

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: P300490

Luminaire Tested: **ML4D09\_27D2WE - TIR45SP15 - TL45R6GMWWB - TL46S6GMWWB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P300490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1902-156-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML4D09\_27D2WE - TIR45SP15 - TL45R6GMWWB - TL46S6GMWWB  
Description: ML4 2700K, 900LM DIM-TO-WARM, 15 DEG SP OPTIC, WITH ROUND/SQUARE ASYMM WW, LINEAR SPREAD LENS, MATTE WHITE FLANGE, WHITE LENS FRAME  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 420.0 lumens  
Efficiency: N/A  
Efficacy: 37.5 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.66 / 0.49  
Luminous Opening: Circular (Dia: 0.19' x H: 0')  
CIE Type: Direct

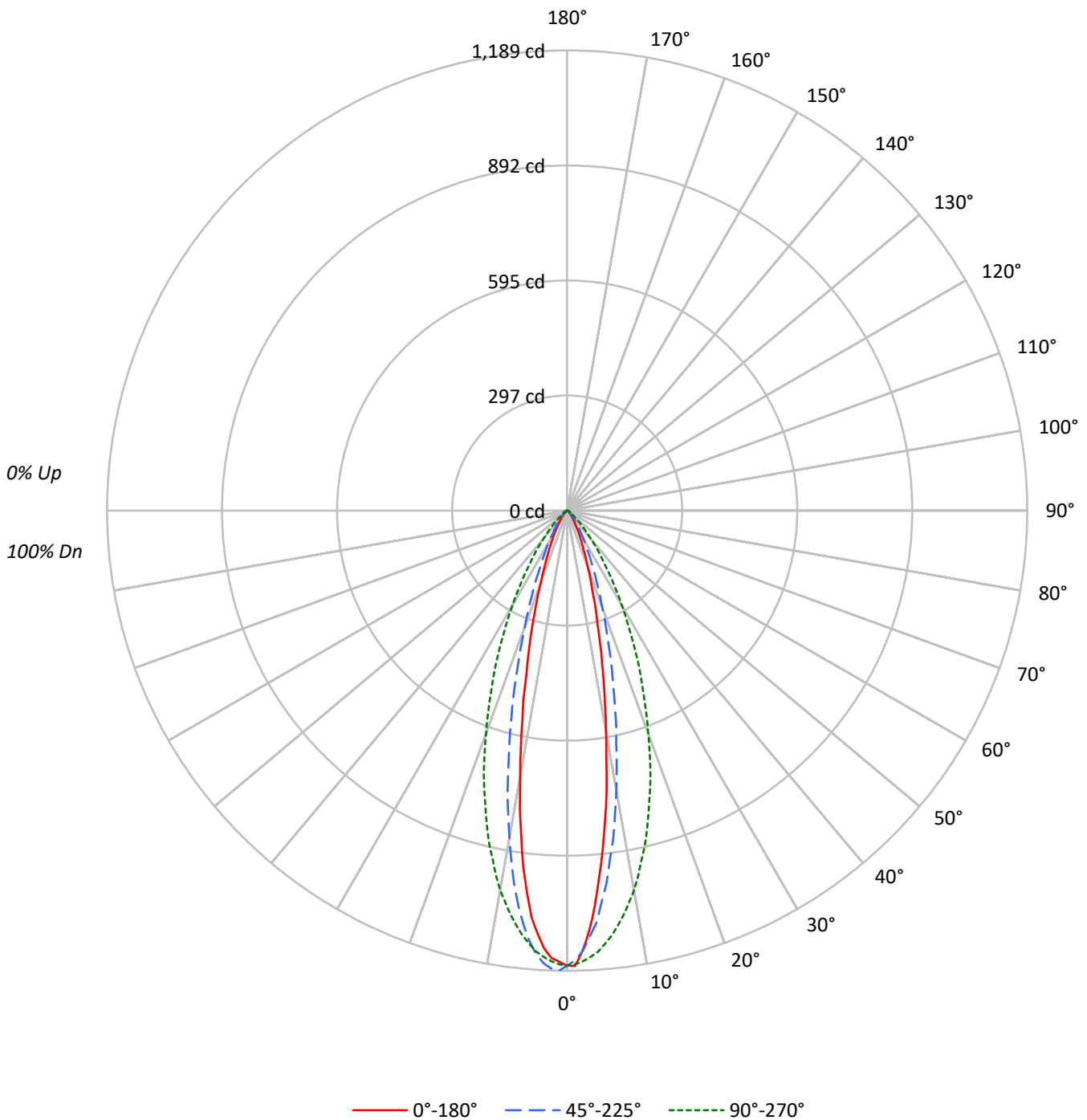
Input Watts (W): 11.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96					95				
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91					89				
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86					84				
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81					80				
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77					76				
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	79	76	74					72				
7	88	80	75	71	87	80	75	71	79	74	71	77	74	71	76	73	70					69				
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67					66				
9	82	74	69	65	81	73	68	65	72	68	65	72	67	65	71	67	64					63				
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62					61				

