

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: P585202

Luminaire Tested: **HC880D010-HM86080827-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080827-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5663.9 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

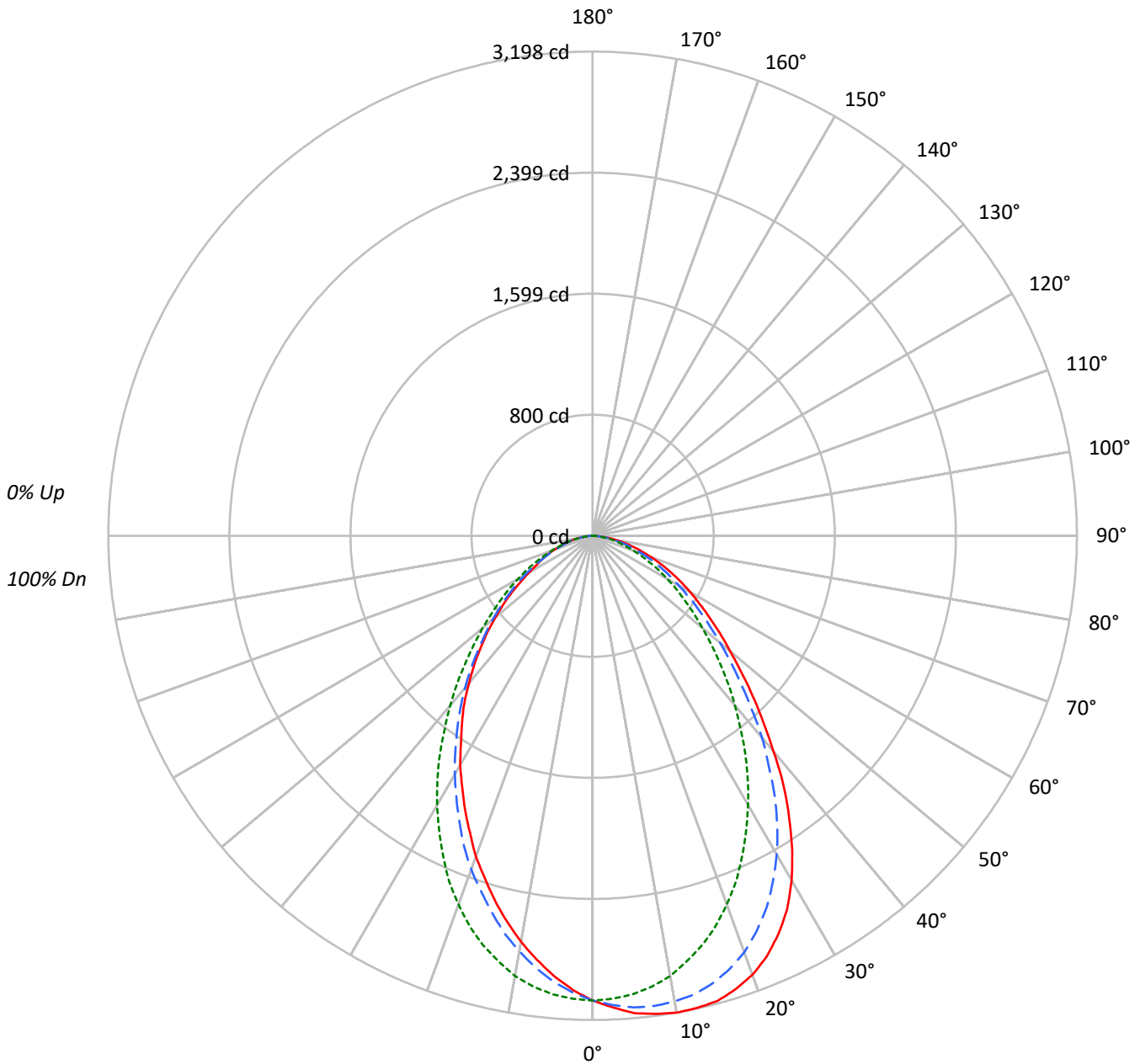
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	81	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	68	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	54	64	59	54	63	57	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	41																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	94637	94637	94637
5°	97964	94094	90358
10°	100139	92446	85275
15°	101563	89333	79628
20°	101258	84995	73926
25°	98755	79484	67868
30°	93560	73097	62273
35°	85117	66148	56591
40°	74760	58835	51127
45°	65191	51751	45580
50°	56733	45349	40158
55°	50595	39848	34929
60°	45971	34925	29794
65°	41320	30383	27041
70°	36794	25912	24397
75°	32240	21827	20838
80°	27365	17758	18504
85°	20627	13268	14718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	5.1
10°-20°	792.0	14.0
20°-30°	1099.4	19.4
30°-40°	1136.7	20.1
40°-50°	951.8	16.8
50°-60°	690.9	12.2
60°-70°	436.0	7.7
70°-80°	216.0	3.8
80°-90°	53.7	0.9
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°	2178.9	38.5
0°-40°	3315.6	58.5
0°-60°	4958.3	87.5
0°-90°	5663.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5663.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3069	3069	3069	3069	3069	
5°	3165	3127	3040	2957	2919	303
15°	3181	3061	2798	2574	2494	895
25°	2902	2715	2336	2082	1995	1330
35°	2261	2094	1757	1557	1503	1408
45°	1495	1387	1187	1070	1045	1156
55°	941	858	741	679	650	849
65°	566	496	416	366	371	565
75°	271	225	183	175	175	290
85°	58	46	38	42	42	71
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°	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0
2.5°	3119.0	3119.0	3123.1	3119.0	3119.0	3119.0	3114.8	3114.8	3110.7	3110.7	3102.3
5°	3164.8	3156.4	3164.8	3156.4	3156.4	3156.4	3152.3	3144.0	3139.8	3131.5	3127.3
7.5°	3185.6	3181.4	3181.4	3177.2	3177.2	3173.1	3168.9	3164.8	3148.1	3144.0	3131.5
10°	3198.1	3193.9	3193.9	3189.7	3181.4	3181.4	3173.1	3168.9	3148.1	3139.8	3123.1
12.5°	3193.9	3193.9	3193.9	3189.7	3177.2	3173.1	3164.8	3152.3	3135.6	3119.0	3102.3
15°	3181.4	3181.4	3173.1	3168.9	3156.4	3148.1	3144.0	3123.1	3106.5	3085.7	3060.7
17.5°	3139.8	3139.8	3135.6	3127.3	3114.8	3106.5	3098.2	3077.4	3060.7	3027.3	3002.3
