

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: P246028

Luminaire Tested: **LD8B40D010 ER8B40930 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246028
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3596.1 lumens
Efficiency: N/A
Efficacy: 87.9 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

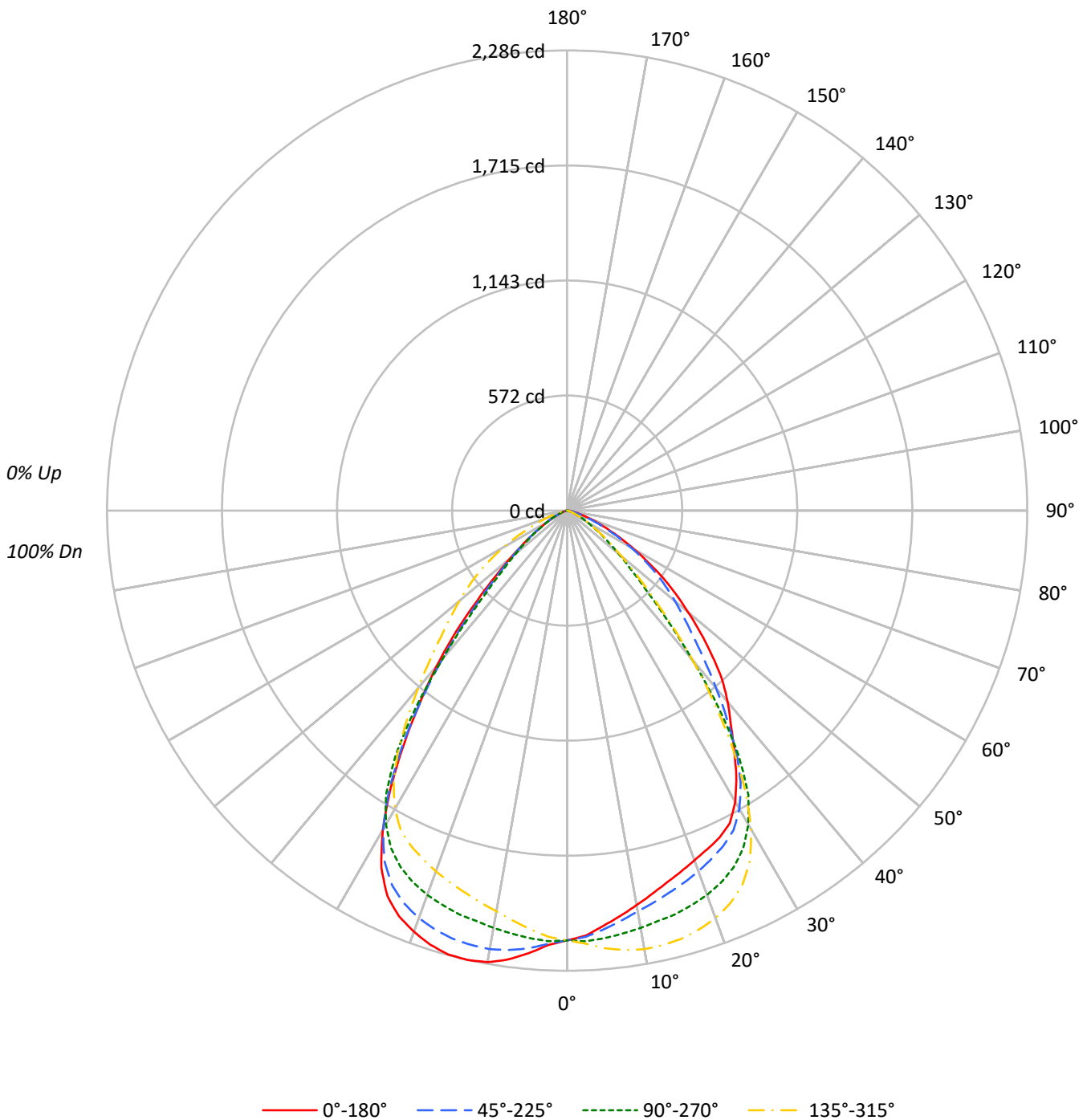
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	203.2	5.7
10°-20°	588.4	16.4
20°-30°	891.0	24.8
30°-40°	893.0	24.8
40°-50°	560.8	15.6
50°-60°	298.8	8.3
60°-70°	122.9	3.4
70°-80°	32.5	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°	1682.7	46.8
0°-40°	2575.7	71.6
0°-60°	3435.3	95.5
0°-90°	3596.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3596.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2135	2135	2135	2135	2135	
5°	2070	2132	2208	2132	2070	195
15°	1913	2076	2283	2076	1913	541
25°	1792	1956	2113	1956	1792	822
35°	1445	1485	1409	1485	1445	905
45°	1017	544	630	544	1017	783
55°	578	201	213	201	578	516
65°	230	62	56	62	230	239
75°	65	13	10	13	65	73
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°	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9
2.5°	2113.1	2111.0	2109.9	2112.0	2113.1	2117.2	2116.2	2118.2	2118.2	2119.4	2121.4
5°	2070.3	2069.3	2070.3	2070.3	2074.5	2078.7	2077.7	2080.7	2082.8	2088.1	2090.1
7.5°	2030.7	2030.7	2029.7	2033.8	2035.8	2042.1	2041.1	2046.3	2049.4	2054.7	2062.0
10°	1990.0	1990.0	1991.0	1994.1	1995.3	2004.6	2004.6	2011.9	2016.1	2021.3	2030.7
12.5°	1950.4	1950.4	1956.7	1954.6	1958.7	1966.0	1969.1	1976.4	1982.7	1993.1	2002.6
15°	1912.9	1912.9	1915.0	1920.2	1923.3	1932.7	1937.9	1946.3	1953.6	1964.0	1977.6
17.5°	1880.6	1879.6	1880.6	1886.9	1893.1	1901.4	1905.6	1916.0	1923.3	1936.9	1949.4
20°	1848.3	1850.3	1850.3	1855.6	1859.7	1870.2	1874.3	1885.9	1894.2	1906.6	1921.3
22.5°	1820.2	1819.0	1819.0	1826.3	1829.5	1838.9	1843.0	1853.5	1862.9	1873.3	1886.9
25°	1791.9	1789.9	1794.0	1795.1	1797.2	1807.6	1810.8	1818.0	1827.5	1836.8	1850.3
27.5°	1750.2	1748.2	1749.2	1753.4	1756.5	1764.9	1766.9	1774.2	1781.5	1789.9	1801.3
30°	1670.0	1667.9	1666.9	1674.2	1677.4	1683.5	1686.7	1699.2	1701.2	1710.6	1718.9
32.5°	1563.7	1562.7	1564.7	1571.0	1574.1	1582.4	1586.7	1593.9	1599.1	1604.4	1612.7
35°	1444.9	1442.7	1444.9	1451.1	1451.1	1458.4	1461.6	1464.6	1463.6	1464.6	1462.6
