

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: P245968

Luminaire Tested: **LD8B40D010 ER8B40830 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245968
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4187.0 lumens
Efficiency: N/A
Efficacy: 102.4 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

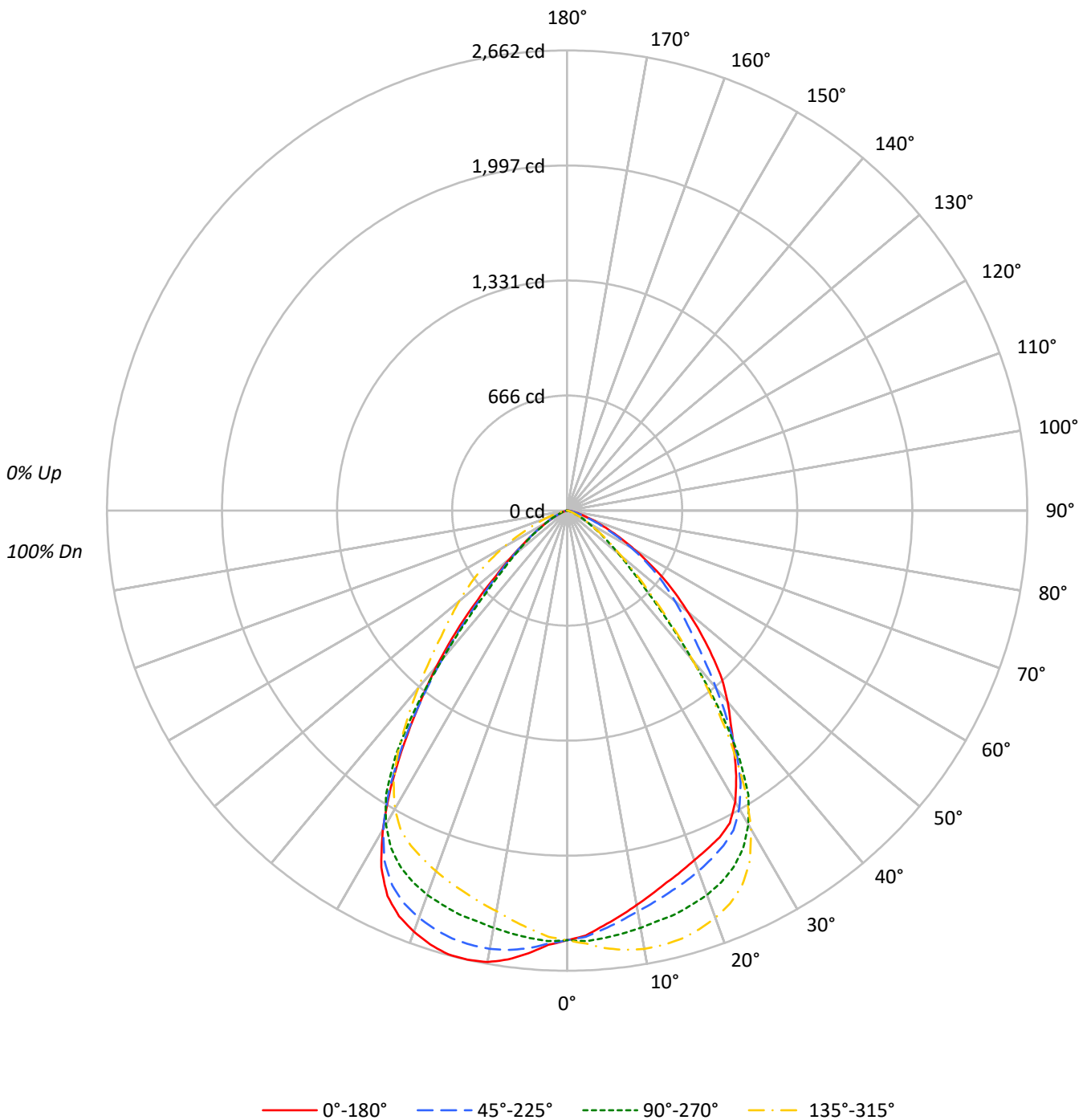
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	76650	76650	76650	76650
5°	74615	76828	79574	76828
10°	72550	76730	83036	76730
15°	71101	77183	84854	77183
20°	70615	77625	85074	77625
25°	70988	77469	83706	77469
30°	69230	74635	75974	74635
35°	63325	65106	61774	65106
40°	58139	45290	47294	45290
45°	51659	27631	31970	27631
50°	43727	18455	20494	18455
55°	36214	12596	13311	12596
60°	27623	8381	8455	8381
65°	19569	5224	4779	5224
70°	14119	3498	3174	3498
75°	8960	1739	1442	1739
80°	6251	1296	1065	1296
85°	5590	0	425	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	5.7
10°-20°	685.1	16.4
20°-30°	1037.4	24.8
30°-40°	1039.8	24.8
40°-50°	652.9	15.6
50°-60°	347.9	8.3
60°-70°	143.1	3.4
70°-80°	37.8	0.9
80°-90°	6.4	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°	1959.1	46.8
0°-40°	2998.9	71.6
0°-60°	3999.7	95.5
0°-90°	4187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4187.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2486	2486	2486	2486	2486	
5°	2410	2482	2571	2482	2410	227
15°	2227	2418	2658	2418	2227	630
25°	2086	2277	2460	2277	2086	957
35°	1682	1730	1641	1730	1682	1054
45°	1185	634	733	634	1185	911
55°	674	234	248	234	674	601
65°	268	72	66	72	268	278
75°	75	15	12	15	75	85
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°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2460.2	2457.8	2456.6	2459.0	2460.2	2465.1	2463.9	2466.3	2466.3	2467.5	2469.9
5°	2410.5	2409.2	2410.5	2410.5	2415.3	2420.1	2418.9	2422.6	2425.0	2431.1	2433.5
7.5°	2364.3	2364.3	2363.1	2367.9	2370.4	2377.7	2376.4	2382.5	2386.2	2392.2	2400.7
10°	2317.0	2317.0	2318.2	2321.8	2323.1	2334.0	2334.0	2342.5	2347.3	2353.4	2364.3
12.5°	2270.9	2270.9	2278.2	2275.7	2280.6	2289.1	2292.7	2301.2	2308.5	2320.6	2331.6
15°	2227.2	2227.2	2229.6	2235.7	2239.3	2250.2	2256.3	2266.0	2274.5	2286.7	2302.4
17.5°	2189.5	2188.3	2189.5	2196.8	2204.1	2213.8	2218.7	2230.8	2239.3	2255.1	2269.7
20°	2151.9	2154.4	2154.4	2160.4	2165.3	2177.4	2182.2	2195.6	2205.3	2219.9	2236.9