20°	3085.7	3081.5	3077.4	3064.9	3052.3	3048.1	3035.6	3006.5	2985.7	2960.7	2927.4
22.5°	3006.5	3002.3	2998.2	2989.9	2969.1	2960.7	2952.4	2931.6	2894.1	2869.2	2827.4
25°	2902.5	2902.5	2894.1	2881.7	2860.7	2852.4	2839.9	2819.1	2785.8	2748.4	2715.1
27.5°	2781.7	2777.5	2765.0	2756.7	2740.1	2727.6	2706.8	2681.7	2648.4	2619.2	2577.6
30°	2627.6	2627.6	2619.2	2606.8	2586.0	2577.6	2561.0	2531.9	2498.6	2461.0	2431.9
32.5°	2452.7	2452.7	2440.2	2431.9	2419.4	2398.6	2394.4	2361.1	2332.0	2302.7	2269.4
35°	2261.1	2265.3	2257.0	2240.3	2219.5	2219.5	2211.2	2182.1	2148.8	2119.5	2094.5
37.5°	2069.6	2057.1	2052.9	2044.6	2032.1	2015.5	2007.2	1994.7	1965.5	1944.7	1907.2
40°	1857.2	1861.4	1853.1	1844.7	1840.6	1828.1	1823.9	1803.1	1782.3	1757.2	1740.6
42.5°	1665.7	1665.7	1665.7	1657.3	1649.0	1636.5	1632.4	1619.9	1594.9	1578.3	1553.2
45°	1494.9	1482.4	1482.4	1478.3	1474.1	1465.8	1453.3	1445.0	1428.3	1415.9	1386.6
47.5°	1328.4	1332.5	1328.4	1324.2	1311.7	1307.5	1303.4	1286.7	1270.1	1257.6	1236.8
50°	1182.6	1190.9	1182.6	1182.6	1174.3	1170.1	1161.8	1149.3	1136.8	1116.0	1095.2
52.5°	1061.9	1061.9	1057.7	1053.6	1041.1	1032.8	1028.6	1024.4	1003.5	986.9	970.2
55°	941.1	945.3	945.3	932.8	928.6	920.3	916.1	903.6	895.3	870.3	857.9
57.5°	837.1	832.9	837.1	828.6	820.3	812.0	807.8	799.5	787.0	770.4	753.7
60°	745.4	737.1	737.1	732.9	724.6	720.4	712.1	699.6	687.1	670.5	658.0
62.5°	653.8	649.7	645.4	641.2	632.9	628.7	624.6	612.1	599.6	587.1	574.6
65°	566.3	566.3	562.2	553.8	549.7	545.5	541.4	533.0	516.4	508.1	495.6
67.5°	487.3	483.1	483.1	474.8	466.4	462.2	462.2	453.8	441.4	428.9	420.5
70°	408.1	412.2	408.1	403.9	395.6	395.6	387.3	383.1	366.4	362.3	349.8
72.5°	337.3	337.3	333.2	333.2	324.8	320.7	320.7	312.4	304.0	295.7	287.4
75°	270.6	270.6	270.6	266.5	262.3	254.0	254.0	249.8	241.5	233.2	224.8
77.5°	212.4	208.2	208.2	204.0	199.9	195.7	195.7	191.5	183.2	179.1	170.7
80°	154.1	149.9	149.9	149.9	141.6	145.8	141.6	137.4	133.3	129.1	125.0
82.5°	100.0	104.2	104.2	100.0	95.8	95.8	95.8	91.6	91.6	87.4	83.2
85°	58.3	58.3	58.3	58.3	54.1	54.1	54.1	49.9	49.9	49.9	45.8
87.5°	25.0	25.0	25.0	25.0	25.0	25.0	20.8	20.8	20.8	20.8	20.8
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°	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0
2.5°	3102.3	3094.0	3089.9	3085.7	3085.7	3081.5	3077.4	3069.0	3069.0	3060.7	3056.6
5°	3119.0	3106.5	3098.2	3089.9	3085.7	3077.4	3069.0	3056.6	3052.3	3039.8	3027.3
7.5°	3123.1	3102.3	3094.0	3077.4	3069.0	3060.7	3044.0	3031.5	3014.8	3002.3	2985.7