37.5°	1334.3	1333.3	1334.3	1337.5	1334.3	1337.5	1334.3	1328.0	1316.6	1304.1	1291.6
40°	1240.5	1241.5	1235.3	1239.5	1227.9	1225.9	1214.5	1198.8	1175.9	1150.9	1115.4
42.5°	1140.5	1137.4	1133.1	1135.2	1125.8	1118.5	1099.8	1080.0	1050.8	1009.1	966.3
45°	1017.4	1016.4	1014.3	1013.3	1007.0	999.7	984.0	961.1	928.9	886.0	835.0
47.5°	897.6	894.4	894.4	895.5	888.2	887.2	874.6	854.8	826.6	784.9	731.8
50°	782.9	781.8	783.9	788.1	782.9	780.8	772.5	758.9	733.9	698.5	648.4
52.5°	679.7	678.7	680.8	685.9	683.8	685.9	677.6	667.2	650.5	616.1	572.3
55°	578.5	578.5	578.5	584.8	584.8	584.8	580.7	574.4	558.7	533.7	493.1
57.5°	473.3	474.3	480.6	481.6	480.6	482.7	481.6	475.3	465.0	447.3	416.0
60°	384.6	384.6	387.8	390.9	389.9	390.9	390.9	387.8	377.3	362.8	337.8
62.5°	304.4	307.5	305.5	307.5	311.6	307.5	305.5	303.3	296.1	286.6	265.8
65°	230.4	232.5	232.5	233.5	231.4	232.5	228.3	225.2	221.1	210.6	197.1
67.5°	175.1	175.1	175.1	175.1	174.1	173.1	172.1	168.9	161.5	157.4	142.8
70°	134.5	128.2	128.2	128.2	128.2	129.3	126.1	122.0	119.8	112.5	102.1
72.5°	89.7	91.7	89.7	89.7	87.6	88.6	84.4	82.4	80.3	76.1	69.8
75°	64.6	59.4	61.5	62.6	59.4	61.5	57.3	53.1	53.1	50.0	46.9
77.5°	41.7	40.7	41.7	42.7	41.7	40.7	38.6	36.4	36.4	35.4	32.3
80°	30.3	29.1	29.1	29.1	28.1	29.1	27.1	27.1	25.0	24.0	21.9
82.5°	19.8	19.8	18.7	19.8	18.7	19.8	16.7	16.7	16.7	15.6	13.6
85°	13.6	11.4	11.4	12.6	10.4	12.6	11.4	10.4	9.4	9.4	8.3
87.5°	6.3	7.3	6.3	7.3	6.3	6.3	7.3	6.3	6.3	4.1	4.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9
2.5°	2124.5	2125.5	2125.5	2129.8	2131.8	2132.8	2132.8	2141.2	2138.1	2140.2	2142.2
5°	2094.3	2100.5	2102.7	2102.7	2114.1	2118.2	2122.4	2131.8	2132.8	2139.1	2146.4
7.5°	2065.1	2072.4	2076.5	2086.0	2093.2	2100.5	2113.1	2119.4	2125.5	2133.9	2143.2
10°	2037.0	2045.3	2053.7	2061.0	2072.4	2081.8	2090.1	2104.7	2112.0	2123.5	2136.0
12.5°	2009.8	2021.3	2028.6	2041.1	2053.7	2062.0	2074.5	2088.1	2099.5	2111.0	2125.5
15°	1985.9	1999.4	2007.7	2021.3	2034.8	2046.3	2059.8	2076.5	2084.9	2098.5	2112.0
17.5°	1959.7	1974.4	1984.8	1997.3	2014.0	2026.5	2038.0	2054.7	2065.1	2079.7	2095.4
20°	1932.7	1947.3	1959.7	1972.3	1989.0	2001.4	2015.0	2031.7	2043.2	2057.8	2070.3
22.5°	1900.4	1914.0	1927.4	1942.0	1958.7	1969.1	1984.8	1999.4	2011.9	2025.4	2038.0
