

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

Report Number: P189470

Luminaire Tested: **ML4D09NFL92750AWW25-TL43R2GMWWB\_TL44S2GMWWB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P189470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189448)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML4D09NFL92750AWW25-TL43R2GMWWB\_TL44S2GMWWB  
Description: ML4 RECESSED ASYMMETRIC ACCENT DOWNLIGHT WITH LENSED ROUND (OR SQUARE)  
Light Source: CITIZEN 2700K  
CLU711  
Ballast/Driver: UNV-120-277 ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 646.5 lumens  
Efficiency: N/A  
Efficacy: 52.6 lumens/watt  
Spacing Criteria (0/90/45): 1.51 / 0.58 / 0.91  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

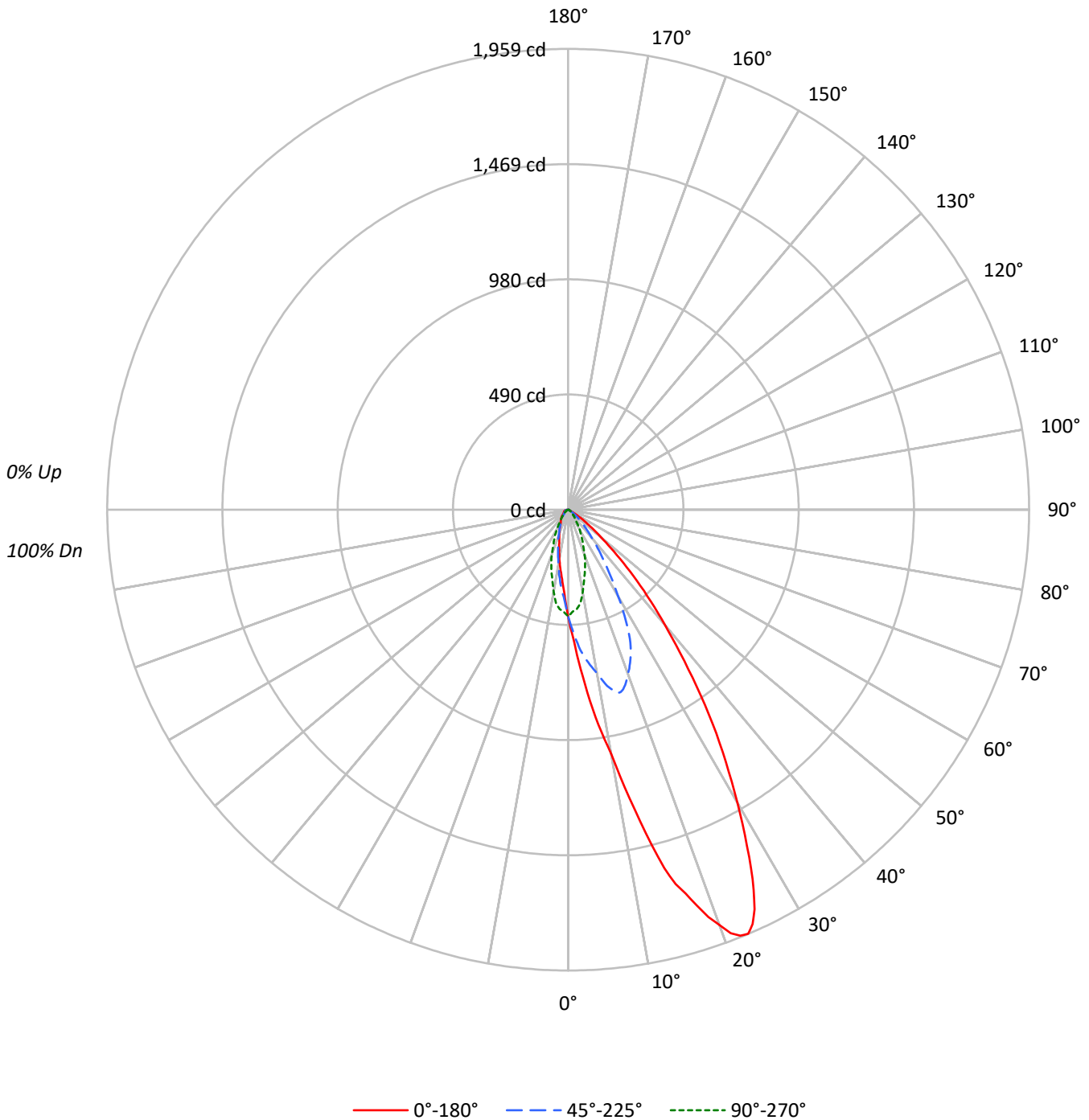
Input Watts (W): 12.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	89	79	73	68	87	78	72	68	77	71	67	75	70	66	73	69	66	64
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55
8	75	64	58	53	73	64	57	53	62	57	53	61	56	52	60	56	52	51
9	71	60	54	49	70	60	53	49	59	53	49	58	52	49	57	52	49	47
10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	7.0
10°-20°	146.4	22.6
20°-30°	202.3	31.3
30°-40°	140.6	21.7
40°-50°	67.9	10.5
50°-60°	25.5	3.9
60°-70°	10.0	1.5
70°-80°	6.4	1.0
80°-90°	2.5	0.4
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°	393.6	60.9
0°-40°	534.2	82.6
0°-60°	627.6	97.1
0°-90°	646.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	453	453	453	453	453	
5°	711	600	424	334	296	79
15°	1578	807	273	168	147	445
25°	1874	624	141	84	82	824
35°	1013	265	59	44	54	630
45°	372	95	28	26	36	293
55°	83	26	13	18	24	80
65°	6	5	6	14	18	9
75°	2	3	5	10	13	2
85°	1	1	2	4	4	1
90°	0	0	0	0	0	



