

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: P585219

Luminaire Tested: **HC880D010-HM86080830-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585219
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-HM86080830-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5622.9 lumens
Efficiency: N/A
Efficacy: 80.3 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

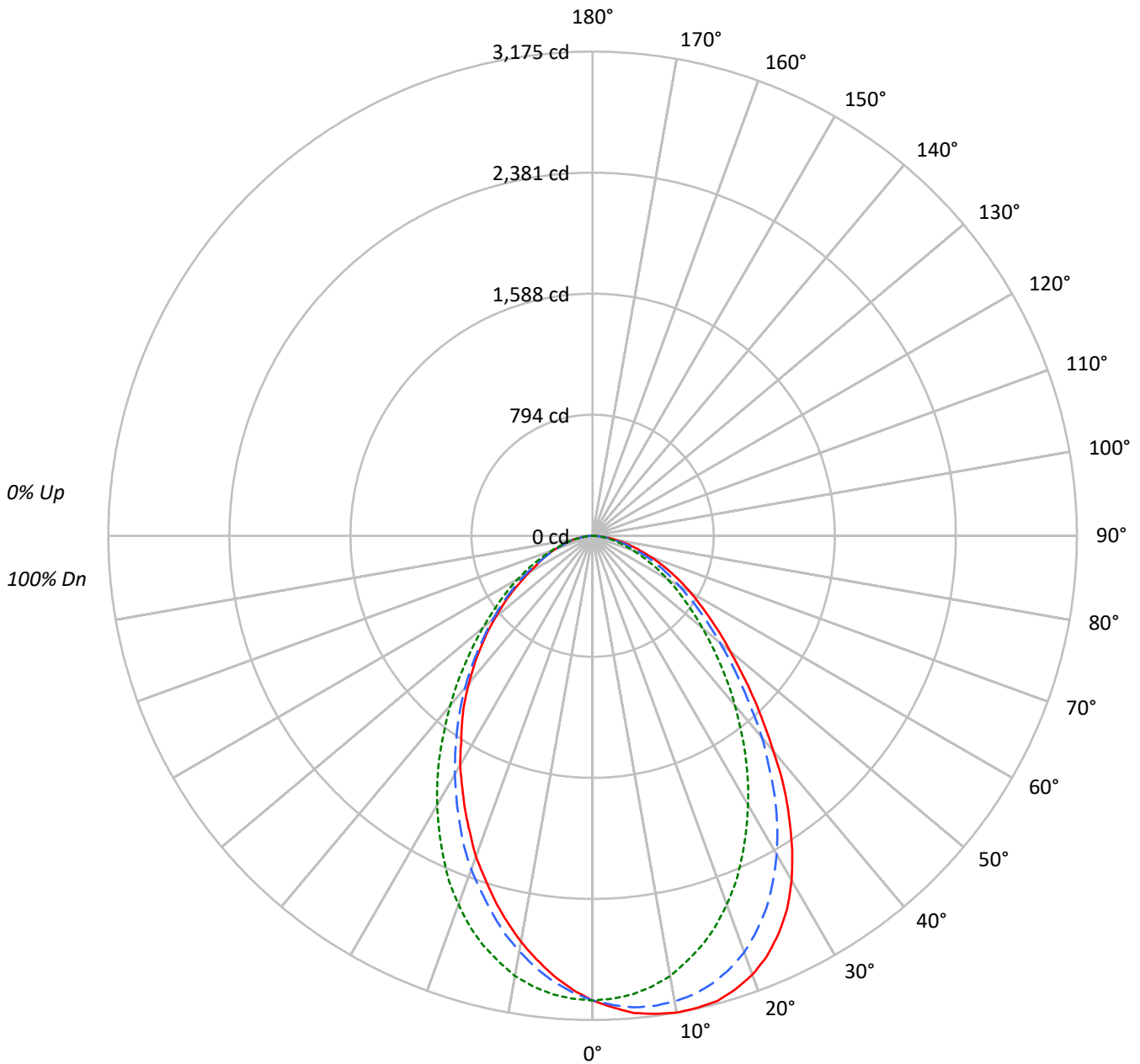
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	93952	93952	93952
5°	97252	93413	89702
10°	99413	91776	84658
15°	100826	88688	79054
20°	100523	84378	73391
25°	98037	78905	67375
30°	92880	72570	61824
35°	84500	65670	56180
40°	74220	58413	50756
45°	64720	51380	45249
50°	56320	45022	39865
55°	50229	39563	34671
60°	45638	34679	29572
65°	41028	30164	26844
70°	36524	25713	24226
75°	32014	21672	20683
80°	27152	17616	18344
85°	20485	13162	14648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.4	5.1
10°-20°	786.3	14.0
20°-30°	1091.4	19.4
30°-40°	1128.5	20.1
40°-50°	944.9	16.8
50°-60°	685.9	12.2
60°-70°	432.9	7.7
70°-80°	214.4	3.8
80°-90°	53.3	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°	2163.1	38.5
0°-40°	3291.6	58.5
0°-60°	4922.4	87.5
0°-90°	5622.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5622.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3047	3047	3047	3047	3047	
5°	3142	3105	3018	2935	2898	301
15°	3158	3038	2778	2555	2476	889
25°	2881	2695	2319	2067	1980	1320
35°	2245	2079	1744	1546	1492	1398
45°	1484	1377	1178	1062	1038	1148
55°	934	852	736	674	645	843
65°	562	492	413	364	368	561
75°	269	223	182	174	174	288
85°	58	45	37	41	41	70
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°	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8
2.5°	3096.4	3096.4	3100.6	3096.4	3096.4	3096.4	3092.2	3092.2	3088.1	3088.1	3079.9
5°	3141.8	3133.6	3141.8	3133.6	3133.6	3133.6	3129.4	3121.1	3117.1	3108.8	3104.6
7.5°	3162.5	3158.3	3158.3	3154.3	3154.3	3150.1	3146.0	3141.8	3125.3	3121.1	3108.8
10°	3174.9	3170.8	3170.8	3166.7	3158.3	3158.3	3150.1	3146.0	3125.3	3117.1	3100.6
12.5°	3170.8	3170.8	3170.8	3166.7	3154.3	3150.1	3141.8	3129.4	3112.9	3096.4	3079.9
15°	3158.3	3158.3	3150.1	3146.0	3133.6	3125.3	3121.1	3100.6	3084.0	3063.3	3038.5
17.5°	3117.1	3117.1	3112.9	3104.6	3092.2	3084.0	3075.7	3055.0	3038.5	3005.4	2980.6
20°	3063.3	3059.2	3055.0	3042.7	3030.3	3026.1	3013.8	2984.7	2964.1	2939.3	2906.3
22.5°	2984.7	2980.6	2976.5	2968.2	2947.5	2939.3	2931.0	2910.3	2873.1	2848.4	2807.0
