

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: P244582

Luminaire Tested: **LD8B40D010 ER8B40927 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244582
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 ER8B40927 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3447.0 lumens
Efficiency: N/A
Efficacy: 84.3 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

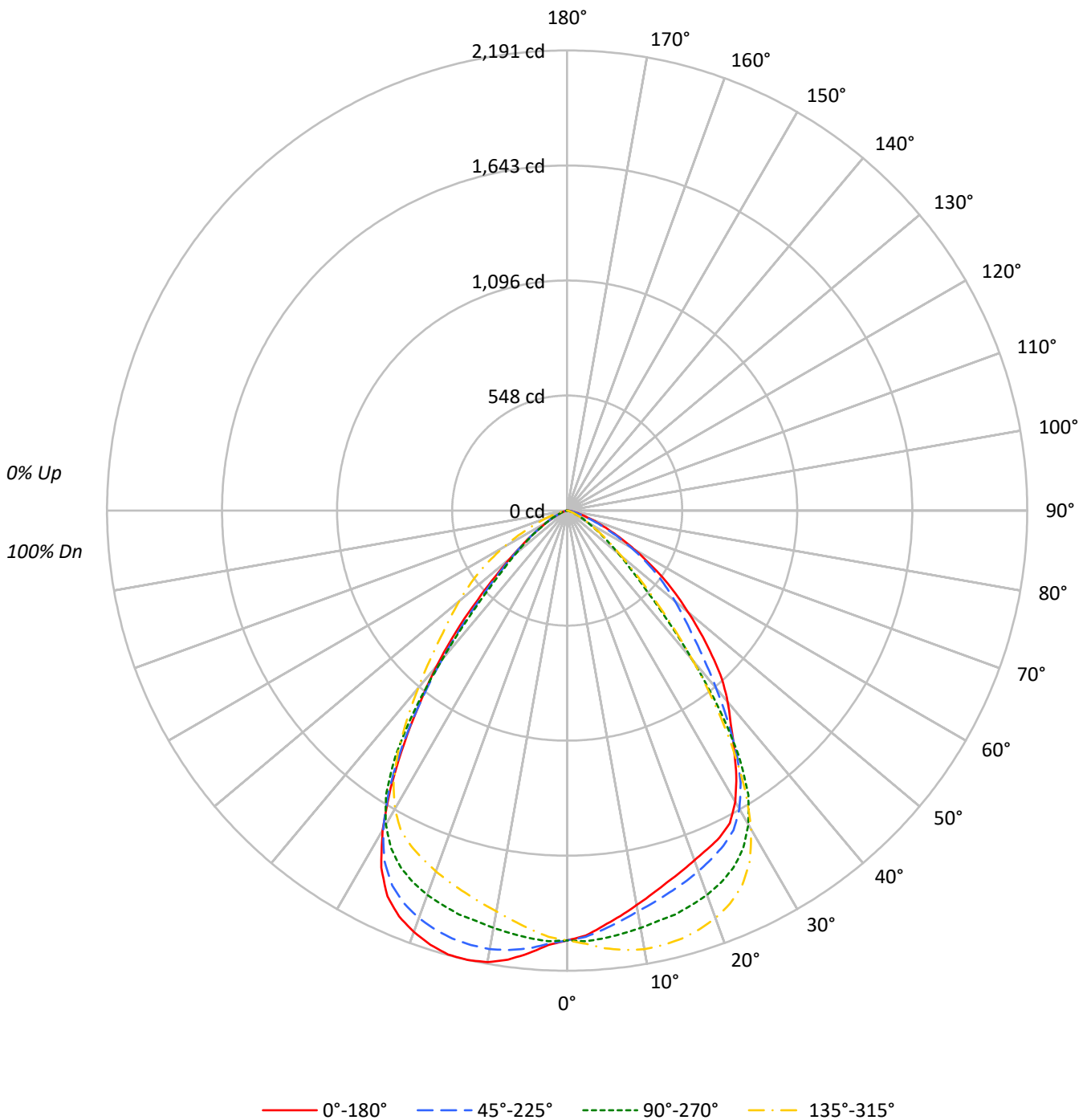
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	194.8	5.7
10°-20°	564.0	16.4
20°-30°	854.1	24.8
30°-40°	856.0	24.8
40°-50°	537.5	15.6
50°-60°	286.4	8.3
60°-70°	117.8	3.4
70°-80°	31.1	0.9
80°-90°	5.3	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°	1612.9	46.8
0°-40°	2468.9	71.6
0°-60°	3292.8	95.5
0°-90°	3447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3447.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2046	2046	2046	2046	2046	
5°	1984	2043	2116	2043	1984	187
15°	1834	1990	2188	1990	1834	519
25°	1718	1874	2025	1874	1718	788
35°	1385	1424	1351	1424	1385	868
45°	975	522	604	522	975	750
55°	555	193	204	193	555	494
65°	221	59	54	59	221	229
75°	62	12	10	12	62	70
85°	13	0	1	0	13	14
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°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2025.4	2023.4	2022.4	2024.4	2025.4	2029.4	2028.4	2030.4	2030.4	2031.4	2033.3
5°	1984.4	1983.4	1984.4	1984.4	1988.4	1992.4	1991.5	1994.4	1996.4	2001.4	2003.4
7.5°	1946.5	1946.5	1945.5	1949.4	1951.4	1957.5	1956.4	1961.4	1964.5	1969.4	1976.4
10°	1907.4	1907.4	1908.4	1911.5	1912.5	1921.5	1921.5	1928.5	1932.4	1937.5	1946.5
12.5°	1869.5	1869.5	1875.5	1873.5	1877.5	1884.5	1887.5	1894.5	1900.5	1910.5	1919.5
15°	1833.5	1833.5	1835.6	1840.5	1843.5	1852.5	1857.5	1865.6	1872.6	1882.6	1895.5
17.5°	1802.6	1801.6	1802.6	1808.6	1814.6	1822.5	1826.6	1836.6	1843.5	1856.5	1868.5
20°	1771.6	1773.6	1773.6	1778.6	1782.6	1792.6	1796.5	1807.5	1815.5	1827.6	1841.5
22.5°	1744.6	1743.6	1743.6	1750.6	1753.6	1762.5	1766.6	1776.6	1785.6	1795.6	1808.6
25°	1717.6	1715.6	1719.7	1720.7	1722.6	1732.6	1735.6	1742.6	1751.6	1760.6	1773.6
27.5°	1677.7	1675.7	1676.7	1680.6	1683.7	1691.7	1693.7	1700.7	1707.6	1715.6	1726.6
30°	1600.8	1598.7	1597.7	1604.7	1607.7	1613.7	1616.7	1628.7	1630.7	1639.7	1647.7
32.5°	1498.8	1497.8	1499.9	1505.8	1508.7	1516.8	1520.8	1527.8	1532.8	1537.8	1545.8
