

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: P244107

Luminaire Tested: **LD8B30D010 ER8B30840 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244107  
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 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3249.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 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

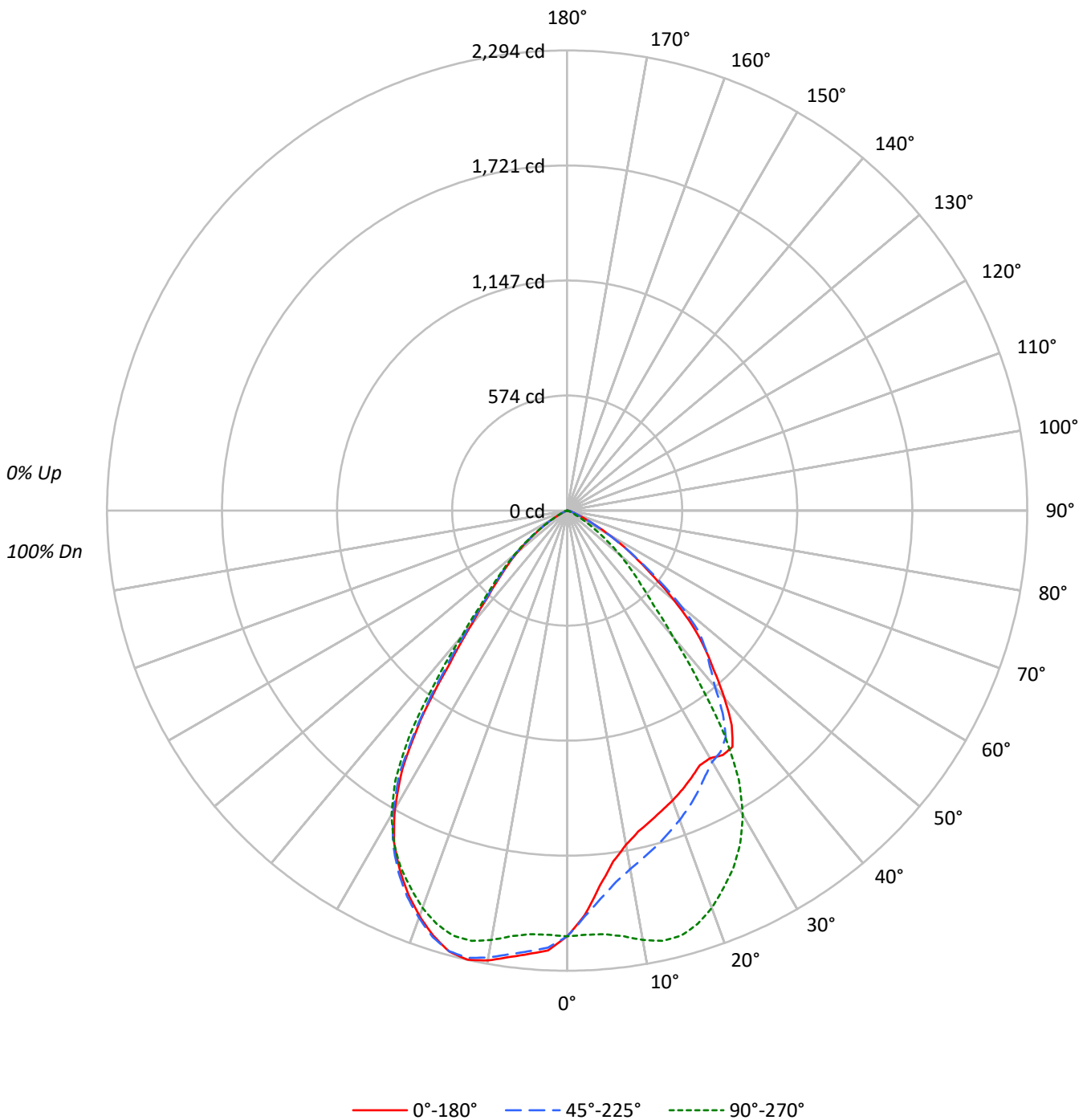
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	65450	65450	65450
5°	58070	65613	68687
10°	52945	68050	71297
15°	51168	70038	72656
20°	50434	69175	70602
25°	49941	66789	67208
30°	50754	62330	61179
35°	54098	51580	47842
40°	49029	33020	29901
45°	42318	22594	21037
50°	33389	16479	15519
55°	23177	10134	9532
60°	14752	5125	4576
65°	7362	2036	1547
70°	4075	1010	550
75°	2919	727	262
80°	2380	497	107
85°	2547	389	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.8	6.1
10°-20°	571.4	17.6
20°-30°	829.3	25.5
30°-40°	816.8	25.1
40°-50°	512.0	15.8
50°-60°	247.1	7.6
60°-70°	59.8	1.8
70°-80°	12.1	0.4
80°-90°	2.8	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°	1598.5	49.2
0°-40°	2415.3	74.3
0°-60°	3174.4	97.7
0°-90°	3249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3249.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2122	2122	2122	2122	2122	
5°	1876	1940	2120	2206	2219	174
15°	1603	1729	2194	2274	2276	453
25°	1468	1544	1963	1990	1975	679
35°	1437	1379	1370	1292	1271	870
45°	970	977	518	496	482	742
55°	431	445	188	186	177	397
65°	101	100	28	24	21	115
75°	24	21	6	3	2	28
85°	7	6	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°	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5
2.5°	2017.7	2004.8	1980.9	2009.9	2009.9	1993.7	2026.0	2006.5	2022.1	2046.7	2024.9
5°	1876.0	1865.4	1845.3	1876.0	1879.9	1864.9	1903.9	1889.4	1912.3	1942.4	1939.6
7.5°	1763.9	1750.5	1732.1	1763.9	1770.1	1760.0	1797.4	1790.7	1820.8	1859.8	1866.5
10°	1690.9	1676.9	1660.8	1689.8	1694.2	1687.5	1725.4	1721.5	1751.1	1796.3	1814.1
12.5°	1639.0	1627.3	1609.4	1640.1	1645.1	1635.7	1671.3	1669.7	1700.3	1747.7	1770.1
15°	1602.8	1588.8	1572.6	1598.9	1605.5	1594.9	1629.0	1625.6	1656.8	1703.7	1728.8
17.5°	1568.7	1555.9	1539.2	1563.7	1570.4	1559.3	1592.7	1587.1	1613.9	1658.5	1684.2
