

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: P245403

Luminaire Tested: **LD8B30D010 ER8B30840 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B30840 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3133.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

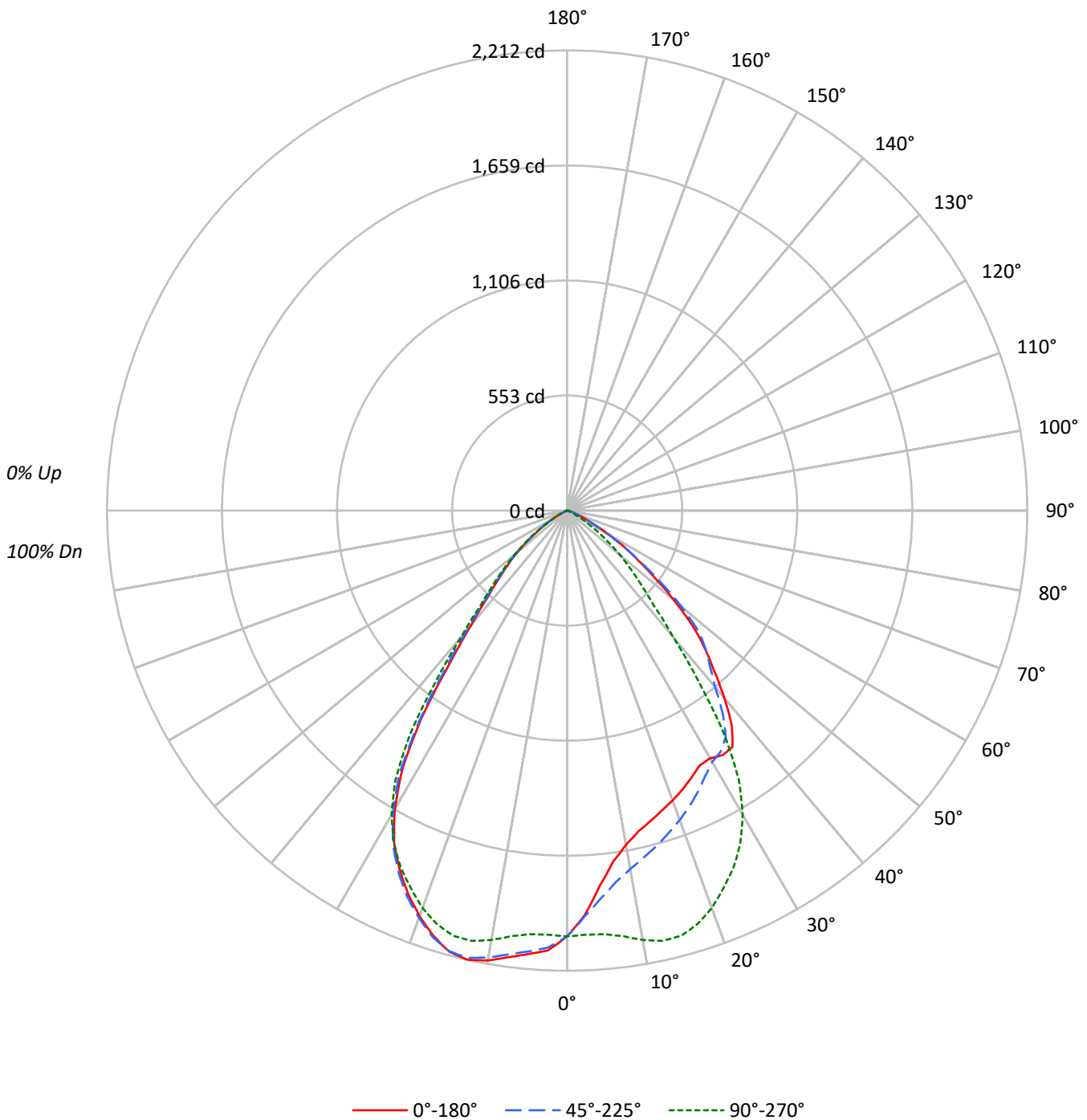
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	63113	63113	63113
5°	55996	63270	66236
10°	51054	65621	68752
15°	49339	67539	70061
20°	48636	66704	68082
25°	48158	64404	64809
30°	48941	60104	58993
35°	52167	49739	46137
40°	47278	31841	28834
45°	40805	21787	20287
50°	32195	15893	14963
55°	22349	9774	9193
60°	14228	4940	4410
65°	7099	1963	1488
70°	3931	974	532
75°	2824	703	262
80°	2291	479	89
85°	2477	389	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.8	6.1
10°-20°	551.0	17.6
20°-30°	799.7	25.5
30°-40°	787.6	25.1
40°-50°	493.7	15.8
50°-60°	238.2	7.6
60°-70°	57.7	1.8
70°-80°	11.7	0.4
80°-90°	2.7	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°	1541.4	49.2
0°-40°	2329.1	74.3
0°-60°	3061.0	97.7
0°-90°	3133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3133.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2047	2047	2047	2047	2047	
5°	1809	1870	2044	2127	2140	167
15°	1546	1667	2116	2193	2195	437
25°	1415	1489	1893	1919	1905	655
35°	1386	1329	1321	1246	1226	838
45°	936	942	500	479	465	715
55°	416	429	182	180	171	382
65°	97	96	27	23	20	111
75°	24	20	6	3	2	27
85°	7	5	1	0	0	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7
2.5°	1945.6	1933.3	1910.1	1938.1	1938.1	1922.5	1953.7	1934.9	1949.9	1973.6	1952.6
5°	1809.0	1798.8	1779.5	1809.0	1812.8	1798.3	1835.9	1821.9	1844.0	1873.0	1870.3
7.5°	1700.9	1688.0	1670.3	1700.9	1706.9	1697.2	1733.2	1726.8	1755.8	1793.4	1799.9
10°	1630.5	1617.1	1601.5	1629.4	1633.7	1627.3	1663.8	1660.1	1688.6	1732.1	1749.3
12.5°	1580.5	1569.2	1552.0	1581.6	1586.4	1577.3	1611.7	1610.1	1639.6	1685.3	1706.9
15°	1545.5	1532.1	1516.5	1541.8	1548.2	1538.0	1570.8	1567.6	1597.7	1642.9	1667.1
17.5°	1512.7	1500.4	1484.2	1507.9	1514.3	1503.6	1535.9	1530.5	1556.3	1599.3	1624.0
20°	1482.1	1468.6	1454.1	1478.3	1482.1	1469.7	1502.0	1495.0	1518.1	1557.9	1582.1