35°	1384.9	1382.9	1384.9	1391.0	1391.0	1397.9	1401.0	1403.9	1402.9	1403.9	1401.9
37.5°	1279.0	1278.0	1279.0	1281.9	1279.0	1281.9	1279.0	1273.0	1262.0	1250.0	1238.0
40°	1189.0	1190.0	1184.1	1188.1	1177.1	1175.1	1164.0	1149.1	1127.1	1103.2	1069.2
42.5°	1093.2	1090.1	1086.2	1088.1	1079.2	1072.1	1054.1	1035.2	1007.2	967.3	926.2
45°	975.3	974.2	972.2	971.2	965.2	958.3	943.2	921.3	890.3	849.4	800.3
47.5°	860.3	857.4	857.4	858.3	851.3	850.3	838.4	819.3	792.3	752.4	701.4
50°	750.4	749.4	751.4	755.4	750.4	748.5	740.5	727.4	703.5	669.5	621.4
52.5°	651.5	650.5	652.5	657.4	655.4	657.4	649.5	639.4	623.5	590.5	548.6
55°	554.6	554.6	554.6	560.6	560.6	560.6	556.5	550.6	535.6	511.5	472.6
57.5°	453.6	454.6	460.7	461.6	460.7	462.6	461.6	455.6	445.6	428.6	398.7
60°	368.7	368.7	371.7	374.7	373.7	374.7	374.7	371.7	361.7	347.7	323.8
62.5°	291.7	294.8	292.7	294.8	298.8	294.8	292.7	290.8	283.8	274.7	254.8
65°	220.8	222.9	222.9	223.9	221.8	222.9	218.8	215.9	211.8	201.8	188.9
67.5°	167.8	167.8	167.8	167.8	166.8	165.8	164.9	161.9	154.9	150.9	136.9
70°	128.9	122.8	122.8	122.8	122.8	124.0	120.9	116.9	114.9	107.9	97.9
72.5°	86.0	88.0	86.0	86.0	83.9	84.9	80.9	79.0	77.0	73.0	66.9
75°	62.0	56.9	59.0	60.0	56.9	59.0	54.9	51.0	51.0	47.9	45.0
77.5°	39.9	39.0	39.9	40.9	39.9	39.0	37.0	35.0	35.0	34.0	30.9
80°	29.0	28.0	28.0	28.0	27.0	28.0	26.0	26.0	24.0	23.0	20.9
82.5°	19.0	19.0	18.0	19.0	18.0	19.0	16.0	16.0	16.0	15.0	13.0
85°	13.0	11.0	11.0	12.0	10.0	12.0	11.0	10.0	9.0	9.0	8.0
87.5°	6.0	7.0	6.0	7.0	6.0	6.0	7.0	6.0	6.0	3.9	3.9
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°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2036.4	2037.4	2037.4	2041.4	2043.3	2044.4	2044.4	2052.3	2049.4	2051.4	2053.4
5°	2007.4	2013.4	2015.4	2015.4	2026.4	2030.4	2034.3	2043.3	2044.4	2050.3	2057.4
7.5°	1979.4	1986.4	1990.5	1999.5	2006.4	2013.4	2025.4	2031.4	2037.4	2045.4	2054.4
10°	1952.4	1960.4	1968.4	1975.4	1986.4	1995.4	2003.4	2017.4	2024.4	2035.4	2047.4
12.5°	1926.4	1937.5	1944.4	1956.4	1968.4	1976.4	1988.4	2001.4	2012.4	2023.4	2037.4
15°	1903.5	1916.4	1924.4	1937.5	1950.4	1961.4	1974.5	1990.5	1998.4	2011.4	2024.4
17.5°	1878.5	1892.5	1902.5	1914.5	1930.5	1942.4	1953.4	1969.4	1979.4	1993.4	2008.5
20°	1852.5	1866.5	1878.5	1890.4	1906.5	1918.5	1931.5	1947.5	1958.4	1972.5	1984.4
22.5°	1821.6	1834.5	1847.5	1861.5	1877.5	1887.5	1902.5	1916.4	1928.5	1941.4	1953.4
