

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: P245002

Luminaire Tested: **LD8B40D010 ER8B40940 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245002
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 ER8B40940 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3885.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

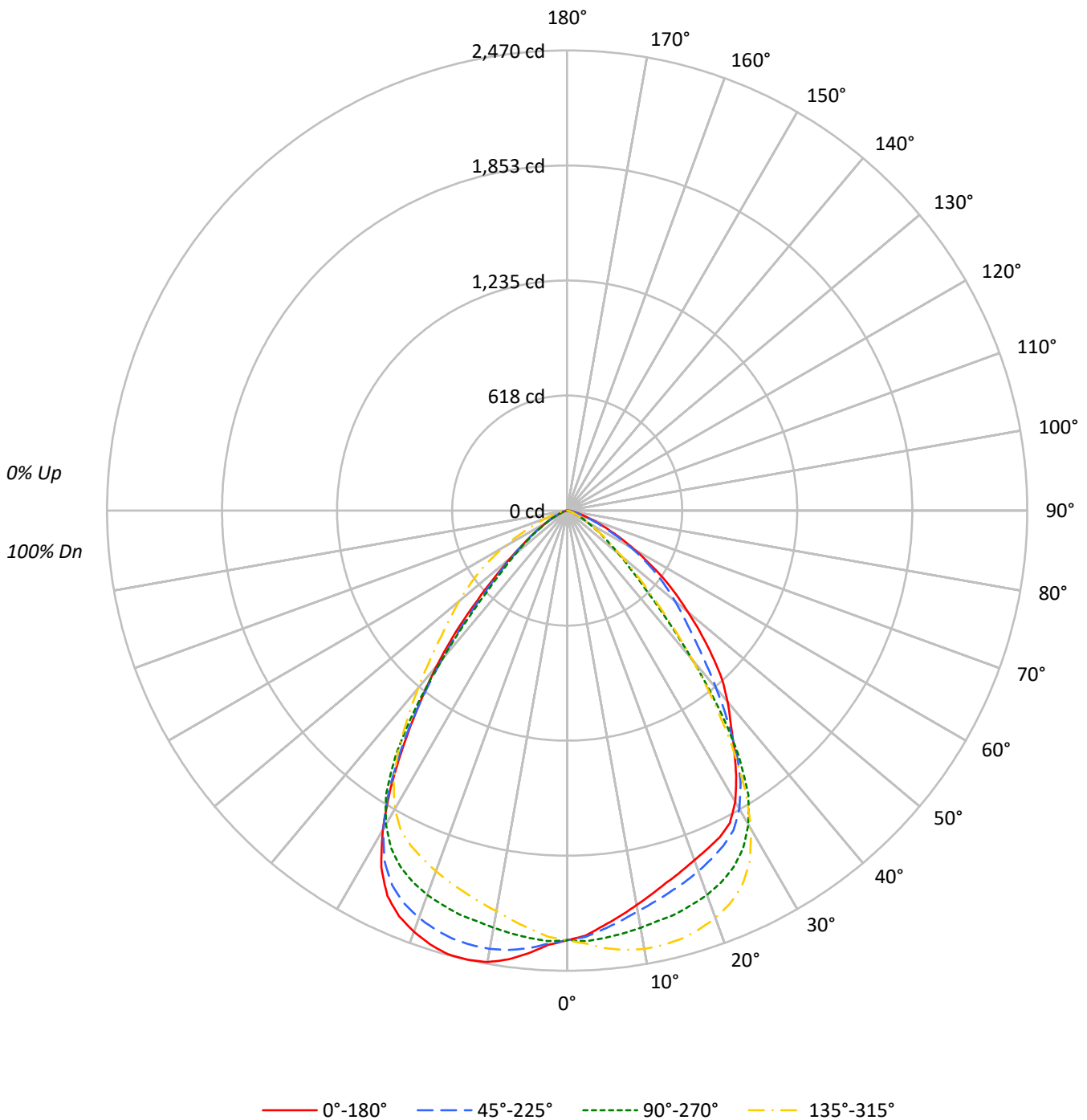
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	71121	71121	71121	71121
5°	69232	71287	73835	71287
10°	67318	71194	77049	71194
15°	65971	71619	78734	71619
20°	65522	72026	78937	72026
25°	65867	71883	77670	71883
30°	64238	69251	70494	69251
35°	58759	60411	57317	60411
40°	53944	42021	43885	42021
45°	47935	25638	29663	25638
50°	40571	17126	19016	17126
55°	33601	11688	12349	11688
60°	25631	7777	7845	7777
65°	18161	4845	4436	4845
70°	13100	3246	2948	3246
75°	8316	1608	1346	1608
80°	5807	1208	994	1208
85°	5166	0	389	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	5.7
10°-20°	635.7	16.4
20°-30°	962.6	24.8
30°-40°	964.8	24.8
40°-50°	605.8	15.6
50°-60°	322.8	8.3
60°-70°	132.8	3.4
70°-80°	35.1	0.9
80°-90°	5.9	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°	1817.8	46.8
0°-40°	2782.6	71.6
0°-60°	3711.2	95.5
0°-90°	3885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3885.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2306	2306	2306	2306	2306	
5°	2237	2303	2385	2303	2237	211
15°	2066	2243	2466	2243	2066	584
25°	1936	2113	2283	2113	1936	888
35°	1561	1605	1523	1605	1561	978
45°	1099	588	680	588	1099	845
55°	625	217	230	217	625	557
65°	249	66	61	66	249	258
75°	70	14	11	14	70	79
85°	15	0	1	0	15	16
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°	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4
2.5°	2282.8	2280.5	2279.4	2281.6	2282.8	2287.3	2286.1	2288.4	2288.4	2289.5	2291.8
5°	2236.6	2235.4	2236.6	2236.6	2241.1	2245.6	2244.5	2247.9	2250.1	2255.7	2258.0
7.5°	2193.8	2193.8	2192.6	2197.1	2199.4	2206.2	2205.0	2210.7	2214.1	2219.7	2227.6
10°	2149.9	2149.9	2151.0	2154.4	2155.5	2165.6	2165.6	2173.5	2178.0	2183.7	2193.8
12.5°	2107.1	2107.1	2113.8	2111.6	2116.1	2124.0	2127.3	2135.2	2142.0	2153.2	2163.4
15°	2066.5	2066.5	2068.8	2074.4	2077.8	2087.9	2093.5	2102.6	2110.5	2121.7	2136.4
17.5°	2031.6	2030.5	2031.6	2038.4	2045.1	2054.1	2058.6	2069.9	2077.8	2092.4	2106.0
20°	1996.7	1999.0	1999.0	2004.6	2009.1	2020.3	2024.8	2037.3	2046.3	2059.8	2075.6
