

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: P584922

Luminaire Tested: **HC855D010-HM82555827-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555827-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5170.6 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

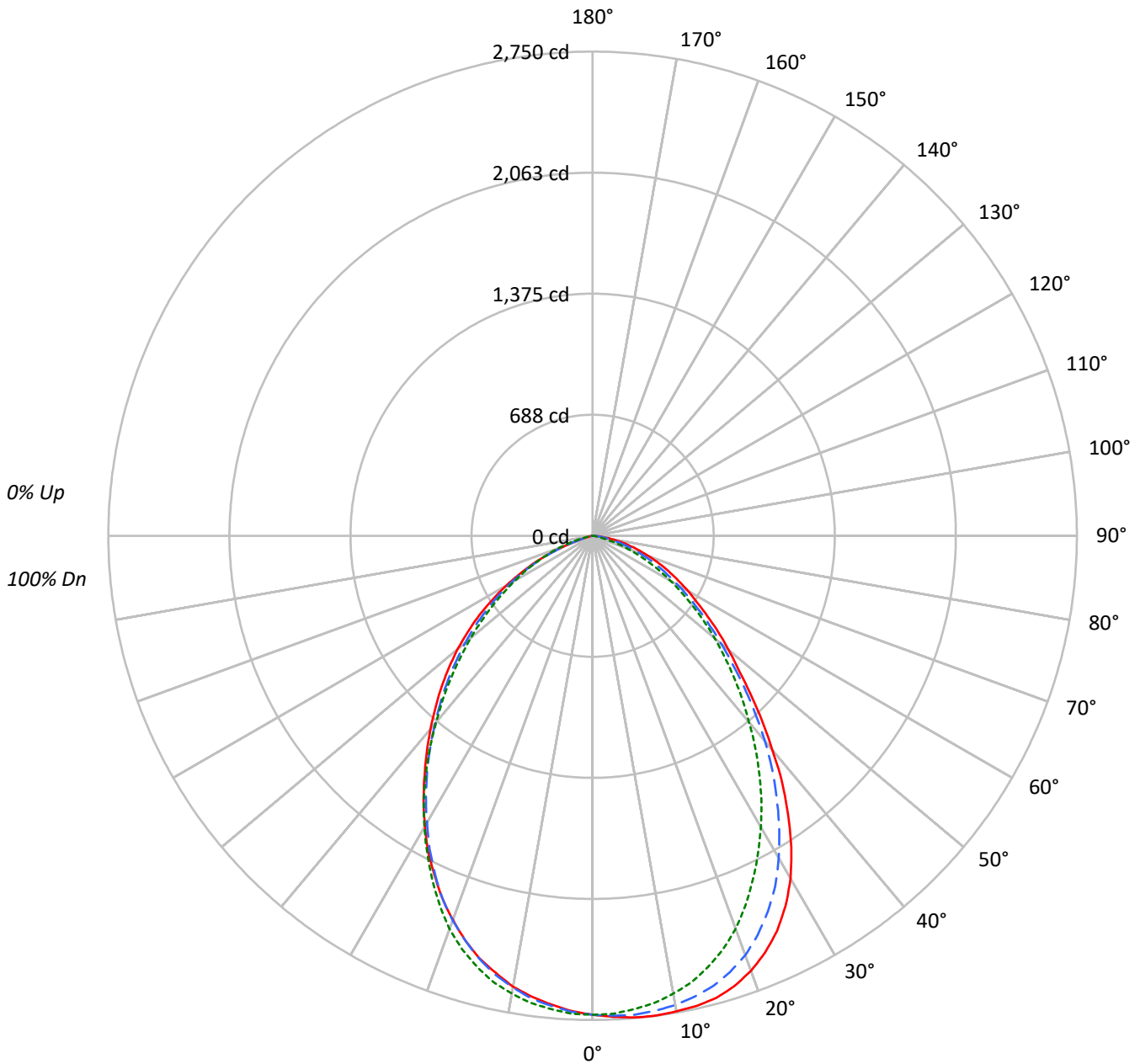
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	82	79	77			77
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67			67
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	59			59
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52			52
6	76	64	56	50	74	63	55	50	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	83893	83893	83893
5°	85000	83539	82750
10°	85870	82683	81433
15°	86735	80937	79312
20°	86294	77953	76164
25°	84281	73285	72294
30°	80058	68030	67770
35°	72879	62075	62621
40°	63891	55563	57607
45°	55122	49418	52902
50°	48270	43387	47920
55°	42762	37294	42176
60°	38533	31361	34950
65°	34717	25173	26764
70°	30456	18347	14741
75°	25973	9519	3896
80°	19995	2575	639
85°	12843	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	5.0
10°-20°	721.6	14.0
20°-30°	1024.2	19.8
30°-40°	1078.1	20.9
40°-50°	917.1	17.7
50°-60°	662.7	12.8
60°-70°	376.9	7.3
70°-80°	118.8	2.3
80°-90°	14.4	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°	2002.4	38.7
0°-40°	3080.5	59.6
0°-60°	4660.4	90.1
0°-90°	5170.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5170.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2721	2721	2721	2721	2721	
5°	2746	2732	2699	2681	2673	262
15°	2717	2648	2535	2488	2484	765
25°	2477	2354	2154	2118	2125	1135
35°	1936	1823	1649	1638	1664	1205
45°	1264	1217	1133	1162	1213	983
55°	795	737	694	734	784	717
65°	476	410	345	341	367	472
75°	218	167	80	36	33	234
85°	36	22	0	0	0	47
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°	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6
2.5°	2735.1	2738.7	2731.5	2731.5	2738.7	2731.5	2735.1	2735.1	2731.5	2731.5	2727.8
5°	2746.0	2742.4	2742.4	2742.4	2746.0	2738.7	2735.1	2738.7	2731.5	2731.5	2731.5
7.5°	2749.6	2749.6	2746.0	2742.4	2742.4	2742.4	2738.7	2735.1	2731.5	2724.2	2720.6
10°	2742.4	2742.4	2746.0	2738.7	2738.7	2731.5	2731.5	2724.2	2724.2	2716.9	2706.0
12.5°	2735.1	2731.5	2731.5	2724.2	2724.2	2716.9	2716.9	2706.0	2702.4	2691.5	2680.6
15°	2716.9	2713.3	2706.0	2702.4	2698.8	2695.1	2687.9	2684.2	2673.3	2658.8	2647.9