25°	1781.6	1797.6	1807.5	1820.6	1833.5	1844.6	1860.5	1874.5	1884.5	1896.5	1907.4
27.5°	1734.6	1746.7	1754.7	1765.6	1778.6	1788.6	1800.6	1814.6	1824.5	1835.6	1843.5
30°	1654.6	1665.7	1672.6	1680.6	1693.7	1702.7	1712.7	1725.6	1732.6	1740.6	1747.6
32.5°	1549.8	1558.8	1562.7	1568.7	1577.8	1586.7	1594.8	1605.7	1608.8	1613.7	1613.7
35°	1397.9	1399.8	1398.9	1401.0	1404.9	1409.9	1416.8	1423.9	1427.9	1427.9	1424.9
37.5°	1220.1	1208.0	1195.1	1185.1	1182.0	1180.0	1184.1	1187.0	1191.0	1193.1	1188.1
40°	1035.2	1008.2	979.2	953.2	935.2	927.2	924.3	926.2	926.2	933.2	933.2
42.5°	876.3	834.3	791.4	752.4	726.4	706.5	697.5	697.5	698.4	703.5	706.5
45°	744.4	691.4	641.5	598.5	562.5	536.5	524.6	521.6	520.6	522.6	529.5
47.5°	643.5	588.6	536.5	483.6	445.6	419.6	408.7	404.7	400.7	404.7	405.7
50°	564.5	507.6	452.7	399.7	359.7	336.7	322.8	316.7	315.8	315.8	317.8
52.5°	492.6	439.6	384.8	330.8	288.8	266.8	253.8	250.8	246.8	250.8	250.8
55°	424.7	371.7	317.8	266.8	231.8	208.8	196.9	192.8	190.8	193.8	193.8
57.5°	350.8	305.8	255.8	209.8	174.8	158.8	149.8	144.9	143.9	145.9	143.9
60°	287.8	249.9	206.9	164.9	137.9	120.9	114.0	111.9	109.9	111.9	111.9
62.5°	227.8	195.9	160.9	128.9	105.9	93.9	86.0	86.0	84.9	84.9	86.0
65°	168.9	143.9	118.9	91.9	73.9	64.9	59.0	59.0	57.9	59.0	57.9
67.5°	122.8	105.9	86.0	66.9	53.0	47.9	44.0	40.9	43.0	40.9	39.9
70°	90.0	75.9	62.0	51.0	40.9	36.0	33.0	32.0	30.0	30.0	30.0
72.5°	60.0	51.0	42.0	33.0	27.0	21.9	20.9	19.0	17.0	18.0	20.0
75°	39.9	34.0	30.0	24.0	18.0	18.0	12.0	12.0	10.0	12.0	9.0
77.5°	28.0	23.0	18.0	15.0	12.0	11.0	8.0	8.0	7.0	7.0	7.0
80°	20.0	17.0	13.0	11.0	8.0	8.0	7.0	6.0	5.0	5.0	6.0
82.5°	12.0	9.0	9.0	8.0	5.0	3.9	3.0	3.9	2.0	2.0	2.0
85°	7.0	6.0	5.0	3.0	2.0	2.0	1.0	0.0	1.0	1.0	0.0
87.5°	3.9	2.0	2.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	2.0
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°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2058.4	2057.4	2059.4	2059.4	2065.4	2064.4	2067.3	2067.3	2065.4	2066.4	2070.3
5°	2065.4	2068.4	2074.4	2079.3	2088.3	2092.4	2097.3	2102.4	2103.3	2106.3	2109.4
7.5°	2065.4	2075.4	2082.4	2091.4	2103.3	2110.3	2121.3	2130.3	2134.4	2139.3	2145.3
10°	2061.3	2071.4	2084.3	2094.3	2109.4	2120.3	2131.3	2145.3	2151.3	2159.3	2167.3
12.5°	2053.4	2064.4	2078.3	2091.4	2108.4	2118.3	2132.3	2145.3	2154.3	2165.3	2174.3
