6	10.5	12.6	9.5
77.5°	29.4	24.2	18.9	15.8	12.6	11.6	8.4	8.4	7.4	7.4	7.4
80°	21.0	17.9	13.7	11.6	8.4	8.4	7.4	6.3	5.2	5.2	6.3
82.5°	12.6	9.5	9.5	8.4	5.2	4.2	3.2	4.2	2.1	2.1	2.1
85°	7.4	6.3	5.2	3.2	2.1	2.1	1.0	0.0	1.0	1.0	0.0
87.5°	4.2	2.1	2.1	1.0	0.0	1.0	1.0	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°	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2
2.5°	2165.9	2164.8	2166.9	2166.9	2173.2	2172.1	2175.3	2175.3	2173.2	2174.3	2178.5
5°	2173.2	2176.4	2182.7	2187.9	2197.4	2201.6	2206.9	2212.1	2213.2	2216.3	2219.5
7.5°	2173.2	2183.7	2191.1	2200.5	2213.2	2220.5	2232.1	2241.6	2245.8	2251.0	2257.3
10°	2169.0	2179.5	2193.2	2203.7	2219.5	2231.0	2242.6	2257.3	2263.6	2272.0	2280.5
12.5°	2160.6	2172.1	2186.9	2200.5	2218.4	2228.9	2243.6	2257.3	2266.8	2278.3	2287.8
15°	2148.0	2161.6	2175.3	2189.0	2207.9	2220.5	2234.2	2250.0	2259.4	2272.0	2280.5
17.5°	2128.0	2142.7	2155.4	2167.9	2185.8	2200.5	2213.2	2227.9	2237.4	2247.9	2259.4
20°	2103.8	2117.5	2131.2	2141.7	2159.6	2172.1	2185.8	2199.5	2206.9	2209.0	2226.8
22.5°	2073.3	2082.8	2093.3	2110.1	2120.6	2132.2	2144.8	2157.4	2164.8	2176.4	2182.7
25°	2022.8	2032.3	2043.9	2051.2	2063.9	2073.3	2085.9	2099.6	2103.8	2112.3	2118.5
27.5°	1952.4	1957.7	1963.0	1969.2	1976.6	1981.9	1989.2	1995.5	1999.7	2003.9	2008.1
30°	1841.0	1841.0	1841.0	1836.8	1839.9	1843.1	1844.1	1843.1	1843.1	1842.0	1842.0
32.5°	1693.8	1685.4	1675.9	1667.5	1664.3	1660.1	1658.0	1654.9	1649.6	1646.5	1647.5
35°	1495.1	1476.1	1464.6	1454.1	1445.7	1439.4	1436.2	1433.0	1432.0	1427.8	1423.6
37.5°	1247.0	1233.3	1224.9	1218.6	1211.2	1204.9	1205.9	1207.0	1210.1	1208.0	1209.1
40°	984.1	980.9	984.1	976.7	974.6	976.7	982.0	989.4	993.6	997.8	1005.1
42.5°	748.6	753.8	761.2	761.2	764.3	768.6	774.9	786.5	792.7	800.1	808.5
45°	563.5	569.9	579.3	582.5	584.6	589.8	597.2	606.6	610.8	617.2	624.5
47.5°	434.2	438.4	443.7	448.9	454.2	456.3	463.7	463.7	468.9	473.1	475.2
50°	338.5	342.7	346.9	350.1	352.2	355.4	357.5	360.6	361.7	363.8	364.8
52.5°	264.9	270.2	270.2	272.3	275.5	278.6	277.6	278.6	279.6	279.6	282.8
55°	207.1	207.1	210.3	210.3	212.4	211.3	212.4	212.4	212.4	212.4	213.4
57.5°	154.5	155.6	158.8	156.7	155.6	157.7	155.6	157.7	156.7	158.8	155.6
60°	118.8	118.8	119.9	119.9	120.9	120.9	120.9	119.9	119.9	118.8	118.8
62.5°	89.4	90.4	91.5	90.4	90.4	90.4	89.4	89.4	88.3	87.2	87.2
65°	59.9	58.9	61.0	58.9	59.9	59.9	58.9	59.9	56.8	57.8	56.8
67.5°	43.1	42.1	41.0	42.1	41.0	39.9	39.9	41.0	42.1	38.9	38.9
70°	28.4	29.4	28.4	29.4	30.5	30.5	29.4	28.4	29.4	27.4	28.4
72.5°	17.9	17.9	17.9	17.9	17.9	18.9	18.9	18.9	16.8	16.8	15.8