25°	1858.7	1875.4	1885.9	1899.3	1912.9	1924.3	1941.0	1955.6	1966.0	1978.6	1990.0
27.5°	1809.7	1822.2	1830.6	1842.0	1855.6	1866.0	1878.5	1893.1	1903.6	1915.0	1923.3
30°	1726.2	1737.8	1745.1	1753.4	1766.9	1776.3	1786.8	1800.3	1807.6	1815.9	1823.2
32.5°	1616.8	1626.2	1630.4	1636.7	1646.1	1655.4	1663.8	1675.2	1678.4	1683.5	1683.5
35°	1458.4	1460.4	1459.4	1461.6	1465.7	1470.9	1478.2	1485.4	1489.6	1489.6	1486.6
37.5°	1272.8	1260.3	1246.8	1236.4	1233.2	1231.1	1235.3	1238.4	1242.6	1244.6	1239.5
40°	1080.0	1051.8	1021.6	994.4	975.7	967.4	964.3	966.3	966.3	973.6	973.6
42.5°	914.3	870.5	825.6	784.9	757.8	737.1	727.6	727.6	728.6	733.9	737.1
45°	776.6	721.4	669.2	624.4	586.8	559.8	547.3	544.1	543.1	545.1	552.4
47.5°	671.4	614.0	559.8	504.6	465.0	437.9	426.4	422.2	418.0	422.2	423.3
50°	589.0	529.6	472.3	417.0	375.3	351.3	336.7	330.5	329.3	329.3	331.5
52.5°	513.9	458.7	401.3	345.0	301.2	278.3	264.8	261.6	257.5	261.6	261.6
55°	443.0	387.8	331.5	278.3	241.8	217.9	205.4	201.2	199.1	202.2	202.2
57.5°	365.9	318.9	266.9	218.9	182.5	165.8	156.4	151.1	150.1	152.2	150.1
60°	300.2	260.6	215.8	172.1	143.8	126.1	118.8	116.8	114.7	116.8	116.8
62.5°	237.7	204.4	167.8	134.5	110.5	98.0	89.7	89.7	88.6	88.6	89.7
65°	176.2	150.1	124.1	95.8	77.1	67.7	61.5	61.5	60.4	61.5	60.4
67.5°	128.2	110.5	89.7	69.8	55.3	50.0	45.8	42.7	44.8	42.7	41.7
70°	93.8	79.3	64.6	53.1	42.7	37.6	34.4	33.3	31.3	31.3	31.3
72.5°	62.6	53.1	43.7	34.4	28.1	22.9	21.9	19.8	17.7	18.7	20.9
75°	41.7	35.4	31.3	25.0	18.7	18.7	12.6	12.6	10.4	12.6	9.4
77.5°	29.1	24.0	18.7	15.6	12.6	11.4	8.3	8.3	7.3	7.3	7.3
80°	20.9	17.7	13.6	11.4	8.3	8.3	7.3	6.3	5.2	5.2	6.3
82.5°	12.6	9.4	9.4	8.3	5.2	4.1	3.1	4.1	2.1	2.1	2.1
85°	7.3	6.3	5.2	3.1	2.1	2.1	1.0	0.0	1.0	1.0	0.0
87.5°	4.1	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°	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9
2.5°	2147.5	2146.4	2148.5	2148.5	2154.8	2153.7	2156.8	2156.8	2154.8	2155.8	2159.9
5°	2154.8	2157.9	2164.1	2169.4	2178.7	2182.9	2188.1	2193.3	2194.4	2197.5	2200.6
7.5°	2154.8	2165.2	2172.5	2181.8	2194.4	2201.6	2213.1	2222.5	2226.6	2231.9	2238.1
10°	2150.5	2161.0	2174.5	2184.9	2200.6	2212.1	2223.5	2238.1	2244.4	2252.8	2261.1
12.5°	2142.2	2153.7	2168.2	2181.8	2199.5	2209.9	2224.5	2238.1	2247.5	2258.9	2268.3
15°	2129.8	2143.2	2156.8	2170.4	2189.1	2201.6	2215.2	2230.8	2240.2	2252.8	2261.1