22.5°	1966.3	1965.2	1965.2	1973.1	1976.5	1986.6	1991.1	2002.3	2012.5	2023.7	2038.4
25°	1935.9	1933.6	1938.2	1939.3	1941.5	1952.8	1956.1	1964.0	1974.2	1984.3	1999.0
27.5°	1890.8	1888.6	1889.7	1894.2	1897.6	1906.6	1908.9	1916.7	1924.6	1933.6	1946.0
30°	1804.1	1801.9	1800.8	1808.6	1812.0	1818.8	1822.1	1835.7	1837.9	1848.1	1857.0
32.5°	1689.2	1688.1	1690.4	1697.1	1700.5	1709.5	1714.0	1721.9	1727.5	1733.2	1742.2
35°	1560.9	1558.6	1560.9	1567.7	1567.7	1575.5	1578.9	1582.3	1581.1	1582.3	1580.0
37.5°	1441.5	1440.4	1441.5	1444.9	1441.5	1444.9	1441.5	1434.8	1422.4	1408.8	1395.3
40°	1340.1	1341.3	1334.5	1339.0	1326.6	1324.4	1312.0	1295.1	1270.3	1243.3	1205.0
42.5°	1232.0	1228.7	1224.2	1226.4	1216.3	1208.4	1188.1	1166.7	1135.2	1090.2	1043.9
45°	1099.2	1098.0	1095.8	1094.7	1087.9	1080.0	1063.1	1038.3	1003.4	957.3	902.1
47.5°	969.6	966.3	966.3	967.4	959.5	958.4	944.8	923.5	893.1	848.0	790.6
50°	845.7	844.6	846.9	851.4	845.7	843.5	834.5	819.9	792.8	754.6	700.5
52.5°	734.3	733.1	735.4	741.0	738.7	741.0	732.0	720.8	702.7	665.6	618.3
55°	625.0	625.0	625.0	631.8	631.8	631.8	627.3	620.5	603.6	576.6	532.7
57.5°	511.3	512.4	519.2	520.3	519.2	521.4	520.3	513.5	502.3	483.2	449.4
60°	415.6	415.6	418.9	422.3	421.2	422.3	422.3	418.9	407.7	391.9	364.9
62.5°	328.8	332.2	329.9	332.2	336.7	332.2	329.9	327.7	319.8	309.7	287.2
65°	248.9	251.1	251.1	252.3	250.0	251.1	246.7	243.3	238.8	227.5	212.9
67.5°	189.2	189.2	189.2	189.2	188.1	186.9	185.8	182.5	174.6	170.1	154.3
70°	145.3	138.5	138.5	138.5	138.5	139.7	136.3	131.8	129.5	121.6	110.4
72.5°	96.8	99.1	96.8	96.8	94.6	95.7	91.2	89.0	86.7	82.2	75.5
75°	69.8	64.2	66.4	67.6	64.2	66.4	61.9	57.4	57.4	54.0	50.7
77.5°	45.1	43.9	45.1	46.2	45.1	43.9	41.7	39.4	39.4	38.3	34.9
80°	32.7	31.5	31.5	31.5	30.4	31.5	29.3	29.3	27.0	25.9	23.6
82.5°	21.4	21.4	20.3	21.4	20.3	21.4	18.0	18.0	18.0	16.9	14.6
85°	14.6	12.4	12.4	13.5	11.3	13.5	12.4	11.3	10.2	10.2	9.0
87.5°	6.8	7.9	6.8	7.9	6.8	6.8	7.9	6.8	6.8	4.5	4.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4
2.5°	2295.1	2296.2	2296.2	2300.8	2303.0	2304.1	2304.1	2313.2	2309.8	2312.1	2314.3
5°	2262.5	2269.2	2271.5	2271.5	2283.9	2288.4	2292.9	2303.0	2304.1	2310.9	2318.8
7.5°	2230.9	2238.8	2243.4	2253.5	2261.3	2269.2	2282.8	2289.5	2296.2	2305.3	2315.4
10°	2200.5	2209.6	2218.6	2226.4	2238.8	2249.0	2258.0	2273.7	2281.6	2294.0	2307.5
12.5°	2171.3	2183.7	2191.5	2205.0	2218.6	2227.6	2241.1	2255.7	2268.1	2280.5	2296.2
