

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: P245872

Luminaire Tested: **LD8B40D010 ER8B40950 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245872
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 ER8B40950 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3755.0 lumens
Efficiency: N/A
Efficacy: 91.8 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

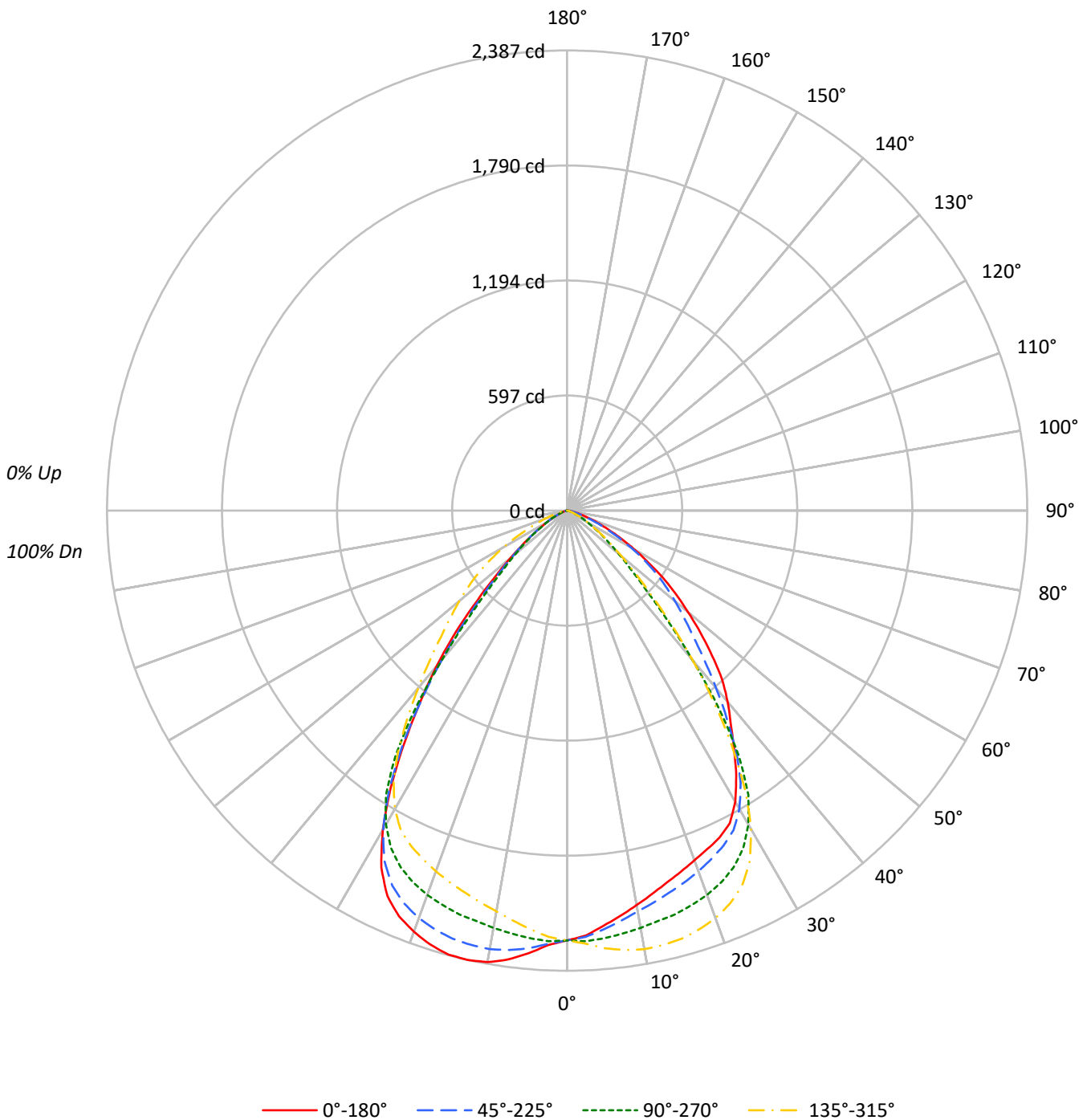
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	68740	68740	68740	68740
5°	66917	68904	71362	68904
10°	65063	68811	74469	68811
15°	63765	69221	76101	69221
20°	63330	69618	76296	69618
25°	63663	69477	75071	69477
30°	62087	66933	68137	66933
35°	56794	58390	55397	58390
40°	52141	40616	42416	40616
45°	46330	24779	28669	24779
50°	39213	16551	18383	16551
55°	32477	11295	11935	11295
60°	24774	7518	7586	7518
65°	17548	4684	4290	4684
70°	12658	3138	2849	3138
75°	8042	1561	1299	1561
80°	5612	1154	959	1154
85°	5024	0	389	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	5.7
10°-20°	614.4	16.4
20°-30°	930.4	24.8
30°-40°	932.5	24.8
40°-50°	585.5	15.6
50°-60°	312.0	8.3
60°-70°	128.3	3.4
70°-80°	33.9	0.9
80°-90°	5.7	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°	1757.0	46.8
0°-40°	2689.5	71.6
0°-60°	3587.0	95.5
0°-90°	3755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3755.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2229	2229	2229	2229	2229	
5°	2162	2226	2305	2226	2162	204
15°	1997	2168	2384	2168	1997	565
25°	1871	2042	2206	2042	1871	858
35°	1509	1551	1472	1551	1509	945
45°	1062	568	657	568	1062	817
55°	604	210	222	210	604	539
65°	240	64	59	64	240	250
75°	68	13	11	13	68	76
85°	14	0	1	0	14	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°	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2
2.5°	2206.4	2204.2	2203.1	2205.3	2206.4	2210.7	2209.6	2211.8	2211.8	2212.9	2215.1
5°	2161.8	2160.6	2161.8	2161.8	2166.1	2170.4	2169.4	2172.6	2174.8	2180.3	2182.4
7.5°	2120.4	2120.4	2119.3	2123.6	2125.8	2132.4	2131.2	2136.7	2140.0	2145.4	2153.0
10°	2077.9	2077.9	2079.0	2082.3	2083.4	2093.2	2093.2	2100.8	2105.1	2110.6	2120.4
12.5°	2036.6	2036.6	2043.1	2040.9	2045.3	2052.9	2056.2	2063.8	2070.3	2081.2	2091.0
15°	1997.4	1997.4	1999.6	2005.0	2008.3	2018.1	2023.5	2032.2	2039.8	2050.7	2064.9
17.5°	1963.6	1962.6	1963.6	1970.2	1976.7	1985.4	1989.8	2000.6	2008.3	2022.4	2035.5
20°	1929.9	1932.1	1932.1	1937.5	1941.9	1952.7	1957.1	1969.1	1977.8	1990.8	2006.1
