

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: P245980

Luminaire Tested: **LD8B40D010 ER8B40840 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245980  
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 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4326.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 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

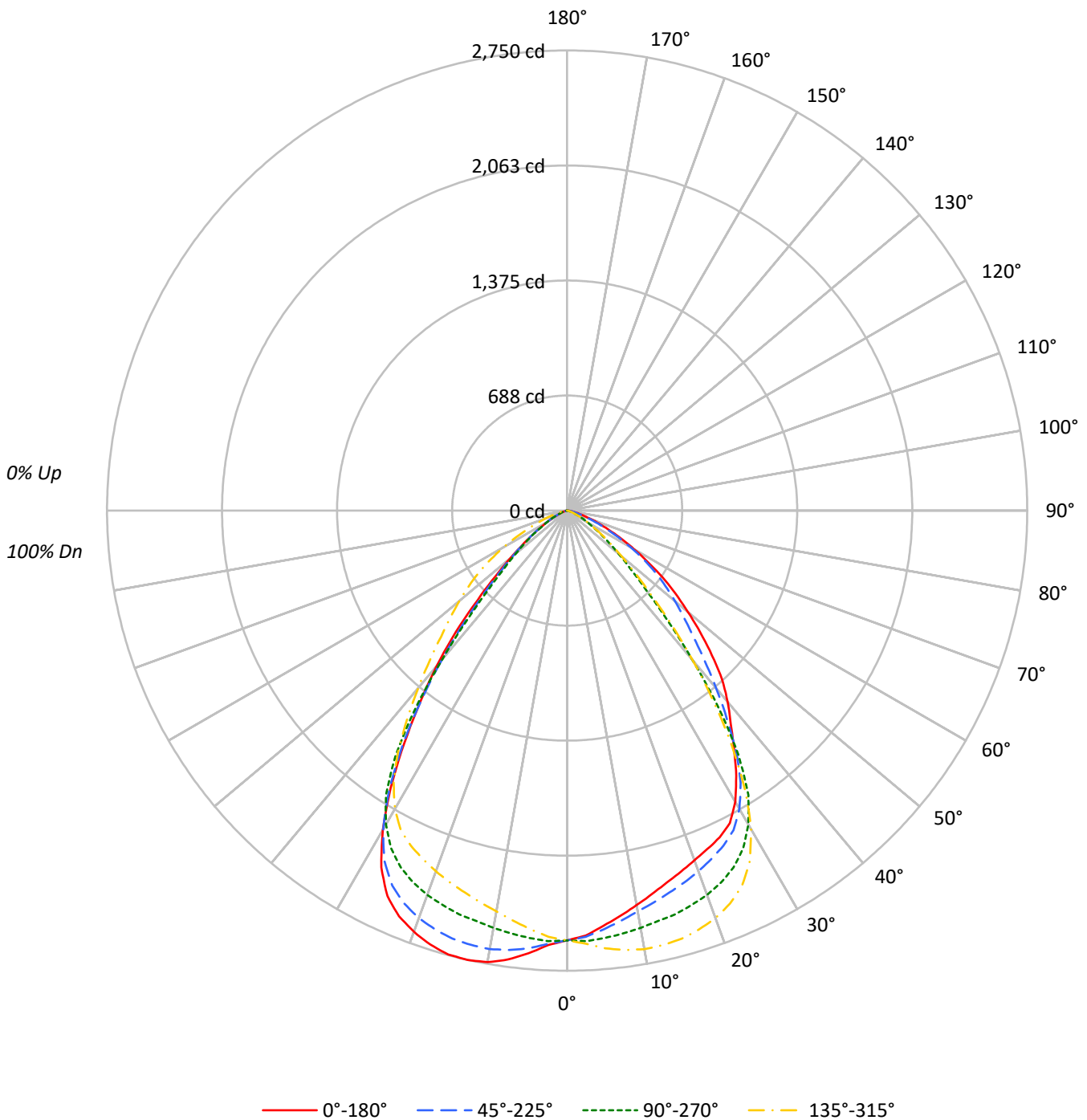
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	79194	79194	79194	79194
5°	77091	79379	82214	79379
10°	74958	79276	85795	79276
15°	73461	79746	87673	79746
20°	72962	80204	87899	80204
25°	73342	80042	86486	80042
30°	71530	77113	78499	77113
35°	65429	67266	63822	67266
40°	60071	46791	48864	46791
45°	53373	28547	33030	28547
50°	45176	19069	21175	19069
55°	37418	13010	13752	13010
60°	28536	8659	8739	8659
65°	20219	5399	4940	5399
70°	14588	3615	3282	3615
75°	9257	1799	1489	1799
80°	6464	1332	1101	1332
85°	5767	0	425	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.4	5.7
10°-20°	707.9	16.4
20°-30°	1071.9	24.8
30°-40°	1074.3	24.8
40°-50°	674.6	15.6
50°-60°	359.5	8.3
60°-70°	147.8	3.4
70°-80°	39.1	0.9
80°-90°	6.6	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°	2024.2	46.8
0°-40°	3098.4	71.6
0°-60°	4132.5	95.5
0°-90°	4326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4326.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2568	2568	2568	2568	2568	
5°	2490	2564	2656	2564	2490	235
15°	2301	2498	2746	2498	2301	651
25°	2156	2352	2542	2352	2156	989
35°	1738	1787	1695	1787	1738	1089
45°	1224	655	757	655	1224	941
55°	696	242	256	242	696	621
65°	277	74	68	74	277	287
75°	78	15	12	15	78	88
85°	16	0	1	0	16	18
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°	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2
2.5°	2541.9	2539.4	2538.1	2540.6	2541.9	2546.9	2545.7	2548.1	2548.1	2549.4	2551.9
5°	2490.5	2489.2	2490.5	2490.5	2495.5	2500.5	2499.3	2503.0	2505.5	2511.8	2514.3
7.5°	2442.8	2442.8	2441.5	2446.6	2449.1	2456.6	2455.3	2461.6	2465.4	2471.6	2480.4
10°	2393.9	2393.9	2395.1	2398.9	2400.2	2411.5	2411.5	2420.2	2425.2	2431.5	2442.8
12.5°	2346.3	2346.3	2353.8	2351.3	2356.3	2365.0	2368.8	2377.6	2385.1	2397.7	2409.0
15°	2301.1	2301.1	2303.6	2309.9	2313.6	2324.9	2331.2	2341.3	2350.0	2362.6	2378.9
17.5°	2262.2	2261.0	2262.2	2269.8	2277.3	2287.3	2292.3	2304.9	2313.6	2329.9	2345.0
20°	2223.4	2225.9	2225.9	2232.1	2237.1	2249.7	2254.7	2268.5	2278.5	2293.6	2311.2
