

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: P245842

Luminaire Tested: **LD8B40D010 ER8B40850 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245842  
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 ER8B40850 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4125.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 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

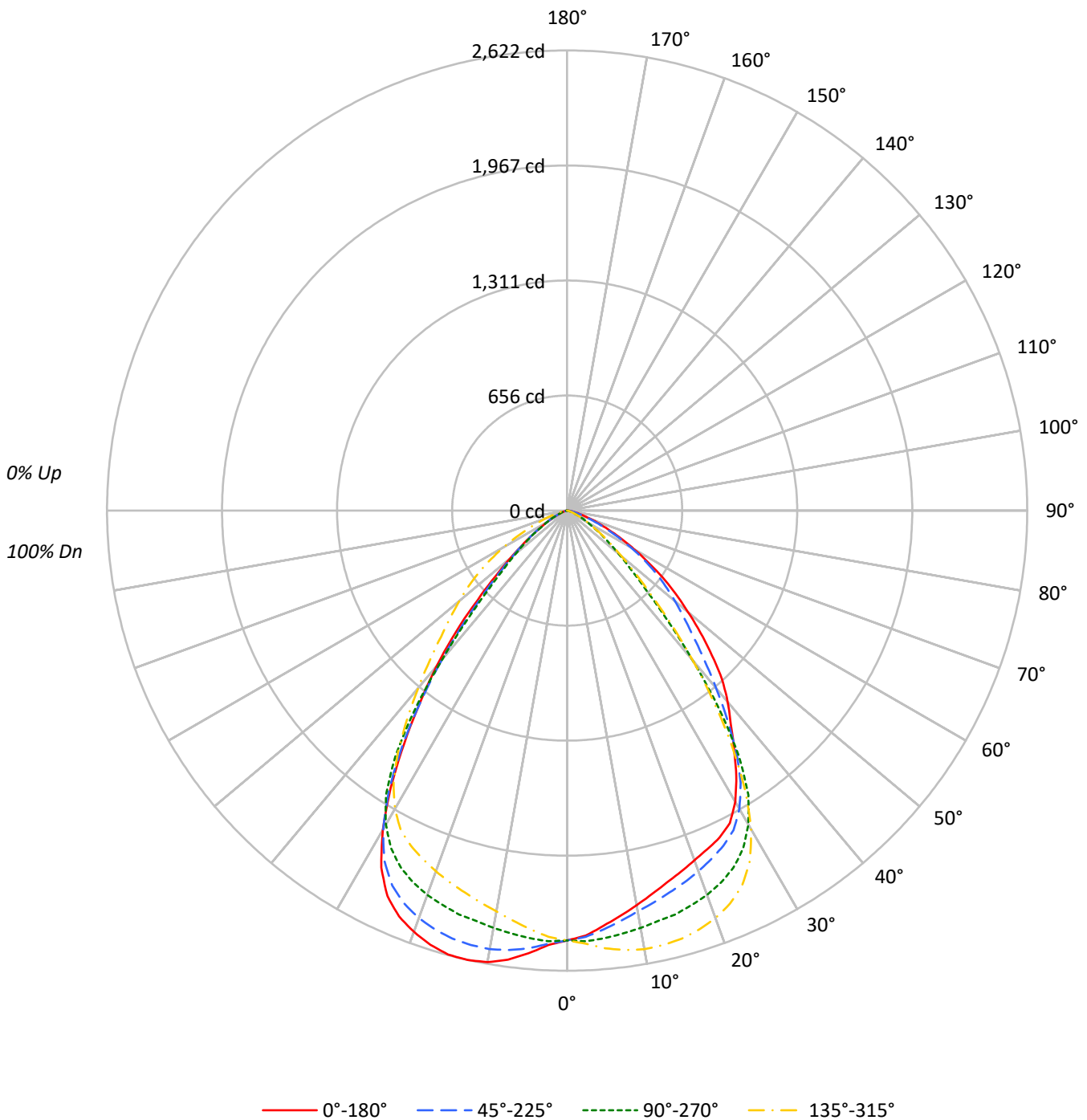
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	75515	75515	75515	75515
5°	73510	75692	78394	75692
10°	71476	75593	81809	75593
15°	70048	76040	83600	76040
20°	69572	76476	83814	76476
25°	69937	76323	82468	76323
30°	68208	73528	74849	73528
35°	62388	64142	60859	64142
40°	57277	44617	46594	44617
45°	50896	27221	31495	27221
50°	43080	18182	20192	18182
55°	35681	12408	13112	12408
60°	27210	8258	8332	8258
65°	19285	5144	4714	5144
70°	13903	3444	3129	3444
75°	8828	1716	1430	1716
80°	6162	1279	1065	1279
85°	5519	0	425	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.1	5.7
10°-20°	675.0	16.4
20°-30°	1022.1	24.8
30°-40°	1024.4	24.8
40°-50°	643.2	15.6
50°-60°	342.8	8.3
60°-70°	141.0	3.4
70°-80°	37.2	0.9
80°-90°	6.3	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°	1930.1	46.8
0°-40°	2954.5	71.6
0°-60°	3940.5	95.5
0°-90°	4125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4125.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2449	2449	2449	2449	2449	
5°	2375	2445	2533	2445	2375	224
15°	2194	2382	2619	2382	2194	621
25°	2056	2243	2424	2243	2056	943
35°	1657	1704	1617	1704	1657	1038
45°	1167	624	722	624	1167	898
55°	664	231	244	231	664	592
65°	264	70	65	70	264	274
75°	74	14	12	14	74	84
85°	16	0	1	0	16	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°	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9
2.5°	2423.8	2421.4	2420.2	2422.6	2423.8	2428.6	2427.4	2429.7	2429.7	2431.0	2433.3
5°	2374.8	2373.5	2374.8	2374.8	2379.5	2384.3	2383.1	2386.7	2389.1	2395.1	2397.4
7.5°	2329.3	2329.3	2328.1	2332.9	2335.3	2342.5	2341.2	2347.2	2350.8	2356.8	2365.2
10°	2282.7	2282.7	2283.9	2287.4	2288.7	2299.4	2299.4	2307.8	2312.5	2318.6	2329.3
12.5°	2237.2	2237.2	2244.4	2242.0	2246.8	2255.2	2258.8	2267.1	2274.3	2286.3	2297.0
15°	2194.2	2194.2	2196.6	2202.5	2206.1	2216.9	2222.9	2232.5	2240.8	2252.8	2268.4
17.5°	2157.1	2155.9	2157.1	2164.3	2171.5	2181.0	2185.8	2197.8	2206.1	2221.7	2236.1
