

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: P584931

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555827-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5141.5 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

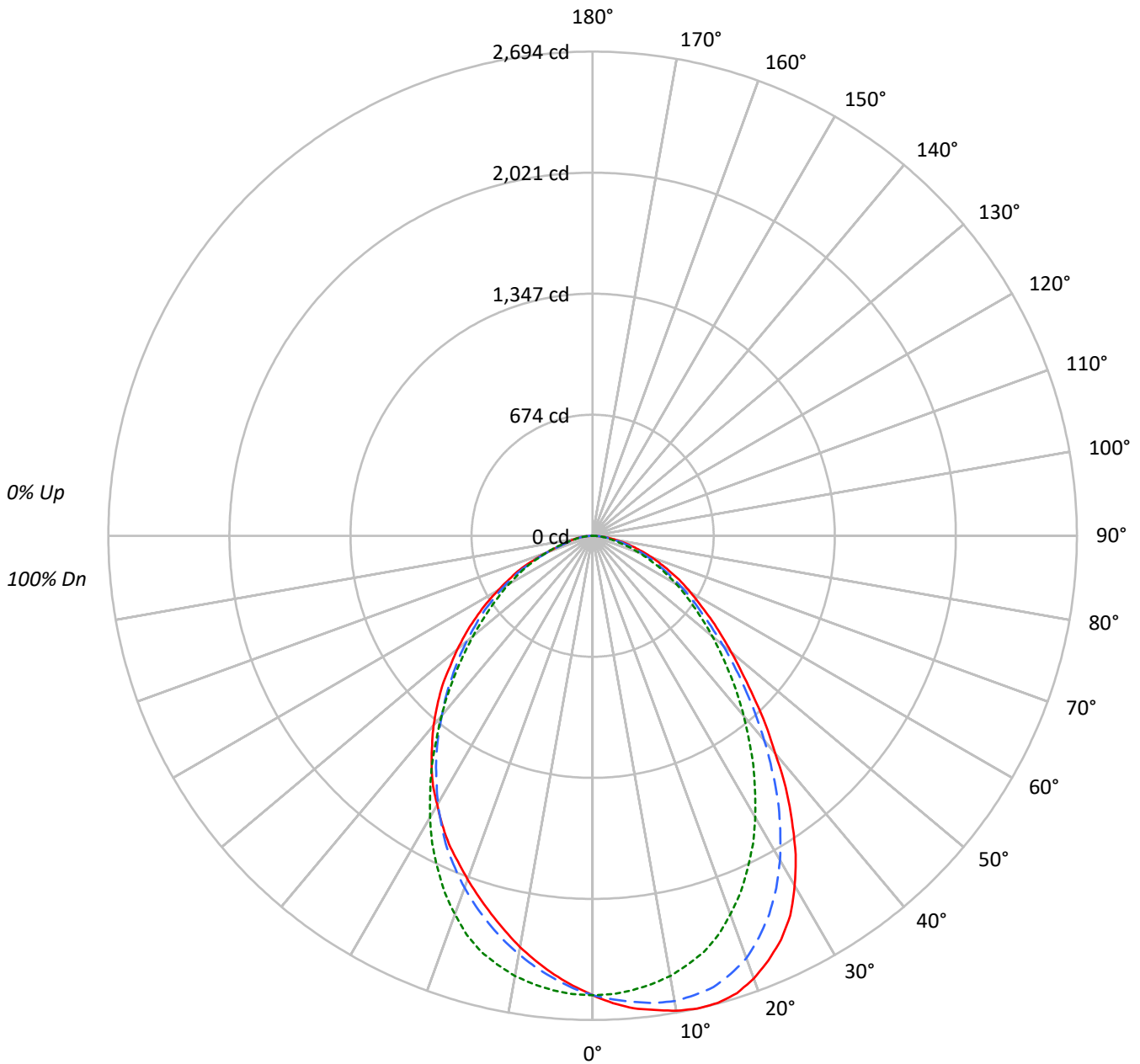
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87					87			
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75					75			
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65					65			
4	87	76	68	62	84	75	67	61	72	66	61	70	64	60	68	63	59	57					57			
5	80	69	60	54	78	67	60	54	65	59	54	64	58	53	62	57	52	50					50			
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40					40			
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37					37			
9	61	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33					33			
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	78830	78830	78830
5°	81716	78568	75872
10°	84026	77882	72769
15°	85898	76509	69553
20°	86035	73523	66730
25°	84383	69436	64367
30°	80037	64391	61546
35°	72721	58642	58781
40°	63585	52620	55402
45°	55109	46871	51620
50°	48251	41636	47033
55°	42945	36896	42558
60°	38743	33143	37398
65°	34972	29142	32586
70°	31430	24559	24226
75°	27689	19468	18169
80°	23210	16124	17421
85°	18009	14152	15426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	4.7
10°-20°	679.3	13.2
20°-30°	970.8	18.9
30°-40°	1031.5	20.1
40°-50°	888.1	17.3
50°-60°	664.0	12.9
60°-70°	423.5	8.2
70°-80°	192.7	3.7
80°-90°	50.6	1.0
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°	1891.2	36.8
0°-40°	2922.7	56.8
0°-60°	4474.7	87.0
0°-90°	5141.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5141.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2556	2556	2556	2556	2556	
5°	2640	2604	2538	2473	2451	253
15°	2691	2600	2397	2233	2179	758
25°	2480	2324	2041	1917	1892	1135
35°	1932	1798	1558	1518	1562	1203
45°	1264	1195	1075	1104	1184	982
55°	799	734	686	744	792	718
65°	479	425	399	418	447	478
75°	232	200	163	149	152	247
85°	51	44	40	44	44	61
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°	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4
2.5°	2603.6	2596.3	2600.0	2596.3	2600.0	2600.0	2592.7	2592.7	2592.7	2592.7	2581.8
5°	2639.9	2636.3	2636.3	2632.7	2629.0	2632.7	2629.0	2625.4	2618.1	2614.5	2603.6
7.5°	2661.7	2661.7	2661.7	2661.7	2658.1	2654.5	2650.8	2643.6	2636.3	2629.0	2621.8
10°	2683.5	2687.0	2683.5	2679.9	2676.3	2669.0	2665.4	2658.1	2647.2	2636.3	2629.0
12.5°	2694.3	2694.3	2690.7	2690.7	2683.5	2679.9	2669.0	2658.1	2647.2	2636.3	2618.1
