

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: P244589

Luminaire Tested: **LD8B50D010 ER8B509730 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244589
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 ER8B509730 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4056.0 lumens
Efficiency: N/A
Efficacy: 76.5 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

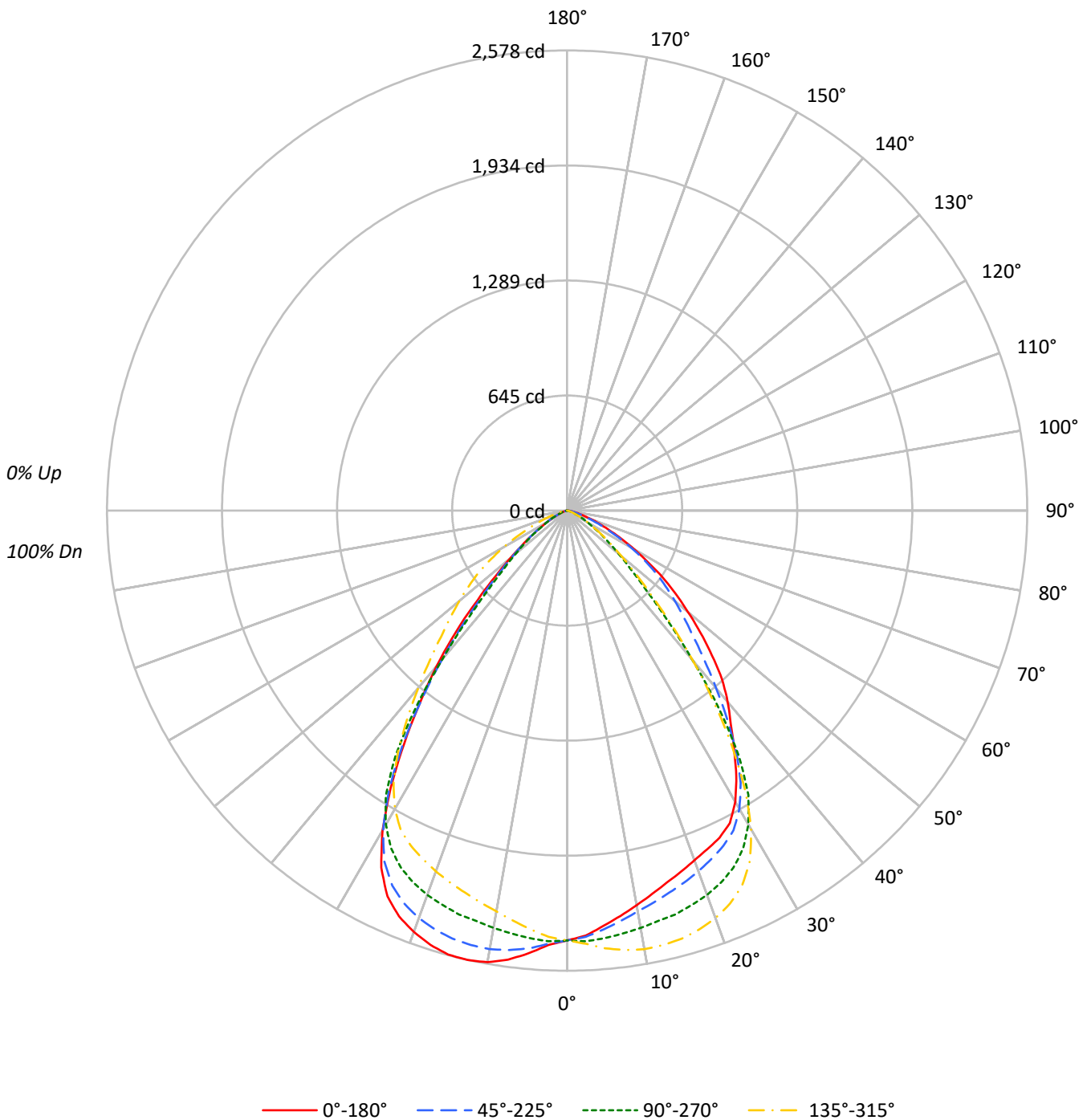
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	229.2	5.7
10°-20°	663.7	16.4
20°-30°	1005.0	24.8
30°-40°	1007.2	24.8
40°-50°	632.5	15.6
50°-60°	337.0	8.3
60°-70°	138.6	3.4
70°-80°	36.6	0.9
80°-90°	6.2	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°	1897.8	46.8
0°-40°	2905.1	71.6
0°-60°	3874.6	95.5
0°-90°	4056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4056.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2408	2408	2408	2408	2408	
5°	2335	2404	2490	2404	2335	220
15°	2158	2342	2575	2342	2158	610
25°	2021	2206	2383	2206	2021	927
35°	1630	1675	1590	1675	1630	1021
45°	1148	614	710	614	1148	883
55°	653	227	240	227	653	582
65°	260	69	64	69	260	270
75°	73	14	12	14	73	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°	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9
2.5°	2383.2	2380.9	2379.7	2382.1	2383.2	2387.9	2386.8	2389.1	2389.1	2390.3	2392.6
5°	2335.0	2333.8	2335.0	2335.0	2339.7	2344.4	2343.3	2346.8	2349.1	2355.0	2357.3
7.5°	2290.4	2290.4	2289.2	2293.9	2296.2	2303.3	2302.1	2308.0	2311.5	2317.4	2325.6
10°	2244.5	2244.5	2245.7	2249.2	2250.4	2260.9	2260.9	2269.2	2273.9	2279.8	2290.4
12.5°	2199.8	2199.8	2206.9	2204.5	2209.2	2217.4	2221.0	2229.2	2236.3	2248.0	2258.6
15°	2157.5	2157.5	2159.8	2165.7	2169.2	2179.8	2185.7	2195.1	2203.4	2215.1	2230.4
17.5°	2121.0	2119.9	2121.0	2128.1	2135.2	2144.6	2149.2	2161.0	2169.2	2184.5	2198.7
20°	2084.6	2087.0	2087.0	2092.8	2097.5	2109.3	2114.0	2126.9	2136.3	2150.4	2166.9
22.5°	2052.8	2051.7	2051.7	2059.9	2063.4	2074.0	2078.7	2090.5	2101.0	2112.8	2128.1
25°	2021.1	2018.7	2023.5	2024.6	2027.0	2038.7	2042.2	2050.5	2061.1	2071.7	2087.0
27.5°	1974.1	1971.7	1972.9	1977.6	1981.1	1990.5	1992.9	2001.1	2009.3	2018.7	2031.7
30°	1883.5	1881.2	1880.0	1888.3	1891.8	1898.8	1902.3	1916.5	1918.8	1929.4	1938.8
32.5°	1763.6	1762.4	1764.8	1771.8	1775.4	1784.8	1789.5	1797.7	1803.6	1809.5	1818.9
