

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: P244583

Luminaire Tested: **LD8B50D010 ER8B509727 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244583
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: LD8B50D010 ER8B509727 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3834.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

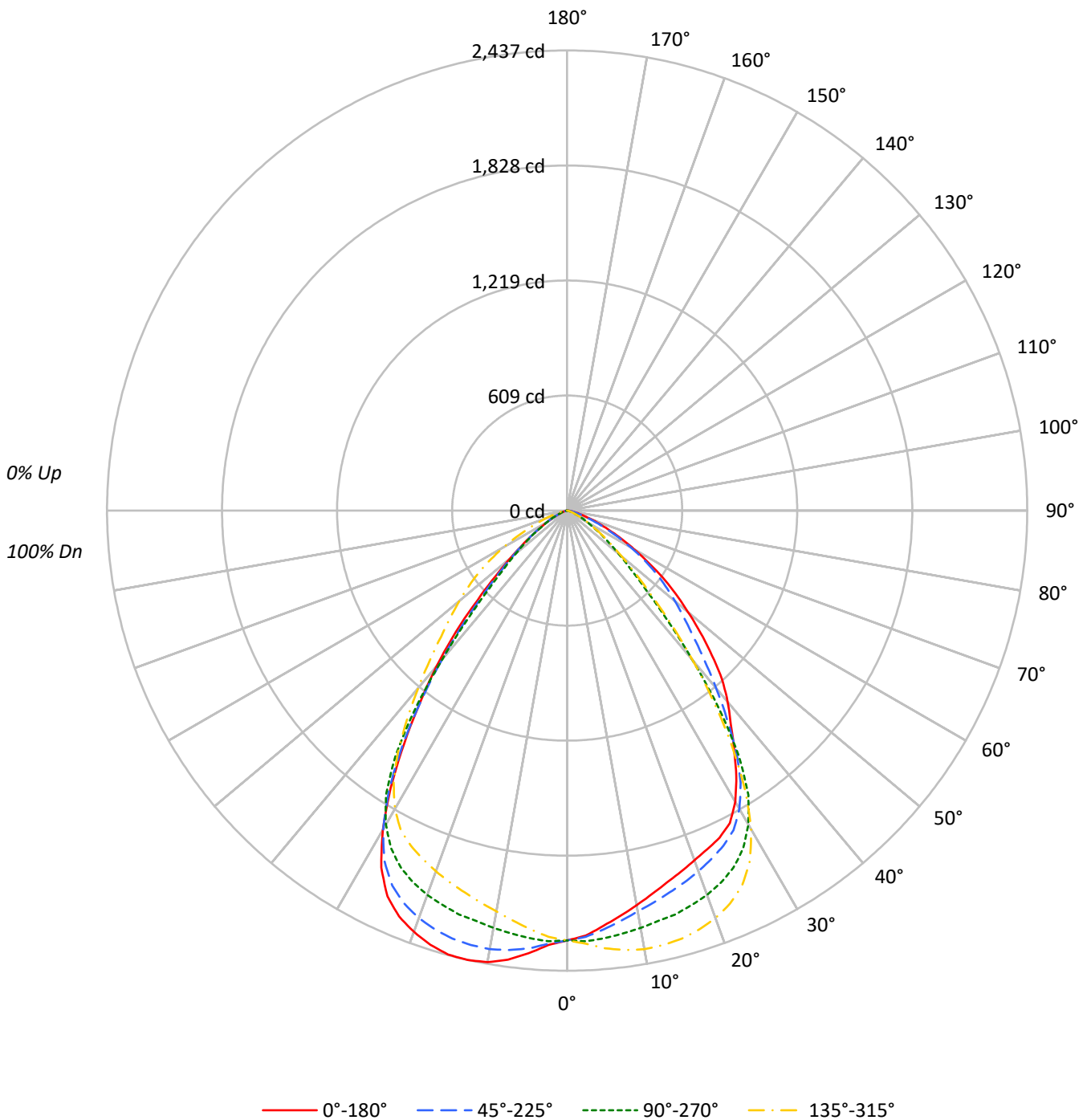
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	5.7
10°-20°	627.4	16.4
20°-30°	950.0	24.8
30°-40°	952.1	24.8
40°-50°	597.9	15.6
50°-60°	318.6	8.3
60°-70°	131.0	3.4
70°-80°	34.6	0.9
80°-90°	5.8	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°	1794.0	46.8
0°-40°	2746.1	71.6
0°-60°	3662.5	95.5
0°-90°	3834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3834.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2276	2276	2276	2276	2276	
5°	2207	2273	2354	2273	2207	208
15°	2039	2214	2434	2214	2039	577
25°	1910	2085	2253	2085	1910	876
35°	1540	1584	1503	1584	1540	965
45°	1085	580	671	580	1085	834
55°	617	214	227	214	617	550
65°	246	66	60	66	246	255
75°	69	13	11	13	69	78
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°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2252.8	2250.6	2249.5	2251.7	2252.8	2257.2	2256.1	2258.3	2258.3	2259.5	2261.7
5°	2207.2	2206.1	2207.2	2207.2	2211.7	2216.1	2215.0	2218.3	2220.5	2226.1	2228.3
7.5°	2165.0	2165.0	2163.9	2168.3	2170.5	2177.2	2176.1	2181.7	2185.0	2190.5	2198.3
10°	2121.6	2121.6	2122.7	2126.1	2127.2	2137.2	2137.2	2145.0	2149.4	2155.0	2165.0
12.5°	2079.4	2079.4	2086.1	2083.9	2088.3	2096.1	2099.4	2107.2	2113.9	2125.0	2135.0
15°	2039.4	2039.4	2041.6	2047.2	2050.5	2060.5	2066.1	2075.0	2082.8	2093.9	2108.3
17.5°	2004.9	2003.8	2004.9	2011.6	2018.3	2027.2	2031.6	2042.7	2050.5	2065.0	2078.3
20°	1970.5	1972.7	1972.7	1978.3	1982.7	1993.8	1998.3	2010.5	2019.4	2032.7	2048.3
22.5°	1940.5	1939.4	1939.4	1947.2	1950.5	1960.5	1964.9	1976.0	1986.1	1997.2	2011.6
25°	1910.5	1908.2	1912.7	1913.8	1916.0	1927.1	1930.5	1938.2	1948.3	1958.3	1972.7
27.5°	1866.0	1863.8	1864.9	1869.4	1872.7	1881.6	1883.8	1891.6	1899.4	1908.2	1920.5
30°	1780.4	1778.2	1777.1	1784.9	1788.2	1794.9	1798.2	1811.6	1813.8	1823.8	1832.7
32.5°	1667.1	1666.0	1668.2	1674.8	1678.2	1687.1	1691.5	1699.3	1704.9	1710.4	1719.3
35°	1540.4	1538.2	1540.4	1547.1	1547.1	1554.9	1558.2	1561.5	1560.4	1561.5	1559.3
