

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: P244588

Luminaire Tested: **LD8B40D010 ER8B40930 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244588
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 ER8B40930 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3634.3 lumens
Efficiency: N/A
Efficacy: 88.9 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

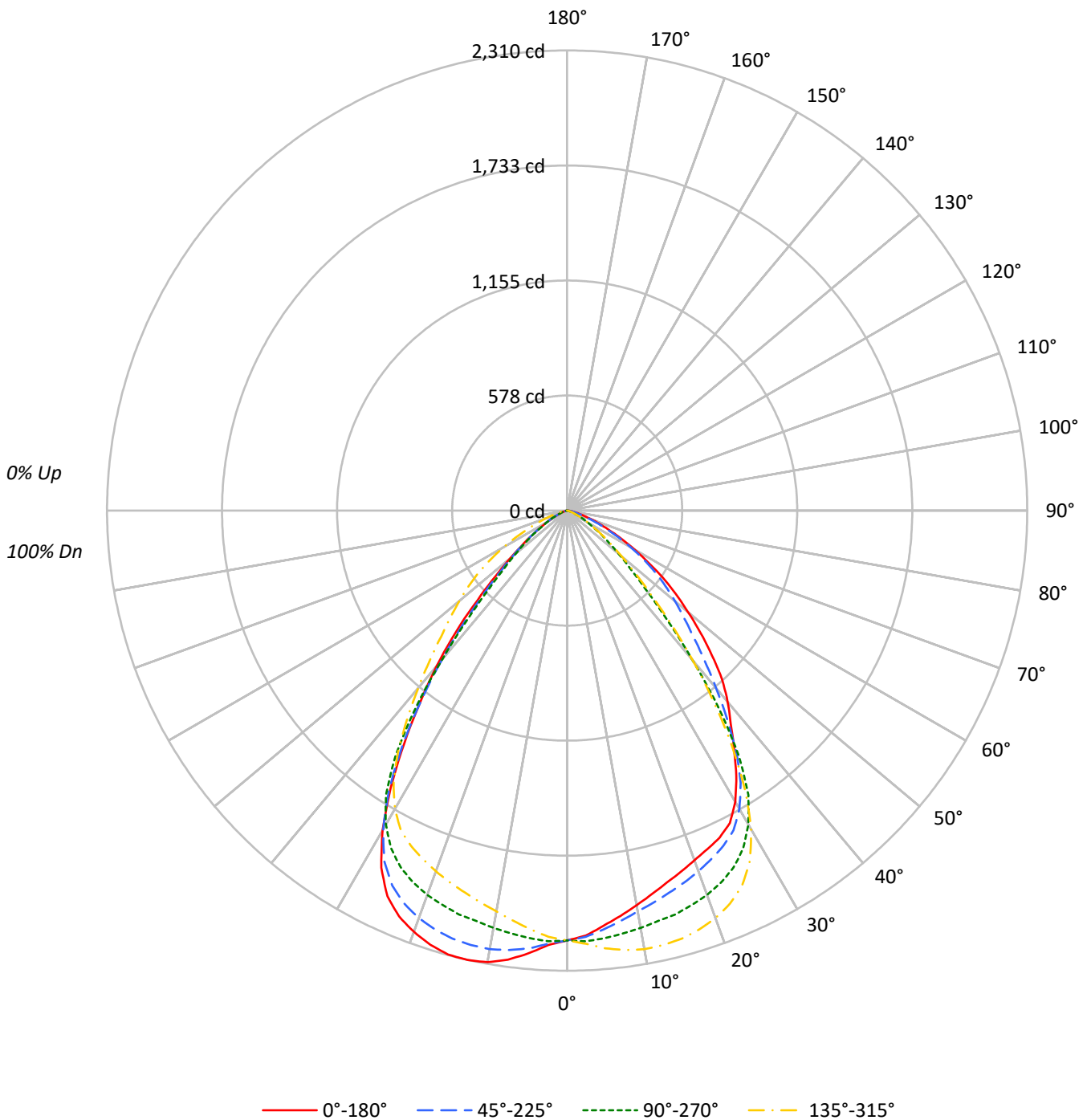
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	205.4	5.7
10°-20°	594.7	16.4
20°-30°	900.5	24.8
30°-40°	902.5	24.8
40°-50°	566.7	15.6
50°-60°	302.0	8.3
60°-70°	124.2	3.4
70°-80°	32.8	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°	1700.5	46.8
0°-40°	2603.0	71.6
0°-60°	3471.7	95.5
0°-90°	3634.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3634.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2158	2158	2158	2158	2158	
5°	2092	2154	2231	2154	2092	197
15°	1933	2099	2307	2099	1933	547
25°	1811	1976	2135	1976	1811	831
35°	1460	1501	1424	1501	1460	915
45°	1028	550	636	550	1028	791
55°	585	203	215	203	585	521
65°	233	62	57	62	233	242
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°	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6
2.5°	2135.4	2133.3	2132.3	2134.4	2135.4	2139.7	2138.6	2140.7	2140.7	2141.8	2143.8
5°	2092.2	2091.2	2092.2	2092.2	2096.5	2100.6	2099.6	2102.8	2104.9	2110.2	2112.2
7.5°	2052.2	2052.2	2051.1	2055.4	2057.5	2063.8	2062.8	2068.0	2071.2	2076.4	2083.8
10°	2011.1	2011.1	2012.2	2015.3	2016.5	2025.9	2025.9	2033.3	2037.4	2042.7	2052.2
12.5°	1971.1	1971.1	1977.4	1975.3	1979.5	1986.9	1990.0	1997.4	2003.8	2014.3	2023.7
15°	1933.2	1933.2	1935.3	1940.6	1943.7	1953.2	1958.4	1966.9	1974.3	1984.8	1998.5
17.5°	1900.5	1899.4	1900.5	1906.8	1913.2	1921.6	1925.8	1936.3	1943.7	1957.4	1970.0
20°	1867.8	1869.9	1869.9	1875.2	1879.5	1890.0	1894.2	1905.8	1914.2	1926.8	1941.6
22.5°	1839.4	1838.3	1838.3	1845.7	1848.9	1858.4	1862.5	1873.1	1882.6	1893.1	1906.8
25°	1811.0	1808.8	1813.1	1814.1	1816.2	1826.8	1829.9	1837.3	1846.7	1856.3	1869.9
27.5°	1768.8	1766.7	1767.8	1772.0	1775.1	1783.5	1785.6	1793.0	1800.4	1808.8	1820.5
30°	1687.7	1685.6	1684.5	1691.9	1695.1	1701.3	1704.6	1717.3	1719.3	1728.8	1737.2
32.5°	1580.3	1579.2	1581.3	1587.6	1590.8	1599.2	1603.5	1610.8	1616.0	1621.3	1629.7