35°	1629.6	1627.2	1629.6	1636.7	1636.7	1644.9	1648.4	1651.9	1650.7	1651.9	1649.6
37.5°	1505.0	1503.8	1505.0	1508.5	1505.0	1508.5	1505.0	1497.9	1485.0	1470.9	1456.7
40°	1399.1	1400.3	1393.3	1398.0	1385.0	1382.7	1369.8	1352.1	1326.3	1298.0	1258.1
42.5°	1286.3	1282.7	1278.1	1280.4	1269.8	1261.5	1240.4	1218.1	1185.1	1138.1	1089.9
45°	1147.5	1146.4	1144.0	1142.8	1135.8	1127.5	1109.9	1084.0	1047.6	999.4	941.8
47.5°	1012.3	1008.8	1008.8	1009.9	1001.7	1000.6	986.4	964.1	932.4	885.3	825.4
50°	883.0	881.8	884.2	888.9	883.0	880.6	871.2	856.0	827.7	787.8	731.3
52.5°	766.6	765.4	767.8	773.6	771.3	773.6	764.2	752.5	733.7	694.8	645.5
55°	652.6	652.6	652.6	659.6	659.6	659.6	654.9	647.9	630.2	602.0	556.2
57.5°	533.8	535.0	542.0	543.2	542.0	544.4	543.2	536.1	524.4	504.4	469.1
60°	433.9	433.9	437.4	440.9	439.7	440.9	440.9	437.4	425.6	409.2	381.0
62.5°	343.3	346.8	344.5	346.8	351.5	346.8	344.5	342.1	333.9	323.3	299.8
65°	259.8	262.2	262.2	263.4	261.0	262.2	257.5	254.0	249.3	237.5	222.2
67.5°	197.5	197.5	197.5	197.5	196.3	195.2	194.0	190.5	182.3	177.6	161.1
70°	151.7	144.6	144.6	144.6	144.6	145.8	142.3	137.6	135.2	127.0	115.2
72.5°	101.1	103.5	101.1	101.1	98.8	99.9	95.2	92.9	90.5	85.9	78.8
75°	72.9	67.0	69.3	70.6	67.0	69.3	64.7	60.0	60.0	56.4	52.9
77.5°	47.0	45.9	47.0	48.2	47.0	45.9	43.5	41.1	41.1	40.0	36.4
80°	34.1	32.9	32.9	32.9	31.7	32.9	30.6	30.6	28.2	27.1	24.7
82.5°	22.4	22.4	21.1	22.4	21.1	22.4	18.8	18.8	18.8	17.6	15.3
85°	15.3	12.9	12.9	14.1	11.8	14.1	12.9	11.8	10.6	10.6	9.4
87.5°	7.1	8.2	7.1	8.2	7.1	7.1	8.2	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°	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9
2.5°	2396.2	2397.3	2397.3	2402.1	2404.4	2405.5	2405.5	2415.0	2411.5	2413.8	2416.1
5°	2362.1	2369.1	2371.5	2371.5	2384.4	2389.1	2393.8	2404.4	2405.5	2412.6	2420.8
7.5°	2329.1	2337.4	2342.1	2352.7	2360.9	2369.1	2383.2	2390.3	2397.3	2406.8	2417.3
10°	2297.4	2306.8	2316.2	2324.4	2337.4	2348.0	2357.3	2373.8	2382.1	2395.0	2409.1
12.5°	2266.8	2279.8	2288.0	2302.1	2316.2	2325.6	2339.7	2355.0	2367.9	2380.9	2397.3
15°	2239.8	2255.1	2264.5	2279.8	2295.1	2308.0	2323.3	2342.1	2351.5	2366.8	2382.1
17.5°	2210.4	2226.9	2238.6	2252.7	2271.5	2285.6	2298.6	2317.4	2329.1	2345.6	2363.3
20°	2179.8	2196.3	2210.4	2224.5	2243.3	2257.4	2272.7	2291.5	2304.5	2320.9	2335.0