10°	3106.5	3089.9	3069.0	3048.1	3044.0	3031.5	3006.5	2989.9	2969.1	2952.4	2927.4
12.5°	3081.5	3056.6	3035.6	3010.7	2998.2	2985.7	2960.7	2935.8	2906.6	2877.5	2852.4
15°	3039.8	3010.7	2981.5	2952.4	2935.8	2923.3	2894.1	2864.9	2835.8	2798.3	2773.3
17.5°	2977.4	2944.1	2915.0	2877.5	2860.7	2848.2	2810.8	2777.5	2740.1	2702.6	2677.5
20°	2898.3	2856.6	2823.3	2781.7	2769.2	2748.4	2710.9	2673.3	2631.7	2590.1	2561.0
22.5°	2794.2	2752.5	2715.1	2673.3	2652.5	2631.7	2594.3	2548.5	2506.9	2473.5	2444.3
25°	2673.3	2635.9	2590.1	2552.7	2527.7	2502.7	2461.0	2423.5	2386.1	2336.1	2306.9
27.5°	2540.2	2494.3	2461.0	2411.1	2386.1	2369.4	2323.7	2273.6	2240.3	2194.5	2161.2
30°	2390.2	2348.6	2311.1	2261.1	2236.2	2219.5	2177.9	2132.1	2098.7	2052.9	2019.6
32.5°	2232.0	2186.2	2140.4	2107.0	2077.9	2061.3	2015.5	1986.3	1944.7	1907.2	1869.7
35°	2061.3	2015.5	1982.2	1936.3	1919.6	1903.0	1865.5	1828.1	1790.6	1757.2	1728.1
37.5°	1878.0	1844.7	1807.3	1774.0	1761.5	1744.7	1699.0	1665.7	1636.5	1603.2	1578.3
40°	1699.0	1669.8	1644.9	1611.6	1590.8	1578.3	1544.9	1515.7	1482.4	1461.6	1436.7
42.5°	1536.5	1503.3	1478.3	1453.3	1432.5	1420.0	1390.9	1370.0	1345.0	1324.2	1295.1
45°	1365.8	1349.2	1320.0	1299.2	1286.7	1270.1	1249.3	1224.3	1203.5	1186.7	1165.9
47.5°	1216.0	1199.2	1178.4	1153.4	1145.1	1132.6	1111.8	1095.2	1078.5	1061.9	1041.1
50°	1078.5	1057.7	1041.1	1024.4	1016.0	1003.5	982.7	974.4	961.9	945.3	932.8
52.5°	953.6	936.9	920.3	899.5	895.3	887.0	874.5	857.9	845.4	837.1	828.6
55°	841.2	824.5	812.0	795.3	791.2	782.8	766.2	757.9	749.5	741.2	732.9
57.5°	741.2	724.6	707.9	699.6	691.3	683.0	678.8	666.3	658.0	653.8	645.4
60°	649.7	632.9	620.4	607.9	603.8	599.6	591.3	583.0	574.6	566.3	562.2
62.5°	562.2	545.5	537.2	528.9	520.5	520.5	512.2	503.9	495.6	491.4	483.1
65°	483.1	474.8	462.2	449.7	445.5	445.5	433.0	428.9	424.7	416.4	408.1
67.5°	408.1	399.7	387.3	383.1	378.9	374.8	370.6	362.3	354.0	349.8	341.5
70°	341.5	333.2	324.8	320.7	316.5	312.4	304.0	299.9	291.5	287.4	283.2
72.5°	274.8	270.6	262.3	258.1	254.0	249.8	245.6	241.5	233.2	229.0	224.8
75°	220.7	216.5	208.2	204.0	199.9	199.9	195.7	187.4	183.2	183.2	179.1
77.5°	166.6	162.4	158.3	154.1	149.9	149.9	145.8	141.6	137.4	137.4	133.3
80°	120.8	116.6	112.5	112.5	112.5	108.3	104.2	104.2	100.0	100.0	95.8
82.5°	79.1	79.1	74.9	74.9	74.9	70.7	70.7	66.6	66.6	66.6	66.6
85°	45.8	45.8	45.8	41.6	41.6	41.6	41.6	41.6	41.6	37.5	41.6
87.5°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	16.6	16.6	16.6
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°	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0