15°	2041.4	2054.4	2067.3	2080.4	2098.4	2110.3	2123.3	2138.3	2147.3	2159.3	2167.3
17.5°	2022.4	2036.4	2048.4	2060.3	2077.3	2091.4	2103.3	2117.4	2126.4	2136.4	2147.3
20°	1999.5	2012.4	2025.4	2035.4	2052.3	2064.4	2077.3	2090.4	2097.3	2099.4	2116.4
22.5°	1970.4	1979.4	1989.4	2005.4	2015.4	2026.4	2038.4	2050.3	2057.4	2068.4	2074.4
25°	1922.4	1931.5	1942.4	1949.4	1961.4	1970.4	1982.5	1995.4	1999.5	2007.4	2013.4
27.5°	1855.6	1860.5	1865.6	1871.6	1878.5	1883.5	1890.4	1896.5	1900.5	1904.5	1908.4
30°	1749.6	1749.6	1749.6	1745.6	1748.6	1751.6	1752.6	1751.6	1751.6	1750.6	1750.6
32.5°	1609.8	1601.8	1592.8	1584.8	1581.8	1577.8	1575.8	1572.8	1567.8	1564.8	1565.8
35°	1420.9	1402.9	1391.9	1382.0	1374.0	1367.9	1365.0	1361.9	1360.9	1357.0	1352.9
37.5°	1185.1	1172.0	1164.0	1158.1	1151.1	1145.1	1146.0	1147.2	1150.1	1148.1	1149.1
40°	935.2	932.3	935.2	928.2	926.2	928.2	933.2	940.3	944.2	948.3	955.2
42.5°	711.4	716.4	723.5	723.5	726.4	730.5	736.4	747.4	753.4	760.4	768.4
45°	535.6	541.6	550.6	553.5	555.5	560.6	567.6	576.6	580.5	586.6	593.6
47.5°	412.6	416.7	421.6	426.7	431.7	433.7	440.7	440.7	445.6	449.7	451.6
50°	321.8	325.7	329.7	332.8	334.7	337.7	339.8	342.7	343.7	345.7	346.7
52.5°	251.8	256.8	256.8	258.8	261.8	264.8	263.8	264.8	265.7	265.7	268.8
55°	196.9	196.9	199.8	199.8	201.8	200.8	201.8	201.8	201.8	201.8	202.8
57.5°	146.9	147.9	150.9	148.8	147.9	149.8	147.9	149.8	148.8	150.9	147.9
60°	113.0	113.0	114.0	114.0	114.9	114.9	114.9	114.0	114.0	113.0	113.0
62.5°	84.9	86.0	87.0	86.0	86.0	86.0	84.9	84.9	83.9	82.9	82.9
65°	56.9	56.0	57.9	56.0	56.9	56.9	56.0	56.9	54.0	54.9	54.0
67.5°	40.9	39.9	39.0	39.9	39.0	37.9	37.9	39.0	39.9	37.0	37.0
70°	27.0	28.0	27.0	28.0	29.0	29.0	28.0	27.0	28.0	26.0	27.0
72.5°	17.0	17.0	17.0	17.0	17.0	18.0	18.0	18.0	16.0	16.0	15.0
75°	8.0	11.0	9.0	8.0	11.0	11.0	10.0	10.0	9.0	9.0	9.0
77.5°	8.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	6.0	5.0
80°	3.9	3.9	3.9	3.0	3.9	3.9	5.0	3.9	3.9	3.0	5.0
82.5°	2.0	2.0	2.0	0.0	1.0	2.0	2.0	1.0	2.0	2.0	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: P244582

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2069.3	2068.4	2069.3	2070.3	2069.3	2068.4	2069.3	2070.3	2066.4	2065.4	2067.3
5°	2113.3	2113.3	2115.3	2116.4	2115.3	2113.3	2113.3	2109.4	2106.3	2103.3	2102.4
7.5°	2151.3	2153.4	2155.3	2156.3	2155.3	2153.4	2151.3	2145.3	2139.3	2134.4	2130.3
