

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: P245824

Luminaire Tested: **LD8B40D010 ER8B40830 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245824  
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 ER8B40830 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3916.0 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

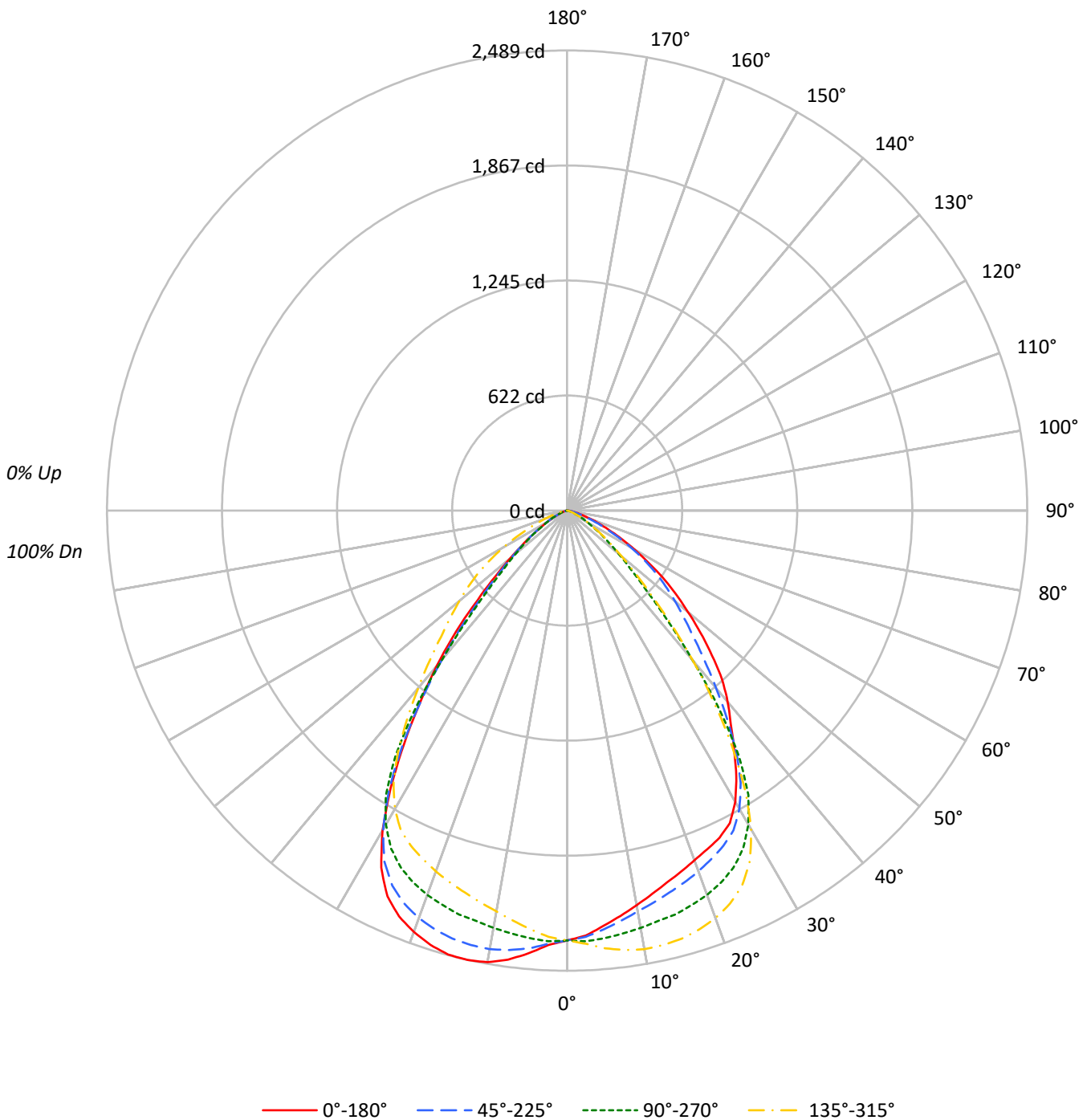
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245824

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P245824

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0GPH

**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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	90°	180°	270°
0°	71688	71688	71688	71688
5°	69783	71857	74423	71857
10°	67853	71764	77663	71764
15°	66498	72190	79363	72190
20°	66044	72601	79567	72601
25°	66391	72454	78289	72454
30°	64751	69803	71057	69803
35°	59226	60893	57773	60893
40°	54375	42359	44235	42359
45°	48315	25843	29898	25843
50°	40897	17261	19170	17261
55°	33870	11779	12451	11779
60°	25835	7839	7913	7839
65°	18307	4889	4473	4889
70°	13199	3273	2966	3273
75°	8388	1620	1358	1620
80°	5842	1208	1012	1208
85°	5236	0	389	0