20°	2120.1	2122.5	2122.5	2128.4	2133.2	2145.2	2149.9	2163.1	2172.7	2187.0	2203.8
22.5°	2087.8	2086.6	2086.6	2095.0	2098.5	2109.3	2114.1	2126.0	2136.8	2148.8	2164.3
25°	2055.5	2053.1	2057.9	2059.1	2061.4	2073.4	2077.0	2085.4	2096.1	2106.9	2122.5
27.5°	2007.6	2005.3	2006.5	2011.2	2014.8	2024.4	2026.8	2035.2	2043.5	2053.1	2066.3
30°	1915.6	1913.2	1912.0	1920.4	1924.0	1931.1	1934.7	1949.1	1951.4	1962.2	1971.8
32.5°	1793.6	1792.4	1794.8	1802.0	1805.6	1815.2	1819.9	1828.3	1834.2	1840.3	1849.8
35°	1657.3	1654.9	1657.3	1664.5	1664.5	1672.9	1676.5	1680.0	1678.8	1680.0	1677.6
37.5°	1530.6	1529.3	1530.6	1534.1	1530.6	1534.1	1530.6	1523.4	1510.2	1495.9	1481.5
40°	1422.9	1424.1	1417.0	1421.8	1408.6	1406.2	1393.1	1375.1	1348.8	1320.1	1279.5
42.5°	1308.2	1304.6	1299.8	1302.2	1291.4	1283.0	1261.5	1238.8	1205.3	1157.5	1108.4
45°	1167.1	1165.9	1163.5	1162.3	1155.1	1146.7	1128.8	1102.5	1065.4	1016.4	957.8
47.5°	1029.5	1025.9	1025.9	1027.1	1018.8	1017.6	1003.2	980.5	948.2	900.4	839.4
50°	898.0	896.8	899.2	904.0	898.0	895.6	886.1	870.5	841.8	801.2	743.7
52.5°	779.6	778.4	780.8	786.8	784.4	786.8	777.2	765.3	746.1	706.7	656.5
55°	663.7	663.7	663.7	670.8	670.8	670.8	666.0	658.9	640.9	612.2	565.6
57.5°	542.9	544.1	551.2	552.4	551.2	553.7	552.4	545.2	533.3	513.0	477.1
60°	441.2	441.2	444.8	448.4	447.2	448.4	448.4	444.8	432.9	416.1	387.4
62.5°	349.2	352.7	350.3	352.7	357.5	352.7	350.3	348.0	339.6	328.8	304.9
65°	264.3	266.7	266.7	267.8	265.4	266.7	261.9	258.3	253.5	241.6	226.0
67.5°	200.9	200.9	200.9	200.9	199.7	198.5	197.3	193.7	185.4	180.6	163.8
70°	154.2	147.1	147.1	147.1	147.1	148.3	144.7	139.9	137.5	129.1	117.2
72.5°	102.8	105.2	102.8	102.8	100.5	101.6	96.9	94.4	92.1	87.3	80.1
75°	74.1	68.2	70.5	71.8	68.2	70.5	65.8	61.0	61.0	57.4	53.8
77.5°	47.8	46.7	47.8	49.0	47.8	46.7	44.2	41.8	41.8	40.7	37.1
80°	34.7	33.5	33.5	33.5	32.3	33.5	31.1	31.1	28.7	27.5	25.1
82.5°	22.7	22.7	21.5	22.7	21.5	22.7	19.1	19.1	19.1	17.9	15.6
85°	15.6	13.1	13.1	14.4	12.0	14.4	13.1	12.0	10.8	10.8	9.5
87.5°	7.2	8.4	7.2	8.4	7.2	7.2	8.4	7.2	7.2	4.8	4.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9
2.5°	2436.9	2438.1	2438.1	2442.9	2445.3	2446.5	2446.5	2456.1	2452.5	2454.9	2457.2
5°	2402.3	2409.4	2411.8	2411.8	2425.0	2429.7	2434.5	2445.3	2446.5	2453.7	2462.0
7.5°	2368.8	2377.1	2381.9	2392.7	2401.0	2409.4	2423.8	2431.0	2438.1	2447.7	2458.4
10°	2336.5	2346.1	2355.6	2364.0	2377.1	2387.9	2397.4	2414.2	2422.6	2435.7	2450.1
