

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: P248632

Luminaire Tested: **LD8B60D010 ER8B609727 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248632
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: LD8B60D010 ER8B609727 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: 4343.0 lumens
Efficiency: N/A
Efficacy: 73.0 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

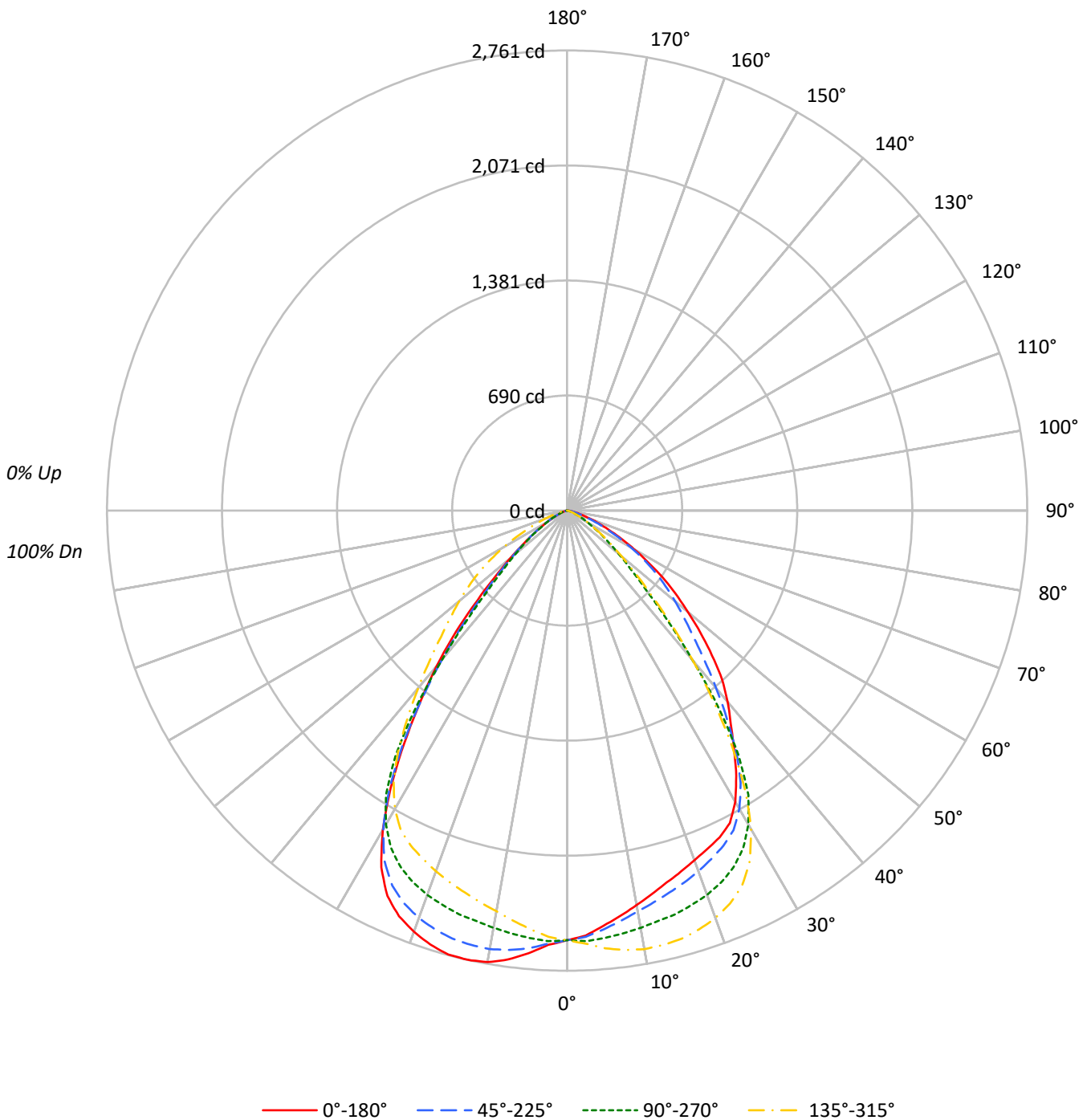
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	245.4	5.7
10°-20°	710.6	16.4
20°-30°	1076.1	24.8
30°-40°	1078.5	24.8
40°-50°	677.2	15.6
50°-60°	360.9	8.3
60°-70°	148.4	3.4
70°-80°	39.2	0.9
80°-90°	6.6	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°	2032.1	46.8
0°-40°	3110.6	71.6
0°-60°	4148.7	95.5
0°-90°	4343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4343.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2578	2578	2578	2578	2578	
5°	2500	2574	2666	2574	2500	236
15°	2310	2508	2757	2508	2310	653
25°	2164	2362	2552	2362	2164	993
35°	1745	1794	1702	1794	1745	1093
45°	1229	657	760	657	1229	945
55°	699	243	257	243	699	623
65°	278	74	68	74	278	289
75°	78	15	13	15	78	88
85°	16	0	1	0	16	18
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°	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
2.5°	2551.9	2549.3	2548.1	2550.6	2551.9	2556.9	2555.7	2558.1	2558.1	2559.4	2561.9
5°	2500.3	2499.0	2500.3	2500.3	2505.3	2510.3	2509.1	2512.9	2515.3	2521.7	2524.2
7.5°	2452.4	2452.4	2451.1	2456.2	2458.7	2466.3	2465.0	2471.3	2475.1	2481.3	2490.2
10°	2403.3	2403.3	2404.6	2408.3	2409.6	2420.9	2420.9	2429.7	2434.8	2441.1	2452.4
12.5°	2355.5	2355.5	2363.0	2360.5	2365.5	2374.3	2378.1	2386.9	2394.5	2407.1	2418.4
15°	2310.1	2310.1	2312.7	2318.9	2322.7	2334.1	2340.3	2350.5	2359.3	2371.9	2388.2
17.5°	2271.1	2269.9	2271.1	2278.7	2286.3	2296.3	2301.3	2313.9	2322.7	2339.1	2354.2
20°	2232.1	2234.6	2234.6	2240.9	2245.9	2258.5	2263.6	2277.4	2287.5	2302.6	2320.2
22.5°	2198.1	2196.9	2196.9	2205.7	2209.5	2220.8	2225.8	2238.4	2249.7	2262.3	2278.7
25°	2164.1	2161.6	2166.7	2167.9	2170.4	2183.0	2186.8	2195.6	2206.9	2218.3	2234.6
27.5°	2113.7	2111.3	2112.5	2117.5	2121.3	2131.4	2133.9	2142.7	2151.5	2161.6	2175.5
30°	2016.8	2014.3	2013.1	2021.9	2025.7	2033.2	2036.9	2052.1	2054.6	2065.9	2076.0
32.5°	1888.4	1887.1	1889.7	1897.2	1901.0	1911.1	1916.1	1924.9	1931.2	1937.5	1947.6