TEST NUMBER: P189470

CATALOG NUMBER: ML4D09NFL92750AWW25-TL43R2GMWWB\_TL44S2GMWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3
2.5°	559.1	562.8	568.3	565.5	551.7	558.1	556.3	562.8	557.2	559.1	549.0
5°	710.8	700.7	702.5	702.5	685.0	685.9	685.9	684.1	679.5	674.0	652.0
7.5°	890.1	876.3	864.4	870.8	863.4	849.6	832.2	825.8	819.3	797.2	784.3
10°	1054.7	1079.5	1070.3	1069.5	1061.1	1042.8	1003.2	1004.1	984.8	953.6	942.5
12.5°	1304.8	1307.6	1298.4	1278.1	1257.0	1248.7	1214.7	1207.4	1167.8	1139.3	1097.0
15°	1577.9	1542.9	1542.1	1521.8	1463.8	1450.1	1423.4	1385.7	1336.0	1297.4	1214.7
16°	1655.1	1630.3	1619.3	1603.7	1550.3	1522.8	1492.4	1441.8	1390.3	1337.9	1254.2
17°	1706.7	1713.1	1689.2	1671.7	1634.0	1592.6	1551.3	1489.7	1437.3	1370.1	1292.0
18°	1769.2	1790.3	1748.0	1740.6	1714.0	1657.0	1600.9	1532.8	1477.7	1397.7	1329.6
19°	1830.8	1855.6	1806.9	1797.7	1780.2	1712.2	1639.5	1570.5	1509.0	1419.8	1360.0
20°	1878.6	1900.7	1856.5	1840.0	1827.1	1750.8	1666.2	1600.0	1532.0	1439.1	1381.2
21°	1928.2	1927.3	1896.1	1864.8	1846.4	1771.0	1684.5	1621.2	1543.9	1451.9	1391.3
22°	1953.1	1931.9	1916.3	1869.4	1837.2	1771.0	1690.1	1626.6	1542.1	1454.7	1383.0
23°	1958.6	1922.7	1915.4	1858.3	1806.9	1754.5	1682.7	1618.3	1524.6	1446.4	1357.2
24°	1928.2	1892.4	1890.6	1830.8	1761.8	1720.4	1660.7	1588.9	1492.4	1419.8	1314.9
25°	1874.0	1844.6	1838.2	1789.4	1708.5	1670.7	1619.3	1541.1	1446.4	1382.0	1262.5
26°	1798.6	1781.1	1766.4	1732.4	1648.7	1619.3	1560.4	1475.9	1388.4	1320.4	1203.7
27°	1712.2	1708.5	1692.9	1660.7	1587.1	1549.4	1490.5	1400.5	1322.3	1248.7	1143.0
28°	1619.3	1626.6	1601.8	1577.9	1518.1	1471.2	1408.7	1318.6	1248.7	1168.7	1081.4
29°	1528.3	1540.2	1509.0	1489.7	1445.5	1379.3	1322.3	1236.8	1171.4	1090.5	1018.8
30°	1438.1	1448.2	1417.0	1397.7	1363.7	1306.6	1234.0	1155.8	1093.3	1015.2	954.4
31°	1348.9	1351.7	1316.7	1292.0	1275.4	1217.4	1145.7	1077.7	1017.0	943.4	887.3
32°	1263.4	1255.2	1232.2	1200.0	1180.7	1129.1	1062.9	1004.1	942.5	874.5	819.3
33°	1180.7	1163.2	1151.3	1110.8	1085.1	1043.6	984.8	933.3	870.8	810.1	749.4
34°	1098.9	1075.9	1070.3	1027.1	992.2	962.7	912.1	863.4	800.0	747.5	682.3