75°	8.4	11.6	9.5	8.4	11.6	11.6	10.5	10.5	9.5	9.5	9.5
77.5°	8.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	5.2	6.3	5.2
80°	4.2	4.2	4.2	3.2	4.2	4.2	5.2	4.2	4.2	3.2	5.2
82.5°	2.1	2.1	2.1	0.0	1.0	2.1	2.1	1.0	2.1	2.1	1.0
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: P245866

CATALOG NUMBER: LD8B40D010 ER8B40940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2
2.5°	2177.4	2176.4	2177.4	2178.5	2177.4	2176.4	2177.4	2178.5	2174.3	2173.2	2175.3
5°	2223.7	2223.7	2225.8	2226.8	2225.8	2223.7	2223.7	2219.5	2216.3	2213.2	2212.1
7.5°	2263.6	2265.8	2267.8	2268.9	2267.8	2265.8	2263.6	2257.3	2251.0	2245.8	2241.6
10°	2287.8	2291.0	2295.2	2297.3	2295.2	2291.0	2287.8	2280.5	2272.0	2263.6	2257.3
12.5°	2298.3	2301.5	2306.7	2305.7	2306.7	2301.5	2298.3	2287.8	2278.3	2266.8	2257.3
15°	2291.0	2295.2	2300.4	2302.5	2300.4	2295.2	2291.0	2280.5	2272.0	2259.4	2250.0
17.5°	2267.8	2274.1	2277.3	2280.5	2277.3	2274.1	2267.8	2259.4	2247.9	2237.4	2227.9
20°	2236.3	2240.5	2244.7	2245.8	2244.7	2240.5	2236.3	2226.8	2209.0	2206.9	2199.5
22.5°	2191.1	2194.3	2203.7	2200.5	2203.7	2194.3	2191.1	2182.7	2176.4	2164.8	2157.4
25°	2125.9	2129.0	2130.1	2131.2	2130.1	2129.0	2125.9	2118.5	2112.3	2103.8	2099.6
27.5°	2013.4	2013.4	2015.5	2016.6	2015.5	2013.4	2013.4	2008.1	2003.9	1999.7	1995.5
30°	1843.1	1843.1	1843.1	1848.4	1843.1	1843.1	1843.1	1842.0	1842.0	1843.1	1843.1
32.5°	1646.5	1644.4	1642.3	1644.4	1642.3	1644.4	1646.5	1647.5	1646.5	1649.6	1654.9
35°	1423.6	1422.5	1425.7	1421.5	1425.7	1422.5	1423.6	1423.6	1427.8	1432.0	1433.0
37.5°	1210.1	1208.0	1212.2	1208.0	1212.2	1208.0	1210.1	1209.1	1208.0	1210.1	1207.0
40°	1007.2	1009.3	1009.3	1017.8	1009.3	1009.3	1007.2	1005.1	997.8	993.6	989.4
42.5°	812.7	819.0	816.9	823.2	816.9	819.0	812.7	808.5	800.1	792.7	786.5
45°	628.7	633.0	633.0	635.0	633.0	633.0	628.7	624.5	617.2	610.8	606.6
47.5°	482.6	482.6	482.6	483.7	482.6	482.6	482.6	475.2	473.1	468.9	463.7
50°	366.9	368.0	369.1	370.1	369.1	368.0	366.9	364.8	363.8	361.7	360.6
52.5°	281.8	282.8	280.7	282.8	280.7	282.8	281.8	282.8	279.6	279.6	278.6
55°	213.4	212.4	213.4	214.5	213.4	212.4	213.4	213.4	212.4	212.4	212.4
57.5°	156.7	154.5	154.5	154.5	154.5	154.5	156.7	155.6	158.8	156.7	157.7
60°	116.7	117.8	117.8	118.8	117.8	117.8	116.7	118.8	118.8	119.9	119.9
62.5°	86.2	89.4	87.2	89.4	87.2	89.4	86.2	87.2	87.2	88.3	89.4
65°	55.7	55.7	55.7	56.8	55.7	55.7	55.7	56.8	57.8	56.8	59.9
67.5°	37.9	38.9	41.0	39.9	41.0	38.9	37.9	38.9	38.9	42.1	41.0
70°	30.5	27.4	27.4	30.5	27.4	27.4	30.5	28.4	27.4	29.4	28.4
