

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: P244954

Luminaire Tested: **LD8B40D010 ER8B40827 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244954
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 ER8B40827 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4092.0 lumens
Efficiency: N/A
Efficacy: 100.0 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

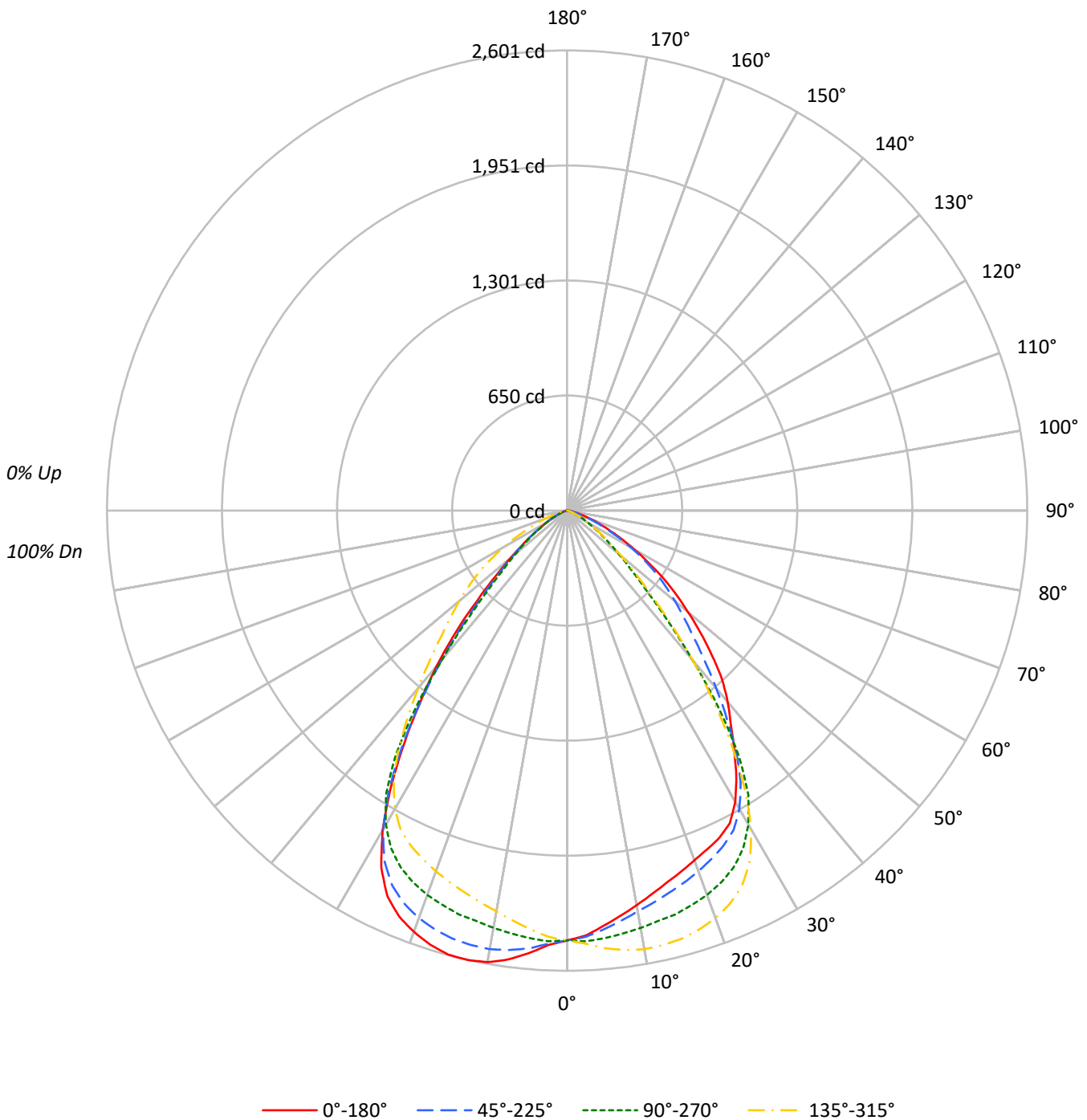
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	74911	74911	74911	74911
5°	72922	75085	77766	75085
10°	70903	74989	81154	74989
15°	69486	75433	82929	75433
20°	69014	75866	83144	75866
25°	69375	75714	81808	75714
30°	67660	72940	74251	72940
35°	61891	63630	60370	63630
40°	56822	44263	46220	44263
45°	50486	27003	31242	27003
50°	42734	18038	20029	18038
55°	35391	12306	13010	12306
60°	26994	8196	8264	8196
65°	19124	5108	4677	5108
70°	13794	3417	3101	3417
75°	8757	1704	1418	1704
80°	6109	1261	1048	1261
85°	5449	0	425	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	5.7
10°-20°	669.6	16.4
20°-30°	1013.9	24.8
30°-40°	1016.2	24.8
40°-50°	638.1	15.6
50°-60°	340.0	8.3
60°-70°	139.8	3.4
70°-80°	36.9	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°	1914.7	46.8
0°-40°	2930.8	71.6
0°-60°	3909.0	95.5
0°-90°	4092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4092.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2429	2429	2429	2429	2429	
5°	2356	2426	2512	2426	2356	222
15°	2177	2363	2598	2363	2177	616
25°	2039	2225	2404	2225	2039	935
35°	1644	1690	1604	1690	1644	1030
45°	1158	619	716	619	1158	890
55°	658	229	242	229	658	587
65°	262	70	64	70	262	272
75°	74	14	12	14	74	83
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°	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3
2.5°	2404.4	2402.0	2400.8	2403.2	2404.4	2409.1	2408.0	2410.3	2410.3	2411.5	2413.9
5°	2355.8	2354.5	2355.8	2355.8	2360.5	2365.2	2364.1	2367.6	2370.0	2375.9	2378.3
7.5°	2310.7	2310.7	2309.5	2314.2	2316.6	2323.7	2322.5	2328.5	2332.0	2337.9	2346.2
10°	2264.4	2264.4	2265.6	2269.1	2270.4	2281.0	2281.0	2289.3	2294.0	2300.0	2310.7
12.5°	2219.3	2219.3	2226.5	2224.1	2228.8	2237.1	2240.7	2249.0	2256.1	2268.0	2278.7
15°	2176.6	2176.6	2179.0	2184.9	2188.5	2199.2	2205.1	2214.6	2222.9	2234.8	2250.2
17.5°	2139.9	2138.7	2139.9	2147.0	2154.1	2163.6	2168.3	2180.2	2188.5	2203.9	2218.2
20°	2103.1	2105.5	2105.5	2111.4	2116.1	2128.0	2132.7	2145.8	2155.3	2169.5	2186.1