35°	1460.1	1458.1	1460.1	1466.5	1466.5	1473.9	1477.0	1480.2	1479.2	1480.2	1478.0
37.5°	1348.5	1347.4	1348.5	1351.6	1348.5	1351.6	1348.5	1342.2	1330.6	1318.0	1305.3
40°	1253.6	1254.7	1248.5	1252.6	1240.9	1238.9	1227.4	1211.5	1188.4	1163.0	1127.3
42.5°	1152.5	1149.4	1145.2	1147.2	1137.8	1130.4	1111.5	1091.4	1061.9	1019.8	976.6
45°	1028.2	1027.2	1025.0	1024.0	1017.6	1010.4	994.4	971.3	938.7	895.5	843.9
47.5°	907.1	903.9	903.9	905.0	897.6	896.6	883.9	863.8	835.5	793.3	739.5
50°	791.2	790.1	792.2	796.5	791.2	789.1	780.7	767.0	741.7	705.9	655.2
52.5°	686.8	685.8	688.0	693.2	691.1	693.2	684.8	674.3	657.4	622.6	578.3
55°	584.7	584.7	584.7	591.0	591.0	591.0	586.7	580.5	564.6	539.4	498.3
57.5°	478.3	479.3	485.6	486.7	485.6	487.7	486.7	480.3	469.9	452.0	420.4
60°	388.8	388.8	391.9	395.0	394.0	395.0	395.0	391.9	381.4	366.7	341.3
62.5°	307.6	310.7	308.6	310.7	315.0	310.7	308.6	306.6	299.2	289.7	268.6
65°	232.8	235.0	235.0	236.0	233.8	235.0	230.7	227.6	223.4	212.9	199.1
67.5°	177.0	177.0	177.0	177.0	175.9	174.9	173.9	170.7	163.3	159.1	144.3
70°	135.9	129.6	129.6	129.6	129.6	130.6	127.5	123.3	121.2	113.8	103.2
72.5°	90.6	92.7	90.6	90.6	88.6	89.6	85.3	83.2	81.2	76.9	70.6
75°	65.4	60.1	62.1	63.2	60.1	62.1	58.0	53.7	53.7	50.6	47.4
77.5°	42.1	41.1	42.1	43.2	42.1	41.1	39.0	36.9	36.9	35.9	32.6
80°	30.6	29.5	29.5	29.5	28.5	29.5	27.4	27.4	25.3	24.2	22.1
82.5°	20.1	20.1	18.9	20.1	18.9	20.1	16.8	16.8	16.8	15.8	13.7
85°	13.7	11.5	11.5	12.7	10.5	12.7	11.5	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	4.3	4.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6
2.5°	2147.1	2148.1	2148.1	2152.3	2154.3	2155.5	2155.5	2163.9	2160.7	2162.9	2164.9
5°	2116.4	2122.7	2124.9	2124.9	2136.5	2140.7	2144.9	2154.3	2155.5	2161.7	2169.1
7.5°	2087.0	2094.4	2098.6	2108.0	2115.4	2122.7	2135.4	2141.8	2148.1	2156.5	2166.0
10°	2058.5	2067.0	2075.4	2082.7	2094.4	2103.8	2112.2	2127.0	2134.4	2145.9	2158.6
12.5°	2031.1	2042.7	2050.1	2062.8	2075.4	2083.8	2096.5	2110.2	2121.7	2133.3	2148.1
15°	2006.9	2020.6	2029.0	2042.7	2056.5	2068.0	2081.7	2098.6	2107.0	2120.7	2134.4
17.5°	1980.6	1995.4	2005.9	2018.5	2035.4	2048.0	2059.6	2076.4	2087.0	2101.8	2117.6
20°	1953.2	1967.9	1980.6	1993.3	2010.1	2022.7	2036.4	2053.2	2064.9	2079.6	2092.2