22.5°	2189.5	2188.3	2188.3	2197.0	2200.8	2212.1	2217.1	2229.6	2240.9	2253.5	2269.8
25°	2155.6	2153.1	2158.2	2159.4	2161.9	2174.4	2178.2	2187.0	2198.3	2209.6	2225.9
27.5°	2105.5	2103.0	2104.2	2109.2	2113.0	2123.0	2125.5	2134.3	2143.1	2153.1	2166.9
30°	2008.9	2006.4	2005.2	2014.0	2017.7	2025.2	2029.0	2044.0	2046.5	2057.8	2067.8
32.5°	1881.0	1879.8	1882.3	1889.8	1893.5	1903.6	1908.6	1917.4	1923.6	1929.9	1939.9
35°	1738.1	1735.5	1738.1	1745.6	1745.6	1754.4	1758.1	1761.9	1760.6	1761.9	1759.4
37.5°	1605.2	1603.9	1605.2	1608.9	1605.2	1608.9	1605.2	1597.6	1583.8	1568.8	1553.7
40°	1492.3	1493.5	1486.0	1491.0	1477.2	1474.7	1460.9	1442.1	1414.5	1384.4	1341.8
42.5°	1371.9	1368.1	1363.1	1365.6	1354.4	1345.5	1323.0	1299.2	1264.0	1213.9	1162.4
45°	1223.9	1222.7	1220.2	1218.9	1211.4	1202.6	1183.8	1156.2	1117.3	1065.9	1004.4
47.5°	1079.7	1075.9	1075.9	1077.2	1068.4	1067.2	1052.1	1028.3	994.4	944.3	880.3
50°	941.7	940.5	943.0	948.0	941.7	939.3	929.2	912.9	882.8	840.2	780.0
52.5°	817.6	816.4	818.9	825.1	822.6	825.1	815.1	802.6	782.5	741.1	688.5
55°	696.0	696.0	696.0	703.5	703.5	703.5	698.5	691.0	672.1	642.1	593.2
57.5°	569.3	570.6	578.1	579.3	578.1	580.6	579.3	571.8	559.3	538.0	500.4
60°	462.7	462.7	466.5	470.3	469.0	470.3	470.3	466.5	454.0	436.4	406.3
62.5°	366.2	369.9	367.4	369.9	374.9	369.9	367.4	364.9	356.2	344.8	319.8
65°	277.1	279.7	279.7	280.9	278.4	279.7	274.6	270.9	265.9	253.3	237.0
67.5°	210.7	210.7	210.7	210.7	209.4	208.2	206.9	203.2	194.4	189.4	171.8
70°	161.8	154.2	154.2	154.2	154.2	155.5	151.8	146.7	144.2	135.4	122.9
72.5°	107.8	110.4	107.8	107.8	105.3	106.6	101.6	99.1	96.6	91.6	84.0
75°	77.7	71.5	74.0	75.3	71.5	74.0	69.0	64.0	64.0	60.2	56.4
77.5°	50.2	48.9	50.2	51.4	50.2	48.9	46.4	43.9	43.9	42.6	38.9
80°	36.4	35.1	35.1	35.1	33.9	35.1	32.6	32.6	30.1	28.9	26.3
82.5°	23.8	23.8	22.6	23.8	22.6	23.8	20.1	20.1	20.1	18.8	16.3
85°	16.3	13.8	13.8	15.1	12.5	15.1	13.8	12.5	11.3	11.3	10.0
87.5°	7.5	8.8	7.5	8.8	7.5	7.5	8.8	7.5	7.5	5.0	5.0
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°	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2
2.5°	2555.7	2556.9	2556.9	2562.0	2564.4	2565.7	2565.7	2575.7	2572.0	2574.5	2577.0
5°	2519.3	2526.8	2529.3	2529.3	2543.1	2548.1	2553.1	2564.4	2565.7	2573.2	2582.0
7.5°	2484.2	2493.0	2498.0	2509.3	2518.0	2526.8	2541.9	2549.4	2556.9	2567.0	2578.2
10°	2450.3	2460.4	2470.4	2479.2	2493.0	2504.3	2514.3	2531.8	2540.6	2554.4	2569.4