35°	1744.9	1742.4	1744.9	1752.5	1752.5	1761.3	1765.1	1768.8	1767.5	1768.8	1766.3
37.5°	1611.5	1610.2	1611.5	1615.2	1611.5	1615.2	1611.5	1603.9	1590.1	1574.9	1559.8
40°	1498.1	1499.4	1491.9	1496.9	1483.0	1480.5	1466.7	1447.8	1420.1	1389.9	1347.1
42.5°	1377.3	1373.5	1368.5	1371.0	1359.7	1350.8	1328.2	1304.3	1269.0	1218.7	1167.0
45°	1228.7	1227.5	1224.9	1223.7	1216.1	1207.3	1188.4	1160.7	1121.7	1070.1	1008.4
47.5°	1083.9	1080.2	1080.2	1081.4	1072.6	1071.4	1056.2	1032.3	998.3	948.0	883.8
50°	945.4	944.2	946.7	951.8	945.4	942.9	932.9	916.5	886.3	843.5	783.0
52.5°	820.8	819.6	822.1	828.4	825.8	828.4	818.3	805.7	785.6	744.0	691.2
55°	698.7	698.7	698.7	706.2	706.2	706.2	701.2	693.7	674.8	644.6	595.5
57.5°	571.6	572.8	580.4	581.6	580.4	582.9	581.6	574.0	561.5	540.1	502.3
60°	464.6	464.6	468.3	472.1	470.8	472.1	472.1	468.3	455.7	438.1	407.9
62.5°	367.6	371.4	368.8	371.4	376.4	371.4	368.8	366.4	357.6	346.2	321.0
65°	278.2	280.8	280.8	282.0	279.5	280.8	275.7	271.9	266.9	254.3	238.0
67.5°	211.5	211.5	211.5	211.5	210.2	209.0	207.7	204.0	195.2	190.1	172.5
70°	162.4	154.8	154.8	154.8	154.8	156.1	152.3	147.3	144.8	136.0	123.4
72.5°	108.2	110.8	108.2	108.2	105.8	107.0	102.0	99.4	97.0	91.9	84.4
75°	78.0	71.8	74.3	75.6	71.8	74.3	69.2	64.2	64.2	60.4	56.6
77.5°	50.4	49.1	50.4	51.6	50.4	49.1	46.6	44.0	44.0	42.8	39.0
80°	36.5	35.2	35.2	35.2	34.0	35.2	32.7	32.7	30.2	29.0	26.4
82.5°	23.9	23.9	22.6	23.9	22.6	23.9	20.2	20.2	20.2	18.9	16.4
85°	16.4	13.8	13.8	15.1	12.6	15.1	13.8	12.6	11.3	11.3	10.1
87.5°	7.6	8.8	7.6	8.8	7.6	7.6	8.8	7.6	7.6	5.0	5.0
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°	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
2.5°	2565.7	2567.0	2567.0	2572.0	2574.5	2575.8	2575.8	2585.9	2582.1	2584.6	2587.1
5°	2529.2	2536.7	2539.3	2539.3	2553.1	2558.1	2563.2	2574.5	2575.8	2583.3	2592.1
7.5°	2493.9	2502.7	2507.8	2519.1	2527.9	2536.7	2551.9	2559.4	2567.0	2577.1	2588.4
10°	2459.9	2470.1	2480.1	2488.9	2502.7	2514.1	2524.2	2541.8	2550.6	2564.5	2579.5
12.5°	2427.2	2441.1	2449.9	2465.0	2480.1	2490.2	2505.3	2521.7	2535.5	2549.3	2567.0
15°	2398.3	2414.7	2424.7	2441.1	2457.5	2471.3	2487.7	2507.8	2517.9	2534.3	2550.6
17.5°	2366.8	2384.4	2397.0	2412.1	2432.3	2447.4	2461.2	2481.3	2493.9	2511.6	2530.5
20°	2334.1	2351.7	2366.8	2381.9	2402.1	2417.1	2433.5	2453.7	2467.5	2485.1	2500.3
22.5°	2295.1	2311.4	2327.8	2345.4	2365.5	2378.1	2397.0	2414.7	2429.7	2446.1	2461.2