TEST NUMBER: P245824

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.3	5.7
10°-20°	640.8	16.4
20°-30°	970.3	24.8
30°-40°	972.5	24.8
40°-50°	610.7	15.6
50°-60°	325.4	8.3
60°-70°	133.8	3.4
70°-80°	35.4	0.9
80°-90°	6.0	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°	1832.3	46.8
0°-40°	2804.8	71.6
0°-60°	3740.8	95.5
0°-90°	3916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3916.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2325	2325	2325	2325	2325	
5°	2254	2321	2404	2321	2254	213
15°	2083	2261	2486	2261	2083	589
25°	1951	2130	2301	2130	1951	895
35°	1573	1618	1535	1618	1573	986
45°	1108	593	686	593	1108	852
55°	630	219	232	219	630	562
65°	251	67	61	67	251	260
75°	70	14	11	14	70	80
85°	15	0	1	0	15	16
90°	0	0	0	0	0	



TEST NUMBER: P245824

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0GPH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8
2.5°	2301.0	2298.7	2297.6	2299.9	2301.0	2305.5	2304.4	2306.6	2306.6	2307.8	2310.0
5°	2254.4	2253.3	2254.4	2254.4	2259.0	2263.5	2262.4	2265.8	2268.0	2273.7	2276.0
7.5°	2211.3	2211.3	2210.1	2214.7	2217.0	2223.8	2222.6	2228.3	2231.7	2237.4	2245.3
10°	2167.0	2167.0	2168.1	2171.6	2172.7	2182.9	2182.9	2190.8	2195.4	2201.1	2211.3
12.5°	2123.9	2123.9	2130.7	2128.4	2133.0	2140.9	2144.3	2152.3	2159.1	2170.4	2180.7
15°	2083.0	2083.0	2085.3	2091.0	2094.4	2104.6	2110.2	2119.4	2127.3	2138.7	2153.4
17.5°	2047.8	2046.7	2047.8	2054.6	2061.5	2070.5	2075.1	2086.4	2094.4	2109.1	2122.8
20°	2012.6	2014.9	2014.9	2020.6	2025.1	2036.5	2041.0	2053.5	2062.6	2076.2	2092.1
22.5°	1982.0	1980.9	1980.9	1988.8	1992.2	2002.4	2006.9	2018.3	2028.5	2039.9	2054.6
25°	1951.3	1949.0	1953.6	1954.8	1957.0	1968.3	1971.8	1979.7	1989.9	2000.2	2014.9
27.5°	1905.9	1903.7	1904.8	1909.3	1912.7	1921.8	1924.1	1932.0	1940.0	1949.0	1961.6
30°	1818.5	1816.3	1815.1	1823.1	1826.5	1833.3	1836.7	1850.3	1852.6	1862.8	1871.9
32.5°	1702.7	1701.6	1703.9	1710.7	1714.1	1723.2	1727.7	1735.7	1741.3	1747.0	1756.1
35°	1573.3	1571.1	1573.3	1580.2	1580.2	1588.1	1591.5	1594.9	1593.8	1594.9	1592.6
37.5°	1453.0	1451.9	1453.0	1456.4	1453.0	1456.4	1453.0	1446.2	1433.7	1420.1	1406.4
40°	1350.8	1352.0	1345.2	1349.7	1337.2	1335.0	1322.5	1305.4	1280.5	1253.2	1214.6
42.5°	1241.9	1238.5	1233.9	1236.2	1226.0	1218.0	1197.6	1176.0	1144.2	1098.9	1052.3
45°	1107.9	1106.8	1104.5	1103.4	1096.6	1088.6	1071.6	1046.6	1011.4	964.9	909.3
47.5°	977.4	974.0	974.0	975.1	967.1	966.0	952.4	930.8	900.2	854.8	796.9
50°	852.5	851.4	853.6	858.2	852.5	850.2	841.2	826.4	799.2	760.6	706.0
52.5°	740.1	739.0	741.3	746.9	744.6	746.9	737.9	726.5	708.3	670.9	623.2
55°	630.0	630.0	630.0	636.8	636.8	636.8	632.3	625.5	608.4	581.2	537.0
57.5°	515.4	516.5	523.3	524.4	523.3	525.6	524.4	517.6	506.3	487.0	452.9
60°	418.9	418.9	422.3	425.7	424.5	425.7	425.7	422.3	410.9	395.1	367.8
62.5°	331.5	334.9	332.6	334.9	339.4	334.9	332.6	330.3	322.4	312.2	289.5
65°	250.9	253.2	253.2	254.3	252.0	253.2	248.6	245.2	240.7	229.3	214.6
67.5°	190.7	190.7	190.7	190.7	189.6	188.4	187.3	183.9	176.0	171.4	155.5
70°	146.4	139.6	139.6	139.6	139.6	140.8	137.4	132.8	130.5	122.6	111.3
72.5°	97.6	99.9	97.6	97.6	95.4	96.5	92.0	89.7	87.4	82.9	76.1
75°	70.4	64.7	67.0	68.1	64.7	67.0	62.4	57.9	57.9	54.5	51.1
77.5°	45.4	44.3	45.4	46.5	45.4	44.3	42.0	39.7	39.7	38.6	35.2
80°	32.9	31.8	31.8	31.8	30.7	31.8	29.5	29.5	27.2	26.1	23.8
82.5°	21.6	21.6	20.4	21.6	20.4	21.6	18.2	18.2	18.2	17.0	14.8
85°	14.8	12.5	12.5	13.6	11.4	13.6	12.5	11.4	10.2	10.2	9.1
87.5°	6.8	7.9	6.8	7.9	6.8	6.8	7.9	6.8	6.8	4.5	4.5
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: P245824

