

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: P245836

Luminaire Tested: **LD8B40D010 ER8B40840 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245836  
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 ER8B40840 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4046.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 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

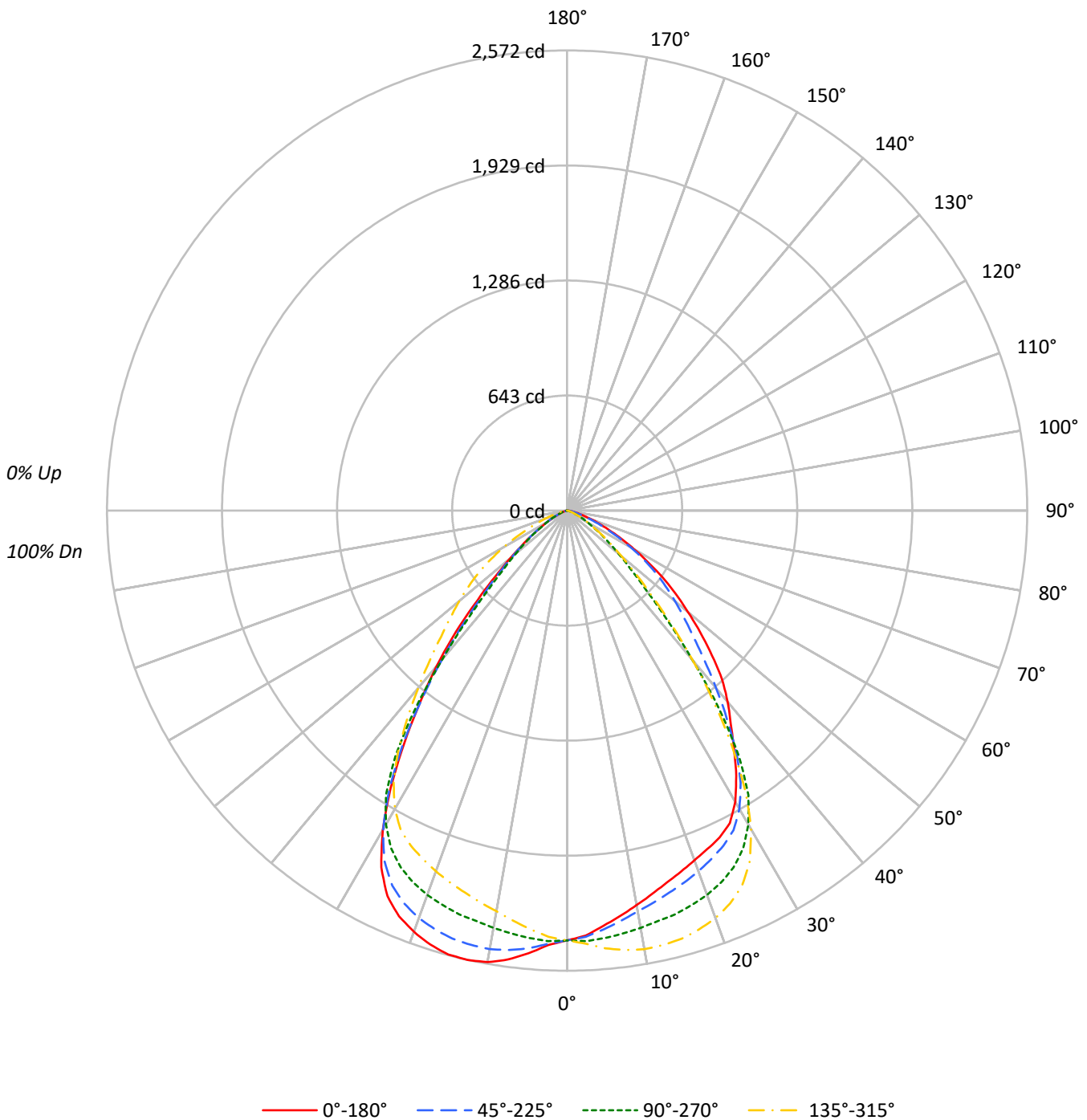
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	74069	74069	74069	74069
5°	72101	74243	76893	74243
10°	70108	74144	80240	74144
15°	68707	74584	81997	74584
20°	68239	75013	82209	75013
25°	68596	74860	80889	74860
30°	66901	72121	73417	72121
35°	61194	62915	59692	62915
40°	56182	43764	45700	43764
45°	49919	26698	30893	26698
50°	42254	17836	19803	17836
55°	34993	12172	12865	12172
60°	26692	8104	8172	8104
65°	18913	5049	4619	5049
70°	13641	3381	3065	3381
75°	8662	1680	1394	1680
80°	6038	1243	1030	1243
85°	5413	0	425	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.6	5.7
10°-20°	662.0	16.4
20°-30°	1002.5	24.8
30°-40°	1004.7	24.8
40°-50°	630.9	15.6
50°-60°	336.2	8.3
60°-70°	138.3	3.4
70°-80°	36.5	0.9
80°-90°	6.2	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°	1893.2	46.8
0°-40°	2897.9	71.6
0°-60°	3865.0	95.5
0°-90°	4046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4046.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2402	2402	2402	2402	2402	
5°	2329	2398	2484	2398	2329	220
15°	2152	2336	2568	2336	2152	609
25°	2016	2200	2377	2200	2016	925
35°	1626	1671	1586	1671	1626	1018
45°	1145	612	708	612	1145	880
55°	651	226	239	226	651	580
65°	259	69	63	69	259	269
75°	73	14	12	14	73	82
85°	15	0	1	0	15	17
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°	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2377.4	2375.0	2373.8	2376.2	2377.4	2382.0	2380.9	2383.2	2383.2	2384.4	2386.7
5°	2329.3	2328.1	2329.3	2329.3	2334.0	2338.6	2337.5	2341.0	2343.3	2349.2	2351.5
7.5°	2284.7	2284.7	2283.5	2288.2	2290.6	2297.6	2296.4	2302.3	2305.8	2311.7	2319.9
10°	2239.0	2239.0	2240.1	2243.6	2244.8	2255.4	2255.4	2263.6	2268.3	2274.1	2284.7
12.5°	2194.4	2194.4	2201.4	2199.1	2203.8	2212.0	2215.5	2223.7	2230.7	2242.5	2253.1
15°	2152.2	2152.2	2154.5	2160.4	2163.9	2174.5	2180.3	2189.7	2197.9	2209.7	2224.9
17.5°	2115.8	2114.6	2115.8	2122.9	2129.9	2139.3	2144.0	2155.7	2163.9	2179.1	2193.2
20°	2079.5	2081.8	2081.8	2087.7	2092.3	2104.1	2108.8	2121.7	2131.1	2145.1	2161.6