12.5°	2305.4	2318.6	2326.9	2341.2	2355.6	2365.2	2379.5	2395.1	2408.2	2421.4	2438.1
15°	2277.9	2293.5	2303.0	2318.6	2334.1	2347.2	2362.8	2381.9	2391.5	2407.0	2422.6
17.5°	2248.0	2264.8	2276.7	2291.0	2310.2	2324.5	2337.7	2356.8	2368.8	2385.5	2403.5
20°	2216.9	2233.7	2248.0	2262.3	2281.5	2295.8	2311.4	2330.5	2343.7	2360.4	2374.8
22.5°	2179.9	2195.4	2210.9	2227.6	2246.8	2258.8	2276.7	2293.5	2307.8	2323.3	2337.7
25°	2132.0	2151.2	2163.1	2178.6	2194.2	2207.3	2226.5	2243.2	2255.2	2269.5	2282.7
27.5°	2075.8	2090.2	2099.7	2112.9	2128.4	2140.4	2154.7	2171.5	2183.5	2196.6	2206.1
30°	1980.1	1993.3	2001.7	2011.2	2026.8	2037.6	2049.5	2065.0	2073.4	2083.0	2091.4
32.5°	1854.6	1865.4	1870.1	1877.3	1888.1	1898.8	1908.4	1921.6	1925.2	1931.1	1931.1
35°	1672.9	1675.2	1674.0	1676.5	1681.2	1687.2	1695.6	1703.9	1708.7	1708.7	1705.2
37.5°	1460.0	1445.7	1430.1	1418.2	1414.6	1412.2	1417.0	1420.5	1425.3	1427.7	1421.8
40°	1238.8	1206.5	1171.8	1140.7	1119.2	1109.7	1106.1	1108.4	1108.4	1116.8	1116.8
42.5°	1048.7	998.4	947.0	900.4	869.3	845.4	834.6	834.6	835.8	841.8	845.4
45°	890.8	827.4	767.7	716.3	673.2	642.1	627.8	624.2	623.0	625.4	633.7
47.5°	770.1	704.3	642.1	578.8	533.3	502.2	489.1	484.3	479.5	484.3	485.5
50°	675.6	607.4	541.7	478.3	430.5	402.9	386.2	379.0	377.8	377.8	380.3
52.5°	589.5	526.1	460.4	395.8	345.6	319.3	303.7	300.1	295.4	300.1	300.1
55°	508.2	444.8	380.3	319.3	277.4	249.9	235.6	230.8	228.4	232.0	232.0
57.5°	419.7	365.9	306.1	251.1	209.3	190.1	179.3	173.4	172.2	174.6	172.2
60°	344.4	298.9	247.5	197.3	165.0	144.7	136.3	133.9	131.5	133.9	133.9
62.5°	272.6	234.4	192.5	154.2	126.7	112.4	102.8	102.8	101.6	101.6	102.8
65°	202.1	172.2	142.3	110.0	88.5	77.7	70.5	70.5	69.3	70.5	69.3
67.5°	147.1	126.7	102.8	80.1	63.4	57.4	52.6	49.0	51.4	49.0	47.8
70°	107.6	90.9	74.1	61.0	49.0	43.1	39.5	38.2	35.9	35.9	35.9
72.5°	71.8	61.0	50.2	39.5	32.3	26.3	25.1	22.7	20.3	21.5	23.9
75°	47.8	40.7	35.9	28.7	21.5	21.5	14.4	14.4	12.0	14.4	10.8
77.5°	33.5	27.5	21.5	17.9	14.4	13.1	9.5	9.5	8.4	8.4	8.4
80°	23.9	20.3	15.6	13.1	9.5	9.5	8.4	7.2	6.0	6.0	7.2
82.5°	14.4	10.8	10.8	9.5	6.0	4.8	3.6	4.8	2.4	2.4	2.4
85°	8.4	7.2	6.0	3.6	2.4	2.4	1.2	0.0	1.2	1.2	0.0
87.5°	4.8	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°	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9
2.5°	2463.3	2462.0	2464.4	2464.4	2471.6	2470.4	2474.0	2474.0	2471.6	2472.8	2477.6