15°	2145.4	2160.0	2169.0	2183.7	2198.3	2210.7	2225.3	2243.4	2252.4	2267.0	2281.6
17.5°	2117.2	2133.0	2144.3	2157.7	2175.8	2189.3	2201.7	2219.7	2230.9	2246.7	2263.6
20°	2087.9	2103.7	2117.2	2130.7	2148.8	2162.2	2176.9	2194.9	2207.3	2223.1	2236.6
22.5°	2053.0	2067.7	2082.3	2098.0	2116.1	2127.3	2144.3	2160.0	2173.5	2188.2	2201.7
25°	2008.0	2026.0	2037.3	2051.9	2066.5	2078.9	2096.9	2112.7	2124.0	2137.5	2149.9
27.5°	1955.0	1968.6	1977.6	1989.9	2004.6	2015.9	2029.3	2045.1	2056.4	2068.8	2077.8
30°	1864.9	1877.3	1885.2	1894.2	1908.9	1919.0	1930.3	1944.9	1952.8	1961.8	1969.7
32.5°	1746.7	1756.8	1761.3	1768.1	1778.2	1788.3	1797.4	1809.8	1813.1	1818.8	1818.8
35°	1575.5	1577.8	1576.6	1578.9	1583.4	1589.0	1596.9	1604.8	1609.3	1609.3	1605.9
37.5°	1375.1	1361.6	1346.9	1335.7	1332.3	1330.0	1334.5	1337.9	1342.4	1344.6	1339.0
40°	1166.7	1136.3	1103.6	1074.4	1054.1	1045.1	1041.7	1043.9	1043.9	1051.8	1051.8
42.5°	987.7	940.3	891.9	848.0	818.7	796.2	786.1	786.1	787.2	792.8	796.2
45°	839.0	779.3	723.0	674.6	634.0	604.7	591.2	587.9	586.8	589.0	596.9
47.5°	725.3	663.3	604.7	545.1	502.3	473.0	460.6	456.1	451.6	456.1	457.2
50°	636.3	572.1	510.2	450.5	405.4	379.5	363.7	357.0	355.9	355.9	358.1
52.5°	555.2	495.5	433.6	372.8	325.5	300.7	286.1	282.7	278.2	282.7	282.7
55°	478.6	418.9	358.1	300.7	261.3	235.4	221.9	217.4	215.1	218.5	218.5
57.5°	395.3	344.6	288.3	236.5	197.1	179.1	168.9	163.3	162.1	164.4	162.1
60°	324.3	281.6	233.1	185.8	155.4	136.3	128.4	126.1	123.9	126.1	126.1
62.5°	256.8	220.7	181.3	145.3	119.4	105.9	96.8	96.8	95.7	95.7	96.8
65°	190.3	162.1	134.0	103.6	83.3	73.2	66.4	66.4	65.3	66.4	65.3
67.5°	138.5	119.4	96.8	75.5	59.7	54.0	49.6	46.2	48.4	46.2	45.1
70°	101.4	85.6	69.8	57.4	46.2	40.6	37.2	36.0	33.8	33.8	33.8
72.5°	67.6	57.4	47.3	37.2	30.4	24.8	23.6	21.4	19.1	20.3	22.5
75°	45.1	38.3	33.8	27.0	20.3	20.3	13.5	13.5	11.3	13.5	10.2
77.5°	31.5	25.9	20.3	16.9	13.5	12.4	9.0	9.0	7.9	7.9	7.9
80°	22.5	19.1	14.6	12.4	9.0	9.0	7.9	6.8	5.6	5.6	6.8
82.5°	13.5	10.2	10.2	9.0	5.6	4.5	3.4	4.5	2.3	2.3	2.3
85°	7.9	6.8	5.6	3.4	2.3	2.3	1.1	0.0	1.1	1.1	0.0
87.5°	4.5	2.3	2.3	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.3
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°	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4
2.5°	2319.9	2318.8	2321.0	2321.0	2327.8	2326.7	2330.0	2330.0	2327.8	2328.9	2333.4
5°	2327.8	2331.2	2337.9	2343.6	2353.7	2358.2	2363.8	2369.5	2370.6	2374.0	2377.4
7.5°	2327.8	2339.1	2347.0	2357.1	2370.6	2378.5	2390.9	2401.0	2405.5	2411.1	2417.9