22.5°	1900.5	1899.4	1899.4	1907.0	1910.3	1920.1	1924.4	1935.3	1945.1	1956.0	1970.2
25°	1871.1	1868.9	1873.3	1874.4	1876.5	1887.4	1890.7	1898.3	1908.1	1917.9	1932.1
27.5°	1827.6	1825.4	1826.5	1830.8	1834.1	1842.8	1845.0	1852.6	1860.2	1868.9	1880.9
30°	1743.7	1741.6	1740.5	1748.1	1751.4	1757.9	1761.2	1774.2	1776.4	1786.2	1794.9
32.5°	1632.7	1631.6	1633.8	1640.3	1643.6	1652.3	1656.7	1664.3	1669.7	1675.2	1683.9
35°	1508.7	1506.5	1508.7	1515.2	1515.2	1522.8	1526.1	1529.3	1528.2	1529.3	1527.2
37.5°	1393.3	1392.2	1393.3	1396.5	1393.3	1396.5	1393.3	1386.7	1374.8	1361.7	1348.6
40°	1295.3	1296.4	1289.9	1294.2	1282.2	1280.1	1268.1	1251.8	1227.8	1201.7	1164.7
42.5°	1190.8	1187.6	1183.2	1185.4	1175.6	1167.9	1148.3	1127.7	1097.2	1053.7	1009.0
45°	1062.4	1061.3	1059.1	1058.0	1051.5	1043.9	1027.5	1003.6	969.9	925.2	871.9
47.5°	937.2	933.9	933.9	935.0	927.4	926.3	913.2	892.6	863.2	819.6	764.1
50°	817.4	816.4	818.6	822.9	817.4	815.3	806.6	792.4	766.3	729.3	677.0
52.5°	709.7	708.6	710.8	716.2	714.0	716.2	707.5	696.6	679.2	643.3	597.6
55°	604.1	604.1	604.1	610.6	610.6	610.6	606.3	599.8	583.4	557.3	514.9
57.5°	494.2	495.3	501.8	502.9	501.8	504.0	502.9	496.3	485.5	467.0	434.3
60°	401.7	401.7	404.9	408.2	407.1	408.2	408.2	404.9	394.0	378.8	352.7
62.5°	317.8	321.1	318.9	321.1	325.4	321.1	318.9	316.8	309.1	299.3	277.6
65°	240.5	242.7	242.7	243.8	241.6	242.7	238.4	235.1	230.8	219.9	205.7
67.5°	182.9	182.9	182.9	182.9	181.8	180.7	179.6	176.3	168.7	164.4	149.1
70°	140.4	133.9	133.9	133.9	133.9	135.0	131.7	127.4	125.2	117.6	106.7
72.5°	93.6	95.8	93.6	93.6	91.4	92.5	88.2	86.0	83.8	79.5	72.9
75°	67.5	62.1	64.2	65.3	62.1	64.2	59.9	55.5	55.5	52.2	49.0
77.5°	43.5	42.5	43.5	44.6	43.5	42.5	40.3	38.1	38.1	37.0	33.7
80°	31.6	30.5	30.5	30.5	29.4	30.5	28.3	28.3	26.1	25.0	22.8
82.5°	20.7	20.7	19.6	20.7	19.6	20.7	17.4	17.4	17.4	16.3	14.2
85°	14.2	12.0	12.0	13.1	10.9	13.1	12.0	10.9	9.8	9.8	8.7
87.5°	6.5	7.6	6.5	7.6	6.5	6.5	7.6	6.5	6.5	4.3	4.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2
2.5°	2218.3	2219.4	2219.4	2223.8	2226.0	2227.0	2227.0	2235.8	2232.5	2234.7	2236.8
5°	2186.8	2193.3	2195.5	2195.5	2207.5	2211.8	2216.1	2226.0	2227.0	2233.6	2241.2
7.5°	2156.3	2163.9	2168.3	2178.1	2185.7	2193.3	2206.4	2212.9	2219.4	2228.1	2237.9
10°	2126.9	2135.6	2144.3	2151.9	2163.9	2173.7	2182.4	2197.6	2205.3	2217.3	2230.3
12.5°	2098.6	2110.6	2118.2	2131.2	2144.3	2153.0	2166.1	2180.3	2192.2	2204.2	2219.4