5°	2471.6	2475.2	2482.3	2488.4	2499.1	2503.9	2509.9	2515.9	2517.0	2520.6	2524.2
7.5°	2471.6	2483.6	2491.9	2502.7	2517.0	2525.4	2538.6	2549.3	2554.1	2560.1	2567.3
10°	2466.8	2478.8	2494.3	2506.3	2524.2	2537.4	2550.5	2567.3	2574.4	2584.0	2593.6
12.5°	2457.2	2470.4	2487.1	2502.7	2523.0	2535.0	2551.7	2567.3	2578.0	2591.2	2601.9
15°	2442.9	2458.4	2474.0	2489.5	2511.0	2525.4	2541.0	2558.9	2569.7	2584.0	2593.6
17.5°	2420.2	2436.9	2451.3	2465.6	2485.9	2502.7	2517.0	2533.8	2544.6	2556.5	2569.7
20°	2392.7	2408.2	2423.8	2435.7	2456.1	2470.4	2485.9	2501.5	2509.9	2512.3	2532.6
22.5°	2358.0	2368.8	2380.7	2399.9	2411.8	2425.0	2439.3	2453.7	2462.0	2475.2	2482.3
25°	2300.6	2311.4	2324.5	2332.9	2347.2	2358.0	2372.3	2387.9	2392.7	2402.3	2409.4
27.5°	2220.5	2226.5	2232.5	2239.6	2248.0	2254.0	2262.3	2269.5	2274.3	2279.1	2283.9
30°	2093.7	2093.7	2093.7	2089.0	2092.5	2096.1	2097.3	2096.1	2096.1	2095.0	2095.0
32.5°	1926.3	1916.8	1906.0	1896.5	1892.9	1888.1	1885.7	1882.1	1876.1	1872.5	1873.7
35°	1700.3	1678.8	1665.7	1653.7	1644.2	1637.0	1633.4	1629.8	1628.6	1623.8	1619.0
37.5°	1418.2	1402.6	1393.1	1385.9	1377.5	1370.3	1371.5	1372.7	1376.3	1373.9	1375.1
40°	1119.2	1115.6	1119.2	1110.8	1108.4	1110.8	1116.8	1125.2	1130.0	1134.8	1143.1
42.5°	851.4	857.3	865.7	865.7	869.3	874.1	881.2	894.4	901.6	909.9	919.5
45°	640.9	648.1	658.9	662.4	664.8	670.8	679.2	689.9	694.7	701.9	710.3
47.5°	493.9	498.6	504.6	510.6	516.5	519.0	527.3	527.3	533.3	538.1	540.5
50°	385.0	389.8	394.6	398.2	400.6	404.2	406.5	410.1	411.3	413.7	414.9
52.5°	301.3	307.3	307.3	309.7	313.3	316.9	315.7	316.9	318.0	318.0	321.6
55°	235.6	235.6	239.1	239.1	241.6	240.3	241.6	241.6	241.6	241.6	242.7
57.5°	175.8	177.0	180.6	178.2	177.0	179.3	177.0	179.3	178.2	180.6	177.0
60°	135.1	135.1	136.3	136.3	137.5	137.5	137.5	136.3	136.3	135.1	135.1
62.5°	101.6	102.8	104.0	102.8	102.8	102.8	101.6	101.6	100.5	99.2	99.2
65°	68.2	67.0	69.3	67.0	68.2	68.2	67.0	68.2	64.6	65.8	64.6
67.5°	49.0	47.8	46.7	47.8	46.7	45.4	45.4	46.7	47.8	44.2	44.2
70°	32.3	33.5	32.3	33.5	34.7	34.7	33.5	32.3	33.5	31.1	32.3
72.5°	20.3	20.3	20.3	20.3	20.3	21.5	21.5	21.5	19.1	19.1	17.9
75°	9.5	13.1	10.8	9.5	13.1	13.1	12.0	12.0	10.8	10.8	10.8
77.5°	9.5	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.0	7.2	6.0
80°	4.8	4.8	4.8	3.6	4.8	4.8	6.0	4.8	4.8	3.6	6.0
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: P245842

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9