22.5°	2119.2	2118.0	2118.0	2126.4	2130.1	2141.0	2145.8	2158.0	2168.9	2181.0	2196.8
25°	2086.4	2083.9	2088.8	2090.0	2092.4	2104.6	2108.2	2116.7	2127.6	2138.6	2154.4
27.5°	2037.8	2035.4	2036.6	2041.5	2045.1	2054.8	2057.3	2065.7	2074.2	2083.9	2097.3
30°	1944.3	1942.0	1940.8	1949.2	1952.9	1960.1	1963.8	1978.4	1980.8	1991.7	2001.4
32.5°	1820.6	1819.4	1821.8	1829.0	1832.7	1842.4	1847.3	1855.8	1861.8	1867.9	1877.6
35°	1682.2	1679.8	1682.2	1689.5	1689.5	1698.0	1701.7	1705.3	1704.1	1705.3	1702.9
37.5°	1553.6	1552.3	1553.6	1557.2	1553.6	1557.2	1553.6	1546.3	1532.9	1518.4	1503.8
40°	1444.3	1445.5	1438.3	1443.1	1429.7	1427.3	1414.0	1395.8	1369.1	1340.0	1298.7
42.5°	1327.8	1324.2	1319.3	1321.7	1310.8	1302.3	1280.5	1257.4	1223.4	1174.9	1125.1
45°	1184.6	1183.4	1180.9	1179.7	1172.5	1164.0	1145.7	1119.0	1081.4	1031.7	972.2
47.5°	1045.0	1041.4	1041.4	1042.6	1034.1	1032.9	1018.3	995.3	962.5	913.9	852.0
50°	911.5	910.3	912.7	917.6	911.5	909.1	899.4	883.6	854.5	813.2	754.9
52.5°	791.3	790.1	792.6	798.6	796.2	798.6	788.9	776.8	757.4	717.3	666.3
55°	673.6	673.6	673.6	680.9	680.9	680.9	676.0	668.8	650.5	621.4	574.1
57.5°	551.0	552.2	559.5	560.7	559.5	562.0	560.7	553.4	541.3	520.7	484.3
60°	447.9	447.9	451.5	455.2	453.9	455.2	455.2	451.5	439.4	422.4	393.3
62.5°	354.4	358.0	355.6	358.0	362.9	358.0	355.6	353.2	344.7	333.8	309.5
65°	268.2	270.7	270.7	271.9	269.4	270.7	265.8	262.2	257.3	245.2	229.4
67.5°	203.9	203.9	203.9	203.9	202.7	201.5	200.3	196.6	188.1	183.3	166.3
70°	156.6	149.3	149.3	149.3	149.3	150.5	146.9	142.0	139.6	131.1	118.9
72.5°	104.4	106.8	104.4	104.4	102.0	103.2	98.3	95.9	93.5	88.6	81.3
75°	75.2	69.2	71.6	72.8	69.2	71.6	66.7	61.9	61.9	58.3	54.6
77.5°	48.6	47.4	48.6	49.8	48.6	47.4	44.9	42.5	42.5	41.3	37.6
80°	35.2	34.0	34.0	34.0	32.8	34.0	31.6	31.6	29.1	27.9	25.5
82.5°	23.1	23.1	21.8	23.1	21.8	23.1	19.4	19.4	19.4	18.2	15.8
85°	15.8	13.3	13.3	14.6	12.1	14.6	13.3	12.1	10.9	10.9	9.7
87.5°	7.3	8.5	7.3	8.5	7.3	7.3	8.5	7.3	7.3	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°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2473.5	2474.7	2474.7	2479.6	2482.0	2483.2	2483.2	2493.0	2489.3	2491.8	2494.2
5°	2438.4	2445.6	2448.1	2448.1	2461.4	2466.3	2471.1	2482.0	2483.2	2490.5	2499.0
7.5°	2404.4	2412.9	2417.7	2428.6	2437.1	2445.6	2460.2	2467.5	2474.7	2484.5	2495.4
10°	2371.6	2381.3	2391.0	2399.5	2412.9	2423.8	2433.5	2450.5	2459.0	2472.4	2486.9