25°	2244.7	2264.8	2277.4	2293.8	2310.1	2324.0	2344.1	2361.8	2374.3	2389.5	2403.3
27.5°	2185.5	2200.6	2210.7	2224.5	2240.9	2253.5	2268.6	2286.3	2298.8	2312.7	2322.7
30°	2084.8	2098.7	2107.5	2117.5	2133.9	2145.3	2157.8	2174.2	2183.0	2193.1	2201.9
32.5°	1952.6	1963.9	1969.0	1976.5	1987.9	1999.2	2009.3	2023.1	2026.9	2033.2	2033.2
35°	1761.3	1763.8	1762.5	1765.1	1770.1	1776.4	1785.2	1794.0	1799.0	1799.0	1795.3
37.5°	1537.2	1522.1	1505.7	1493.1	1489.3	1486.8	1491.9	1495.6	1500.7	1503.2	1496.9
40°	1304.3	1270.3	1233.8	1201.0	1178.4	1168.3	1164.5	1167.0	1167.0	1175.8	1175.8
42.5°	1104.1	1051.2	997.1	948.0	915.2	890.1	878.7	878.7	880.0	886.3	890.1
45°	937.9	871.2	808.2	754.1	708.8	676.0	661.0	657.2	655.9	658.4	667.2
47.5°	810.8	741.5	676.0	609.3	561.5	528.8	514.9	509.8	504.8	509.8	511.1
50°	711.3	639.5	570.3	503.6	453.2	424.2	406.6	399.1	397.8	397.8	400.4
52.5°	620.6	553.9	484.7	416.7	363.8	336.1	319.8	316.0	311.0	316.0	316.0
55°	535.0	468.3	400.4	336.1	292.1	263.1	248.0	243.0	240.4	244.2	244.2
57.5°	441.9	385.2	322.3	264.4	220.3	200.2	188.8	182.6	181.3	183.8	181.3
60°	362.6	314.7	260.6	207.7	173.7	152.3	143.5	141.0	138.5	141.0	141.0
62.5°	287.0	246.8	202.7	162.4	133.4	118.4	108.2	108.2	107.0	107.0	108.2
65°	212.8	181.3	149.8	115.8	93.2	81.8	74.3	74.3	73.0	74.3	73.0
67.5°	154.8	133.4	108.2	84.4	66.7	60.4	55.4	51.6	54.2	51.6	50.4
70°	113.3	95.7	78.0	64.2	51.6	45.3	41.6	40.3	37.8	37.8	37.8
72.5°	75.6	64.2	52.9	41.6	34.0	27.7	26.4	23.9	21.4	22.6	25.2
75°	50.4	42.8	37.8	30.2	22.6	22.6	15.1	15.1	12.6	15.1	11.3
77.5°	35.2	29.0	22.6	18.9	15.1	13.8	10.1	10.1	8.8	8.8	8.8
80°	25.2	21.4	16.4	13.8	10.1	10.1	8.8	7.6	6.3	6.3	7.6
82.5°	15.1	11.3	11.3	10.1	6.3	5.0	3.8	5.0	2.5	2.5	2.5
85°	8.8	7.6	6.3	3.8	2.5	2.5	1.2	0.0	1.2	1.2	0.0
87.5°	5.0	2.5	2.5	1.2	0.0	1.2	1.2	0.0	0.0	0.0	2.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
2.5°	2593.4	2592.1	2594.7	2594.7	2602.2	2600.9	2604.7	2604.7	2602.2	2603.5	2608.5
5°	2602.2	2606.0	2613.5	2619.9	2631.2	2636.2	2642.5	2648.8	2650.1	2653.9	2657.6
7.5°	2602.2	2614.8	2623.6	2634.9	2650.1	2658.9	2672.7	2684.1	2689.1	2695.4	2702.9
10°	2597.2	2609.8	2626.1	2638.7	2657.6	2671.5	2685.3	2702.9	2710.5	2720.5	2730.6
12.5°	2587.1	2600.9	2618.6	2634.9	2656.3	2668.9	2686.6	2702.9	2714.3	2728.1	2739.5
15°	2572.0	2588.4	2604.7	2621.1	2643.7	2658.9	2675.3	2694.1	2705.5	2720.5	2730.6