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8
2.5°	2313.5	2314.6	2314.6	2319.2	2321.4	2322.5	2322.5	2331.6	2328.2	2330.5	2332.7
5°	2280.6	2287.3	2289.6	2289.6	2302.1	2306.6	2311.2	2321.4	2322.5	2329.3	2337.3
7.5°	2248.7	2256.7	2261.3	2271.4	2279.4	2287.3	2301.0	2307.8	2314.6	2323.7	2333.9
10°	2218.1	2227.2	2236.3	2244.2	2256.7	2266.9	2276.0	2291.9	2299.9	2312.3	2325.9
12.5°	2188.6	2201.1	2209.0	2222.6	2236.3	2245.3	2259.0	2273.7	2286.2	2298.7	2314.6
15°	2162.5	2177.3	2186.3	2201.1	2215.8	2228.3	2243.1	2261.3	2270.3	2285.1	2299.9
17.5°	2134.1	2150.0	2161.4	2175.0	2193.1	2206.7	2219.3	2237.4	2248.7	2264.6	2281.7
20°	2104.6	2120.5	2134.1	2147.7	2165.9	2179.5	2194.3	2212.4	2224.9	2240.8	2254.4
22.5°	2069.4	2084.2	2098.9	2114.8	2133.0	2144.3	2161.4	2177.3	2190.8	2205.6	2219.3
25°	2024.0	2042.2	2053.5	2068.2	2083.0	2095.5	2113.7	2129.5	2140.9	2154.5	2167.0
27.5°	1970.6	1984.3	1993.3	2005.8	2020.6	2031.9	2045.5	2061.5	2072.8	2085.3	2094.4
30°	1879.8	1892.3	1900.3	1909.3	1924.1	1934.3	1945.7	1960.4	1968.3	1977.5	1985.4
32.5°	1760.6	1770.8	1775.4	1782.2	1792.4	1802.6	1811.7	1824.2	1827.6	1833.3	1833.3
35°	1588.1	1590.3	1589.2	1591.5	1596.0	1601.7	1609.6	1617.6	1622.1	1622.1	1618.8
37.5°	1386.0	1372.4	1357.7	1346.3	1342.9	1340.6	1345.2	1348.6	1353.1	1355.4	1349.7
40°	1176.0	1145.4	1112.5	1082.9	1062.5	1053.4	1050.0	1052.3	1052.3	1060.2	1060.2
42.5°	995.6	947.8	899.1	854.8	825.2	802.6	792.3	792.3	793.5	799.2	802.6
45°	845.7	785.5	728.8	680.0	639.1	609.6	596.0	592.6	591.4	593.7	601.6
47.5°	731.0	668.6	609.6	549.4	506.3	476.8	464.3	459.7	455.2	459.7	460.9
50°	641.4	576.7	514.2	454.1	408.6	382.5	366.6	359.8	358.7	358.7	361.0
52.5°	559.6	499.5	437.1	375.8	328.1	303.1	288.3	284.9	280.4	284.9	284.9
55°	482.4	422.3	361.0	303.1	263.3	237.3	223.6	219.1	216.8	220.2	220.2
57.5°	398.5	347.3	290.6	238.4	198.7	180.5	170.3	164.6	163.4	165.7	163.4
60°	326.9	283.8	235.0	187.3	156.7	137.4	129.4	127.1	124.8	127.1	127.1
62.5°	258.8	222.5	182.7	146.4	120.3	106.7	97.6	97.6	96.5	96.5	97.6
65°	191.8	163.4	135.1	104.4	84.0	73.8	67.0	67.0	65.8	67.0	65.8
67.5°	139.6	120.3	97.6	76.1	60.2	54.5	49.9	46.5	48.8	46.5	45.4
70°	102.2	86.3	70.4	57.9	46.5	40.9	37.5	36.3	34.1	34.1	34.1
72.5°	68.1	57.9	47.7	37.5	30.7	25.0	23.8	21.6	19.3	20.4	22.7
75°	45.4	38.6	34.1	27.2	20.4	20.4	13.6	13.6	11.4	13.6	10.2
77.5°	31.8	26.1	20.4	17.0	13.6	12.5	9.1	9.1	7.9	7.9	7.9
80°	22.7	19.3	14.8	12.5	9.1	9.1	7.9	6.8	5.7	5.7	6.8
82.5°	13.6	10.2	10.2	9.1	5.7	4.5	3.4	4.5	2.3	2.3	2.3
85°	7.9	6.8	5.7	3.4	2.3	2.3	1.1	0.0	1.1	1.1	0.0
87.5°	4.5	2.3	2.3	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.3
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: P245824

