

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: P248965

Luminaire Tested: **LD8B60D010 ER8B609730 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248965  
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: LD8B60D010 ER8B609730 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3511.0 lumens  
Efficiency: N/A  
Efficacy: 59.0 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

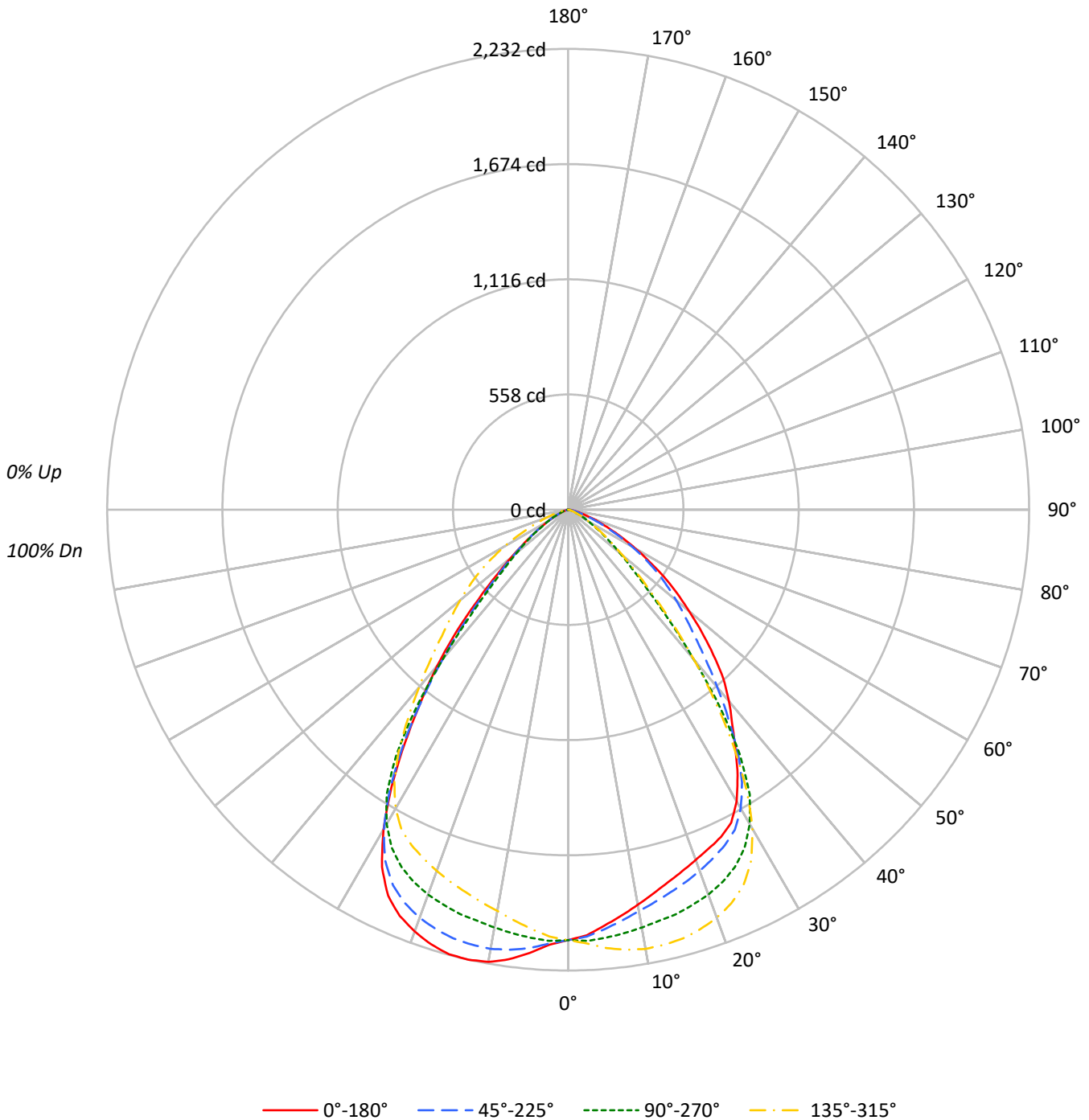
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	198.4	5.7
10°-20°	574.5	16.4
20°-30°	869.9	24.8
30°-40°	871.9	24.8
40°-50°	547.5	15.6
50°-60°	291.8	8.3
60°-70°	120.0	3.4
70°-80°	31.7	0.9
80°-90°	5.4	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°	1642.8	46.8
0°-40°	2514.7	71.6
0°-60°	3354.0	95.5
0°-90°	3511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3511.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2084	2084	2084	2084	2084	
5°	2021	2081	2156	2081	2021	191
15°	1868	2027	2229	2027	1868	528
25°	1750	1909	2063	1909	1750	802
35°	1411	1450	1376	1450	1411	884
45°	993	531	615	531	993	764
55°	565	196	208	196	565	504
65°	225	60	55	60	225	233
75°	63	12	10	12	63	71
85°	13	0	1	0	13	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°	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2063.0	2061.0	2059.9	2062.0	2063.0	2067.1	2066.1	2068.1	2068.1	2069.1	2071.1
5°	2021.3	2020.2	2021.3	2021.3	2025.3	2029.4	2028.4	2031.5	2033.5	2038.6	2040.6
7.5°	1982.6	1982.6	1981.6	1985.6	1987.7	1993.8	1992.8	1997.9	2000.9	2006.0	2013.1
10°	1942.9	1942.9	1943.9	1947.0	1948.0	1957.1	1957.1	1964.3	1968.3	1973.4	1982.6
12.5°	1904.2	1904.2	1910.4	1908.3	1912.4	1919.5	1922.5	1929.7	1935.8	1946.0	1955.1
15°	1867.6	1867.6	1869.6	1874.7	1877.8	1886.9	1892.0	1900.2	1907.3	1917.5	1930.7
17.5°	1836.0	1835.0	1836.0	1842.2	1848.3	1856.4	1860.5	1870.6	1877.8	1891.0	1903.2
20°	1804.5	1806.5	1806.5	1811.6	1815.7	1825.9	1829.9	1841.1	1849.3	1861.5	1875.7
22.5°	1777.0	1776.0	1776.0	1783.1	1786.2	1795.3	1799.4	1809.6	1818.7	1828.9	1842.2
25°	1749.5	1747.5	1751.6	1752.6	1754.6	1764.8	1767.8	1775.0	1784.1	1793.3	1806.5
27.5°	1708.8	1706.8	1707.8	1711.9	1714.9	1723.1	1725.1	1732.2	1739.3	1747.5	1758.7
30°	1630.4	1628.4	1627.4	1634.5	1637.6	1643.7	1646.7	1659.0	1661.0	1670.1	1678.3