15°	2690.7	2690.7	2687.0	2683.5	2672.6	2669.0	2661.7	2650.8	2632.7	2618.1	2600.0
17.5°	2669.0	2665.4	2658.1	2658.1	2643.6	2639.9	2632.7	2618.1	2600.0	2578.2	2556.4
20°	2621.8	2621.8	2618.1	2614.5	2600.0	2589.1	2581.8	2563.6	2549.1	2523.7	2501.9
22.5°	2556.4	2563.6	2556.4	2549.1	2530.9	2527.3	2516.4	2494.6	2472.8	2443.9	2418.4
25°	2480.1	2476.4	2472.8	2465.7	2451.1	2443.9	2429.3	2407.5	2385.7	2353.0	2324.0
27.5°	2382.1	2367.6	2367.6	2353.0	2342.1	2331.2	2324.0	2302.2	2273.1	2247.8	2211.4
30°	2247.8	2251.4	2233.2	2229.6	2211.4	2204.2	2189.6	2167.8	2142.4	2113.4	2084.3
32.5°	2102.5	2091.6	2091.6	2077.0	2062.5	2051.6	2048.0	2022.6	2000.8	1971.8	1942.7
35°	1931.8	1931.8	1920.9	1917.3	1902.7	1895.5	1884.6	1870.0	1844.6	1819.3	1797.5
37.5°	1764.8	1757.5	1753.9	1746.6	1735.7	1724.8	1724.8	1699.4	1695.8	1666.7	1637.6
40°	1579.6	1586.9	1579.6	1568.7	1565.1	1557.8	1554.2	1539.7	1528.8	1503.3	1485.2
42.5°	1423.4	1416.1	1416.1	1412.5	1398.0	1398.0	1390.8	1383.5	1365.4	1358.1	1336.3
45°	1263.7	1270.9	1260.0	1263.7	1249.1	1249.1	1249.1	1234.6	1220.1	1209.2	1194.6
47.5°	1125.7	1129.3	1129.3	1118.4	1114.8	1114.8	1107.5	1100.3	1089.4	1074.8	1063.9
50°	1005.8	1009.4	1002.2	998.5	991.3	987.6	987.6	973.1	966.0	951.4	944.2
52.5°	896.9	896.9	893.3	893.3	882.4	882.4	875.1	864.2	857.0	849.7	831.5
55°	798.8	798.8	795.2	791.6	791.6	780.7	777.0	766.1	758.9	744.5	733.6
57.5°	704.5	708.1	704.5	700.9	697.2	693.6	686.3	675.4	668.2	657.3	650.0
60°	628.2	628.2	624.6	620.9	613.7	610.0	606.4	599.1	588.2	581.0	570.1
62.5°	555.5	551.9	548.3	544.6	537.4	537.4	530.2	522.9	512.0	504.8	497.5
65°	479.3	479.3	475.7	475.7	472.1	464.8	461.2	457.5	443.0	439.4	424.8
67.5°	410.3	414.0	406.7	406.7	399.4	399.4	395.8	384.9	381.3	374.0	366.7
70°	348.6	348.6	348.6	344.9	337.7	334.0	330.4	323.1	319.6	312.3	305.1
72.5°	286.9	286.9	283.3	283.3	279.6	276.0	272.4	265.1	265.1	257.8	250.6
75°	232.4	232.4	228.8	225.1	221.5	221.5	217.9	214.2	207.0	203.3	199.7
77.5°	177.9	177.9	177.9	174.3	170.6	170.6	170.6	163.4	156.1	156.1	152.5
80°	130.7	130.7	127.0	127.0	123.4	123.4	123.4	119.8	116.1	112.5	108.9
82.5°	87.2	87.2	87.2	87.2	83.6	83.6	83.6	79.9	76.3	76.3	76.3
85°	50.9	50.9	50.9	50.9	47.2	47.2	47.2	47.2	47.2	43.6	43.6
87.5°	21.8	18.2	21.8	18.2	21.8	18.2	21.8	18.2	18.2	18.2	18.2
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4
2.5°	2585.4	2581.8	2578.2	2574.5	2574.5	2570.9	2563.6	2560.0	2556.4	2552.7	2552.7