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

	0°	90°	180°
0°	458404	458404	458404
5°	372108	439806	412805
10°	229155	394223	276657
15°	123093	327266	156994
20°	65546	254262	82970
25°	36131	186677	46024
30°	20256	126939	26558
35°	12373	80903	15229
40°	8142	48853	9160
45°	5513	26463	5513
50°	4245	13342	3639
55°	4078	8156	3398
60°	3119	7017	3119
65°	2767	5535	2767
70°	2280	4559	2280
75°	1506	3012	3012
80°	2245	2245	2245
85°	4473	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	22.2
10°-20°	150.6	35.9
20°-30°	98.4	23.4
30°-40°	46.3	11.0
40°-50°	17.8	4.2
50°-60°	7.1	1.7
60°-70°	4.1	1.0
70°-80°	2.0	0.5
80°-90°	0.4	0.1
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°	342.2	81.5
0°-40°	388.5	92.5
0°-60°	413.5	98.4
0°-90°	420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1176	1176	1176	1176	1176	
5°	951	1017	1124	1118	1055	79
15°	305	459	811	559	389	87
25°	84	149	434	174	107	40
35°	26	47	170	51	32	17
45°	10	17	48	15	10	8
55°	6	7	12	6	5	5
65°	3	4	6	3	3	3
75°	1	2	2	2	2	1
85°	1	0	0	0	0	1
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°	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9
1°	1176.9	1159.9	1156.9	1153.9	1163.9	1160.9	1155.9	1149.9	1156.9	1161.9	1162.9
2°	1138.9	1124.9	1120.9	1118.9	1131.9	1127.9	1120.9	1120.9	1128.9	1134.9	1139.9
3°	1087.9	1078.9	1074.9	1078.9	1084.9	1083.9	1076.9	1081.9	1091.9	1096.9	1103.9
4°	1023.9	1014.9	1017.9	1017.9	1029.9	1028.9	1023.9	1031.9	1041.9	1059.9	1069.9
5°	950.9	951.9	946.9	949.9	960.9	965.9	962.9	973.9	987.9	1008.9	1016.9
6°	879.9	878.9	874.9	883.9	892.9	903.9	903.9	912.9	932.9	944.9	969.9
7°	805.9	791.9	802.9	804.9	822.9	830.9	834.9	846.9	865.9	885.9	907.9
8°	732.9	722.9	723.9	726.9	752.9	755.9	763.9	773.9	796.9	824.9	854.9
9°	647.9	647.9	653.9	664.9	679.9	683.9	691.9	704.9	734.9	758.9	790.9
10°	578.9	574.9	578.9	590.9	610.9	613.9	622.9	637.9	671.9	697.9	731.9
11°	514.9	508.9	513.9	520.9	543.9	549.9	556.9	574.9	606.9	637.9	670.9
12°	455.0	452.0	450.0	463.0	482.0	490.0	500.9	513.9	546.9	579.9	609.9
13°	401.0	399.0	403.0	407.0	422.0	436.0	443.0	463.0	488.0	520.9	562.9
14°	350.0	351.0	351.0	361.0	377.0	387.0	393.0	411.0	437.0	466.0	505.9
15°	305.0	309.0	308.0	318.0	331.0	338.0	348.0	365.0	387.0	421.0	459.0
17.5°	218.0	219.0	222.0	230.0	239.0	247.0	251.0	268.0	292.0	318.0	350.0
20°	158.0	157.0	159.0	168.0	173.0	179.0	184.0	198.0	216.0	238.0	263.0
22.5°	114.0	116.0	115.0	119.0	126.0	131.0	134.0	143.0	158.0	175.0	199.0
25°	84.0	84.0	85.0	88.0	92.0	96.0	99.0	106.0	117.0	131.0	149.0
27.5°	62.0	61.0	62.0	64.0	68.0	71.0	73.0	78.0	86.0	97.0	110.0
30°	45.0	46.0	46.0	48.0	51.0	52.0	54.0	59.0	65.0	72.0	83.0
32.5°	34.0	34.0	35.0	36.0	38.0	39.0	40.0	43.0	49.0	54.0	62.0
35°	26.0	26.0	26.0	28.0	29.0	30.0	31.0	33.0	36.0	41.0	47.0
37.5°	20.0	20.0	20.0	21.0	22.0	23.0	24.0	25.0	28.0	31.0	36.0
40°	16.0	16.0	16.0	17.0	17.0	18.0	19.0	20.0	22.0	24.0	27.0
42.5°	13.0	13.0	13.0	13.0	14.0	15.0	15.0	16.0	17.0	19.0	21.0
45°	10.0	10.0	11.0	11.0	11.0	12.0	12.0	13.0	14.0	15.0	17.0
47.5°	9.0	9.0	9.0	9.0	9.0	10.0	10.0	10.0	11.0	12.0	13.0
50°	7.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0	9.0	10.0	11.0
52.5°	7.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	8.0	8.0	9.0
55°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	7.0
57.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0
60°	4.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0
65°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0
67.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	1.0	0.0	1.0	1.0	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