25°	2881.4	2881.4	2873.1	2860.7	2840.0	2831.8	2819.4	2798.8	2765.6	2728.4	2695.3
27.5°	2761.6	2757.4	2745.0	2736.7	2720.2	2707.8	2687.1	2662.3	2629.2	2600.3	2559.0
30°	2608.5	2608.5	2600.3	2587.9	2567.2	2559.0	2542.4	2513.4	2480.4	2443.2	2414.3
32.5°	2435.0	2435.0	2422.6	2414.3	2401.9	2381.2	2377.0	2344.0	2315.1	2286.1	2253.0
35°	2244.7	2248.9	2240.7	2224.1	2203.5	2203.5	2195.1	2166.2	2133.2	2104.2	2079.4
37.5°	2054.6	2042.2	2038.1	2029.9	2017.4	2000.8	1992.6	1980.2	1951.3	1930.6	1893.4
40°	1843.8	1847.9	1839.6	1831.4	1827.3	1814.9	1810.7	1790.0	1769.4	1744.5	1728.0
42.5°	1653.7	1653.7	1653.7	1645.3	1637.0	1624.6	1620.5	1608.1	1583.3	1566.7	1542.0
45°	1484.1	1471.7	1471.7	1467.6	1463.4	1455.2	1442.7	1434.5	1418.0	1405.5	1376.6
47.5°	1318.7	1322.9	1318.7	1314.6	1302.2	1298.0	1294.0	1277.5	1260.9	1248.4	1227.8
50°	1174.0	1182.3	1174.0	1174.0	1165.8	1161.7	1153.4	1141.0	1128.6	1107.9	1087.2
52.5°	1054.2	1054.2	1050.0	1046.0	1033.5	1025.3	1021.1	1017.0	996.3	979.7	963.2
55°	934.3	938.5	938.5	926.0	921.8	913.6	909.5	897.1	888.8	864.0	851.6
57.5°	831.0	826.8	831.0	822.7	814.3	806.1	802.0	793.8	781.3	764.8	748.2
60°	740.0	731.7	731.7	727.5	719.3	715.2	706.9	694.5	682.1	665.6	653.1
62.5°	649.1	644.9	640.8	636.6	628.4	624.2	620.1	607.7	595.3	582.8	570.5
65°	562.3	562.3	558.1	549.8	545.6	541.6	537.4	529.1	512.6	504.4	491.9
67.5°	483.7	479.5	479.5	471.3	463.0	458.8	458.8	450.6	438.1	425.8	417.6
70°	405.1	409.3	405.1	401.0	392.7	392.7	384.5	380.4	363.8	359.7	347.3
72.5°	334.8	334.8	330.8	330.8	322.5	318.3	318.3	310.1	301.8	293.6	285.2
75°	268.7	268.7	268.7	264.6	260.4	252.2	252.2	248.0	239.8	231.5	223.3
77.5°	210.8	206.6	206.6	202.6	198.4	194.3	194.3	190.1	181.9	177.8	169.6
80°	152.9	148.9	148.9	148.9	140.5	144.7	140.5	136.4	132.3	128.2	124.0
82.5°	99.2	103.3	103.3	99.2	95.1	95.1	95.1	91.0	91.0	86.8	82.6
85°	57.9	57.9	57.9	57.9	53.7	53.7	53.7	49.6	49.6	49.6	45.4
87.5°	24.9	24.9	24.9	24.9	24.9	24.9	20.7	20.7	20.7	20.7	20.7
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°	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8
2.5°	3079.9	3071.5	3067.4	3063.3	3063.3	3059.2	3055.0	3046.8	3046.8	3038.5	3034.3
5°	3096.4	3084.0	3075.7	3067.4	3063.3	3055.0	3046.8	3034.3	3030.3	3017.8	3005.4
7.5°	3100.6	3079.9	3071.5	3055.0	3046.8	3038.5	3022.0	3009.6	2993.1	2980.6	2964.1
10°	3084.0	3067.4	3046.8	3026.1	3022.0	3009.6	2984.7	2968.2	2947.5	2931.0	2906.3