32.5°	1526.6	1525.6	1527.7	1533.7	1536.8	1545.0	1549.0	1556.2	1561.2	1566.3	1574.5
35°	1410.6	1408.6	1410.6	1416.7	1416.7	1423.9	1426.9	1429.9	1428.9	1429.9	1427.9
37.5°	1302.8	1301.7	1302.8	1305.8	1302.8	1305.8	1302.8	1296.6	1285.5	1273.2	1261.0
40°	1211.1	1212.1	1206.1	1210.1	1198.9	1196.9	1185.7	1170.4	1148.0	1123.6	1089.0
42.5°	1113.4	1110.4	1106.3	1108.3	1099.2	1092.0	1073.7	1054.4	1025.9	985.2	943.4
45°	993.3	992.3	990.3	989.3	983.2	976.0	960.7	938.4	906.8	865.1	815.2
47.5°	876.3	873.2	873.2	874.2	867.1	866.1	853.9	834.6	807.1	766.4	714.5
50°	764.3	763.3	765.4	769.4	764.3	762.3	754.2	740.9	716.5	681.9	633.0
52.5°	663.6	662.6	664.6	669.7	667.6	669.7	661.6	651.4	635.1	601.5	558.8
55°	564.9	564.9	564.9	570.9	570.9	570.9	566.9	560.8	545.5	521.1	481.4
57.5°	462.1	463.1	469.2	470.2	469.2	471.2	470.2	464.1	453.9	436.6	406.1
60°	375.6	375.6	378.6	381.7	380.6	381.7	381.7	378.6	368.4	354.2	329.8
62.5°	297.2	300.2	298.2	300.2	304.3	300.2	298.2	296.2	289.1	279.9	259.5
65°	224.9	227.0	227.0	228.0	225.9	227.0	222.9	219.8	215.8	205.6	192.4
67.5°	171.0	171.0	171.0	171.0	170.0	168.9	167.9	164.9	157.8	153.7	139.4
70°	131.3	125.2	125.2	125.2	125.2	126.2	123.2	119.1	117.0	109.9	99.7
72.5°	87.5	89.6	87.5	87.5	85.5	86.5	82.4	80.4	78.4	74.3	68.2
75°	63.1	58.0	60.0	61.1	58.0	60.0	56.0	51.9	51.9	48.8	45.8
77.5°	40.7	39.7	40.7	41.7	40.7	39.7	37.7	35.6	35.6	34.6	31.5
80°	29.5	28.5	28.5	28.5	27.5	28.5	26.5	26.5	24.4	23.4	21.4
82.5°	19.4	19.4	18.3	19.4	18.3	19.4	16.3	16.3	16.3	15.2	13.2
85°	13.2	11.2	11.2	12.2	10.2	12.2	11.2	10.2	9.2	9.2	8.1
87.5°	6.1	7.1	6.1	7.1	6.1	6.1	7.1	6.1	6.1	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°	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2074.2	2075.2	2075.2	2079.3	2081.3	2082.3	2082.3	2090.5	2087.4	2089.5	2091.5
5°	2044.7	2050.8	2052.8	2052.8	2064.0	2068.1	2072.1	2081.3	2082.3	2088.4	2095.6
7.5°	2016.2	2023.3	2027.4	2036.5	2043.7	2050.8	2063.0	2069.1	2075.2	2083.4	2092.5
10°	1988.7	1996.9	2005.0	2012.1	2023.3	2032.5	2040.6	2054.8	2062.0	2073.2	2085.4
12.5°	1962.3	1973.4	1980.6	1992.8	2005.0	2013.1	2025.3	2038.6	2049.8	2061.0	2075.2
15°	1938.8	1952.1	1960.2	1973.4	1986.7	1997.9	2011.1	2027.4	2035.5	2048.8	2062.0
17.5°	1913.4	1927.7	1937.8	1950.0	1966.3	1978.5	1989.7	2006.0	2016.2	2030.4	2045.7
20°	1886.9	1901.2	1913.4	1925.6	1941.9	1954.1	1967.3	1983.6	1994.8	2009.0	2021.3