22.5°	1450.3	1436.4	1421.3	1445.0	1448.7	1436.4	1465.9	1457.9	1479.4	1515.4	1537.5
25°	1415.4	1402.5	1387.4	1409.5	1412.7	1399.3	1430.4	1420.2	1439.1	1470.8	1489.1
27.5°	1380.4	1368.1	1351.4	1374.0	1375.6	1362.7	1391.2	1377.2	1392.8	1421.8	1437.4
30°	1374.5	1360.5	1343.3	1361.6	1362.2	1345.5	1372.4	1355.7	1364.3	1385.8	1395.0
32.5°	1393.3	1379.4	1361.6	1376.7	1375.1	1356.8	1382.6	1362.2	1364.8	1376.1	1374.0
35°	1385.8	1369.1	1348.2	1364.3	1364.3	1342.3	1368.1	1343.9	1341.2	1342.8	1329.3
37.5°	1300.3	1287.4	1267.5	1283.1	1281.5	1264.8	1284.7	1264.8	1255.7	1251.9	1227.7
40°	1174.5	1158.9	1143.8	1160.5	1162.1	1144.4	1170.2	1147.6	1144.9	1134.1	1105.6
42.5°	1047.0	1041.6	1027.1	1041.1	1048.6	1033.6	1055.1	1044.3	1045.9	1043.3	1016.4
45°	935.7	926.6	915.8	931.9	936.8	929.3	950.8	944.3	950.8	964.2	942.2
47.5°	815.8	806.6	794.8	812.0	820.6	806.6	824.9	822.8	832.5	855.6	853.4
50°	671.1	664.7	662.5	664.7	670.1	663.6	676.5	677.0	683.5	715.2	717.4
52.5°	531.3	529.7	522.2	529.2	529.2	518.9	531.8	525.9	532.4	553.9	567.9
55°	415.7	414.1	409.2	415.7	408.7	404.9	408.7	402.8	397.9	414.6	429.1
57.5°	323.7	318.4	312.4	315.1	314.6	306.5	310.8	303.8	300.1	306.0	318.9
60°	230.7	229.1	223.7	226.4	228.5	222.6	226.9	223.7	217.3	222.1	222.6
62.5°	153.3	154.3	151.1	151.6	150.0	149.0	151.6	153.3	151.6	149.5	150.0
65°	97.3	96.8	96.3	96.8	97.9	95.7	97.3	98.4	96.8	96.8	96.3
67.5°	64.5	62.9	61.3	62.4	63.5	61.8	63.5	62.9	63.5	62.9	61.3
70°	43.6	43.0	42.5	43.0	43.0	41.9	43.0	42.5	43.0	42.5	40.9
72.5°	31.7	31.7	31.2	31.7	31.7	30.7	31.2	30.1	30.7	30.1	29.0
75°	23.7	23.7	23.1	23.7	23.1	22.6	23.1	22.6	21.5	21.5	20.4
77.5°	17.2	17.2	17.2	17.2	17.2	16.7	16.7	16.1	15.6	15.1	15.1
80°	12.9	12.4	12.4	12.4	12.4	11.8	12.4	11.8	11.3	10.8	10.2
82.5°	9.1	9.7	9.1	9.1	9.1	8.6	9.1	8.6	8.6	8.1	7.0
85°	7.0	7.0	7.0	7.0	7.0	6.5	6.5	6.5	5.9	5.9	5.4
87.5°	3.8	3.8	3.8	4.3	3.8	3.8	3.8	3.2	3.2	2.7	2.7
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7
2.5°	1980.6	1983.3	1977.4	1986.5	2022.0	1993.5	2005.3	2009.1	2036.0	2040.8	2037.6
5°	1905.3	1917.1	1924.7	1945.1	1984.3	1963.9	1984.9	1998.3	2032.7	2044.0	2046.7
7.5°	1846.1	1870.9	1889.2	1922.5	1968.7	1953.2	1984.9	2006.9	2048.9	2063.4	2070.4
