

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P593853

Luminaire Tested: **HC855D010-HM82555950-81WWBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC855D010-HM82555950-81WWBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4827.4 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

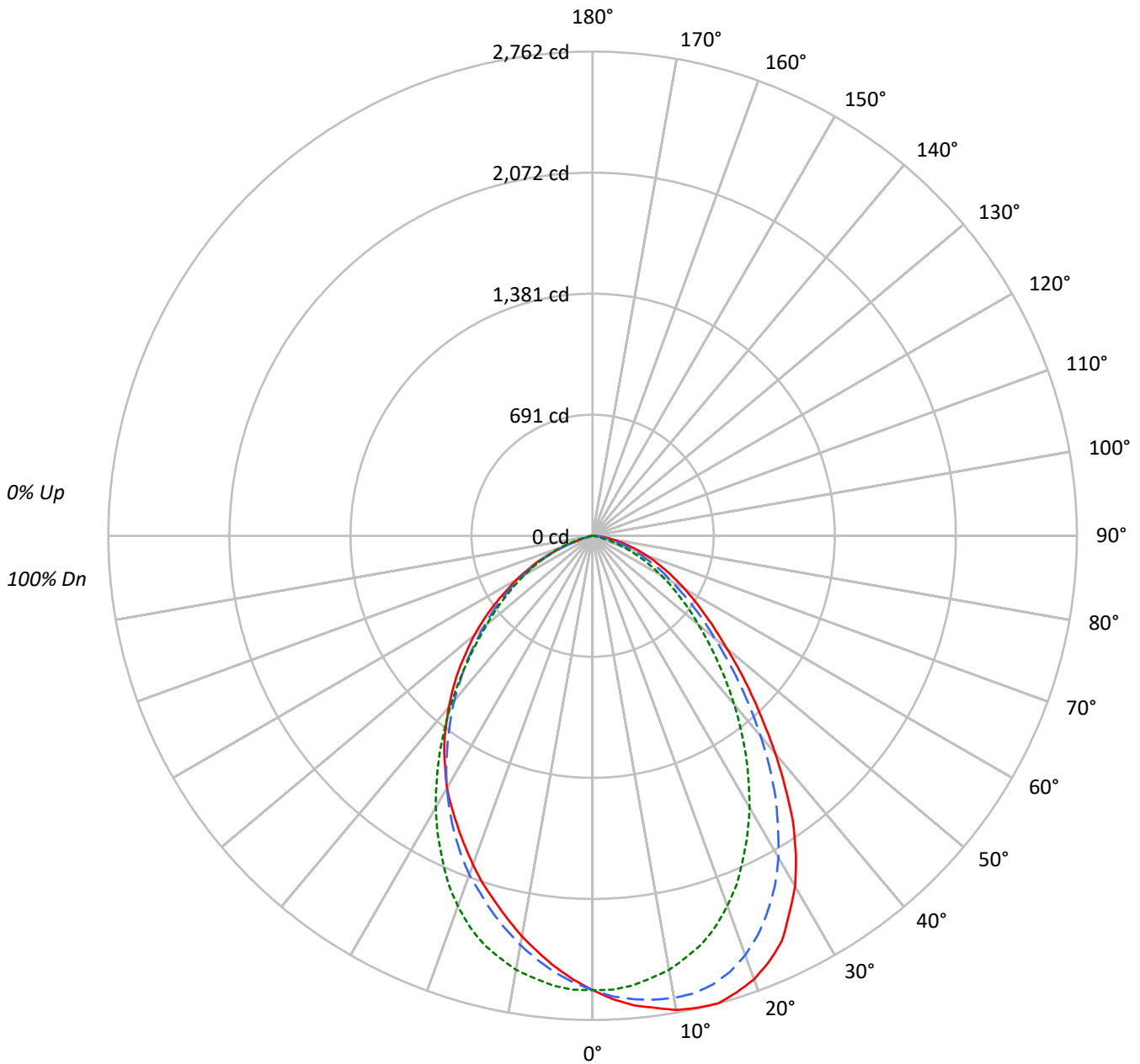
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	63	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	58	53	49	47																			
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39																			
9	62	50	43	37	61	50	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	79915	79915	79915
5°	83220	79744	76382
10°	86002	78725	72656
15°	88178	76921	68886
20°	88349	73729	65470
25°	86860	69066	62080
30°	82209	63729	59175
35°	74957	57310	55559
40°	65179	50523	51308
45°	55920	43753	46967
50°	47762	37726	42187
55°	41864	32488	36655
60°	37269	27710	30818
65°	33068	22612	24596
70°	29347	16770	13966
75°	24460	8769	4146
80°	19267	2752	693
85°	13728	1380	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.2	5.1
10°-20°	684.5	14.2
20°-30°	968.8	20.1
30°-40°	1013.5	21.0
40°-50°	845.4	17.5
50°-60°	599.5	12.4
60°-70°	345.2	7.2
70°-80°	111.1	2.3
80°-90°	15.3	0.3
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°	1897.4	39.3
0°-40°	2910.9	60.3
0°-60°	4355.8	90.2
0°-90°	4827.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4827.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2592	2592	2592	2592	2592	
5°	2688	2654	2576	2499	2468	258
15°	2762	2650	2410	2220	2158	777
25°	2553	2363	2030	1867	1825	1165
35°	1991	1817	1522	1441	1476	1234
45°	1282	1178	1003	1015	1077	994
55°	779	697	604	635	682	703
65°	453	380	310	310	337	453
75°	205	151	74	35	35	223
85°	39	19	4	0	0	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6
2.5°	2645.9	2642.0	2638.2	2642.0	2638.2	2642.0	2638.2	2638.2	2634.3	2630.3	2630.3
5°	2688.5	2684.6	2684.6	2684.6	2680.7	2676.8	2676.8	2673.0	2665.2	2661.4	2653.6
7.5°	2715.6	2719.5	2719.5	2719.5	2711.8	2711.8	2703.9	2696.2	2688.5	2680.7	2669.1
10°	2746.6	2746.6	2742.7	2738.8	2731.1	2727.2	2723.4	2715.6	2703.9	2688.5	2676.8
12.5°	2758.2	2758.2	2754.3	2746.6	2742.7	2738.8	2735.0	2723.4	2707.9	2688.5	2673.0
15°	2762.1	2754.3	2750.4	2746.6	2738.8	2727.2	2727.2	2711.8	2692.3	2669.1	2649.8
17.5°	2731.1	2735.0	2727.2	2719.5	2707.9	2700.1	2688.5	2676.8	2653.6	2626.5	2607.1