22.5°	2047.8	2046.6	2046.6	2054.8	2058.4	2068.9	2073.6	2085.3	2095.9	2107.6	2122.9
25°	2016.1	2013.8	2018.5	2019.6	2022.0	2033.7	2037.2	2045.4	2056.0	2066.6	2081.8
27.5°	1969.2	1966.9	1968.0	1972.7	1976.2	1985.6	1988.0	1996.2	2004.4	2013.8	2026.7
30°	1878.9	1876.6	1875.4	1883.6	1887.1	1894.1	1897.7	1911.7	1914.1	1924.6	1934.0
32.5°	1759.2	1758.1	1760.5	1767.5	1771.0	1780.4	1785.1	1793.3	1799.1	1805.0	1814.4
35°	1625.6	1623.2	1625.6	1632.6	1632.6	1640.8	1644.4	1647.8	1646.7	1647.8	1645.5
37.5°	1501.3	1500.1	1501.3	1504.7	1501.3	1504.7	1501.3	1494.2	1481.3	1467.2	1453.1
40°	1395.7	1396.8	1389.8	1394.5	1381.6	1379.3	1366.4	1348.8	1323.0	1294.8	1255.0
42.5°	1283.1	1279.6	1274.9	1277.2	1266.7	1258.4	1237.3	1215.1	1182.2	1135.3	1087.2
45°	1144.7	1143.5	1141.2	1140.0	1133.0	1124.8	1107.1	1081.4	1045.0	996.9	939.4
47.5°	1009.8	1006.3	1006.3	1007.5	999.2	998.1	984.0	961.7	930.1	883.1	823.3
50°	880.8	879.6	882.0	886.7	880.8	878.5	869.1	853.8	825.7	785.8	729.5
52.5°	764.7	763.5	765.9	771.7	769.4	771.7	762.4	750.6	731.9	693.1	643.9
55°	650.9	650.9	650.9	657.9	657.9	657.9	653.3	646.3	628.6	600.5	554.8
57.5°	532.5	533.6	540.7	541.8	540.7	543.0	541.8	534.8	523.1	503.2	468.0
60°	432.8	432.8	436.3	439.8	438.6	439.8	439.8	436.3	424.6	408.2	380.0
62.5°	342.5	346.0	343.6	346.0	350.7	346.0	343.6	341.3	333.1	322.5	299.1
65°	259.2	261.6	261.6	262.7	260.3	261.6	256.9	253.3	248.7	236.9	221.7
67.5°	197.1	197.1	197.1	197.1	195.9	194.7	193.5	190.0	181.8	177.1	160.7
70°	151.3	144.2	144.2	144.2	144.2	145.5	141.9	137.2	134.9	126.7	114.9
72.5°	100.8	103.2	100.8	100.8	98.5	99.7	95.0	92.6	90.3	85.6	78.6
75°	72.7	66.9	69.2	70.4	66.9	69.2	64.5	59.8	59.8	56.3	52.8
77.5°	46.9	45.8	46.9	48.1	46.9	45.8	43.4	41.0	41.0	39.9	36.4
80°	34.0	32.8	32.8	32.8	31.7	32.8	30.5	30.5	28.1	27.0	24.6
82.5°	22.3	22.3	21.1	22.3	21.1	22.3	18.8	18.8	18.8	17.6	15.3
85°	15.3	12.9	12.9	14.1	11.7	14.1	12.9	11.7	10.6	10.6	9.4
87.5°	7.0	8.2	7.0	8.2	7.0	7.0	8.2	7.0	7.0	4.7	4.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2390.3	2391.4	2391.4	2396.1	2398.5	2399.6	2399.6	2409.0	2405.5	2407.9	2410.2
5°	2356.3	2363.3	2365.6	2365.6	2378.5	2383.2	2387.9	2398.5	2399.6	2406.7	2414.9
7.5°	2323.4	2331.6	2336.3	2346.9	2355.1	2363.3	2377.4	2384.4	2391.4	2400.8	2411.3
10°	2291.7	2301.1	2310.5	2318.7	2331.6	2342.2	2351.5	2367.9	2376.2	2389.1	2403.1
12.5°	2261.3	2274.1	2282.4	2296.4	2310.5	2319.9	2334.0	2349.2	2362.1	2375.0	2391.4