10°	2323.3	2334.5	2349.2	2360.5	2377.4	2389.7	2402.1	2417.9	2424.7	2433.6	2442.7
12.5°	2314.3	2326.7	2342.4	2357.1	2376.2	2387.5	2403.2	2417.9	2428.0	2440.4	2450.6
15°	2300.8	2315.4	2330.0	2344.7	2364.9	2378.5	2393.1	2410.0	2420.2	2433.6	2442.7
17.5°	2279.4	2295.1	2308.7	2322.2	2341.3	2357.1	2370.6	2386.4	2396.5	2407.8	2420.2
20°	2253.5	2268.1	2282.8	2294.0	2313.2	2326.7	2341.3	2356.0	2363.8	2366.1	2385.3
22.5°	2220.8	2230.9	2242.2	2260.2	2271.5	2283.9	2297.4	2310.9	2318.8	2331.2	2337.9
25°	2166.7	2176.9	2189.3	2197.1	2210.7	2220.8	2234.3	2249.0	2253.5	2262.5	2269.2
27.5°	2091.3	2096.9	2102.6	2109.3	2117.2	2122.8	2130.7	2137.5	2142.0	2146.5	2151.0
30°	1971.9	1971.9	1971.9	1967.4	1970.8	1974.2	1975.3	1974.2	1974.2	1973.1	1973.1
32.5°	1814.3	1805.3	1795.1	1786.1	1782.7	1778.2	1776.0	1772.6	1767.0	1763.6	1764.7
35°	1601.4	1581.1	1568.8	1557.5	1548.5	1541.7	1538.4	1535.0	1533.9	1529.4	1524.8
37.5°	1335.7	1321.0	1312.0	1305.2	1297.4	1290.6	1291.7	1292.9	1296.2	1294.0	1295.1
40°	1054.1	1050.7	1054.1	1046.2	1043.9	1046.2	1051.8	1059.8	1064.2	1068.7	1076.6
42.5°	801.8	807.4	815.4	815.4	818.7	823.3	830.0	842.4	849.1	857.0	866.0
45°	603.6	610.4	620.5	623.9	626.2	631.8	639.7	649.8	654.3	661.1	668.9
47.5°	465.1	469.6	475.2	480.9	486.5	488.8	496.6	496.6	502.3	506.8	509.0
50°	362.6	367.1	371.6	375.0	377.3	380.7	382.9	386.3	387.4	389.7	390.8
52.5°	283.8	289.4	289.4	291.7	295.0	298.4	297.3	298.4	299.5	299.5	302.9
55°	221.9	221.9	225.2	225.2	227.5	226.3	227.5	227.5	227.5	227.5	228.6
57.5°	165.5	166.7	170.1	167.8	166.7	168.9	166.7	168.9	167.8	170.1	166.7
60°	127.2	127.2	128.4	128.4	129.5	129.5	129.5	128.4	128.4	127.2	127.2
62.5°	95.7	96.8	98.0	96.8	96.8	96.8	95.7	95.7	94.6	93.5	93.5
65°	64.2	63.1	65.3	63.1	64.2	64.2	63.1	64.2	60.8	61.9	60.8
67.5°	46.2	45.1	43.9	45.1	43.9	42.8	42.8	43.9	45.1	41.7	41.7
70°	30.4	31.5	30.4	31.5	32.7	32.7	31.5	30.4	31.5	29.3	30.4
72.5°	19.1	19.1	19.1	19.1	19.1	20.3	20.3	20.3	18.0	18.0	16.9
75°	9.0	12.4	10.2	9.0	12.4	12.4	11.3	11.3	10.2	10.2	10.2
77.5°	9.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.6	6.8	5.6
80°	4.5	4.5	4.5	3.4	4.5	4.5	5.6	4.5	4.5	3.4	5.6
82.5°	2.3	2.3	2.3	0.0	1.1	2.3	2.3	1.1	2.3	2.3	1.1
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: P245002

CATALOG NUMBER: LD8B40D010 ER8B40940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4
2.5°	2332.3	2331.2	2332.3	2333.4	2332.3	2331.2	2332.3	2333.4	2328.9	2327.8	2330.0