17.5°	2680.6	2677.0	2673.3	2666.1	2658.8	2655.2	2651.5	2640.6	2626.1	2615.2	2597.0
20°	2629.7	2626.1	2626.1	2615.2	2611.6	2600.7	2597.0	2582.5	2571.6	2549.8	2535.3
22.5°	2560.7	2564.3	2557.1	2549.8	2542.5	2531.6	2524.4	2509.8	2491.7	2469.9	2451.7
25°	2477.1	2480.8	2473.5	2466.2	2455.3	2448.1	2440.8	2419.0	2401.0	2375.5	2353.7
27.5°	2371.9	2371.9	2371.9	2364.6	2346.5	2342.8	2335.6	2313.8	2288.3	2266.5	2244.7
30°	2248.4	2244.7	2244.7	2233.8	2226.6	2212.0	2201.1	2183.0	2164.8	2139.4	2113.9
32.5°	2099.4	2103.0	2092.1	2084.9	2074.0	2074.0	2059.4	2044.9	2023.1	1997.7	1972.2
35°	1936.0	1939.7	1932.4	1928.8	1910.6	1907.0	1903.3	1885.2	1870.6	1852.5	1823.4
37.5°	1768.9	1765.3	1761.6	1761.6	1750.7	1743.5	1736.2	1725.3	1703.5	1689.0	1674.4
40°	1587.2	1587.2	1587.2	1583.6	1580.0	1572.7	1569.1	1561.8	1547.3	1532.7	1522.0
42.5°	1423.9	1423.9	1420.2	1416.6	1409.3	1413.0	1405.7	1398.4	1383.9	1373.0	1365.7
45°	1264.0	1264.0	1264.0	1267.6	1260.4	1249.5	1249.5	1242.2	1234.9	1227.7	1216.8
47.5°	1122.3	1133.2	1125.9	1122.3	1125.9	1111.4	1111.4	1104.1	1096.9	1089.7	1075.2
50°	1006.2	1006.2	1006.2	998.9	995.3	995.3	984.4	977.1	973.5	966.2	951.7
52.5°	900.8	893.5	893.5	889.9	886.3	879.0	879.0	871.7	857.2	849.9	839.0
55°	795.4	795.4	791.8	788.2	784.5	780.9	777.3	766.4	759.1	748.2	737.3
57.5°	701.0	708.2	704.6	697.3	690.1	690.1	682.8	675.5	664.6	653.9	643.0
60°	624.8	621.2	621.2	617.5	610.3	606.6	603.0	592.1	581.2	570.3	559.4
62.5°	544.9	544.9	544.9	537.6	530.3	526.7	523.1	515.8	501.3	490.4	483.1
65°	475.8	472.2	468.6	464.9	461.3	454.0	450.4	443.1	432.2	421.3	410.4
67.5°	406.8	403.2	403.2	399.5	388.6	385.0	385.0	374.1	363.2	352.3	341.4
70°	337.8	337.8	337.8	330.5	326.9	323.2	319.6	312.3	301.4	290.5	279.6
72.5°	279.6	276.0	276.0	272.4	261.5	257.8	254.2	246.9	236.0	228.8	221.5
75°	218.0	218.0	214.4	210.7	207.1	203.5	199.8	192.6	181.7	170.8	167.1
77.5°	167.1	163.5	163.5	159.9	152.6	149.0	149.0	141.7	130.8	123.5	116.3
80°	112.6	116.3	112.6	109.0	105.4	101.7	98.1	94.5	87.2	79.9	72.7
82.5°	69.0	72.7	69.0	69.0	65.4	61.8	61.8	54.5	50.9	47.2	43.6
85°	36.3	36.3	36.3	36.3	32.7	32.7	32.7	29.1	25.4	21.8	21.8
87.5°	10.9	14.5	10.9	10.9	10.9	10.9	10.9	10.9	7.3	7.3	7.3
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6
2.5°	2731.5	2727.8	2724.2	2724.2	2724.2	2724.2	2724.2	2720.6	2716.9	2716.9	2716.9