12.5°	3059.2	3034.3	3013.8	2988.9	2976.5	2964.1	2939.3	2914.5	2885.6	2856.6	2831.8
15°	3017.8	2988.9	2960.0	2931.0	2914.5	2902.1	2873.1	2844.2	2815.3	2778.1	2753.2
17.5°	2955.9	2922.8	2893.8	2856.6	2840.0	2827.7	2790.5	2757.4	2720.2	2683.0	2658.1
20°	2877.3	2835.9	2802.8	2761.6	2749.1	2728.4	2691.3	2654.1	2612.7	2571.3	2542.4
22.5°	2773.9	2732.6	2695.3	2654.1	2633.4	2612.7	2575.5	2530.1	2488.7	2455.6	2426.6
25°	2654.1	2616.9	2571.3	2534.1	2509.4	2484.5	2443.2	2405.9	2368.8	2319.1	2290.3
27.5°	2521.8	2476.3	2443.2	2393.6	2368.8	2352.2	2306.8	2257.2	2224.1	2178.6	2145.6
30°	2372.9	2331.6	2294.4	2244.7	2220.0	2203.5	2162.1	2116.7	2083.6	2038.1	2005.0
32.5°	2215.8	2170.4	2124.9	2091.8	2062.9	2046.4	2000.8	1972.0	1930.6	1893.4	1856.1
35°	2046.4	2000.8	1967.8	1922.4	1905.7	1889.2	1852.0	1814.9	1777.7	1744.5	1715.6
37.5°	1864.5	1831.4	1794.2	1761.1	1748.7	1732.1	1686.7	1653.7	1624.6	1591.6	1566.7
40°	1686.7	1657.7	1633.0	1599.9	1579.2	1566.7	1533.7	1504.8	1471.7	1451.1	1426.2
42.5°	1525.5	1492.4	1467.6	1442.7	1422.0	1409.7	1380.8	1360.1	1335.2	1314.6	1285.7
45°	1355.9	1339.4	1310.5	1289.8	1277.5	1260.9	1240.2	1215.4	1194.7	1178.2	1157.5
47.5°	1207.2	1190.5	1170.0	1145.1	1136.8	1124.4	1103.7	1087.2	1070.7	1054.2	1033.5
50°	1070.7	1050.0	1033.5	1017.0	1008.7	996.3	975.6	967.4	955.0	938.5	926.0
52.5°	946.7	930.2	913.6	892.9	888.8	880.6	868.1	851.6	839.2	831.0	822.7
55°	835.0	818.5	806.1	789.6	785.5	777.2	760.6	752.4	744.1	735.9	727.5
57.5°	735.9	719.3	702.8	694.5	686.3	678.0	673.8	661.4	653.1	649.1	640.8
60°	644.9	628.4	616.0	603.5	599.4	595.3	587.0	578.8	570.5	562.3	558.1
62.5°	558.1	541.6	533.3	525.1	516.7	516.7	508.5	500.2	491.9	487.8	479.5
65°	479.5	471.3	458.8	446.5	442.3	442.3	429.9	425.8	421.6	413.4	405.1
67.5°	405.1	396.9	384.5	380.4	376.2	372.0	367.9	359.7	351.3	347.3	339.0
70°	339.0	330.8	322.5	318.3	314.1	310.1	301.8	297.6	289.4	285.2	281.1
72.5°	272.9	268.7	260.4	256.3	252.2	248.0	243.9	239.8	231.5	227.3	223.3
75°	219.1	215.0	206.6	202.6	198.4	198.4	194.3	186.1	181.9	181.9	177.8
77.5°	165.4	161.2	157.1	152.9	148.9	148.9	144.7	140.5	136.4	136.4	132.3
80°	119.9	115.8	111.6	111.6	111.6	107.5	103.3	103.3	99.2	99.2	95.1
82.5°	78.6	78.6	74.4	74.4	74.4	70.3	70.3	66.1	66.1	66.1	66.1
85°	45.4	45.4	45.4	41.4	41.4	41.4	41.4	41.4	41.4	37.2	41.4
87.5°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	16.5	16.5	16.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8
2.5°	3030.3	3026.1	3017.8	3017.8	3009.6	3009.6	3005.4	3001.3	2997.1	2993.1	2988.9