5°	2381.9	2381.9	2384.1	2385.3	2384.1	2381.9	2381.9	2377.4	2374.0	2370.6	2369.5
7.5°	2424.7	2426.9	2429.1	2430.3	2429.1	2426.9	2424.7	2417.9	2411.1	2405.5	2401.0
10°	2450.6	2453.9	2458.4	2460.7	2458.4	2453.9	2450.6	2442.7	2433.6	2424.7	2417.9
12.5°	2461.8	2465.2	2470.8	2469.7	2470.8	2465.2	2461.8	2450.6	2440.4	2428.0	2417.9
15°	2453.9	2458.4	2464.1	2466.3	2464.1	2458.4	2453.9	2442.7	2433.6	2420.2	2410.0
17.5°	2429.1	2435.9	2439.3	2442.7	2439.3	2435.9	2429.1	2420.2	2407.8	2396.5	2386.4
20°	2395.4	2399.9	2404.4	2405.5	2404.4	2399.9	2395.4	2385.3	2366.1	2363.8	2356.0
22.5°	2347.0	2350.3	2360.5	2357.1	2360.5	2350.3	2347.0	2337.9	2331.2	2318.8	2310.9
25°	2277.1	2280.5	2281.6	2282.8	2281.6	2280.5	2277.1	2269.2	2262.5	2253.5	2249.0
27.5°	2156.6	2156.6	2158.9	2160.0	2158.9	2156.6	2156.6	2151.0	2146.5	2142.0	2137.5
30°	1974.2	1974.2	1974.2	1979.8	1974.2	1974.2	1974.2	1973.1	1973.1	1974.2	1974.2
32.5°	1763.6	1761.3	1759.1	1761.3	1759.1	1761.3	1763.6	1764.7	1763.6	1767.0	1772.6
35°	1524.8	1523.7	1527.1	1522.6	1527.1	1523.7	1524.8	1524.8	1529.4	1533.9	1535.0
37.5°	1296.2	1294.0	1298.5	1294.0	1298.5	1294.0	1296.2	1295.1	1294.0	1296.2	1292.9
40°	1078.9	1081.1	1081.1	1090.2	1081.1	1081.1	1078.9	1076.6	1068.7	1064.2	1059.8
42.5°	870.5	877.3	875.0	881.8	875.0	877.3	870.5	866.0	857.0	849.1	842.4
45°	673.4	678.0	678.0	680.2	678.0	678.0	673.4	668.9	661.1	654.3	649.8
47.5°	516.9	516.9	516.9	518.1	516.9	516.9	516.9	509.0	506.8	502.3	496.6
50°	393.0	394.2	395.3	396.4	395.3	394.2	393.0	390.8	389.7	387.4	386.3
52.5°	301.8	302.9	300.7	302.9	300.7	302.9	301.8	302.9	299.5	299.5	298.4
55°	228.6	227.5	228.6	229.7	228.6	227.5	228.6	228.6	227.5	227.5	227.5
57.5°	167.8	165.5	165.5	165.5	165.5	165.5	167.8	166.7	170.1	167.8	168.9
60°	125.0	126.1	126.1	127.2	126.1	126.1	125.0	127.2	127.2	128.4	128.4
62.5°	92.3	95.7	93.5	95.7	93.5	95.7	92.3	93.5	93.5	94.6	95.7
65°	59.7	59.7	59.7	60.8	59.7	59.7	59.7	60.8	61.9	60.8	64.2
67.5°	40.6	41.7	43.9	42.8	43.9	41.7	40.6	41.7	41.7	45.1	43.9
70°	32.7	29.3	29.3	32.7	29.3	29.3	32.7	30.4	29.3	31.5	30.4
72.5°	19.1	16.9	19.1	19.1	19.1	16.9	19.1	16.9	18.0	18.0	20.3
75°	10.2	9.0	7.9	11.3	7.9	9.0	10.2	10.2	10.2	10.2	11.3
77.5°	6.8	5.6	7.9	7.9	7.9	5.6	6.8	5.6	6.8	5.6	6.8
80°	3.4	4.5	3.4	5.6	3.4	4.5	3.4	5.6	3.4	4.5	4.5
82.5°	1.1	2.3	2.3	2.3	2.3	2.3	1.1	1.1	2.3	2.3	1.1