20°	2692.3	2688.5	2684.6	2673.0	2657.5	2653.6	2642.0	2622.6	2603.2	2572.3	2545.1
22.5°	2630.3	2626.5	2618.7	2611.0	2595.5	2587.8	2576.2	2552.9	2525.8	2494.8	2463.8
25°	2552.9	2545.1	2533.5	2518.0	2506.4	2498.7	2483.1	2459.9	2429.0	2394.0	2363.1
27.5°	2429.0	2440.6	2432.8	2409.5	2397.9	2382.4	2378.6	2347.6	2320.4	2285.6	2250.7
30°	2308.8	2308.8	2297.2	2285.6	2266.2	2254.6	2239.1	2215.9	2188.7	2146.2	2119.0
32.5°	2157.8	2153.9	2138.4	2134.6	2119.0	2095.8	2091.9	2061.0	2033.8	2002.8	1967.9
35°	1991.2	1983.4	1967.9	1956.3	1948.6	1937.0	1925.4	1898.2	1871.1	1840.2	1816.8
37.5°	1801.4	1801.4	1797.5	1778.2	1770.4	1762.6	1751.0	1723.9	1708.4	1677.4	1654.2
40°	1619.2	1615.4	1603.8	1599.9	1592.2	1580.6	1572.8	1557.4	1534.0	1510.8	1487.6
42.5°	1441.1	1445.0	1429.5	1433.4	1417.9	1410.2	1406.2	1383.0	1371.4	1348.2	1328.7
45°	1282.3	1278.4	1270.7	1266.8	1259.0	1251.2	1243.5	1231.9	1212.6	1189.2	1177.6
47.5°	1135.1	1123.5	1123.5	1119.6	1115.6	1100.2	1096.3	1084.7	1073.1	1049.9	1034.3
50°	995.6	995.6	995.6	991.7	980.1	976.3	968.4	956.8	945.2	929.7	906.5
52.5°	883.2	883.2	883.2	879.4	863.9	860.0	856.1	840.7	825.1	813.5	798.0
55°	778.7	782.5	778.7	770.9	759.3	759.3	747.6	739.9	724.4	712.8	697.3
57.5°	689.6	689.6	681.8	677.9	670.1	666.3	658.5	650.8	631.5	619.9	600.4
60°	604.3	600.4	600.4	592.7	584.9	577.2	573.3	561.7	554.0	534.5	519.1
62.5°	526.8	526.8	519.1	519.1	503.6	503.6	499.7	488.1	476.5	457.1	449.3
65°	453.2	453.2	449.3	445.5	433.9	430.0	426.1	414.5	402.9	391.2	379.6
67.5°	387.3	387.3	379.6	375.7	368.0	364.1	356.4	348.7	337.1	325.5	313.7
70°	325.5	321.5	317.6	313.7	306.0	302.1	294.4	286.7	275.1	267.3	255.7
72.5°	263.5	263.5	259.6	251.7	247.9	244.0	240.1	232.4	220.8	209.2	201.5
75°	205.3	205.3	205.3	197.6	189.9	186.0	186.0	178.1	170.4	158.8	151.1
77.5°	158.8	154.9	151.1	151.1	143.3	139.5	135.6	131.7	120.1	116.3	108.5
80°	108.5	112.4	108.5	104.5	100.7	96.8	96.8	89.1	85.2	77.5	69.7
82.5°	73.6	69.7	69.7	65.9	65.9	62.0	62.0	54.3	50.4	46.5	42.7
85°	38.8	38.8	34.8	34.8	34.8	30.9	30.9	27.1	27.1	23.2	19.3
87.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	7.7	7.7	7.7
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6
2.5°	2626.5	2618.7	2614.8	2614.8	2611.0	2607.1	2603.2	2599.4	2591.6	2591.6	2583.9
5°	2645.9	2638.2	2634.3	2622.6	2614.8	2614.8	2599.4	2595.5	2583.9	2576.2	2568.4