12.5°	2417.7	2431.5	2440.3	2455.3	2470.4	2480.4	2495.5	2511.8	2525.6	2539.4	2556.9
15°	2388.9	2405.2	2415.2	2431.5	2447.8	2461.6	2477.9	2498.0	2508.0	2524.3	2540.6
17.5°	2357.5	2375.1	2387.7	2402.7	2422.8	2437.8	2451.6	2471.6	2484.2	2501.7	2520.6
20°	2324.9	2342.5	2357.5	2372.6	2392.7	2407.7	2424.0	2444.1	2457.9	2475.4	2490.5
22.5°	2286.1	2302.4	2318.6	2336.2	2356.3	2368.8	2387.7	2405.2	2420.2	2436.5	2451.6
25°	2235.9	2256.0	2268.5	2284.8	2301.1	2314.9	2335.0	2352.5	2365.0	2380.1	2393.9
27.5°	2177.0	2192.0	2202.0	2215.8	2232.1	2244.7	2259.7	2277.3	2289.8	2303.6	2313.6
30°	2076.6	2090.5	2099.2	2109.2	2125.5	2136.9	2149.4	2165.7	2174.4	2184.5	2193.3
32.5°	1944.9	1956.2	1961.3	1968.8	1980.1	1991.3	2001.4	2015.2	2019.0	2025.2	2025.2
35°	1754.4	1756.9	1755.6	1758.1	1763.2	1769.4	1778.2	1786.9	1792.0	1792.0	1788.2
37.5°	1531.1	1516.1	1499.8	1487.3	1483.5	1481.0	1486.0	1489.7	1494.8	1497.3	1491.0
40°	1299.2	1265.3	1228.9	1196.3	1173.7	1163.7	1160.0	1162.4	1162.4	1171.2	1171.2
42.5°	1099.8	1047.1	993.2	944.3	911.6	886.6	875.3	875.3	876.5	882.8	886.6
45°	934.3	867.8	805.1	751.2	706.0	673.4	658.4	654.6	653.4	655.8	664.6
47.5°	807.6	738.6	673.4	607.0	559.3	526.7	512.9	507.9	502.8	507.9	509.1
50°	708.5	637.0	568.1	501.6	451.4	422.6	405.0	397.5	396.3	396.3	398.8
52.5°	618.2	551.8	482.8	415.1	362.4	334.8	318.5	314.8	309.7	314.8	314.8
55°	532.9	466.5	398.8	334.8	290.9	262.1	247.0	242.0	239.5	243.3	243.3
57.5°	440.2	383.7	321.1	263.3	219.5	199.4	188.1	181.8	180.6	183.1	180.6
60°	361.2	313.5	259.6	206.9	173.1	151.8	143.0	140.4	137.9	140.4	140.4
62.5°	285.9	245.8	201.9	161.8	132.9	117.9	107.8	107.8	106.6	106.6	107.8
65°	211.9	180.6	149.2	115.4	92.8	81.5	74.0	74.0	72.7	74.0	72.7
67.5°	154.2	132.9	107.8	84.0	66.5	60.2	55.2	51.4	53.9	51.4	50.2
70°	112.9	95.3	77.7	64.0	51.4	45.2	41.4	40.1	37.6	37.6	37.6
72.5°	75.3	64.0	52.6	41.4	33.9	27.6	26.3	23.8	21.3	22.6	25.1
75°	50.2	42.6	37.6	30.1	22.6	22.6	15.1	15.1	12.5	15.1	11.3
77.5°	35.1	28.9	22.6	18.8	15.1	13.8	10.0	10.0	8.8	8.8	8.8
80°	25.1	21.3	16.3	13.8	10.0	10.0	8.8	7.5	6.2	6.2	7.5
82.5°	15.1	11.3	11.3	10.0	6.2	5.0	3.8	5.0	2.5	2.5	2.5
85°	8.8	7.5	6.2	3.8	2.5	2.5	1.2	0.0	1.2	1.2	0.0
87.5°	5.0	2.5	2.5	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.5
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2
2.5°	2583.3	2582.0	2584.5	2584.5	2592.1	2590.8	2594.5	2594.5	2592.1	2593.3	2598.3
5°	2592.1	2595.8	2603.3	2609.6	2620.9	2625.9	2632.2	2638.5	2639.7	2643.5	2647.2