37.5°	1422.6	1421.5	1422.6	1425.9	1422.6	1425.9	1422.6	1415.9	1403.7	1390.3	1377.0
40°	1322.6	1323.7	1317.0	1321.5	1309.2	1307.0	1294.8	1278.1	1253.7	1227.0	1189.2
42.5°	1215.9	1212.5	1208.1	1210.3	1200.3	1192.5	1172.5	1151.4	1120.3	1075.8	1030.2
45°	1084.7	1083.6	1081.4	1080.3	1073.6	1065.8	1049.1	1024.7	990.3	944.7	890.2
47.5°	956.9	953.6	953.6	954.7	946.9	945.8	932.4	911.3	881.3	836.9	780.2
50°	834.6	833.5	835.8	840.2	834.6	832.4	823.6	809.1	782.4	744.6	691.3
52.5°	724.6	723.5	725.8	731.3	729.0	731.3	722.4	711.3	693.5	656.8	610.2
55°	616.8	616.8	616.8	623.5	623.5	623.5	619.0	612.4	595.7	569.0	525.7
57.5°	504.6	505.7	512.4	513.5	512.4	514.6	513.5	506.8	495.7	476.8	443.5
60°	410.1	410.1	413.4	416.8	415.6	416.8	416.8	413.4	402.3	386.8	360.1
62.5°	324.5	327.9	325.6	327.9	332.3	327.9	325.6	323.4	315.6	305.6	283.4
65°	245.6	247.9	247.9	248.9	246.7	247.9	243.4	240.1	235.6	224.5	210.1
67.5°	186.7	186.7	186.7	186.7	185.6	184.5	183.4	180.1	172.3	167.8	152.2
70°	143.4	136.7	136.7	136.7	136.7	137.8	134.5	130.1	127.8	120.0	108.9
72.5°	95.6	97.8	95.6	95.6	93.4	94.5	90.0	87.8	85.6	81.2	74.5
75°	68.9	63.4	65.6	66.7	63.4	65.6	61.1	56.7	56.7	53.3	50.0
77.5°	44.5	43.4	44.5	45.6	44.5	43.4	41.1	38.9	38.9	37.8	34.4
80°	32.3	31.1	31.1	31.1	30.0	31.1	28.9	28.9	26.7	25.6	23.3
82.5°	21.1	21.1	20.0	21.1	20.0	21.1	17.8	17.8	17.8	16.7	14.5
85°	14.5	12.2	12.2	13.4	11.1	13.4	12.2	11.1	10.0	10.0	8.9
87.5°	6.7	7.8	6.7	7.8	6.7	6.7	7.8	6.7	6.7	4.4	4.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2265.0	2266.1	2266.1	2270.6	2272.8	2273.9	2273.9	2282.8	2279.5	2281.7	2283.9
5°	2232.8	2239.4	2241.7	2241.7	2253.9	2258.3	2262.8	2272.8	2273.9	2280.6	2288.3
7.5°	2201.7	2209.4	2213.9	2223.9	2231.7	2239.4	2252.8	2259.5	2266.1	2275.0	2285.0
10°	2171.6	2180.6	2189.4	2197.2	2209.4	2219.4	2228.3	2243.9	2251.7	2263.9	2277.2
12.5°	2142.8	2155.0	2162.8	2176.1	2189.4	2198.3	2211.7	2226.1	2238.3	2250.6	2266.1
15°	2117.2	2131.7	2140.5	2155.0	2169.4	2181.7	2196.1	2213.9	2222.8	2237.2	2251.7
17.5°	2089.4	2105.0	2116.1	2129.4	2147.2	2160.5	2172.8	2190.5	2201.7	2217.2	2233.9
20°	2060.5	2076.1	2089.4	2102.7	2120.5	2133.9	2148.3	2166.1	2178.3	2193.9	2207.2
22.5°	2026.1	2040.5	2054.9	2070.5	2088.3	2099.4	2116.1	2131.7	2145.0	2159.4	2172.8
25°	1981.6	1999.4	2010.5	2024.9	2039.4	2051.6	2069.4	2085.0	2096.1	2109.4	2121.6