22.5°	1920.5	1934.3	1947.8	1962.6	1979.5	1990.0	2005.9	2020.6	2033.3	2046.9	2059.6
25°	1878.3	1895.3	1905.8	1919.5	1933.2	1944.7	1961.6	1976.3	1986.9	1999.5	2011.1
27.5°	1828.9	1841.6	1850.0	1861.5	1875.2	1885.7	1898.4	1913.2	1923.7	1935.3	1943.7
30°	1744.6	1756.2	1763.6	1772.0	1785.6	1795.2	1805.7	1819.4	1826.8	1835.2	1842.6
32.5°	1634.0	1643.5	1647.6	1654.0	1663.5	1673.0	1681.4	1692.9	1696.2	1701.3	1701.3
35°	1473.9	1475.9	1474.9	1477.0	1481.2	1486.4	1493.8	1501.2	1505.4	1505.4	1502.3
37.5°	1286.3	1273.7	1260.0	1249.5	1246.3	1244.2	1248.5	1251.5	1255.7	1257.9	1252.6
40°	1091.4	1063.0	1032.4	1005.0	986.0	977.6	974.5	976.6	976.6	983.9	983.9
42.5°	923.9	879.6	834.4	793.3	765.9	744.8	735.4	735.4	736.4	741.7	744.8
45°	784.8	729.0	676.3	631.0	593.1	565.7	553.1	550.0	548.8	551.0	558.4
47.5°	678.4	620.5	565.7	509.9	469.9	442.5	430.9	426.7	422.4	426.7	427.8
50°	595.3	535.2	477.2	421.4	379.2	355.0	340.2	333.9	332.9	332.9	335.1
52.5°	519.4	463.5	405.6	348.7	304.5	281.3	267.6	264.4	260.2	264.4	264.4
55°	447.7	391.9	335.1	281.3	244.4	220.2	207.5	203.3	201.2	204.4	204.4
57.5°	369.8	322.4	269.7	221.3	184.4	167.5	158.1	152.8	151.7	153.8	151.7
60°	303.5	263.4	218.0	173.9	145.4	127.5	120.1	118.0	115.9	118.0	118.0
62.5°	240.2	206.5	169.6	135.9	111.7	99.1	90.6	90.6	89.6	89.6	90.6
65°	178.0	151.7	125.3	97.0	78.0	68.5	62.1	62.1	61.1	62.1	61.1
67.5°	129.6	111.7	90.6	70.6	55.8	50.6	46.4	43.2	45.3	43.2	42.1
70°	94.8	80.0	65.4	53.7	43.2	37.9	34.8	33.7	31.6	31.6	31.6
72.5°	63.2	53.7	44.3	34.8	28.5	23.2	22.1	20.1	17.9	18.9	21.1
75°	42.1	35.9	31.6	25.3	18.9	18.9	12.7	12.7	10.5	12.7	9.5
77.5°	29.5	24.2	18.9	15.8	12.7	11.5	8.4	8.4	7.4	7.4	7.4
80°	21.1	17.9	13.7	11.5	8.4	8.4	7.4	6.3	5.3	5.3	6.3
82.5°	12.7	9.5	9.5	8.4	5.3	4.3	3.1	4.3	2.1	2.1	2.1
85°	7.4	6.3	5.3	3.1	2.1	2.1	1.0	0.0	1.0	1.0	0.0
87.5°	4.3	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°	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6
2.5°	2170.3	2169.1	2171.3	2171.3	2177.5	2176.5	2179.7	2179.7	2177.5	2178.7	2182.8
5°	2177.5	2180.8	2187.1	2192.3	2201.8	2206.0	2211.3	2216.6	2217.6	2220.8	2224.0
7.5°	2177.5	2188.1	2195.5	2205.0	2217.6	2225.0	2236.6	2246.0	2250.3	2255.6	2261.8
10°	2173.4	2183.9	2197.6	2208.1	2224.0	2235.5	2247.2	2261.8	2268.2	2276.6	2285.0
12.5°	2164.9	2176.5	2191.2	2205.0	2222.8	2233.4	2248.2	2261.8	2271.4	2282.9	2292.4