7.5°	2661.4	2645.9	2634.3	2622.6	2614.8	2607.1	2591.6	2576.2	2560.6	2545.1	2537.4
10°	2661.4	2645.9	2626.5	2607.1	2599.4	2591.6	2572.3	2549.0	2529.6	2514.2	2494.8
12.5°	2653.6	2630.3	2607.1	2591.6	2576.2	2564.6	2541.2	2518.0	2494.8	2463.8	2448.3
15°	2630.3	2599.4	2576.2	2549.0	2537.4	2518.0	2498.7	2463.8	2436.7	2409.5	2390.2
17.5°	2583.9	2545.1	2518.0	2491.0	2471.5	2459.9	2429.0	2397.9	2367.0	2335.9	2312.7
20°	2514.2	2479.2	2448.3	2413.4	2397.9	2382.4	2343.6	2312.7	2281.8	2246.8	2223.6
22.5°	2429.0	2394.0	2351.5	2324.3	2301.1	2281.8	2246.8	2212.0	2181.0	2150.0	2119.0
25°	2324.3	2289.5	2250.7	2208.2	2192.6	2173.2	2134.6	2099.6	2064.8	2029.9	2002.8
27.5°	2212.0	2165.5	2134.6	2088.0	2072.6	2053.1	2010.6	1971.8	1940.8	1913.8	1882.7
30°	2076.4	2041.5	1999.0	1956.3	1940.8	1921.5	1886.6	1851.8	1820.7	1789.8	1758.7
32.5°	1929.2	1894.3	1851.8	1820.7	1797.5	1782.0	1747.1	1716.2	1685.1	1654.2	1627.1
35°	1774.3	1735.5	1704.6	1673.5	1654.2	1634.8	1599.9	1572.8	1549.5	1522.4	1495.4
37.5°	1615.4	1588.3	1557.4	1522.4	1503.1	1487.6	1460.4	1429.5	1410.2	1386.8	1367.5
40°	1460.4	1429.5	1402.3	1371.4	1355.9	1344.3	1317.1	1293.9	1274.6	1255.1	1243.5
42.5°	1301.6	1274.6	1247.4	1228.0	1216.4	1204.8	1185.4	1158.3	1146.7	1127.3	1115.6
45°	1154.4	1131.2	1111.8	1084.7	1077.0	1069.2	1045.9	1026.6	1015.0	1003.3	995.6
47.5°	1015.0	999.5	976.3	960.7	949.1	941.4	925.9	910.4	898.7	891.0	883.2
50°	894.8	875.5	860.0	844.5	836.8	825.1	809.6	801.9	794.1	786.4	786.4
52.5°	782.5	763.2	747.6	736.0	728.3	720.5	708.9	705.1	697.3	697.3	693.5
55°	677.9	666.3	650.8	635.3	631.5	627.6	619.9	612.0	608.2	604.3	608.2
57.5°	588.8	577.2	561.7	550.1	546.3	542.4	538.4	530.7	526.8	526.8	526.8
60°	507.5	495.9	484.3	472.7	472.7	464.8	460.9	457.1	453.2	449.3	449.3
62.5°	433.9	422.3	410.7	402.9	399.1	395.1	387.3	383.5	379.6	379.6	375.7
65°	368.0	352.5	348.7	337.1	333.2	329.3	325.5	317.6	313.7	309.9	306.0
67.5°	302.1	294.4	282.8	275.1	271.2	267.3	263.5	255.7	251.7	247.9	240.1
70°	244.0	236.3	228.5	220.8	216.9	213.1	205.3	197.6	193.7	186.0	174.3
72.5°	189.9	182.1	174.3	166.5	162.7	158.8	151.1	143.3	135.6	127.9	120.1
75°	143.3	135.6	124.0	116.3	112.4	112.4	100.7	92.9	85.2	73.6	65.9
77.5°	100.7	89.1	85.2	77.5	73.6	65.9	58.1	50.4	42.7	38.8	30.9
80°	65.9	58.1	50.4	46.5	42.7	38.8	34.8	27.1	19.3	15.5	11.6
82.5°	38.8	34.8	30.9	27.1	23.2	19.3	15.5	15.5	11.6	7.7	3.9