5°	3001.3	2984.7	2976.5	2972.4	2964.1	2960.0	2947.5	2939.3	2935.2	2926.8	2918.6
7.5°	2947.5	2931.0	2914.5	2910.3	2906.3	2889.6	2877.3	2864.9	2856.6	2848.4	2840.0
10°	2885.6	2869.1	2848.4	2840.0	2831.8	2811.2	2794.6	2782.1	2765.6	2749.1	2745.0
12.5°	2811.2	2786.3	2761.6	2753.2	2740.9	2720.2	2703.7	2683.0	2670.6	2649.9	2645.8
15°	2724.4	2695.3	2674.7	2654.1	2645.8	2625.1	2596.2	2579.7	2554.8	2546.6	2525.9
17.5°	2620.9	2592.0	2563.1	2554.8	2542.4	2513.4	2484.5	2463.8	2439.1	2426.6	2414.3
20°	2513.4	2476.3	2447.3	2439.1	2422.6	2397.7	2368.8	2348.2	2327.5	2302.6	2290.3
22.5°	2389.4	2348.2	2323.3	2302.6	2298.5	2269.6	2236.5	2220.0	2203.5	2182.8	2166.2
25°	2253.0	2215.8	2186.9	2170.4	2162.1	2137.3	2112.5	2091.8	2067.0	2054.6	2033.9
27.5°	2112.5	2087.6	2050.4	2033.9	2021.5	2000.8	1972.0	1959.5	1934.7	1918.2	1905.7
30°	1976.1	1938.9	1918.2	1897.5	1885.2	1864.5	1839.6	1827.3	1806.6	1790.0	1777.7
32.5°	1827.3	1802.4	1773.5	1765.2	1748.7	1728.0	1711.4	1690.8	1674.2	1657.7	1653.7
35°	1690.8	1657.7	1628.8	1620.5	1608.1	1587.4	1579.2	1566.7	1546.2	1542.0	1525.5
37.5°	1542.0	1525.5	1492.4	1479.9	1475.8	1459.3	1442.7	1434.5	1422.0	1409.7	1405.5
40°	1401.5	1380.8	1364.3	1351.8	1343.6	1331.2	1314.6	1310.5	1302.2	1285.7	1281.5
42.5°	1269.1	1248.4	1231.9	1227.8	1215.4	1203.0	1194.7	1182.3	1178.2	1174.0	1165.8
45°	1141.0	1128.6	1112.1	1107.9	1103.7	1087.2	1079.0	1070.7	1062.5	1058.3	1050.0
47.5°	1025.3	1012.8	1000.4	996.3	988.1	983.9	971.5	967.4	955.0	950.8	946.7
50°	913.6	905.3	897.1	892.9	884.7	880.6	872.3	864.0	855.7	851.6	847.5
52.5°	814.3	806.1	797.8	793.8	789.6	781.3	773.1	764.8	760.6	756.6	752.4
55°	719.3	711.0	706.9	702.8	698.7	694.5	682.1	678.0	673.8	669.8	661.4
57.5°	632.5	624.2	616.0	616.0	611.9	607.7	599.4	591.2	591.2	582.8	574.6
60°	554.0	545.6	537.4	533.3	529.1	520.9	516.7	512.6	508.5	504.4	496.1
62.5°	471.3	467.2	458.8	458.8	450.6	446.5	442.3	438.1	434.1	425.8	421.6
65°	401.0	396.9	388.6	384.5	384.5	380.4	372.0	367.9	363.8	363.8	359.7
67.5°	334.8	330.8	322.5	318.3	318.3	314.1	310.1	310.1	305.9	301.8	305.9
70°	277.0	268.7	268.7	264.6	264.6	260.4	256.3	256.3	256.3	260.4	260.4
72.5°	219.1	215.0	210.8	210.8	210.8	210.8	206.6	206.6	210.8	215.0	215.0
75°	173.6	169.6	169.6	169.6	165.4	165.4	169.6	169.6	173.6	173.6	173.6
77.5°	128.2	128.2	128.2	128.2	128.2	128.2	132.3	132.3	136.4	136.4	136.4
80°	95.1	95.1	95.1	95.1	95.1	99.2	99.2	99.2	99.2	99.2	103.3