27.5°	1929.4	1942.7	1951.6	1963.8	1978.3	1989.4	2002.7	2018.3	2029.4	2041.6	2050.5
30°	1840.4	1852.7	1860.5	1869.4	1883.8	1893.8	1904.9	1919.4	1927.1	1936.1	1943.8
32.5°	1723.7	1733.8	1738.2	1744.9	1754.9	1764.9	1773.8	1786.0	1789.3	1794.9	1794.9
35°	1554.9	1557.0	1555.9	1558.2	1562.6	1568.2	1575.9	1583.7	1588.2	1588.2	1584.9
37.5°	1357.0	1343.7	1329.2	1318.1	1314.8	1312.5	1317.0	1320.3	1324.8	1327.0	1321.5
40°	1151.4	1121.4	1089.2	1060.2	1040.3	1031.4	1028.0	1030.2	1030.2	1038.0	1038.0
42.5°	974.7	928.0	880.2	836.9	808.0	785.8	775.8	775.8	776.9	782.4	785.8
45°	828.0	769.1	713.5	665.7	625.7	596.8	583.5	580.1	579.0	581.2	589.0
47.5°	715.7	654.6	596.8	537.9	495.7	466.8	454.6	450.1	445.7	450.1	451.2
50°	628.0	564.6	503.5	444.6	400.1	374.5	359.0	352.3	351.2	351.2	353.4
52.5°	547.9	489.0	427.9	367.9	321.2	296.8	282.3	279.0	274.5	279.0	279.0
55°	472.3	413.4	353.4	296.8	257.8	232.3	218.9	214.5	212.3	215.6	215.6
57.5°	390.1	340.1	284.5	233.4	194.5	176.7	166.7	161.2	160.0	162.3	160.0
60°	320.1	277.9	230.1	183.4	153.4	134.5	126.7	124.5	122.2	124.5	124.5
62.5°	253.4	217.8	178.9	143.4	117.8	104.5	95.6	95.6	94.5	94.5	95.6
65°	187.8	160.0	132.3	102.2	82.3	72.2	65.6	65.6	64.5	65.6	64.5
67.5°	136.7	117.8	95.6	74.5	58.9	53.3	48.9	45.6	47.8	45.6	44.5
70°	100.0	84.4	68.9	56.7	45.6	40.0	36.7	35.5	33.3	33.3	33.3
72.5°	66.7	56.7	46.7	36.7	30.0	24.4	23.3	21.1	18.9	20.0	22.2
75°	44.5	37.8	33.3	26.7	20.0	20.0	13.4	13.4	11.1	13.4	10.0
77.5°	31.1	25.6	20.0	16.7	13.4	12.2	8.9	8.9	7.8	7.8	7.8
80°	22.2	18.9	14.5	12.2	8.9	8.9	7.8	6.7	5.5	5.5	6.7
82.5°	13.4	10.0	10.0	8.9	5.5	4.4	3.3	4.4	2.2	2.2	2.2
85°	7.8	6.7	5.5	3.3	2.2	2.2	1.1	0.0	1.1	1.1	0.0
87.5°	4.4	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°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2289.5	2288.3	2290.6	2290.6	2297.3	2296.1	2299.5	2299.5	2297.3	2298.4	2302.8
5°	2297.3	2300.6	2307.2	2312.8	2322.8	2327.3	2332.8	2338.4	2339.5	2342.8	2346.2
7.5°	2297.3	2308.4	2316.2	2326.1	2339.5	2347.3	2359.5	2369.5	2373.9	2379.5	2386.1
10°	2292.8	2303.9	2318.3	2329.5	2346.2	2358.4	2370.6	2386.1	2392.8	2401.7	2410.6
12.5°	2283.9	2296.1	2311.7	2326.1	2345.0	2356.1	2371.7	2386.1	2396.2	2408.4	2418.4
15°	2270.6	2285.0	2299.5	2313.9	2333.9	2347.3	2361.7	2378.4	2388.4	2401.7	2410.6