7.5°	2592.1	2604.6	2613.4	2624.6	2639.7	2648.5	2662.3	2673.6	2678.6	2684.8	2692.3
10°	2587.0	2599.5	2615.9	2628.4	2647.2	2661.0	2674.8	2692.3	2699.9	2709.9	2720.0
12.5°	2577.0	2590.8	2608.3	2624.6	2645.9	2658.5	2676.0	2692.3	2703.6	2717.4	2728.7
15°	2562.0	2578.2	2594.5	2610.8	2633.4	2648.5	2664.8	2683.6	2694.9	2709.9	2720.0
17.5°	2538.1	2555.7	2570.7	2585.8	2607.1	2624.6	2639.7	2657.2	2668.6	2681.1	2694.9
20°	2509.3	2525.6	2541.9	2554.4	2575.7	2590.8	2607.1	2623.4	2632.2	2634.7	2656.0
22.5°	2472.9	2484.2	2496.7	2516.8	2529.3	2543.1	2558.2	2573.2	2582.0	2595.8	2603.3
25°	2412.7	2424.0	2437.8	2446.6	2461.6	2472.9	2487.9	2504.3	2509.3	2519.3	2526.8
27.5°	2328.7	2335.0	2341.3	2348.7	2357.5	2363.8	2372.6	2380.1	2385.1	2390.1	2395.1
30°	2195.7	2195.7	2195.7	2190.7	2194.5	2198.3	2199.5	2198.3	2198.3	2197.0	2197.0
32.5°	2020.2	2010.2	1998.9	1988.9	1985.1	1980.1	1977.6	1973.8	1967.6	1963.8	1965.0
35°	1783.2	1760.6	1746.8	1734.3	1724.3	1716.8	1713.0	1709.2	1708.0	1703.0	1697.9
37.5°	1487.3	1471.0	1460.9	1453.4	1444.6	1437.1	1438.3	1439.6	1443.3	1440.9	1442.1
40°	1173.7	1170.0	1173.7	1165.0	1162.4	1165.0	1171.2	1180.0	1185.1	1190.1	1198.8
42.5°	892.9	899.1	907.9	907.9	911.6	916.7	924.2	938.0	945.5	954.3	964.3
45°	672.1	679.7	691.0	694.7	697.2	703.5	712.3	723.6	728.6	736.1	744.9
47.5°	517.9	522.9	529.2	535.5	541.7	544.2	553.0	553.0	559.3	564.3	566.8
50°	403.8	408.8	413.8	417.6	420.1	423.9	426.3	430.1	431.4	433.9	435.1
52.5°	316.0	322.3	322.3	324.8	328.5	332.3	331.1	332.3	333.5	333.5	337.3
55°	247.0	247.0	250.8	250.8	253.3	252.0	253.3	253.3	253.3	253.3	254.6
57.5°	184.3	185.6	189.4	186.9	185.6	188.1	185.6	188.1	186.9	189.4	185.6
60°	141.7	141.7	143.0	143.0	144.2	144.2	144.2	143.0	143.0	141.7	141.7
62.5°	106.6	107.8	109.1	107.8	107.8	107.8	106.6	106.6	105.3	104.1	104.1
65°	71.5	70.2	72.7	70.2	71.5	71.5	70.2	71.5	67.7	69.0	67.7
67.5°	51.4	50.2	48.9	50.2	48.9	47.6	47.6	48.9	50.2	46.4	46.4
70°	33.9	35.1	33.9	35.1	36.4	36.4	35.1	33.9	35.1	32.6	33.9
72.5°	21.3	21.3	21.3	21.3	21.3	22.6	22.6	22.6	20.1	20.1	18.8
75°	10.0	13.8	11.3	10.0	13.8	13.8	12.5	12.5	11.3	11.3	11.3
77.5°	10.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.2	7.5	6.2
80°	5.0	5.0	5.0	3.8	5.0	5.0	6.2	5.0	5.0	3.8	6.2
82.5°	2.5	2.5	2.5	0.0	1.2	2.5	2.5	1.2	2.5	2.5	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: P245980

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2