85°	0.0	2.3	1.1	1.1	1.1	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	1.1	0.0	0.0	1.1	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: P245002

CATALOG NUMBER: LD8B40D010 ER8B40940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4
2.5°	2330.0	2326.7	2327.8	2321.0	2321.0	2318.8	2319.9	2314.3	2312.1	2309.8	2313.2
5°	2363.8	2358.2	2353.7	2343.6	2337.9	2331.2	2327.8	2318.8	2310.9	2304.1	2303.0
7.5°	2390.9	2378.5	2370.6	2357.1	2347.0	2339.1	2327.8	2315.4	2305.3	2296.2	2289.5
10°	2402.1	2389.7	2377.4	2360.5	2349.2	2334.5	2323.3	2307.5	2294.0	2281.6	2273.7
12.5°	2403.2	2387.5	2376.2	2357.1	2342.4	2326.7	2314.3	2296.2	2280.5	2268.1	2255.7
15°	2393.1	2378.5	2364.9	2344.7	2330.0	2315.4	2300.8	2281.6	2267.0	2252.4	2243.4
17.5°	2370.6	2357.1	2341.3	2322.2	2308.7	2295.1	2279.4	2263.6	2246.7	2230.9	2219.7
20°	2341.3	2326.7	2313.2	2294.0	2282.8	2268.1	2253.5	2236.6	2223.1	2207.3	2194.9
22.5°	2297.4	2283.9	2271.5	2260.2	2242.2	2230.9	2220.8	2201.7	2188.2	2173.5	2160.0
25°	2234.3	2220.8	2210.7	2197.1	2189.3	2176.9	2166.7	2149.9	2137.5	2124.0	2112.7
27.5°	2130.7	2122.8	2117.2	2109.3	2102.6	2096.9	2091.3	2077.8	2068.8	2056.4	2045.1
30°	1975.3	1974.2	1970.8	1967.4	1971.9	1971.9	1971.9	1969.7	1961.8	1952.8	1944.9
32.5°	1776.0	1778.2	1782.7	1786.1	1795.1	1805.3	1814.3	1818.8	1818.8	1813.1	1809.8
35°	1538.4	1541.7	1548.5	1557.5	1568.8	1581.1	1601.4	1605.9	1609.3	1609.3	1604.8
37.5°	1291.7	1290.6	1297.4	1305.2	1312.0	1321.0	1335.7	1339.0	1344.6	1342.4	1337.9
40°	1051.8	1046.2	1043.9	1046.2	1054.1	1050.7	1054.1	1051.8	1051.8	1043.9	1043.9
42.5°	830.0	823.3	818.7	815.4	815.4	807.4	801.8	796.2	792.8	787.2	786.1
45°	639.7	631.8	626.2	623.9	620.5	610.4	603.6	596.9	589.0	586.8	587.9
47.5°	496.6	488.8	486.5	480.9	475.2	469.6	465.1	457.2	456.1	451.6	456.1
50°	382.9	380.7	377.3	375.0	371.6	367.1	362.6	358.1	355.9	355.9	357.0
52.5°	297.3	298.4	295.0	291.7	289.4	289.4	283.8	282.7	282.7	278.2	282.7
55°	227.5	226.3	227.5	225.2	225.2	221.9	221.9	218.5	218.5	215.1	217.4
57.5°	166.7	168.9	166.7	167.8	170.1	166.7	165.5	162.1	164.4	162.1	163.3
60°	129.5	129.5	129.5	128.4	128.4	127.2	127.2	126.1	126.1	123.9	126.1
62.5°	95.7	96.8	96.8	96.8	98.0	96.8	95.7	96.8	95.7	95.7	96.8
65°	63.1	64.2	64.2	63.1	65.3	63.1	64.2	65.3	66.4	65.3	66.4
67.5°	42.8	42.8	43.9	45.1	43.9	45.1	46.2	45.1	46.2	48.4	46.2
70°	31.5	32.7	32.7	31.5	30.4	31.5	30.4	33.8	33.8	33.8	36.0
72.5°	20.3	20.3	19.1	19.1	19.1	19.1	19.1	22.5	20.3	19.1	21.4
75°	11.3	12.4	12.4	9.0	10.2	12.4	9.0	10.2	13.5	11.3	13.5