12.5°	2340.1	2353.4	2361.9	2376.4	2391.0	2400.7	2415.3	2431.1	2444.4	2457.8	2474.7
15°	2312.1	2327.9	2337.6	2353.4	2369.2	2382.5	2398.3	2417.7	2427.4	2443.2	2459.0
17.5°	2281.8	2298.8	2310.9	2325.5	2344.9	2359.4	2372.8	2392.2	2404.4	2421.3	2439.6
20°	2250.2	2267.2	2281.8	2296.4	2315.8	2330.3	2346.1	2365.5	2378.9	2395.9	2410.5
22.5°	2212.6	2228.4	2244.1	2261.1	2280.6	2292.7	2310.9	2327.9	2342.5	2358.2	2372.8
25°	2164.1	2183.5	2195.6	2211.4	2227.2	2240.5	2259.9	2276.9	2289.1	2303.6	2317.0
27.5°	2107.0	2121.6	2131.3	2144.6	2160.4	2172.6	2187.1	2204.1	2216.3	2229.6	2239.3
30°	2009.9	2023.3	2031.8	2041.5	2057.3	2068.2	2080.3	2096.1	2104.6	2114.3	2122.8
32.5°	1882.5	1893.4	1898.2	1905.5	1916.5	1927.4	1937.1	1950.4	1954.1	1960.1	1960.1
35°	1698.0	1700.4	1699.2	1701.7	1706.5	1712.5	1721.0	1729.5	1734.4	1734.4	1730.8
37.5°	1481.9	1467.4	1451.6	1439.5	1435.8	1433.4	1438.3	1441.9	1446.8	1449.2	1443.1
40°	1257.4	1224.7	1189.4	1157.9	1136.0	1126.3	1122.7	1125.1	1125.1	1133.6	1133.6
42.5°	1064.4	1013.4	961.3	913.9	882.4	858.1	847.2	847.2	848.4	854.5	858.1
45°	904.2	839.9	779.2	727.0	683.3	651.7	637.2	633.6	632.4	634.8	643.3
47.5°	781.6	714.9	651.7	587.5	541.3	509.8	496.4	491.5	486.7	491.5	492.8
50°	685.8	616.6	549.8	485.5	436.9	409.0	392.0	384.7	383.5	383.5	386.0
52.5°	598.3	534.0	467.3	401.8	350.8	324.1	308.3	304.6	299.8	304.6	304.6
55°	515.8	451.5	386.0	324.1	281.6	253.7	239.1	234.3	231.8	235.5	235.5
57.5°	426.0	371.4	310.7	254.9	212.4	193.0	182.0	176.0	174.8	177.2	174.8
60°	349.6	303.4	251.2	200.3	167.5	146.9	138.4	135.9	133.5	135.9	135.9
62.5°	276.7	237.9	195.4	156.6	128.6	114.1	104.4	104.4	103.2	103.2	104.4
65°	205.1	174.8	144.4	111.7	89.8	78.9	71.6	71.6	70.4	71.6	70.4
67.5°	149.3	128.6	104.4	81.3	64.3	58.3	53.4	49.8	52.2	49.8	48.6
70°	109.3	92.2	75.2	61.9	49.8	43.7	40.1	38.8	36.4	36.4	36.4
72.5°	72.8	61.9	51.0	40.1	32.8	26.7	25.5	23.1	20.6	21.8	24.3
75°	48.6	41.3	36.4	29.1	21.8	21.8	14.6	14.6	12.1	14.6	10.9
77.5°	34.0	27.9	21.8	18.2	14.6	13.3	9.7	9.7	8.5	8.5	8.5
80°	24.3	20.6	15.8	13.3	9.7	9.7	8.5	7.3	6.0	6.0	7.3
82.5°	14.6	10.9	10.9	9.7	6.0	4.8	3.6	4.8	2.4	2.4	2.4
85°	8.5	7.3	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°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2500.3	2499.0	2501.5	2501.5	2508.8	2507.5	2511.2	2511.2	2508.8	2510.0	2514.8