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
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°	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9
1°	1162.9	1157.9	1160.9	1155.9	1173.9	1186.9	1170.9	1182.9	1181.9	1172.9	1166.9
2°	1140.9	1138.9	1141.9	1141.9	1158.9	1171.9	1158.9	1173.9	1174.9	1164.9	1162.9
3°	1112.9	1115.9	1120.9	1122.9	1139.9	1153.9	1142.9	1160.9	1164.9	1154.9	1154.9
4°	1075.9	1079.9	1090.9	1094.9	1114.9	1132.9	1123.9	1143.9	1150.9	1142.9	1141.9
5°	1032.9	1042.9	1056.9	1066.9	1089.9	1106.9	1101.9	1124.9	1131.9	1123.9	1126.9
6°	983.9	998.9	1016.9	1034.9	1056.9	1074.9	1074.9	1101.9	1110.9	1103.9	1106.9
7°	934.9	953.9	975.9	996.9	1019.9	1040.9	1045.9	1072.9	1084.9	1078.9	1084.9
8°	878.9	905.9	931.9	958.9	984.9	1004.9	1010.9	1042.9	1058.9	1053.9	1057.9
9°	823.9	853.9	884.9	915.9	941.9	964.9	975.9	1009.9	1028.9	1023.9	1028.9
10°	766.9	799.9	836.9	872.9	895.9	922.9	940.9	975.9	996.9	995.9	998.9
11°	708.9	745.9	786.9	826.9	853.9	878.9	900.9	940.9	961.9	961.9	965.9
12°	650.9	692.9	736.9	774.9	806.9	839.9	858.9	903.9	927.9	922.9	928.9
13°	600.9	639.9	686.9	732.9	763.9	793.9	824.9	866.9	887.9	890.9	893.9
14°	546.9	588.9	636.9	681.9	717.9	746.9	780.9	827.9	853.9	850.9	853.9
15°	495.9	539.9	587.9	638.9	668.9	699.9	738.9	784.9	815.9	810.9	812.9
17.5°	385.0	428.0	480.0	530.9	559.9	590.9	633.9	684.9	712.9	715.9	714.9
20°	296.0	335.0	381.0	429.0	458.0	489.0	535.9	585.9	615.9	612.9	612.9
22.5°	226.0	257.0	299.0	344.0	375.0	399.0	445.0	493.9	522.9	517.9	513.9
25°	170.0	197.0	232.0	271.0	297.0	322.0	361.0	405.0	433.0	434.0	428.0
27.5°	128.0	150.0	178.0	210.0	234.0	253.0	289.0	329.0	354.0	352.0	345.0
30°	96.0	114.0	135.0	163.0	179.0	197.0	230.0	264.0	283.0	282.0	275.0
32.5°	73.0	86.0	103.0	125.0	140.0	152.0	179.0	207.0	222.0	222.0	214.0
35°	55.0	65.0	78.0	95.0	105.0	117.0	139.0	160.0	174.0	170.0	164.0
37.5°	42.0	50.0	59.0	72.0	80.0	88.0	106.0	122.0	132.0	130.0	124.0
40°	31.0	37.0	44.0	53.0	59.0	65.0	78.0	91.0	98.0	96.0	91.0
42.5°	24.0	28.0	34.0	40.0	44.0	48.0	56.0	66.0	71.0	70.0	66.0
45°	19.0	21.0	25.0	29.0	32.0	35.0	40.0	46.0	49.0	48.0	46.0
47.5°	15.0	17.0	19.0	22.0	23.0	25.0	28.0	31.0	34.0	33.0	31.0
50°	12.0	13.0	14.0	16.0	17.0	18.0	20.0	21.0	22.0	22.0	21.0
52.5°	9.0	10.0	11.0	12.0	13.0	13.0	14.0	15.0	16.0	15.0	15.0
55°	8.0	8.0	9.0	10.0	10.0	11.0	11.0	12.0	12.0	12.0	11.0
57.5°	7.0	7.0	8.0	8.0	9.0	9.0	10.0	10.0	11.0	10.0	10.0
60°	6.0	6.0	6.0	7.0	7.0	8.0	8.0	9.0	9.0	9.0	8.0
62.5°	5.0	5.0	6.0	6.0	7.0	7.0	7.0	8.0	8.0	8.0	7.0
65°	4.0	4.0	5.0	5.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	6.0	5.0	5.0
70°	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	5.0	4.0	4.0
72.5°	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0
77.5°	1.0	1.0	1.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