2.5°	2597.1	2595.8	2597.1	2598.3	2597.1	2595.8	2597.1	2598.3	2593.3	2592.1	2594.5
5°	2652.2	2652.2	2654.7	2656.0	2654.7	2652.2	2652.2	2647.2	2643.5	2639.7	2638.5
7.5°	2699.9	2702.4	2704.9	2706.1	2704.9	2702.4	2699.9	2692.3	2684.8	2678.6	2673.6
10°	2728.7	2732.5	2737.5	2740.0	2737.5	2732.5	2728.7	2720.0	2709.9	2699.9	2692.3
12.5°	2741.3	2745.0	2751.3	2750.1	2751.3	2745.0	2741.3	2728.7	2717.4	2703.6	2692.3
15°	2732.5	2737.5	2743.8	2746.3	2743.8	2737.5	2732.5	2720.0	2709.9	2694.9	2683.6
17.5°	2704.9	2712.4	2716.2	2720.0	2716.2	2712.4	2704.9	2694.9	2681.1	2668.6	2657.2
20°	2667.3	2672.3	2677.3	2678.6	2677.3	2672.3	2667.3	2656.0	2634.7	2632.2	2623.4
22.5°	2613.4	2617.1	2628.4	2624.6	2628.4	2617.1	2613.4	2603.3	2595.8	2582.0	2573.2
25°	2535.6	2539.4	2540.6	2541.9	2540.6	2539.4	2535.6	2526.8	2519.3	2509.3	2504.3
27.5°	2401.4	2401.4	2403.9	2405.2	2403.9	2401.4	2401.4	2395.1	2390.1	2385.1	2380.1
30°	2198.3	2198.3	2198.3	2204.6	2198.3	2198.3	2198.3	2197.0	2197.0	2198.3	2198.3
32.5°	1963.8	1961.3	1958.8	1961.3	1958.8	1961.3	1963.8	1965.0	1963.8	1967.6	1973.8
35°	1697.9	1696.7	1700.4	1695.4	1700.4	1696.7	1697.9	1697.9	1703.0	1708.0	1709.2
37.5°	1443.3	1440.9	1445.9	1440.9	1445.9	1440.9	1443.3	1442.1	1440.9	1443.3	1439.6
40°	1201.4	1203.8	1203.8	1213.9	1203.8	1203.8	1201.4	1198.8	1190.1	1185.1	1180.0
42.5°	969.3	976.9	974.4	981.9	974.4	976.9	969.3	964.3	954.3	945.5	938.0
45°	749.9	754.9	754.9	757.4	754.9	754.9	749.9	744.9	736.1	728.6	723.6
47.5°	575.6	575.6	575.6	576.9	575.6	575.6	575.6	566.8	564.3	559.3	553.0
50°	437.7	438.9	440.2	441.4	440.2	438.9	437.7	435.1	433.9	431.4	430.1
52.5°	336.1	337.3	334.8	337.3	334.8	337.3	336.1	337.3	333.5	333.5	332.3
55°	254.6	253.3	254.6	255.8	254.6	253.3	254.6	254.6	253.3	253.3	253.3
57.5°	186.9	184.3	184.3	184.3	184.3	184.3	186.9	185.6	189.4	186.9	188.1
60°	139.2	140.4	140.4	141.7	140.4	140.4	139.2	141.7	141.7	143.0	143.0
62.5°	102.8	106.6	104.1	106.6	104.1	106.6	102.8	104.1	104.1	105.3	106.6
65°	66.5	66.5	66.5	67.7	66.5	66.5	66.5	67.7	69.0	67.7	71.5
67.5°	45.2	46.4	48.9	47.6	48.9	46.4	45.2	46.4	46.4	50.2	48.9
70°	36.4	32.6	32.6	36.4	32.6	32.6	36.4	33.9	32.6	35.1	33.9
72.5°	21.3	18.8	21.3	21.3	21.3	18.8	21.3	18.8	20.1	20.1	22.6
75°	11.3	10.0	8.8	12.5	8.8	10.0	11.3	11.3	11.3	11.3	12.5
77.5°	7.5	6.2	8.8	8.8	8.8	6.2	7.5	6.2	7.5	6.2	7.5
80°	3.8	5.0	3.8	6.2	3.8	5.0	3.8	6.2	3.8	5.0	5.0
82.5°	1.2	2.5	2.5	2.5	2.5	2.5	1.2	1.2	2.5	2.5	1.2