22.5°	2071.1	2069.9	2069.9	2078.2	2081.8	2092.4	2097.1	2109.0	2119.7	2131.6	2147.0
25°	2039.0	2036.6	2041.4	2042.6	2044.9	2056.8	2060.4	2068.7	2079.4	2090.1	2105.5
27.5°	1991.6	1989.2	1990.4	1995.1	1998.7	2008.2	2010.6	2018.9	2027.2	2036.6	2049.7
30°	1900.2	1897.9	1896.7	1905.0	1908.6	1915.7	1919.2	1933.5	1935.8	1946.5	1956.0
32.5°	1779.2	1778.1	1780.5	1787.5	1791.1	1800.6	1805.4	1813.7	1819.6	1825.5	1835.0
35°	1644.1	1641.7	1644.1	1651.2	1651.2	1659.5	1663.0	1666.6	1665.4	1666.6	1664.2
37.5°	1518.3	1517.1	1518.3	1521.8	1518.3	1521.8	1518.3	1511.2	1498.2	1483.9	1469.7
40°	1411.6	1412.7	1405.6	1410.4	1397.3	1395.0	1381.9	1364.1	1338.0	1309.6	1269.2
42.5°	1297.7	1294.1	1289.4	1291.7	1281.1	1272.7	1251.4	1228.9	1195.7	1148.2	1099.6
45°	1157.7	1156.5	1154.2	1153.0	1145.9	1137.6	1119.7	1093.7	1056.9	1008.3	950.1
47.5°	1021.3	1017.7	1017.7	1018.9	1010.6	1009.4	995.2	972.7	940.6	893.2	832.7
50°	890.8	889.6	892.0	896.8	890.8	888.5	879.0	863.6	835.1	794.8	737.8
52.5°	773.4	772.2	774.6	780.5	778.1	780.5	771.0	759.2	740.2	701.0	651.2
55°	658.3	658.3	658.3	665.4	665.4	665.4	660.7	653.6	635.8	607.3	561.1
57.5°	538.5	539.7	546.8	548.0	546.8	549.2	548.0	540.9	529.1	508.9	473.3
60°	437.7	437.7	441.3	444.8	443.6	444.8	444.8	441.3	429.4	412.8	384.3
62.5°	346.4	349.9	347.5	349.9	354.7	349.9	347.5	345.2	336.9	326.2	302.5
65°	262.1	264.5	264.5	265.7	263.3	264.5	259.8	256.2	251.5	239.6	224.2
67.5°	199.3	199.3	199.3	199.3	198.1	196.9	195.7	192.2	183.9	179.1	162.5
70°	153.0	145.9	145.9	145.9	145.9	147.1	143.5	138.8	136.4	128.1	116.3
72.5°	102.0	104.4	102.0	102.0	99.6	100.8	96.1	93.7	91.3	86.6	79.5
75°	73.5	67.6	70.0	71.2	67.6	70.0	65.2	60.5	60.5	56.9	53.4
77.5°	47.5	46.3	47.5	48.6	47.5	46.3	43.9	41.5	41.5	40.3	36.8
80°	34.4	33.2	33.2	33.2	32.0	33.2	30.9	30.9	28.5	27.3	24.9
82.5°	22.6	22.6	21.3	22.6	21.3	22.6	19.0	19.0	19.0	17.8	15.4
85°	15.4	13.0	13.0	14.3	11.9	14.3	13.0	11.9	10.7	10.7	9.5
87.5°	7.1	8.3	7.1	8.3	7.1	7.1	8.3	7.1	7.1	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°	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3
2.5°	2417.4	2418.6	2418.6	2423.4	2425.7	2426.9	2426.9	2436.4	2432.9	2435.2	2437.6
5°	2383.1	2390.1	2392.5	2392.5	2405.6	2410.3	2415.0	2425.7	2426.9	2434.0	2442.3
7.5°	2349.8	2358.1	2362.9	2373.5	2381.8	2390.1	2404.4	2411.5	2418.6	2428.1	2438.8