15°	2073.6	2087.7	2096.4	2110.6	2124.7	2136.7	2150.9	2168.3	2177.0	2191.1	2205.3
17.5°	2046.3	2061.6	2072.5	2085.5	2103.0	2116.0	2128.0	2145.4	2156.3	2171.5	2187.9
20°	2018.1	2033.3	2046.3	2059.4	2076.8	2089.9	2104.0	2121.5	2133.4	2148.7	2161.8
22.5°	1984.3	1998.5	2012.6	2027.8	2045.3	2056.2	2072.5	2087.7	2100.8	2114.9	2128.0
25°	1940.8	1958.2	1969.1	1983.2	1997.4	2009.3	2026.8	2042.0	2052.9	2066.0	2077.9
27.5°	1889.6	1902.7	1911.4	1923.4	1937.5	1948.4	1961.4	1976.7	1987.6	1999.6	2008.3
30°	1802.5	1814.5	1822.1	1830.8	1845.0	1854.8	1865.7	1879.8	1887.4	1896.2	1903.8
32.5°	1688.2	1698.0	1702.4	1708.9	1718.7	1728.5	1737.2	1749.2	1752.5	1757.9	1757.9
35°	1522.8	1525.0	1523.9	1526.1	1530.4	1535.9	1543.5	1551.1	1555.4	1555.4	1552.2
37.5°	1329.0	1316.0	1301.8	1291.0	1287.7	1285.5	1289.9	1293.1	1297.5	1299.6	1294.2
40°	1127.7	1098.3	1066.7	1038.4	1018.8	1010.1	1006.9	1009.0	1009.0	1016.6	1016.6
42.5°	954.6	908.9	862.1	819.6	791.3	769.6	759.8	759.8	760.8	766.3	769.6
45°	810.9	753.2	698.8	652.0	612.8	584.5	571.5	568.2	567.1	569.3	576.9
47.5°	701.0	641.1	584.5	526.8	485.5	457.2	445.2	440.8	436.5	440.8	441.9
50°	615.0	553.0	493.1	435.4	391.8	366.8	351.6	345.0	344.0	344.0	346.1
52.5°	536.6	478.9	419.1	360.3	314.6	290.6	276.5	273.2	268.9	273.2	273.2
55°	462.6	404.9	346.1	290.6	252.5	227.5	214.4	210.1	207.9	211.2	211.2
57.5°	382.1	333.1	278.7	228.6	190.5	173.1	163.3	157.8	156.7	158.9	156.7
60°	313.5	272.1	225.3	179.6	150.2	131.7	124.1	121.9	119.7	121.9	121.9
62.5°	248.2	213.4	175.2	140.4	115.4	102.3	93.6	93.6	92.5	92.5	93.6
65°	184.0	156.7	129.5	100.1	80.6	70.7	64.2	64.2	63.1	64.2	63.1
67.5°	133.9	115.4	93.6	72.9	57.7	52.2	47.9	44.6	46.8	44.6	43.5
70°	98.0	82.7	67.5	55.5	44.6	39.2	35.9	34.8	32.7	32.7	32.7
72.5°	65.3	55.5	45.7	35.9	29.4	23.9	22.8	20.7	18.5	19.6	21.8
75°	43.5	37.0	32.7	26.1	19.6	19.6	13.1	13.1	10.9	13.1	9.8
77.5°	30.5	25.0	19.6	16.3	13.1	12.0	8.7	8.7	7.6	7.6	7.6
80°	21.8	18.5	14.2	12.0	8.7	8.7	7.6	6.5	5.4	5.4	6.5
82.5°	13.1	9.8	9.8	8.7	5.4	4.3	3.3	4.3	2.2	2.2	2.2
85°	7.6	6.5	5.4	3.3	2.2	2.2	1.1	0.0	1.1	1.1	0.0
87.5°	4.3	2.2	2.2	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.2
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°	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2
2.5°	2242.3	2241.2	2243.4	2243.4	2249.9	2248.8	2252.1	2252.1	2249.9	2251.0	2255.3
5°	2249.9	2253.2	2259.7	2265.2	2274.9	2279.3	2284.7	2290.2	2291.3	2294.5	2297.8