5°	2508.8	2512.4	2519.7	2525.8	2536.6	2541.5	2547.6	2553.7	2554.9	2558.5	2562.2
7.5°	2508.8	2520.9	2529.4	2540.3	2554.9	2563.4	2576.7	2587.7	2592.5	2598.5	2605.8
10°	2503.9	2516.0	2531.8	2543.9	2562.2	2575.5	2588.9	2605.8	2613.1	2622.8	2632.6
12.5°	2494.2	2507.5	2524.5	2540.3	2560.9	2573.1	2590.1	2605.8	2616.8	2630.1	2641.1
15°	2479.6	2495.4	2511.2	2527.0	2548.8	2563.4	2579.2	2597.3	2608.3	2622.8	2632.6
17.5°	2456.6	2473.5	2488.1	2502.7	2523.3	2540.3	2554.9	2571.9	2582.8	2594.9	2608.3
20°	2428.6	2444.4	2460.2	2472.4	2493.0	2507.5	2523.3	2539.1	2547.6	2550.0	2570.7
22.5°	2393.5	2404.4	2416.5	2435.9	2448.1	2461.4	2476.0	2490.5	2499.0	2512.4	2519.7
25°	2335.2	2346.1	2359.4	2367.9	2382.5	2393.5	2408.0	2423.8	2428.6	2438.4	2445.6
27.5°	2253.9	2259.9	2266.0	2273.3	2281.8	2287.9	2296.4	2303.6	2308.5	2313.3	2318.2
30°	2125.2	2125.2	2125.2	2120.3	2124.0	2127.6	2128.8	2127.6	2127.6	2126.4	2126.4
32.5°	1955.3	1945.6	1934.7	1925.0	1921.3	1916.5	1914.0	1910.4	1904.3	1900.7	1901.9
35°	1725.9	1704.1	1690.7	1678.6	1668.9	1661.6	1657.9	1654.3	1653.1	1648.3	1643.4
37.5°	1439.5	1423.7	1414.0	1406.7	1398.2	1390.9	1392.1	1393.4	1397.0	1394.6	1395.8
40°	1136.0	1132.4	1136.0	1127.5	1125.1	1127.5	1133.6	1142.1	1147.0	1151.8	1160.3
42.5°	864.2	870.2	878.8	878.8	882.4	887.2	894.5	907.9	915.1	923.6	933.4
45°	650.5	657.8	668.8	672.4	674.8	680.9	689.4	700.3	705.2	712.4	720.9
47.5°	501.3	506.1	512.2	518.3	524.3	526.8	535.2	535.2	541.3	546.2	548.6
50°	390.8	395.7	400.5	404.2	406.6	410.3	412.6	416.3	417.5	419.9	421.1
52.5°	305.8	311.9	311.9	314.3	318.0	321.6	320.4	321.6	322.8	322.8	326.5
55°	239.1	239.1	242.7	242.7	245.2	243.9	245.2	245.2	245.2	245.2	246.4
57.5°	178.4	179.6	183.3	180.8	179.6	182.0	179.6	182.0	180.8	183.3	179.6
60°	137.1	137.1	138.4	138.4	139.6	139.6	139.6	138.4	138.4	137.1	137.1
62.5°	103.2	104.4	105.6	104.4	104.4	104.4	103.2	103.2	102.0	100.7	100.7
65°	69.2	68.0	70.4	68.0	69.2	69.2	68.0	69.2	65.5	66.7	65.5
67.5°	49.8	48.6	47.4	48.6	47.4	46.1	46.1	47.4	48.6	44.9	44.9
70°	32.8	34.0	32.8	34.0	35.2	35.2	34.0	32.8	34.0	31.6	32.8
72.5°	20.6	20.6	20.6	20.6	20.6	21.8	21.8	21.8	19.4	19.4	18.2
75°	9.7	13.3	10.9	9.7	13.3	13.3	12.1	12.1	10.9	10.9	10.9
77.5°	9.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.0	7.3	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: P245968

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2513.6	2512.4	2513.6	2514.8	2513.6	2512.4	2513.6	2514.8	2510.0	2508.8	2511.2