5°	2600.0	2596.3	2589.1	2581.8	2578.2	2570.9	2563.6	2556.4	2549.1	2538.2	2534.6
7.5°	2610.9	2600.0	2592.7	2578.2	2574.5	2567.3	2556.4	2545.5	2530.9	2516.4	2505.5
10°	2610.9	2596.3	2585.4	2567.3	2560.0	2552.7	2538.2	2520.0	2501.9	2487.3	2469.3
12.5°	2603.6	2585.4	2567.3	2549.1	2538.2	2527.3	2505.5	2487.3	2465.7	2443.9	2429.3
15°	2578.2	2556.4	2534.6	2512.8	2501.9	2487.3	2465.7	2440.2	2418.4	2396.6	2371.2
17.5°	2530.9	2509.1	2483.7	2458.4	2443.9	2433.0	2400.3	2382.1	2349.4	2327.6	2305.8
20°	2469.3	2443.9	2411.2	2385.7	2367.6	2356.7	2331.2	2298.5	2273.1	2240.5	2218.7
22.5°	2389.4	2356.7	2324.0	2298.5	2280.4	2265.8	2233.2	2200.5	2178.7	2149.7	2124.2
25°	2294.9	2262.2	2229.6	2193.3	2175.1	2160.6	2131.5	2102.5	2073.4	2040.8	2019.0
27.5°	2182.4	2146.0	2117.0	2084.3	2066.1	2044.3	2011.7	1982.7	1953.6	1931.8	1902.7
30°	2058.9	2019.0	1989.9	1957.2	1939.1	1920.9	1888.2	1859.1	1833.7	1808.4	1793.9
32.5°	1910.0	1880.9	1851.9	1819.3	1804.8	1793.9	1761.2	1732.1	1703.0	1681.2	1670.3
35°	1768.4	1735.7	1710.3	1681.2	1663.1	1652.2	1623.1	1597.8	1583.3	1557.8	1543.3
37.5°	1619.5	1594.2	1565.1	1536.0	1525.1	1514.2	1492.4	1467.0	1445.2	1427.0	1419.8
40°	1463.4	1441.6	1416.1	1398.0	1387.2	1376.3	1358.1	1339.9	1325.4	1307.2	1300.0
42.5°	1314.5	1300.0	1278.2	1256.4	1245.5	1241.9	1220.1	1205.5	1198.3	1191.0	1183.7
45°	1180.2	1158.4	1143.9	1129.3	1118.4	1111.2	1100.3	1089.4	1082.1	1074.8	1067.6
47.5°	1049.4	1031.2	1016.7	1005.8	994.9	991.3	984.0	973.1	966.0	966.0	966.0
50°	929.6	915.1	900.6	893.3	889.7	882.4	875.1	871.5	867.9	867.9	867.9
52.5°	824.3	809.7	798.8	791.6	791.6	784.3	777.0	773.4	773.4	773.4	773.4
55°	726.3	715.4	708.1	700.9	693.6	690.0	690.0	690.0	686.3	686.3	690.0
57.5°	639.1	631.8	620.9	613.7	610.0	610.0	606.4	602.8	606.4	610.0	613.7
60°	559.2	551.9	548.3	537.4	537.4	537.4	533.8	533.8	533.8	537.4	541.0
62.5°	486.6	483.0	475.7	472.1	468.4	468.4	464.8	464.8	464.8	464.8	468.4
65°	421.2	414.0	406.7	406.7	406.7	403.1	403.1	395.8	399.4	399.4	395.8
67.5°	359.5	352.2	348.6	344.9	341.3	341.3	337.7	334.0	330.4	330.4	330.4
70°	301.4	294.2	294.2	286.9	286.9	283.3	279.6	279.6	276.0	272.4	268.7
72.5°	243.3	239.7	236.0	232.4	232.4	232.4	228.8	225.1	221.5	217.9	210.6
75°	192.4	192.4	185.2	181.5	181.5	177.9	174.3	170.6	167.0	163.4	159.7
77.5°	148.8	145.2	137.9	134.3	134.3	134.3	130.7	127.0	123.4	119.8	116.1
80°	108.9	105.4	101.7	98.1	98.1	98.1	94.5	94.5	90.8	90.8	90.8
82.5°	72.7	72.7	69.0	69.0	69.0	69.0	65.4	65.4	65.4	65.4	65.4
85°	43.6	43.6	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