10°	2174.3	2177.3	2181.3	2183.3	2181.3	2177.3	2174.3	2167.3	2159.3	2151.3	2145.3
12.5°	2184.3	2187.2	2192.3	2191.3	2192.3	2187.2	2184.3	2174.3	2165.3	2154.3	2145.3
15°	2177.3	2181.3	2186.2	2188.2	2186.2	2181.3	2177.3	2167.3	2159.3	2147.3	2138.3
17.5°	2155.3	2161.2	2164.3	2167.3	2164.3	2161.2	2155.3	2147.3	2136.4	2126.4	2117.4
20°	2125.4	2129.3	2133.3	2134.4	2133.3	2129.3	2125.4	2116.4	2099.4	2097.3	2090.4
22.5°	2082.4	2085.4	2094.3	2091.4	2094.3	2085.4	2082.4	2074.4	2068.4	2057.4	2050.3
25°	2020.4	2023.4	2024.4	2025.4	2024.4	2023.4	2020.4	2013.4	2007.4	1999.5	1995.4
27.5°	1913.5	1913.5	1915.4	1916.4	1915.4	1913.5	1913.5	1908.4	1904.5	1900.5	1896.5
30°	1751.6	1751.6	1751.6	1756.6	1751.6	1751.6	1751.6	1750.6	1750.6	1751.6	1751.6
32.5°	1564.8	1562.7	1560.8	1562.7	1560.8	1562.7	1564.8	1565.8	1564.8	1567.8	1572.8
35°	1352.9	1351.9	1355.0	1350.9	1355.0	1351.9	1352.9	1352.9	1357.0	1360.9	1361.9
37.5°	1150.1	1148.1	1152.1	1148.1	1152.1	1148.1	1150.1	1149.1	1148.1	1150.1	1147.2
40°	957.3	959.3	959.3	967.3	959.3	959.3	957.3	955.2	948.3	944.2	940.3
42.5°	772.4	778.4	776.4	782.4	776.4	778.4	772.4	768.4	760.4	753.4	747.4
45°	597.5	601.5	601.5	603.6	601.5	601.5	597.5	593.6	586.6	580.5	576.6
47.5°	458.7	458.7	458.7	459.7	458.7	458.7	458.7	451.6	449.7	445.6	440.7
50°	348.8	349.8	350.8	351.7	350.8	349.8	348.8	346.7	345.7	343.7	342.7
52.5°	267.8	268.8	266.8	268.8	266.8	268.8	267.8	268.8	265.7	265.7	264.8
55°	202.8	201.8	202.8	203.8	202.8	201.8	202.8	202.8	201.8	201.8	201.8
57.5°	148.8	146.9	146.9	146.9	146.9	146.9	148.8	147.9	150.9	148.8	149.8
60°	110.9	111.9	111.9	113.0	111.9	111.9	110.9	113.0	113.0	114.0	114.0
62.5°	81.9	84.9	82.9	84.9	82.9	84.9	81.9	82.9	82.9	83.9	84.9
65°	53.0	53.0	53.0	54.0	53.0	53.0	53.0	54.0	54.9	54.0	56.9
67.5°	36.0	37.0	39.0	37.9	39.0	37.0	36.0	37.0	37.0	39.9	39.0
70°	29.0	26.0	26.0	29.0	26.0	26.0	29.0	27.0	26.0	28.0	27.0
72.5°	17.0	15.0	17.0	17.0	17.0	15.0	17.0	15.0	16.0	16.0	18.0
75°	9.0	8.0	7.0	10.0	7.0	8.0	9.0	9.0	9.0	9.0	10.0
77.5°	6.0	5.0	7.0	7.0	7.0	5.0	6.0	5.0	6.0	5.0	6.0
80°	3.0	3.9	3.0	5.0	3.0	3.9	3.0	5.0	3.0	3.9	3.9
82.5°	1.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	1.0
85°	0.0	2.0	1.0	1.0	1.0	2.0	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: P244582

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2067.3	2064.4	2065.4	2059.4	2059.4	2057.4	2058.4	2053.4	2051.4	2049.4	2052.3