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°	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9
1°	1177.9	1186.9	1180.9	1162.9	1164.9	1182.9	1181.9	1164.9	1188.9	1185.9	1180.9
2°	1173.9	1182.9	1176.9	1158.9	1160.9	1179.9	1177.9	1160.9	1183.9	1180.9	1175.9
3°	1166.9	1174.9	1168.9	1149.9	1151.9	1169.9	1167.9	1147.9	1170.9	1166.9	1158.9
4°	1152.9	1163.9	1155.9	1136.9	1136.9	1153.9	1147.9	1127.9	1148.9	1142.9	1131.9
5°	1137.9	1146.9	1136.9	1116.9	1117.9	1130.9	1124.9	1101.9	1117.9	1110.9	1092.9
6°	1118.9	1124.9	1116.9	1093.9	1092.9	1104.9	1092.9	1067.9	1076.9	1066.9	1050.9
7°	1091.9	1098.9	1087.9	1063.9	1062.9	1070.9	1053.9	1023.9	1029.9	1013.9	990.9
8°	1065.9	1069.9	1055.9	1030.9	1026.9	1029.9	1010.9	983.9	978.9	961.9	932.9
9°	1036.9	1037.9	1020.9	994.9	989.9	989.9	964.9	926.9	918.9	898.9	870.9
10°	1003.9	1003.9	985.9	953.9	945.9	940.9	909.9	866.9	858.9	829.9	799.9
11°	967.9	965.9	943.9	912.9	903.9	890.9	860.9	809.9	798.9	770.9	731.9
12°	934.9	928.9	899.9	874.9	855.9	839.9	803.9	755.9	739.9	701.9	670.9
13°	892.9	889.9	854.9	824.9	811.9	784.9	748.9	692.9	673.9	637.9	610.9
14°	853.9	844.9	811.9	776.9	757.9	732.9	689.9	640.9	614.9	581.9	540.9
15°	813.9	797.9	761.9	728.9	711.9	675.9	640.9	587.9	558.9	521.9	482.0
17.5°	705.9	685.9	647.9	607.9	592.9	552.9	500.9	456.0	427.0	392.0	360.0
20°	599.9	576.9	529.9	497.9	474.0	434.0	391.0	348.0	320.0	295.0	266.0
22.5°	497.9	474.0	428.0	397.0	371.0	334.0	297.0	261.0	237.0	216.0	196.0
25°	408.0	381.0	337.0	307.0	287.0	257.0	224.0	192.0	174.0	158.0	143.0
27.5°	329.0	297.0	259.0	236.0	220.0	193.0	164.0	142.0	128.0	116.0	104.0
30°	256.0	229.0	198.0	177.0	163.0	141.0	122.0	104.0	95.0	85.0	76.0
32.5°	195.0	174.0	147.0	133.0	121.0	105.0	89.0	77.0	69.0	63.0	56.0
35°	150.0	132.0	110.0	97.0	90.0	76.0	66.0	56.0	51.0	46.0	41.0
37.5°	112.0	97.0	81.0	72.0	66.0	57.0	48.0	42.0	37.0	34.0	31.0
40°	82.0	71.0	59.0	53.0	48.0	41.0	36.0	31.0	28.0	25.0	23.0
42.5°	58.0	51.0	43.0	39.0	36.0	30.0	26.0	23.0	20.0	19.0	17.0
45°	42.0	37.0	31.0	28.0	26.0	22.0	19.0	17.0	15.0	14.0	13.0
47.5°	29.0	26.0	22.0	20.0	19.0	16.0	14.0	13.0	12.0	11.0	10.0
50°	20.0	18.0	16.0	15.0	14.0	12.0	11.0	10.0	9.0	9.0	8.0
52.5°	14.0	13.0	12.0	11.0	11.0	10.0	9.0	8.0	8.0	7.0	6.0
55°	11.0	10.0	9.0	9.0	8.0	8.0	7.0	7.0	6.0	6.0	5.0
57.5°	9.0	8.0	8.0	7.0	7.0	6.0	6.0	5.0	5.0	5.0	5.0
60°	8.0	7.0	6.0	6.0	6.0	5.0	5.0	5.0	4.0	4.0	4.0
62.5°	6.0	6.0	6.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0	3.0
65°	6.0	5.0	5.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0
67.5°	5.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0
70°	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	2.0
72.5°	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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