17.5°	2249.5	2265.0	2278.4	2291.7	2310.6	2326.1	2339.5	2355.0	2365.1	2376.2	2388.4
20°	2223.9	2238.3	2252.8	2263.9	2282.8	2296.1	2310.6	2325.0	2332.8	2335.0	2353.9
22.5°	2191.7	2201.7	2212.8	2230.6	2241.7	2253.9	2267.2	2280.6	2288.3	2300.6	2307.2
25°	2138.3	2148.3	2160.5	2168.3	2181.7	2191.7	2205.0	2219.4	2223.9	2232.8	2239.4
27.5°	2063.9	2069.4	2075.0	2081.6	2089.4	2095.0	2102.7	2109.4	2113.9	2118.3	2122.7
30°	1946.0	1946.0	1946.0	1941.6	1944.9	1948.3	1949.4	1948.3	1948.3	1947.2	1947.2
32.5°	1790.4	1781.6	1771.5	1762.7	1759.3	1754.9	1752.7	1749.3	1743.8	1740.4	1741.5
35°	1580.4	1560.4	1548.2	1537.1	1528.2	1521.5	1518.2	1514.8	1513.7	1509.3	1504.8
37.5°	1318.1	1303.7	1294.8	1288.1	1280.3	1273.7	1274.8	1275.9	1279.2	1277.0	1278.1
40°	1040.3	1036.9	1040.3	1032.5	1030.2	1032.5	1038.0	1045.8	1050.3	1054.7	1062.5
42.5°	791.3	796.8	804.7	804.7	808.0	812.4	819.1	831.3	838.0	845.7	854.7
45°	595.7	602.4	612.4	615.7	617.9	623.5	631.3	641.3	645.7	652.4	660.2
47.5°	459.0	463.4	469.0	474.6	480.1	482.3	490.1	490.1	495.7	500.1	502.3
50°	357.9	362.3	366.7	370.1	372.3	375.7	377.9	381.2	382.3	384.5	385.6
52.5°	280.1	285.6	285.6	287.8	291.2	294.5	293.4	294.5	295.6	295.6	298.9
55°	218.9	218.9	222.3	222.3	224.5	223.4	224.5	224.5	224.5	224.5	225.6
57.5°	163.4	164.5	167.8	165.6	164.5	166.7	164.5	166.7	165.6	167.8	164.5
60°	125.6	125.6	126.7	126.7	127.8	127.8	127.8	126.7	126.7	125.6	125.6
62.5°	94.5	95.6	96.7	95.6	95.6	95.6	94.5	94.5	93.4	92.2	92.2
65°	63.4	62.3	64.5	62.3	63.4	63.4	62.3	63.4	60.0	61.1	60.0
67.5°	45.6	44.5	43.4	44.5	43.4	42.2	42.2	43.4	44.5	41.1	41.1
70°	30.0	31.1	30.0	31.1	32.3	32.3	31.1	30.0	31.1	28.9	30.0
72.5°	18.9	18.9	18.9	18.9	18.9	20.0	20.0	20.0	17.8	17.8	16.7
75°	8.9	12.2	10.0	8.9	12.2	12.2	11.1	11.1	10.0	10.0	10.0
77.5°	8.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	5.5	6.7	5.5
80°	4.4	4.4	4.4	3.3	4.4	4.4	5.5	4.4	4.4	3.3	5.5
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: P244583

CATALOG NUMBER: LD8B50D010 ER8B509727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2301.7	2300.6	2301.7	2302.8	2301.7	2300.6	2301.7	2302.8	2298.4	2297.3	2299.5
5°	2350.6	2350.6	2352.8	2353.9	2352.8	2350.6	2350.6	2346.2	2342.8	2339.5	2338.4
7.5°	2392.8	2395.1	2397.3	2398.4	2397.3	2395.1	2392.8	2386.1	2379.5	2373.9	2369.5
10°	2418.4	2421.7	2426.2	2428.4	2426.2	2421.7	2418.4	2410.6	2401.7	2392.8	2386.1