5°	2097.3	2092.4	2088.3	2079.3	2074.4	2068.4	2065.4	2057.4	2050.3	2044.4	2043.3
7.5°	2121.3	2110.3	2103.3	2091.4	2082.4	2075.4	2065.4	2054.4	2045.4	2037.4	2031.4
10°	2131.3	2120.3	2109.4	2094.3	2084.3	2071.4	2061.3	2047.4	2035.4	2024.4	2017.4
12.5°	2132.3	2118.3	2108.4	2091.4	2078.3	2064.4	2053.4	2037.4	2023.4	2012.4	2001.4
15°	2123.3	2110.3	2098.4	2080.4	2067.3	2054.4	2041.4	2024.4	2011.4	1998.4	1990.5
17.5°	2103.3	2091.4	2077.3	2060.3	2048.4	2036.4	2022.4	2008.5	1993.4	1979.4	1969.4
20°	2077.3	2064.4	2052.3	2035.4	2025.4	2012.4	1999.5	1984.4	1972.5	1958.4	1947.5
22.5°	2038.4	2026.4	2015.4	2005.4	1989.4	1979.4	1970.4	1953.4	1941.4	1928.5	1916.4
25°	1982.5	1970.4	1961.4	1949.4	1942.4	1931.5	1922.4	1907.4	1896.5	1884.5	1874.5
27.5°	1890.4	1883.5	1878.5	1871.6	1865.6	1860.5	1855.6	1843.5	1835.6	1824.5	1814.6
30°	1752.6	1751.6	1748.6	1745.6	1749.6	1749.6	1749.6	1747.6	1740.6	1732.6	1725.6
32.5°	1575.8	1577.8	1581.8	1584.8	1592.8	1601.8	1609.8	1613.7	1613.7	1608.8	1605.7
35°	1365.0	1367.9	1374.0	1382.0	1391.9	1402.9	1420.9	1424.9	1427.9	1427.9	1423.9
37.5°	1146.0	1145.1	1151.1	1158.1	1164.0	1172.0	1185.1	1188.1	1193.1	1191.0	1187.0
40°	933.2	928.2	926.2	928.2	935.2	932.3	935.2	933.2	933.2	926.2	926.2
42.5°	736.4	730.5	726.4	723.5	723.5	716.4	711.4	706.5	703.5	698.4	697.5
45°	567.6	560.6	555.5	553.5	550.6	541.6	535.6	529.5	522.6	520.6	521.6
47.5°	440.7	433.7	431.7	426.7	421.6	416.7	412.6	405.7	404.7	400.7	404.7
50°	339.8	337.7	334.7	332.8	329.7	325.7	321.8	317.8	315.8	315.8	316.7
52.5°	263.8	264.8	261.8	258.8	256.8	256.8	251.8	250.8	250.8	246.8	250.8
55°	201.8	200.8	201.8	199.8	199.8	196.9	196.9	193.8	193.8	190.8	192.8
57.5°	147.9	149.8	147.9	148.8	150.9	147.9	146.9	143.9	145.9	143.9	144.9
60°	114.9	114.9	114.9	114.0	114.0	113.0	113.0	111.9	111.9	109.9	111.9
62.5°	84.9	86.0	86.0	86.0	87.0	86.0	84.9	86.0	84.9	84.9	86.0
65°	56.0	56.9	56.9	56.0	57.9	56.0	56.9	57.9	59.0	57.9	59.0
67.5°	37.9	37.9	39.0	39.9	39.0	39.9	40.9	39.9	40.9	43.0	40.9
70°	28.0	29.0	29.0	28.0	27.0	28.0	27.0	30.0	30.0	30.0	32.0
72.5°	18.0	18.0	17.0	17.0	17.0	17.0	17.0	20.0	18.0	17.0	19.0
75°	10.0	11.0	11.0	8.0	9.0	11.0	8.0	9.0	12.0	10.0	12.0
77.5°	6.0	6.0	6.0	6.0	6.0	6.0	8.0	7.0	7.0	7.0	8.0
80°	5.0	3.9	3.9	3.0	3.9	3.9	3.9	6.0	5.0	5.0	6.0
82.5°	2.0	2.0	1.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9