10°	2317.8	2327.3	2336.8	2345.1	2358.1	2368.8	2378.3	2394.9	2403.2	2416.3	2430.5
12.5°	2287.0	2300.0	2308.3	2322.5	2336.8	2346.2	2360.5	2375.9	2389.0	2402.0	2418.6
15°	2259.7	2275.1	2284.6	2300.0	2315.4	2328.5	2343.9	2362.9	2372.4	2387.8	2403.2
17.5°	2230.0	2246.6	2258.5	2272.7	2291.7	2305.9	2319.0	2337.9	2349.8	2366.4	2384.2
20°	2199.2	2215.8	2230.0	2244.2	2263.2	2277.4	2292.9	2311.9	2324.9	2341.5	2355.8
22.5°	2162.4	2177.8	2193.2	2209.8	2228.8	2240.7	2258.5	2275.1	2289.3	2304.7	2319.0
25°	2115.0	2134.0	2145.8	2161.2	2176.6	2189.7	2208.7	2225.3	2237.1	2251.4	2264.4
27.5°	2059.2	2073.5	2082.9	2096.0	2111.4	2123.3	2137.5	2154.1	2166.0	2179.0	2188.5
30°	1964.3	1977.4	1985.7	1995.1	2010.6	2021.3	2033.1	2048.5	2056.8	2066.3	2074.6
32.5°	1839.7	1850.4	1855.2	1862.3	1873.0	1883.6	1893.2	1906.2	1909.8	1915.7	1915.7
35°	1659.5	1661.8	1660.7	1663.0	1667.8	1673.7	1682.0	1690.3	1695.0	1695.0	1691.5
37.5°	1448.3	1434.1	1418.7	1406.8	1403.3	1400.9	1405.6	1409.2	1413.9	1416.3	1410.4
40°	1228.9	1196.9	1162.5	1131.6	1110.3	1100.8	1097.2	1099.6	1099.6	1107.9	1107.9
42.5°	1040.3	990.4	939.5	893.2	862.3	838.7	828.0	828.0	829.1	835.1	838.7
45°	883.7	820.8	761.5	710.5	667.8	637.0	622.8	619.2	618.0	620.4	628.7
47.5°	763.9	698.7	637.0	574.1	529.1	498.2	485.2	480.4	475.6	480.4	481.6
50°	670.2	602.6	537.4	474.5	427.0	399.7	383.1	376.0	374.8	374.8	377.2
52.5°	584.8	521.9	456.7	392.6	342.8	316.7	301.3	297.7	293.0	297.7	297.7
55°	504.1	441.3	377.2	316.7	275.2	247.9	233.7	228.9	226.5	230.1	230.1
57.5°	416.4	363.0	303.7	249.1	207.6	188.6	177.9	172.0	170.8	173.2	170.8
60°	341.6	296.6	245.5	195.7	163.7	143.5	135.2	132.9	130.5	132.9	132.9
62.5°	270.4	232.5	191.0	153.0	125.7	111.5	102.0	102.0	100.8	100.8	102.0
65°	200.5	170.8	141.2	109.1	87.8	77.1	70.0	70.0	68.8	70.0	68.8
67.5°	145.9	125.7	102.0	79.5	62.9	56.9	52.2	48.6	51.0	48.6	47.5
70°	106.8	90.1	73.5	60.5	48.6	42.7	39.2	37.9	35.6	35.6	35.6
72.5°	71.2	60.5	49.8	39.2	32.0	26.1	24.9	22.6	20.2	21.3	23.7
75°	47.5	40.3	35.6	28.5	21.3	21.3	14.3	14.3	11.9	14.3	10.7
77.5°	33.2	27.3	21.3	17.8	14.3	13.0	9.5	9.5	8.3	8.3	8.3
80°	23.7	20.2	15.4	13.0	9.5	9.5	8.3	7.1	5.9	5.9	7.1
82.5°	14.3	10.7	10.7	9.5	5.9	4.7	3.6	4.7	2.4	2.4	2.4
85°	8.3	7.1	5.9	3.6	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°	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3
2.5°	2443.5	2442.3	2444.7	2444.7	2451.8	2450.6	2454.2	2454.2	2451.8	2453.0	2457.8