17.5°	2548.1	2565.7	2580.8	2595.9	2617.3	2634.9	2650.1	2667.7	2679.0	2691.6	2705.5
20°	2519.1	2535.5	2551.9	2564.5	2585.9	2600.9	2617.3	2633.7	2642.5	2645.0	2666.4
22.5°	2482.6	2493.9	2506.5	2526.7	2539.3	2553.1	2568.2	2583.3	2592.1	2606.0	2613.5
25°	2422.2	2433.5	2447.4	2456.2	2471.3	2482.6	2497.7	2514.1	2519.1	2529.2	2536.7
27.5°	2337.9	2344.1	2350.5	2358.0	2366.8	2373.1	2381.9	2389.5	2394.5	2399.5	2404.6
30°	2204.4	2204.4	2204.4	2199.3	2203.1	2206.9	2208.2	2206.9	2206.9	2205.7	2205.7
32.5°	2028.1	2018.1	2006.7	1996.7	1992.9	1987.9	1985.3	1981.6	1975.3	1971.5	1972.7
35°	1790.2	1767.5	1753.7	1741.1	1731.1	1723.5	1719.7	1715.9	1714.7	1709.7	1704.6
37.5°	1493.1	1476.7	1466.7	1459.1	1450.3	1442.7	1444.0	1445.3	1449.0	1446.5	1447.8
40°	1178.4	1174.6	1178.4	1169.6	1167.0	1169.6	1175.8	1184.7	1189.7	1194.7	1203.5
42.5°	896.4	902.6	911.5	911.5	915.2	920.3	927.8	941.7	949.2	958.0	968.1
45°	674.8	682.4	693.7	697.4	700.0	706.2	715.1	726.4	731.4	739.0	747.8
47.5°	520.0	525.0	531.2	537.6	543.8	546.4	555.2	555.2	561.5	566.5	569.0
50°	405.4	410.4	415.4	419.2	421.8	425.5	428.0	431.8	433.1	435.6	436.8
52.5°	317.2	323.6	323.6	326.0	329.8	333.6	332.4	333.6	334.9	334.9	338.6
55°	248.0	248.0	251.8	251.8	254.3	253.0	254.3	254.3	254.3	254.3	255.6
57.5°	185.0	186.3	190.1	187.6	186.3	188.8	186.3	188.8	187.6	190.1	186.3
60°	142.2	142.2	143.5	143.5	144.8	144.8	144.8	143.5	143.5	142.2	142.2
62.5°	107.0	108.2	109.5	108.2	108.2	108.2	107.0	107.0	105.8	104.5	104.5
65°	71.8	70.5	73.0	70.5	71.8	71.8	70.5	71.8	68.0	69.2	68.0
67.5°	51.6	50.4	49.1	50.4	49.1	47.8	47.8	49.1	50.4	46.6	46.6
70°	34.0	35.2	34.0	35.2	36.5	36.5	35.2	34.0	35.2	32.7	34.0
72.5°	21.4	21.4	21.4	21.4	21.4	22.6	22.6	22.6	20.2	20.2	18.9
75°	10.1	13.8	11.3	10.1	13.8	13.8	12.6	12.6	11.3	11.3	11.3
77.5°	10.1	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	7.6	6.3
80°	5.0	5.0	5.0	3.8	5.0	5.0	6.3	5.0	5.0	3.8	6.3
82.5°	2.5	2.5	2.5	0.0	1.2	2.5	2.5	1.2	2.5	2.5	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: P248632

CATALOG NUMBER: LD8B60D010 ER8B609727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
2.5°	2607.3	2606.0	2607.3	2608.5	2607.3	2606.0	2607.3	2608.5	2603.5	2602.2	2604.7
5°	2662.7	2662.7	2665.2	2666.4	2665.2	2662.7	2662.7	2657.6	2653.9	2650.1	2648.8
7.5°	2710.5	2713.0	2715.5	2716.8	2715.5	2713.0	2710.5	2702.9	2695.4	2689.1	2684.1
10°	2739.5	2743.2	2748.3	2750.8	2748.3	2743.2	2739.5	2730.6	2720.5	2710.5	2702.9