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8
2.5°	2338.4	2337.3	2339.6	2339.6	2346.4	2345.2	2348.6	2348.6	2346.4	2347.5	2352.0
5°	2346.4	2349.8	2356.6	2362.3	2372.5	2377.0	2382.7	2388.4	2389.5	2392.9	2396.3
7.5°	2346.4	2357.7	2365.7	2375.9	2389.5	2397.5	2409.9	2420.2	2424.7	2430.4	2437.2
10°	2341.8	2353.2	2367.9	2379.3	2396.3	2408.8	2421.3	2437.2	2444.0	2453.1	2462.2
12.5°	2332.7	2345.2	2361.1	2375.9	2395.2	2406.5	2422.4	2437.2	2447.4	2459.9	2470.1
15°	2319.2	2333.9	2348.6	2363.4	2383.8	2397.5	2412.2	2429.2	2439.5	2453.1	2462.2
17.5°	2297.6	2313.5	2327.1	2340.7	2360.0	2375.9	2389.5	2405.4	2415.6	2427.0	2439.5
20°	2271.4	2286.2	2301.0	2312.3	2331.6	2345.2	2360.0	2374.8	2382.7	2385.0	2404.3
22.5°	2238.6	2248.7	2260.1	2278.3	2289.6	2302.1	2315.7	2329.3	2337.3	2349.8	2356.6
25°	2184.0	2194.3	2206.7	2214.7	2228.3	2238.6	2252.1	2266.9	2271.4	2280.6	2287.3
27.5°	2108.0	2113.7	2119.4	2126.1	2134.1	2139.8	2147.7	2154.5	2159.1	2163.6	2168.1
30°	1987.6	1987.6	1987.6	1983.1	1986.5	1989.9	1991.1	1989.9	1989.9	1988.8	1988.8
32.5°	1828.7	1819.7	1809.4	1800.4	1797.0	1792.4	1790.1	1786.7	1781.1	1777.7	1778.8
35°	1614.2	1593.8	1581.3	1569.9	1560.9	1554.0	1550.6	1547.2	1546.1	1541.6	1537.0
37.5°	1346.3	1331.5	1322.5	1315.7	1307.7	1300.9	1302.0	1303.2	1306.5	1304.3	1305.4
40°	1062.5	1059.1	1062.5	1054.6	1052.3	1054.6	1060.2	1068.2	1072.7	1077.3	1085.2
42.5°	808.2	813.9	821.9	821.9	825.2	829.8	836.6	849.1	855.9	863.8	872.9
45°	608.4	615.3	625.5	628.9	631.1	636.8	644.8	655.0	659.5	666.3	674.3
47.5°	468.8	473.4	479.0	484.7	490.4	492.7	500.6	500.6	506.3	510.8	513.1
50°	365.5	370.1	374.6	378.0	380.3	383.7	385.9	389.4	390.5	392.8	393.9
52.5°	286.0	291.7	291.7	294.0	297.4	300.8	299.7	300.8	301.9	301.9	305.3
55°	223.6	223.6	227.0	227.0	229.3	228.2	229.3	229.3	229.3	229.3	230.4
57.5°	166.9	168.0	171.4	169.1	168.0	170.3	168.0	170.3	169.1	171.4	168.0
60°	128.3	128.3	129.4	129.4	130.5	130.5	130.5	129.4	129.4	128.3	128.3
62.5°	96.5	97.6	98.8	97.6	97.6	97.6	96.5	96.5	95.4	94.2	94.2
65°	64.7	63.6	65.8	63.6	64.7	64.7	63.6	64.7	61.3	62.4	61.3
67.5°	46.5	45.4	44.3	45.4	44.3	43.1	43.1	44.3	45.4	42.0	42.0
70°	30.7	31.8	30.7	31.8	32.9	32.9	31.8	30.7	31.8	29.5	30.7
72.5°	19.3	19.3	19.3	19.3	19.3	20.4	20.4	20.4	18.2	18.2	17.0
75°	9.1	12.5	10.2	9.1	12.5	12.5	11.4	11.4	10.2	10.2	10.2
77.5°	9.1	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.7	6.8	5.7
80°	4.5	4.5	4.5	3.4	4.5	4.5	5.7	4.5	4.5	3.4	5.7
82.5°	2.3	2.3	2.3	0.0	1.1	2.3	2.3	1.1	2.3	2.3	1.1
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: P245824

