

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: P245524

Luminaire Tested: **LD8B40D010 ER8B40930 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B40930 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3712.7 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

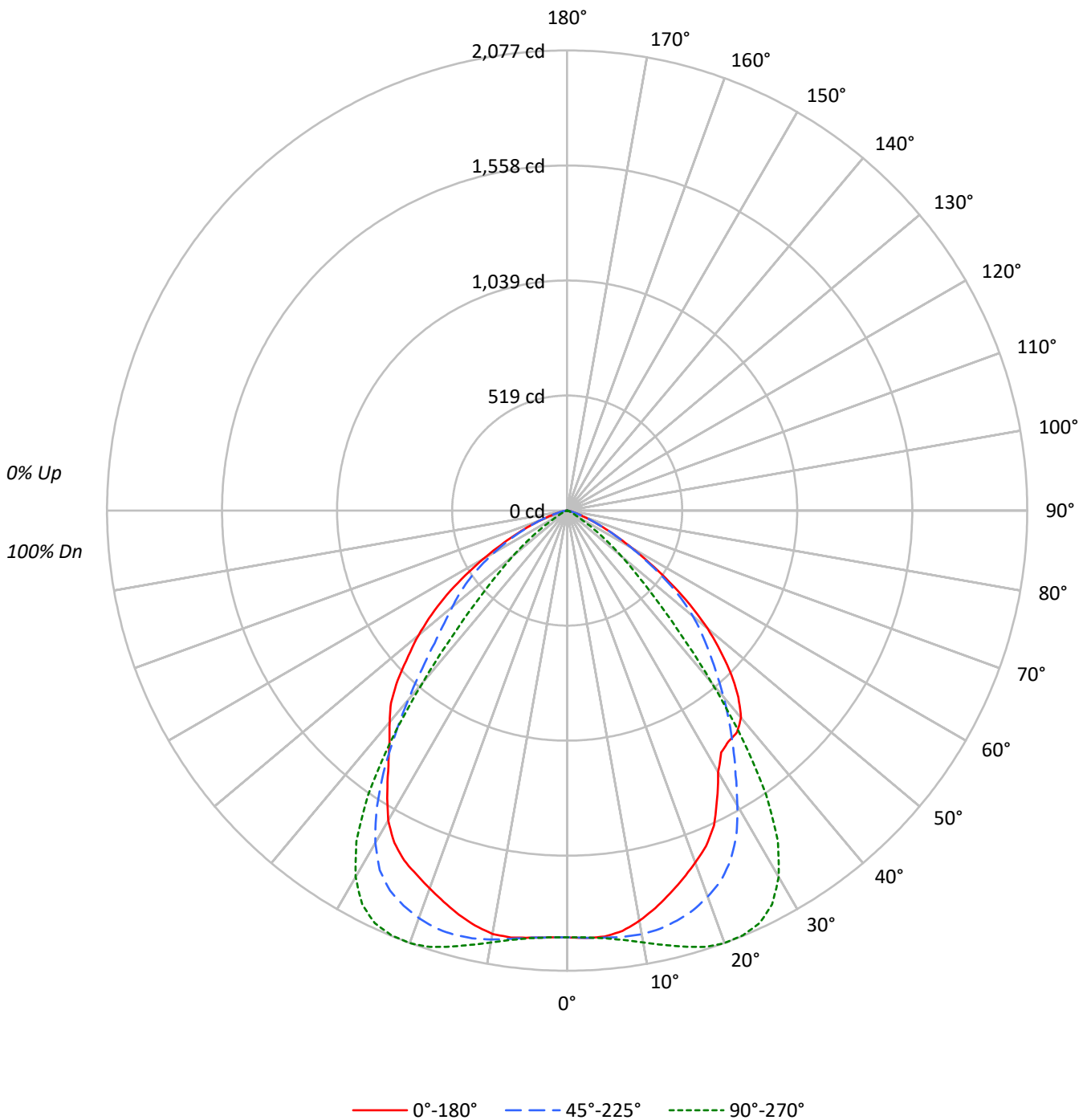
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	185.2	5.0
10°-20°	548.7	14.8
20°-30°	837.1	22.5
30°-40°	873.5	23.5
40°-50°	656.1	17.7
50°-60°	403.7	10.9
60°-70°	164.3	4.4
70°-80°	38.7	1.0
80°-90°	5.3	0.1
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°	1571.0	42.3
0°-40°	2444.6	65.8
0°-60°	3504.4	94.4
0°-90°	3712.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1926	1926	1926	1926	1926	
5°	1930	1935	1937	1935	1935	183
15°	1790	1916	2038	1981	1888	504
25°	1568	1744	2055	1892	1742	713
35°	1271	1306	1565	1446	1406	802
45°	1049	908	566	846	1082	800
55°	566	538	148	538	664	509
65°	177	179	22	240	255	184
75°	31	31	4	54	56	37
85°	3	3	1	7	9	4
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°	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0
2.5°	1931.1	1928.1	1931.1	1931.1	1932.2	1930.1	1931.1	1932.2	1930.1	1930.1	1930.1
5°	1930.1	1928.1	1930.1	1929.1	1931.1	1931.1	1933.3	1933.3	1935.3	1935.3	1938.3
7.5°	1913.8	1909.7	1913.8	1916.9	1918.9	1923.0	1928.1	1932.2	1936.3	1940.3	1945.5
10°	1880.0	1880.0	1883.2	1889.2	1895.4	1902.6	1911.8	1922.0	1932.2	1941.3	1950.5
12.5°	1838.1	1835.1	1841.2	1849.4	1858.6	1869.8	1884.2	1899.5	1915.8	1934.2	1948.5
15°	1790.1	1787.0	1794.2	1802.3	1813.6	1829.9	1847.3	1867.8	1891.4	1915.8	1939.3
17.5°	1741.0	1740.0	1747.2	1758.4	1767.6	1785.0	1807.5	1831.9	1858.6	1891.4	1922.0
20°	1690.9	1689.9	1697.1	1706.3	1718.5	1734.9	1757.4	1786.0	1817.7	1854.5	1890.2
22.5°	1638.8	1639.8	1646.0	1656.2	1666.4	1683.7	1707.3	1735.9	1770.6	1810.5	1850.4
25°	1568.3	1563.1	1571.3	1581.5	1598.9	1613.2	1635.8	1666.4	1702.1	1744.1	1791.1
27.5°	1466.0	1464.9	1472.2	1481.3	1496.6	1514.0	1538.6	1570.3	1608.1	1654.1	1700.1
30°	1363.8	1365.8	1368.9	1378.0	1388.4	1405.7	1430.3	1456.9	1492.6	1536.6	1585.7