22.5°	1855.4	1868.6	1881.8	1896.1	1912.4	1922.5	1937.8	1952.1	1964.3	1977.5	1989.7
25°	1814.7	1831.0	1841.1	1854.3	1867.6	1878.8	1895.1	1909.3	1919.5	1931.7	1942.9
27.5°	1766.8	1779.1	1787.2	1798.4	1811.6	1821.8	1834.0	1848.3	1858.4	1869.6	1877.8
30°	1685.4	1696.6	1703.7	1711.9	1725.1	1734.3	1744.5	1757.7	1764.8	1772.9	1780.1
32.5°	1578.5	1587.7	1591.8	1597.9	1607.1	1616.2	1624.4	1635.5	1638.6	1643.7	1643.7
35°	1423.9	1425.9	1424.9	1426.9	1431.0	1436.1	1443.2	1450.3	1454.4	1454.4	1451.3
37.5°	1242.7	1230.5	1217.3	1207.1	1204.0	1202.0	1206.1	1209.1	1213.2	1215.2	1210.1
40°	1054.4	1026.9	997.4	970.9	952.6	944.5	941.4	943.4	943.4	950.6	950.6
42.5°	892.6	849.8	806.1	766.4	739.9	719.6	710.4	710.4	711.4	716.5	719.6
45°	758.2	704.3	653.4	609.7	573.0	546.5	534.3	531.3	530.3	532.3	539.4
47.5°	655.4	599.5	546.5	492.6	453.9	427.5	416.3	412.2	408.1	412.2	413.2
50°	575.0	517.0	461.1	407.1	366.4	343.0	328.7	322.6	321.6	321.6	323.7
52.5°	501.7	447.8	391.9	336.9	294.1	271.8	258.5	255.5	251.4	255.5	255.5
55°	432.5	378.6	323.7	271.8	236.1	212.7	200.5	196.4	194.4	197.4	197.4
57.5°	357.3	311.4	260.6	213.7	178.1	161.8	152.7	147.6	146.5	148.6	146.5
60°	293.1	254.5	210.7	167.9	140.5	123.2	116.0	114.0	111.9	114.0	114.0
62.5°	232.0	199.5	163.8	131.3	107.9	95.7	87.5	87.5	86.5	86.5	87.5
65°	172.0	146.5	121.1	93.6	75.3	66.1	60.0	60.0	59.0	60.0	59.0
67.5°	125.2	107.9	87.5	68.2	54.0	48.8	44.8	41.7	43.8	41.7	40.7
70°	91.6	77.3	63.1	51.9	41.7	36.7	33.6	32.5	30.5	30.5	30.5
72.5°	61.1	51.9	42.7	33.6	27.5	22.4	21.4	19.4	17.3	18.3	20.4
75°	40.7	34.6	30.5	24.4	18.3	18.3	12.2	12.2	10.2	12.2	9.2
77.5°	28.5	23.4	18.3	15.2	12.2	11.2	8.1	8.1	7.1	7.1	7.1
80°	20.4	17.3	13.2	11.2	8.1	8.1	7.1	6.1	5.1	5.1	6.1
82.5°	12.2	9.2	9.2	8.1	5.1	4.1	3.1	4.1	2.1	2.1	2.1
85°	7.1	6.1	5.1	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°	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2096.6	2095.6	2097.6	2097.6	2103.7	2102.7	2105.7	2105.7	2103.7	2104.7	2108.8
5°	2103.7	2106.8	2112.9	2118.0	2127.1	2131.2	2136.3	2141.4	2142.4	2145.4	2148.5
7.5°	2103.7	2113.9	2121.0	2130.2	2142.4	2149.5	2160.7	2169.9	2173.9	2179.0	2185.1
10°	2099.6	2109.8	2123.0	2133.2	2148.5	2159.7	2170.9	2185.1	2191.2	2199.4	2207.5
12.5°	2091.5	2102.7	2116.9	2130.2	2147.5	2157.6	2171.9	2185.1	2194.3	2205.5	2214.7