7.5°	2249.9	2260.8	2268.4	2278.2	2291.3	2298.9	2310.9	2320.7	2325.0	2330.4	2337.0
10°	2245.5	2256.4	2270.6	2281.5	2297.8	2309.8	2321.7	2337.0	2343.5	2352.2	2360.9
12.5°	2236.8	2248.8	2264.0	2278.2	2296.7	2307.6	2322.8	2337.0	2346.8	2358.8	2368.6
15°	2223.8	2237.9	2252.1	2266.2	2285.8	2298.9	2313.1	2329.4	2339.2	2352.2	2360.9
17.5°	2203.1	2218.3	2231.4	2244.5	2263.0	2278.2	2291.3	2306.5	2316.3	2327.2	2339.2
20°	2178.1	2192.2	2206.4	2217.3	2235.8	2248.8	2263.0	2277.1	2284.7	2286.9	2305.4
22.5°	2146.5	2156.3	2167.2	2184.6	2195.5	2207.5	2220.5	2233.6	2241.2	2253.2	2259.7
25°	2094.2	2104.0	2116.0	2123.6	2136.7	2146.5	2159.6	2173.7	2178.1	2186.8	2193.3
27.5°	2021.3	2026.8	2032.2	2038.7	2046.3	2051.8	2059.4	2066.0	2070.3	2074.7	2079.0
30°	1905.9	1905.9	1905.9	1901.6	1904.8	1908.1	1909.2	1908.1	1908.1	1907.0	1907.0
32.5°	1753.5	1744.9	1735.0	1726.4	1723.1	1718.7	1716.5	1713.3	1707.9	1704.6	1705.7
35°	1547.8	1528.2	1516.3	1505.4	1496.7	1490.2	1486.9	1483.6	1482.5	1478.2	1473.8
37.5°	1291.0	1276.8	1268.1	1261.6	1254.0	1247.4	1248.5	1249.6	1252.8	1250.7	1251.8
40°	1018.8	1015.6	1018.8	1011.2	1009.0	1011.2	1016.6	1024.3	1028.6	1033.0	1040.6
42.5°	775.0	780.4	788.1	788.1	791.3	795.7	802.2	814.2	820.7	828.3	837.1
45°	583.4	590.0	599.8	603.0	605.2	610.6	618.3	628.1	632.4	638.9	646.6
47.5°	449.6	453.9	459.3	464.8	470.2	472.4	480.0	480.0	485.5	489.8	492.0
50°	350.5	354.8	359.2	362.5	364.7	367.9	370.1	373.3	374.4	376.6	377.7
52.5°	274.3	279.8	279.8	281.9	285.2	288.4	287.4	288.4	289.5	289.5	292.8
55°	214.4	214.4	217.7	217.7	219.9	218.8	219.9	219.9	219.9	219.9	221.0
57.5°	160.0	161.1	164.4	162.2	161.1	163.3	161.1	163.3	162.2	164.4	161.1
60°	123.0	123.0	124.1	124.1	125.2	125.2	125.2	124.1	124.1	123.0	123.0
62.5°	92.5	93.6	94.7	93.6	93.6	93.6	92.5	92.5	91.4	90.3	90.3
65°	62.1	61.0	63.1	61.0	62.1	62.1	61.0	62.1	58.8	59.9	58.8
67.5°	44.6	43.5	42.5	43.5	42.5	41.4	41.4	42.5	43.5	40.3	40.3
70°	29.4	30.5	29.4	30.5	31.6	31.6	30.5	29.4	30.5	28.3	29.4
72.5°	18.5	18.5	18.5	18.5	18.5	19.6	19.6	19.6	17.4	17.4	16.3
75°	8.7	12.0	9.8	8.7	12.0	12.0	10.9	10.9	9.8	9.8	9.8
77.5°	8.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.4	6.5	5.4
80°	4.3	4.3	4.3	3.3	4.3	4.3	5.4	4.3	4.3	3.3	5.4
82.5°	2.2	2.2	2.2	0.0	1.1	2.2	2.2	1.1	2.2	2.2	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: P245872

CATALOG NUMBER: LD8B40D010 ER8B40950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2