5°	2451.8	2455.4	2462.5	2468.4	2479.1	2483.9	2489.8	2495.7	2496.9	2500.5	2504.0
7.5°	2451.8	2463.7	2472.0	2482.7	2496.9	2505.2	2518.2	2528.9	2533.7	2539.6	2546.7
10°	2447.1	2458.9	2474.4	2486.2	2504.0	2517.1	2530.1	2546.7	2553.8	2563.3	2572.8
12.5°	2437.6	2450.6	2467.2	2482.7	2502.8	2514.7	2531.3	2546.7	2557.4	2570.4	2581.1
15°	2423.4	2438.8	2454.2	2469.6	2491.0	2505.2	2520.6	2538.4	2549.1	2563.3	2572.8
17.5°	2400.8	2417.4	2431.7	2445.9	2466.1	2482.7	2496.9	2513.5	2524.2	2536.1	2549.1
20°	2373.5	2389.0	2404.4	2416.3	2436.4	2450.6	2466.1	2481.5	2489.8	2492.2	2512.3
22.5°	2339.2	2349.8	2361.7	2380.7	2392.5	2405.6	2419.8	2434.0	2442.3	2455.4	2462.5
25°	2282.2	2292.9	2305.9	2314.2	2328.5	2339.2	2353.4	2368.8	2373.5	2383.1	2390.1
27.5°	2202.7	2208.7	2214.6	2221.7	2230.0	2235.9	2244.2	2251.4	2256.1	2260.8	2265.6
30°	2077.0	2077.0	2077.0	2072.2	2075.8	2079.4	2080.5	2079.4	2079.4	2078.2	2078.2
32.5°	1910.9	1901.5	1890.8	1881.3	1877.7	1873.0	1870.6	1867.0	1861.1	1857.6	1858.7
35°	1686.7	1665.4	1652.4	1640.5	1631.0	1623.9	1620.3	1616.8	1615.6	1610.9	1606.1
37.5°	1406.8	1391.4	1381.9	1374.8	1366.5	1359.4	1360.5	1361.8	1365.3	1362.9	1364.1
40°	1110.3	1106.7	1110.3	1102.0	1099.6	1102.0	1107.9	1116.2	1121.0	1125.7	1134.0
42.5°	844.6	850.5	858.8	858.8	862.3	867.1	874.2	887.3	894.4	902.7	912.2
45°	635.8	642.9	653.6	657.1	659.5	665.4	673.8	684.4	689.2	696.3	704.6
47.5°	489.9	494.6	500.5	506.5	512.4	514.8	523.1	523.1	529.1	533.8	536.1
50°	382.0	386.7	391.4	395.0	397.4	400.9	403.3	406.9	408.0	410.4	411.6
52.5°	298.9	304.9	304.9	307.2	310.8	314.3	313.2	314.3	315.5	315.5	319.1
55°	233.7	233.7	237.2	237.2	239.6	238.4	239.6	239.6	239.6	239.6	240.8
57.5°	174.4	175.6	179.1	176.7	175.6	177.9	175.6	177.9	176.7	179.1	175.6
60°	134.0	134.0	135.2	135.2	136.4	136.4	136.4	135.2	135.2	134.0	134.0
62.5°	100.8	102.0	103.2	102.0	102.0	102.0	100.8	100.8	99.6	98.4	98.4
65°	67.6	66.4	68.8	66.4	67.6	67.6	66.4	67.6	64.1	65.2	64.1
67.5°	48.6	47.5	46.3	47.5	46.3	45.1	45.1	46.3	47.5	43.9	43.9
70°	32.0	33.2	32.0	33.2	34.4	34.4	33.2	32.0	33.2	30.9	32.0
72.5°	20.2	20.2	20.2	20.2	20.2	21.3	21.3	21.3	19.0	19.0	17.8
75°	9.5	13.0	10.7	9.5	13.0	13.0	11.9	11.9	10.7	10.7	10.7
77.5°	9.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1	5.9	7.1	5.9
80°	4.7	4.7	4.7	3.6	4.7	4.7	5.9	4.7	4.7	3.6	5.9
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: P244954