2.5°	2476.4	2475.2	2476.4	2477.6	2476.4	2475.2	2476.4	2477.6	2472.8	2471.6	2474.0
5°	2529.0	2529.0	2531.4	2532.6	2531.4	2529.0	2529.0	2524.2	2520.6	2517.0	2515.9
7.5°	2574.4	2576.8	2579.2	2580.4	2579.2	2576.8	2574.4	2567.3	2560.1	2554.1	2549.3
10°	2601.9	2605.5	2610.3	2612.7	2610.3	2605.5	2601.9	2593.6	2584.0	2574.4	2567.3
12.5°	2613.9	2617.5	2623.5	2622.3	2623.5	2617.5	2613.9	2601.9	2591.2	2578.0	2567.3
15°	2605.5	2610.3	2616.3	2618.7	2616.3	2610.3	2605.5	2593.6	2584.0	2569.7	2558.9
17.5°	2579.2	2586.4	2590.0	2593.6	2590.0	2586.4	2579.2	2569.7	2556.5	2544.6	2533.8
20°	2543.3	2548.2	2552.9	2554.1	2552.9	2548.2	2543.3	2532.6	2512.3	2509.9	2501.5
22.5°	2491.9	2495.5	2506.3	2502.7	2506.3	2495.5	2491.9	2482.3	2475.2	2462.0	2453.7
25°	2417.8	2421.4	2422.6	2423.8	2422.6	2421.4	2417.8	2409.4	2402.3	2392.7	2387.9
27.5°	2289.9	2289.9	2292.2	2293.5	2292.2	2289.9	2289.9	2283.9	2279.1	2274.3	2269.5
30°	2096.1	2096.1	2096.1	2102.1	2096.1	2096.1	2096.1	2095.0	2095.0	2096.1	2096.1
32.5°	1872.5	1870.1	1867.8	1870.1	1867.8	1870.1	1872.5	1873.7	1872.5	1876.1	1882.1
35°	1619.0	1617.8	1621.4	1616.7	1621.4	1617.8	1619.0	1619.0	1623.8	1628.6	1629.8
37.5°	1376.3	1373.9	1378.7	1373.9	1378.7	1373.9	1376.3	1375.1	1373.9	1376.3	1372.7
40°	1145.5	1147.9	1147.9	1157.5	1147.9	1147.9	1145.5	1143.1	1134.8	1130.0	1125.2
42.5°	924.3	931.5	929.1	936.3	929.1	931.5	924.3	919.5	909.9	901.6	894.4
45°	715.0	719.9	719.9	722.2	719.9	719.9	715.0	710.3	701.9	694.7	689.9
47.5°	548.8	548.8	548.8	550.1	548.8	548.8	548.8	540.5	538.1	533.3	527.3
50°	417.3	418.5	419.7	420.9	419.7	418.5	417.3	414.9	413.7	411.3	410.1
52.5°	320.5	321.6	319.3	321.6	319.3	321.6	320.5	321.6	318.0	318.0	316.9
55°	242.7	241.6	242.7	243.9	242.7	241.6	242.7	242.7	241.6	241.6	241.6
57.5°	178.2	175.8	175.8	175.8	175.8	175.8	178.2	177.0	180.6	178.2	179.3
60°	132.7	133.9	133.9	135.1	133.9	133.9	132.7	135.1	135.1	136.3	136.3
62.5°	98.0	101.6	99.2	101.6	99.2	101.6	98.0	99.2	99.2	100.5	101.6
65°	63.4	63.4	63.4	64.6	63.4	63.4	63.4	64.6	65.8	64.6	68.2
67.5°	43.1	44.2	46.7	45.4	46.7	44.2	43.1	44.2	44.2	47.8	46.7
70°	34.7	31.1	31.1	34.7	31.1	31.1	34.7	32.3	31.1	33.5	32.3
72.5°	20.3	17.9	20.3	20.3	20.3	17.9	20.3	17.9	19.1	19.1	21.5
75°	10.8	9.5	8.4	12.0	8.4	9.5	10.8	10.8	10.8	10.8	12.0
77.5°	7.2	6.0	8.4	8.4	8.4	6.0	7.2	6.0	7.2	6.0	7.2
80°	3.6	4.8	3.6	6.0	3.6	4.8	3.6	6.0	3.6	4.8	4.8