32.5°	1294.3	1294.3	1298.3	1304.5	1311.7	1320.9	1338.2	1357.6	1385.2	1415.9	1451.7
35°	1270.8	1266.6	1270.8	1271.8	1272.8	1274.8	1277.9	1284.0	1293.2	1306.5	1319.9
37.5°	1260.6	1257.4	1257.4	1253.4	1248.2	1242.1	1234.0	1224.7	1214.5	1201.3	1191.1
40°	1220.7	1218.6	1216.5	1212.5	1201.3	1188.9	1175.7	1154.2	1130.6	1098.0	1065.3
42.5°	1144.0	1142.0	1141.0	1132.8	1122.5	1108.2	1092.9	1070.3	1040.7	998.8	951.7
45°	1048.9	1044.8	1041.7	1034.6	1027.4	1015.2	1000.8	980.4	950.7	907.8	851.6
47.5°	938.5	936.5	935.5	932.3	925.2	918.0	908.9	892.5	865.9	825.1	766.8
50°	827.1	822.9	825.1	824.0	820.9	815.9	809.7	798.5	778.0	741.2	688.1
52.5°	699.3	699.3	698.3	701.3	702.3	701.3	702.3	690.1	672.7	645.0	600.1
55°	566.3	566.3	569.5	573.5	577.7	578.7	577.7	572.5	560.3	537.7	497.8
57.5°	441.7	439.7	445.7	451.9	455.9	460.1	456.9	452.9	445.7	427.3	396.6
60°	336.3	336.3	340.4	344.5	348.6	352.7	351.7	350.6	344.5	332.3	307.7
62.5°	247.4	248.4	248.4	251.4	255.6	259.6	262.8	259.6	256.6	248.4	232.0
65°	176.9	175.8	176.9	179.9	183.1	187.1	189.1	188.1	185.1	178.9	166.7
67.5°	118.6	117.6	121.6	122.6	124.8	128.8	127.8	128.8	127.8	122.6	112.4
70°	77.7	75.7	77.7	76.7	79.7	80.8	82.8	83.9	82.8	79.7	76.7
72.5°	48.1	47.1	48.1	49.1	50.1	51.1	53.1	53.1	52.1	50.1	46.0
75°	30.7	27.6	28.6	26.6	28.6	28.6	30.7	31.7	30.7	30.7	28.6
77.5°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	19.4	20.4	18.4	17.4
80°	9.2	9.2	10.2	10.2	10.2	11.2	10.2	10.2	10.2	11.2	8.2
82.5°	7.2	6.2	6.2	6.2	7.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	3.0	4.0	3.0	2.0	3.0	3.0	4.0	3.0	3.0	3.0	4.0
87.5°	1.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0
2.5°	1931.1	1929.1	1929.1	1928.1	1930.1	1928.1	1929.1	1928.1	1928.1	1930.1	1928.1
5°	1938.3	1939.3	1937.3	1936.3	1939.3	1939.3	1939.3	1937.3	1937.3	1938.3	1937.3
7.5°	1948.5	1950.5	1951.7	1952.7	1954.7	1955.7	1955.7	1954.7	1953.7	1956.7	1952.7
10°	1959.8	1962.9	1969.0	1972.1	1977.2	1977.2	1979.2	1979.2	1977.2	1979.2	1978.2
12.5°	1955.7	1974.1	1984.3	1991.5	1998.6	2004.8	2006.8	2007.8	2006.8	2011.0	2006.8