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	2.0	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: P244582

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2044.4	2044.4	2043.3	2041.4	2037.4	2037.4	2036.4	2033.3	2031.4	2030.4	2030.4
5°	2034.3	2030.4	2026.4	2015.4	2015.4	2013.4	2007.4	2003.4	2001.4	1996.4	1994.4
7.5°	2025.4	2013.4	2006.4	1999.5	1990.5	1986.4	1979.4	1976.4	1969.4	1964.5	1961.4
10°	2003.4	1995.4	1986.4	1975.4	1968.4	1960.4	1952.4	1946.5	1937.5	1932.4	1928.5
12.5°	1988.4	1976.4	1968.4	1956.4	1944.4	1937.5	1926.4	1919.5	1910.5	1900.5	1894.5
15°	1974.5	1961.4	1950.4	1937.5	1924.4	1916.4	1903.5	1895.5	1882.6	1872.6	1865.6
17.5°	1953.4	1942.4	1930.5	1914.5	1902.5	1892.5	1878.5	1868.5	1856.5	1843.5	1836.6
20°	1931.5	1918.5	1906.5	1890.4	1878.5	1866.5	1852.5	1841.5	1827.6	1815.5	1807.5
22.5°	1902.5	1887.5	1877.5	1861.5	1847.5	1834.5	1821.6	1808.6	1795.6	1785.6	1776.6
25°	1860.5	1844.6	1833.5	1820.6	1807.5	1797.6	1781.6	1773.6	1760.6	1751.6	1742.6
27.5°	1800.6	1788.6	1778.6	1765.6	1754.7	1746.7	1734.6	1726.6	1715.6	1707.6	1700.7
30°	1712.7	1702.7	1693.7	1680.6	1672.6	1665.7	1654.6	1647.7	1639.7	1630.7	1628.7
32.5°	1594.8	1586.7	1577.8	1568.7	1562.7	1558.8	1549.8	1545.8	1537.8	1532.8	1527.8
35°	1416.8	1409.9	1404.9	1401.0	1398.9	1399.8	1397.9	1401.9	1403.9	1402.9	1403.9
37.5°	1184.1	1180.0	1182.0	1185.1	1195.1	1208.0	1220.1	1238.0	1250.0	1262.0	1273.0
40°	924.3	927.2	935.2	953.2	979.2	1008.2	1035.2	1069.2	1103.2	1127.1	1149.1
42.5°	697.5	706.5	726.4	752.4	791.4	834.3	876.3	926.2	967.3	1007.2	1035.2
45°	524.6	536.5	562.5	598.5	641.5	691.4	744.4	800.3	849.4	890.3	921.3
47.5°	408.7	419.6	445.6	483.6	536.5	588.6	643.5	701.4	752.4	792.3	819.3
50°	322.8	336.7	359.7	399.7	452.7	507.6	564.5	621.4	669.5	703.5	727.4
52.5°	253.8	266.8	288.8	330.8	384.8	439.6	492.6	548.6	590.5	623.5	639.4
55°	196.9	208.8	231.8	266.8	317.8	371.7	424.7	472.6	511.5	535.6	550.6
57.5°	149.8	158.8	174.8	209.8	255.8	305.8	350.8	398.7	428.6	445.6	455.6
60°	114.0	120.9	137.9	164.9	206.9	249.9	287.8	323.8	347.7	361.7	371.7
62.5°	86.0	93.9	105.9	128.9	160.9	195.9	227.8	254.8	274.7	283.8	290.8
65°	59.0	64.9	73.9	91.9	118.9	143.9	168.9	188.9	201.8	211.8	215.9
67.5°	44.0	47.9	53.0	66.9	86.0	105.9	122.8	136.9	150.9	154.9	161.9
70°	33.0	36.0	40.9	51.0	62.0	75.9	90.0	97.9	107.9	114.9	116.9