15°	2234.3	2249.5	2258.9	2274.1	2289.4	2302.3	2317.5	2336.3	2345.7	2360.9	2376.2
17.5°	2204.9	2221.4	2233.1	2247.2	2265.9	2280.0	2292.9	2311.7	2323.4	2339.8	2357.4
20°	2174.5	2190.9	2204.9	2219.0	2237.8	2251.8	2267.1	2285.9	2298.8	2315.2	2329.3
22.5°	2138.1	2153.4	2168.6	2185.0	2203.8	2215.5	2233.1	2249.5	2263.6	2278.8	2292.9
25°	2091.2	2110.0	2121.7	2136.9	2152.2	2165.0	2183.8	2200.2	2212.0	2226.1	2239.0
27.5°	2036.1	2050.2	2059.5	2072.4	2087.7	2099.4	2113.4	2129.9	2141.6	2154.5	2163.9
30°	1942.2	1955.1	1963.4	1972.7	1988.0	1998.5	2010.3	2025.5	2033.7	2043.1	2051.3
32.5°	1819.1	1829.6	1834.3	1841.4	1851.9	1862.5	1871.9	1884.8	1888.3	1894.1	1894.1
35°	1640.8	1643.1	1642.0	1644.4	1649.0	1654.9	1663.1	1671.3	1676.0	1676.0	1672.5
37.5°	1432.0	1418.0	1402.7	1391.0	1387.5	1385.1	1389.8	1393.3	1398.1	1400.4	1394.5
40°	1215.1	1183.4	1149.4	1118.9	1097.8	1088.4	1084.9	1087.2	1087.2	1095.4	1095.4
42.5°	1028.6	979.3	928.9	883.1	852.6	829.2	818.7	818.7	819.8	825.7	829.2
45°	873.8	811.6	752.9	702.5	660.3	629.8	615.8	612.2	611.1	613.4	621.6
47.5°	755.3	690.8	629.8	567.7	523.1	492.6	479.7	475.0	470.3	475.0	476.2
50°	662.7	595.8	531.3	469.1	422.2	395.2	378.8	371.8	370.6	370.6	373.0
52.5°	578.2	516.1	451.6	388.2	338.9	313.2	297.9	294.4	289.7	294.4	294.4
55°	498.4	436.3	373.0	313.2	272.1	245.1	231.0	226.4	224.0	227.5	227.5
57.5°	411.7	358.9	300.3	246.3	205.3	186.5	175.9	170.1	168.9	171.2	168.9
60°	337.8	293.2	242.8	193.5	161.9	141.9	133.7	131.4	129.0	131.4	131.4
62.5°	267.4	229.9	188.8	151.3	124.3	110.3	100.8	100.8	99.7	99.7	100.8
65°	198.2	168.9	139.6	107.9	86.8	76.2	69.2	69.2	68.0	69.2	68.0
67.5°	144.2	124.3	100.8	78.6	62.2	56.3	51.6	48.1	50.4	48.1	46.9
70°	105.6	89.1	72.7	59.8	48.1	42.2	38.7	37.5	35.2	35.2	35.2
72.5°	70.4	59.8	49.2	38.7	31.7	25.8	24.6	22.3	19.9	21.1	23.5
75°	46.9	39.9	35.2	28.1	21.1	21.1	14.1	14.1	11.7	14.1	10.6
77.5°	32.8	27.0	21.1	17.6	14.1	12.9	9.4	9.4	8.2	8.2	8.2
80°	23.5	19.9	15.3	12.9	9.4	9.4	8.2	7.0	5.8	5.8	7.0
82.5°	14.1	10.6	10.6	9.4	5.8	4.7	3.5	4.7	2.4	2.4	2.4
85°	8.2	7.0	5.8	3.5	2.4	2.4	1.2	0.0	1.2	1.2	0.0
87.5°	4.7	2.4	2.4	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.4
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°	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2416.1	2414.9	2417.2	2417.2	2424.3	2423.1	2426.6	2426.6	2424.3	2425.4	2430.1
5°	2424.3	2427.8	2434.8	2440.7	2451.2	2456.0	2461.8	2467.7	2468.8	2472.4	2475.9