85°	19.3	15.5	11.6	11.6	7.7	7.7	7.7	3.9	3.9	3.9	3.9
87.5°	7.7	3.9	3.9	3.9	3.9	3.9	3.9	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6
2.5°	2580.0	2576.2	2572.3	2568.4	2568.4	2560.6	2560.6	2556.7	2549.0	2545.1	2545.1
5°	2556.7	2545.1	2537.4	2533.5	2529.6	2518.0	2514.2	2506.4	2498.7	2491.0	2487.0
7.5°	2521.9	2502.6	2494.8	2491.0	2479.2	2467.6	2459.9	2448.3	2436.7	2425.1	2421.2
10°	2479.2	2459.9	2440.6	2432.8	2421.2	2413.4	2397.9	2382.4	2370.8	2359.2	2347.6
12.5°	2425.1	2401.8	2382.4	2374.7	2363.1	2347.6	2324.3	2316.6	2297.2	2289.5	2274.0
15°	2363.1	2335.9	2316.6	2305.0	2293.4	2270.0	2254.6	2239.1	2219.8	2212.0	2196.4
17.5°	2285.6	2254.6	2235.2	2223.6	2215.9	2196.4	2173.2	2153.9	2134.6	2126.7	2115.1
20°	2192.6	2173.2	2146.2	2134.6	2126.7	2103.5	2080.3	2072.6	2057.1	2041.5	2029.9
22.5°	2088.0	2068.7	2041.5	2029.9	2026.0	2006.7	1987.4	1975.6	1964.0	1952.4	1940.8
25°	1979.5	1956.3	1933.1	1925.4	1917.6	1902.0	1886.6	1878.8	1867.2	1859.5	1851.8
27.5°	1863.4	1840.2	1820.7	1809.1	1801.4	1789.8	1782.0	1774.3	1766.4	1758.7	1754.8
30°	1739.4	1716.2	1700.7	1692.8	1685.1	1681.2	1669.6	1665.8	1661.9	1654.2	1658.0
32.5°	1615.4	1596.0	1580.6	1569.0	1569.0	1561.2	1557.4	1557.4	1553.5	1553.5	1553.5
35°	1479.9	1468.2	1456.6	1452.7	1448.8	1445.0	1441.1	1445.0	1441.1	1445.0	1448.8
37.5°	1355.9	1344.3	1336.5	1332.6	1328.7	1332.6	1328.7	1328.7	1332.6	1340.4	1344.3
40°	1228.0	1220.3	1212.6	1216.4	1212.6	1212.6	1212.6	1224.2	1228.0	1231.9	1235.8
42.5°	1107.9	1100.2	1096.3	1096.3	1100.2	1096.3	1104.0	1107.9	1115.6	1127.3	1135.1
45°	991.7	987.9	987.9	991.7	987.9	995.6	995.6	1003.3	1015.0	1022.7	1030.4
47.5°	883.2	883.2	883.2	887.1	887.1	891.0	898.7	902.7	910.4	918.1	925.9
50°	782.5	786.4	790.3	790.3	790.3	798.0	805.8	809.6	813.5	817.4	829.0
52.5°	693.5	697.3	697.3	701.2	705.1	708.9	712.8	720.5	724.4	732.1	736.0
55°	608.2	608.2	616.0	619.9	619.9	619.9	627.6	627.6	635.3	639.2	646.9
57.5°	526.8	530.7	530.7	534.5	534.5	538.4	542.4	546.3	550.1	554.0	557.9
60°	449.3	449.3	449.3	453.2	457.1	460.9	457.1	464.8	464.8	472.7	476.5
62.5°	375.7	379.6	379.6	379.6	379.6	379.6	379.6	383.5	387.3	391.2	395.1
65°	306.0	306.0	306.0	302.1	306.0	302.1	306.0	309.9	309.9	313.7	317.6
67.5°	236.3	236.3	228.5	228.5	232.4	232.4	232.4	232.4	228.5	236.3	236.3
70°	170.4	166.5	162.7	158.8	158.8	154.9	154.9	151.1	151.1	151.1	151.1