22.5°	2143.4	2158.7	2173.9	2190.4	2209.2	2221.0	2238.6	2255.1	2269.2	2284.5	2298.6
25°	2096.4	2115.2	2126.9	2142.2	2157.5	2170.4	2189.2	2205.7	2217.4	2231.6	2244.5
27.5°	2041.1	2055.2	2064.6	2077.5	2092.8	2104.6	2118.7	2135.2	2146.9	2159.8	2169.2
30°	1947.0	1960.0	1968.2	1977.6	1992.9	2003.5	2015.2	2030.5	2038.7	2048.2	2056.4
32.5°	1823.6	1834.2	1838.8	1845.9	1856.5	1867.1	1876.5	1889.4	1893.0	1898.8	1898.8
35°	1644.9	1647.2	1646.0	1648.4	1653.1	1659.0	1667.2	1675.4	1680.1	1680.1	1676.6
37.5°	1435.6	1421.5	1406.2	1394.4	1390.9	1388.5	1393.3	1396.8	1401.5	1403.8	1398.0
40°	1218.1	1186.3	1152.2	1121.6	1100.5	1091.1	1087.6	1089.9	1089.9	1098.1	1098.1
42.5°	1031.1	981.7	931.2	885.3	854.7	831.3	820.7	820.7	821.8	827.7	831.3
45°	875.9	813.6	754.8	704.3	661.9	631.4	617.3	613.7	612.6	614.9	623.1
47.5°	757.2	692.5	631.4	569.1	524.4	493.8	480.9	476.2	471.5	476.2	477.4
50°	664.3	597.3	532.6	470.3	423.3	396.2	379.8	372.7	371.5	371.5	373.9
52.5°	579.6	517.3	452.7	389.2	339.8	313.9	298.6	295.1	290.4	295.1	295.1
55°	499.7	437.4	373.9	313.9	272.8	245.7	231.6	226.9	224.6	228.1	228.1
57.5°	412.7	359.8	301.0	246.9	205.8	186.9	176.3	170.5	169.3	171.7	169.3
60°	338.6	293.9	243.4	194.0	162.3	142.3	134.1	131.7	129.3	131.7	131.7
62.5°	268.1	230.5	189.3	151.7	124.6	110.5	101.1	101.1	99.9	99.9	101.1
65°	198.7	169.3	139.9	108.2	87.0	76.4	69.3	69.3	68.2	69.3	68.2
67.5°	144.6	124.6	101.1	78.8	62.3	56.4	51.7	48.2	50.6	48.2	47.0
70°	105.8	89.3	72.9	60.0	48.2	42.3	38.8	37.6	35.3	35.3	35.3
72.5°	70.6	60.0	49.4	38.8	31.7	25.8	24.7	22.4	20.0	21.1	23.5
75°	47.0	40.0	35.3	28.2	21.1	21.1	14.1	14.1	11.8	14.1	10.6
77.5°	32.9	27.1	21.1	17.6	14.1	12.9	9.4	9.4	8.2	8.2	8.2
80°	23.5	20.0	15.3	12.9	9.4	9.4	8.2	7.1	5.9	5.9	7.1
82.5°	14.1	10.6	10.6	9.4	5.9	4.7	3.5	4.7	2.4	2.4	2.4
85°	8.2	7.1	5.9	3.5	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°	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9
2.5°	2422.0	2420.8	2423.2	2423.2	2430.3	2429.1	2432.6	2432.6	2430.3	2431.4	2436.1
5°	2430.3	2433.8	2440.8	2446.7	2457.3	2462.0	2467.9	2473.8	2474.9	2478.5	2482.0
7.5°	2430.3	2442.0	2450.3	2460.8	2474.9	2483.2	2496.1	2506.7	2511.4	2517.2	2524.3
10°	2425.5	2437.3	2452.6	2464.3	2482.0	2494.9	2507.9	2524.3	2531.4	2540.8	2550.2
12.5°	2416.1	2429.1	2445.5	2460.8	2480.8	2492.6	2509.0	2524.3	2534.9	2547.8	2558.4