5°	2567.0	2567.0	2569.4	2570.7	2569.4	2567.0	2567.0	2562.2	2558.5	2554.9	2553.7
7.5°	2613.1	2615.6	2618.0	2619.2	2618.0	2615.6	2613.1	2605.8	2598.5	2592.5	2587.7
10°	2641.1	2644.7	2649.6	2651.9	2649.6	2644.7	2641.1	2632.6	2622.8	2613.1	2605.8
12.5°	2653.2	2656.8	2662.9	2661.7	2662.9	2656.8	2653.2	2641.1	2630.1	2616.8	2605.8
15°	2644.7	2649.6	2655.6	2658.0	2655.6	2649.6	2644.7	2632.6	2622.8	2608.3	2597.3
17.5°	2618.0	2625.3	2628.9	2632.6	2628.9	2625.3	2618.0	2608.3	2594.9	2582.8	2571.9
20°	2581.6	2586.5	2591.3	2592.5	2591.3	2586.5	2581.6	2570.7	2550.0	2547.6	2539.1
22.5°	2529.4	2533.0	2543.9	2540.3	2543.9	2533.0	2529.4	2519.7	2512.4	2499.0	2490.5
25°	2454.1	2457.8	2459.0	2460.2	2459.0	2457.8	2454.1	2445.6	2438.4	2428.6	2423.8
27.5°	2324.3	2324.3	2326.7	2327.9	2326.7	2324.3	2324.3	2318.2	2313.3	2308.5	2303.6
30°	2127.6	2127.6	2127.6	2133.7	2127.6	2127.6	2127.6	2126.4	2126.4	2127.6	2127.6
32.5°	1900.7	1898.2	1895.8	1898.2	1895.8	1898.2	1900.7	1901.9	1900.7	1904.3	1910.4
35°	1643.4	1642.2	1645.8	1641.0	1645.8	1642.2	1643.4	1643.4	1648.3	1653.1	1654.3
37.5°	1397.0	1394.6	1399.4	1394.6	1399.4	1394.6	1397.0	1395.8	1394.6	1397.0	1393.4
40°	1162.8	1165.2	1165.2	1174.9	1165.2	1165.2	1162.8	1160.3	1151.8	1147.0	1142.1
42.5°	938.2	945.5	943.0	950.3	943.0	945.5	938.2	933.4	923.6	915.1	907.9
45°	725.8	730.7	730.7	733.1	730.7	730.7	725.8	720.9	712.4	705.2	700.3
47.5°	557.1	557.1	557.1	558.3	557.1	557.1	557.1	548.6	546.2	541.3	535.2
50°	423.6	424.8	426.0	427.2	426.0	424.8	423.6	421.1	419.9	417.5	416.3
52.5°	325.3	326.5	324.1	326.5	324.1	326.5	325.3	326.5	322.8	322.8	321.6
55°	246.4	245.2	246.4	247.6	246.4	245.2	246.4	246.4	245.2	245.2	245.2
57.5°	180.8	178.4	178.4	178.4	178.4	178.4	180.8	179.6	183.3	180.8	182.0
60°	134.7	135.9	135.9	137.1	135.9	135.9	134.7	137.1	137.1	138.4	138.4
62.5°	99.5	103.2	100.7	103.2	100.7	103.2	99.5	100.7	100.7	102.0	103.2
65°	64.3	64.3	64.3	65.5	64.3	64.3	64.3	65.5	66.7	65.5	69.2
67.5°	43.7	44.9	47.4	46.1	47.4	44.9	43.7	44.9	44.9	48.6	47.4
70°	35.2	31.6	31.6	35.2	31.6	31.6	35.2	32.8	31.6	34.0	32.8
72.5°	20.6	18.2	20.6	20.6	20.6	18.2	20.6	18.2	19.4	19.4	21.8
75°	10.9	9.7	8.5	12.1	8.5	9.7	10.9	10.9	10.9	10.9	12.1
77.5°	7.3	6.0	8.5	8.5	8.5	6.0	7.3	6.0	7.3	6.0	7.3
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: P245968