15°	2152.3	2166.0	2179.7	2193.3	2212.3	2225.0	2238.6	2254.4	2264.0	2276.6	2285.0
17.5°	2132.3	2147.1	2159.7	2172.3	2190.2	2205.0	2217.6	2232.4	2241.9	2252.4	2264.0
20°	2108.0	2121.7	2135.4	2145.9	2163.9	2176.5	2190.2	2203.9	2211.3	2213.4	2231.4
22.5°	2077.5	2087.0	2097.5	2114.3	2124.9	2136.5	2149.2	2161.7	2169.1	2180.8	2187.1
25°	2026.9	2036.4	2048.0	2055.4	2068.0	2077.5	2090.1	2103.8	2108.0	2116.4	2122.7
27.5°	1956.4	1961.6	1966.9	1973.2	1980.6	1985.9	1993.3	1999.5	2003.8	2007.9	2012.2
30°	1844.6	1844.6	1844.6	1840.5	1843.6	1846.7	1847.9	1846.7	1846.7	1845.7	1845.7
32.5°	1697.2	1688.8	1679.3	1670.9	1667.7	1663.5	1661.3	1658.2	1652.9	1649.8	1650.8
35°	1498.1	1479.2	1467.5	1457.0	1448.6	1442.3	1439.0	1435.9	1434.9	1430.6	1426.5
37.5°	1249.5	1235.8	1227.4	1221.0	1213.6	1207.3	1208.3	1209.4	1212.6	1210.5	1211.5
40°	986.0	982.9	986.0	978.7	976.6	978.7	983.9	991.4	995.6	999.8	1007.1
42.5°	750.1	755.3	762.7	762.7	765.9	770.1	776.4	788.1	794.3	801.7	810.1
45°	564.6	571.0	580.5	583.6	585.7	591.0	598.4	607.8	612.1	618.3	625.7
47.5°	435.1	439.3	444.6	449.9	455.1	457.3	464.5	464.5	469.9	474.1	476.2
50°	339.2	343.5	347.6	350.8	352.9	356.1	358.2	361.3	362.4	364.5	365.6
52.5°	265.5	270.7	270.7	272.9	276.0	279.1	278.1	279.1	280.2	280.2	283.4
55°	207.5	207.5	210.7	210.7	212.9	211.8	212.9	212.9	212.9	212.9	213.9
57.5°	154.8	155.9	159.1	156.9	155.9	158.1	155.9	158.1	156.9	159.1	155.9
60°	119.1	119.1	120.1	120.1	121.2	121.2	121.2	120.1	120.1	119.1	119.1
62.5°	89.6	90.6	91.7	90.6	90.6	90.6	89.6	89.6	88.6	87.4	87.4
65°	60.1	59.0	61.1	59.0	60.1	60.1	59.0	60.1	56.9	58.0	56.9
67.5°	43.2	42.1	41.1	42.1	41.1	40.0	40.0	41.1	42.1	39.0	39.0
70°	28.5	29.5	28.5	29.5	30.6	30.6	29.5	28.5	29.5	27.4	28.5
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	11.5	9.5	8.4	11.5	11.5	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	5.3	6.3	5.3
80°	4.3	4.3	4.3	3.1	4.3	4.3	5.3	4.3	4.3	3.1	5.3
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: P244588

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6
2.5°	2181.8	2180.8	2181.8	2182.8	2181.8	2180.8	2181.8	2182.8	2178.7	2177.5	2179.7
5°	2228.1	2228.1	2230.2	2231.4	2230.2	2228.1	2228.1	2224.0	2220.8	2217.6	2216.6
7.5°	2268.2	2270.2	2272.4	2273.4	2272.4	2270.2	2268.2	2261.8	2255.6	2250.3	2246.0