20°	1536.9	1523.0	1507.9	1533.0	1536.9	1524.1	1557.6	1550.3	1574.3	1615.6	1640.7
22.5°	1504.0	1489.5	1473.9	1498.5	1502.4	1489.5	1520.2	1511.9	1534.2	1571.5	1594.4
25°	1467.8	1454.4	1438.8	1461.7	1465.0	1451.1	1483.4	1472.8	1492.3	1525.2	1544.2
27.5°	1431.5	1418.7	1401.4	1424.9	1426.5	1413.1	1442.7	1428.2	1444.4	1474.5	1490.7
30°	1425.4	1410.9	1393.1	1412.0	1412.6	1395.3	1423.2	1405.9	1414.8	1437.1	1446.6
32.5°	1444.9	1430.4	1412.0	1427.6	1426.0	1407.0	1433.8	1412.6	1415.4	1427.1	1424.9
35°	1437.1	1419.8	1398.1	1414.8	1414.8	1392.0	1418.7	1393.6	1390.8	1392.5	1378.6
37.5°	1348.5	1335.1	1314.4	1330.6	1328.9	1311.6	1332.3	1311.6	1302.2	1298.3	1273.2
40°	1218.0	1201.8	1186.2	1203.5	1205.1	1186.7	1213.5	1190.1	1187.3	1176.1	1146.6
42.5°	1085.8	1080.2	1065.2	1079.7	1087.5	1071.8	1094.2	1083.0	1084.7	1081.9	1054.0
45°	970.4	960.9	949.7	966.4	971.5	963.7	986.0	979.3	986.0	999.9	977.0
47.5°	846.0	836.5	824.2	842.1	851.0	836.5	855.5	853.2	863.3	887.3	885.0
50°	696.0	689.3	687.1	689.3	694.9	688.2	701.6	702.1	708.8	741.7	743.9
52.5°	551.0	549.3	541.5	548.8	548.8	538.2	551.5	545.4	552.1	574.4	588.9
55°	431.1	429.4	424.4	431.1	423.8	419.9	423.8	417.7	412.7	430.0	445.0
57.5°	335.7	330.1	324.0	326.8	326.2	317.9	322.3	315.1	311.2	317.3	330.7
60°	239.2	237.6	232.0	234.8	237.0	230.9	235.3	232.0	225.3	230.3	230.9
62.5°	158.9	160.1	156.7	157.3	155.6	154.5	157.3	158.9	157.3	155.0	155.6
65°	100.9	100.4	99.8	100.4	101.5	99.3	100.9	102.1	100.4	100.4	99.8
67.5°	66.9	65.2	63.6	64.7	65.8	64.1	65.8	65.2	65.8	65.2	63.6
70°	45.2	44.6	44.1	44.6	44.6	43.5	44.6	44.1	44.6	44.1	42.4
72.5°	32.9	32.9	32.3	32.9	32.9	31.8	32.3	31.2	31.8	31.2	30.1
75°	24.5	24.5	24.0	24.5	24.0	23.4	24.0	23.4	22.3	22.3	21.2
77.5°	17.8	17.8	17.8	17.8	17.8	17.3	17.3	16.7	16.2	15.6	15.6
80°	13.4	12.8	12.8	12.8	12.8	12.3	12.8	12.3	11.7	11.2	10.6
82.5°	9.5	10.0	9.5	9.5	9.5	8.9	9.5	8.9	8.9	8.4	7.2
85°	7.2	7.2	7.2	7.2	7.2	6.7	6.7	6.7	6.1	6.1	5.6
87.5°	3.9	3.9	3.9	4.5	3.9	3.9	3.9	3.3	3.3	2.8	2.8
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°	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5
2.5°	2053.9	2056.7	2050.6	2060.0	2096.9	2067.3	2079.6	2083.5	2111.4	2116.4	2113.0
5°	1975.8	1988.1	1995.9	2017.1	2057.8	2036.6	2058.4	2072.3	2108.0	2119.7	2122.5