15°	2402.1	2417.3	2432.6	2447.9	2469.0	2483.2	2498.5	2516.1	2526.7	2540.8	2550.2
17.5°	2379.7	2396.2	2410.3	2424.4	2444.4	2460.8	2474.9	2491.4	2502.0	2513.8	2526.7
20°	2352.7	2367.9	2383.2	2395.0	2415.0	2429.1	2444.4	2459.7	2467.9	2470.3	2490.2
22.5°	2318.6	2329.1	2340.9	2359.7	2371.5	2384.4	2398.5	2412.6	2420.8	2433.8	2440.8
25°	2262.1	2272.7	2285.6	2293.9	2308.0	2318.6	2332.7	2348.0	2352.7	2362.1	2369.1
27.5°	2183.4	2189.2	2195.1	2202.1	2210.4	2216.3	2224.5	2231.6	2236.3	2241.0	2245.7
30°	2058.7	2058.7	2058.7	2054.0	2057.5	2061.1	2062.2	2061.1	2061.1	2059.9	2059.9
32.5°	1894.1	1884.7	1874.1	1864.7	1861.2	1856.5	1854.1	1850.6	1844.8	1841.2	1842.4
35°	1671.9	1650.7	1637.8	1626.1	1616.7	1609.6	1606.1	1602.5	1601.4	1596.7	1591.9
37.5°	1394.4	1379.1	1369.8	1362.7	1354.5	1347.4	1348.6	1349.8	1353.3	1350.9	1352.1
40°	1100.5	1097.0	1100.5	1092.3	1089.9	1092.3	1098.1	1106.4	1111.1	1115.8	1124.0
42.5°	837.1	843.0	851.3	851.3	854.7	859.5	866.5	879.5	886.5	894.7	904.2
45°	630.2	637.3	647.9	651.3	653.7	659.6	667.8	678.4	683.1	690.2	698.4
47.5°	485.6	490.3	496.1	502.0	507.9	510.3	518.5	518.5	524.4	529.1	531.4
50°	378.6	383.3	388.0	391.5	393.9	397.4	399.7	403.3	404.4	406.8	408.0
52.5°	296.3	302.2	302.2	304.5	308.0	311.6	310.4	311.6	312.7	312.7	316.3
55°	231.6	231.6	235.1	235.1	237.5	236.3	237.5	237.5	237.5	237.5	238.7
57.5°	172.8	174.0	177.6	175.2	174.0	176.3	174.0	176.3	175.2	177.6	174.0
60°	132.8	132.8	134.1	134.1	135.2	135.2	135.2	134.1	134.1	132.8	132.8
62.5°	99.9	101.1	102.3	101.1	101.1	101.1	99.9	99.9	98.8	97.6	97.6
65°	67.0	65.9	68.2	65.9	67.0	67.0	65.9	67.0	63.5	64.7	63.5
67.5°	48.2	47.0	45.9	47.0	45.9	44.7	44.7	45.9	47.0	43.5	43.5
70°	31.7	32.9	31.7	32.9	34.1	34.1	32.9	31.7	32.9	30.6	31.7
72.5°	20.0	20.0	20.0	20.0	20.0	21.1	21.1	21.1	18.8	18.8	17.6
75°	9.4	12.9	10.6	9.4	12.9	12.9	11.8	11.8	10.6	10.6	10.6
77.5°	9.4	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	3.5	4.7	4.7	5.9	4.7	4.7	3.5	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: P244589

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9
2.5°	2435.0	2433.8	2435.0	2436.1	2435.0	2433.8	2435.0	2436.1	2431.4	2430.3	2432.6
5°	2486.7	2486.7	2489.0	2490.2	2489.0	2486.7	2486.7	2482.0	2478.5	2474.9	2473.8
7.5°	2531.4	2533.7	2536.1	2537.2	2536.1	2533.7	2531.4	2524.3	2517.2	2511.4	2506.7