TEST NUMBER: P300490

CATALOG NUMBER: ML4D09\_27D2WE - TIR45SP15 - TL45R6GMWWB - TL46S6GMWWB

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
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: P300490

CATALOG NUMBER: ML4D09\_27D2WE - TIR45SP15 - TL45R6GMWWB - TL46S6GMWWB

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9	1175.9
1°	1175.9	1175.9	1183.9	1184.9	1167.9	1182.9	1177.9	1165.9
2°	1170.9	1167.9	1176.9	1176.9	1158.9	1175.9	1167.9	1156.9
3°	1150.9	1147.9	1155.9	1156.9	1137.9	1150.9	1146.9	1132.9
4°	1120.9	1117.9	1123.9	1122.9	1103.9	1117.9	1112.9	1094.9
5°	1082.9	1072.9	1081.9	1077.9	1058.9	1070.9	1063.9	1054.9
6°	1038.9	1021.9	1025.9	1020.9	1002.9	1006.9	1000.9	992.9
7°	975.9	963.9	962.9	961.9	940.9	947.9	932.9	928.9
8°	914.9	896.9	893.9	892.9	864.9	876.9	867.9	850.9
9°	844.9	825.9	827.9	813.9	794.9	794.9	792.9	780.9
10°	779.9	759.9	755.9	741.9	716.9	726.9	711.9	698.9
11°	711.9	687.9	683.9	669.9	652.9	651.9	634.9	628.9
12°	642.9	616.9	613.9	606.9	583.9	575.9	566.9	557.9
13°	581.9	550.9	547.9	534.9	516.9	517.9	501.9	501.9
14°	517.9	495.9	488.0	475.0	462.0	453.0	448.0	436.0
15°	465.0	440.0	432.0	421.0	405.0	404.0	392.0	389.0
17.5°	335.0	321.0	315.0	309.0	295.0	292.0	284.0	281.0
20°	247.0	234.0	227.0	221.0	212.0	208.0	204.0	200.0
22.5°	180.0	171.0	166.0	162.0	155.0	153.0	149.0	147.0
25°	134.0	126.0	121.0	119.0	112.0	111.0	109.0	107.0
27.5°	97.0	92.0	91.0	87.0	84.0	82.0	81.0	79.0
30°	72.0	67.0	66.0	64.0	62.0	61.0	60.0	59.0
32.5°	52.0	50.0	49.0	47.0	46.0	45.0	43.0	42.0
35°	39.0	36.0	36.0	35.0	33.0	33.0	32.0	32.0
37.5°	29.0	27.0	26.0	26.0	25.0	25.0	24.0	23.0
40°	21.0	20.0	20.0	19.0	19.0	18.0	18.0	18.0
42.5°	16.0	15.0	15.0	15.0	14.0	14.0	14.0	14.0
45°	12.0	12.0	11.0	11.0	11.0	11.0	10.0	10.0
47.5°	10.0	9.0	9.0	9.0	8.0	9.0	8.0	8.0
50°	8.0	7.0	7.0	7.0	7.0	7.0	7.0	6.0
52.5°	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
55°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
57.5°	5.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
60°	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0
62.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
65°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
67.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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



TEST NUMBER: P300490

CATALOG NUMBER: ML4D09\_27D2WE - TIR45SP15 - TL45R6GMWWB - TL46S6GMWWB

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)