10°	2292.4	2295.6	2299.8	2301.9	2299.8	2295.6	2292.4	2285.0	2276.6	2268.2	2261.8
12.5°	2303.0	2306.1	2311.4	2310.4	2311.4	2306.1	2303.0	2292.4	2282.9	2271.4	2261.8
15°	2295.6	2299.8	2305.0	2307.1	2305.0	2299.8	2295.6	2285.0	2276.6	2264.0	2254.4
17.5°	2272.4	2278.8	2281.9	2285.0	2281.9	2278.8	2272.4	2264.0	2252.4	2241.9	2232.4
20°	2240.8	2245.0	2249.2	2250.3	2249.2	2245.0	2240.8	2231.4	2213.4	2211.3	2203.9
22.5°	2195.5	2198.6	2208.1	2205.0	2208.1	2198.6	2195.5	2187.1	2180.8	2169.1	2161.7
25°	2130.1	2133.3	2134.4	2135.4	2134.4	2133.3	2130.1	2122.7	2116.4	2108.0	2103.8
27.5°	2017.5	2017.5	2019.5	2020.6	2019.5	2017.5	2017.5	2012.2	2007.9	2003.8	1999.5
30°	1846.7	1846.7	1846.7	1852.1	1846.7	1846.7	1846.7	1845.7	1845.7	1846.7	1846.7
32.5°	1649.8	1647.6	1645.6	1647.6	1645.6	1647.6	1649.8	1650.8	1649.8	1652.9	1658.2
35°	1426.5	1425.4	1428.5	1424.3	1428.5	1425.4	1426.5	1426.5	1430.6	1434.9	1435.9
37.5°	1212.6	1210.5	1214.7	1210.5	1214.7	1210.5	1212.6	1211.5	1210.5	1212.6	1209.4
40°	1009.2	1011.4	1011.4	1019.8	1011.4	1011.4	1009.2	1007.1	999.8	995.6	991.4
42.5°	814.4	820.7	818.6	824.9	818.6	820.7	814.4	810.1	801.7	794.3	788.1
45°	630.0	634.3	634.3	636.3	634.3	634.3	630.0	625.7	618.3	612.1	607.8
47.5°	483.5	483.5	483.5	484.6	483.5	483.5	483.5	476.2	474.1	469.9	464.5
50°	367.7	368.7	369.8	370.8	369.8	368.7	367.7	365.6	364.5	362.4	361.3
52.5°	282.4	283.4	281.3	283.4	281.3	283.4	282.4	283.4	280.2	280.2	279.1
55°	213.9	212.9	213.9	214.9	213.9	212.9	213.9	213.9	212.9	212.9	212.9
57.5°	156.9	154.8	154.8	154.8	154.8	154.8	156.9	155.9	159.1	156.9	158.1
60°	116.9	118.0	118.0	119.1	118.0	118.0	116.9	119.1	119.1	120.1	120.1
62.5°	86.4	89.6	87.4	89.6	87.4	89.6	86.4	87.4	87.4	88.6	89.6
65°	55.8	55.8	55.8	56.9	55.8	55.8	55.8	56.9	58.0	56.9	60.1
67.5°	37.9	39.0	41.1	40.0	41.1	39.0	37.9	39.0	39.0	42.1	41.1
70°	30.6	27.4	27.4	30.6	27.4	27.4	30.6	28.5	27.4	29.5	28.5
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	5.3	7.4	7.4	7.4	5.3	6.3	5.3	6.3	5.3	6.3
80°	3.1	4.3	3.1	5.3	3.1	4.3	3.1	5.3	3.1	4.3	4.3
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: P244588

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6
2.5°	2179.7	2176.5	2177.5	2171.3	2171.3	2169.1	2170.3	2164.9	2162.9	2160.7	2163.9