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3
2.5°	2456.6	2455.4	2456.6	2457.8	2456.6	2455.4	2456.6	2457.8	2453.0	2451.8	2454.2
5°	2508.8	2508.8	2511.1	2512.3	2511.1	2508.8	2508.8	2504.0	2500.5	2496.9	2495.7
7.5°	2553.8	2556.2	2558.6	2559.7	2558.6	2556.2	2553.8	2546.7	2539.6	2533.7	2528.9
10°	2581.1	2584.7	2589.4	2591.8	2589.4	2584.7	2581.1	2572.8	2563.3	2553.8	2546.7
12.5°	2593.0	2596.6	2602.5	2601.3	2602.5	2596.6	2593.0	2581.1	2570.4	2557.4	2546.7
15°	2584.7	2589.4	2595.3	2597.7	2595.3	2589.4	2584.7	2572.8	2563.3	2549.1	2538.4
17.5°	2558.6	2565.7	2569.3	2572.8	2569.3	2565.7	2558.6	2549.1	2536.1	2524.2	2513.5
20°	2523.0	2527.8	2532.5	2533.7	2532.5	2527.8	2523.0	2512.3	2492.2	2489.8	2481.5
22.5°	2472.0	2475.6	2486.2	2482.7	2486.2	2475.6	2472.0	2462.5	2455.4	2442.3	2434.0
25°	2398.4	2402.0	2403.2	2404.4	2403.2	2402.0	2398.4	2390.1	2383.1	2373.5	2368.8
27.5°	2271.5	2271.5	2273.9	2275.1	2273.9	2271.5	2271.5	2265.6	2260.8	2256.1	2251.4
30°	2079.4	2079.4	2079.4	2085.3	2079.4	2079.4	2079.4	2078.2	2078.2	2079.4	2079.4
32.5°	1857.6	1855.2	1852.8	1855.2	1852.8	1855.2	1857.6	1858.7	1857.6	1861.1	1867.0
35°	1606.1	1604.9	1608.5	1603.7	1608.5	1604.9	1606.1	1606.1	1610.9	1615.6	1616.8
37.5°	1365.3	1362.9	1367.7	1362.9	1367.7	1362.9	1365.3	1364.1	1362.9	1365.3	1361.8
40°	1136.4	1138.7	1138.7	1148.2	1138.7	1138.7	1136.4	1134.0	1125.7	1121.0	1116.2
42.5°	916.9	924.0	921.7	928.8	921.7	924.0	916.9	912.2	902.7	894.4	887.3
45°	709.3	714.1	714.1	716.4	714.1	714.1	709.3	704.6	696.3	689.2	684.4
47.5°	544.4	544.4	544.4	545.7	544.4	544.4	544.4	536.1	533.8	529.1	523.1
50°	414.0	415.2	416.4	417.5	416.4	415.2	414.0	411.6	410.4	408.0	406.9
52.5°	317.9	319.1	316.7	319.1	316.7	319.1	317.9	319.1	315.5	315.5	314.3
55°	240.8	239.6	240.8	242.0	240.8	239.6	240.8	240.8	239.6	239.6	239.6
57.5°	176.7	174.4	174.4	174.4	174.4	174.4	176.7	175.6	179.1	176.7	177.9
60°	131.7	132.9	132.9	134.0	132.9	132.9	131.7	134.0	134.0	135.2	135.2
62.5°	97.3	100.8	98.4	100.8	98.4	100.8	97.3	98.4	98.4	99.6	100.8
65°	62.9	62.9	62.9	64.1	62.9	62.9	62.9	64.1	65.2	64.1	67.6
67.5°	42.7	43.9	46.3	45.1	46.3	43.9	42.7	43.9	43.9	47.5	46.3
70°	34.4	30.9	30.9	34.4	30.9	30.9	34.4	32.0	30.9	33.2	32.0
72.5°	20.2	17.8	20.2	20.2	20.2	17.8	20.2	17.8	19.0	19.0	21.3
75°	10.7	9.5	8.3	11.9	8.3	9.5	10.7	10.7	10.7	10.7	11.9
77.5°	7.1	5.9	8.3	8.3	8.3	5.9	7.1	5.9	7.1	5.9	7.1