2.5°	2254.3	2253.2	2254.3	2255.3	2254.3	2253.2	2254.3	2255.3	2251.0	2249.9	2252.1
5°	2302.2	2302.2	2304.3	2305.4	2304.3	2302.2	2302.2	2297.8	2294.5	2291.3	2290.2
7.5°	2343.5	2345.7	2347.9	2348.9	2347.9	2345.7	2343.5	2337.0	2330.4	2325.0	2320.7
10°	2368.6	2371.8	2376.2	2378.3	2376.2	2371.8	2368.6	2360.9	2352.2	2343.5	2337.0
12.5°	2379.4	2382.7	2388.1	2387.1	2388.1	2382.7	2379.4	2368.6	2358.8	2346.8	2337.0
15°	2371.8	2376.2	2381.6	2383.8	2381.6	2376.2	2371.8	2360.9	2352.2	2339.2	2329.4
17.5°	2347.9	2354.4	2357.7	2360.9	2357.7	2354.4	2347.9	2339.2	2327.2	2316.3	2306.5
20°	2315.2	2319.6	2323.9	2325.0	2323.9	2319.6	2315.2	2305.4	2286.9	2284.7	2277.1
22.5°	2268.4	2271.7	2281.5	2278.2	2281.5	2271.7	2268.4	2259.7	2253.2	2241.2	2233.6
25°	2200.9	2204.2	2205.3	2206.4	2205.3	2204.2	2200.9	2193.3	2186.8	2178.1	2173.7
27.5°	2084.5	2084.5	2086.6	2087.7	2086.6	2084.5	2084.5	2079.0	2074.7	2070.3	2066.0
30°	1908.1	1908.1	1908.1	1913.6	1908.1	1908.1	1908.1	1907.0	1907.0	1908.1	1908.1
32.5°	1704.6	1702.4	1700.2	1702.4	1700.2	1702.4	1704.6	1705.7	1704.6	1707.9	1713.3
35°	1473.8	1472.7	1476.0	1471.6	1476.0	1472.7	1473.8	1473.8	1478.2	1482.5	1483.6
37.5°	1252.8	1250.7	1255.0	1250.7	1255.0	1250.7	1252.8	1251.8	1250.7	1252.8	1249.6
40°	1042.8	1044.9	1044.9	1053.7	1044.9	1044.9	1042.8	1040.6	1033.0	1028.6	1024.3
42.5°	841.4	847.9	845.7	852.3	845.7	847.9	841.4	837.1	828.3	820.7	814.2
45°	650.9	655.3	655.3	657.4	655.3	655.3	650.9	646.6	638.9	632.4	628.1
47.5°	499.6	499.6	499.6	500.7	499.6	499.6	499.6	492.0	489.8	485.5	480.0
50°	379.9	381.0	382.1	383.2	382.1	381.0	379.9	377.7	376.6	374.4	373.3
52.5°	291.7	292.8	290.6	292.8	290.6	292.8	291.7	292.8	289.5	289.5	288.4
55°	221.0	219.9	221.0	222.0	221.0	219.9	221.0	221.0	219.9	219.9	219.9
57.5°	162.2	160.0	160.0	160.0	160.0	160.0	162.2	161.1	164.4	162.2	163.3
60°	120.8	121.9	121.9	123.0	121.9	121.9	120.8	123.0	123.0	124.1	124.1
62.5°	89.2	92.5	90.3	92.5	90.3	92.5	89.2	90.3	90.3	91.4	92.5
65°	57.7	57.7	57.7	58.8	57.7	57.7	57.7	58.8	59.9	58.8	62.1
67.5°	39.2	40.3	42.5	41.4	42.5	40.3	39.2	40.3	40.3	43.5	42.5
70°	31.6	28.3	28.3	31.6	28.3	28.3	31.6	29.4	28.3	30.5	29.4
72.5°	18.5	16.3	18.5	18.5	18.5	16.3	18.5	16.3	17.4	17.4	19.6
75°	9.8	8.7	7.6	10.9	7.6	8.7	9.8	9.8	9.8	9.8	10.9
77.5°	6.5	5.4	7.6	7.6	7.6	5.4	6.5	5.4	6.5	5.4	6.5
80°	3.3	4.3	3.3	5.4	3.3	4.3	3.3	5.4	3.3	4.3	4.3
82.5°	1.1	2.2	2.2	2.2	2.2	2.2	1.1	1.1	2.2	2.2	1.1
85°	0.0	2.2	1.1	1.1	1.1	2.2	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: P245872