72.5°	17.9	15.8	17.9	17.9	17.9	15.8	17.9	15.8	16.8	16.8	18.9
75°	9.5	8.4	7.4	10.5	7.4	8.4	9.5	9.5	9.5	9.5	10.5
77.5°	6.3	5.2	7.4	7.4	7.4	5.2	6.3	5.2	6.3	5.2	6.3
80°	3.2	4.2	3.2	5.2	3.2	4.2	3.2	5.2	3.2	4.2	4.2
82.5°	1.0	2.1	2.1	2.1	2.1	2.1	1.0	1.0	2.1	2.1	1.0
85°	0.0	2.1	1.0	1.0	1.0	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	1.0	0.0	0.0	1.0	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: P245866

CATALOG NUMBER: LD8B40D010 ER8B40940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2
2.5°	2175.3	2172.1	2173.2	2166.9	2166.9	2164.8	2165.9	2160.6	2158.5	2156.4	2159.6
5°	2206.9	2201.6	2197.4	2187.9	2182.7	2176.4	2173.2	2164.8	2157.4	2151.1	2150.1
7.5°	2232.1	2220.5	2213.2	2200.5	2191.1	2183.7	2173.2	2161.6	2152.2	2143.8	2137.5
10°	2242.6	2231.0	2219.5	2203.7	2193.2	2179.5	2169.0	2154.3	2141.7	2130.1	2122.7
12.5°	2243.6	2228.9	2218.4	2200.5	2186.9	2172.1	2160.6	2143.8	2129.0	2117.5	2105.9
15°	2234.2	2220.5	2207.9	2189.0	2175.3	2161.6	2148.0	2130.1	2116.5	2102.8	2094.4
17.5°	2213.2	2200.5	2185.8	2167.9	2155.4	2142.7	2128.0	2113.3	2097.5	2082.8	2072.3
20°	2185.8	2172.1	2159.6	2141.7	2131.2	2117.5	2103.8	2088.1	2075.4	2060.7	2049.2
22.5°	2144.8	2132.2	2120.6	2110.1	2093.3	2082.8	2073.3	2055.5	2042.8	2029.2	2016.6
25°	2085.9	2073.3	2063.9	2051.2	2043.9	2032.3	2022.8	2007.1	1995.5	1982.9	1972.4
27.5°	1989.2	1981.9	1976.6	1969.2	1963.0	1957.7	1952.4	1939.8	1931.4	1919.8	1909.3
30°	1844.1	1843.1	1839.9	1836.8	1841.0	1841.0	1841.0	1838.9	1831.5	1823.1	1815.7
32.5°	1658.0	1660.1	1664.3	1667.5	1675.9	1685.4	1693.8	1698.0	1698.0	1692.7	1689.6
35°	1436.2	1439.4	1445.7	1454.1	1464.6	1476.1	1495.1	1499.3	1502.4	1502.4	1498.2
37.5°	1205.9	1204.9	1211.2	1218.6	1224.9	1233.3	1247.0	1250.1	1255.3	1253.3	1249.0
40°	982.0	976.7	974.6	976.7	984.1	980.9	984.1	982.0	982.0	974.6	974.6
42.5°	774.9	768.6	764.3	761.2	761.2	753.8	748.6	743.3	740.2	734.9	733.9
45°	597.2	589.8	584.6	582.5	579.3	569.9	563.5	557.2	549.9	547.8	548.8
47.5°	463.7	456.3	454.2	448.9	443.7	438.4	434.2	426.9	425.8	421.6	425.8
50°	357.5	355.4	352.2	350.1	346.9	342.7	338.5	334.3	332.2	332.2	333.3
52.5°	277.6	278.6	275.5	272.3	270.2	270.2	264.9	263.9	263.9	259.7	263.9
55°	212.4	211.3	212.4	210.3	210.3	207.1	207.1	204.0	204.0	200.8	202.9
57.5°	155.6	157.7	155.6	156.7	158.8	155.6	154.5	151.4	153.5	151.4	152.5
60°	120.9	120.9	120.9	119.9	119.9	118.8	118.8	117.8	117.8	115.6	117.8
62.5°	89.4	90.4	90.4	90.4	91.5	90.4	89.4	90.4	89.4	89.4	90.4
65°	58.9	59.9	59.9	58.9	61.0	58.9	59.9	61.0	62.0	61.0	62.0