80°	3.6	4.7	3.6	5.9	3.6	4.7	3.6	5.9	3.6	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: P244954

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3
2.5°	2454.2	2450.6	2451.8	2444.7	2444.7	2442.3	2443.5	2437.6	2435.2	2432.9	2436.4
5°	2489.8	2483.9	2479.1	2468.4	2462.5	2455.4	2451.8	2442.3	2434.0	2426.9	2425.7
7.5°	2518.2	2505.2	2496.9	2482.7	2472.0	2463.7	2451.8	2438.8	2428.1	2418.6	2411.5
10°	2530.1	2517.1	2504.0	2486.2	2474.4	2458.9	2447.1	2430.5	2416.3	2403.2	2394.9
12.5°	2531.3	2514.7	2502.8	2482.7	2467.2	2450.6	2437.6	2418.6	2402.0	2389.0	2375.9
15°	2520.6	2505.2	2491.0	2469.6	2454.2	2438.8	2423.4	2403.2	2387.8	2372.4	2362.9
17.5°	2496.9	2482.7	2466.1	2445.9	2431.7	2417.4	2400.8	2384.2	2366.4	2349.8	2337.9
20°	2466.1	2450.6	2436.4	2416.3	2404.4	2389.0	2373.5	2355.8	2341.5	2324.9	2311.9
22.5°	2419.8	2405.6	2392.5	2380.7	2361.7	2349.8	2339.2	2319.0	2304.7	2289.3	2275.1
25°	2353.4	2339.2	2328.5	2314.2	2305.9	2292.9	2282.2	2264.4	2251.4	2237.1	2225.3
27.5°	2244.2	2235.9	2230.0	2221.7	2214.6	2208.7	2202.7	2188.5	2179.0	2166.0	2154.1
30°	2080.5	2079.4	2075.8	2072.2	2077.0	2077.0	2077.0	2074.6	2066.3	2056.8	2048.5
32.5°	1870.6	1873.0	1877.7	1881.3	1890.8	1901.5	1910.9	1915.7	1915.7	1909.8	1906.2
35°	1620.3	1623.9	1631.0	1640.5	1652.4	1665.4	1686.7	1691.5	1695.0	1695.0	1690.3
37.5°	1360.5	1359.4	1366.5	1374.8	1381.9	1391.4	1406.8	1410.4	1416.3	1413.9	1409.2
40°	1107.9	1102.0	1099.6	1102.0	1110.3	1106.7	1110.3	1107.9	1107.9	1099.6	1099.6
42.5°	874.2	867.1	862.3	858.8	858.8	850.5	844.6	838.7	835.1	829.1	828.0
45°	673.8	665.4	659.5	657.1	653.6	642.9	635.8	628.7	620.4	618.0	619.2
47.5°	523.1	514.8	512.4	506.5	500.5	494.6	489.9	481.6	480.4	475.6	480.4
50°	403.3	400.9	397.4	395.0	391.4	386.7	382.0	377.2	374.8	374.8	376.0
52.5°	313.2	314.3	310.8	307.2	304.9	304.9	298.9	297.7	297.7	293.0	297.7
55°	239.6	238.4	239.6	237.2	237.2	233.7	233.7	230.1	230.1	226.5	228.9
57.5°	175.6	177.9	175.6	176.7	179.1	175.6	174.4	170.8	173.2	170.8	172.0
60°	136.4	136.4	136.4	135.2	135.2	134.0	134.0	132.9	132.9	130.5	132.9
62.5°	100.8	102.0	102.0	102.0	103.2	102.0	100.8	102.0	100.8	100.8	102.0
65°	66.4	67.6	67.6	66.4	68.8	66.4	67.6	68.8	70.0	68.8	70.0
67.5°	45.1	45.1	46.3	47.5	46.3	47.5	48.6	47.5	48.6	51.0	48.6
70°	33.2	34.4	34.4	33.2	32.0	33.2	32.0	35.6	35.6	35.6	37.9
72.5°	21.3	21.3	20.2	20.2	20.2	20.2	20.2	23.7	21.3	20.2	22.6
75°	11.9	13.0	13.0	9.5	10.7	13.0	9.5	10.7	14.3	11.9	14.3