15°	2079.3	2092.5	2105.7	2119.0	2137.3	2149.5	2162.7	2178.0	2187.2	2199.4	2207.5
17.5°	2059.9	2074.2	2086.4	2098.6	2115.9	2130.2	2142.4	2156.6	2165.8	2176.0	2187.2
20°	2036.5	2049.8	2063.0	2073.2	2090.5	2102.7	2115.9	2129.2	2136.3	2138.3	2155.6
22.5°	2007.0	2016.2	2026.3	2042.6	2052.8	2064.0	2076.2	2088.4	2095.6	2106.8	2112.9
25°	1958.1	1967.3	1978.5	1985.6	1997.9	2007.0	2019.2	2032.5	2036.5	2044.7	2050.8
27.5°	1890.0	1895.1	1900.2	1906.2	1913.4	1918.5	1925.6	1931.7	1935.8	1939.8	1943.9
30°	1782.1	1782.1	1782.1	1778.0	1781.1	1784.1	1785.1	1784.1	1784.1	1783.1	1783.1
32.5°	1639.6	1631.5	1622.3	1614.2	1611.1	1607.1	1605.0	1601.9	1596.9	1593.8	1594.8
35°	1447.2	1428.9	1417.7	1407.6	1399.4	1393.3	1390.3	1387.2	1386.2	1382.1	1378.0
37.5°	1207.1	1193.8	1185.7	1179.6	1172.5	1166.4	1167.4	1168.4	1171.4	1169.4	1170.4
40°	952.6	949.6	952.6	945.5	943.4	945.5	950.6	957.7	961.8	965.9	973.0
42.5°	724.6	729.7	736.9	736.9	739.9	744.0	750.1	761.3	767.4	774.5	782.7
45°	545.5	551.6	560.8	563.8	565.9	570.9	578.1	587.2	591.3	597.4	604.5
47.5°	420.3	424.4	429.5	434.6	439.7	441.7	448.8	448.8	453.9	458.0	460.0
50°	327.7	331.8	335.8	338.9	341.0	344.0	346.0	349.1	350.1	352.1	353.1
52.5°	256.5	261.6	261.6	263.6	266.6	269.7	268.7	269.7	270.7	270.7	273.8
55°	200.5	200.5	203.6	203.6	205.6	204.6	205.6	205.6	205.6	205.6	206.6
57.5°	149.6	150.6	153.7	151.6	150.6	152.7	150.6	152.7	151.6	153.7	150.6
60°	115.0	115.0	116.0	116.0	117.0	117.0	117.0	116.0	116.0	115.0	115.0
62.5°	86.5	87.5	88.6	87.5	87.5	87.5	86.5	86.5	85.5	84.5	84.5
65°	58.0	57.0	59.0	57.0	58.0	58.0	57.0	58.0	55.0	56.0	55.0
67.5°	41.7	40.7	39.7	40.7	39.7	38.7	38.7	39.7	40.7	37.7	37.7
70°	27.5	28.5	27.5	28.5	29.5	29.5	28.5	27.5	28.5	26.5	27.5
72.5°	17.3	17.3	17.3	17.3	17.3	18.3	18.3	18.3	16.3	16.3	15.2
75°	8.1	11.2	9.2	8.1	11.2	11.2	10.2	10.2	9.2	9.2	9.2
77.5°	8.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.1	6.1	5.1
80°	4.1	4.1	4.1	3.1	4.1	4.1	5.1	4.1	4.1	3.1	5.1
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: P248965

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2107.8	2106.8	2107.8	2108.8	2107.8	2106.8	2107.8	2108.8	2104.7	2103.7	2105.7
5°	2152.6	2152.6	2154.6	2155.6	2154.6	2152.6	2152.6	2148.5	2145.4	2142.4	2141.4
7.5°	2191.2	2193.3	2195.3	2196.3	2195.3	2193.3	2191.2	2185.1	2179.0	2173.9	2169.9