CATALOG NUMBER: LD8B40D010 ER8B40950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2
2.5°	2252.1	2248.8	2249.9	2243.4	2243.4	2241.2	2242.3	2236.8	2234.7	2232.5	2235.8
5°	2284.7	2279.3	2274.9	2265.2	2259.7	2253.2	2249.9	2241.2	2233.6	2227.0	2226.0
7.5°	2310.9	2298.9	2291.3	2278.2	2268.4	2260.8	2249.9	2237.9	2228.1	2219.4	2212.9
10°	2321.7	2309.8	2297.8	2281.5	2270.6	2256.4	2245.5	2230.3	2217.3	2205.3	2197.6
12.5°	2322.8	2307.6	2296.7	2278.2	2264.0	2248.8	2236.8	2219.4	2204.2	2192.2	2180.3
15°	2313.1	2298.9	2285.8	2266.2	2252.1	2237.9	2223.8	2205.3	2191.1	2177.0	2168.3
17.5°	2291.3	2278.2	2263.0	2244.5	2231.4	2218.3	2203.1	2187.9	2171.5	2156.3	2145.4
20°	2263.0	2248.8	2235.8	2217.3	2206.4	2192.2	2178.1	2161.8	2148.7	2133.4	2121.5
22.5°	2220.5	2207.5	2195.5	2184.6	2167.2	2156.3	2146.5	2128.0	2114.9	2100.8	2087.7
25°	2159.6	2146.5	2136.7	2123.6	2116.0	2104.0	2094.2	2077.9	2066.0	2052.9	2042.0
27.5°	2059.4	2051.8	2046.3	2038.7	2032.2	2026.8	2021.3	2008.3	1999.6	1987.6	1976.7
30°	1909.2	1908.1	1904.8	1901.6	1905.9	1905.9	1905.9	1903.8	1896.2	1887.4	1879.8
32.5°	1716.5	1718.7	1723.1	1726.4	1735.0	1744.9	1753.5	1757.9	1757.9	1752.5	1749.2
35°	1486.9	1490.2	1496.7	1505.4	1516.3	1528.2	1547.8	1552.2	1555.4	1555.4	1551.1
37.5°	1248.5	1247.4	1254.0	1261.6	1268.1	1276.8	1291.0	1294.2	1299.6	1297.5	1293.1
40°	1016.6	1011.2	1009.0	1011.2	1018.8	1015.6	1018.8	1016.6	1016.6	1009.0	1009.0
42.5°	802.2	795.7	791.3	788.1	788.1	780.4	775.0	769.6	766.3	760.8	759.8
45°	618.3	610.6	605.2	603.0	599.8	590.0	583.4	576.9	569.3	567.1	568.2
47.5°	480.0	472.4	470.2	464.8	459.3	453.9	449.6	441.9	440.8	436.5	440.8
50°	370.1	367.9	364.7	362.5	359.2	354.8	350.5	346.1	344.0	344.0	345.0
52.5°	287.4	288.4	285.2	281.9	279.8	279.8	274.3	273.2	273.2	268.9	273.2
55°	219.9	218.8	219.9	217.7	217.7	214.4	214.4	211.2	211.2	207.9	210.1
57.5°	161.1	163.3	161.1	162.2	164.4	161.1	160.0	156.7	158.9	156.7	157.8
60°	125.2	125.2	125.2	124.1	124.1	123.0	123.0	121.9	121.9	119.7	121.9
62.5°	92.5	93.6	93.6	93.6	94.7	93.6	92.5	93.6	92.5	92.5	93.6
65°	61.0	62.1	62.1	61.0	63.1	61.0	62.1	63.1	64.2	63.1	64.2
67.5°	41.4	41.4	42.5	43.5	42.5	43.5	44.6	43.5	44.6	46.8	44.6
70°	30.5	31.6	31.6	30.5	29.4	30.5	29.4	32.7	32.7	32.7	34.8
72.5°	19.6	19.6	18.5	18.5	18.5	18.5	18.5	21.8	19.6	18.5	20.7
75°	10.9	12.0	12.0	8.7	9.8	12.0	8.7	9.8	13.1	10.9	13.1
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	8.7	7.6	7.6	7.6	8.7