12.5°	2752.1	2755.8	2762.1	2760.9	2762.1	2755.8	2752.1	2739.5	2728.1	2714.3	2702.9
15°	2743.2	2748.3	2754.5	2757.1	2754.5	2748.3	2743.2	2730.6	2720.5	2705.5	2694.1
17.5°	2715.5	2723.1	2726.9	2730.6	2726.9	2723.1	2715.5	2705.5	2691.6	2679.0	2667.7
20°	2677.7	2682.8	2687.8	2689.1	2687.8	2682.8	2677.7	2666.4	2645.0	2642.5	2633.7
22.5°	2623.6	2627.4	2638.7	2634.9	2638.7	2627.4	2623.6	2613.5	2606.0	2592.1	2583.3
25°	2545.6	2549.3	2550.6	2551.9	2550.6	2549.3	2545.6	2536.7	2529.2	2519.1	2514.1
27.5°	2410.9	2410.9	2413.4	2414.7	2413.4	2410.9	2410.9	2404.6	2399.5	2394.5	2389.5
30°	2206.9	2206.9	2206.9	2213.2	2206.9	2206.9	2206.9	2205.7	2205.7	2206.9	2206.9
32.5°	1971.5	1969.0	1966.5	1969.0	1966.5	1969.0	1971.5	1972.7	1971.5	1975.3	1981.6
35°	1704.6	1703.3	1707.1	1702.1	1707.1	1703.3	1704.6	1704.6	1709.7	1714.7	1715.9
37.5°	1449.0	1446.5	1451.6	1446.5	1451.6	1446.5	1449.0	1447.8	1446.5	1449.0	1445.3
40°	1206.1	1208.6	1208.6	1218.7	1208.6	1208.6	1206.1	1203.5	1194.7	1189.7	1184.7
42.5°	973.2	980.7	978.2	985.8	978.2	980.7	973.2	968.1	958.0	949.2	941.7
45°	752.8	757.9	757.9	760.4	757.9	757.9	752.8	747.8	739.0	731.4	726.4
47.5°	577.8	577.8	577.8	579.1	577.8	577.8	577.8	569.0	566.5	561.5	555.2
50°	439.4	440.6	441.9	443.2	441.9	440.6	439.4	436.8	435.6	433.1	431.8
52.5°	337.4	338.6	336.1	338.6	336.1	338.6	337.4	338.6	334.9	334.9	333.6
55°	255.6	254.3	255.6	256.8	255.6	254.3	255.6	255.6	254.3	254.3	254.3
57.5°	187.6	185.0	185.0	185.0	185.0	185.0	187.6	186.3	190.1	187.6	188.8
60°	139.8	141.0	141.0	142.2	141.0	141.0	139.8	142.2	142.2	143.5	143.5
62.5°	103.2	107.0	104.5	107.0	104.5	107.0	103.2	104.5	104.5	105.8	107.0
65°	66.7	66.7	66.7	68.0	66.7	66.7	66.7	68.0	69.2	68.0	71.8
67.5°	45.3	46.6	49.1	47.8	49.1	46.6	45.3	46.6	46.6	50.4	49.1
70°	36.5	32.7	32.7	36.5	32.7	32.7	36.5	34.0	32.7	35.2	34.0
72.5°	21.4	18.9	21.4	21.4	21.4	18.9	21.4	18.9	20.2	20.2	22.6
75°	11.3	10.1	8.8	12.6	8.8	10.1	11.3	11.3	11.3	11.3	12.6
77.5°	7.6	6.3	8.8	8.8	8.8	6.3	7.6	6.3	7.6	6.3	7.6
80°	3.8	5.0	3.8	6.3	3.8	5.0	3.8	6.3	3.8	5.0	5.0
82.5°	1.2	2.5	2.5	2.5	2.5	2.5	1.2	1.2	2.5	2.5	1.2
85°	0.0	2.5	1.2	1.2	1.2	2.5	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: P248632

CATALOG NUMBER: LD8B60D010 ER8B609727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
2.5°	2604.7	2600.9	2602.2	2594.7	2594.7	2592.1	2593.4	2587.1	2584.6	2582.1	2585.9