7.5°	2424.3	2436.0	2444.2	2454.7	2468.8	2477.1	2489.9	2500.5	2505.2	2511.0	2518.1
10°	2419.6	2431.3	2446.5	2458.3	2475.9	2488.8	2501.7	2518.1	2525.1	2534.5	2543.9
12.5°	2410.2	2423.1	2439.5	2454.7	2474.7	2486.4	2502.8	2518.1	2528.7	2541.5	2552.1
15°	2396.1	2411.3	2426.6	2441.9	2463.0	2477.1	2492.3	2509.9	2520.4	2534.5	2543.9
17.5°	2373.8	2390.3	2404.3	2418.4	2438.3	2454.7	2468.8	2485.3	2495.8	2507.6	2520.4
20°	2346.9	2362.1	2377.4	2389.1	2409.0	2423.1	2438.3	2453.6	2461.8	2464.2	2484.1
22.5°	2312.9	2323.4	2335.1	2353.9	2365.6	2378.5	2392.6	2406.7	2414.9	2427.8	2434.8
25°	2256.5	2267.1	2280.0	2288.2	2302.3	2312.9	2326.9	2342.2	2346.9	2356.3	2363.3
27.5°	2178.0	2183.8	2189.7	2196.7	2204.9	2210.8	2219.0	2226.1	2230.7	2235.4	2240.1
30°	2053.6	2053.6	2053.6	2048.9	2052.5	2056.0	2057.2	2056.0	2056.0	2054.8	2054.8
32.5°	1889.4	1880.1	1869.5	1860.1	1856.6	1851.9	1849.6	1846.0	1840.2	1836.7	1837.8
35°	1667.8	1646.7	1633.8	1622.0	1612.7	1605.6	1602.1	1598.6	1597.4	1592.7	1588.0
37.5°	1391.0	1375.7	1366.4	1359.3	1351.1	1344.1	1345.2	1346.4	1349.9	1347.6	1348.8
40°	1097.8	1094.3	1097.8	1089.6	1087.2	1089.6	1095.4	1103.7	1108.4	1113.0	1121.2
42.5°	835.1	840.9	849.2	849.2	852.6	857.4	864.4	877.3	884.3	892.5	901.9
45°	628.6	635.7	646.3	649.7	652.1	657.9	666.2	676.7	681.4	688.5	696.7
47.5°	484.4	489.1	494.9	500.8	506.6	509.0	517.2	517.2	523.1	527.8	530.1
50°	377.7	382.3	387.0	390.5	392.9	396.4	398.8	402.3	403.4	405.8	407.0
52.5°	295.5	301.4	301.4	303.7	307.3	310.8	309.6	310.8	312.0	312.0	315.5
55°	231.0	231.0	234.6	234.6	236.9	235.7	236.9	236.9	236.9	236.9	238.1
57.5°	172.4	173.6	177.1	174.8	173.6	175.9	173.6	175.9	174.8	177.1	173.6
60°	132.5	132.5	133.7	133.7	134.9	134.9	134.9	133.7	133.7	132.5	132.5
62.5°	99.7	100.8	102.1	100.8	100.8	100.8	99.7	99.7	98.5	97.3	97.3
65°	66.9	65.7	68.0	65.7	66.9	66.9	65.7	66.9	63.3	64.5	63.3
67.5°	48.1	46.9	45.8	46.9	45.8	44.6	44.6	45.8	46.9	43.4	43.4
70°	31.7	32.8	31.7	32.8	34.0	34.0	32.8	31.7	32.8	30.5	31.7
72.5°	19.9	19.9	19.9	19.9	19.9	21.1	21.1	21.1	18.8	18.8	17.6
75°	9.4	12.9	10.6	9.4	12.9	12.9	11.7	11.7	10.6	10.6	10.6
77.5°	9.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	5.8	7.0	5.8
80°	4.7	4.7	4.7	3.5	4.7	4.7	5.8	4.7	4.7	3.5	5.8
82.5°	2.4	2.4	2.4	0.0	1.2	2.4	2.4	1.2	2.4	2.4	1.2
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: P245836