10°	1802.0	1839.7	1871.4	1917.1	1969.3	1959.1	2000.5	2031.7	2078.5	2095.7	2104.3
12.5°	1768.7	1814.4	1856.9	1915.0	1971.4	1966.6	2016.6	2052.1	2101.6	2118.8	2129.0
15°	1732.1	1784.8	1834.3	1899.4	1960.1	1959.1	2012.8	2050.5	2101.0	2115.6	2125.2
17.5°	1688.6	1745.0	1799.4	1869.8	1930.0	1931.1	1985.4	2022.5	2072.0	2083.8	2090.3
20°	1644.5	1700.4	1754.7	1827.3	1886.5	1888.1	1941.3	1975.7	2023.1	2032.7	2034.4
22.5°	1597.7	1649.9	1704.2	1776.2	1833.2	1834.3	1887.0	1919.3	1959.6	1964.4	1968.7
25°	1544.5	1595.5	1646.6	1718.2	1772.5	1775.7	1823.6	1852.1	1889.2	1892.9	1894.5
27.5°	1489.1	1531.0	1579.9	1641.3	1696.1	1694.0	1739.1	1771.4	1804.7	1802.6	1802.0
30°	1433.1	1468.1	1498.2	1557.4	1597.7	1599.3	1641.8	1657.4	1692.3	1688.0	1687.5
32.5°	1393.9	1403.0	1411.1	1441.2	1479.4	1465.9	1495.0	1514.3	1538.5	1536.9	1537.5
35°	1321.8	1305.2	1281.0	1285.3	1308.4	1287.4	1303.0	1302.5	1327.2	1321.3	1328.3
37.5°	1198.7	1151.4	1097.6	1066.9	1071.2	1044.9	1039.5	1052.4	1061.0	1044.3	1050.3
40°	1067.5	997.6	913.7	843.7	840.0	807.2	801.3	788.4	805.0	791.0	795.4
42.5°	970.7	878.2	767.9	683.0	664.7	637.2	621.1	619.0	623.8	614.1	611.4
45°	896.5	798.0	671.7	574.3	553.9	524.3	508.2	502.3	502.8	499.6	496.9
47.5°	809.3	710.4	582.4	482.9	459.8	431.8	415.7	411.9	414.1	409.8	406.5
50°	688.9	600.1	483.4	392.6	372.1	351.7	338.8	335.0	334.5	331.3	329.1
52.5°	559.3	485.6	384.5	308.7	290.4	270.5	261.4	256.5	257.1	253.8	250.6
55°	432.9	387.2	297.9	233.4	216.7	201.1	192.5	186.6	185.0	181.8	180.2
57.5°	322.1	291.5	223.2	168.3	158.6	143.6	135.0	128.0	126.9	125.3	124.8
60°	225.9	203.8	157.0	119.9	108.6	99.5	90.9	83.9	80.7	80.1	78.5
62.5°	146.3	132.8	103.3	80.1	71.5	65.1	56.5	51.6	49.5	47.3	47.9
65°	90.9	80.7	64.5	51.6	46.8	41.9	35.5	31.2	29.0	26.9	27.4
67.5°	56.5	50.5	40.9	33.3	30.1	26.4	21.5	18.3	16.7	15.1	14.0
70°	38.2	32.8	28.0	23.7	21.5	18.8	15.6	12.9	11.8	10.8	9.7
72.5°	26.9	24.2	20.4	17.7	16.1	14.0	11.8	10.2	9.1	8.1	7.0
75°	19.4	17.2	15.1	12.9	11.8	10.8	9.1	8.1	7.0	5.9	4.8
77.5°	14.0	12.4	10.8	9.7	9.1	7.5	6.5	5.9	5.4	4.3	3.2
80°	9.7	8.6	7.0	6.5	6.5	5.4	4.8	4.3	3.8	2.7	2.2
82.5°	6.5	5.9	5.4	4.8	4.3	3.8	3.8	2.7	2.2	1.6	1.1