5°	2211.3	2206.0	2201.8	2192.3	2187.1	2180.8	2177.5	2169.1	2161.7	2155.5	2154.3
7.5°	2236.6	2225.0	2217.6	2205.0	2195.5	2188.1	2177.5	2166.0	2156.5	2148.1	2141.8
10°	2247.2	2235.5	2224.0	2208.1	2197.6	2183.9	2173.4	2158.6	2145.9	2134.4	2127.0
12.5°	2248.2	2233.4	2222.8	2205.0	2191.2	2176.5	2164.9	2148.1	2133.3	2121.7	2110.2
15°	2238.6	2225.0	2212.3	2193.3	2179.7	2166.0	2152.3	2134.4	2120.7	2107.0	2098.6
17.5°	2217.6	2205.0	2190.2	2172.3	2159.7	2147.1	2132.3	2117.6	2101.8	2087.0	2076.4
20°	2190.2	2176.5	2163.9	2145.9	2135.4	2121.7	2108.0	2092.2	2079.6	2064.9	2053.2
22.5°	2149.2	2136.5	2124.9	2114.3	2097.5	2087.0	2077.5	2059.6	2046.9	2033.3	2020.6
25°	2090.1	2077.5	2068.0	2055.4	2048.0	2036.4	2026.9	2011.1	1999.5	1986.9	1976.3
27.5°	1993.3	1985.9	1980.6	1973.2	1966.9	1961.6	1956.4	1943.7	1935.3	1923.7	1913.2
30°	1847.9	1846.7	1843.6	1840.5	1844.6	1844.6	1844.6	1842.6	1835.2	1826.8	1819.4
32.5°	1661.3	1663.5	1667.7	1670.9	1679.3	1688.8	1697.2	1701.3	1701.3	1696.2	1692.9
35°	1439.0	1442.3	1448.6	1457.0	1467.5	1479.2	1498.1	1502.3	1505.4	1505.4	1501.2
37.5°	1208.3	1207.3	1213.6	1221.0	1227.4	1235.8	1249.5	1252.6	1257.9	1255.7	1251.5
40°	983.9	978.7	976.6	978.7	986.0	982.9	986.0	983.9	983.9	976.6	976.6
42.5°	776.4	770.1	765.9	762.7	762.7	755.3	750.1	744.8	741.7	736.4	735.4
45°	598.4	591.0	585.7	583.6	580.5	571.0	564.6	558.4	551.0	548.8	550.0
47.5°	464.5	457.3	455.1	449.9	444.6	439.3	435.1	427.8	426.7	422.4	426.7
50°	358.2	356.1	352.9	350.8	347.6	343.5	339.2	335.1	332.9	332.9	333.9
52.5°	278.1	279.1	276.0	272.9	270.7	270.7	265.5	264.4	264.4	260.2	264.4
55°	212.9	211.8	212.9	210.7	210.7	207.5	207.5	204.4	204.4	201.2	203.3
57.5°	155.9	158.1	155.9	156.9	159.1	155.9	154.8	151.7	153.8	151.7	152.8
60°	121.2	121.2	121.2	120.1	120.1	119.1	119.1	118.0	118.0	115.9	118.0
62.5°	89.6	90.6	90.6	90.6	91.7	90.6	89.6	90.6	89.6	89.6	90.6
65°	59.0	60.1	60.1	59.0	61.1	59.0	60.1	61.1	62.1	61.1	62.1
67.5°	40.0	40.0	41.1	42.1	41.1	42.1	43.2	42.1	43.2	45.3	43.2
70°	29.5	30.6	30.6	29.5	28.5	29.5	28.5	31.6	31.6	31.6	33.7
72.5°	18.9	18.9	17.9	17.9	17.9	17.9	17.9	21.1	18.9	17.9	20.1
75°	10.5	11.5	11.5	8.4	9.5	11.5	8.4	9.5	12.7	10.5	12.7
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°	5.3	4.3	4.3	3.1	4.3	4.3	4.3	6.3	5.3	5.3	6.3
82.5°	2.1	2.1	1.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.3