10°	2558.4	2562.0	2566.7	2569.0	2566.7	2562.0	2558.4	2550.2	2540.8	2531.4	2524.3
12.5°	2570.2	2573.7	2579.6	2578.4	2579.6	2573.7	2570.2	2558.4	2547.8	2534.9	2524.3
15°	2562.0	2566.7	2572.5	2574.9	2572.5	2566.7	2562.0	2550.2	2540.8	2526.7	2516.1
17.5°	2536.1	2543.1	2546.7	2550.2	2546.7	2543.1	2536.1	2526.7	2513.8	2502.0	2491.4
20°	2500.8	2505.5	2510.2	2511.4	2510.2	2505.5	2500.8	2490.2	2470.3	2467.9	2459.7
22.5°	2450.3	2453.8	2464.3	2460.8	2464.3	2453.8	2450.3	2440.8	2433.8	2420.8	2412.6
25°	2377.3	2380.9	2382.1	2383.2	2382.1	2380.9	2377.3	2369.1	2362.1	2352.7	2348.0
27.5°	2251.6	2251.6	2253.9	2255.1	2253.9	2251.6	2251.6	2245.7	2241.0	2236.3	2231.6
30°	2061.1	2061.1	2061.1	2067.0	2061.1	2061.1	2061.1	2059.9	2059.9	2061.1	2061.1
32.5°	1841.2	1838.8	1836.5	1838.8	1836.5	1838.8	1841.2	1842.4	1841.2	1844.8	1850.6
35°	1591.9	1590.8	1594.3	1589.6	1594.3	1590.8	1591.9	1591.9	1596.7	1601.4	1602.5
37.5°	1353.3	1350.9	1355.6	1350.9	1355.6	1350.9	1353.3	1352.1	1350.9	1353.3	1349.8
40°	1126.4	1128.7	1128.7	1138.1	1128.7	1128.7	1126.4	1124.0	1115.8	1111.1	1106.4
42.5°	908.8	915.9	913.5	920.6	913.5	915.9	908.8	904.2	894.7	886.5	879.5
45°	703.1	707.8	707.8	710.1	707.8	707.8	703.1	698.4	690.2	683.1	678.4
47.5°	539.6	539.6	539.6	540.9	539.6	539.6	539.6	531.4	529.1	524.4	518.5
50°	410.3	411.5	412.7	413.9	412.7	411.5	410.3	408.0	406.8	404.4	403.3
52.5°	315.1	316.3	313.9	316.3	313.9	316.3	315.1	316.3	312.7	312.7	311.6
55°	238.7	237.5	238.7	239.8	238.7	237.5	238.7	238.7	237.5	237.5	237.5
57.5°	175.2	172.8	172.8	172.8	172.8	172.8	175.2	174.0	177.6	175.2	176.3
60°	130.5	131.7	131.7	132.8	131.7	131.7	130.5	132.8	132.8	134.1	134.1
62.5°	96.4	99.9	97.6	99.9	97.6	99.9	96.4	97.6	97.6	98.8	99.9
65°	62.3	62.3	62.3	63.5	62.3	62.3	62.3	63.5	64.7	63.5	67.0
67.5°	42.3	43.5	45.9	44.7	45.9	43.5	42.3	43.5	43.5	47.0	45.9
70°	34.1	30.6	30.6	34.1	30.6	30.6	34.1	31.7	30.6	32.9	31.7
72.5°	20.0	17.6	20.0	20.0	20.0	17.6	20.0	17.6	18.8	18.8	21.1
75°	10.6	9.4	8.2	11.8	8.2	9.4	10.6	10.6	10.6	10.6	11.8
77.5°	7.1	5.9	8.2	8.2	8.2	5.9	7.1	5.9	7.1	5.9	7.1
80°	3.5	4.7	3.5	5.9	3.5	4.7	3.5	5.9	3.5	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: P244589

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9
2.5°	2432.6	2429.1	2430.3	2423.2	2423.2	2420.8	2422.0	2416.1	2413.8	2411.5	2415.0