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2429.0	2427.8	2429.0	2430.1	2429.0	2427.8	2429.0	2430.1	2425.4	2424.3	2426.6
5°	2480.6	2480.6	2482.9	2484.1	2482.9	2480.6	2480.6	2475.9	2472.4	2468.8	2467.7
7.5°	2525.1	2527.5	2529.8	2531.0	2529.8	2527.5	2525.1	2518.1	2511.0	2505.2	2500.5
10°	2552.1	2555.6	2560.3	2562.6	2560.3	2555.6	2552.1	2543.9	2534.5	2525.1	2518.1
12.5°	2563.8	2567.4	2573.2	2572.1	2573.2	2567.4	2563.8	2552.1	2541.5	2528.7	2518.1
15°	2555.6	2560.3	2566.2	2568.5	2566.2	2560.3	2555.6	2543.9	2534.5	2520.4	2509.9
17.5°	2529.8	2536.9	2540.4	2543.9	2540.4	2536.9	2529.8	2520.4	2507.6	2495.8	2485.3
20°	2494.6	2499.4	2504.0	2505.2	2504.0	2499.4	2494.6	2484.1	2464.2	2461.8	2453.6
22.5°	2444.2	2447.7	2458.3	2454.7	2458.3	2447.7	2444.2	2434.8	2427.8	2414.9	2406.7
25°	2371.5	2375.0	2376.2	2377.4	2376.2	2375.0	2371.5	2363.3	2356.3	2346.9	2342.2
27.5°	2246.0	2246.0	2248.3	2249.5	2248.3	2246.0	2246.0	2240.1	2235.4	2230.7	2226.1
30°	2056.0	2056.0	2056.0	2061.9	2056.0	2056.0	2056.0	2054.8	2054.8	2056.0	2056.0
32.5°	1836.7	1834.3	1832.0	1834.3	1832.0	1834.3	1836.7	1837.8	1836.7	1840.2	1846.0
35°	1588.0	1586.9	1590.4	1585.7	1590.4	1586.9	1588.0	1588.0	1592.7	1597.4	1598.6
37.5°	1349.9	1347.6	1352.3	1347.6	1352.3	1347.6	1349.9	1348.8	1347.6	1349.9	1346.4
40°	1123.6	1125.9	1125.9	1135.3	1125.9	1125.9	1123.6	1121.2	1113.0	1108.4	1103.7
42.5°	906.6	913.7	911.3	918.3	911.3	913.7	906.6	901.9	892.5	884.3	877.3
45°	701.3	706.1	706.1	708.4	706.1	706.1	701.3	696.7	688.5	681.4	676.7
47.5°	538.3	538.3	538.3	539.5	538.3	538.3	538.3	530.1	527.8	523.1	517.2
50°	409.3	410.5	411.7	412.8	411.7	410.5	409.3	407.0	405.8	403.4	402.3
52.5°	314.3	315.5	313.2	315.5	313.2	315.5	314.3	315.5	312.0	312.0	310.8
55°	238.1	236.9	238.1	239.3	238.1	236.9	238.1	238.1	236.9	236.9	236.9
57.5°	174.8	172.4	172.4	172.4	172.4	172.4	174.8	173.6	177.1	174.8	175.9
60°	130.2	131.4	131.4	132.5	131.4	131.4	130.2	132.5	132.5	133.7	133.7
62.5°	96.2	99.7	97.3	99.7	97.3	99.7	96.2	97.3	97.3	98.5	99.7
65°	62.2	62.2	62.2	63.3	62.2	62.2	62.2	63.3	64.5	63.3	66.9
67.5°	42.2	43.4	45.8	44.6	45.8	43.4	42.2	43.4	43.4	46.9	45.8
70°	34.0	30.5	30.5	34.0	30.5	30.5	34.0	31.7	30.5	32.8	31.7
72.5°	19.9	17.6	19.9	19.9	19.9	17.6	19.9	17.6	18.8	18.8	21.1
75°	10.6	9.4	8.2	11.7	8.2	9.4	10.6	10.6	10.6	10.6	11.7
77.5°	7.0	5.8	8.2	8.2	8.2	5.8	7.0	5.8	7.0	5.8	7.0
80°	3.5	4.7	3.5	5.8	3.5	4.7	3.5	5.8	3.5	4.7	4.7
82.5°	1.2	2.4	2.4	2.4	2.4	2.4	1.2	1.2	2.4	2.4	1.2