7.5°	1914.5	1940.1	1959.1	1993.7	2041.6	2025.5	2058.4	2081.2	2124.7	2139.8	2147.0
10°	1868.8	1907.8	1940.7	1988.1	2042.2	2031.6	2074.5	2106.9	2155.4	2173.3	2182.2
12.5°	1834.2	1881.6	1925.6	1985.9	2044.4	2039.4	2091.3	2128.1	2179.4	2197.2	2207.8
15°	1796.3	1850.9	1902.2	1969.7	2032.7	2031.6	2087.4	2126.4	2178.8	2193.9	2203.9
17.5°	1751.1	1809.7	1866.0	1939.0	2001.5	2002.6	2058.9	2097.4	2148.7	2161.0	2167.7
20°	1705.4	1763.4	1819.7	1895.0	1956.3	1958.0	2013.2	2048.9	2098.0	2108.0	2109.7
22.5°	1656.8	1710.9	1767.3	1842.0	1901.1	1902.2	1956.9	1990.3	2032.2	2037.2	2041.6
25°	1601.6	1654.6	1707.6	1781.8	1838.1	1841.4	1891.1	1920.6	1959.1	1963.0	1964.7
27.5°	1544.2	1587.7	1638.4	1702.0	1758.9	1756.7	1803.5	1837.0	1871.6	1869.3	1868.8
30°	1486.2	1522.4	1553.7	1615.0	1656.8	1658.5	1702.6	1718.8	1755.0	1750.5	1750.0
32.5°	1445.5	1455.0	1463.3	1494.6	1534.2	1520.2	1550.3	1570.4	1595.5	1593.8	1594.4
35°	1370.8	1353.5	1328.4	1332.8	1356.8	1335.1	1351.2	1350.7	1376.3	1370.2	1377.5
37.5°	1243.1	1194.0	1138.2	1106.4	1110.9	1083.6	1078.0	1091.4	1100.3	1083.0	1089.1
40°	1107.0	1034.5	947.5	875.0	871.1	837.1	830.9	817.5	834.8	820.3	824.8
42.5°	1006.6	910.7	796.4	708.2	689.3	660.8	644.1	641.9	646.9	636.9	634.1
45°	929.6	827.6	696.5	595.6	574.4	543.7	527.0	520.9	521.4	518.1	515.3
47.5°	839.3	736.7	604.0	500.8	476.8	447.8	431.1	427.2	429.4	424.9	421.6
50°	714.4	622.4	501.3	407.1	385.9	364.7	351.3	347.4	346.9	343.5	341.3
52.5°	580.0	503.6	398.7	320.1	301.1	280.5	271.0	266.0	266.6	263.2	259.9
55°	448.9	401.5	309.0	242.0	224.7	208.6	199.6	193.5	191.8	188.5	186.8
57.5°	334.0	302.3	231.4	174.6	164.5	148.9	140.0	132.7	131.6	129.9	129.4
60°	234.2	211.4	162.8	124.4	112.7	103.2	94.2	87.0	83.7	83.1	81.4
62.5°	151.7	137.7	107.1	83.1	74.2	67.5	58.6	53.5	51.3	49.1	49.6
65°	94.2	83.7	66.9	53.5	48.5	43.5	36.8	32.3	30.1	27.9	28.4
67.5°	58.6	52.4	42.4	34.6	31.2	27.3	22.3	19.0	17.3	15.6	14.5
70°	39.6	34.0	29.0	24.5	22.3	19.5	16.2	13.4	12.3	11.2	10.0
72.5°	27.9	25.1	21.2	18.4	16.7	14.5	12.3	10.6	9.5	8.4	7.2
75°	20.1	17.8	15.6	13.4	12.3	11.2	9.5	8.4	7.2	6.1	5.0
77.5°	14.5	12.8	11.2	10.0	9.5	7.8	6.7	6.1	5.6	4.5	3.3
80°	10.0	8.9	7.2	6.7	6.7	5.6	5.0	4.5	3.9	2.8	2.2