2.5°	3052.3	3048.1	3039.8	3039.8	3031.5	3031.5	3027.3	3023.2	3019.0	3014.8	3010.7
5°	3023.2	3006.5	2998.2	2994.0	2985.7	2981.5	2969.1	2960.7	2956.6	2948.2	2939.9
7.5°	2969.1	2952.4	2935.8	2931.6	2927.4	2910.8	2898.3	2885.8	2877.5	2869.2	2860.7
10°	2906.6	2890.0	2869.2	2860.7	2852.4	2831.6	2815.0	2802.5	2785.8	2769.2	2765.0
12.5°	2831.6	2806.6	2781.7	2773.3	2760.9	2740.1	2723.4	2702.6	2690.1	2669.2	2665.0
15°	2744.2	2715.1	2694.3	2673.3	2665.0	2644.2	2615.1	2598.4	2573.5	2565.1	2544.3
17.5°	2640.1	2610.9	2581.8	2573.5	2561.0	2531.9	2502.7	2481.8	2456.8	2444.3	2431.9
20°	2531.9	2494.3	2465.2	2456.8	2440.2	2415.2	2386.1	2365.3	2344.5	2319.5	2306.9
22.5°	2406.9	2365.3	2340.3	2319.5	2315.3	2286.1	2252.8	2236.2	2219.5	2198.7	2182.1
25°	2269.4	2232.0	2202.9	2186.2	2177.9	2152.9	2127.8	2107.0	2082.1	2069.6	2048.8
27.5°	2127.8	2102.9	2065.4	2048.8	2036.3	2015.5	1986.3	1973.9	1948.9	1932.1	1919.6
30°	1990.5	1953.1	1932.1	1911.3	1898.8	1878.0	1853.1	1840.6	1819.8	1803.1	1790.6
32.5°	1840.6	1815.6	1786.5	1778.1	1761.5	1740.6	1723.9	1703.1	1686.5	1669.8	1665.7
35°	1703.1	1669.8	1640.7	1632.4	1619.9	1599.1	1590.8	1578.3	1557.4	1553.2	1536.5
37.5°	1553.2	1536.5	1503.3	1490.8	1486.6	1470.0	1453.3	1445.0	1432.5	1420.0	1415.9
40°	1411.7	1390.9	1374.1	1361.6	1353.3	1340.8	1324.2	1320.0	1311.7	1295.1	1290.9
42.5°	1278.4	1257.6	1241.0	1236.8	1224.3	1211.8	1203.5	1190.9	1186.7	1182.6	1174.3
45°	1149.3	1136.8	1120.2	1116.0	1111.8	1095.2	1086.9	1078.5	1070.2	1066.1	1057.7
47.5°	1032.8	1020.3	1007.7	1003.5	995.2	991.0	978.5	974.4	961.9	957.7	953.6
50°	920.3	912.0	903.6	899.5	891.2	887.0	878.7	870.3	862.0	857.9	853.7
52.5°	820.3	812.0	803.6	799.5	795.3	787.0	778.7	770.4	766.2	762.0	757.9
55°	724.6	716.3	712.1	707.9	703.8	699.6	687.1	683.0	678.8	674.6	666.3
57.5°	637.1	628.7	620.4	620.4	616.3	612.1	603.8	595.5	595.5	587.1	578.8
60°	558.0	549.7	541.4	537.2	533.0	524.7	520.5	516.4	512.2	508.1	499.7
62.5°	474.8	470.6	462.2	462.2	453.8	449.7	445.5	441.4	437.2	428.9	424.7
65°	403.9	399.7	391.4	387.3	387.3	383.1	374.8	370.6	366.4	366.4	362.3
67.5°	337.3	333.2	324.8	320.7	320.7	316.5	312.4	312.4	308.2	304.0	308.2
70°	279.1	270.6	270.6	266.5	266.5	262.3	258.1	258.1	258.1	262.3	262.3
72.5°	220.7	216.5	212.4	212.4	212.4	212.4	208.2	208.2	212.4	216.5	216.5
75°	174.9	170.7	170.7	170.7	166.6	166.6	170.7	170.7	174.9	174.9	174.9
77.5°	129.1	129.1	129.1	129.1	129.1	129.1	133.3	133.3	137.4	137.4	137.4