85°	0.0	2.4	1.2	1.2	1.2	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	1.2	0.0	0.0	1.2	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: P245836

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2426.6	2423.1	2424.3	2417.2	2417.2	2414.9	2416.1	2410.2	2407.9	2405.5	2409.0
5°	2461.8	2456.0	2451.2	2440.7	2434.8	2427.8	2424.3	2414.9	2406.7	2399.6	2398.5
7.5°	2489.9	2477.1	2468.8	2454.7	2444.2	2436.0	2424.3	2411.3	2400.8	2391.4	2384.4
10°	2501.7	2488.8	2475.9	2458.3	2446.5	2431.3	2419.6	2403.1	2389.1	2376.2	2367.9
12.5°	2502.8	2486.4	2474.7	2454.7	2439.5	2423.1	2410.2	2391.4	2375.0	2362.1	2349.2
15°	2492.3	2477.1	2463.0	2441.9	2426.6	2411.3	2396.1	2376.2	2360.9	2345.7	2336.3
17.5°	2468.8	2454.7	2438.3	2418.4	2404.3	2390.3	2373.8	2357.4	2339.8	2323.4	2311.7
20°	2438.3	2423.1	2409.0	2389.1	2377.4	2362.1	2346.9	2329.3	2315.2	2298.8	2285.9
22.5°	2392.6	2378.5	2365.6	2353.9	2335.1	2323.4	2312.9	2292.9	2278.8	2263.6	2249.5
25°	2326.9	2312.9	2302.3	2288.2	2280.0	2267.1	2256.5	2239.0	2226.1	2212.0	2200.2
27.5°	2219.0	2210.8	2204.9	2196.7	2189.7	2183.8	2178.0	2163.9	2154.5	2141.6	2129.9
30°	2057.2	2056.0	2052.5	2048.9	2053.6	2053.6	2053.6	2051.3	2043.1	2033.7	2025.5
32.5°	1849.6	1851.9	1856.6	1860.1	1869.5	1880.1	1889.4	1894.1	1894.1	1888.3	1884.8
35°	1602.1	1605.6	1612.7	1622.0	1633.8	1646.7	1667.8	1672.5	1676.0	1676.0	1671.3
37.5°	1345.2	1344.1	1351.1	1359.3	1366.4	1375.7	1391.0	1394.5	1400.4	1398.1	1393.3
40°	1095.4	1089.6	1087.2	1089.6	1097.8	1094.3	1097.8	1095.4	1095.4	1087.2	1087.2
42.5°	864.4	857.4	852.6	849.2	849.2	840.9	835.1	829.2	825.7	819.8	818.7
45°	666.2	657.9	652.1	649.7	646.3	635.7	628.6	621.6	613.4	611.1	612.2
47.5°	517.2	509.0	506.6	500.8	494.9	489.1	484.4	476.2	475.0	470.3	475.0
50°	398.8	396.4	392.9	390.5	387.0	382.3	377.7	373.0	370.6	370.6	371.8
52.5°	309.6	310.8	307.3	303.7	301.4	301.4	295.5	294.4	294.4	289.7	294.4
55°	236.9	235.7	236.9	234.6	234.6	231.0	231.0	227.5	227.5	224.0	226.4
57.5°	173.6	175.9	173.6	174.8	177.1	173.6	172.4	168.9	171.2	168.9	170.1
60°	134.9	134.9	134.9	133.7	133.7	132.5	132.5	131.4	131.4	129.0	131.4
62.5°	99.7	100.8	100.8	100.8	102.1	100.8	99.7	100.8	99.7	99.7	100.8
65°	65.7	66.9	66.9	65.7	68.0	65.7	66.9	68.0	69.2	68.0	69.2
67.5°	44.6	44.6	45.8	46.9	45.8	46.9	48.1	46.9	48.1	50.4	48.1
70°	32.8	34.0	34.0	32.8	31.7	32.8	31.7	35.2	35.2	35.2	37.5
72.5°	21.1	21.1	19.9	19.9	19.9	19.9	19.9	23.5	21.1	19.9	22.3