85°	0.0	2.5	1.2	1.2	1.2	2.5	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: P245980

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2
2.5°	2594.5	2590.8	2592.1	2584.5	2584.5	2582.0	2583.3	2577.0	2574.5	2572.0	2575.7
5°	2632.2	2625.9	2620.9	2609.6	2603.3	2595.8	2592.1	2582.0	2573.2	2565.7	2564.4
7.5°	2662.3	2648.5	2639.7	2624.6	2613.4	2604.6	2592.1	2578.2	2567.0	2556.9	2549.4
10°	2674.8	2661.0	2647.2	2628.4	2615.9	2599.5	2587.0	2569.4	2554.4	2540.6	2531.8
12.5°	2676.0	2658.5	2645.9	2624.6	2608.3	2590.8	2577.0	2556.9	2539.4	2525.6	2511.8
15°	2664.8	2648.5	2633.4	2610.8	2594.5	2578.2	2562.0	2540.6	2524.3	2508.0	2498.0
17.5°	2639.7	2624.6	2607.1	2585.8	2570.7	2555.7	2538.1	2520.6	2501.7	2484.2	2471.6
20°	2607.1	2590.8	2575.7	2554.4	2541.9	2525.6	2509.3	2490.5	2475.4	2457.9	2444.1
22.5°	2558.2	2543.1	2529.3	2516.8	2496.7	2484.2	2472.9	2451.6	2436.5	2420.2	2405.2
25°	2487.9	2472.9	2461.6	2446.6	2437.8	2424.0	2412.7	2393.9	2380.1	2365.0	2352.5
27.5°	2372.6	2363.8	2357.5	2348.7	2341.3	2335.0	2328.7	2313.6	2303.6	2289.8	2277.3
30°	2199.5	2198.3	2194.5	2190.7	2195.7	2195.7	2195.7	2193.3	2184.5	2174.4	2165.7
32.5°	1977.6	1980.1	1985.1	1988.9	1998.9	2010.2	2020.2	2025.2	2025.2	2019.0	2015.2
35°	1713.0	1716.8	1724.3	1734.3	1746.8	1760.6	1783.2	1788.2	1792.0	1792.0	1786.9
37.5°	1438.3	1437.1	1444.6	1453.4	1460.9	1471.0	1487.3	1491.0	1497.3	1494.8	1489.7
40°	1171.2	1165.0	1162.4	1165.0	1173.7	1170.0	1173.7	1171.2	1171.2	1162.4	1162.4
42.5°	924.2	916.7	911.6	907.9	907.9	899.1	892.9	886.6	882.8	876.5	875.3
45°	712.3	703.5	697.2	694.7	691.0	679.7	672.1	664.6	655.8	653.4	654.6
47.5°	553.0	544.2	541.7	535.5	529.2	522.9	517.9	509.1	507.9	502.8	507.9
50°	426.3	423.9	420.1	417.6	413.8	408.8	403.8	398.8	396.3	396.3	397.5
52.5°	331.1	332.3	328.5	324.8	322.3	322.3	316.0	314.8	314.8	309.7	314.8
55°	253.3	252.0	253.3	250.8	250.8	247.0	247.0	243.3	243.3	239.5	242.0
57.5°	185.6	188.1	185.6	186.9	189.4	185.6	184.3	180.6	183.1	180.6	181.8
60°	144.2	144.2	144.2	143.0	143.0	141.7	141.7	140.4	140.4	137.9	140.4
62.5°	106.6	107.8	107.8	107.8	109.1	107.8	106.6	107.8	106.6	106.6	107.8
65°	70.2	71.5	71.5	70.2	72.7	70.2	71.5	72.7	74.0	72.7	74.0
67.5°	47.6	47.6	48.9	50.2	48.9	50.2	51.4	50.2	51.4	53.9	51.4
70°	35.1	36.4	36.4	35.1	33.9	35.1	33.9	37.6	37.6	37.6	40.1
72.5°	22.6	22.6	21.3	21.3	21.3	21.3	21.3	25.1	22.6	21.3	23.8
75°	12.5	13.8	13.8	10.0	11.3	13.8	10.0	11.3	15.1	12.5	15.1
77.5°	7.5	7.5	7.5	7.5	7.5	7.5	10.0	8.8	8.8	8.8	10.0