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8
2.5°	2350.9	2349.8	2350.9	2352.0	2350.9	2349.8	2350.9	2352.0	2347.5	2346.4	2348.6
5°	2400.9	2400.9	2403.1	2404.3	2403.1	2400.9	2400.9	2396.3	2392.9	2389.5	2388.4
7.5°	2444.0	2446.3	2448.5	2449.7	2448.5	2446.3	2444.0	2437.2	2430.4	2424.7	2420.2
10°	2470.1	2473.5	2478.1	2480.3	2478.1	2473.5	2470.1	2462.2	2453.1	2444.0	2437.2
12.5°	2481.5	2484.9	2490.5	2489.4	2490.5	2484.9	2481.5	2470.1	2459.9	2447.4	2437.2
15°	2473.5	2478.1	2483.7	2486.0	2483.7	2478.1	2473.5	2462.2	2453.1	2439.5	2429.2
17.5°	2448.5	2455.4	2458.8	2462.2	2458.8	2455.4	2448.5	2439.5	2427.0	2415.6	2405.4
20°	2414.5	2419.0	2423.6	2424.7	2423.6	2419.0	2414.5	2404.3	2385.0	2382.7	2374.8
22.5°	2365.7	2369.1	2379.3	2375.9	2379.3	2369.1	2365.7	2356.6	2349.8	2337.3	2329.3
25°	2295.3	2298.7	2299.9	2301.0	2299.9	2298.7	2295.3	2287.3	2280.6	2271.4	2266.9
27.5°	2173.8	2173.8	2176.1	2177.3	2176.1	2173.8	2173.8	2168.1	2163.6	2159.1	2154.5
30°	1989.9	1989.9	1989.9	1995.6	1989.9	1989.9	1989.9	1988.8	1988.8	1989.9	1989.9
32.5°	1777.7	1775.4	1773.1	1775.4	1773.1	1775.4	1777.7	1778.8	1777.7	1781.1	1786.7
35°	1537.0	1535.9	1539.3	1534.7	1539.3	1535.9	1537.0	1537.0	1541.6	1546.1	1547.2
37.5°	1306.5	1304.3	1308.8	1304.3	1308.8	1304.3	1306.5	1305.4	1304.3	1306.5	1303.2
40°	1087.5	1089.7	1089.7	1098.9	1089.7	1089.7	1087.5	1085.2	1077.3	1072.7	1068.2
42.5°	877.5	884.3	882.0	888.8	882.0	884.3	877.5	872.9	863.8	855.9	849.1
45°	678.8	683.4	683.4	685.6	683.4	683.4	678.8	674.3	666.3	659.5	655.0
47.5°	521.0	521.0	521.0	522.2	521.0	521.0	521.0	513.1	510.8	506.3	500.6
50°	396.2	397.3	398.5	399.6	398.5	397.3	396.2	393.9	392.8	390.5	389.4
52.5°	304.2	305.3	303.1	305.3	303.1	305.3	304.2	305.3	301.9	301.9	300.8
55°	230.4	229.3	230.4	231.6	230.4	229.3	230.4	230.4	229.3	229.3	229.3
57.5°	169.1	166.9	166.9	166.9	166.9	166.9	169.1	168.0	171.4	169.1	170.3
60°	126.0	127.1	127.1	128.3	127.1	127.1	126.0	128.3	128.3	129.4	129.4
62.5°	93.1	96.5	94.2	96.5	94.2	96.5	93.1	94.2	94.2	95.4	96.5
65°	60.2	60.2	60.2	61.3	60.2	60.2	60.2	61.3	62.4	61.3	64.7
67.5°	40.9	42.0	44.3	43.1	44.3	42.0	40.9	42.0	42.0	45.4	44.3
70°	32.9	29.5	29.5	32.9	29.5	29.5	32.9	30.7	29.5	31.8	30.7
72.5°	19.3	17.0	19.3	19.3	19.3	17.0	19.3	17.0	18.2	18.2	20.4
75°	10.2	9.1	7.9	11.4	7.9	9.1	10.2	10.2	10.2	10.2	11.4
77.5°	6.8	5.7	7.9	7.9	7.9	5.7	6.8	5.7	6.8	5.7	6.8
80°	3.4	4.5	3.4	5.7	3.4	4.5	3.4	5.7	3.4	4.5	4.5
82.5°	1.1	2.3	2.3	2.3	2.3	2.3	1.1	1.1	2.3	2.3	1.1
85°	0.0	2.3	1.1	1.1	1.1	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	1.1	0.0	0.0	1.1	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: P245824