17.5°	2109.9	2124.5	2137.1	2149.5	2167.2	2181.8	2194.4	2208.9	2218.3	2228.8	2240.2
20°	2086.0	2099.5	2113.1	2123.5	2141.2	2153.7	2167.2	2180.8	2188.1	2190.2	2207.9
22.5°	2055.7	2065.1	2075.5	2092.2	2102.7	2114.1	2126.6	2139.1	2146.4	2157.9	2164.1
25°	2005.7	2015.0	2026.5	2033.8	2046.3	2055.7	2068.2	2081.8	2086.0	2094.3	2100.5
27.5°	1935.9	1941.0	1946.3	1952.4	1959.7	1965.0	1972.3	1978.6	1982.7	1986.9	1991.0
30°	1825.3	1825.3	1825.3	1821.2	1824.3	1827.5	1828.5	1827.5	1827.5	1826.3	1826.3
32.5°	1679.4	1671.1	1661.7	1653.4	1650.2	1646.1	1643.9	1640.8	1635.7	1632.5	1633.5
35°	1482.3	1463.6	1452.1	1441.7	1433.4	1427.1	1424.0	1420.9	1419.9	1415.7	1411.5
37.5°	1236.4	1222.8	1214.5	1208.2	1200.9	1194.6	1195.7	1196.8	1199.8	1197.8	1198.8
40°	975.7	972.6	975.7	968.4	966.3	968.4	973.6	981.0	985.1	989.3	996.6
42.5°	742.2	747.4	754.8	754.8	757.8	762.1	768.2	779.8	785.9	793.3	801.6
45°	558.7	565.0	574.4	577.5	579.6	584.8	592.1	601.5	605.7	612.0	619.2
47.5°	430.6	434.7	439.9	445.1	450.3	452.4	459.7	459.7	465.0	469.1	471.2
50°	335.6	339.9	344.0	347.2	349.2	352.3	354.5	357.6	358.6	360.7	361.7
52.5°	262.7	267.9	267.9	269.9	273.1	276.2	275.2	276.2	277.2	277.2	280.4
55°	205.4	205.4	208.5	208.5	210.6	209.5	210.6	210.6	210.6	210.6	211.6
57.5°	153.2	154.2	157.4	155.4	154.2	156.4	154.2	156.4	155.4	157.4	154.2
60°	117.8	117.8	118.8	118.8	119.8	119.8	119.8	118.8	118.8	117.8	117.8
62.5°	88.6	89.7	90.7	89.7	89.7	89.7	88.6	88.6	87.6	86.5	86.5
65°	59.4	58.4	60.4	58.4	59.4	59.4	58.4	59.4	56.3	57.3	56.3
67.5°	42.7	41.7	40.7	41.7	40.7	39.6	39.6	40.7	41.7	38.6	38.6
70°	28.1	29.1	28.1	29.1	30.3	30.3	29.1	28.1	29.1	27.1	28.1
72.5°	17.7	17.7	17.7	17.7	17.7	18.7	18.7	18.7	16.7	16.7	15.6
75°	8.3	11.4	9.4	8.3	11.4	11.4	10.4	10.4	9.4	9.4	9.4
77.5°	8.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	5.2	6.3	5.2
80°	4.1	4.1	4.1	3.1	4.1	4.1	5.2	4.1	4.1	3.1	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: P246028

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9
2.5°	2158.9	2157.9	2158.9	2159.9	2158.9	2157.9	2158.9	2159.9	2155.8	2154.8	2156.8
5°	2204.8	2204.8	2206.8	2207.9	2206.8	2204.8	2204.8	2200.6	2197.5	2194.4	2193.3
7.5°	2244.4	2246.5	2248.5	2249.6	2248.5	2246.5	2244.4	2238.1	2231.9	2226.6	2222.5
10°	2268.3	2271.5	2275.6	2277.8	2275.6	2271.5	2268.3	2261.1	2252.8	2244.4	2238.1
