

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: P300489

Luminaire Tested: **ML4D09_27D2WE - TIR45SP15 - TL45R6GMWBB - TL46S6GMWBB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P300489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1902-156-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML4D09_27D2WE - TIR45SP15 - TL45R6GMWBB - TL46S6GMWBB
Description: ML4 2700K, 900LM DIM-TO-WARM, 15 DEG SP OPTIC, WITH ROUND/SQUARE ASYMM WW, LINEAR SPREAD LENS, MATTE WHITE FLANGE, BLACK LENS FRAME
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 413.0 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.65 / 0.49
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

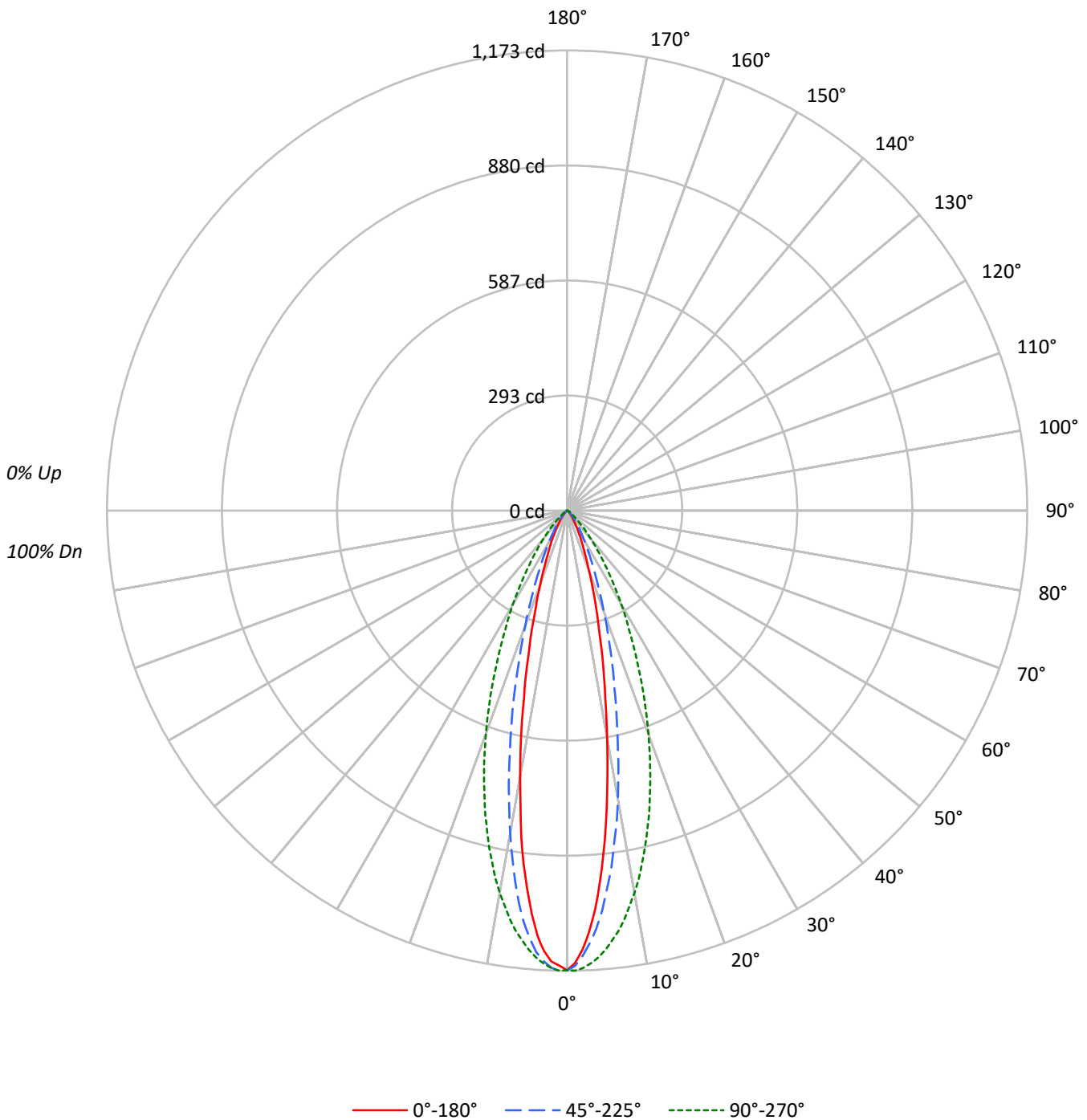
Input Watts (W): 11.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77
6	93	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	74	71	70
8	86	77	72	69	85	77	72	69	76	72	68	75	71	68	74	71	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	71	66	63	79	71	66	63	70	66	63	69	66	63	69	65	63	61

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	456806	456806	456806
5°	373321	439767	404196
10°	231728	391492	273648
15°	125797	324966	154008
20°	67123	251151	83302
25°	36948	180053	46411
30°	20706	125004	26513
35°	12373	79856	15229
40°	7633	47785	8651
45°	4962	25360	5513
50°	3639	12129	3639
55°	2719	6797	2719
60°	2339	5458	2339
65°	1845	4612	1845
70°	1140	3419	2280
75°	0	1506	1506
80°	0	0	2245
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	22.5
10°-20°	150.1	36.3
20°-30°	97.7	23.7
30°-40°	45.8	11.1
40°-50°	17.1	4.1
50°-60°	6.0	1.5
60°-70°	2.8	0.7
70°-80°	0.7	0.2
80°-90°	0.0	0.0
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°	340.6	82.5
0°-40°	386.4	93.6
0°-60°	409.5	99.2
0°-90°	413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	413.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1172	1172	1172	1172	1172	
5°	954	1023	1124	1094	1033	79
15°	312	466	805	543	382	89
25°	86	153	419	170	108	41
35°	26	48	168	50	32	17
45°	9	16	46	15	10	8
55°	4	6	10	5	4	4
65°	2	2	5	2	2	2
75°	0	0	1	1	1	0
85°	0	0	0	0	0	0
90°	0	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°	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8