10°	2214.7	2217.7	2221.8	2223.8	2221.8	2217.7	2214.7	2207.5	2199.4	2191.2	2185.1
12.5°	2224.8	2227.9	2233.0	2232.0	2233.0	2227.9	2224.8	2214.7	2205.5	2194.3	2185.1
15°	2217.7	2221.8	2226.8	2228.9	2226.8	2221.8	2217.7	2207.5	2199.4	2187.2	2178.0
17.5°	2195.3	2201.4	2204.5	2207.5	2204.5	2201.4	2195.3	2187.2	2176.0	2165.8	2156.6
20°	2164.8	2168.9	2172.9	2173.9	2172.9	2168.9	2164.8	2155.6	2138.3	2136.3	2129.2
22.5°	2121.0	2124.1	2133.2	2130.2	2133.2	2124.1	2121.0	2112.9	2106.8	2095.6	2088.4
25°	2057.9	2061.0	2062.0	2063.0	2062.0	2061.0	2057.9	2050.8	2044.7	2036.5	2032.5
27.5°	1949.0	1949.0	1951.0	1952.1	1951.0	1949.0	1949.0	1943.9	1939.8	1935.8	1931.7
30°	1784.1	1784.1	1784.1	1789.2	1784.1	1784.1	1784.1	1783.1	1783.1	1784.1	1784.1
32.5°	1593.8	1591.8	1589.8	1591.8	1589.8	1591.8	1593.8	1594.8	1593.8	1596.9	1601.9
35°	1378.0	1377.0	1380.1	1376.0	1380.1	1377.0	1378.0	1378.0	1382.1	1386.2	1387.2
37.5°	1171.4	1169.4	1173.5	1169.4	1173.5	1169.4	1171.4	1170.4	1169.4	1171.4	1168.4
40°	975.0	977.0	977.0	985.2	977.0	977.0	975.0	973.0	965.9	961.8	957.7
42.5°	786.7	792.8	790.8	796.9	790.8	792.8	786.7	782.7	774.5	767.4	761.3
45°	608.6	612.7	612.7	614.7	612.7	612.7	608.6	604.5	597.4	591.3	587.2
47.5°	467.1	467.1	467.1	468.2	467.1	467.1	467.1	460.0	458.0	453.9	448.8
50°	355.2	356.2	357.3	358.3	357.3	356.2	355.2	353.1	352.1	350.1	349.1
52.5°	272.8	273.8	271.8	273.8	271.8	273.8	272.8	273.8	270.7	270.7	269.7
55°	206.6	205.6	206.6	207.6	206.6	205.6	206.6	206.6	205.6	205.6	205.6
57.5°	151.6	149.6	149.6	149.6	149.6	149.6	151.6	150.6	153.7	151.6	152.7
60°	113.0	114.0	114.0	115.0	114.0	114.0	113.0	115.0	115.0	116.0	116.0
62.5°	83.4	86.5	84.5	86.5	84.5	86.5	83.4	84.5	84.5	85.5	86.5
65°	54.0	54.0	54.0	55.0	54.0	54.0	54.0	55.0	56.0	55.0	58.0
67.5°	36.7	37.7	39.7	38.7	39.7	37.7	36.7	37.7	37.7	40.7	39.7
70°	29.5	26.5	26.5	29.5	26.5	26.5	29.5	27.5	26.5	28.5	27.5
72.5°	17.3	15.2	17.3	17.3	17.3	15.2	17.3	15.2	16.3	16.3	18.3
75°	9.2	8.1	7.1	10.2	7.1	8.1	9.2	9.2	9.2	9.2	10.2
77.5°	6.1	5.1	7.1	7.1	7.1	5.1	6.1	5.1	6.1	5.1	6.1
80°	3.1	4.1	3.1	5.1	3.1	4.1	3.1	5.1	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: P248965

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2105.7	2102.7	2103.7	2097.6	2097.6	2095.6	2096.6	2091.5	2089.5	2087.4	2090.5