12.5°	2278.8	2281.9	2287.2	2286.1	2287.2	2281.9	2278.8	2268.3	2258.9	2247.5	2238.1
15°	2271.5	2275.6	2280.9	2282.9	2280.9	2275.6	2271.5	2261.1	2252.8	2240.2	2230.8
17.5°	2248.5	2254.8	2257.9	2261.1	2257.9	2254.8	2248.5	2240.2	2228.8	2218.3	2208.9
20°	2217.2	2221.5	2225.6	2226.6	2225.6	2221.5	2217.2	2207.9	2190.2	2188.1	2180.8
22.5°	2172.5	2175.6	2184.9	2181.8	2184.9	2175.6	2172.5	2164.1	2157.9	2146.4	2139.1
25°	2107.8	2111.0	2112.0	2113.1	2112.0	2111.0	2107.8	2100.5	2094.3	2086.0	2081.8
27.5°	1996.3	1996.3	1998.4	1999.4	1998.4	1996.3	1996.3	1991.0	1986.9	1982.7	1978.6
30°	1827.5	1827.5	1827.5	1832.6	1827.5	1827.5	1827.5	1826.3	1826.3	1827.5	1827.5
32.5°	1632.5	1630.4	1628.4	1630.4	1628.4	1630.4	1632.5	1633.5	1632.5	1635.7	1640.8
35°	1411.5	1410.4	1413.6	1409.4	1413.6	1410.4	1411.5	1411.5	1415.7	1419.9	1420.9
37.5°	1199.8	1197.8	1201.9	1197.8	1201.9	1197.8	1199.8	1198.8	1197.8	1199.8	1196.8
40°	998.7	1000.7	1000.7	1009.1	1000.7	1000.7	998.7	996.6	989.3	985.1	981.0
42.5°	805.8	812.1	809.9	816.2	809.9	812.1	805.8	801.6	793.3	785.9	779.8
45°	623.4	627.5	627.5	629.7	627.5	627.5	623.4	619.2	612.0	605.7	601.5
47.5°	478.4	478.4	478.4	479.6	478.4	478.4	478.4	471.2	469.1	465.0	459.7
50°	363.8	364.9	365.9	366.9	365.9	364.9	363.8	361.7	360.7	358.6	357.6
52.5°	279.4	280.4	278.3	280.4	278.3	280.4	279.4	280.4	277.2	277.2	276.2
55°	211.6	210.6	211.6	212.7	211.6	210.6	211.6	211.6	210.6	210.6	210.6
57.5°	155.4	153.2	153.2	153.2	153.2	153.2	155.4	154.2	157.4	155.4	156.4
60°	115.7	116.8	116.8	117.8	116.8	116.8	115.7	117.8	117.8	118.8	118.8
62.5°	85.4	88.6	86.5	88.6	86.5	88.6	85.4	86.5	86.5	87.6	88.6
65°	55.3	55.3	55.3	56.3	55.3	55.3	55.3	56.3	57.3	56.3	59.4
67.5°	37.6	38.6	40.7	39.6	40.7	38.6	37.6	38.6	38.6	41.7	40.7
70°	30.3	27.1	27.1	30.3	27.1	27.1	30.3	28.1	27.1	29.1	28.1
72.5°	17.7	15.6	17.7	17.7	17.7	15.6	17.7	15.6	16.7	16.7	18.7
75°	9.4	8.3	7.3	10.4	7.3	8.3	9.4	9.4	9.4	9.4	10.4
77.5°	6.3	5.2	7.3	7.3	7.3	5.2	6.3	5.2	6.3	5.2	6.3
80°	3.1	4.1	3.1	5.2	3.1	4.1	3.1	5.2	3.1	4.1	4.1
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: P246028

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9
2.5°	2156.8	2153.7	2154.8	2148.5	2148.5	2146.4	2147.5	2142.2	2140.2	2138.1	2141.2
5°	2188.1	2182.9	2178.7	2169.4	2164.1	2157.9	2154.8	2146.4	2139.1	2132.8	2131.8