15°	1962.9	1978.2	1994.6	2006.8	2020.2	2027.2	2029.3	2037.5	2039.5	2040.6	2034.4
17.5°	1951.7	1979.2	1996.6	2015.0	2034.4	2047.7	2059.9	2065.1	2066.1	2068.1	2059.9
20°	1926.0	1956.7	1983.3	2009.8	2032.4	2052.8	2063.1	2077.3	2073.3	2081.5	2070.2
22.5°	1891.4	1926.0	1959.8	1994.6	2018.0	2042.6	2064.1	2074.3	2079.5	2079.5	2067.1
25°	1836.1	1877.0	1913.8	1949.5	1985.4	2015.0	2039.5	2054.9	2057.9	2056.9	2042.6
27.5°	1750.2	1794.2	1837.1	1878.0	1922.0	1956.7	1985.4	2003.8	2008.8	2008.8	1993.6
30°	1631.6	1678.7	1720.6	1769.6	1814.7	1853.5	1893.4	1909.7	1918.9	1918.9	1901.6
32.5°	1490.6	1530.4	1569.3	1617.3	1666.4	1710.3	1748.2	1770.6	1781.9	1780.9	1765.6
35°	1337.2	1356.6	1386.2	1422.1	1466.0	1506.8	1543.7	1565.1	1584.6	1583.5	1569.3
37.5°	1183.9	1178.7	1181.8	1195.1	1222.7	1251.4	1280.0	1300.4	1316.7	1323.9	1320.9
40°	1033.6	1007.0	981.4	972.2	974.3	984.5	999.8	1015.2	1033.6	1042.8	1046.9
42.5°	898.6	853.6	808.7	774.9	755.4	749.4	756.6	761.6	772.9	786.2	799.5
45°	790.3	730.0	670.7	618.5	585.8	566.3	562.3	566.3	572.5	585.8	603.2
47.5°	701.3	630.8	564.3	506.0	458.0	432.5	425.3	423.3	429.3	441.7	465.1
50°	622.6	552.1	478.4	411.0	360.8	332.3	322.1	317.9	325.1	334.3	355.8
52.5°	536.7	467.2	391.6	326.1	274.0	244.4	233.1	227.0	231.0	243.4	264.8
55°	443.7	379.2	310.7	243.4	193.3	165.6	152.3	148.2	152.3	165.6	187.1
57.5°	350.6	296.5	239.2	175.8	130.8	103.2	89.9	85.9	97.1	102.2	124.8
60°	274.0	230.0	180.9	128.8	89.9	68.5	55.2	52.1	57.3	66.5	84.9
62.5°	205.5	177.9	139.0	92.0	66.5	43.9	36.8	33.7	36.8	43.9	58.3
65°	149.3	127.8	97.1	67.5	45.0	32.7	24.5	22.5	25.6	30.7	42.9
67.5°	102.2	85.9	67.5	47.1	30.7	20.4	17.4	17.4	18.4	22.5	31.7
70°	66.5	56.3	42.9	30.7	20.4	15.4	13.2	11.2	13.2	16.4	21.4
72.5°	41.9	35.8	27.6	21.4	15.4	11.2	9.2	8.2	10.2	12.2	16.4
75°	25.6	19.4	14.3	11.2	8.2	8.2	8.2	4.0	5.2	8.2	10.2
77.5°	15.4	13.2	11.2	9.2	7.2	4.0	4.0	4.0	5.2	6.2	9.2
80°	8.2	7.2	5.2	5.2	4.0	3.0	4.0	3.0	2.0	5.2	6.2
82.5°	5.2	4.0	4.0	4.0	5.2	2.0	3.0	2.0	3.0	4.0	3.0
85°	3.0	3.0	3.0	2.0	5.2	2.0	2.0	1.0	1.0	2.0	2.0