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2511.2	2507.5	2508.8	2501.5	2501.5	2499.0	2500.3	2494.2	2491.8	2489.3	2493.0
5°	2547.6	2541.5	2536.6	2525.8	2519.7	2512.4	2508.8	2499.0	2490.5	2483.2	2482.0
7.5°	2576.7	2563.4	2554.9	2540.3	2529.4	2520.9	2508.8	2495.4	2484.5	2474.7	2467.5
10°	2588.9	2575.5	2562.2	2543.9	2531.8	2516.0	2503.9	2486.9	2472.4	2459.0	2450.5
12.5°	2590.1	2573.1	2560.9	2540.3	2524.5	2507.5	2494.2	2474.7	2457.8	2444.4	2431.1
15°	2579.2	2563.4	2548.8	2527.0	2511.2	2495.4	2479.6	2459.0	2443.2	2427.4	2417.7
17.5°	2554.9	2540.3	2523.3	2502.7	2488.1	2473.5	2456.6	2439.6	2421.3	2404.4	2392.2
20°	2523.3	2507.5	2493.0	2472.4	2460.2	2444.4	2428.6	2410.5	2395.9	2378.9	2365.5
22.5°	2476.0	2461.4	2448.1	2435.9	2416.5	2404.4	2393.5	2372.8	2358.2	2342.5	2327.9
25°	2408.0	2393.5	2382.5	2367.9	2359.4	2346.1	2335.2	2317.0	2303.6	2289.1	2276.9
27.5°	2296.4	2287.9	2281.8	2273.3	2266.0	2259.9	2253.9	2239.3	2229.6	2216.3	2204.1
30°	2128.8	2127.6	2124.0	2120.3	2125.2	2125.2	2125.2	2122.8	2114.3	2104.6	2096.1
32.5°	1914.0	1916.5	1921.3	1925.0	1934.7	1945.6	1955.3	1960.1	1960.1	1954.1	1950.4
35°	1657.9	1661.6	1668.9	1678.6	1690.7	1704.1	1725.9	1730.8	1734.4	1734.4	1729.5
37.5°	1392.1	1390.9	1398.2	1406.7	1414.0	1423.7	1439.5	1443.1	1449.2	1446.8	1441.9
40°	1133.6	1127.5	1125.1	1127.5	1136.0	1132.4	1136.0	1133.6	1133.6	1125.1	1125.1
42.5°	894.5	887.2	882.4	878.8	878.8	870.2	864.2	858.1	854.5	848.4	847.2
45°	689.4	680.9	674.8	672.4	668.8	657.8	650.5	643.3	634.8	632.4	633.6
47.5°	535.2	526.8	524.3	518.3	512.2	506.1	501.3	492.8	491.5	486.7	491.5
50°	412.6	410.3	406.6	404.2	400.5	395.7	390.8	386.0	383.5	383.5	384.7
52.5°	320.4	321.6	318.0	314.3	311.9	311.9	305.8	304.6	304.6	299.8	304.6
55°	245.2	243.9	245.2	242.7	242.7	239.1	239.1	235.5	235.5	231.8	234.3
57.5°	179.6	182.0	179.6	180.8	183.3	179.6	178.4	174.8	177.2	174.8	176.0
60°	139.6	139.6	139.6	138.4	138.4	137.1	137.1	135.9	135.9	133.5	135.9
62.5°	103.2	104.4	104.4	104.4	105.6	104.4	103.2	104.4	103.2	103.2	104.4
65°	68.0	69.2	69.2	68.0	70.4	68.0	69.2	70.4	71.6	70.4	71.6
67.5°	46.1	46.1	47.4	48.6	47.4	48.6	49.8	48.6	49.8	52.2	49.8
70°	34.0	35.2	35.2	34.0	32.8	34.0	32.8	36.4	36.4	36.4	38.8
72.5°	21.8	21.8	20.6	20.6	20.6	20.6	20.6	24.3	21.8	20.6	23.1
75°	12.1	13.3	13.3	9.7	10.9	13.3	9.7	10.9	14.6	12.1	14.6
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	9.7	8.5	8.5	8.5	9.7