5°	2467.9	2462.0	2457.3	2446.7	2440.8	2433.8	2430.3	2420.8	2412.6	2405.5	2404.4
7.5°	2496.1	2483.2	2474.9	2460.8	2450.3	2442.0	2430.3	2417.3	2406.8	2397.3	2390.3
10°	2507.9	2494.9	2482.0	2464.3	2452.6	2437.3	2425.5	2409.1	2395.0	2382.1	2373.8
12.5°	2509.0	2492.6	2480.8	2460.8	2445.5	2429.1	2416.1	2397.3	2380.9	2367.9	2355.0
15°	2498.5	2483.2	2469.0	2447.9	2432.6	2417.3	2402.1	2382.1	2366.8	2351.5	2342.1
17.5°	2474.9	2460.8	2444.4	2424.4	2410.3	2396.2	2379.7	2363.3	2345.6	2329.1	2317.4
20°	2444.4	2429.1	2415.0	2395.0	2383.2	2367.9	2352.7	2335.0	2320.9	2304.5	2291.5
22.5°	2398.5	2384.4	2371.5	2359.7	2340.9	2329.1	2318.6	2298.6	2284.5	2269.2	2255.1
25°	2332.7	2318.6	2308.0	2293.9	2285.6	2272.7	2262.1	2244.5	2231.6	2217.4	2205.7
27.5°	2224.5	2216.3	2210.4	2202.1	2195.1	2189.2	2183.4	2169.2	2159.8	2146.9	2135.2
30°	2062.2	2061.1	2057.5	2054.0	2058.7	2058.7	2058.7	2056.4	2048.2	2038.7	2030.5
32.5°	1854.1	1856.5	1861.2	1864.7	1874.1	1884.7	1894.1	1898.8	1898.8	1893.0	1889.4
35°	1606.1	1609.6	1616.7	1626.1	1637.8	1650.7	1671.9	1676.6	1680.1	1680.1	1675.4
37.5°	1348.6	1347.4	1354.5	1362.7	1369.8	1379.1	1394.4	1398.0	1403.8	1401.5	1396.8
40°	1098.1	1092.3	1089.9	1092.3	1100.5	1097.0	1100.5	1098.1	1098.1	1089.9	1089.9
42.5°	866.5	859.5	854.7	851.3	851.3	843.0	837.1	831.3	827.7	821.8	820.7
45°	667.8	659.6	653.7	651.3	647.9	637.3	630.2	623.1	614.9	612.6	613.7
47.5°	518.5	510.3	507.9	502.0	496.1	490.3	485.6	477.4	476.2	471.5	476.2
50°	399.7	397.4	393.9	391.5	388.0	383.3	378.6	373.9	371.5	371.5	372.7
52.5°	310.4	311.6	308.0	304.5	302.2	302.2	296.3	295.1	295.1	290.4	295.1
55°	237.5	236.3	237.5	235.1	235.1	231.6	231.6	228.1	228.1	224.6	226.9
57.5°	174.0	176.3	174.0	175.2	177.6	174.0	172.8	169.3	171.7	169.3	170.5
60°	135.2	135.2	135.2	134.1	134.1	132.8	132.8	131.7	131.7	129.3	131.7
62.5°	99.9	101.1	101.1	101.1	102.3	101.1	99.9	101.1	99.9	99.9	101.1
65°	65.9	67.0	67.0	65.9	68.2	65.9	67.0	68.2	69.3	68.2	69.3
67.5°	44.7	44.7	45.9	47.0	45.9	47.0	48.2	47.0	48.2	50.6	48.2
70°	32.9	34.1	34.1	32.9	31.7	32.9	31.7	35.3	35.3	35.3	37.6
72.5°	21.1	21.1	20.0	20.0	20.0	20.0	20.0	23.5	21.1	20.0	22.4
75°	11.8	12.9	12.9	9.4	10.6	12.9	9.4	10.6	14.1	11.8	14.1
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	9.4	8.2	8.2	8.2	9.4