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8
2.5°	2348.6	2345.2	2346.4	2339.6	2339.6	2337.3	2338.4	2332.7	2330.5	2328.2	2331.6
5°	2382.7	2377.0	2372.5	2362.3	2356.6	2349.8	2346.4	2337.3	2329.3	2322.5	2321.4
7.5°	2409.9	2397.5	2389.5	2375.9	2365.7	2357.7	2346.4	2333.9	2323.7	2314.6	2307.8
10°	2421.3	2408.8	2396.3	2379.3	2367.9	2353.2	2341.8	2325.9	2312.3	2299.9	2291.9
12.5°	2422.4	2406.5	2395.2	2375.9	2361.1	2345.2	2332.7	2314.6	2298.7	2286.2	2273.7
15°	2412.2	2397.5	2383.8	2363.4	2348.6	2333.9	2319.2	2299.9	2285.1	2270.3	2261.3
17.5°	2389.5	2375.9	2360.0	2340.7	2327.1	2313.5	2297.6	2281.7	2264.6	2248.7	2237.4
20°	2360.0	2345.2	2331.6	2312.3	2301.0	2286.2	2271.4	2254.4	2240.8	2224.9	2212.4
22.5°	2315.7	2302.1	2289.6	2278.3	2260.1	2248.7	2238.6	2219.3	2205.6	2190.8	2177.3
25°	2252.1	2238.6	2228.3	2214.7	2206.7	2194.3	2184.0	2167.0	2154.5	2140.9	2129.5
27.5°	2147.7	2139.8	2134.1	2126.1	2119.4	2113.7	2108.0	2094.4	2085.3	2072.8	2061.5
30°	1991.1	1989.9	1986.5	1983.1	1987.6	1987.6	1987.6	1985.4	1977.5	1968.3	1960.4
32.5°	1790.1	1792.4	1797.0	1800.4	1809.4	1819.7	1828.7	1833.3	1833.3	1827.6	1824.2
35°	1550.6	1554.0	1560.9	1569.9	1581.3	1593.8	1614.2	1618.8	1622.1	1622.1	1617.6
37.5°	1302.0	1300.9	1307.7	1315.7	1322.5	1331.5	1346.3	1349.7	1355.4	1353.1	1348.6
40°	1060.2	1054.6	1052.3	1054.6	1062.5	1059.1	1062.5	1060.2	1060.2	1052.3	1052.3
42.5°	836.6	829.8	825.2	821.9	821.9	813.9	808.2	802.6	799.2	793.5	792.3
45°	644.8	636.8	631.1	628.9	625.5	615.3	608.4	601.6	593.7	591.4	592.6
47.5°	500.6	492.7	490.4	484.7	479.0	473.4	468.8	460.9	459.7	455.2	459.7
50°	385.9	383.7	380.3	378.0	374.6	370.1	365.5	361.0	358.7	358.7	359.8
52.5°	299.7	300.8	297.4	294.0	291.7	291.7	286.0	284.9	284.9	280.4	284.9
55°	229.3	228.2	229.3	227.0	227.0	223.6	223.6	220.2	220.2	216.8	219.1
57.5°	168.0	170.3	168.0	169.1	171.4	168.0	166.9	163.4	165.7	163.4	164.6
60°	130.5	130.5	130.5	129.4	129.4	128.3	128.3	127.1	127.1	124.8	127.1
62.5°	96.5	97.6	97.6	97.6	98.8	97.6	96.5	97.6	96.5	96.5	97.6
65°	63.6	64.7	64.7	63.6	65.8	63.6	64.7	65.8	67.0	65.8	67.0
67.5°	43.1	43.1	44.3	45.4	44.3	45.4	46.5	45.4	46.5	48.8	46.5
70°	31.8	32.9	32.9	31.8	30.7	31.8	30.7	34.1	34.1	34.1	36.3
72.5°	20.4	20.4	19.3	19.3	19.3	19.3	19.3	22.7	20.4	19.3	21.6
75°	11.4	12.5	12.5	9.1	10.2	12.5	9.1	10.2	13.6	11.4	13.6
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	9.1	7.9	7.9	7.9	9.1
80°	5.7	4.5	4.5	3.4	4.5	4.5	4.5	6.8	5.7	5.7	6.8
82.5°	2.3	2.3	1.1	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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: P245824