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	9.0	7.9	7.9	7.9	9.0
80°	5.6	4.5	4.5	3.4	4.5	4.5	4.5	6.8	5.6	5.6	6.8
82.5°	2.3	2.3	1.1	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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: P245002

CATALOG NUMBER: LD8B40D010 ER8B40940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4
2.5°	2304.1	2304.1	2303.0	2300.8	2296.2	2296.2	2295.1	2291.8	2289.5	2288.4	2288.4
5°	2292.9	2288.4	2283.9	2271.5	2271.5	2269.2	2262.5	2258.0	2255.7	2250.1	2247.9
7.5°	2282.8	2269.2	2261.3	2253.5	2243.4	2238.8	2230.9	2227.6	2219.7	2214.1	2210.7
10°	2258.0	2249.0	2238.8	2226.4	2218.6	2209.6	2200.5	2193.8	2183.7	2178.0	2173.5
12.5°	2241.1	2227.6	2218.6	2205.0	2191.5	2183.7	2171.3	2163.4	2153.2	2142.0	2135.2
15°	2225.3	2210.7	2198.3	2183.7	2169.0	2160.0	2145.4	2136.4	2121.7	2110.5	2102.6
17.5°	2201.7	2189.3	2175.8	2157.7	2144.3	2133.0	2117.2	2106.0	2092.4	2077.8	2069.9
20°	2176.9	2162.2	2148.8	2130.7	2117.2	2103.7	2087.9	2075.6	2059.8	2046.3	2037.3
22.5°	2144.3	2127.3	2116.1	2098.0	2082.3	2067.7	2053.0	2038.4	2023.7	2012.5	2002.3
25°	2096.9	2078.9	2066.5	2051.9	2037.3	2026.0	2008.0	1999.0	1984.3	1974.2	1964.0
27.5°	2029.3	2015.9	2004.6	1989.9	1977.6	1968.6	1955.0	1946.0	1933.6	1924.6	1916.7
30°	1930.3	1919.0	1908.9	1894.2	1885.2	1877.3	1864.9	1857.0	1848.1	1837.9	1835.7
32.5°	1797.4	1788.3	1778.2	1768.1	1761.3	1756.8	1746.7	1742.2	1733.2	1727.5	1721.9
35°	1596.9	1589.0	1583.4	1578.9	1576.6	1577.8	1575.5	1580.0	1582.3	1581.1	1582.3
37.5°	1334.5	1330.0	1332.3	1335.7	1346.9	1361.6	1375.1	1395.3	1408.8	1422.4	1434.8
40°	1041.7	1045.1	1054.1	1074.4	1103.6	1136.3	1166.7	1205.0	1243.3	1270.3	1295.1
42.5°	786.1	796.2	818.7	848.0	891.9	940.3	987.7	1043.9	1090.2	1135.2	1166.7
45°	591.2	604.7	634.0	674.6	723.0	779.3	839.0	902.1	957.3	1003.4	1038.3
47.5°	460.6	473.0	502.3	545.1	604.7	663.3	725.3	790.6	848.0	893.1	923.5
50°	363.7	379.5	405.4	450.5	510.2	572.1	636.3	700.5	754.6	792.8	819.9
52.5°	286.1	300.7	325.5	372.8	433.6	495.5	555.2	618.3	665.6	702.7	720.8
55°	221.9	235.4	261.3	300.7	358.1	418.9	478.6	532.7	576.6	603.6	620.5
57.5°	168.9	179.1	197.1	236.5	288.3	344.6	395.3	449.4	483.2	502.3	513.5
60°	128.4	136.3	155.4	185.8	233.1	281.6	324.3	364.9	391.9	407.7	418.9
62.5°	96.8	105.9	119.4	145.3	181.3	220.7	256.8	287.2	309.7	319.8	327.7
65°	66.4	73.2	83.3	103.6	134.0	162.1	190.3	212.9	227.5	238.8	243.3
67.5°	49.6	54.0	59.7	75.5	96.8	119.4	138.5	154.3	170.1	174.6	182.5