7.5°	2213.1	2201.6	2194.4	2181.8	2172.5	2165.2	2154.8	2143.2	2133.9	2125.5	2119.4
10°	2223.5	2212.1	2200.6	2184.9	2174.5	2161.0	2150.5	2136.0	2123.5	2112.0	2104.7
12.5°	2224.5	2209.9	2199.5	2181.8	2168.2	2153.7	2142.2	2125.5	2111.0	2099.5	2088.1
15°	2215.2	2201.6	2189.1	2170.4	2156.8	2143.2	2129.8	2112.0	2098.5	2084.9	2076.5
17.5°	2194.4	2181.8	2167.2	2149.5	2137.1	2124.5	2109.9	2095.4	2079.7	2065.1	2054.7
20°	2167.2	2153.7	2141.2	2123.5	2113.1	2099.5	2086.0	2070.3	2057.8	2043.2	2031.7
22.5°	2126.6	2114.1	2102.7	2092.2	2075.5	2065.1	2055.7	2038.0	2025.4	2011.9	1999.4
25°	2068.2	2055.7	2046.3	2033.8	2026.5	2015.0	2005.7	1990.0	1978.6	1966.0	1955.6
27.5°	1972.3	1965.0	1959.7	1952.4	1946.3	1941.0	1935.9	1923.3	1915.0	1903.6	1893.1
30°	1828.5	1827.5	1824.3	1821.2	1825.3	1825.3	1825.3	1823.2	1815.9	1807.6	1800.3
32.5°	1643.9	1646.1	1650.2	1653.4	1661.7	1671.1	1679.4	1683.5	1683.5	1678.4	1675.2
35°	1424.0	1427.1	1433.4	1441.7	1452.1	1463.6	1482.3	1486.6	1489.6	1489.6	1485.4
37.5°	1195.7	1194.6	1200.9	1208.2	1214.5	1222.8	1236.4	1239.5	1244.6	1242.6	1238.4
40°	973.6	968.4	966.3	968.4	975.7	972.6	975.7	973.6	973.6	966.3	966.3
42.5°	768.2	762.1	757.8	754.8	754.8	747.4	742.2	737.1	733.9	728.6	727.6
45°	592.1	584.8	579.6	577.5	574.4	565.0	558.7	552.4	545.1	543.1	544.1
47.5°	459.7	452.4	450.3	445.1	439.9	434.7	430.6	423.3	422.2	418.0	422.2
50°	354.5	352.3	349.2	347.2	344.0	339.9	335.6	331.5	329.3	329.3	330.5
52.5°	275.2	276.2	273.1	269.9	267.9	267.9	262.7	261.6	261.6	257.5	261.6
55°	210.6	209.5	210.6	208.5	208.5	205.4	205.4	202.2	202.2	199.1	201.2
57.5°	154.2	156.4	154.2	155.4	157.4	154.2	153.2	150.1	152.2	150.1	151.1
60°	119.8	119.8	119.8	118.8	118.8	117.8	117.8	116.8	116.8	114.7	116.8
62.5°	88.6	89.7	89.7	89.7	90.7	89.7	88.6	89.7	88.6	88.6	89.7
65°	58.4	59.4	59.4	58.4	60.4	58.4	59.4	60.4	61.5	60.4	61.5
67.5°	39.6	39.6	40.7	41.7	40.7	41.7	42.7	41.7	42.7	44.8	42.7
70°	29.1	30.3	30.3	29.1	28.1	29.1	28.1	31.3	31.3	31.3	33.3
72.5°	18.7	18.7	17.7	17.7	17.7	17.7	17.7	20.9	18.7	17.7	19.8
75°	10.4	11.4	11.4	8.3	9.4	11.4	8.3	9.4	12.6	10.4	12.6
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	8.3	7.3	7.3	7.3	8.3
80°	5.2	4.1	4.1	3.1	4.1	4.1	4.1	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	4.1