80°	6.0	4.8	4.8	3.6	4.8	4.8	4.8	7.3	6.0	6.0	7.3
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: P245968

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2483.2	2483.2	2482.0	2479.6	2474.7	2474.7	2473.5	2469.9	2467.5	2466.3	2466.3
5°	2471.1	2466.3	2461.4	2448.1	2448.1	2445.6	2438.4	2433.5	2431.1	2425.0	2422.6
7.5°	2460.2	2445.6	2437.1	2428.6	2417.7	2412.9	2404.4	2400.7	2392.2	2386.2	2382.5
10°	2433.5	2423.8	2412.9	2399.5	2391.0	2381.3	2371.6	2364.3	2353.4	2347.3	2342.5
12.5°	2415.3	2400.7	2391.0	2376.4	2361.9	2353.4	2340.1	2331.6	2320.6	2308.5	2301.2
15°	2398.3	2382.5	2369.2	2353.4	2337.6	2327.9	2312.1	2302.4	2286.7	2274.5	2266.0
17.5°	2372.8	2359.4	2344.9	2325.5	2310.9	2298.8	2281.8	2269.7	2255.1	2239.3	2230.8
20°	2346.1	2330.3	2315.8	2296.4	2281.8	2267.2	2250.2	2236.9	2219.9	2205.3	2195.6
22.5°	2310.9	2292.7	2280.6	2261.1	2244.1	2228.4	2212.6	2196.8	2181.0	2168.9	2158.0
25°	2259.9	2240.5	2227.2	2211.4	2195.6	2183.5	2164.1	2154.4	2138.6	2127.6	2116.7
27.5°	2187.1	2172.6	2160.4	2144.6	2131.3	2121.6	2107.0	2097.3	2083.9	2074.2	2065.7
30°	2080.3	2068.2	2057.3	2041.5	2031.8	2023.3	2009.9	2001.4	1991.7	1980.8	1978.4
32.5°	1937.1	1927.4	1916.5	1905.5	1898.2	1893.4	1882.5	1877.6	1867.9	1861.8	1855.8
35°	1721.0	1712.5	1706.5	1701.7	1699.2	1700.4	1698.0	1702.9	1705.3	1704.1	1705.3
37.5°	1438.3	1433.4	1435.8	1439.5	1451.6	1467.4	1481.9	1503.8	1518.4	1532.9	1546.3
40°	1122.7	1126.3	1136.0	1157.9	1189.4	1224.7	1257.4	1298.7	1340.0	1369.1	1395.8
42.5°	847.2	858.1	882.4	913.9	961.3	1013.4	1064.4	1125.1	1174.9	1223.4	1257.4
45°	637.2	651.7	683.3	727.0	779.2	839.9	904.2	972.2	1031.7	1081.4	1119.0
47.5°	496.4	509.8	541.3	587.5	651.7	714.9	781.6	852.0	913.9	962.5	995.3
50°	392.0	409.0	436.9	485.5	549.8	616.6	685.8	754.9	813.2	854.5	883.6
52.5°	308.3	324.1	350.8	401.8	467.3	534.0	598.3	666.3	717.3	757.4	776.8
55°	239.1	253.7	281.6	324.1	386.0	451.5	515.8	574.1	621.4	650.5	668.8
57.5°	182.0	193.0	212.4	254.9	310.7	371.4	426.0	484.3	520.7	541.3	553.4
60°	138.4	146.9	167.5	200.3	251.2	303.4	349.6	393.3	422.4	439.4	451.5
62.5°	104.4	114.1	128.6	156.6	195.4	237.9	276.7	309.5	333.8	344.7	353.2
65°	71.6	78.9	89.8	111.7	144.4	174.8	205.1	229.4	245.2	257.3	262.2
67.5°	53.4	58.3	64.3	81.3	104.4	128.6	149.3	166.3	183.3	188.1	196.6
70°	40.1	43.7	49.8	61.9	75.2	92.2	109.3	118.9	131.1	139.6	142.0