35°	1013.4	992.2	988.5	949.9	907.6	888.3	843.2	794.5	732.9	685.9	616.0
36°	929.6	914.0	910.3	877.2	833.0	816.5	774.2	727.4	669.4	626.2	556.3
37°	848.8	840.4	833.0	809.2	766.9	748.5	709.9	663.0	610.5	566.5	503.0
38°	772.4	772.4	759.5	743.0	707.1	685.0	647.3	601.4	555.4	510.4	455.1
39°	701.6	707.1	690.6	678.6	649.1	623.4	587.6	542.5	502.0	457.0	412.0
40°	638.2	652.0	625.3	616.0	593.0	565.5	529.7	488.2	452.4	409.1	373.3
42.5°	496.6	501.1	483.7	468.9	456.1	431.3	400.0	372.4	343.9	312.7	287.8
45°	371.5	368.8	361.4	343.0	328.3	315.4	296.1	277.7	254.7	235.4	211.5
47.5°	261.2	264.8	257.5	251.9	232.6	227.1	214.3	203.2	184.8	169.2	149.8
50°	180.2	185.7	176.5	176.5	166.4	159.1	149.8	139.7	130.5	117.7	107.6
52.5°	126.0	126.9	122.3	122.3	116.7	110.3	103.9	97.4	91.0	82.8	76.3
55°	82.8	82.8	80.9	79.1	75.4	71.7	68.0	65.3	60.7	56.1	50.6
57.5°	48.7	49.7	47.8	46.9	44.2	43.2	40.5	39.5	36.8	34.1	31.2
60°	25.7	26.7	25.7	25.7	24.8	23.9	23.0	22.0	21.2	19.3	17.5
62.5°	12.9	13.8	12.9	13.8	13.8	11.9	11.9	11.9	11.1	11.1	10.1
65°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	5.5	5.5
67.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
70°	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3
2.5°	544.3	544.3	541.6	537.0	521.3	518.6	522.3	524.1	506.7	514.1	503.9
5°	653.8	639.0	637.2	629.8	618.9	609.6	601.4	599.6	579.3	573.7	558.1
7.5°	777.9	751.2	731.9	731.9	724.5	702.5	676.8	655.6	652.0	618.9	603.2
10°	914.0	884.6	851.5	834.9	804.6	775.2	745.7	707.1	695.1	657.5	635.4
12.5°	1051.0	1019.8	974.7	931.4	872.6	834.0	804.6	767.8	716.3	693.3	654.7
15°	1173.3	1113.5	1074.9	1007.8	945.2	892.0	845.1	807.3	736.6	703.4	653.8
16°	1210.1	1138.4	1092.4	1027.1	969.2	910.3	851.5	807.3	740.2	696.1	645.6
17°	1240.4	1159.5	1101.6	1039.9	987.5	921.4	852.4	798.1	741.1	683.2	635.4
18°	1265.3	1180.7	1108.0	1049.2	996.8	925.0	846.9	783.5	736.6	666.6	620.7
19°	1283.6	1199.1	1110.8	1051.0	994.0	917.7	836.7	764.1	722.7	647.3	602.3
20°	1292.9	1208.2	1110.8	1045.5	978.4	901.2	818.4	743.9	701.6	628.0	581.1
21°	1291.0	1210.1	1107.1	1030.8	952.6	875.4	800.0	723.7	673.1	607.8	559.1