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: P246028

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9
2.5°	2132.8	2132.8	2131.8	2129.8	2125.5	2125.5	2124.5	2121.4	2119.4	2118.2	2118.2
5°	2122.4	2118.2	2114.1	2102.7	2102.7	2100.5	2094.3	2090.1	2088.1	2082.8	2080.7
7.5°	2113.1	2100.5	2093.2	2086.0	2076.5	2072.4	2065.1	2062.0	2054.7	2049.4	2046.3
10°	2090.1	2081.8	2072.4	2061.0	2053.7	2045.3	2037.0	2030.7	2021.3	2016.1	2011.9
12.5°	2074.5	2062.0	2053.7	2041.1	2028.6	2021.3	2009.8	2002.6	1993.1	1982.7	1976.4
15°	2059.8	2046.3	2034.8	2021.3	2007.7	1999.4	1985.9	1977.6	1964.0	1953.6	1946.3
17.5°	2038.0	2026.5	2014.0	1997.3	1984.8	1974.4	1959.7	1949.4	1936.9	1923.3	1916.0
20°	2015.0	2001.4	1989.0	1972.3	1959.7	1947.3	1932.7	1921.3	1906.6	1894.2	1885.9
22.5°	1984.8	1969.1	1958.7	1942.0	1927.4	1914.0	1900.4	1886.9	1873.3	1862.9	1853.5
25°	1941.0	1924.3	1912.9	1899.3	1885.9	1875.4	1858.7	1850.3	1836.8	1827.5	1818.0
27.5°	1878.5	1866.0	1855.6	1842.0	1830.6	1822.2	1809.7	1801.3	1789.9	1781.5	1774.2
30°	1786.8	1776.3	1766.9	1753.4	1745.1	1737.8	1726.2	1718.9	1710.6	1701.2	1699.2
32.5°	1663.8	1655.4	1646.1	1636.7	1630.4	1626.2	1616.8	1612.7	1604.4	1599.1	1593.9
35°	1478.2	1470.9	1465.7	1461.6	1459.4	1460.4	1458.4	1462.6	1464.6	1463.6	1464.6
37.5°	1235.3	1231.1	1233.2	1236.4	1246.8	1260.3	1272.8	1291.6	1304.1	1316.6	1328.0
40°	964.3	967.4	975.7	994.4	1021.6	1051.8	1080.0	1115.4	1150.9	1175.9	1198.8
42.5°	727.6	737.1	757.8	784.9	825.6	870.5	914.3	966.3	1009.1	1050.8	1080.0
45°	547.3	559.8	586.8	624.4	669.2	721.4	776.6	835.0	886.0	928.9	961.1
47.5°	426.4	437.9	465.0	504.6	559.8	614.0	671.4	731.8	784.9	826.6	854.8
50°	336.7	351.3	375.3	417.0	472.3	529.6	589.0	648.4	698.5	733.9	758.9
52.5°	264.8	278.3	301.2	345.0	401.3	458.7	513.9	572.3	616.1	650.5	667.2
55°	205.4	217.9	241.8	278.3	331.5	387.8	443.0	493.1	533.7	558.7	574.4
57.5°	156.4	165.8	182.5	218.9	266.9	318.9	365.9	416.0	447.3	465.0	475.3
60°	118.8	126.1	143.8	172.1	215.8	260.6	300.2	337.8	362.8	377.3	387.8
62.5°	89.7	98.0	110.5	134.5	167.8	204.4	237.7	265.8	286.6	296.1	303.3
65°	61.5	67.7	77.1	95.8	124.1	150.1	176.2	197.1	210.6	221.1	225.2
67.5°	45.8	50.0	55.3	69.8	89.7	110.5	128.2	142.8	157.4	161.5	168.9
70°	34.4	37.6	42.7	53.1	64.6	79.3	93.8	102.1	112.5	119.8	122.0