75°	11.7	12.9	12.9	9.4	10.6	12.9	9.4	10.6	14.1	11.7	14.1
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	9.4	8.2	8.2	8.2	9.4
80°	5.8	4.7	4.7	3.5	4.7	4.7	4.7	7.0	5.8	5.8	7.0
82.5°	2.4	2.4	1.2	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	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: P245836

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2399.6	2399.6	2398.5	2396.1	2391.4	2391.4	2390.3	2386.7	2384.4	2383.2	2383.2
5°	2387.9	2383.2	2378.5	2365.6	2365.6	2363.3	2356.3	2351.5	2349.2	2343.3	2341.0
7.5°	2377.4	2363.3	2355.1	2346.9	2336.3	2331.6	2323.4	2319.9	2311.7	2305.8	2302.3
10°	2351.5	2342.2	2331.6	2318.7	2310.5	2301.1	2291.7	2284.7	2274.1	2268.3	2263.6
12.5°	2334.0	2319.9	2310.5	2296.4	2282.4	2274.1	2261.3	2253.1	2242.5	2230.7	2223.7
15°	2317.5	2302.3	2289.4	2274.1	2258.9	2249.5	2234.3	2224.9	2209.7	2197.9	2189.7
17.5°	2292.9	2280.0	2265.9	2247.2	2233.1	2221.4	2204.9	2193.2	2179.1	2163.9	2155.7
20°	2267.1	2251.8	2237.8	2219.0	2204.9	2190.9	2174.5	2161.6	2145.1	2131.1	2121.7
22.5°	2233.1	2215.5	2203.8	2185.0	2168.6	2153.4	2138.1	2122.9	2107.6	2095.9	2085.3
25°	2183.8	2165.0	2152.2	2136.9	2121.7	2110.0	2091.2	2081.8	2066.6	2056.0	2045.4
27.5°	2113.4	2099.4	2087.7	2072.4	2059.5	2050.2	2036.1	2026.7	2013.8	2004.4	1996.2
30°	2010.3	1998.5	1988.0	1972.7	1963.4	1955.1	1942.2	1934.0	1924.6	1914.1	1911.7
32.5°	1871.9	1862.5	1851.9	1841.4	1834.3	1829.6	1819.1	1814.4	1805.0	1799.1	1793.3
35°	1663.1	1654.9	1649.0	1644.4	1642.0	1643.1	1640.8	1645.5	1647.8	1646.7	1647.8
37.5°	1389.8	1385.1	1387.5	1391.0	1402.7	1418.0	1432.0	1453.1	1467.2	1481.3	1494.2
40°	1084.9	1088.4	1097.8	1118.9	1149.4	1183.4	1215.1	1255.0	1294.8	1323.0	1348.8
42.5°	818.7	829.2	852.6	883.1	928.9	979.3	1028.6	1087.2	1135.3	1182.2	1215.1
45°	615.8	629.8	660.3	702.5	752.9	811.6	873.8	939.4	996.9	1045.0	1081.4
47.5°	479.7	492.6	523.1	567.7	629.8	690.8	755.3	823.3	883.1	930.1	961.7
50°	378.8	395.2	422.2	469.1	531.3	595.8	662.7	729.5	785.8	825.7	853.8
52.5°	297.9	313.2	338.9	388.2	451.6	516.1	578.2	643.9	693.1	731.9	750.6
55°	231.0	245.1	272.1	313.2	373.0	436.3	498.4	554.8	600.5	628.6	646.3
57.5°	175.9	186.5	205.3	246.3	300.3	358.9	411.7	468.0	503.2	523.1	534.8
60°	133.7	141.9	161.9	193.5	242.8	293.2	337.8	380.0	408.2	424.6	436.3
62.5°	100.8	110.3	124.3	151.3	188.8	229.9	267.4	299.1	322.5	333.1	341.3
65°	69.2	76.2	86.8	107.9	139.6	168.9	198.2	221.7	236.9	248.7	253.3