22°	1276.3	1197.3	1097.9	1008.7	921.4	846.0	775.2	701.6	640.9	585.8	535.2
23°	1250.5	1173.3	1081.4	981.1	888.3	813.7	745.7	678.6	607.8	561.8	508.5
24°	1216.6	1135.6	1053.7	947.1	855.2	779.8	714.5	653.8	579.3	535.2	481.8
25°	1172.4	1086.9	1014.2	906.6	821.1	745.7	678.6	624.4	549.0	505.7	453.3
26°	1128.3	1030.8	961.8	867.1	784.3	710.8	640.9	590.3	518.6	473.6	424.8
27°	1071.3	972.9	903.9	818.4	746.7	674.0	601.4	551.7	489.2	439.5	396.3
28°	1009.7	914.0	841.4	766.9	704.4	633.5	560.0	509.4	458.8	405.6	366.9
29°	946.2	856.0	780.6	715.4	658.4	590.3	517.7	467.1	427.6	371.5	338.4
30°	880.9	798.1	721.8	668.5	606.0	542.5	475.4	426.6	393.5	340.2	309.9
31°	814.7	739.3	664.8	614.2	550.8	493.8	435.0	388.0	358.6	310.8	283.2
32°	747.5	681.4	611.5	559.1	495.6	445.1	396.3	353.1	322.8	287.8	258.4
33°	682.3	622.6	553.6	506.7	444.1	399.1	357.7	320.9	288.7	261.2	234.5
34°	620.7	566.5	505.7	458.0	399.1	357.7	322.8	292.4	258.4	238.2	211.5
35°	562.8	510.4	459.8	412.8	359.6	321.8	290.6	264.8	231.7	215.2	189.4
36°	510.4	458.0	414.7	373.3	325.5	291.5	262.0	240.0	208.7	191.3	170.1
37°	460.7	406.4	371.5	336.6	295.2	263.9	236.3	217.0	189.4	172.8	153.5
38°	417.5	366.0	333.7	299.8	268.5	240.0	213.3	195.8	171.0	155.4	138.9
39°	376.1	334.7	297.9	270.4	243.7	218.0	192.2	174.7	156.3	139.7	126.0
40°	339.3	302.5	267.6	247.4	220.7	197.7	174.7	156.3	142.6	125.1	114.0
42.5°	260.2	235.4	208.7	188.5	166.4	149.8	135.2	120.4	110.3	98.4	90.2
45°	192.2	174.7	159.1	140.7	126.0	113.1	104.8	94.7	83.7	78.1	70.8
47.5°	139.7	126.0	117.7	104.8	94.7	85.5	79.1	72.7	64.3	59.8	54.2
50°	100.2	91.0	83.7	76.3	70.8	64.3	57.9	53.4	47.8	44.2	40.5
52.5°	71.7	65.3	58.8	54.2	50.6	46.0	41.3	37.7	35.9	32.2	29.4
55°	47.8	44.2	39.5	36.8	33.1	30.4	28.5	25.7	23.9	23.0	21.2
57.5°	29.4	26.7	25.7	23.0	21.2	19.3	18.4	17.5	16.6	15.6	14.8
60°	16.6	15.6	14.8	14.8	13.8	12.9	11.9	11.9	11.1	10.1	10.1
62.5°	10.1	9.2	9.2	8.2	8.2	8.2	7.4	7.4	7.4	6.4	6.4
65°	5.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6	5.5	5.5	4.6
67.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
70°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7