72.5°	21.9	22.9	28.1	34.4	43.7	53.1	62.6	69.8	76.1	80.3	82.4
75°	12.6	18.7	18.7	25.0	31.3	35.4	41.7	46.9	50.0	53.1	53.1
77.5°	8.3	11.4	12.6	15.6	18.7	24.0	29.1	32.3	35.4	36.4	36.4
80°	7.3	8.3	8.3	11.4	13.6	17.7	20.9	21.9	24.0	25.0	27.1
82.5°	3.1	4.1	5.2	8.3	9.4	9.4	12.6	13.6	15.6	16.7	16.7
85°	1.0	2.1	2.1	3.1	5.2	6.3	7.3	8.3	9.4	9.4	10.4
87.5°	1.0	1.0	0.0	1.0	2.1	2.1	4.1	4.1	4.1	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: P246028

CATALOG NUMBER: LD8B40D010 ER8B40930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9	2134.9
2.5°	2116.2	2117.2	2113.1	2112.0	2109.9	2111.0	2113.1
5°	2077.7	2078.7	2074.5	2070.3	2070.3	2069.3	2070.3
7.5°	2041.1	2042.1	2035.8	2033.8	2029.7	2030.7	2030.7
10°	2004.6	2004.6	1995.3	1994.1	1991.0	1990.0	1990.0
12.5°	1969.1	1966.0	1958.7	1954.6	1956.7	1950.4	1950.4
15°	1937.9	1932.7	1923.3	1920.2	1915.0	1912.9	1912.9
17.5°	1905.6	1901.4	1893.1	1886.9	1880.6	1879.6	1880.6
20°	1874.3	1870.2	1859.7	1855.6	1850.3	1850.3	1848.3
22.5°	1843.0	1838.9	1829.5	1826.3	1819.0	1819.0	1820.2
25°	1810.8	1807.6	1797.2	1795.1	1794.0	1789.9	1791.9
27.5°	1766.9	1764.9	1756.5	1753.4	1749.2	1748.2	1750.2
30°	1686.7	1683.5	1677.4	1674.2	1666.9	1667.9	1670.0
32.5°	1586.7	1582.4	1574.1	1571.0	1564.7	1562.7	1563.7
35°	1461.6	1458.4	1451.1	1451.1	1444.9	1442.7	1444.9
37.5°	1334.3	1337.5	1334.3	1337.5	1334.3	1333.3	1334.3
40°	1214.5	1225.9	1227.9	1239.5	1235.3	1241.5	1240.5
42.5°	1099.8	1118.5	1125.8	1135.2	1133.1	1137.4	1140.5
45°	984.0	999.7	1007.0	1013.3	1014.3	1016.4	1017.4
47.5°	874.6	887.2	888.2	895.5	894.4	894.4	897.6
50°	772.5	780.8	782.9	788.1	783.9	781.8	782.9
52.5°	677.6	685.9	683.8	685.9	680.8	678.7	679.7
55°	580.7	584.8	584.8	584.8	578.5	578.5	578.5
57.5°	481.6	482.7	480.6	481.6	480.6	474.3	473.3
60°	390.9	390.9	389.9	390.9	387.8	384.6	384.6
62.5°	305.5	307.5	311.6	307.5	305.5	307.5	304.4
65°	228.3	232.5	231.4	233.5	232.5	232.5	230.4
67.5°	172.1	173.1	174.1	175.1	175.1	175.1	175.1
70°	126.1	129.3	128.2	128.2	128.2	128.2	134.5
72.5°	84.4	88.6	87.6	89.7	89.7	91.7	89.7
75°	57.3	61.5	59.4	62.6	61.5	59.4	64.6
77.5°	38.6	40.7	41.7	42.7	41.7	40.7	41.7
80°	27.1	29.1	28.1	29.1	29.1	29.1	30.3
82.5°	16.7	19.8	18.7	19.8	18.7	19.8	19.8
85°	11.4	12.6	10.4	12.6	11.4	11.4	13.6
87.5°	7.3	6.3	6.3	7.3	6.3	7.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)