70°	37.2	40.6	46.2	57.4	69.8	85.6	101.4	110.4	121.6	129.5	131.8
72.5°	23.6	24.8	30.4	37.2	47.3	57.4	67.6	75.5	82.2	86.7	89.0
75°	13.5	20.3	20.3	27.0	33.8	38.3	45.1	50.7	54.0	57.4	57.4
77.5°	9.0	12.4	13.5	16.9	20.3	25.9	31.5	34.9	38.3	39.4	39.4
80°	7.9	9.0	9.0	12.4	14.6	19.1	22.5	23.6	25.9	27.0	29.3
82.5°	3.4	4.5	5.6	9.0	10.2	10.2	13.5	14.6	16.9	18.0	18.0
85°	1.1	2.3	2.3	3.4	5.6	6.8	7.9	9.0	10.2	10.2	11.3
87.5°	1.1	1.1	0.0	1.1	2.3	2.3	4.5	4.5	4.5	6.8	6.8
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: P245002

CATALOG NUMBER: LD8B40D010 ER8B40940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4
2.5°	2286.1	2287.3	2282.8	2281.6	2279.4	2280.5	2282.8
5°	2244.5	2245.6	2241.1	2236.6	2236.6	2235.4	2236.6
7.5°	2205.0	2206.2	2199.4	2197.1	2192.6	2193.8	2193.8
10°	2165.6	2165.6	2155.5	2154.4	2151.0	2149.9	2149.9
12.5°	2127.3	2124.0	2116.1	2111.6	2113.8	2107.1	2107.1
15°	2093.5	2087.9	2077.8	2074.4	2068.8	2066.5	2066.5
17.5°	2058.6	2054.1	2045.1	2038.4	2031.6	2030.5	2031.6
20°	2024.8	2020.3	2009.1	2004.6	1999.0	1999.0	1996.7
22.5°	1991.1	1986.6	1976.5	1973.1	1965.2	1965.2	1966.3
25°	1956.1	1952.8	1941.5	1939.3	1938.2	1933.6	1935.9
27.5°	1908.9	1906.6	1897.6	1894.2	1889.7	1888.6	1890.8
30°	1822.1	1818.8	1812.0	1808.6	1800.8	1801.9	1804.1
32.5°	1714.0	1709.5	1700.5	1697.1	1690.4	1688.1	1689.2
35°	1578.9	1575.5	1567.7	1567.7	1560.9	1558.6	1560.9
37.5°	1441.5	1444.9	1441.5	1444.9	1441.5	1440.4	1441.5
40°	1312.0	1324.4	1326.6	1339.0	1334.5	1341.3	1340.1
42.5°	1188.1	1208.4	1216.3	1226.4	1224.2	1228.7	1232.0
45°	1063.1	1080.0	1087.9	1094.7	1095.8	1098.0	1099.2
47.5°	944.8	958.4	959.5	967.4	966.3	966.3	969.6
50°	834.5	843.5	845.7	851.4	846.9	844.6	845.7
52.5°	732.0	741.0	738.7	741.0	735.4	733.1	734.3
55°	627.3	631.8	631.8	631.8	625.0	625.0	625.0
57.5°	520.3	521.4	519.2	520.3	519.2	512.4	511.3
60°	422.3	422.3	421.2	422.3	418.9	415.6	415.6
62.5°	329.9	332.2	336.7	332.2	329.9	332.2	328.8
65°	246.7	251.1	250.0	252.3	251.1	251.1	248.9
67.5°	185.8	186.9	188.1	189.2	189.2	189.2	189.2
70°	136.3	139.7	138.5	138.5	138.5	138.5	145.3
72.5°	91.2	95.7	94.6	96.8	96.8	99.1	96.8
75°	61.9	66.4	64.2	67.6	66.4	64.2	69.8
77.5°	41.7	43.9	45.1	46.2	45.1	43.9	45.1
80°	29.3	31.5	30.4	31.5	31.5	31.5	32.7
82.5°	18.0	21.4	20.3	21.4	20.3	21.4	21.4
85°	12.4	13.5	11.3	13.5	12.4	12.4	14.6
87.5°	7.9	6.8	6.8	7.9	6.8	7.9	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)