80°	5.4	4.3	4.3	3.3	4.3	4.3	4.3	6.5	5.4	5.4	6.5
82.5°	2.2	2.2	1.1	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.3
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	2.2	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: P245872

CATALOG NUMBER: LD8B40D010 ER8B40950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2
2.5°	2227.0	2227.0	2226.0	2223.8	2219.4	2219.4	2218.3	2215.1	2212.9	2211.8	2211.8
5°	2216.1	2211.8	2207.5	2195.5	2195.5	2193.3	2186.8	2182.4	2180.3	2174.8	2172.6
7.5°	2206.4	2193.3	2185.7	2178.1	2168.3	2163.9	2156.3	2153.0	2145.4	2140.0	2136.7
10°	2182.4	2173.7	2163.9	2151.9	2144.3	2135.6	2126.9	2120.4	2110.6	2105.1	2100.8
12.5°	2166.1	2153.0	2144.3	2131.2	2118.2	2110.6	2098.6	2091.0	2081.2	2070.3	2063.8
15°	2150.9	2136.7	2124.7	2110.6	2096.4	2087.7	2073.6	2064.9	2050.7	2039.8	2032.2
17.5°	2128.0	2116.0	2103.0	2085.5	2072.5	2061.6	2046.3	2035.5	2022.4	2008.3	2000.6
20°	2104.0	2089.9	2076.8	2059.4	2046.3	2033.3	2018.1	2006.1	1990.8	1977.8	1969.1
22.5°	2072.5	2056.2	2045.3	2027.8	2012.6	1998.5	1984.3	1970.2	1956.0	1945.1	1935.3
25°	2026.8	2009.3	1997.4	1983.2	1969.1	1958.2	1940.8	1932.1	1917.9	1908.1	1898.3
27.5°	1961.4	1948.4	1937.5	1923.4	1911.4	1902.7	1889.6	1880.9	1868.9	1860.2	1852.6
30°	1865.7	1854.8	1845.0	1830.8	1822.1	1814.5	1802.5	1794.9	1786.2	1776.4	1774.2
32.5°	1737.2	1728.5	1718.7	1708.9	1702.4	1698.0	1688.2	1683.9	1675.2	1669.7	1664.3
35°	1543.5	1535.9	1530.4	1526.1	1523.9	1525.0	1522.8	1527.2	1529.3	1528.2	1529.3
37.5°	1289.9	1285.5	1287.7	1291.0	1301.8	1316.0	1329.0	1348.6	1361.7	1374.8	1386.7
40°	1006.9	1010.1	1018.8	1038.4	1066.7	1098.3	1127.7	1164.7	1201.7	1227.8	1251.8
42.5°	759.8	769.6	791.3	819.6	862.1	908.9	954.6	1009.0	1053.7	1097.2	1127.7
45°	571.5	584.5	612.8	652.0	698.8	753.2	810.9	871.9	925.2	969.9	1003.6
47.5°	445.2	457.2	485.5	526.8	584.5	641.1	701.0	764.1	819.6	863.2	892.6
50°	351.6	366.8	391.8	435.4	493.1	553.0	615.0	677.0	729.3	766.3	792.4
52.5°	276.5	290.6	314.6	360.3	419.1	478.9	536.6	597.6	643.3	679.2	696.6
55°	214.4	227.5	252.5	290.6	346.1	404.9	462.6	514.9	557.3	583.4	599.8
57.5°	163.3	173.1	190.5	228.6	278.7	333.1	382.1	434.3	467.0	485.5	496.3
60°	124.1	131.7	150.2	179.6	225.3	272.1	313.5	352.7	378.8	394.0	404.9
62.5°	93.6	102.3	115.4	140.4	175.2	213.4	248.2	277.6	299.3	309.1	316.8
65°	64.2	70.7	80.6	100.1	129.5	156.7	184.0	205.7	219.9	230.8	235.1
67.5°	47.9	52.2	57.7	72.9	93.6	115.4	133.9	149.1	164.4	168.7	176.3