85°	4.8	4.3	3.8	3.2	3.2	2.7	2.2	1.6	1.6	1.1	0.5
87.5°	2.7	2.7	2.2	1.6	1.6	1.1	1.1	0.5	0.5	0.5	0.5
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7
2.5°	2065.0	2066.6	2075.8	2068.8	2086.5	2099.4	2093.0	2107.5	2102.7	2101.6	2118.2
5°	2079.0	2082.8	2095.1	2088.7	2108.0	2122.0	2115.6	2131.7	2126.9	2125.8	2143.0
7.5°	2105.9	2109.6	2120.4	2115.0	2135.5	2147.8	2139.8	2157.5	2151.1	2150.5	2167.2
10°	2139.8	2145.1	2154.3	2148.9	2167.7	2178.5	2170.4	2187.6	2181.7	2179.0	2197.3
12.5°	2165.0	2168.8	2177.9	2173.6	2191.9	2200.0	2193.0	2209.7	2202.1	2200.0	2216.1
15°	2159.1	2162.9	2170.4	2166.6	2183.9	2191.4	2182.2	2200.5	2193.0	2188.7	2203.2
17.5°	2121.5	2123.6	2129.0	2125.2	2143.5	2148.4	2138.1	2156.4	2149.4	2141.9	2155.9
20°	2066.1	2065.0	2068.2	2066.6	2081.7	2084.4	2077.9	2091.4	2083.3	2079.0	2087.1
22.5°	1997.3	1996.2	1998.3	1994.0	2009.1	2010.7	2001.0	2017.1	2009.1	2001.0	2014.5
25°	1920.9	1915.0	1913.9	1915.5	1925.7	1927.3	1917.1	1929.0	1918.7	1912.3	1925.2
27.5°	1826.8	1819.3	1817.6	1819.3	1829.5	1821.9	1813.3	1821.9	1811.7	1805.8	1813.9
30°	1710.6	1699.9	1695.0	1691.8	1702.6	1699.9	1680.0	1689.7	1673.5	1664.9	1670.8
32.5°	1554.1	1548.2	1535.3	1527.8	1538.0	1517.6	1505.2	1505.2	1498.7	1484.2	1487.5
35°	1336.9	1327.7	1315.9	1309.5	1311.1	1283.6	1263.2	1267.5	1246.0	1242.2	1243.8
37.5°	1062.1	1047.0	1042.7	1029.3	1032.5	1008.3	980.3	980.9	969.6	957.8	954.0
40°	798.0	795.4	791.0	779.8	784.1	757.7	747.0	747.5	740.0	731.4	735.7
42.5°	616.8	608.2	605.5	601.8	602.8	598.5	584.5	586.2	579.7	577.6	575.4
45°	501.2	492.1	485.6	488.8	488.8	484.0	478.6	481.8	478.6	474.3	476.5
47.5°	413.0	404.4	401.2	400.6	404.4	401.2	395.8	396.9	396.3	394.7	393.6
50°	329.6	327.5	324.8	323.2	324.8	323.7	318.9	321.6	323.2	317.8	319.4
52.5°	251.1	251.1	250.6	246.8	250.1	246.8	246.3	247.4	245.8	243.6	243.1
55°	183.9	182.3	179.6	179.1	180.2	179.1	178.0	178.5	179.6	174.2	174.2
57.5°	125.8	124.8	123.1	123.1	125.3	122.6	121.0	123.1	121.0	118.8	118.8
60°	80.7	80.1	78.5	78.5	78.5	78.0	76.4	76.9	78.0	74.7	75.3
62.5°	48.4	46.8	46.2	45.7	46.2	45.7	45.7	45.2	44.6	44.6	43.0
65°	26.4	25.3	24.2	24.7	24.7	24.2	24.2	24.2	23.1	22.6	22.0