67.5°	39.9	39.9	41.0	42.1	41.0	42.1	43.1	42.1	43.1	45.2	43.1
70°	29.4	30.5	30.5	29.4	28.4	29.4	28.4	31.5	31.5	31.5	33.6
72.5°	18.9	18.9	17.9	17.9	17.9	17.9	17.9	21.0	18.9	17.9	20.0
75°	10.5	11.6	11.6	8.4	9.5	11.6	8.4	9.5	12.6	10.5	12.6
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	8.4	7.4	7.4	7.4	8.4
80°	5.2	4.2	4.2	3.2	4.2	4.2	4.2	6.3	5.2	5.2	6.3
82.5°	2.1	2.1	1.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	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: P245866

CATALOG NUMBER: LD8B40D010 ER8B40940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2
2.5°	2151.1	2151.1	2150.1	2148.0	2143.8	2143.8	2142.7	2139.6	2137.5	2136.4	2136.4
5°	2140.6	2136.4	2132.2	2120.6	2120.6	2118.5	2112.3	2108.0	2105.9	2100.7	2098.6
7.5°	2131.2	2118.5	2111.2	2103.8	2094.4	2090.1	2082.8	2079.6	2072.3	2067.0	2063.9
10°	2108.0	2099.6	2090.1	2078.6	2071.2	2062.8	2054.4	2048.1	2038.6	2033.4	2029.2
12.5°	2092.3	2079.6	2071.2	2058.6	2046.0	2038.6	2027.1	2019.7	2010.3	1999.7	1993.4
15°	2077.5	2063.9	2052.3	2038.6	2025.0	2016.6	2002.9	1994.5	1980.8	1970.3	1963.0
17.5°	2055.5	2043.9	2031.3	2014.4	2001.9	1991.3	1976.6	1966.1	1953.5	1939.8	1932.4
20°	2032.3	2018.6	2006.1	1989.2	1976.6	1964.0	1949.3	1937.7	1923.0	1910.4	1902.0
22.5°	2001.9	1986.1	1975.5	1958.7	1944.0	1930.4	1916.7	1903.0	1889.3	1878.8	1869.3
25°	1957.7	1940.8	1929.3	1915.6	1902.0	1891.5	1874.6	1866.2	1852.6	1843.1	1833.6
27.5°	1894.6	1882.0	1871.5	1857.8	1846.2	1837.8	1825.2	1816.8	1805.2	1796.8	1789.5
30°	1802.1	1791.6	1782.1	1768.4	1760.0	1752.7	1741.1	1733.7	1725.3	1715.8	1713.8
32.5°	1678.0	1669.6	1660.1	1650.7	1644.4	1640.2	1630.7	1626.5	1618.1	1612.8	1607.6
35°	1490.9	1483.5	1478.3	1474.1	1471.9	1473.0	1470.9	1475.1	1477.2	1476.1	1477.2
37.5°	1245.9	1241.7	1243.8	1247.0	1257.5	1271.1	1283.7	1302.6	1315.3	1327.9	1339.5
40°	972.5	975.7	984.1	1003.0	1030.4	1060.9	1089.3	1125.0	1160.7	1186.0	1209.1
42.5°	733.9	743.3	764.3	791.7	832.7	877.9	922.1	974.6	1017.8	1059.8	1089.3
45°	552.0	564.6	591.9	629.8	675.0	727.6	783.3	842.1	893.7	936.8	969.4
47.5°	430.0	441.6	468.9	508.9	564.6	619.3	677.1	738.1	791.7	833.8	862.1
50°	339.6	354.3	378.5	420.6	476.3	534.1	594.0	653.9	704.4	740.2	765.4
52.5°	267.1	280.7	303.8	348.0	404.8	462.6	518.3	577.2	621.4	656.1	672.9
55°	207.1	219.8	243.9	280.7	334.3	391.1	446.8	497.3	538.3	563.5	579.3
57.5°	157.7	167.2	184.0	220.8	269.2	321.7	369.1	419.5	451.1	468.9	479.4
60°	119.9	127.2	145.1	173.5	217.6	262.9	302.8	340.7	365.9	380.6	391.1
62.5°	90.4	98.8	111.4	135.6	169.3	206.1	239.7	268.1	289.1	298.6	306.0