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: P244588

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6
2.5°	2155.5	2155.5	2154.3	2152.3	2148.1	2148.1	2147.1	2143.8	2141.8	2140.7	2140.7
5°	2144.9	2140.7	2136.5	2124.9	2124.9	2122.7	2116.4	2112.2	2110.2	2104.9	2102.8
7.5°	2135.4	2122.7	2115.4	2108.0	2098.6	2094.4	2087.0	2083.8	2076.4	2071.2	2068.0
10°	2112.2	2103.8	2094.4	2082.7	2075.4	2067.0	2058.5	2052.2	2042.7	2037.4	2033.3
12.5°	2096.5	2083.8	2075.4	2062.8	2050.1	2042.7	2031.1	2023.7	2014.3	2003.8	1997.4
15°	2081.7	2068.0	2056.5	2042.7	2029.0	2020.6	2006.9	1998.5	1984.8	1974.3	1966.9
17.5°	2059.6	2048.0	2035.4	2018.5	2005.9	1995.4	1980.6	1970.0	1957.4	1943.7	1936.3
20°	2036.4	2022.7	2010.1	1993.3	1980.6	1967.9	1953.2	1941.6	1926.8	1914.2	1905.8
22.5°	2005.9	1990.0	1979.5	1962.6	1947.8	1934.3	1920.5	1906.8	1893.1	1882.6	1873.1
25°	1961.6	1944.7	1933.2	1919.5	1905.8	1895.3	1878.3	1869.9	1856.3	1846.7	1837.3
27.5°	1898.4	1885.7	1875.2	1861.5	1850.0	1841.6	1828.9	1820.5	1808.8	1800.4	1793.0
30°	1805.7	1795.2	1785.6	1772.0	1763.6	1756.2	1744.6	1737.2	1728.8	1719.3	1717.3
32.5°	1681.4	1673.0	1663.5	1654.0	1647.6	1643.5	1634.0	1629.7	1621.3	1616.0	1610.8
35°	1493.8	1486.4	1481.2	1477.0	1474.9	1475.9	1473.9	1478.0	1480.2	1479.2	1480.2
37.5°	1248.5	1244.2	1246.3	1249.5	1260.0	1273.7	1286.3	1305.3	1318.0	1330.6	1342.2
40°	974.5	977.6	986.0	1005.0	1032.4	1063.0	1091.4	1127.3	1163.0	1188.4	1211.5
42.5°	735.4	744.8	765.9	793.3	834.4	879.6	923.9	976.6	1019.8	1061.9	1091.4
45°	553.1	565.7	593.1	631.0	676.3	729.0	784.8	843.9	895.5	938.7	971.3
47.5°	430.9	442.5	469.9	509.9	565.7	620.5	678.4	739.5	793.3	835.5	863.8
50°	340.2	355.0	379.2	421.4	477.2	535.2	595.3	655.2	705.9	741.7	767.0
52.5°	267.6	281.3	304.5	348.7	405.6	463.5	519.4	578.3	622.6	657.4	674.3
55°	207.5	220.2	244.4	281.3	335.1	391.9	447.7	498.3	539.4	564.6	580.5
57.5°	158.1	167.5	184.4	221.3	269.7	322.4	369.8	420.4	452.0	469.9	480.3
60°	120.1	127.5	145.4	173.9	218.0	263.4	303.5	341.3	366.7	381.4	391.9
62.5°	90.6	99.1	111.7	135.9	169.6	206.5	240.2	268.6	289.7	299.2	306.6
65°	62.1	68.5	78.0	97.0	125.3	151.7	178.0	199.1	212.9	223.4	227.6
67.5°	46.4	50.6	55.8	70.6	90.6	111.7	129.6	144.3	159.1	163.3	170.7
70°	34.8	37.9	43.2	53.7	65.4	80.0	94.8	103.2	113.8	121.2	123.3