67.5°	13.4	12.4	12.4	11.8	11.8	11.8	11.8	11.3	11.3	11.3	10.8
70°	8.6	8.1	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	6.5
72.5°	5.9	5.4	4.8	4.8	4.8	4.3	4.3	4.3	4.3	3.8	3.8
75°	4.3	3.8	3.2	3.2	3.2	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	2.7	2.2	2.2	2.2	2.2	1.6	1.6	1.6	1.6	1.6	1.1
80°	1.6	1.6	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5
82.5°	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	0.5	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: P245403

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7
2.5°	2112.3	2108.0	2110.7	2130.6	2122.0	2119.3	2096.7	2116.6
5°	2137.6	2134.4	2134.4	2157.0	2146.7	2144.6	2122.5	2139.8
7.5°	2161.3	2158.0	2158.6	2181.7	2173.6	2170.4	2148.4	2165.6
10°	2191.9	2189.8	2190.3	2212.4	2203.8	2200.5	2177.9	2195.7
12.5°	2210.2	2207.0	2207.0	2230.6	2221.0	2216.1	2194.6	2211.8
15°	2196.2	2191.4	2191.4	2215.0	2204.3	2197.3	2178.5	2194.6
17.5°	2148.4	2143.5	2143.5	2164.0	2155.9	2145.7	2126.3	2141.4
20°	2081.7	2075.8	2074.2	2097.8	2086.5	2077.4	2060.2	2074.7
22.5°	2006.4	2003.7	1998.9	2022.5	2012.3	2002.6	1984.3	1995.6
25°	1916.0	1911.7	1906.9	1930.0	1919.8	1910.1	1895.6	1904.8
27.5°	1803.7	1804.2	1801.5	1819.8	1809.6	1804.2	1786.4	1801.5
30°	1667.6	1661.7	1659.5	1681.0	1671.4	1664.4	1642.3	1656.8
32.5°	1490.1	1481.5	1470.2	1494.4	1477.8	1471.9	1453.0	1474.0
35°	1232.0	1229.3	1219.1	1239.5	1230.4	1219.6	1207.8	1225.6
37.5°	952.4	954.5	953.5	958.8	953.5	946.5	933.6	927.1
40°	727.1	721.7	717.4	727.1	715.8	715.8	708.2	716.3
42.5°	570.0	567.9	573.3	575.4	569.0	567.9	566.8	566.3
45°	470.5	470.5	471.6	473.8	471.6	470.5	467.3	465.2
47.5°	387.7	389.9	387.7	394.7	391.0	389.9	383.4	386.1
50°	314.1	311.4	314.1	316.2	316.7	313.5	310.3	311.9
52.5°	243.6	239.3	238.2	241.5	239.3	239.3	237.2	236.6
55°	171.5	173.2	170.5	173.2	172.1	170.5	168.9	171.0
57.5°	116.2	116.7	115.6	117.2	114.5	115.1	114.5	114.0
60°	75.3	73.1	73.1	74.7	72.1	72.1	71.5	71.5
62.5°	43.0	42.5	42.5	41.9	41.4	41.4	41.4	40.3
65°	22.0	21.5	21.0	21.0	21.0	21.0	20.4	20.4
67.5°	10.8	10.2	10.2	10.8	10.2	10.2	10.2	10.2
70°	6.5	6.5	5.9	6.5	5.9	5.9	5.9	5.9
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)