70°	35.9	39.2	44.6	55.5	67.5	82.7	98.0	106.7	117.6	125.2	127.4
72.5°	22.8	23.9	29.4	35.9	45.7	55.5	65.3	72.9	79.5	83.8	86.0
75°	13.1	19.6	19.6	26.1	32.7	37.0	43.5	49.0	52.2	55.5	55.5
77.5°	8.7	12.0	13.1	16.3	19.6	25.0	30.5	33.7	37.0	38.1	38.1
80°	7.6	8.7	8.7	12.0	14.2	18.5	21.8	22.8	25.0	26.1	28.3
82.5°	3.3	4.3	5.4	8.7	9.8	9.8	13.1	14.2	16.3	17.4	17.4
85°	1.1	2.2	2.2	3.3	5.4	6.5	7.6	8.7	9.8	9.8	10.9
87.5°	1.1	1.1	0.0	1.1	2.2	2.2	4.3	4.3	4.3	6.5	6.5
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: P245872

CATALOG NUMBER: LD8B40D010 ER8B40950 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2	2229.2
2.5°	2209.6	2210.7	2206.4	2205.3	2203.1	2204.2	2206.4
5°	2169.4	2170.4	2166.1	2161.8	2161.8	2160.6	2161.8
7.5°	2131.2	2132.4	2125.8	2123.6	2119.3	2120.4	2120.4
10°	2093.2	2093.2	2083.4	2082.3	2079.0	2077.9	2077.9
12.5°	2056.2	2052.9	2045.3	2040.9	2043.1	2036.6	2036.6
15°	2023.5	2018.1	2008.3	2005.0	1999.6	1997.4	1997.4
17.5°	1989.8	1985.4	1976.7	1970.2	1963.6	1962.6	1963.6
20°	1957.1	1952.7	1941.9	1937.5	1932.1	1932.1	1929.9
22.5°	1924.4	1920.1	1910.3	1907.0	1899.4	1899.4	1900.5
25°	1890.7	1887.4	1876.5	1874.4	1873.3	1868.9	1871.1
27.5°	1845.0	1842.8	1834.1	1830.8	1826.5	1825.4	1827.6
30°	1761.2	1757.9	1751.4	1748.1	1740.5	1741.6	1743.7
32.5°	1656.7	1652.3	1643.6	1640.3	1633.8	1631.6	1632.7
35°	1526.1	1522.8	1515.2	1515.2	1508.7	1506.5	1508.7
37.5°	1393.3	1396.5	1393.3	1396.5	1393.3	1392.2	1393.3
40°	1268.1	1280.1	1282.2	1294.2	1289.9	1296.4	1295.3
42.5°	1148.3	1167.9	1175.6	1185.4	1183.2	1187.6	1190.8
45°	1027.5	1043.9	1051.5	1058.0	1059.1	1061.3	1062.4
47.5°	913.2	926.3	927.4	935.0	933.9	933.9	937.2
50°	806.6	815.3	817.4	822.9	818.6	816.4	817.4
52.5°	707.5	716.2	714.0	716.2	710.8	708.6	709.7
55°	606.3	610.6	610.6	610.6	604.1	604.1	604.1
57.5°	502.9	504.0	501.8	502.9	501.8	495.3	494.2
60°	408.2	408.2	407.1	408.2	404.9	401.7	401.7
62.5°	318.9	321.1	325.4	321.1	318.9	321.1	317.8
65°	238.4	242.7	241.6	243.8	242.7	242.7	240.5
67.5°	179.6	180.7	181.8	182.9	182.9	182.9	182.9
70°	131.7	135.0	133.9	133.9	133.9	133.9	140.4
72.5°	88.2	92.5	91.4	93.6	93.6	95.8	93.6
75°	59.9	64.2	62.1	65.3	64.2	62.1	67.5
77.5°	40.3	42.5	43.5	44.6	43.5	42.5	43.5
80°	28.3	30.5	29.4	30.5	30.5	30.5	31.6
82.5°	17.4	20.7	19.6	20.7	19.6	20.7	20.7
85°	12.0	13.1	10.9	13.1	12.0	12.0	14.2
87.5°	7.6	6.5	6.5	7.6	6.5	7.6	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)