80°	6.2	5.0	5.0	3.8	5.0	5.0	5.0	7.5	6.2	6.2	7.5
82.5°	2.5	2.5	1.2	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0
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	2.5	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: P245980

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2
2.5°	2565.7	2565.7	2564.4	2562.0	2556.9	2556.9	2555.7	2551.9	2549.4	2548.1	2548.1
5°	2553.1	2548.1	2543.1	2529.3	2529.3	2526.8	2519.3	2514.3	2511.8	2505.5	2503.0
7.5°	2541.9	2526.8	2518.0	2509.3	2498.0	2493.0	2484.2	2480.4	2471.6	2465.4	2461.6
10°	2514.3	2504.3	2493.0	2479.2	2470.4	2460.4	2450.3	2442.8	2431.5	2425.2	2420.2
12.5°	2495.5	2480.4	2470.4	2455.3	2440.3	2431.5	2417.7	2409.0	2397.7	2385.1	2377.6
15°	2477.9	2461.6	2447.8	2431.5	2415.2	2405.2	2388.9	2378.9	2362.6	2350.0	2341.3
17.5°	2451.6	2437.8	2422.8	2402.7	2387.7	2375.1	2357.5	2345.0	2329.9	2313.6	2304.9
20°	2424.0	2407.7	2392.7	2372.6	2357.5	2342.5	2324.9	2311.2	2293.6	2278.5	2268.5
22.5°	2387.7	2368.8	2356.3	2336.2	2318.6	2302.4	2286.1	2269.8	2253.5	2240.9	2229.6
25°	2335.0	2314.9	2301.1	2284.8	2268.5	2256.0	2235.9	2225.9	2209.6	2198.3	2187.0
27.5°	2259.7	2244.7	2232.1	2215.8	2202.0	2192.0	2177.0	2166.9	2153.1	2143.1	2134.3
30°	2149.4	2136.9	2125.5	2109.2	2099.2	2090.5	2076.6	2067.8	2057.8	2046.5	2044.0
32.5°	2001.4	1991.3	1980.1	1968.8	1961.3	1956.2	1944.9	1939.9	1929.9	1923.6	1917.4
35°	1778.2	1769.4	1763.2	1758.1	1755.6	1756.9	1754.4	1759.4	1761.9	1760.6	1761.9
37.5°	1486.0	1481.0	1483.5	1487.3	1499.8	1516.1	1531.1	1553.7	1568.8	1583.8	1597.6
40°	1160.0	1163.7	1173.7	1196.3	1228.9	1265.3	1299.2	1341.8	1384.4	1414.5	1442.1
42.5°	875.3	886.6	911.6	944.3	993.2	1047.1	1099.8	1162.4	1213.9	1264.0	1299.2
45°	658.4	673.4	706.0	751.2	805.1	867.8	934.3	1004.4	1065.9	1117.3	1156.2
47.5°	512.9	526.7	559.3	607.0	673.4	738.6	807.6	880.3	944.3	994.4	1028.3
50°	405.0	422.6	451.4	501.6	568.1	637.0	708.5	780.0	840.2	882.8	912.9
52.5°	318.5	334.8	362.4	415.1	482.8	551.8	618.2	688.5	741.1	782.5	802.6
55°	247.0	262.1	290.9	334.8	398.8	466.5	532.9	593.2	642.1	672.1	691.0
57.5°	188.1	199.4	219.5	263.3	321.1	383.7	440.2	500.4	538.0	559.3	571.8
60°	143.0	151.8	173.1	206.9	259.6	313.5	361.2	406.3	436.4	454.0	466.5
62.5°	107.8	117.9	132.9	161.8	201.9	245.8	285.9	319.8	344.8	356.2	364.9
65°	74.0	81.5	92.8	115.4	149.2	180.6	211.9	237.0	253.3	265.9	270.9
67.5°	55.2	60.2	66.5	84.0	107.8	132.9	154.2	171.8	189.4	194.4	203.2