82.5°	6.7	6.1	5.6	5.0	4.5	3.9	3.9	2.8	2.2	1.7	1.1
85°	5.0	4.5	3.9	3.3	3.3	2.8	2.2	1.7	1.7	1.1	0.6
87.5°	2.8	2.8	2.2	1.7	1.7	1.1	1.1	0.6	0.6	0.6	0.6
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°	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5
2.5°	2141.5	2143.1	2152.6	2145.4	2163.8	2177.2	2170.5	2185.5	2180.5	2179.4	2196.7
5°	2156.0	2159.9	2172.7	2166.0	2186.1	2200.6	2193.9	2210.6	2205.6	2204.5	2222.3
7.5°	2183.8	2187.8	2198.9	2193.3	2214.5	2227.3	2219.0	2237.4	2230.7	2230.1	2247.4
10°	2219.0	2224.6	2234.0	2228.5	2248.0	2259.1	2250.8	2268.6	2262.5	2259.7	2278.7
12.5°	2245.2	2249.1	2258.6	2254.1	2273.1	2281.4	2274.2	2291.5	2283.7	2281.4	2298.2
15°	2239.1	2243.0	2250.8	2246.9	2264.7	2272.5	2263.0	2282.0	2274.2	2269.7	2284.8
17.5°	2200.0	2202.3	2207.8	2203.9	2222.9	2227.9	2217.3	2236.3	2229.0	2221.2	2235.7
20°	2142.6	2141.5	2144.8	2143.1	2158.8	2161.5	2154.9	2168.8	2160.4	2156.0	2164.3
22.5°	2071.2	2070.1	2072.3	2067.9	2083.5	2085.1	2075.1	2091.8	2083.5	2075.1	2089.0
25°	1992.0	1985.9	1984.8	1986.4	1997.0	1998.7	1988.1	2000.4	1989.8	1983.1	1996.5
27.5°	1894.4	1886.6	1884.9	1886.6	1897.2	1889.4	1880.5	1889.4	1878.8	1872.7	1881.0
30°	1774.0	1762.8	1757.8	1754.4	1765.6	1762.8	1742.2	1752.2	1735.5	1726.6	1732.7
32.5°	1611.7	1605.5	1592.2	1584.4	1594.9	1573.8	1560.9	1560.9	1554.2	1539.2	1542.5
35°	1386.4	1376.9	1364.6	1357.9	1359.6	1331.2	1310.0	1314.4	1292.1	1288.2	1289.9
37.5°	1101.4	1085.8	1081.3	1067.4	1070.7	1045.6	1016.6	1017.2	1005.5	993.2	989.3
40°	827.6	824.8	820.3	808.6	813.1	785.8	774.6	775.2	767.4	758.4	762.9
42.5°	639.7	630.7	627.9	624.0	625.2	620.7	606.2	607.9	601.2	598.9	596.7
45°	519.8	510.3	503.6	506.9	506.9	501.9	496.3	499.7	496.3	491.9	494.1
47.5°	428.3	419.4	416.0	415.5	419.4	416.0	410.4	411.6	411.0	409.3	408.2
50°	341.9	339.6	336.8	335.2	336.8	335.7	330.7	333.5	335.2	329.6	331.3
52.5°	260.4	260.4	259.9	256.0	259.3	256.0	255.4	256.5	254.9	252.6	252.1
55°	190.7	189.1	186.3	185.7	186.8	185.7	184.6	185.1	186.3	180.7	180.7
57.5°	130.5	129.4	127.7	127.7	129.9	127.1	125.5	127.7	125.5	123.2	123.2
60°	83.7	83.1	81.4	81.4	81.4	80.9	79.2	79.7	80.9	77.5	78.1
62.5°	50.2	48.5	48.0	47.4	48.0	47.4	47.4	46.8	46.3	46.3	44.6
65°	27.3	26.2	25.1	25.7	25.7	25.1	25.1	25.1	24.0	23.4	22.9