87.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4
2.5°	2545.5	2545.5	2538.2	2534.6	2530.9	2534.6	2527.3	2523.7	2520.0	2520.0	2516.4
5°	2523.7	2520.0	2505.5	2501.9	2498.2	2494.6	2487.3	2480.1	2472.8	2469.3	2465.7
7.5°	2494.6	2483.7	2469.3	2465.7	2462.0	2451.1	2440.2	2433.0	2422.1	2418.4	2411.2
10°	2454.8	2440.2	2429.3	2418.4	2411.2	2400.3	2389.4	2378.5	2363.9	2360.3	2349.4
12.5°	2407.5	2389.4	2367.6	2363.9	2353.0	2338.5	2324.0	2313.1	2302.2	2294.9	2284.0
15°	2349.4	2331.2	2309.4	2298.5	2287.6	2276.7	2258.6	2244.1	2233.2	2222.3	2211.4
17.5°	2280.4	2258.6	2240.5	2229.6	2222.3	2204.2	2189.6	2171.5	2160.6	2149.7	2138.8
20°	2196.9	2178.7	2153.3	2142.4	2138.8	2124.2	2106.1	2098.8	2084.3	2073.4	2066.1
22.5°	2102.5	2084.3	2062.5	2055.2	2040.8	2033.5	2015.4	2008.1	2000.8	1989.9	1986.3
25°	1997.2	1979.0	1960.9	1957.2	1946.3	1939.1	1928.2	1917.3	1917.3	1906.4	1906.4
27.5°	1888.2	1870.0	1855.5	1848.2	1844.6	1837.3	1826.6	1822.9	1819.3	1815.7	1815.7
30°	1772.1	1750.3	1743.0	1739.4	1735.7	1728.5	1724.8	1717.6	1721.2	1724.8	1721.2
32.5°	1648.5	1641.3	1626.7	1619.5	1623.1	1619.5	1612.2	1619.5	1615.8	1623.1	1626.7
35°	1528.8	1521.5	1514.2	1514.2	1507.0	1507.0	1507.0	1510.6	1517.9	1521.5	1528.8
37.5°	1412.5	1401.6	1398.0	1394.4	1398.0	1398.0	1398.0	1405.2	1412.5	1419.8	1430.7
40°	1289.1	1281.8	1281.8	1281.8	1281.8	1292.7	1289.1	1296.3	1303.6	1314.5	1325.4
42.5°	1172.9	1172.9	1176.6	1176.6	1176.6	1176.6	1183.7	1194.6	1205.5	1216.4	1227.3
45°	1063.9	1063.9	1063.9	1071.2	1071.2	1074.8	1089.4	1096.6	1103.9	1114.8	1125.7
47.5°	962.3	962.3	966.0	969.5	973.1	980.4	987.6	998.5	1009.4	1016.7	1027.6
50°	867.9	871.5	878.8	886.0	886.0	889.7	900.6	907.8	915.1	926.0	929.6
52.5°	777.0	784.3	791.6	795.2	798.8	806.1	809.7	820.6	824.3	835.2	838.8
55°	693.6	697.2	708.1	711.8	711.8	719.0	726.3	733.6	744.5	744.5	751.7
57.5°	617.3	620.9	628.2	631.8	628.2	639.1	642.7	650.0	653.6	660.9	664.5
60°	541.0	548.3	551.9	551.9	555.5	559.2	566.4	566.4	573.7	581.0	581.0
62.5°	468.4	472.1	475.7	479.3	483.0	479.3	490.2	490.2	497.5	501.1	508.4
65°	399.4	403.1	403.1	406.7	406.7	410.3	410.3	414.0	417.6	424.8	428.5
67.5°	330.4	330.4	330.4	334.0	330.4	334.0	334.0	337.7	337.7	344.9	348.6
70°	268.7	265.1	261.5	261.5	261.5	261.5	257.8	261.5	261.5	265.1	265.1
72.5°	207.0	203.3	199.7	196.1	196.1	192.4	188.8	192.4	192.4	196.1	196.1
75°	156.1	148.8	148.8	148.8	145.2	145.2	145.2	148.8	148.8	148.8	152.5
77.5°	116.1	116.1	112.5	112.5	112.5	116.1	116.1	119.8	119.8	119.8	119.8