80°	5.9	4.7	4.7	3.5	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: P244589

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9
2.5°	2405.5	2405.5	2404.4	2402.1	2397.3	2397.3	2396.2	2392.6	2390.3	2389.1	2389.1
5°	2393.8	2389.1	2384.4	2371.5	2371.5	2369.1	2362.1	2357.3	2355.0	2349.1	2346.8
7.5°	2383.2	2369.1	2360.9	2352.7	2342.1	2337.4	2329.1	2325.6	2317.4	2311.5	2308.0
10°	2357.3	2348.0	2337.4	2324.4	2316.2	2306.8	2297.4	2290.4	2279.8	2273.9	2269.2
12.5°	2339.7	2325.6	2316.2	2302.1	2288.0	2279.8	2266.8	2258.6	2248.0	2236.3	2229.2
15°	2323.3	2308.0	2295.1	2279.8	2264.5	2255.1	2239.8	2230.4	2215.1	2203.4	2195.1
17.5°	2298.6	2285.6	2271.5	2252.7	2238.6	2226.9	2210.4	2198.7	2184.5	2169.2	2161.0
20°	2272.7	2257.4	2243.3	2224.5	2210.4	2196.3	2179.8	2166.9	2150.4	2136.3	2126.9
22.5°	2238.6	2221.0	2209.2	2190.4	2173.9	2158.7	2143.4	2128.1	2112.8	2101.0	2090.5
25°	2189.2	2170.4	2157.5	2142.2	2126.9	2115.2	2096.4	2087.0	2071.7	2061.1	2050.5
27.5°	2118.7	2104.6	2092.8	2077.5	2064.6	2055.2	2041.1	2031.7	2018.7	2009.3	2001.1
30°	2015.2	2003.5	1992.9	1977.6	1968.2	1960.0	1947.0	1938.8	1929.4	1918.8	1916.5
32.5°	1876.5	1867.1	1856.5	1845.9	1838.8	1834.2	1823.6	1818.9	1809.5	1803.6	1797.7
35°	1667.2	1659.0	1653.1	1648.4	1646.0	1647.2	1644.9	1649.6	1651.9	1650.7	1651.9
37.5°	1393.3	1388.5	1390.9	1394.4	1406.2	1421.5	1435.6	1456.7	1470.9	1485.0	1497.9
40°	1087.6	1091.1	1100.5	1121.6	1152.2	1186.3	1218.1	1258.1	1298.0	1326.3	1352.1
42.5°	820.7	831.3	854.7	885.3	931.2	981.7	1031.1	1089.9	1138.1	1185.1	1218.1
45°	617.3	631.4	661.9	704.3	754.8	813.6	875.9	941.8	999.4	1047.6	1084.0
47.5°	480.9	493.8	524.4	569.1	631.4	692.5	757.2	825.4	885.3	932.4	964.1
50°	379.8	396.2	423.3	470.3	532.6	597.3	664.3	731.3	787.8	827.7	856.0
52.5°	298.6	313.9	339.8	389.2	452.7	517.3	579.6	645.5	694.8	733.7	752.5
55°	231.6	245.7	272.8	313.9	373.9	437.4	499.7	556.2	602.0	630.2	647.9
57.5°	176.3	186.9	205.8	246.9	301.0	359.8	412.7	469.1	504.4	524.4	536.1
60°	134.1	142.3	162.3	194.0	243.4	293.9	338.6	381.0	409.2	425.6	437.4
62.5°	101.1	110.5	124.6	151.7	189.3	230.5	268.1	299.8	323.3	333.9	342.1
65°	69.3	76.4	87.0	108.2	139.9	169.3	198.7	222.2	237.5	249.3	254.0
67.5°	51.7	56.4	62.3	78.8	101.1	124.6	144.6	161.1	177.6	182.3	190.5
70°	38.8	42.3	48.2	60.0	72.9	89.3	105.8	115.2	127.0	135.2	137.6