82.5°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	70.3	70.3	70.3	70.3
85°	37.2	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
87.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
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: P585219

CATALOG NUMBER: HC880D010-HM86080830-81WWW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8	3046.8
2.5°	2984.7	2984.7	2984.7	2988.9	2980.6	2980.6	2980.6	2980.6
5°	2914.5	2910.3	2906.3	2910.3	2902.1	2902.1	2897.9	2897.9
7.5°	2827.7	2823.5	2819.4	2819.4	2811.2	2811.2	2807.0	2802.8
10°	2732.6	2724.4	2728.4	2720.2	2716.0	2711.9	2707.8	2703.7
12.5°	2629.2	2620.9	2616.9	2608.5	2600.3	2596.2	2600.3	2592.0
15°	2517.6	2505.2	2501.1	2492.9	2484.5	2480.4	2480.4	2476.3
17.5°	2393.6	2385.4	2381.2	2372.9	2368.8	2360.5	2356.4	2352.2
20°	2277.9	2257.2	2261.4	2253.0	2248.9	2232.3	2232.3	2236.5
22.5°	2149.7	2137.3	2129.0	2120.7	2116.7	2108.3	2108.3	2104.2
25°	2021.5	2009.2	2005.0	1996.7	1992.6	1984.3	1980.2	1980.2
27.5°	1897.5	1881.0	1881.0	1872.7	1864.5	1860.3	1856.1	1852.0
30°	1765.2	1752.8	1748.7	1748.7	1744.5	1744.5	1732.1	1736.3
32.5°	1641.2	1633.0	1628.8	1620.5	1620.5	1616.4	1616.4	1604.0
35°	1517.2	1504.8	1509.0	1500.6	1496.5	1492.4	1496.5	1492.4
37.5°	1397.3	1389.0	1389.0	1380.8	1380.8	1376.6	1372.5	1380.8
40°	1277.5	1273.3	1269.1	1265.0	1269.1	1265.0	1256.8	1260.9
42.5°	1157.5	1157.5	1153.4	1153.4	1149.3	1149.3	1149.3	1149.3
45°	1050.0	1046.0	1046.0	1041.8	1041.8	1041.8	1041.8	1037.6
47.5°	942.5	938.5	938.5	938.5	934.3	934.3	930.2	934.3
50°	839.2	839.2	835.0	835.0	839.2	835.0	831.0	831.0
52.5°	744.1	744.1	740.0	740.0	735.9	731.7	735.9	735.9
55°	657.3	653.1	649.1	649.1	644.9	640.8	640.8	644.9
57.5°	574.6	570.5	566.3	566.3	558.1	554.0	554.0	554.0
60°	496.1	487.8	487.8	483.7	483.7	479.5	479.5	479.5
62.5°	421.6	417.6	417.6	417.6	417.6	413.4	413.4	413.4
65°	359.7	359.7	359.7	363.8	363.8	367.9	367.9	367.9
67.5°	310.1	314.1	314.1	314.1	318.3	318.3	318.3	314.1
70°	264.6	264.6	264.6	268.7	268.7	268.7	268.7	268.7
72.5°	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1
75°	173.6	177.8	177.8	177.8	173.6	177.8	177.8	173.6
77.5°	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4
80°	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3
82.5°	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
85°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
87.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
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)