5°	2724.2	2724.2	2724.2	2720.6	2716.9	2716.9	2709.7	2706.0	2702.4	2698.8	2695.1
7.5°	2716.9	2709.7	2706.0	2702.4	2698.8	2698.8	2691.5	2684.2	2684.2	2677.0	2669.7
10°	2695.1	2691.5	2684.2	2677.0	2673.3	2669.7	2662.4	2651.5	2647.9	2640.6	2633.4
12.5°	2669.7	2662.4	2655.2	2640.6	2637.0	2633.4	2618.8	2607.9	2600.7	2597.0	2578.9
15°	2637.0	2622.5	2611.6	2593.4	2589.8	2582.5	2571.6	2560.7	2546.2	2535.3	2528.0
17.5°	2578.9	2564.3	2546.2	2528.0	2520.7	2520.7	2502.6	2488.0	2469.9	2462.6	2448.1
20°	2509.8	2491.7	2477.1	2455.3	2444.4	2433.5	2422.6	2401.0	2386.4	2375.5	2357.4
22.5°	2429.9	2404.6	2386.4	2364.6	2346.5	2335.6	2317.4	2299.2	2281.1	2270.2	2255.6
25°	2328.3	2306.5	2277.4	2255.6	2244.7	2230.2	2208.4	2190.2	2172.1	2153.9	2146.6
27.5°	2215.7	2186.6	2161.2	2135.7	2124.8	2113.9	2088.5	2066.7	2052.2	2034.0	2026.7
30°	2092.1	2063.1	2034.0	2012.2	2001.3	1983.1	1968.7	1943.3	1925.1	1910.6	1892.4
32.5°	1950.6	1928.8	1903.3	1870.6	1863.4	1848.8	1827.0	1816.1	1794.3	1783.4	1768.9
35°	1798.0	1783.4	1758.0	1732.6	1721.7	1714.4	1696.2	1674.4	1659.9	1649.0	1641.7
37.5°	1652.6	1634.5	1609.0	1590.9	1583.6	1572.7	1550.9	1540.0	1525.6	1518.3	1503.8
40°	1496.5	1478.4	1460.2	1449.3	1438.4	1431.1	1416.6	1405.7	1391.2	1380.3	1376.6
42.5°	1343.9	1333.0	1318.5	1304.0	1300.3	1289.4	1282.2	1271.3	1260.4	1256.7	1245.8
45°	1205.9	1195.0	1180.4	1165.9	1162.3	1155.0	1151.4	1140.5	1133.2	1133.2	1133.2
47.5°	1067.9	1057.0	1042.5	1035.2	1038.9	1024.3	1024.3	1020.7	1013.4	1013.4	1017.1
50°	944.4	929.9	926.2	919.0	911.7	904.4	908.1	897.2	897.2	904.4	900.8
52.5°	828.1	813.6	810.0	802.7	799.1	799.1	795.4	795.4	791.8	795.4	795.4
55°	722.8	711.9	704.6	697.3	693.7	693.7	693.7	690.1	686.4	693.7	697.3
57.5°	628.4	624.8	617.5	606.6	603.0	599.4	595.7	595.7	595.7	595.7	599.4
60°	544.9	537.6	530.3	519.4	519.4	515.8	512.2	508.5	508.5	508.5	508.5
62.5°	472.2	461.3	450.4	443.1	439.5	435.9	432.2	425.0	425.0	425.0	425.0
65°	399.5	388.6	381.4	374.1	366.8	366.8	359.6	355.9	348.7	345.0	337.8
67.5°	330.5	323.2	316.0	305.1	301.4	297.8	290.5	286.9	276.0	272.4	268.7
70°	268.7	257.8	250.6	243.3	239.7	232.4	225.1	218.0	210.7	203.5	196.2
72.5°	210.7	199.8	192.6	185.3	178.0	178.0	167.1	159.9	149.0	141.7	130.8
75°	156.2	145.3	138.1	127.2	123.5	119.9	109.0	101.7	90.8	79.9	72.7
77.5°	105.4	98.1	90.8	79.9	72.7	72.7	61.8	54.5	47.2	36.3	32.7