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8
2.5°	2322.5	2322.5	2321.4	2319.2	2314.6	2314.6	2313.5	2310.0	2307.8	2306.6	2306.6
5°	2311.2	2306.6	2302.1	2289.6	2289.6	2287.3	2280.6	2276.0	2273.7	2268.0	2265.8
7.5°	2301.0	2287.3	2279.4	2271.4	2261.3	2256.7	2248.7	2245.3	2237.4	2231.7	2228.3
10°	2276.0	2266.9	2256.7	2244.2	2236.3	2227.2	2218.1	2211.3	2201.1	2195.4	2190.8
12.5°	2259.0	2245.3	2236.3	2222.6	2209.0	2201.1	2188.6	2180.7	2170.4	2159.1	2152.3
15°	2243.1	2228.3	2215.8	2201.1	2186.3	2177.3	2162.5	2153.4	2138.7	2127.3	2119.4
17.5°	2219.3	2206.7	2193.1	2175.0	2161.4	2150.0	2134.1	2122.8	2109.1	2094.4	2086.4
20°	2194.3	2179.5	2165.9	2147.7	2134.1	2120.5	2104.6	2092.1	2076.2	2062.6	2053.5
22.5°	2161.4	2144.3	2133.0	2114.8	2098.9	2084.2	2069.4	2054.6	2039.9	2028.5	2018.3
25°	2113.7	2095.5	2083.0	2068.2	2053.5	2042.2	2024.0	2014.9	2000.2	1989.9	1979.7
27.5°	2045.5	2031.9	2020.6	2005.8	1993.3	1984.3	1970.6	1961.6	1949.0	1940.0	1932.0
30°	1945.7	1934.3	1924.1	1909.3	1900.3	1892.3	1879.8	1871.9	1862.8	1852.6	1850.3
32.5°	1811.7	1802.6	1792.4	1782.2	1775.4	1770.8	1760.6	1756.1	1747.0	1741.3	1735.7
35°	1609.6	1601.7	1596.0	1591.5	1589.2	1590.3	1588.1	1592.6	1594.9	1593.8	1594.9
37.5°	1345.2	1340.6	1342.9	1346.3	1357.7	1372.4	1386.0	1406.4	1420.1	1433.7	1446.2
40°	1050.0	1053.4	1062.5	1082.9	1112.5	1145.4	1176.0	1214.6	1253.2	1280.5	1305.4
42.5°	792.3	802.6	825.2	854.8	899.1	947.8	995.6	1052.3	1098.9	1144.2	1176.0
45°	596.0	609.6	639.1	680.0	728.8	785.5	845.7	909.3	964.9	1011.4	1046.6
47.5°	464.3	476.8	506.3	549.4	609.6	668.6	731.0	796.9	854.8	900.2	930.8
50°	366.6	382.5	408.6	454.1	514.2	576.7	641.4	706.0	760.6	799.2	826.4
52.5°	288.3	303.1	328.1	375.8	437.1	499.5	559.6	623.2	670.9	708.3	726.5
55°	223.6	237.3	263.3	303.1	361.0	422.3	482.4	537.0	581.2	608.4	625.5
57.5°	170.3	180.5	198.7	238.4	290.6	347.3	398.5	452.9	487.0	506.3	517.6
60°	129.4	137.4	156.7	187.3	235.0	283.8	326.9	367.8	395.1	410.9	422.3
62.5°	97.6	106.7	120.3	146.4	182.7	222.5	258.8	289.5	312.2	322.4	330.3
65°	67.0	73.8	84.0	104.4	135.1	163.4	191.8	214.6	229.3	240.7	245.2
67.5°	49.9	54.5	60.2	76.1	97.6	120.3	139.6	155.5	171.4	176.0	183.9
70°	37.5	40.9	46.5	57.9	70.4	86.3	102.2	111.3	122.6	130.5	132.8
72.5°	23.8	25.0	30.7	37.5	47.7	57.9	68.1	76.1	82.9	87.4	89.7
75°	13.6	20.4	20.4	27.2	34.1	38.6	45.4	51.1	54.5	57.9	57.9
77.5°	9.1	12.5	13.6	17.0	20.4	26.1	31.8	35.2	38.6	39.7	39.7
80°	7.9	9.1	9.1	12.5	14.8	19.3	22.7	23.8	26.1	27.2	29.5
82.5°	3.4	4.5	5.7	9.1	10.2	10.2	13.6	14.8	17.0	18.2	18.2
85°	1.1	2.3	2.3	3.4	5.7	6.8	7.9	9.1	10.2	10.2	11.4
87.5°	1.1	1.1	0.0	1.1	2.3	2.3	4.5	4.5	4.5	6.8	6.8
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: P245824