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	9.5	8.3	8.3	8.3	9.5
80°	5.9	4.7	4.7	3.6	4.7	4.7	4.7	7.1	5.9	5.9	7.1
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: P244954

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3
2.5°	2426.9	2426.9	2425.7	2423.4	2418.6	2418.6	2417.4	2413.9	2411.5	2410.3	2410.3
5°	2415.0	2410.3	2405.6	2392.5	2392.5	2390.1	2383.1	2378.3	2375.9	2370.0	2367.6
7.5°	2404.4	2390.1	2381.8	2373.5	2362.9	2358.1	2349.8	2346.2	2337.9	2332.0	2328.5
10°	2378.3	2368.8	2358.1	2345.1	2336.8	2327.3	2317.8	2310.7	2300.0	2294.0	2289.3
12.5°	2360.5	2346.2	2336.8	2322.5	2308.3	2300.0	2287.0	2278.7	2268.0	2256.1	2249.0
15°	2343.9	2328.5	2315.4	2300.0	2284.6	2275.1	2259.7	2250.2	2234.8	2222.9	2214.6
17.5°	2319.0	2305.9	2291.7	2272.7	2258.5	2246.6	2230.0	2218.2	2203.9	2188.5	2180.2
20°	2292.9	2277.4	2263.2	2244.2	2230.0	2215.8	2199.2	2186.1	2169.5	2155.3	2145.8
22.5°	2258.5	2240.7	2228.8	2209.8	2193.2	2177.8	2162.4	2147.0	2131.6	2119.7	2109.0
25°	2208.7	2189.7	2176.6	2161.2	2145.8	2134.0	2115.0	2105.5	2090.1	2079.4	2068.7
27.5°	2137.5	2123.3	2111.4	2096.0	2082.9	2073.5	2059.2	2049.7	2036.6	2027.2	2018.9
30°	2033.1	2021.3	2010.6	1995.1	1985.7	1977.4	1964.3	1956.0	1946.5	1935.8	1933.5
32.5°	1893.2	1883.6	1873.0	1862.3	1855.2	1850.4	1839.7	1835.0	1825.5	1819.6	1813.7
35°	1682.0	1673.7	1667.8	1663.0	1660.7	1661.8	1659.5	1664.2	1666.6	1665.4	1666.6
37.5°	1405.6	1400.9	1403.3	1406.8	1418.7	1434.1	1448.3	1469.7	1483.9	1498.2	1511.2
40°	1097.2	1100.8	1110.3	1131.6	1162.5	1196.9	1228.9	1269.2	1309.6	1338.0	1364.1
42.5°	828.0	838.7	862.3	893.2	939.5	990.4	1040.3	1099.6	1148.2	1195.7	1228.9
45°	622.8	637.0	667.8	710.5	761.5	820.8	883.7	950.1	1008.3	1056.9	1093.7
47.5°	485.2	498.2	529.1	574.1	637.0	698.7	763.9	832.7	893.2	940.6	972.7
50°	383.1	399.7	427.0	474.5	537.4	602.6	670.2	737.8	794.8	835.1	863.6
52.5°	301.3	316.7	342.8	392.6	456.7	521.9	584.8	651.2	701.0	740.2	759.2
55°	233.7	247.9	275.2	316.7	377.2	441.3	504.1	561.1	607.3	635.8	653.6
57.5°	177.9	188.6	207.6	249.1	303.7	363.0	416.4	473.3	508.9	529.1	540.9
60°	135.2	143.5	163.7	195.7	245.5	296.6	341.6	384.3	412.8	429.4	441.3
62.5°	102.0	111.5	125.7	153.0	191.0	232.5	270.4	302.5	326.2	336.9	345.2
65°	70.0	77.1	87.8	109.1	141.2	170.8	200.5	224.2	239.6	251.5	256.2
67.5°	52.2	56.9	62.9	79.5	102.0	125.7	145.9	162.5	179.1	183.9	192.2