5°	2136.3	2131.2	2127.1	2118.0	2112.9	2106.8	2103.7	2095.6	2088.4	2082.3	2081.3
7.5°	2160.7	2149.5	2142.4	2130.2	2121.0	2113.9	2103.7	2092.5	2083.4	2075.2	2069.1
10°	2170.9	2159.7	2148.5	2133.2	2123.0	2109.8	2099.6	2085.4	2073.2	2062.0	2054.8
12.5°	2171.9	2157.6	2147.5	2130.2	2116.9	2102.7	2091.5	2075.2	2061.0	2049.8	2038.6
15°	2162.7	2149.5	2137.3	2119.0	2105.7	2092.5	2079.3	2062.0	2048.8	2035.5	2027.4
17.5°	2142.4	2130.2	2115.9	2098.6	2086.4	2074.2	2059.9	2045.7	2030.4	2016.2	2006.0
20°	2115.9	2102.7	2090.5	2073.2	2063.0	2049.8	2036.5	2021.3	2009.0	1994.8	1983.6
22.5°	2076.2	2064.0	2052.8	2042.6	2026.3	2016.2	2007.0	1989.7	1977.5	1964.3	1952.1
25°	2019.2	2007.0	1997.9	1985.6	1978.5	1967.3	1958.1	1942.9	1931.7	1919.5	1909.3
27.5°	1925.6	1918.5	1913.4	1906.2	1900.2	1895.1	1890.0	1877.8	1869.6	1858.4	1848.3
30°	1785.1	1784.1	1781.1	1778.0	1782.1	1782.1	1782.1	1780.1	1772.9	1764.8	1757.7
32.5°	1605.0	1607.1	1611.1	1614.2	1622.3	1631.5	1639.6	1643.7	1643.7	1638.6	1635.5
35°	1390.3	1393.3	1399.4	1407.6	1417.7	1428.9	1447.2	1451.3	1454.4	1454.4	1450.3
37.5°	1167.4	1166.4	1172.5	1179.6	1185.7	1193.8	1207.1	1210.1	1215.2	1213.2	1209.1
40°	950.6	945.5	943.4	945.5	952.6	949.6	952.6	950.6	950.6	943.4	943.4
42.5°	750.1	744.0	739.9	736.9	736.9	729.7	724.6	719.6	716.5	711.4	710.4
45°	578.1	570.9	565.9	563.8	560.8	551.6	545.5	539.4	532.3	530.3	531.3
47.5°	448.8	441.7	439.7	434.6	429.5	424.4	420.3	413.2	412.2	408.1	412.2
50°	346.0	344.0	341.0	338.9	335.8	331.8	327.7	323.7	321.6	321.6	322.6
52.5°	268.7	269.7	266.6	263.6	261.6	261.6	256.5	255.5	255.5	251.4	255.5
55°	205.6	204.6	205.6	203.6	203.6	200.5	200.5	197.4	197.4	194.4	196.4
57.5°	150.6	152.7	150.6	151.6	153.7	150.6	149.6	146.5	148.6	146.5	147.6
60°	117.0	117.0	117.0	116.0	116.0	115.0	115.0	114.0	114.0	111.9	114.0
62.5°	86.5	87.5	87.5	87.5	88.6	87.5	86.5	87.5	86.5	86.5	87.5
65°	57.0	58.0	58.0	57.0	59.0	57.0	58.0	59.0	60.0	59.0	60.0
67.5°	38.7	38.7	39.7	40.7	39.7	40.7	41.7	40.7	41.7	43.8	41.7
70°	28.5	29.5	29.5	28.5	27.5	28.5	27.5	30.5	30.5	30.5	32.5
72.5°	18.3	18.3	17.3	17.3	17.3	17.3	17.3	20.4	18.3	17.3	19.4
75°	10.2	11.2	11.2	8.1	9.2	11.2	8.1	9.2	12.2	10.2	12.2
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	8.1	7.1	7.1	7.1	8.1
80°	5.1	4.1	4.1	3.1	4.1	4.1	4.1	6.1	5.1	5.1	6.1