67.5°	13.9	12.8	12.8	12.3	12.3	12.3	12.3	11.7	11.7	11.7	11.2
70°	8.9	8.4	7.8	7.8	7.8	7.2	7.2	7.2	7.2	7.2	6.7
72.5°	6.1	5.6	5.0	5.0	5.0	4.5	4.5	4.5	4.5	3.9	3.9
75°	4.5	3.9	3.3	3.3	3.3	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	2.2	2.2	2.2	2.2	1.7	1.7	1.7	1.7	1.7	1.1
80°	1.7	1.7	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6
82.5°	1.1	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	0.6	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: P244107

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBSW01

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5	2122.5
2.5°	2190.5	2186.1	2188.9	2209.5	2200.6	2197.8	2174.4	2195.0
5°	2216.8	2213.4	2213.4	2236.8	2226.2	2224.0	2201.1	2219.0
7.5°	2241.3	2237.9	2238.5	2262.5	2254.1	2250.8	2227.9	2245.8
10°	2273.1	2270.8	2271.4	2294.3	2285.3	2282.0	2258.6	2277.0
12.5°	2292.0	2288.7	2288.7	2313.2	2303.2	2298.2	2275.9	2293.7
15°	2277.5	2272.5	2272.5	2297.1	2285.9	2278.7	2259.1	2275.9
17.5°	2227.9	2222.9	2222.9	2244.1	2235.7	2225.1	2205.0	2220.7
20°	2158.8	2152.6	2150.9	2175.5	2163.8	2154.3	2136.4	2151.5
22.5°	2080.7	2077.9	2072.9	2097.4	2086.8	2076.8	2057.8	2069.5
25°	1987.0	1982.5	1977.5	2001.5	1990.9	1980.9	1965.8	1975.3
27.5°	1870.4	1871.0	1868.2	1887.2	1876.6	1871.0	1852.6	1868.2
30°	1729.3	1723.2	1721.0	1743.3	1733.2	1726.0	1703.1	1718.2
32.5°	1545.3	1536.4	1524.7	1549.8	1532.5	1526.4	1506.8	1528.6
35°	1277.6	1274.8	1264.2	1285.4	1276.0	1264.8	1252.5	1270.9
37.5°	987.6	989.9	988.8	994.3	988.8	981.5	968.1	961.4
40°	754.0	748.4	743.9	754.0	742.3	742.3	734.5	742.8
42.5°	591.1	588.9	594.5	596.7	590.0	588.9	587.8	587.2
45°	488.0	488.0	489.1	491.3	489.1	488.0	484.6	482.4
47.5°	402.1	404.3	402.1	409.3	405.4	404.3	397.6	400.4
50°	325.7	322.9	325.7	327.9	328.5	325.1	321.8	323.5
52.5°	252.6	248.2	247.0	250.4	248.2	248.2	245.9	245.4
55°	177.9	179.6	176.8	179.6	178.5	176.8	175.1	177.3
57.5°	120.5	121.0	119.9	121.6	118.8	119.3	118.8	118.2
60°	78.1	75.8	75.8	77.5	74.7	74.7	74.2	74.2
62.5°	44.6	44.1	44.1	43.5	42.9	42.9	42.9	41.8
65°	22.9	22.3	21.7	21.7	21.7	21.7	21.2	21.2
67.5°	11.2	10.6	10.6	11.2	10.6	10.6	10.6	10.6
70°	6.7	6.7	6.1	6.7	6.1	6.1	6.1	6.1
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)