72.5°	20.9	21.9	27.0	33.0	42.0	51.0	60.0	66.9	73.0	77.0	79.0
75°	12.0	18.0	18.0	24.0	30.0	34.0	39.9	45.0	47.9	51.0	51.0
77.5°	8.0	11.0	12.0	15.0	18.0	23.0	28.0	30.9	34.0	35.0	35.0
80°	7.0	8.0	8.0	11.0	13.0	17.0	20.0	20.9	23.0	24.0	26.0
82.5°	3.0	3.9	5.0	8.0	9.0	9.0	12.0	13.0	15.0	16.0	16.0
85°	1.0	2.0	2.0	3.0	5.0	6.0	7.0	8.0	9.0	9.0	10.0
87.5°	1.0	1.0	0.0	1.0	2.0	2.0	3.9	3.9	3.9	6.0	6.0
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: P244582

CATALOG NUMBER: LD8B40D010 ER8B40927 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2028.4	2029.4	2025.4	2024.4	2022.4	2023.4	2025.4
5°	1991.5	1992.4	1988.4	1984.4	1984.4	1983.4	1984.4
7.5°	1956.4	1957.5	1951.4	1949.4	1945.5	1946.5	1946.5
10°	1921.5	1921.5	1912.5	1911.5	1908.4	1907.4	1907.4
12.5°	1887.5	1884.5	1877.5	1873.5	1875.5	1869.5	1869.5
15°	1857.5	1852.5	1843.5	1840.5	1835.6	1833.5	1833.5
17.5°	1826.6	1822.5	1814.6	1808.6	1802.6	1801.6	1802.6
20°	1796.5	1792.6	1782.6	1778.6	1773.6	1773.6	1771.6
22.5°	1766.6	1762.5	1753.6	1750.6	1743.6	1743.6	1744.6
25°	1735.6	1732.6	1722.6	1720.7	1719.7	1715.6	1717.6
27.5°	1693.7	1691.7	1683.7	1680.6	1676.7	1675.7	1677.7
30°	1616.7	1613.7	1607.7	1604.7	1597.7	1598.7	1600.8
32.5°	1520.8	1516.8	1508.7	1505.8	1499.9	1497.8	1498.8
35°	1401.0	1397.9	1391.0	1391.0	1384.9	1382.9	1384.9
37.5°	1279.0	1281.9	1279.0	1281.9	1279.0	1278.0	1279.0
40°	1164.0	1175.1	1177.1	1188.1	1184.1	1190.0	1189.0
42.5°	1054.1	1072.1	1079.2	1088.1	1086.2	1090.1	1093.2
45°	943.2	958.3	965.2	971.2	972.2	974.2	975.3
47.5°	838.4	850.3	851.3	858.3	857.4	857.4	860.3
50°	740.5	748.5	750.4	755.4	751.4	749.4	750.4
52.5°	649.5	657.4	655.4	657.4	652.5	650.5	651.5
55°	556.5	560.6	560.6	560.6	554.6	554.6	554.6
57.5°	461.6	462.6	460.7	461.6	460.7	454.6	453.6
60°	374.7	374.7	373.7	374.7	371.7	368.7	368.7
62.5°	292.7	294.8	298.8	294.8	292.7	294.8	291.7
65°	218.8	222.9	221.8	223.9	222.9	222.9	220.8
67.5°	164.9	165.8	166.8	167.8	167.8	167.8	167.8
70°	120.9	124.0	122.8	122.8	122.8	122.8	128.9
72.5°	80.9	84.9	83.9	86.0	86.0	88.0	86.0
75°	54.9	59.0	56.9	60.0	59.0	56.9	62.0
77.5°	37.0	39.0	39.9	40.9	39.9	39.0	39.9
80°	26.0	28.0	27.0	28.0	28.0	28.0	29.0
82.5°	16.0	19.0	18.0	19.0	18.0	19.0	19.0
85°	11.0	12.0	10.0	12.0	11.0	11.0	13.0
87.5°	7.0	6.0	6.0	7.0	6.0	7.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)