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: P248965

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2082.3	2082.3	2081.3	2079.3	2075.2	2075.2	2074.2	2071.1	2069.1	2068.1	2068.1
5°	2072.1	2068.1	2064.0	2052.8	2052.8	2050.8	2044.7	2040.6	2038.6	2033.5	2031.5
7.5°	2063.0	2050.8	2043.7	2036.5	2027.4	2023.3	2016.2	2013.1	2006.0	2000.9	1997.9
10°	2040.6	2032.5	2023.3	2012.1	2005.0	1996.9	1988.7	1982.6	1973.4	1968.3	1964.3
12.5°	2025.3	2013.1	2005.0	1992.8	1980.6	1973.4	1962.3	1955.1	1946.0	1935.8	1929.7
15°	2011.1	1997.9	1986.7	1973.4	1960.2	1952.1	1938.8	1930.7	1917.5	1907.3	1900.2
17.5°	1989.7	1978.5	1966.3	1950.0	1937.8	1927.7	1913.4	1903.2	1891.0	1877.8	1870.6
20°	1967.3	1954.1	1941.9	1925.6	1913.4	1901.2	1886.9	1875.7	1861.5	1849.3	1841.1
22.5°	1937.8	1922.5	1912.4	1896.1	1881.8	1868.6	1855.4	1842.2	1828.9	1818.7	1809.6
25°	1895.1	1878.8	1867.6	1854.3	1841.1	1831.0	1814.7	1806.5	1793.3	1784.1	1775.0
27.5°	1834.0	1821.8	1811.6	1798.4	1787.2	1779.1	1766.8	1758.7	1747.5	1739.3	1732.2
30°	1744.5	1734.3	1725.1	1711.9	1703.7	1696.6	1685.4	1678.3	1670.1	1661.0	1659.0
32.5°	1624.4	1616.2	1607.1	1597.9	1591.8	1587.7	1578.5	1574.5	1566.3	1561.2	1556.2
35°	1443.2	1436.1	1431.0	1426.9	1424.9	1425.9	1423.9	1427.9	1429.9	1428.9	1429.9
37.5°	1206.1	1202.0	1204.0	1207.1	1217.3	1230.5	1242.7	1261.0	1273.2	1285.5	1296.6
40°	941.4	944.5	952.6	970.9	997.4	1026.9	1054.4	1089.0	1123.6	1148.0	1170.4
42.5°	710.4	719.6	739.9	766.4	806.1	849.8	892.6	943.4	985.2	1025.9	1054.4
45°	534.3	546.5	573.0	609.7	653.4	704.3	758.2	815.2	865.1	906.8	938.4
47.5°	416.3	427.5	453.9	492.6	546.5	599.5	655.4	714.5	766.4	807.1	834.6
50°	328.7	343.0	366.4	407.1	461.1	517.0	575.0	633.0	681.9	716.5	740.9
52.5°	258.5	271.8	294.1	336.9	391.9	447.8	501.7	558.8	601.5	635.1	651.4
55°	200.5	212.7	236.1	271.8	323.7	378.6	432.5	481.4	521.1	545.5	560.8
57.5°	152.7	161.8	178.1	213.7	260.6	311.4	357.3	406.1	436.6	453.9	464.1
60°	116.0	123.2	140.5	167.9	210.7	254.5	293.1	329.8	354.2	368.4	378.6
62.5°	87.5	95.7	107.9	131.3	163.8	199.5	232.0	259.5	279.9	289.1	296.2
65°	60.0	66.1	75.3	93.6	121.1	146.5	172.0	192.4	205.6	215.8	219.8
67.5°	44.8	48.8	54.0	68.2	87.5	107.9	125.2	139.4	153.7	157.8	164.9
70°	33.6	36.7	41.7	51.9	63.1	77.3	91.6	99.7	109.9	117.0	119.1