70°	39.2	42.7	48.6	60.5	73.5	90.1	106.8	116.3	128.1	136.4	138.8
72.5°	24.9	26.1	32.0	39.2	49.8	60.5	71.2	79.5	86.6	91.3	93.7
75°	14.3	21.3	21.3	28.5	35.6	40.3	47.5	53.4	56.9	60.5	60.5
77.5°	9.5	13.0	14.3	17.8	21.3	27.3	33.2	36.8	40.3	41.5	41.5
80°	8.3	9.5	9.5	13.0	15.4	20.2	23.7	24.9	27.3	28.5	30.9
82.5°	3.6	4.7	5.9	9.5	10.7	10.7	14.3	15.4	17.8	19.0	19.0
85°	1.2	2.4	2.4	3.6	5.9	7.1	8.3	9.5	10.7	10.7	11.9
87.5°	1.2	1.2	0.0	1.2	2.4	2.4	4.7	4.7	4.7	7.1	7.1
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: P244954

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3	2429.3
2.5°	2408.0	2409.1	2404.4	2403.2	2400.8	2402.0	2404.4
5°	2364.1	2365.2	2360.5	2355.8	2355.8	2354.5	2355.8
7.5°	2322.5	2323.7	2316.6	2314.2	2309.5	2310.7	2310.7
10°	2281.0	2281.0	2270.4	2269.1	2265.6	2264.4	2264.4
12.5°	2240.7	2237.1	2228.8	2224.1	2226.5	2219.3	2219.3
15°	2205.1	2199.2	2188.5	2184.9	2179.0	2176.6	2176.6
17.5°	2168.3	2163.6	2154.1	2147.0	2139.9	2138.7	2139.9
20°	2132.7	2128.0	2116.1	2111.4	2105.5	2105.5	2103.1
22.5°	2097.1	2092.4	2081.8	2078.2	2069.9	2069.9	2071.1
25°	2060.4	2056.8	2044.9	2042.6	2041.4	2036.6	2039.0
27.5°	2010.6	2008.2	1998.7	1995.1	1990.4	1989.2	1991.6
30°	1919.2	1915.7	1908.6	1905.0	1896.7	1897.9	1900.2
32.5°	1805.4	1800.6	1791.1	1787.5	1780.5	1778.1	1779.2
35°	1663.0	1659.5	1651.2	1651.2	1644.1	1641.7	1644.1
37.5°	1518.3	1521.8	1518.3	1521.8	1518.3	1517.1	1518.3
40°	1381.9	1395.0	1397.3	1410.4	1405.6	1412.7	1411.6
42.5°	1251.4	1272.7	1281.1	1291.7	1289.4	1294.1	1297.7
45°	1119.7	1137.6	1145.9	1153.0	1154.2	1156.5	1157.7
47.5°	995.2	1009.4	1010.6	1018.9	1017.7	1017.7	1021.3
50°	879.0	888.5	890.8	896.8	892.0	889.6	890.8
52.5°	771.0	780.5	778.1	780.5	774.6	772.2	773.4
55°	660.7	665.4	665.4	665.4	658.3	658.3	658.3
57.5°	548.0	549.2	546.8	548.0	546.8	539.7	538.5
60°	444.8	444.8	443.6	444.8	441.3	437.7	437.7
62.5°	347.5	349.9	354.7	349.9	347.5	349.9	346.4
65°	259.8	264.5	263.3	265.7	264.5	264.5	262.1
67.5°	195.7	196.9	198.1	199.3	199.3	199.3	199.3
70°	143.5	147.1	145.9	145.9	145.9	145.9	153.0
72.5°	96.1	100.8	99.6	102.0	102.0	104.4	102.0
75°	65.2	70.0	67.6	71.2	70.0	67.6	73.5
77.5°	43.9	46.3	47.5	48.6	47.5	46.3	47.5
80°	30.9	33.2	32.0	33.2	33.2	33.2	34.4
82.5°	19.0	22.6	21.3	22.6	21.3	22.6	22.6
85°	13.0	14.3	11.9	14.3	13.0	13.0	15.4
87.5°	8.3	7.1	7.1	8.3	7.1	8.3	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)