5°	2642.5	2636.2	2631.2	2619.9	2613.5	2606.0	2602.2	2592.1	2583.3	2575.8	2574.5
7.5°	2672.7	2658.9	2650.1	2634.9	2623.6	2614.8	2602.2	2588.4	2577.1	2567.0	2559.4
10°	2685.3	2671.5	2657.6	2638.7	2626.1	2609.8	2597.2	2579.5	2564.5	2550.6	2541.8
12.5°	2686.6	2668.9	2656.3	2634.9	2618.6	2600.9	2587.1	2567.0	2549.3	2535.5	2521.7
15°	2675.3	2658.9	2643.7	2621.1	2604.7	2588.4	2572.0	2550.6	2534.3	2517.9	2507.8
17.5°	2650.1	2634.9	2617.3	2595.9	2580.8	2565.7	2548.1	2530.5	2511.6	2493.9	2481.3
20°	2617.3	2600.9	2585.9	2564.5	2551.9	2535.5	2519.1	2500.3	2485.1	2467.5	2453.7
22.5°	2568.2	2553.1	2539.3	2526.7	2506.5	2493.9	2482.6	2461.2	2446.1	2429.7	2414.7
25°	2497.7	2482.6	2471.3	2456.2	2447.4	2433.5	2422.2	2403.3	2389.5	2374.3	2361.8
27.5°	2381.9	2373.1	2366.8	2358.0	2350.5	2344.1	2337.9	2322.7	2312.7	2298.8	2286.3
30°	2208.2	2206.9	2203.1	2199.3	2204.4	2204.4	2204.4	2201.9	2193.1	2183.0	2174.2
32.5°	1985.3	1987.9	1992.9	1996.7	2006.7	2018.1	2028.1	2033.2	2033.2	2026.9	2023.1
35°	1719.7	1723.5	1731.1	1741.1	1753.7	1767.5	1790.2	1795.3	1799.0	1799.0	1794.0
37.5°	1444.0	1442.7	1450.3	1459.1	1466.7	1476.7	1493.1	1496.9	1503.2	1500.7	1495.6
40°	1175.8	1169.6	1167.0	1169.6	1178.4	1174.6	1178.4	1175.8	1175.8	1167.0	1167.0
42.5°	927.8	920.3	915.2	911.5	911.5	902.6	896.4	890.1	886.3	880.0	878.7
45°	715.1	706.2	700.0	697.4	693.7	682.4	674.8	667.2	658.4	655.9	657.2
47.5°	555.2	546.4	543.8	537.6	531.2	525.0	520.0	511.1	509.8	504.8	509.8
50°	428.0	425.5	421.8	419.2	415.4	410.4	405.4	400.4	397.8	397.8	399.1
52.5°	332.4	333.6	329.8	326.0	323.6	323.6	317.2	316.0	316.0	311.0	316.0
55°	254.3	253.0	254.3	251.8	251.8	248.0	248.0	244.2	244.2	240.4	243.0
57.5°	186.3	188.8	186.3	187.6	190.1	186.3	185.0	181.3	183.8	181.3	182.6
60°	144.8	144.8	144.8	143.5	143.5	142.2	142.2	141.0	141.0	138.5	141.0
62.5°	107.0	108.2	108.2	108.2	109.5	108.2	107.0	108.2	107.0	107.0	108.2
65°	70.5	71.8	71.8	70.5	73.0	70.5	71.8	73.0	74.3	73.0	74.3
67.5°	47.8	47.8	49.1	50.4	49.1	50.4	51.6	50.4	51.6	54.2	51.6
70°	35.2	36.5	36.5	35.2	34.0	35.2	34.0	37.8	37.8	37.8	40.3
72.5°	22.6	22.6	21.4	21.4	21.4	21.4	21.4	25.2	22.6	21.4	23.9
75°	12.6	13.8	13.8	10.1	11.3	13.8	10.1	11.3	15.1	12.6	15.1
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	10.1	8.8	8.8	8.8	10.1
80°	6.3	5.0	5.0	3.8	5.0	5.0	5.0	7.6	6.3	6.3	7.6
82.5°	2.5	2.5	1.2	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0