1°	1153.8	1168.8	1148.8	1155.8	1159.8	1151.8	1159.8	1149.8	1155.8	1149.8	1160.8
2°	1119.9	1132.8	1117.9	1123.8	1129.8	1123.8	1131.8	1121.9	1131.8	1126.8	1135.8
3°	1074.9	1091.9	1072.9	1080.9	1087.9	1084.9	1088.9	1085.9	1094.9	1093.9	1103.9
4°	1020.0	1030.9	1017.0	1024.0	1030.9	1032.9	1041.9	1037.9	1048.9	1054.9	1067.9
5°	954.0	969.0	952.0	960.0	971.0	970.0	979.0	982.0	1000.0	1010.0	1023.0
6°	883.1	893.1	875.1	894.1	904.1	908.1	916.1	922.1	940.0	955.0	971.0
7°	808.2	818.2	810.2	817.2	837.1	833.1	848.1	854.1	877.1	896.1	920.1
8°	732.3	736.2	734.2	750.2	756.2	767.2	777.2	789.2	806.2	838.1	858.1
9°	657.3	670.3	663.3	675.3	688.3	689.3	706.3	717.3	744.2	773.2	807.2
10°	585.4	597.4	587.4	607.4	620.4	627.4	636.3	652.3	679.3	715.3	746.2
11°	518.5	526.5	524.5	533.5	555.4	565.4	569.4	593.4	614.4	647.3	684.3
12°	460.5	471.5	470.5	475.5	492.5	502.5	519.5	531.5	559.4	591.4	623.4
13°	408.6	415.6	411.6	423.6	440.5	447.5	460.5	469.5	501.5	531.5	565.4
14°	361.6	365.6	362.6	370.6	386.6	396.6	406.6	417.6	451.5	480.5	515.5
15°	311.7	320.7	318.7	326.7	342.6	350.6	358.6	374.6	402.6	432.6	465.5
17.5°	228.8	230.8	230.8	238.8	249.7	253.7	263.7	277.7	295.7	330.7	360.6
20°	161.8	166.8	167.8	171.8	179.8	186.8	192.8	202.8	218.8	246.7	273.7
22.5°	117.9	120.9	120.9	123.9	129.9	133.9	138.9	148.8	162.8	183.8	204.8
25°	85.9	86.9	88.9	90.9	95.9	97.9	101.9	108.9	119.9	135.9	152.8
27.5°	62.9	63.9	63.9	66.9	69.9	72.9	74.9	79.9	87.9	100.9	113.9
30°	46.0	47.0	47.0	48.9	50.9	52.9	54.9	59.9	65.9	74.9	84.9
32.5°	34.0	35.0	35.0	36.0	38.0	40.0	41.0	45.0	48.9	56.9	63.9
35°	26.0	27.0	27.0	27.0	29.0	30.0	31.0	33.0	37.0	43.0	48.0
37.5°	20.0	20.0	20.0	21.0	22.0	23.0	23.0	25.0	28.0	32.0	36.0
40°	15.0	15.0	16.0	16.0	17.0	17.0	18.0	19.0	21.0	24.0	28.0
42.5°	12.0	12.0	12.0	12.0	13.0	14.0	14.0	15.0	16.0	19.0	21.0
45°	9.0	10.0	10.0	10.0	11.0	11.0	11.0	12.0	13.0	14.0	16.0
47.5°	8.0	8.0	8.0	8.0	8.0	9.0	9.0	9.0	10.0	11.0	12.0
50°	6.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	8.0	9.0	9.0
52.5°	5.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0	7.0	7.0
55°	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	6.0
57.5°	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