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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
75°	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7	2.7
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	0.9	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3
2.5°	501.1	495.6	502.0	496.6	484.6	480.9	481.8	468.1	461.6	455.1	453.3
5°	549.9	541.6	530.6	520.5	507.6	500.2	488.2	476.3	466.2	466.2	448.7
7.5°	587.6	572.0	545.3	528.7	520.5	503.9	482.7	478.1	465.2	456.1	438.7
10°	608.8	583.0	557.2	534.2	517.7	492.9	475.4	460.7	445.1	419.3	411.0
12.5°	617.9	583.0	562.8	532.4	497.5	474.5	457.0	426.6	406.4	382.6	368.8
15°	610.5	572.0	538.8	505.7	466.2	443.2	416.5	386.2	365.1	350.3	325.5
16°	600.4	561.8	520.5	486.4	450.6	425.7	393.5	369.6	349.5	336.6	309.9
17°	587.6	547.1	499.3	465.2	433.1	407.3	372.4	354.0	333.7	320.9	295.2
18°	572.0	529.7	479.1	444.1	416.5	387.1	354.9	338.4	319.1	303.5	280.5
19°	554.5	509.4	461.6	424.8	400.0	367.8	337.4	320.9	302.5	285.0	265.7
20°	532.4	487.4	443.2	405.6	379.7	348.5	320.9	303.5	285.0	264.8	251.1
21°	509.4	463.4	423.9	387.1	359.6	329.2	304.3	285.0	267.6	246.4	235.4
22°	484.6	438.7	405.6	368.8	338.4	311.7	288.7	266.7	250.1	229.9	219.8
23°	459.8	414.7	385.3	350.3	317.2	292.4	272.2	248.2	232.6	215.2	204.1
24°	434.0	391.7	363.2	330.2	296.1	274.9	254.7	230.8	216.1	202.3	189.4
25°	408.3	368.8	340.2	308.0	276.8	256.6	236.3	215.2	201.4	189.4	174.7
26°	381.6	345.8	314.5	287.8	257.5	239.1	218.0	200.5	186.6	176.5	162.7
27°	355.9	321.8	289.7	264.8	239.1	222.5	200.5	185.7	173.8	165.5	151.7
28°	329.2	297.9	265.7	243.7	222.5	205.9	183.9	172.8	162.7	154.5	141.6
29°	304.3	274.9	244.6	224.4	205.9	189.4	170.1	160.9	150.8	142.6	131.5
30°	280.5	251.9	225.2	205.9	189.4	172.8	157.2	148.0	139.7	129.7	121.4
31°	256.6	230.8	206.9	189.4	172.8	159.1	145.3	136.1	127.8	117.7	111.2
32°	233.6	209.6	189.4	172.8	158.2	145.3	134.2	124.1	115.9	106.7	101.1
33°	211.5	189.4	172.8	159.1	143.4	133.3	123.2	113.1	105.8	96.6	92.0
34°	190.3	171.0	158.2	145.3	130.5	121.4	113.1	102.1	95.6	88.3	83.7
35°	171.0	155.4	143.4	131.5	117.7	110.3	102.1	92.0	86.5	80.9	75.4
36°	154.5	140.7	128.8	118.6	106.7	100.2	92.0	83.7	78.1	73.6	69.0
37°	139.7	126.9	115.9	106.7	96.6	91.0	82.8	76.3	71.7	68.0	62.5
38°	126.9	115.9	103.9	96.6	87.3	82.8	73.6	69.9	65.3	62.5	57.9
39°	114.0	103.9	93.7	86.5	80.0	74.5	67.2	63.5	59.8	57.0	53.4
40°	103.0	93.7	84.6	78.1	72.7	67.2	61.6	57.9	55.2	52.4	48.7
42.5°	80.9	74.5	68.0	62.5	57.9	53.4	50.6	46.9	44.2	41.3	39.5
45°	63.5	58.8	55.2	50.6	46.0	42.3	40.5	36.8	34.9	33.1	32.2
47.5°	48.7	45.0	42.3	39.5	35.9	34.1	31.2	29.4	27.6	27.6	25.7
50°	36.8	34.1	31.2	29.4	27.6	25.7	23.9	23.0	22.0	22.0	21.2
52.5°	27.6	24.8	23.9	22.0	21.2	20.2	19.3	18.4	17.5	16.6	16.6
55°	19.3	18.4	17.5	16.6	15.6	14.8	14.8	13.8	13.8	12.9	12.9
57.5°	13.8	12.9	12.9	11.9	11.9	11.1	11.1	11.1	10.1	11.1	10.1
60°	9.2	9.2	9.2	9.2	9.2	8.2	8.2	8.2	8.2	8.2	8.2
62.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.4
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	3.7	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.5
70°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.6	4.6
72.5°	2.7	2.7	2.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.6