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: P245842

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9
2.5°	2474.0	2470.4	2471.6	2464.4	2464.4	2462.0	2463.3	2457.2	2454.9	2452.5	2456.1
5°	2509.9	2503.9	2499.1	2488.4	2482.3	2475.2	2471.6	2462.0	2453.7	2446.5	2445.3
7.5°	2538.6	2525.4	2517.0	2502.7	2491.9	2483.6	2471.6	2458.4	2447.7	2438.1	2431.0
10°	2550.5	2537.4	2524.2	2506.3	2494.3	2478.8	2466.8	2450.1	2435.7	2422.6	2414.2
12.5°	2551.7	2535.0	2523.0	2502.7	2487.1	2470.4	2457.2	2438.1	2421.4	2408.2	2395.1
15°	2541.0	2525.4	2511.0	2489.5	2474.0	2458.4	2442.9	2422.6	2407.0	2391.5	2381.9
17.5°	2517.0	2502.7	2485.9	2465.6	2451.3	2436.9	2420.2	2403.5	2385.5	2368.8	2356.8
20°	2485.9	2470.4	2456.1	2435.7	2423.8	2408.2	2392.7	2374.8	2360.4	2343.7	2330.5
22.5°	2439.3	2425.0	2411.8	2399.9	2380.7	2368.8	2358.0	2337.7	2323.3	2307.8	2293.5
25°	2372.3	2358.0	2347.2	2332.9	2324.5	2311.4	2300.6	2282.7	2269.5	2255.2	2243.2
27.5°	2262.3	2254.0	2248.0	2239.6	2232.5	2226.5	2220.5	2206.1	2196.6	2183.5	2171.5
30°	2097.3	2096.1	2092.5	2089.0	2093.7	2093.7	2093.7	2091.4	2083.0	2073.4	2065.0
32.5°	1885.7	1888.1	1892.9	1896.5	1906.0	1916.8	1926.3	1931.1	1931.1	1925.2	1921.6
35°	1633.4	1637.0	1644.2	1653.7	1665.7	1678.8	1700.3	1705.2	1708.7	1708.7	1703.9
37.5°	1371.5	1370.3	1377.5	1385.9	1393.1	1402.6	1418.2	1421.8	1427.7	1425.3	1420.5
40°	1116.8	1110.8	1108.4	1110.8	1119.2	1115.6	1119.2	1116.8	1116.8	1108.4	1108.4
42.5°	881.2	874.1	869.3	865.7	865.7	857.3	851.4	845.4	841.8	835.8	834.6
45°	679.2	670.8	664.8	662.4	658.9	648.1	640.9	633.7	625.4	623.0	624.2
47.5°	527.3	519.0	516.5	510.6	504.6	498.6	493.9	485.5	484.3	479.5	484.3
50°	406.5	404.2	400.6	398.2	394.6	389.8	385.0	380.3	377.8	377.8	379.0
52.5°	315.7	316.9	313.3	309.7	307.3	307.3	301.3	300.1	300.1	295.4	300.1
55°	241.6	240.3	241.6	239.1	239.1	235.6	235.6	232.0	232.0	228.4	230.8
57.5°	177.0	179.3	177.0	178.2	180.6	177.0	175.8	172.2	174.6	172.2	173.4
60°	137.5	137.5	137.5	136.3	136.3	135.1	135.1	133.9	133.9	131.5	133.9
62.5°	101.6	102.8	102.8	102.8	104.0	102.8	101.6	102.8	101.6	101.6	102.8
65°	67.0	68.2	68.2	67.0	69.3	67.0	68.2	69.3	70.5	69.3	70.5
67.5°	45.4	45.4	46.7	47.8	46.7	47.8	49.0	47.8	49.0	51.4	49.0
70°	33.5	34.7	34.7	33.5	32.3	33.5	32.3	35.9	35.9	35.9	38.2
72.5°	21.5	21.5	20.3	20.3	20.3	20.3	20.3	23.9	21.5	20.3	22.7
75°	12.0	13.1	13.1	9.5	10.8	13.1	9.5	10.8	14.4	12.0	14.4
77.5°	7.2	7.2	7.2	7.2	7.2	7.2	9.5	8.4	8.4	8.4	9.5