87.5°	0.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0
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°	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0	1926.0
2.5°	1929.1	1928.1	1929.1	1928.1	1928.1	1928.1	1929.1	1929.1	1928.1	1928.1	1930.1
5°	1937.3	1937.3	1937.3	1936.3	1935.3	1935.3	1937.3	1937.3	1934.2	1937.3	1937.3
7.5°	1954.7	1951.7	1954.7	1950.5	1948.5	1949.5	1950.5	1948.5	1946.5	1947.5	1947.5
10°	1977.2	1974.1	1974.1	1971.1	1967.9	1965.9	1963.9	1958.7	1953.7	1952.7	1948.5
12.5°	2003.8	1998.6	1995.6	1989.4	1984.3	1977.2	1971.1	1962.9	1952.7	1945.5	1938.3
15°	2030.4	2022.2	2015.0	2004.8	1993.6	1981.3	1967.9	1954.7	1938.3	1924.0	1911.8
17.5°	2051.8	2040.6	2027.2	2011.0	1994.6	1976.1	1956.7	1937.3	1913.8	1895.4	1881.0
20°	2058.9	2042.6	2025.2	2003.8	1982.3	1956.7	1932.2	1906.6	1880.0	1860.6	1844.3
22.5°	2049.7	2030.4	2008.8	1986.4	1957.7	1930.1	1901.6	1871.8	1848.3	1821.7	1806.5
25°	2024.2	2000.6	1977.2	1950.5	1923.0	1892.4	1861.6	1831.0	1802.3	1788.0	1768.6
27.5°	1972.1	1946.5	1920.9	1893.4	1861.6	1831.0	1799.3	1769.6	1745.1	1725.7	1714.5
30°	1880.0	1850.4	1820.7	1791.1	1763.4	1731.8	1702.1	1677.6	1653.1	1637.8	1626.6
32.5°	1739.0	1712.4	1682.7	1654.1	1628.6	1602.0	1577.5	1555.9	1538.6	1528.4	1520.2
35°	1548.8	1522.2	1499.8	1479.3	1457.9	1446.5	1431.3	1419.0	1411.8	1407.8	1406.7
37.5°	1309.6	1294.3	1287.1	1283.0	1278.9	1275.9	1277.9	1283.0	1287.1	1294.3	1302.4
40°	1054.0	1067.3	1071.5	1085.7	1099.0	1116.4	1135.8	1158.3	1176.7	1200.1	1216.5
42.5°	820.9	845.5	874.0	904.8	937.5	969.2	1008.0	1043.8	1076.5	1106.1	1131.8
45°	630.8	668.6	711.5	755.4	799.5	845.5	892.5	936.5	975.3	1007.0	1033.6
47.5°	491.8	533.7	588.9	643.0	696.3	750.4	802.5	848.5	881.2	911.9	935.5
50°	389.5	437.5	497.8	560.3	618.5	675.7	731.0	773.9	806.7	831.1	848.5
52.5°	301.5	358.8	420.2	485.6	547.9	610.4	661.4	701.3	727.9	749.4	762.6
55°	224.9	281.1	346.6	414.0	477.4	537.7	585.8	620.6	644.1	656.3	663.5
57.5°	162.5	213.7	279.1	346.6	403.8	461.1	500.0	531.6	544.9	552.1	555.1