67.5°	51.6	56.3	62.2	78.6	100.8	124.3	144.2	160.7	177.1	181.8	190.0
70°	38.7	42.2	48.1	59.8	72.7	89.1	105.6	114.9	126.7	134.9	137.2
72.5°	24.6	25.8	31.7	38.7	49.2	59.8	70.4	78.6	85.6	90.3	92.6
75°	14.1	21.1	21.1	28.1	35.2	39.9	46.9	52.8	56.3	59.8	59.8
77.5°	9.4	12.9	14.1	17.6	21.1	27.0	32.8	36.4	39.9	41.0	41.0
80°	8.2	9.4	9.4	12.9	15.3	19.9	23.5	24.6	27.0	28.1	30.5
82.5°	3.5	4.7	5.8	9.4	10.6	10.6	14.1	15.3	17.6	18.8	18.8
85°	1.2	2.4	2.4	3.5	5.8	7.0	8.2	9.4	10.6	10.6	11.7
87.5°	1.2	1.2	0.0	1.2	2.4	2.4	4.7	4.7	4.7	7.0	7.0
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: P245836

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0	2402.0
2.5°	2380.9	2382.0	2377.4	2376.2	2373.8	2375.0	2377.4
5°	2337.5	2338.6	2334.0	2329.3	2329.3	2328.1	2329.3
7.5°	2296.4	2297.6	2290.6	2288.2	2283.5	2284.7	2284.7
10°	2255.4	2255.4	2244.8	2243.6	2240.1	2239.0	2239.0
12.5°	2215.5	2212.0	2203.8	2199.1	2201.4	2194.4	2194.4
15°	2180.3	2174.5	2163.9	2160.4	2154.5	2152.2	2152.2
17.5°	2144.0	2139.3	2129.9	2122.9	2115.8	2114.6	2115.8
20°	2108.8	2104.1	2092.3	2087.7	2081.8	2081.8	2079.5
22.5°	2073.6	2068.9	2058.4	2054.8	2046.6	2046.6	2047.8
25°	2037.2	2033.7	2022.0	2019.6	2018.5	2013.8	2016.1
27.5°	1988.0	1985.6	1976.2	1972.7	1968.0	1966.9	1969.2
30°	1897.7	1894.1	1887.1	1883.6	1875.4	1876.6	1878.9
32.5°	1785.1	1780.4	1771.0	1767.5	1760.5	1758.1	1759.2
35°	1644.4	1640.8	1632.6	1632.6	1625.6	1623.2	1625.6
37.5°	1501.3	1504.7	1501.3	1504.7	1501.3	1500.1	1501.3
40°	1366.4	1379.3	1381.6	1394.5	1389.8	1396.8	1395.7
42.5°	1237.3	1258.4	1266.7	1277.2	1274.9	1279.6	1283.1
45°	1107.1	1124.8	1133.0	1140.0	1141.2	1143.5	1144.7
47.5°	984.0	998.1	999.2	1007.5	1006.3	1006.3	1009.8
50°	869.1	878.5	880.8	886.7	882.0	879.6	880.8
52.5°	762.4	771.7	769.4	771.7	765.9	763.5	764.7
55°	653.3	657.9	657.9	657.9	650.9	650.9	650.9
57.5°	541.8	543.0	540.7	541.8	540.7	533.6	532.5
60°	439.8	439.8	438.6	439.8	436.3	432.8	432.8
62.5°	343.6	346.0	350.7	346.0	343.6	346.0	342.5
65°	256.9	261.6	260.3	262.7	261.6	261.6	259.2
67.5°	193.5	194.7	195.9	197.1	197.1	197.1	197.1
70°	141.9	145.5	144.2	144.2	144.2	144.2	151.3
72.5°	95.0	99.7	98.5	100.8	100.8	103.2	100.8
75°	64.5	69.2	66.9	70.4	69.2	66.9	72.7
77.5°	43.4	45.8	46.9	48.1	46.9	45.8	46.9
80°	30.5	32.8	31.7	32.8	32.8	32.8	34.0
82.5°	18.8	22.3	21.1	22.3	21.1	22.3	22.3
85°	12.9	14.1	11.7	14.1	12.9	12.9	15.3
87.5°	8.2	7.0	7.0	8.2	7.0	8.2	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)