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	2.5	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: P248632

CATALOG NUMBER: LD8B60D010 ER8B609727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
2.5°	2575.8	2575.8	2574.5	2572.0	2567.0	2567.0	2565.7	2561.9	2559.4	2558.1	2558.1
5°	2563.2	2558.1	2553.1	2539.3	2539.3	2536.7	2529.2	2524.2	2521.7	2515.3	2512.9
7.5°	2551.9	2536.7	2527.9	2519.1	2507.8	2502.7	2493.9	2490.2	2481.3	2475.1	2471.3
10°	2524.2	2514.1	2502.7	2488.9	2480.1	2470.1	2459.9	2452.4	2441.1	2434.8	2429.7
12.5°	2505.3	2490.2	2480.1	2465.0	2449.9	2441.1	2427.2	2418.4	2407.1	2394.5	2386.9
15°	2487.7	2471.3	2457.5	2441.1	2424.7	2414.7	2398.3	2388.2	2371.9	2359.3	2350.5
17.5°	2461.2	2447.4	2432.3	2412.1	2397.0	2384.4	2366.8	2354.2	2339.1	2322.7	2313.9
20°	2433.5	2417.1	2402.1	2381.9	2366.8	2351.7	2334.1	2320.2	2302.6	2287.5	2277.4
22.5°	2397.0	2378.1	2365.5	2345.4	2327.8	2311.4	2295.1	2278.7	2262.3	2249.7	2238.4
25°	2344.1	2324.0	2310.1	2293.8	2277.4	2264.8	2244.7	2234.6	2218.3	2206.9	2195.6
27.5°	2268.6	2253.5	2240.9	2224.5	2210.7	2200.6	2185.5	2175.5	2161.6	2151.5	2142.7
30°	2157.8	2145.3	2133.9	2117.5	2107.5	2098.7	2084.8	2076.0	2065.9	2054.6	2052.1
32.5°	2009.3	1999.2	1987.9	1976.5	1969.0	1963.9	1952.6	1947.6	1937.5	1931.2	1924.9
35°	1785.2	1776.4	1770.1	1765.1	1762.5	1763.8	1761.3	1766.3	1768.8	1767.5	1768.8
37.5°	1491.9	1486.8	1489.3	1493.1	1505.7	1522.1	1537.2	1559.8	1574.9	1590.1	1603.9
40°	1164.5	1168.3	1178.4	1201.0	1233.8	1270.3	1304.3	1347.1	1389.9	1420.1	1447.8
42.5°	878.7	890.1	915.2	948.0	997.1	1051.2	1104.1	1167.0	1218.7	1269.0	1304.3
45°	661.0	676.0	708.8	754.1	808.2	871.2	937.9	1008.4	1070.1	1121.7	1160.7
47.5°	514.9	528.8	561.5	609.3	676.0	741.5	810.8	883.8	948.0	998.3	1032.3
50°	406.6	424.2	453.2	503.6	570.3	639.5	711.3	783.0	843.5	886.3	916.5
52.5°	319.8	336.1	363.8	416.7	484.7	553.9	620.6	691.2	744.0	785.6	805.7
55°	248.0	263.1	292.1	336.1	400.4	468.3	535.0	595.5	644.6	674.8	693.7
57.5°	188.8	200.2	220.3	264.4	322.3	385.2	441.9	502.3	540.1	561.5	574.0
60°	143.5	152.3	173.7	207.7	260.6	314.7	362.6	407.9	438.1	455.7	468.3
62.5°	108.2	118.4	133.4	162.4	202.7	246.8	287.0	321.0	346.2	357.6	366.4
65°	74.3	81.8	93.2	115.8	149.8	181.3	212.8	238.0	254.3	266.9	271.9
67.5°	55.4	60.4	66.7	84.4	108.2	133.4	154.8	172.5	190.1	195.2	204.0
70°	41.6	45.3	51.6	64.2	78.0	95.7	113.3	123.4	136.0	144.8	147.3