60°	118.6	165.6	223.9	282.2	336.3	382.4	416.1	437.5	447.8	451.9	450.9
62.5°	86.9	127.8	177.9	227.0	270.9	308.7	335.3	349.6	354.8	356.8	353.7
65°	66.5	98.1	141.1	178.9	212.7	240.2	259.6	268.9	272.0	270.9	268.9
67.5°	49.1	73.6	105.3	134.0	158.5	179.9	190.1	198.3	200.3	197.3	194.3
70°	34.8	54.1	76.7	96.1	114.5	126.8	138.0	139.0	139.0	138.0	136.0
72.5°	24.5	37.8	52.1	65.5	76.7	85.9	89.9	93.0	92.0	91.0	88.9
75°	16.4	23.5	37.8	40.9	51.1	54.1	58.3	58.3	59.3	56.3	56.3
77.5°	10.2	16.4	22.5	26.6	30.7	34.8	36.8	36.8	37.8	36.8	36.8
80°	6.2	10.2	12.2	18.4	18.4	21.4	22.5	23.5	21.4	24.5	21.4
82.5°	4.0	6.2	9.2	9.2	11.2	13.2	13.2	14.3	14.3	13.2	13.2
85°	3.0	4.0	5.2	6.2	6.2	7.2	6.2	6.2	7.2	8.2	7.2
87.5°	1.0	2.0	1.0	2.0	2.0	4.0	3.0	3.0	3.0	4.0	4.0
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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CATALOG NUMBER: LD8B40D010 ER8B40930 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1926.0	1926.0	1926.0	1926.0
2.5°	1928.1	1929.1	1928.1	1928.1
5°	1937.3	1936.3	1937.3	1935.3
7.5°	1944.5	1944.5	1943.5	1943.5
10°	1944.5	1940.3	1940.3	1940.3
12.5°	1929.1	1924.0	1920.9	1918.9
15°	1902.6	1893.4	1889.2	1888.2
17.5°	1867.8	1859.6	1854.5	1851.4
20°	1827.9	1819.7	1813.6	1814.7
22.5°	1793.2	1784.0	1779.8	1777.8
25°	1758.4	1747.2	1744.1	1742.0
27.5°	1702.1	1696.1	1692.9	1689.9
30°	1616.3	1613.2	1608.1	1615.2
32.5°	1517.2	1512.0	1508.0	1511.0
35°	1407.8	1404.6	1407.8	1405.7
37.5°	1307.5	1310.6	1314.7	1316.7
40°	1228.8	1240.1	1244.2	1246.2
42.5°	1150.1	1163.4	1171.6	1176.7
45°	1053.0	1066.3	1075.5	1081.7
47.5°	952.8	964.1	973.3	972.2
50°	861.8	868.0	872.0	876.2
52.5°	769.8	769.8	770.8	770.8
55°	665.5	663.5	662.5	663.5
57.5°	551.0	549.0	547.9	544.9
60°	446.7	440.7	436.5	436.5
62.5°	349.6	342.5	339.4	338.4
65°	262.8	261.8	255.6	254.6
67.5°	190.1	186.1	181.9	183.1
70°	134.0	127.8	127.8	125.8
72.5°	86.9	83.9	82.8	82.8
75°	54.1	54.1	52.1	56.3
77.5°	35.8	35.8	34.8	35.8
80°	21.4	21.4	21.4	20.4
82.5°	13.2	14.3	13.2	13.2
85°	7.2	8.2	6.2	9.2
87.5°	4.0	5.2	4.0	5.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)