70°	41.4	45.2	51.4	64.0	77.7	95.3	112.9	122.9	135.4	144.2	146.7
72.5°	26.3	27.6	33.9	41.4	52.6	64.0	75.3	84.0	91.6	96.6	99.1
75°	15.1	22.6	22.6	30.1	37.6	42.6	50.2	56.4	60.2	64.0	64.0
77.5°	10.0	13.8	15.1	18.8	22.6	28.9	35.1	38.9	42.6	43.9	43.9
80°	8.8	10.0	10.0	13.8	16.3	21.3	25.1	26.3	28.9	30.1	32.6
82.5°	3.8	5.0	6.2	10.0	11.3	11.3	15.1	16.3	18.8	20.1	20.1
85°	1.2	2.5	2.5	3.8	6.2	7.5	8.8	10.0	11.3	11.3	12.5
87.5°	1.2	1.2	0.0	1.2	2.5	2.5	5.0	5.0	5.0	7.5	7.5
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: P245980

CATALOG NUMBER: LD8B40D010 ER8B40840 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2	2568.2
2.5°	2545.7	2546.9	2541.9	2540.6	2538.1	2539.4	2541.9
5°	2499.3	2500.5	2495.5	2490.5	2490.5	2489.2	2490.5
7.5°	2455.3	2456.6	2449.1	2446.6	2441.5	2442.8	2442.8
10°	2411.5	2411.5	2400.2	2398.9	2395.1	2393.9	2393.9
12.5°	2368.8	2365.0	2356.3	2351.3	2353.8	2346.3	2346.3
15°	2331.2	2324.9	2313.6	2309.9	2303.6	2301.1	2301.1
17.5°	2292.3	2287.3	2277.3	2269.8	2262.2	2261.0	2262.2
20°	2254.7	2249.7	2237.1	2232.1	2225.9	2225.9	2223.4
22.5°	2217.1	2212.1	2200.8	2197.0	2188.3	2188.3	2189.5
25°	2178.2	2174.4	2161.9	2159.4	2158.2	2153.1	2155.6
27.5°	2125.5	2123.0	2113.0	2109.2	2104.2	2103.0	2105.5
30°	2029.0	2025.2	2017.7	2014.0	2005.2	2006.4	2008.9
32.5°	1908.6	1903.6	1893.5	1889.8	1882.3	1879.8	1881.0
35°	1758.1	1754.4	1745.6	1745.6	1738.1	1735.5	1738.1
37.5°	1605.2	1608.9	1605.2	1608.9	1605.2	1603.9	1605.2
40°	1460.9	1474.7	1477.2	1491.0	1486.0	1493.5	1492.3
42.5°	1323.0	1345.5	1354.4	1365.6	1363.1	1368.1	1371.9
45°	1183.8	1202.6	1211.4	1218.9	1220.2	1222.7	1223.9
47.5°	1052.1	1067.2	1068.4	1077.2	1075.9	1075.9	1079.7
50°	929.2	939.3	941.7	948.0	943.0	940.5	941.7
52.5°	815.1	825.1	822.6	825.1	818.9	816.4	817.6
55°	698.5	703.5	703.5	703.5	696.0	696.0	696.0
57.5°	579.3	580.6	578.1	579.3	578.1	570.6	569.3
60°	470.3	470.3	469.0	470.3	466.5	462.7	462.7
62.5°	367.4	369.9	374.9	369.9	367.4	369.9	366.2
65°	274.6	279.7	278.4	280.9	279.7	279.7	277.1
67.5°	206.9	208.2	209.4	210.7	210.7	210.7	210.7
70°	151.8	155.5	154.2	154.2	154.2	154.2	161.8
72.5°	101.6	106.6	105.3	107.8	107.8	110.4	107.8
75°	69.0	74.0	71.5	75.3	74.0	71.5	77.7
77.5°	46.4	48.9	50.2	51.4	50.2	48.9	50.2
80°	32.6	35.1	33.9	35.1	35.1	35.1	36.4
82.5°	20.1	23.8	22.6	23.8	22.6	23.8	23.8
85°	13.8	15.1	12.5	15.1	13.8	13.8	16.3
87.5°	8.8	7.5	7.5	8.8	7.5	8.8	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)