80°	65.4	58.1	50.9	43.6	43.6	36.3	32.7	25.4	18.2	14.5	10.9
82.5°	36.3	32.7	29.1	21.8	21.8	18.2	14.5	10.9	7.3	3.6	3.6
85°	18.2	14.5	10.9	10.9	7.3	7.3	7.3	3.6	3.6	0.0	0.0
87.5°	7.3	3.6	3.6	3.6	3.6	3.6	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6
2.5°	2713.3	2713.3	2709.7	2709.7	2709.7	2706.0	2709.7	2706.0	2706.0	2706.0	2709.7
5°	2698.8	2691.5	2691.5	2687.9	2687.9	2684.2	2687.9	2684.2	2680.6	2677.0	2680.6
7.5°	2669.7	2662.4	2658.8	2655.2	2655.2	2655.2	2651.5	2647.9	2651.5	2640.6	2647.9
10°	2629.7	2626.1	2618.8	2615.2	2611.6	2615.2	2611.6	2604.3	2604.3	2604.3	2600.7
12.5°	2578.9	2571.6	2568.0	2564.3	2557.1	2557.1	2560.7	2553.4	2553.4	2546.2	2546.2
15°	2517.1	2509.8	2502.6	2502.6	2495.3	2495.3	2491.7	2491.7	2488.0	2484.4	2484.4
17.5°	2440.8	2429.9	2422.6	2426.3	2422.6	2419.0	2419.0	2411.7	2408.1	2411.7	2411.7
20°	2350.1	2342.8	2335.6	2339.2	2331.9	2328.3	2331.9	2321.0	2324.7	2324.7	2324.7
22.5°	2248.4	2244.7	2233.8	2233.8	2226.6	2222.9	2226.6	2226.6	2230.2	2226.6	2226.6
25°	2135.7	2128.5	2121.2	2121.2	2117.6	2113.9	2117.6	2121.2	2117.6	2121.2	2121.2
27.5°	2015.8	2004.9	2004.9	1997.7	1997.7	2001.3	1997.7	2001.3	2004.9	2004.9	2012.2
30°	1885.2	1881.5	1877.9	1874.3	1874.3	1877.9	1877.9	1877.9	1881.5	1888.8	1888.8
32.5°	1761.6	1754.4	1747.1	1747.1	1754.4	1750.7	1754.4	1754.4	1761.6	1761.6	1768.9
35°	1627.2	1627.2	1619.9	1623.6	1623.6	1623.6	1623.6	1630.8	1638.1	1641.7	1649.0
37.5°	1503.8	1492.9	1496.5	1496.5	1500.2	1496.5	1507.4	1507.4	1514.7	1514.7	1522.0
40°	1369.4	1369.4	1373.0	1369.4	1373.0	1373.0	1380.3	1387.5	1391.2	1398.4	1402.1
42.5°	1242.2	1249.5	1242.2	1245.8	1249.5	1253.1	1256.7	1260.4	1274.9	1282.2	1293.1
45°	1125.9	1129.6	1133.2	1136.8	1133.2	1140.5	1144.1	1151.4	1162.3	1165.9	1169.5
47.5°	1013.4	1017.1	1020.7	1024.3	1024.3	1031.6	1035.2	1042.5	1049.8	1053.4	1057.0
50°	904.4	911.7	915.3	915.3	919.0	926.2	933.5	933.5	940.8	951.7	955.3
52.5°	806.3	806.3	813.6	817.2	820.9	820.9	831.8	835.4	839.0	846.3	853.6
55°	697.3	708.2	711.9	711.9	719.1	726.4	730.0	733.7	733.7	748.2	748.2
57.5°	603.0	606.6	613.9	613.9	613.9	624.8	624.8	632.1	635.7	639.3	646.6
60°	508.5	515.8	515.8	519.4	515.8	523.1	526.7	534.0	537.6	541.2	544.9
62.5°	421.3	421.3	425.0	425.0	425.0	425.0	432.2	432.2	439.5	443.1	446.8
65°	337.8	337.8	337.8	337.8	337.8	337.8	337.8	337.8	341.4	341.4	348.7