72.5°	26.4	27.7	34.0	41.6	52.9	64.2	75.6	84.4	91.9	97.0	99.4
75°	15.1	22.6	22.6	30.2	37.8	42.8	50.4	56.6	60.4	64.2	64.2
77.5°	10.1	13.8	15.1	18.9	22.6	29.0	35.2	39.0	42.8	44.0	44.0
80°	8.8	10.1	10.1	13.8	16.4	21.4	25.2	26.4	29.0	30.2	32.7
82.5°	3.8	5.0	6.3	10.1	11.3	11.3	15.1	16.4	18.9	20.2	20.2
85°	1.2	2.5	2.5	3.8	6.3	7.6	8.8	10.1	11.3	11.3	12.6
87.5°	1.2	1.2	0.0	1.2	2.5	2.5	5.0	5.0	5.0	7.6	7.6
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: P248632

CATALOG NUMBER: LD8B60D010 ER8B609727 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
2.5°	2555.7	2556.9	2551.9	2550.6	2548.1	2549.3	2551.9
5°	2509.1	2510.3	2505.3	2500.3	2500.3	2499.0	2500.3
7.5°	2465.0	2466.3	2458.7	2456.2	2451.1	2452.4	2452.4
10°	2420.9	2420.9	2409.6	2408.3	2404.6	2403.3	2403.3
12.5°	2378.1	2374.3	2365.5	2360.5	2363.0	2355.5	2355.5
15°	2340.3	2334.1	2322.7	2318.9	2312.7	2310.1	2310.1
17.5°	2301.3	2296.3	2286.3	2278.7	2271.1	2269.9	2271.1
20°	2263.6	2258.5	2245.9	2240.9	2234.6	2234.6	2232.1
22.5°	2225.8	2220.8	2209.5	2205.7	2196.9	2196.9	2198.1
25°	2186.8	2183.0	2170.4	2167.9	2166.7	2161.6	2164.1
27.5°	2133.9	2131.4	2121.3	2117.5	2112.5	2111.3	2113.7
30°	2036.9	2033.2	2025.7	2021.9	2013.1	2014.3	2016.8
32.5°	1916.1	1911.1	1901.0	1897.2	1889.7	1887.1	1888.4
35°	1765.1	1761.3	1752.5	1752.5	1744.9	1742.4	1744.9
37.5°	1611.5	1615.2	1611.5	1615.2	1611.5	1610.2	1611.5
40°	1466.7	1480.5	1483.0	1496.9	1491.9	1499.4	1498.1
42.5°	1328.2	1350.8	1359.7	1371.0	1368.5	1373.5	1377.3
45°	1188.4	1207.3	1216.1	1223.7	1224.9	1227.5	1228.7
47.5°	1056.2	1071.4	1072.6	1081.4	1080.2	1080.2	1083.9
50°	932.9	942.9	945.4	951.8	946.7	944.2	945.4
52.5°	818.3	828.4	825.8	828.4	822.1	819.6	820.8
55°	701.2	706.2	706.2	706.2	698.7	698.7	698.7
57.5°	581.6	582.9	580.4	581.6	580.4	572.8	571.6
60°	472.1	472.1	470.8	472.1	468.3	464.6	464.6
62.5°	368.8	371.4	376.4	371.4	368.8	371.4	367.6
65°	275.7	280.8	279.5	282.0	280.8	280.8	278.2
67.5°	207.7	209.0	210.2	211.5	211.5	211.5	211.5
70°	152.3	156.1	154.8	154.8	154.8	154.8	162.4
72.5°	102.0	107.0	105.8	108.2	108.2	110.8	108.2
75°	69.2	74.3	71.8	75.6	74.3	71.8	78.0
77.5°	46.6	49.1	50.4	51.6	50.4	49.1	50.4
80°	32.7	35.2	34.0	35.2	35.2	35.2	36.5
82.5°	20.2	23.9	22.6	23.9	22.6	23.9	23.9
85°	13.8	15.1	12.6	15.1	13.8	13.8	16.4
87.5°	8.8	7.6	7.6	8.8	7.6	8.8	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)