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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
75°	2.7	2.7	2.7	2.7	2.7	3.7	3.7	3.7	3.7	3.7	3.7
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7	3.7	3.7
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: P189470

CATALOG NUMBER: ML4D09NFL92750AWW25-TL43R2GMWWB\_TL44S2GMWWB

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	453.3	453.3	453.3	453.3	453.3	453.3	453.3	453.3
2.5°	457.0	454.3	443.2	434.0	404.6	379.7	371.5	357.7
5°	447.8	433.1	427.6	423.9	362.3	333.7	304.3	296.1
7.5°	421.2	407.3	404.6	400.0	324.6	285.0	256.6	251.9
10°	389.0	378.9	366.9	354.9	282.3	237.3	218.8	214.3
12.5°	356.7	344.8	324.6	309.0	237.3	197.7	184.8	176.5
15°	317.2	298.8	284.2	273.1	200.5	168.3	153.5	147.1
16°	298.8	280.5	268.5	260.2	185.7	158.2	143.4	137.9
17°	280.5	263.0	253.8	246.4	174.7	148.0	133.3	130.5
18°	263.0	248.2	240.0	233.6	164.6	137.9	125.1	123.2
19°	247.4	234.5	227.1	218.8	155.4	128.8	117.7	117.7
20°	232.6	221.6	213.3	204.1	145.3	119.6	112.2	111.2
21°	218.8	209.6	199.5	187.6	136.1	111.2	105.8	105.8
22°	206.9	195.8	184.8	173.8	126.9	103.0	100.2	100.2
23°	194.0	183.9	172.0	160.9	117.7	95.6	94.7	93.7
24°	181.2	171.0	160.0	150.8	108.5	90.2	89.2	87.3
25°	169.2	158.2	148.0	140.7	100.2	83.7	82.8	81.8
26°	157.2	147.1	137.9	131.5	92.9	79.1	77.2	77.2
27°	145.3	135.2	127.8	123.2	86.5	74.5	71.7	72.7
28°	133.3	124.1	118.6	114.0	80.0	69.9	67.2	69.0
29°	122.3	114.9	110.3	105.8	74.5	65.3	63.5	65.3
30°	112.2	105.8	101.1	96.6	69.0	60.7	60.7	63.5
31°	102.1	97.4	92.0	87.3	63.5	56.1	57.9	61.6
32°	93.7	89.2	83.7	79.1	58.8	52.4	56.1	59.8
33°	86.5	82.8	76.3	71.7	54.2	49.7	54.2	57.9
34°	79.1	75.4	69.0	64.3	49.7	46.9	52.4	56.1
35°	72.7	68.0	62.5	58.8	45.0	44.2	50.6	54.2
36°	66.2	61.6	57.0	54.2	41.3	42.3	48.7	52.4
37°	59.8	56.1	52.4	50.6	38.6	40.5	46.9	50.6
38°	54.2	51.5	48.7	46.9	36.8	38.6	45.0	48.7
39°	49.7	46.9	45.0	43.2	34.9	36.8	42.3	46.9
40°	45.0	43.2	41.3	40.5	33.1	34.9	40.5	45.0
42.5°	36.8	35.9	34.9	33.1	28.5	30.4	35.9	40.5
45°	30.4	30.4	28.5	27.6	24.8	25.7	32.2	35.9
47.5°	24.8	23.9	23.0	23.0	21.2	23.0	27.6	30.4
50°	20.2	19.3	19.3	19.3	18.4	21.2	24.8	26.7
52.5°	15.6	15.6	15.6	15.6	16.6	19.3	23.0	24.8
55°	12.9	12.9	12.9	12.9	14.8	17.5	22.0	23.9
57.5°	11.1	10.1	10.1	10.1	12.9	16.6	20.2	22.0
60°	8.2	8.2	8.2	9.2	11.9	15.6	19.3	20.2
62.5°	7.4	7.4	7.4	7.4	11.1	14.8	17.5	19.3
65°	6.4	6.4	6.4	6.4	10.1	13.8	17.5	18.4
67.5°	5.5	5.5	5.5	5.5	9.2	12.9	16.6	17.5
70°	4.6	4.6	4.6	5.5	8.2	11.9	14.8	15.6
72.5°	4.6	4.6	4.6	5.5	7.4	11.1	13.8	14.8



TEST NUMBER: P189470

CATALOG NUMBER: ML4D09NFL92750AWW25-TL43R2GMWWB\_TL44S2GMWWB

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
75°	3.7	4.6	4.6	4.6	7.4	10.1	11.9	12.9
77.5°	3.7	3.7	3.7	3.7	6.4	8.2	11.1	11.9
80°	3.7	3.7	3.7	3.7	4.6	7.4	9.2	9.2
82.5°	2.7	2.7	2.7	2.7	3.7	5.5	6.4	6.4
85°	1.8	1.8	1.8	1.8	2.7	3.7	3.7	3.7
87.5°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)