12.5°	2429.5	2432.8	2438.4	2437.3	2438.4	2432.8	2429.5	2418.4	2408.4	2396.2	2386.1
15°	2421.7	2426.2	2431.7	2433.9	2431.7	2426.2	2421.7	2410.6	2401.7	2388.4	2378.4
17.5°	2397.3	2403.9	2407.3	2410.6	2407.3	2403.9	2397.3	2388.4	2376.2	2365.1	2355.0
20°	2363.9	2368.4	2372.8	2373.9	2372.8	2368.4	2363.9	2353.9	2335.0	2332.8	2325.0
22.5°	2316.2	2319.5	2329.5	2326.1	2329.5	2319.5	2316.2	2307.2	2300.6	2288.3	2280.6
25°	2247.2	2250.6	2251.7	2252.8	2251.7	2250.6	2247.2	2239.4	2232.8	2223.9	2219.4
27.5°	2128.3	2128.3	2130.5	2131.7	2130.5	2128.3	2128.3	2122.7	2118.3	2113.9	2109.4
30°	1948.3	1948.3	1948.3	1953.8	1948.3	1948.3	1948.3	1947.2	1947.2	1948.3	1948.3
32.5°	1740.4	1738.2	1736.0	1738.2	1736.0	1738.2	1740.4	1741.5	1740.4	1743.8	1749.3
35°	1504.8	1503.7	1507.0	1502.6	1507.0	1503.7	1504.8	1504.8	1509.3	1513.7	1514.8
37.5°	1279.2	1277.0	1281.4	1277.0	1281.4	1277.0	1279.2	1278.1	1277.0	1279.2	1275.9
40°	1064.7	1066.9	1066.9	1075.8	1066.9	1066.9	1064.7	1062.5	1054.7	1050.3	1045.8
42.5°	859.1	865.8	863.5	870.2	863.5	865.8	859.1	854.7	845.7	838.0	831.3
45°	664.6	669.1	669.1	671.3	669.1	669.1	664.6	660.2	652.4	645.7	641.3
47.5°	510.1	510.1	510.1	511.3	510.1	510.1	510.1	502.3	500.1	495.7	490.1
50°	387.9	389.0	390.1	391.2	390.1	389.0	387.9	385.6	384.5	382.3	381.2
52.5°	297.9	298.9	296.8	298.9	296.8	298.9	297.9	298.9	295.6	295.6	294.5
55°	225.6	224.5	225.6	226.7	225.6	224.5	225.6	225.6	224.5	224.5	224.5
57.5°	165.6	163.4	163.4	163.4	163.4	163.4	165.6	164.5	167.8	165.6	166.7
60°	123.4	124.5	124.5	125.6	124.5	124.5	123.4	125.6	125.6	126.7	126.7
62.5°	91.1	94.5	92.2	94.5	92.2	94.5	91.1	92.2	92.2	93.4	94.5
65°	58.9	58.9	58.9	60.0	58.9	58.9	58.9	60.0	61.1	60.0	63.4
67.5°	40.0	41.1	43.4	42.2	43.4	41.1	40.0	41.1	41.1	44.5	43.4
70°	32.3	28.9	28.9	32.3	28.9	28.9	32.3	30.0	28.9	31.1	30.0
72.5°	18.9	16.7	18.9	18.9	18.9	16.7	18.9	16.7	17.8	17.8	20.0
75°	10.0	8.9	7.8	11.1	7.8	8.9	10.0	10.0	10.0	10.0	11.1
77.5°	6.7	5.5	7.8	7.8	7.8	5.5	6.7	5.5	6.7	5.5	6.7
80°	3.3	4.4	3.3	5.5	3.3	4.4	3.3	5.5	3.3	4.4	4.4
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: P244583

CATALOG NUMBER: LD8B50D010 ER8B509727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2299.5	2296.1	2297.3	2290.6	2290.6	2288.3	2289.5	2283.9	2281.7	2279.5	2282.8
5°	2332.8	2327.3	2322.8	2312.8	2307.2	2300.6	2297.3	2288.3	2280.6	2273.9	2272.8