67.5°	261.5	257.8	250.6	254.2	250.6	250.6	246.9	246.9	250.6	250.6	257.8
70°	188.9	185.3	178.0	178.0	174.4	170.8	167.1	163.5	159.9	159.9	159.9
72.5°	123.5	116.3	105.4	101.7	101.7	94.5	87.2	83.6	83.6	83.6	83.6
75°	61.8	54.5	47.2	43.6	43.6	36.3	40.0	36.3	36.3	36.3	36.3
77.5°	25.4	18.2	14.5	14.5	14.5	10.9	10.9	10.9	10.9	10.9	10.9
80°	7.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P584922

CATALOG NUMBER: HC855D010-HM82555827-81RWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6
2.5°	2706.0	2706.0	2698.8	2702.4	2702.4	2702.4	2702.4	2702.4
5°	2673.3	2677.0	2673.3	2677.0	2677.0	2673.3	2673.3	2673.3
7.5°	2640.6	2644.3	2640.6	2644.3	2644.3	2644.3	2640.6	2640.6
10°	2600.7	2600.7	2600.7	2600.7	2600.7	2597.0	2600.7	2600.7
12.5°	2546.2	2546.2	2546.2	2549.8	2549.8	2546.2	2546.2	2542.5
15°	2488.0	2480.8	2484.4	2488.0	2484.4	2484.4	2484.4	2484.4
17.5°	2408.1	2411.7	2408.1	2408.1	2408.1	2408.1	2411.7	2408.1
20°	2324.7	2324.7	2328.3	2324.7	2324.7	2324.7	2324.7	2321.0
22.5°	2230.2	2226.6	2226.6	2230.2	2230.2	2226.6	2230.2	2230.2
25°	2124.8	2128.5	2124.8	2124.8	2128.5	2128.5	2128.5	2124.8
27.5°	2012.2	2015.8	2019.5	2015.8	2015.8	2015.8	2019.5	2023.1
30°	1896.1	1903.3	1896.1	1896.1	1903.3	1899.7	1903.3	1903.3
32.5°	1772.5	1783.4	1776.2	1783.4	1783.4	1787.1	1783.4	1787.1
35°	1649.0	1659.9	1659.9	1659.9	1663.5	1667.2	1667.2	1663.5
37.5°	1532.7	1536.4	1536.4	1543.6	1547.3	1550.9	1550.9	1547.3
40°	1413.0	1420.2	1423.9	1423.9	1423.9	1431.1	1438.4	1431.1
42.5°	1296.7	1300.3	1304.0	1304.0	1311.2	1314.9	1318.5	1318.5
45°	1184.1	1191.3	1195.0	1198.6	1202.2	1209.5	1205.9	1213.1
47.5°	1067.9	1078.8	1082.5	1086.1	1093.4	1096.9	1100.5	1104.1
50°	962.6	969.8	969.8	977.1	988.0	988.0	995.3	998.9
52.5°	857.2	860.8	864.5	868.1	875.4	882.6	882.6	889.9
55°	755.5	759.1	759.1	762.7	766.4	780.9	784.5	784.5
57.5°	650.2	650.2	657.4	661.0	664.6	671.9	671.9	671.9
60°	548.5	552.1	552.1	555.8	559.4	566.7	570.3	566.7
62.5°	446.8	450.4	450.4	454.0	461.3	464.9	461.3	461.3
65°	352.3	355.9	355.9	359.6	366.8	366.8	363.2	366.8
67.5°	257.8	257.8	257.8	257.8	257.8	257.8	257.8	257.8
70°	163.5	159.9	156.2	159.9	159.9	159.9	156.2	163.5
72.5°	79.9	83.6	83.6	83.6	83.6	83.6	83.6	79.9
75°	36.3	36.3	32.7	32.7	32.7	36.3	36.3	32.7
77.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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













(END OF REPORT)