72.5°	112.4	104.5	96.8	92.9	89.1	89.1	81.3	77.5	81.3	81.3	81.3
75°	58.1	50.4	46.5	42.7	38.8	38.8	34.8	34.8	34.8	34.8	34.8
77.5°	23.2	19.3	15.5	15.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6
80°	7.7	7.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	3.9	0.0	0.0	3.9	0.0	3.9	3.9	3.9	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: P593853

CATALOG NUMBER: HC855D010-HM82555950-81WWBB

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6
2.5°	2541.2	2541.2	2537.4	2541.2	2533.5	2537.4	2533.5	2533.5
5°	2483.1	2475.4	2475.4	2475.4	2471.5	2471.5	2467.6	2467.6
7.5°	2413.4	2409.5	2405.6	2401.8	2397.9	2394.0	2394.0	2394.0
10°	2343.6	2335.9	2335.9	2332.0	2324.3	2320.4	2320.4	2320.4
12.5°	2262.3	2258.4	2254.6	2254.6	2239.1	2243.0	2239.1	2239.1
15°	2184.8	2181.0	2181.0	2169.4	2161.6	2161.6	2161.6	2157.8
17.5°	2103.5	2099.6	2095.8	2088.0	2080.3	2080.3	2076.4	2080.3
20°	2018.3	2014.4	2006.7	2006.7	2002.8	1999.0	1991.2	1995.1
22.5°	1933.1	1925.4	1921.5	1921.5	1917.6	1917.6	1909.8	1909.8
25°	1844.0	1840.2	1836.2	1840.2	1832.3	1832.3	1824.6	1824.6
27.5°	1751.0	1747.1	1747.1	1747.1	1743.2	1747.1	1743.2	1743.2
30°	1658.0	1658.0	1654.2	1654.2	1658.0	1654.2	1658.0	1661.9
32.5°	1557.4	1557.4	1561.2	1561.2	1565.1	1565.1	1565.1	1565.1
35°	1452.7	1460.4	1460.4	1464.3	1468.2	1472.0	1472.0	1475.9
37.5°	1355.9	1359.8	1363.6	1367.5	1375.2	1375.2	1375.2	1375.2
40°	1251.2	1255.1	1262.9	1259.0	1274.6	1278.4	1274.6	1274.6
42.5°	1142.8	1150.6	1154.4	1162.2	1166.0	1173.8	1177.6	1177.6
45°	1042.0	1045.9	1053.7	1061.5	1065.3	1077.0	1077.0	1077.0
47.5°	937.5	945.2	949.1	956.8	960.7	972.3	976.3	972.3
50°	836.8	844.5	852.3	852.3	863.9	867.7	875.5	879.4
52.5°	739.9	743.8	751.5	755.4	763.2	770.9	774.8	778.7
55°	646.9	650.8	658.5	658.5	670.1	674.0	681.8	681.8
57.5°	561.7	565.6	573.3	569.5	577.2	584.9	584.9	581.1
60°	480.4	480.4	480.4	488.1	492.0	495.9	499.7	499.7
62.5°	395.1	402.9	406.8	406.8	410.7	414.5	414.5	410.7
65°	317.6	325.5	329.3	329.3	333.2	333.2	333.2	337.1
67.5°	240.1	240.1	240.1	244.0	240.1	240.1	240.1	240.1
70°	151.1	151.1	151.1	151.1	147.2	151.1	151.1	154.9
72.5°	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
75°	34.8	34.8	34.8	38.8	34.8	34.8	34.8	34.8
77.5°	15.5	11.6	15.5	15.5	11.6	11.6	11.6	11.6
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	0.0	3.9	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)