7.5°	2359.5	2347.3	2339.5	2326.1	2316.2	2308.4	2297.3	2285.0	2275.0	2266.1	2259.5
10°	2370.6	2358.4	2346.2	2329.5	2318.3	2303.9	2292.8	2277.2	2263.9	2251.7	2243.9
12.5°	2371.7	2356.1	2345.0	2326.1	2311.7	2296.1	2283.9	2266.1	2250.6	2238.3	2226.1
15°	2361.7	2347.3	2333.9	2313.9	2299.5	2285.0	2270.6	2251.7	2237.2	2222.8	2213.9
17.5°	2339.5	2326.1	2310.6	2291.7	2278.4	2265.0	2249.5	2233.9	2217.2	2201.7	2190.5
20°	2310.6	2296.1	2282.8	2263.9	2252.8	2238.3	2223.9	2207.2	2193.9	2178.3	2166.1
22.5°	2267.2	2253.9	2241.7	2230.6	2212.8	2201.7	2191.7	2172.8	2159.4	2145.0	2131.7
25°	2205.0	2191.7	2181.7	2168.3	2160.5	2148.3	2138.3	2121.6	2109.4	2096.1	2085.0
27.5°	2102.7	2095.0	2089.4	2081.6	2075.0	2069.4	2063.9	2050.5	2041.6	2029.4	2018.3
30°	1949.4	1948.3	1944.9	1941.6	1946.0	1946.0	1946.0	1943.8	1936.1	1927.1	1919.4
32.5°	1752.7	1754.9	1759.3	1762.7	1771.5	1781.6	1790.4	1794.9	1794.9	1789.3	1786.0
35°	1518.2	1521.5	1528.2	1537.1	1548.2	1560.4	1580.4	1584.9	1588.2	1588.2	1583.7
37.5°	1274.8	1273.7	1280.3	1288.1	1294.8	1303.7	1318.1	1321.5	1327.0	1324.8	1320.3
40°	1038.0	1032.5	1030.2	1032.5	1040.3	1036.9	1040.3	1038.0	1038.0	1030.2	1030.2
42.5°	819.1	812.4	808.0	804.7	804.7	796.8	791.3	785.8	782.4	776.9	775.8
45°	631.3	623.5	617.9	615.7	612.4	602.4	595.7	589.0	581.2	579.0	580.1
47.5°	490.1	482.3	480.1	474.6	469.0	463.4	459.0	451.2	450.1	445.7	450.1
50°	377.9	375.7	372.3	370.1	366.7	362.3	357.9	353.4	351.2	351.2	352.3
52.5°	293.4	294.5	291.2	287.8	285.6	285.6	280.1	279.0	279.0	274.5	279.0
55°	224.5	223.4	224.5	222.3	222.3	218.9	218.9	215.6	215.6	212.3	214.5
57.5°	164.5	166.7	164.5	165.6	167.8	164.5	163.4	160.0	162.3	160.0	161.2
60°	127.8	127.8	127.8	126.7	126.7	125.6	125.6	124.5	124.5	122.2	124.5
62.5°	94.5	95.6	95.6	95.6	96.7	95.6	94.5	95.6	94.5	94.5	95.6
65°	62.3	63.4	63.4	62.3	64.5	62.3	63.4	64.5	65.6	64.5	65.6
67.5°	42.2	42.2	43.4	44.5	43.4	44.5	45.6	44.5	45.6	47.8	45.6
70°	31.1	32.3	32.3	31.1	30.0	31.1	30.0	33.3	33.3	33.3	35.5
72.5°	20.0	20.0	18.9	18.9	18.9	18.9	18.9	22.2	20.0	18.9	21.1
75°	11.1	12.2	12.2	8.9	10.0	12.2	8.9	10.0	13.4	11.1	13.4
77.5°	6.7	6.7	6.7	6.7	6.7	6.7	8.9	7.8	7.8	7.8	8.9
80°	5.5	4.4	4.4	3.3	4.4	4.4	4.4	6.7	5.5	5.5	6.7
82.5°	2.2	2.2	1.1	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.4