80°	95.8	95.8	95.8	95.8	95.8	100.0	100.0	100.0	100.0	100.0	104.2
82.5°	66.6	66.6	66.6	66.6	66.6	66.6	66.6	70.7	70.7	70.7	70.7
85°	37.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
87.5°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
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: P585202

CATALOG NUMBER: HC880D010-HM86080827-81WWW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0
2.5°	3006.5	3006.5	3006.5	3010.7	3002.3	3002.3	3002.3	3002.3
5°	2935.8	2931.6	2927.4	2931.6	2923.3	2923.3	2919.1	2919.1
7.5°	2848.2	2844.1	2839.9	2839.9	2831.6	2831.6	2827.4	2823.3
10°	2752.5	2744.2	2748.4	2740.1	2735.9	2731.7	2727.6	2723.4
12.5°	2648.4	2640.1	2635.9	2627.6	2619.2	2615.1	2619.2	2610.9
15°	2536.0	2523.5	2519.4	2511.0	2502.7	2498.6	2498.6	2494.3
17.5°	2411.1	2402.7	2398.6	2390.2	2386.1	2377.8	2373.6	2369.4
20°	2294.4	2273.6	2277.8	2269.4	2265.3	2248.6	2248.6	2252.8
22.5°	2165.4	2152.9	2144.6	2136.3	2132.1	2123.7	2123.7	2119.5
25°	2036.3	2023.8	2019.6	2011.3	2007.2	1998.8	1994.7	1994.7
27.5°	1911.3	1894.7	1894.7	1886.3	1878.0	1873.9	1869.7	1865.5
30°	1778.1	1765.7	1761.5	1761.5	1757.2	1757.2	1744.7	1748.9
32.5°	1653.2	1644.9	1640.7	1632.4	1632.4	1628.2	1628.2	1615.7
35°	1528.2	1515.7	1519.9	1511.6	1507.4	1503.3	1507.4	1503.3
37.5°	1407.5	1399.2	1399.2	1390.9	1390.9	1386.6	1382.5	1390.9
40°	1286.7	1282.6	1278.4	1274.3	1278.4	1274.3	1265.9	1270.1
42.5°	1165.9	1165.9	1161.8	1161.8	1157.6	1157.6	1157.6	1157.6
45°	1057.7	1053.6	1053.6	1049.4	1049.4	1049.4	1049.4	1045.2
47.5°	949.4	945.3	945.3	945.3	941.1	941.1	936.9	941.1
50°	845.4	845.4	841.2	841.2	845.4	841.2	837.1	837.1
52.5°	749.5	749.5	745.4	745.4	741.2	737.1	741.2	741.2
55°	662.2	658.0	653.8	653.8	649.7	645.4	645.4	649.7
57.5°	578.8	574.6	570.5	570.5	562.2	558.0	558.0	558.0
60°	499.7	491.4	491.4	487.3	487.3	483.1	483.1	483.1
62.5°	424.7	420.5	420.5	420.5	420.5	416.4	416.4	416.4
65°	362.3	362.3	362.3	366.4	366.4	370.6	370.6	370.6
67.5°	312.4	316.5	316.5	316.5	320.7	320.7	320.7	316.5
70°	266.5	266.5	266.5	270.6	270.6	270.6	270.6	270.6
72.5°	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7
75°	174.9	179.1	179.1	179.1	174.9	179.1	179.1	174.9
77.5°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
80°	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2
82.5°	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
85°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
87.5°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
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)