65°	62.0	68.3	77.8	96.7	125.1	151.4	177.7	198.7	212.4	222.9	227.1
67.5°	46.3	50.5	55.7	70.5	90.4	111.4	129.3	144.0	158.8	163.0	170.3
70°	34.7	37.9	43.1	53.6	65.2	79.9	94.6	103.0	113.6	120.9	123.0
72.5°	22.1	23.1	28.4	34.7	44.1	53.6	63.1	70.5	76.8	81.0	83.0
75°	12.6	18.9	18.9	25.2	31.5	35.7	42.1	47.3	50.5	53.6	53.6
77.5°	8.4	11.6	12.6	15.8	18.9	24.2	29.4	32.6	35.7	36.8	36.8
80°	7.4	8.4	8.4	11.6	13.7	17.9	21.0	22.1	24.2	25.2	27.4
82.5°	3.2	4.2	5.2	8.4	9.5	9.5	12.6	13.7	15.8	16.8	16.8
85°	1.0	2.1	2.1	3.2	5.2	6.3	7.4	8.4	9.5	9.5	10.5
87.5°	1.0	1.0	0.0	1.0	2.1	2.1	4.2	4.2	4.2	6.3	6.3
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: P245866

CATALOG NUMBER: LD8B40D010 ER8B40940 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2
2.5°	2134.3	2135.4	2131.2	2130.1	2128.0	2129.0	2131.2
5°	2095.4	2096.5	2092.3	2088.1	2088.1	2087.0	2088.1
7.5°	2058.6	2059.7	2053.4	2051.2	2047.0	2048.1	2048.1
10°	2021.8	2021.8	2012.4	2011.3	2008.1	2007.1	2007.1
12.5°	1986.1	1982.9	1975.5	1971.3	1973.5	1967.1	1967.1
15°	1954.5	1949.3	1939.8	1936.6	1931.4	1929.3	1929.3
17.5°	1921.9	1917.7	1909.3	1903.0	1896.7	1895.7	1896.7
20°	1890.4	1886.2	1875.7	1871.5	1866.2	1866.2	1864.1
22.5°	1858.8	1854.6	1845.2	1842.0	1834.7	1834.7	1835.7
25°	1826.2	1823.1	1812.6	1810.5	1809.5	1805.2	1807.3
27.5°	1782.1	1780.0	1771.6	1768.4	1764.2	1763.2	1765.3
30°	1701.1	1698.0	1691.7	1688.5	1681.2	1682.2	1684.3
32.5°	1600.2	1596.0	1587.6	1584.4	1578.1	1576.0	1577.1
35°	1474.1	1470.9	1463.5	1463.5	1457.2	1455.1	1457.2
37.5°	1345.8	1348.9	1345.8	1348.9	1345.8	1344.7	1345.8
40°	1224.9	1236.4	1238.5	1250.1	1245.9	1252.2	1251.1
42.5°	1109.2	1128.1	1135.5	1145.0	1142.9	1147.1	1150.2
45°	992.5	1008.3	1015.6	1022.0	1023.0	1025.1	1026.2
47.5°	882.1	894.7	895.8	903.1	902.1	902.1	905.2
50°	779.1	787.5	789.6	794.8	790.7	788.5	789.6
52.5°	683.4	691.8	689.7	691.8	686.6	684.5	685.5
55°	585.6	589.8	589.8	589.8	583.5	583.5	583.5
57.5°	485.7	486.8	484.7	485.7	484.7	478.4	477.3
60°	394.3	394.3	393.2	394.3	391.1	388.0	388.0
62.5°	308.0	310.2	314.4	310.2	308.0	310.2	307.0
65°	230.3	234.5	233.4	235.5	234.5	234.5	232.3
67.5°	173.5	174.5	175.6	176.7	176.7	176.7	176.7
70°	127.2	130.4	129.3	129.3	129.3	129.3	135.6
72.5°	85.2	89.4	88.3	90.4	90.4	92.5	90.4
75°	57.8	62.0	59.9	63.1	62.0	59.9	65.2
77.5°	38.9	41.0	42.1	43.1	42.1	41.0	42.1
80°	27.4	29.4	28.4	29.4	29.4	29.4	30.5
82.5°	16.8	20.0	18.9	20.0	18.9	20.0	20.0
85°	11.6	12.6	10.5	12.6	11.6	11.6	13.7
87.5°	7.4	6.3	6.3	7.4	6.3	7.4	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)