72.5°	25.5	26.7	32.8	40.1	51.0	61.9	72.8	81.3	88.6	93.5	95.9
75°	14.6	21.8	21.8	29.1	36.4	41.3	48.6	54.6	58.3	61.9	61.9
77.5°	9.7	13.3	14.6	18.2	21.8	27.9	34.0	37.6	41.3	42.5	42.5
80°	8.5	9.7	9.7	13.3	15.8	20.6	24.3	25.5	27.9	29.1	31.6
82.5°	3.6	4.8	6.0	9.7	10.9	10.9	14.6	15.8	18.2	19.4	19.4
85°	1.2	2.4	2.4	3.6	6.0	7.3	8.5	9.7	10.9	10.9	12.1
87.5°	1.2	1.2	0.0	1.2	2.4	2.4	4.8	4.8	4.8	7.3	7.3
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: P245968

CATALOG NUMBER: LD8B40D010 ER8B40830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7	2485.7
2.5°	2463.9	2465.1	2460.2	2459.0	2456.6	2457.8	2460.2
5°	2418.9	2420.1	2415.3	2410.5	2410.5	2409.2	2410.5
7.5°	2376.4	2377.7	2370.4	2367.9	2363.1	2364.3	2364.3
10°	2334.0	2334.0	2323.1	2321.8	2318.2	2317.0	2317.0
12.5°	2292.7	2289.1	2280.6	2275.7	2278.2	2270.9	2270.9
15°	2256.3	2250.2	2239.3	2235.7	2229.6	2227.2	2227.2
17.5°	2218.7	2213.8	2204.1	2196.8	2189.5	2188.3	2189.5
20°	2182.2	2177.4	2165.3	2160.4	2154.4	2154.4	2151.9
22.5°	2145.8	2141.0	2130.1	2126.4	2118.0	2118.0	2119.2
25°	2108.2	2104.6	2092.4	2090.0	2088.8	2083.9	2086.4
27.5°	2057.3	2054.8	2045.1	2041.5	2036.6	2035.4	2037.8
30°	1963.8	1960.1	1952.9	1949.2	1940.8	1942.0	1944.3
32.5°	1847.3	1842.4	1832.7	1829.0	1821.8	1819.4	1820.6
35°	1701.7	1698.0	1689.5	1689.5	1682.2	1679.8	1682.2
37.5°	1553.6	1557.2	1553.6	1557.2	1553.6	1552.3	1553.6
40°	1414.0	1427.3	1429.7	1443.1	1438.3	1445.5	1444.3
42.5°	1280.5	1302.3	1310.8	1321.7	1319.3	1324.2	1327.8
45°	1145.7	1164.0	1172.5	1179.7	1180.9	1183.4	1184.6
47.5°	1018.3	1032.9	1034.1	1042.6	1041.4	1041.4	1045.0
50°	899.4	909.1	911.5	917.6	912.7	910.3	911.5
52.5°	788.9	798.6	796.2	798.6	792.6	790.1	791.3
55°	676.0	680.9	680.9	680.9	673.6	673.6	673.6
57.5°	560.7	562.0	559.5	560.7	559.5	552.2	551.0
60°	455.2	455.2	453.9	455.2	451.5	447.9	447.9
62.5°	355.6	358.0	362.9	358.0	355.6	358.0	354.4
65°	265.8	270.7	269.4	271.9	270.7	270.7	268.2
67.5°	200.3	201.5	202.7	203.9	203.9	203.9	203.9
70°	146.9	150.5	149.3	149.3	149.3	149.3	156.6
72.5°	98.3	103.2	102.0	104.4	104.4	106.8	104.4
75°	66.7	71.6	69.2	72.8	71.6	69.2	75.2
77.5°	44.9	47.4	48.6	49.8	48.6	47.4	48.6
80°	31.6	34.0	32.8	34.0	34.0	34.0	35.2
82.5°	19.4	23.1	21.8	23.1	21.8	23.1	23.1
85°	13.3	14.6	12.1	14.6	13.3	13.3	15.8
87.5°	8.5	7.3	7.3	8.5	7.3	8.5	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)