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: P244583

CATALOG NUMBER: LD8B50D010 ER8B509727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2273.9	2273.9	2272.8	2270.6	2266.1	2266.1	2265.0	2261.7	2259.5	2258.3	2258.3
5°	2262.8	2258.3	2253.9	2241.7	2241.7	2239.4	2232.8	2228.3	2226.1	2220.5	2218.3
7.5°	2252.8	2239.4	2231.7	2223.9	2213.9	2209.4	2201.7	2198.3	2190.5	2185.0	2181.7
10°	2228.3	2219.4	2209.4	2197.2	2189.4	2180.6	2171.6	2165.0	2155.0	2149.4	2145.0
12.5°	2211.7	2198.3	2189.4	2176.1	2162.8	2155.0	2142.8	2135.0	2125.0	2113.9	2107.2
15°	2196.1	2181.7	2169.4	2155.0	2140.5	2131.7	2117.2	2108.3	2093.9	2082.8	2075.0
17.5°	2172.8	2160.5	2147.2	2129.4	2116.1	2105.0	2089.4	2078.3	2065.0	2050.5	2042.7
20°	2148.3	2133.9	2120.5	2102.7	2089.4	2076.1	2060.5	2048.3	2032.7	2019.4	2010.5
22.5°	2116.1	2099.4	2088.3	2070.5	2054.9	2040.5	2026.1	2011.6	1997.2	1986.1	1976.0
25°	2069.4	2051.6	2039.4	2024.9	2010.5	1999.4	1981.6	1972.7	1958.3	1948.3	1938.2
27.5°	2002.7	1989.4	1978.3	1963.8	1951.6	1942.7	1929.4	1920.5	1908.2	1899.4	1891.6
30°	1904.9	1893.8	1883.8	1869.4	1860.5	1852.7	1840.4	1832.7	1823.8	1813.8	1811.6
32.5°	1773.8	1764.9	1754.9	1744.9	1738.2	1733.8	1723.7	1719.3	1710.4	1704.9	1699.3
35°	1575.9	1568.2	1562.6	1558.2	1555.9	1557.0	1554.9	1559.3	1561.5	1560.4	1561.5
37.5°	1317.0	1312.5	1314.8	1318.1	1329.2	1343.7	1357.0	1377.0	1390.3	1403.7	1415.9
40°	1028.0	1031.4	1040.3	1060.2	1089.2	1121.4	1151.4	1189.2	1227.0	1253.7	1278.1
42.5°	775.8	785.8	808.0	836.9	880.2	928.0	974.7	1030.2	1075.8	1120.3	1151.4
45°	583.5	596.8	625.7	665.7	713.5	769.1	828.0	890.2	944.7	990.3	1024.7
47.5°	454.6	466.8	495.7	537.9	596.8	654.6	715.7	780.2	836.9	881.3	911.3
50°	359.0	374.5	400.1	444.6	503.5	564.6	628.0	691.3	744.6	782.4	809.1
52.5°	282.3	296.8	321.2	367.9	427.9	489.0	547.9	610.2	656.8	693.5	711.3
55°	218.9	232.3	257.8	296.8	353.4	413.4	472.3	525.7	569.0	595.7	612.4
57.5°	166.7	176.7	194.5	233.4	284.5	340.1	390.1	443.5	476.8	495.7	506.8
60°	126.7	134.5	153.4	183.4	230.1	277.9	320.1	360.1	386.8	402.3	413.4
62.5°	95.6	104.5	117.8	143.4	178.9	217.8	253.4	283.4	305.6	315.6	323.4
65°	65.6	72.2	82.3	102.2	132.3	160.0	187.8	210.1	224.5	235.6	240.1
67.5°	48.9	53.3	58.9	74.5	95.6	117.8	136.7	152.2	167.8	172.3	180.1
70°	36.7	40.0	45.6	56.7	68.9	84.4	100.0	108.9	120.0	127.8	130.1