80°	6.0	4.8	4.8	3.6	4.8	4.8	4.8	7.2	6.0	6.0	7.2
82.5°	2.4	2.4	1.2	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.8
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: P245842

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9
2.5°	2446.5	2446.5	2445.3	2442.9	2438.1	2438.1	2436.9	2433.3	2431.0	2429.7	2429.7
5°	2434.5	2429.7	2425.0	2411.8	2411.8	2409.4	2402.3	2397.4	2395.1	2389.1	2386.7
7.5°	2423.8	2409.4	2401.0	2392.7	2381.9	2377.1	2368.8	2365.2	2356.8	2350.8	2347.2
10°	2397.4	2387.9	2377.1	2364.0	2355.6	2346.1	2336.5	2329.3	2318.6	2312.5	2307.8
12.5°	2379.5	2365.2	2355.6	2341.2	2326.9	2318.6	2305.4	2297.0	2286.3	2274.3	2267.1
15°	2362.8	2347.2	2334.1	2318.6	2303.0	2293.5	2277.9	2268.4	2252.8	2240.8	2232.5
17.5°	2337.7	2324.5	2310.2	2291.0	2276.7	2264.8	2248.0	2236.1	2221.7	2206.1	2197.8
20°	2311.4	2295.8	2281.5	2262.3	2248.0	2233.7	2216.9	2203.8	2187.0	2172.7	2163.1
22.5°	2276.7	2258.8	2246.8	2227.6	2210.9	2195.4	2179.9	2164.3	2148.8	2136.8	2126.0
25°	2226.5	2207.3	2194.2	2178.6	2163.1	2151.2	2132.0	2122.5	2106.9	2096.1	2085.4
27.5°	2154.7	2140.4	2128.4	2112.9	2099.7	2090.2	2075.8	2066.3	2053.1	2043.5	2035.2
30°	2049.5	2037.6	2026.8	2011.2	2001.7	1993.3	1980.1	1971.8	1962.2	1951.4	1949.1
32.5°	1908.4	1898.8	1888.1	1877.3	1870.1	1865.4	1854.6	1849.8	1840.3	1834.2	1828.3
35°	1695.6	1687.2	1681.2	1676.5	1674.0	1675.2	1672.9	1677.6	1680.0	1678.8	1680.0
37.5°	1417.0	1412.2	1414.6	1418.2	1430.1	1445.7	1460.0	1481.5	1495.9	1510.2	1523.4
40°	1106.1	1109.7	1119.2	1140.7	1171.8	1206.5	1238.8	1279.5	1320.1	1348.8	1375.1
42.5°	834.6	845.4	869.3	900.4	947.0	998.4	1048.7	1108.4	1157.5	1205.3	1238.8
45°	627.8	642.1	673.2	716.3	767.7	827.4	890.8	957.8	1016.4	1065.4	1102.5
47.5°	489.1	502.2	533.3	578.8	642.1	704.3	770.1	839.4	900.4	948.2	980.5
50°	386.2	402.9	430.5	478.3	541.7	607.4	675.6	743.7	801.2	841.8	870.5
52.5°	303.7	319.3	345.6	395.8	460.4	526.1	589.5	656.5	706.7	746.1	765.3
55°	235.6	249.9	277.4	319.3	380.3	444.8	508.2	565.6	612.2	640.9	658.9
57.5°	179.3	190.1	209.3	251.1	306.1	365.9	419.7	477.1	513.0	533.3	545.2
60°	136.3	144.7	165.0	197.3	247.5	298.9	344.4	387.4	416.1	432.9	444.8
62.5°	102.8	112.4	126.7	154.2	192.5	234.4	272.6	304.9	328.8	339.6	348.0
65°	70.5	77.7	88.5	110.0	142.3	172.2	202.1	226.0	241.6	253.5	258.3
67.5°	52.6	57.4	63.4	80.1	102.8	126.7	147.1	163.8	180.6	185.4	193.7