72.5°	21.4	22.4	27.5	33.6	42.7	51.9	61.1	68.2	74.3	78.4	80.4
75°	12.2	18.3	18.3	24.4	30.5	34.6	40.7	45.8	48.8	51.9	51.9
77.5°	8.1	11.2	12.2	15.2	18.3	23.4	28.5	31.5	34.6	35.6	35.6
80°	7.1	8.1	8.1	11.2	13.2	17.3	20.4	21.4	23.4	24.4	26.5
82.5°	3.1	4.1	5.1	8.1	9.2	9.2	12.2	13.2	15.2	16.3	16.3
85°	1.0	2.1	2.1	3.1	5.1	6.1	7.1	8.1	9.2	9.2	10.2
87.5°	1.0	1.0	0.0	1.0	2.1	2.1	4.1	4.1	4.1	6.1	6.1
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: P248965

CATALOG NUMBER: LD8B60D010 ER8B609730 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2066.1	2067.1	2063.0	2062.0	2059.9	2061.0	2063.0
5°	2028.4	2029.4	2025.3	2021.3	2021.3	2020.2	2021.3
7.5°	1992.8	1993.8	1987.7	1985.6	1981.6	1982.6	1982.6
10°	1957.1	1957.1	1948.0	1947.0	1943.9	1942.9	1942.9
12.5°	1922.5	1919.5	1912.4	1908.3	1910.4	1904.2	1904.2
15°	1892.0	1886.9	1877.8	1874.7	1869.6	1867.6	1867.6
17.5°	1860.5	1856.4	1848.3	1842.2	1836.0	1835.0	1836.0
20°	1829.9	1825.9	1815.7	1811.6	1806.5	1806.5	1804.5
22.5°	1799.4	1795.3	1786.2	1783.1	1776.0	1776.0	1777.0
25°	1767.8	1764.8	1754.6	1752.6	1751.6	1747.5	1749.5
27.5°	1725.1	1723.1	1714.9	1711.9	1707.8	1706.8	1708.8
30°	1646.7	1643.7	1637.6	1634.5	1627.4	1628.4	1630.4
32.5°	1549.0	1545.0	1536.8	1533.7	1527.7	1525.6	1526.6
35°	1426.9	1423.9	1416.7	1416.7	1410.6	1408.6	1410.6
37.5°	1302.8	1305.8	1302.8	1305.8	1302.8	1301.7	1302.8
40°	1185.7	1196.9	1198.9	1210.1	1206.1	1212.1	1211.1
42.5°	1073.7	1092.0	1099.2	1108.3	1106.3	1110.4	1113.4
45°	960.7	976.0	983.2	989.3	990.3	992.3	993.3
47.5°	853.9	866.1	867.1	874.2	873.2	873.2	876.3
50°	754.2	762.3	764.3	769.4	765.4	763.3	764.3
52.5°	661.6	669.7	667.6	669.7	664.6	662.6	663.6
55°	566.9	570.9	570.9	570.9	564.9	564.9	564.9
57.5°	470.2	471.2	469.2	470.2	469.2	463.1	462.1
60°	381.7	381.7	380.6	381.7	378.6	375.6	375.6
62.5°	298.2	300.2	304.3	300.2	298.2	300.2	297.2
65°	222.9	227.0	225.9	228.0	227.0	227.0	224.9
67.5°	167.9	168.9	170.0	171.0	171.0	171.0	171.0
70°	123.2	126.2	125.2	125.2	125.2	125.2	131.3
72.5°	82.4	86.5	85.5	87.5	87.5	89.6	87.5
75°	56.0	60.0	58.0	61.1	60.0	58.0	63.1
77.5°	37.7	39.7	40.7	41.7	40.7	39.7	40.7
80°	26.5	28.5	27.5	28.5	28.5	28.5	29.5
82.5°	16.3	19.4	18.3	19.4	18.3	19.4	19.4
85°	11.2	12.2	10.2	12.2	11.2	11.2	13.2
87.5°	7.1	6.1	6.1	7.1	6.1	7.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)