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8
2.5°	2304.4	2305.5	2301.0	2299.9	2297.6	2298.7	2301.0
5°	2262.4	2263.5	2259.0	2254.4	2254.4	2253.3	2254.4
7.5°	2222.6	2223.8	2217.0	2214.7	2210.1	2211.3	2211.3
10°	2182.9	2182.9	2172.7	2171.6	2168.1	2167.0	2167.0
12.5°	2144.3	2140.9	2133.0	2128.4	2130.7	2123.9	2123.9
15°	2110.2	2104.6	2094.4	2091.0	2085.3	2083.0	2083.0
17.5°	2075.1	2070.5	2061.5	2054.6	2047.8	2046.7	2047.8
20°	2041.0	2036.5	2025.1	2020.6	2014.9	2014.9	2012.6
22.5°	2006.9	2002.4	1992.2	1988.8	1980.9	1980.9	1982.0
25°	1971.8	1968.3	1957.0	1954.8	1953.6	1949.0	1951.3
27.5°	1924.1	1921.8	1912.7	1909.3	1904.8	1903.7	1905.9
30°	1836.7	1833.3	1826.5	1823.1	1815.1	1816.3	1818.5
32.5°	1727.7	1723.2	1714.1	1710.7	1703.9	1701.6	1702.7
35°	1591.5	1588.1	1580.2	1580.2	1573.3	1571.1	1573.3
37.5°	1453.0	1456.4	1453.0	1456.4	1453.0	1451.9	1453.0
40°	1322.5	1335.0	1337.2	1349.7	1345.2	1352.0	1350.8
42.5°	1197.6	1218.0	1226.0	1236.2	1233.9	1238.5	1241.9
45°	1071.6	1088.6	1096.6	1103.4	1104.5	1106.8	1107.9
47.5°	952.4	966.0	967.1	975.1	974.0	974.0	977.4
50°	841.2	850.2	852.5	858.2	853.6	851.4	852.5
52.5°	737.9	746.9	744.6	746.9	741.3	739.0	740.1
55°	632.3	636.8	636.8	636.8	630.0	630.0	630.0
57.5°	524.4	525.6	523.3	524.4	523.3	516.5	515.4
60°	425.7	425.7	424.5	425.7	422.3	418.9	418.9
62.5°	332.6	334.9	339.4	334.9	332.6	334.9	331.5
65°	248.6	253.2	252.0	254.3	253.2	253.2	250.9
67.5°	187.3	188.4	189.6	190.7	190.7	190.7	190.7
70°	137.4	140.8	139.6	139.6	139.6	139.6	146.4
72.5°	92.0	96.5	95.4	97.6	97.6	99.9	97.6
75°	62.4	67.0	64.7	68.1	67.0	64.7	70.4
77.5°	42.0	44.3	45.4	46.5	45.4	44.3	45.4
80°	29.5	31.8	30.7	31.8	31.8	31.8	32.9
82.5°	18.2	21.6	20.4	21.6	20.4	21.6	21.6
85°	12.5	13.6	11.4	13.6	12.5	12.5	14.8
87.5°	7.9	6.8	6.8	7.9	6.8	7.9	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)