72.5°	23.3	24.4	30.0	36.7	46.7	56.7	66.7	74.5	81.2	85.6	87.8
75°	13.4	20.0	20.0	26.7	33.3	37.8	44.5	50.0	53.3	56.7	56.7
77.5°	8.9	12.2	13.4	16.7	20.0	25.6	31.1	34.4	37.8	38.9	38.9
80°	7.8	8.9	8.9	12.2	14.5	18.9	22.2	23.3	25.6	26.7	28.9
82.5°	3.3	4.4	5.5	8.9	10.0	10.0	13.4	14.5	16.7	17.8	17.8
85°	1.1	2.2	2.2	3.3	5.5	6.7	7.8	8.9	10.0	10.0	11.1
87.5°	1.1	1.1	0.0	1.1	2.2	2.2	4.4	4.4	4.4	6.7	6.7
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: P244583

CATALOG NUMBER: LD8B50D010 ER8B509727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1	2276.1
2.5°	2256.1	2257.2	2252.8	2251.7	2249.5	2250.6	2252.8
5°	2215.0	2216.1	2211.7	2207.2	2207.2	2206.1	2207.2
7.5°	2176.1	2177.2	2170.5	2168.3	2163.9	2165.0	2165.0
10°	2137.2	2137.2	2127.2	2126.1	2122.7	2121.6	2121.6
12.5°	2099.4	2096.1	2088.3	2083.9	2086.1	2079.4	2079.4
15°	2066.1	2060.5	2050.5	2047.2	2041.6	2039.4	2039.4
17.5°	2031.6	2027.2	2018.3	2011.6	2004.9	2003.8	2004.9
20°	1998.3	1993.8	1982.7	1978.3	1972.7	1972.7	1970.5
22.5°	1964.9	1960.5	1950.5	1947.2	1939.4	1939.4	1940.5
25°	1930.5	1927.1	1916.0	1913.8	1912.7	1908.2	1910.5
27.5°	1883.8	1881.6	1872.7	1869.4	1864.9	1863.8	1866.0
30°	1798.2	1794.9	1788.2	1784.9	1777.1	1778.2	1780.4
32.5°	1691.5	1687.1	1678.2	1674.8	1668.2	1666.0	1667.1
35°	1558.2	1554.9	1547.1	1547.1	1540.4	1538.2	1540.4
37.5°	1422.6	1425.9	1422.6	1425.9	1422.6	1421.5	1422.6
40°	1294.8	1307.0	1309.2	1321.5	1317.0	1323.7	1322.6
42.5°	1172.5	1192.5	1200.3	1210.3	1208.1	1212.5	1215.9
45°	1049.1	1065.8	1073.6	1080.3	1081.4	1083.6	1084.7
47.5°	932.4	945.8	946.9	954.7	953.6	953.6	956.9
50°	823.6	832.4	834.6	840.2	835.8	833.5	834.6
52.5°	722.4	731.3	729.0	731.3	725.8	723.5	724.6
55°	619.0	623.5	623.5	623.5	616.8	616.8	616.8
57.5°	513.5	514.6	512.4	513.5	512.4	505.7	504.6
60°	416.8	416.8	415.6	416.8	413.4	410.1	410.1
62.5°	325.6	327.9	332.3	327.9	325.6	327.9	324.5
65°	243.4	247.9	246.7	248.9	247.9	247.9	245.6
67.5°	183.4	184.5	185.6	186.7	186.7	186.7	186.7
70°	134.5	137.8	136.7	136.7	136.7	136.7	143.4
72.5°	90.0	94.5	93.4	95.6	95.6	97.8	95.6
75°	61.1	65.6	63.4	66.7	65.6	63.4	68.9
77.5°	41.1	43.4	44.5	45.6	44.5	43.4	44.5
80°	28.9	31.1	30.0	31.1	31.1	31.1	32.3
82.5°	17.8	21.1	20.0	21.1	20.0	21.1	21.1
85°	12.2	13.4	11.1	13.4	12.2	12.2	14.5
87.5°	7.8	6.7	6.7	7.8	6.7	7.8	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)