70°	39.5	43.1	49.0	61.0	74.1	90.9	107.6	117.2	129.1	137.5	139.9
72.5°	25.1	26.3	32.3	39.5	50.2	61.0	71.8	80.1	87.3	92.1	94.4
75°	14.4	21.5	21.5	28.7	35.9	40.7	47.8	53.8	57.4	61.0	61.0
77.5°	9.5	13.1	14.4	17.9	21.5	27.5	33.5	37.1	40.7	41.8	41.8
80°	8.4	9.5	9.5	13.1	15.6	20.3	23.9	25.1	27.5	28.7	31.1
82.5°	3.6	4.8	6.0	9.5	10.8	10.8	14.4	15.6	17.9	19.1	19.1
85°	1.2	2.4	2.4	3.6	6.0	7.2	8.4	9.5	10.8	10.8	12.0
87.5°	1.2	1.2	0.0	1.2	2.4	2.4	4.8	4.8	4.8	7.2	7.2
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: P245842

CATALOG NUMBER: LD8B40D010 ER8B40850 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9	2448.9
2.5°	2427.4	2428.6	2423.8	2422.6	2420.2	2421.4	2423.8
5°	2383.1	2384.3	2379.5	2374.8	2374.8	2373.5	2374.8
7.5°	2341.2	2342.5	2335.3	2332.9	2328.1	2329.3	2329.3
10°	2299.4	2299.4	2288.7	2287.4	2283.9	2282.7	2282.7
12.5°	2258.8	2255.2	2246.8	2242.0	2244.4	2237.2	2237.2
15°	2222.9	2216.9	2206.1	2202.5	2196.6	2194.2	2194.2
17.5°	2185.8	2181.0	2171.5	2164.3	2157.1	2155.9	2157.1
20°	2149.9	2145.2	2133.2	2128.4	2122.5	2122.5	2120.1
22.5°	2114.1	2109.3	2098.5	2095.0	2086.6	2086.6	2087.8
25°	2077.0	2073.4	2061.4	2059.1	2057.9	2053.1	2055.5
27.5°	2026.8	2024.4	2014.8	2011.2	2006.5	2005.3	2007.6
30°	1934.7	1931.1	1924.0	1920.4	1912.0	1913.2	1915.6
32.5°	1819.9	1815.2	1805.6	1802.0	1794.8	1792.4	1793.6
35°	1676.5	1672.9	1664.5	1664.5	1657.3	1654.9	1657.3
37.5°	1530.6	1534.1	1530.6	1534.1	1530.6	1529.3	1530.6
40°	1393.1	1406.2	1408.6	1421.8	1417.0	1424.1	1422.9
42.5°	1261.5	1283.0	1291.4	1302.2	1299.8	1304.6	1308.2
45°	1128.8	1146.7	1155.1	1162.3	1163.5	1165.9	1167.1
47.5°	1003.2	1017.6	1018.8	1027.1	1025.9	1025.9	1029.5
50°	886.1	895.6	898.0	904.0	899.2	896.8	898.0
52.5°	777.2	786.8	784.4	786.8	780.8	778.4	779.6
55°	666.0	670.8	670.8	670.8	663.7	663.7	663.7
57.5°	552.4	553.7	551.2	552.4	551.2	544.1	542.9
60°	448.4	448.4	447.2	448.4	444.8	441.2	441.2
62.5°	350.3	352.7	357.5	352.7	350.3	352.7	349.2
65°	261.9	266.7	265.4	267.8	266.7	266.7	264.3
67.5°	197.3	198.5	199.7	200.9	200.9	200.9	200.9
70°	144.7	148.3	147.1	147.1	147.1	147.1	154.2
72.5°	96.9	101.6	100.5	102.8	102.8	105.2	102.8
75°	65.8	70.5	68.2	71.8	70.5	68.2	74.1
77.5°	44.2	46.7	47.8	49.0	47.8	46.7	47.8
80°	31.1	33.5	32.3	33.5	33.5	33.5	34.7
82.5°	19.1	22.7	21.5	22.7	21.5	22.7	22.7
85°	13.1	14.4	12.0	14.4	13.1	13.1	15.6
87.5°	8.4	7.2	7.2	8.4	7.2	8.4	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)