80°	87.2	90.8	90.8	90.8	90.8	94.5	94.5	94.5	94.5	98.1	98.1
82.5°	65.4	65.4	65.4	65.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0
85°	40.0	43.6	43.6	40.0	43.6	43.6	43.6	43.6	43.6	43.6	43.6
87.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
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: P584931

CATALOG NUMBER: HC855D010-HM82555827-81WWWB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4	2556.4
2.5°	2512.8	2512.8	2512.8	2512.8	2509.1	2509.1	2509.1	2505.5
5°	2458.4	2458.4	2458.4	2451.1	2454.8	2454.8	2447.5	2451.1
7.5°	2403.9	2400.3	2396.6	2396.6	2393.0	2389.4	2385.7	2389.4
10°	2342.1	2331.2	2331.2	2327.6	2327.6	2320.3	2320.3	2324.0
12.5°	2273.1	2265.8	2265.8	2262.2	2258.6	2255.0	2251.4	2251.4
15°	2204.2	2196.9	2193.3	2189.6	2186.0	2178.7	2182.4	2178.7
17.5°	2135.1	2124.2	2124.2	2120.6	2117.0	2109.7	2109.7	2106.1
20°	2055.2	2051.6	2044.3	2048.0	2044.3	2037.2	2033.5	2033.5
22.5°	1975.4	1975.4	1971.8	1971.8	1968.1	1964.5	1960.9	1960.9
25°	1899.1	1895.5	1899.1	1899.1	1888.2	1888.2	1888.2	1891.8
27.5°	1812.0	1815.7	1812.0	1812.0	1812.0	1812.0	1815.7	1812.0
30°	1724.8	1724.8	1724.8	1728.5	1735.7	1732.1	1732.1	1728.5
32.5°	1630.4	1634.0	1634.0	1637.6	1641.3	1648.5	1648.5	1652.2
35°	1536.0	1543.3	1546.9	1543.3	1554.2	1554.2	1561.5	1561.5
37.5°	1437.9	1441.6	1448.8	1452.5	1459.7	1463.4	1467.0	1467.0
40°	1332.7	1347.2	1350.8	1354.5	1365.4	1365.4	1369.0	1376.3
42.5°	1234.6	1249.1	1252.8	1256.4	1263.7	1274.6	1270.9	1278.2
45°	1140.2	1151.1	1154.8	1158.4	1169.3	1172.9	1172.9	1183.7
47.5°	1038.5	1045.8	1049.4	1056.7	1063.9	1071.2	1078.5	1074.8
50°	936.9	947.8	955.1	958.7	969.5	973.1	976.7	980.4
52.5°	846.1	853.3	857.0	860.6	871.5	875.1	878.8	886.0
55°	758.9	762.5	769.8	766.1	777.0	780.7	784.3	791.6
57.5°	671.8	675.4	679.1	679.1	686.3	693.6	697.2	700.9
60°	588.2	595.5	599.1	599.1	599.1	606.4	606.4	606.4
62.5°	512.0	512.0	515.7	515.7	522.9	522.9	522.9	522.9
65°	432.1	435.7	439.4	439.4	446.6	443.0	450.3	446.6
67.5°	348.6	348.6	355.8	355.8	352.2	355.8	355.8	355.8
70°	265.1	265.1	268.7	268.7	268.7	268.7	268.7	268.7
72.5°	196.1	196.1	196.1	199.7	196.1	196.1	199.7	196.1
75°	152.5	152.5	152.5	152.5	152.5	152.5	152.5	152.5
77.5°	119.8	119.8	123.4	123.4	123.4	123.4	123.4	123.4
80°	98.1	98.1	98.1	98.1	101.7	98.1	98.1	98.1
82.5°	72.7	69.0	72.7	69.0	72.7	72.7	72.7	72.7
85°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
87.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
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)