72.5°	22.1	23.2	28.5	34.8	44.3	53.7	63.2	70.6	76.9	81.2	83.2
75°	12.7	18.9	18.9	25.3	31.6	35.9	42.1	47.4	50.6	53.7	53.7
77.5°	8.4	11.5	12.7	15.8	18.9	24.2	29.5	32.6	35.9	36.9	36.9
80°	7.4	8.4	8.4	11.5	13.7	17.9	21.1	22.1	24.2	25.3	27.4
82.5°	3.1	4.3	5.3	8.4	9.5	9.5	12.7	13.7	15.8	16.8	16.8
85°	1.0	2.1	2.1	3.1	5.3	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	4.3	4.3	4.3	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: P244588

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6	2157.6
2.5°	2138.6	2139.7	2135.4	2134.4	2132.3	2133.3	2135.4
5°	2099.6	2100.6	2096.5	2092.2	2092.2	2091.2	2092.2
7.5°	2062.8	2063.8	2057.5	2055.4	2051.1	2052.2	2052.2
10°	2025.9	2025.9	2016.5	2015.3	2012.2	2011.1	2011.1
12.5°	1990.0	1986.9	1979.5	1975.3	1977.4	1971.1	1971.1
15°	1958.4	1953.2	1943.7	1940.6	1935.3	1933.2	1933.2
17.5°	1925.8	1921.6	1913.2	1906.8	1900.5	1899.4	1900.5
20°	1894.2	1890.0	1879.5	1875.2	1869.9	1869.9	1867.8
22.5°	1862.5	1858.4	1848.9	1845.7	1838.3	1838.3	1839.4
25°	1829.9	1826.8	1816.2	1814.1	1813.1	1808.8	1811.0
27.5°	1785.6	1783.5	1775.1	1772.0	1767.8	1766.7	1768.8
30°	1704.6	1701.3	1695.1	1691.9	1684.5	1685.6	1687.7
32.5°	1603.5	1599.2	1590.8	1587.6	1581.3	1579.2	1580.3
35°	1477.0	1473.9	1466.5	1466.5	1460.1	1458.1	1460.1
37.5°	1348.5	1351.6	1348.5	1351.6	1348.5	1347.4	1348.5
40°	1227.4	1238.9	1240.9	1252.6	1248.5	1254.7	1253.6
42.5°	1111.5	1130.4	1137.8	1147.2	1145.2	1149.4	1152.5
45°	994.4	1010.4	1017.6	1024.0	1025.0	1027.2	1028.2
47.5°	883.9	896.6	897.6	905.0	903.9	903.9	907.1
50°	780.7	789.1	791.2	796.5	792.2	790.1	791.2
52.5°	684.8	693.2	691.1	693.2	688.0	685.8	686.8
55°	586.7	591.0	591.0	591.0	584.7	584.7	584.7
57.5°	486.7	487.7	485.6	486.7	485.6	479.3	478.3
60°	395.0	395.0	394.0	395.0	391.9	388.8	388.8
62.5°	308.6	310.7	315.0	310.7	308.6	310.7	307.6
65°	230.7	235.0	233.8	236.0	235.0	235.0	232.8
67.5°	173.9	174.9	175.9	177.0	177.0	177.0	177.0
70°	127.5	130.6	129.6	129.6	129.6	129.6	135.9
72.5°	85.3	89.6	88.6	90.6	90.6	92.7	90.6
75°	58.0	62.1	60.1	63.2	62.1	60.1	65.4
77.5°	39.0	41.1	42.1	43.2	42.1	41.1	42.1
80°	27.4	29.5	28.5	29.5	29.5	29.5	30.6
82.5°	16.8	20.1	18.9	20.1	18.9	20.1	20.1
85°	11.5	12.7	10.5	12.7	11.5	11.5	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)