72.5°	24.7	25.8	31.7	38.8	49.4	60.0	70.6	78.8	85.9	90.5	92.9
75°	14.1	21.1	21.1	28.2	35.3	40.0	47.0	52.9	56.4	60.0	60.0
77.5°	9.4	12.9	14.1	17.6	21.1	27.1	32.9	36.4	40.0	41.1	41.1
80°	8.2	9.4	9.4	12.9	15.3	20.0	23.5	24.7	27.1	28.2	30.6
82.5°	3.5	4.7	5.9	9.4	10.6	10.6	14.1	15.3	17.6	18.8	18.8
85°	1.2	2.4	2.4	3.5	5.9	7.1	8.2	9.4	10.6	10.6	11.8
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: P244589

CATALOG NUMBER: LD8B50D010 ER8B509730 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9	2407.9
2.5°	2386.8	2387.9	2383.2	2382.1	2379.7	2380.9	2383.2
5°	2343.3	2344.4	2339.7	2335.0	2335.0	2333.8	2335.0
7.5°	2302.1	2303.3	2296.2	2293.9	2289.2	2290.4	2290.4
10°	2260.9	2260.9	2250.4	2249.2	2245.7	2244.5	2244.5
12.5°	2221.0	2217.4	2209.2	2204.5	2206.9	2199.8	2199.8
15°	2185.7	2179.8	2169.2	2165.7	2159.8	2157.5	2157.5
17.5°	2149.2	2144.6	2135.2	2128.1	2121.0	2119.9	2121.0
20°	2114.0	2109.3	2097.5	2092.8	2087.0	2087.0	2084.6
22.5°	2078.7	2074.0	2063.4	2059.9	2051.7	2051.7	2052.8
25°	2042.2	2038.7	2027.0	2024.6	2023.5	2018.7	2021.1
27.5°	1992.9	1990.5	1981.1	1977.6	1972.9	1971.7	1974.1
30°	1902.3	1898.8	1891.8	1888.3	1880.0	1881.2	1883.5
32.5°	1789.5	1784.8	1775.4	1771.8	1764.8	1762.4	1763.6
35°	1648.4	1644.9	1636.7	1636.7	1629.6	1627.2	1629.6
37.5°	1505.0	1508.5	1505.0	1508.5	1505.0	1503.8	1505.0
40°	1369.8	1382.7	1385.0	1398.0	1393.3	1400.3	1399.1
42.5°	1240.4	1261.5	1269.8	1280.4	1278.1	1282.7	1286.3
45°	1109.9	1127.5	1135.8	1142.8	1144.0	1146.4	1147.5
47.5°	986.4	1000.6	1001.7	1009.9	1008.8	1008.8	1012.3
50°	871.2	880.6	883.0	888.9	884.2	881.8	883.0
52.5°	764.2	773.6	771.3	773.6	767.8	765.4	766.6
55°	654.9	659.6	659.6	659.6	652.6	652.6	652.6
57.5°	543.2	544.4	542.0	543.2	542.0	535.0	533.8
60°	440.9	440.9	439.7	440.9	437.4	433.9	433.9
62.5°	344.5	346.8	351.5	346.8	344.5	346.8	343.3
65°	257.5	262.2	261.0	263.4	262.2	262.2	259.8
67.5°	194.0	195.2	196.3	197.5	197.5	197.5	197.5
70°	142.3	145.8	144.6	144.6	144.6	144.6	151.7
72.5°	95.2	99.9	98.8	101.1	101.1	103.5	101.1
75°	64.7	69.3	67.0	70.6	69.3	67.0	72.9
77.5°	43.5	45.9	47.0	48.2	47.0	45.9	47.0
80°	30.6	32.9	31.7	32.9	32.9	32.9	34.1
82.5°	18.8	22.4	21.1	22.4	21.1	22.4	22.4
85°	12.9	14.1	11.8	14.1	12.9	12.9	15.3
87.5°	8.2	7.1	7.1	8.2	7.1	8.2	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)