60°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	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°	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8
1°	1173.8	1160.8	1162.8	1177.8	1144.8	1147.8	1164.8	1167.8	1163.8	1172.8	1185.8
2°	1153.8	1143.8	1148.8	1164.8	1131.8	1134.8	1155.8	1158.8	1157.8	1166.8	1180.8
3°	1124.8	1118.9	1124.8	1146.8	1117.9	1117.9	1141.8	1146.8	1145.8	1155.8	1171.8
4°	1091.9	1090.9	1100.9	1120.9	1094.9	1096.9	1122.9	1129.8	1131.8	1141.8	1157.8
5°	1051.9	1051.9	1067.9	1092.9	1067.9	1070.9	1101.9	1108.9	1114.9	1123.8	1139.8
6°	1002.0	1008.0	1031.9	1060.9	1036.9	1045.9	1074.9	1086.9	1091.9	1100.9	1119.9
7°	955.0	966.0	989.0	1023.0	1001.0	1014.0	1045.9	1058.9	1065.9	1078.9	1096.9
8°	895.1	919.1	947.0	980.0	966.0	977.0	1013.0	1026.9	1040.9	1050.9	1067.9
9°	842.1	867.1	901.1	939.0	923.1	939.0	978.0	1000.0	1009.0	1019.0	1041.9
10°	787.2	816.2	850.1	893.1	883.1	897.1	941.0	966.0	978.0	989.0	1008.0
11°	731.3	762.2	801.2	845.1	841.1	855.1	902.1	928.1	944.0	957.0	972.0
12°	668.3	707.3	750.2	800.2	794.2	819.2	862.1	891.1	906.1	918.1	933.0
13°	623.4	657.3	699.3	751.2	753.2	775.2	822.2	849.1	869.1	882.1	896.1
14°	566.4	604.4	648.3	706.3	705.3	728.3	781.2	814.2	832.1	842.1	862.1
15°	512.5	553.4	603.4	657.3	668.3	686.3	740.2	774.2	791.2	805.2	817.2
17.5°	401.6	443.5	493.5	545.4	556.4	580.4	636.3	673.3	694.3	704.3	709.3
20°	306.7	343.6	390.6	446.5	457.5	482.5	537.5	575.4	594.4	605.4	609.4
22.5°	235.8	265.7	308.7	352.6	371.6	392.6	446.5	482.5	505.5	510.5	512.5
25°	178.8	205.8	239.8	282.7	296.7	316.7	365.6	396.6	417.6	418.6	421.6
27.5°	132.9	155.8	182.8	219.8	230.8	249.7	294.7	321.7	342.6	341.7	341.7
30°	100.9	117.9	141.9	169.8	180.8	194.8	231.8	259.7	272.7	277.7	267.7
32.5°	74.9	88.9	107.9	129.9	139.9	152.8	180.8	203.8	216.8	215.8	210.8
35°	56.9	66.9	80.9	97.9	105.9	115.9	139.9	157.8	166.8	167.8	160.8
37.5°	43.0	50.9	60.9	73.9	79.9	87.9	105.9	118.9	127.9	126.9	120.9
40°	32.0	38.0	45.0	54.9	59.9	64.9	78.9	88.9	93.9	93.9	88.9
42.5°	24.0	28.0	34.0	40.0	44.0	47.0	56.9	63.9	68.9	67.9	62.9
45°	18.0	21.0	25.0	29.0	31.0	34.0	40.0	44.0	47.0	46.0	44.0
47.5°	14.0	16.0	18.0	21.0	22.0	24.0	27.0	30.0	31.0	31.0	30.0
50°	10.0	12.0	13.0	15.0	15.0	16.0	18.0	19.0	20.0	20.0	20.0
52.5°	8.0	9.0	10.0	10.0	11.0	11.0	13.0	13.0	14.0	14.0	13.0
55°	6.0	7.0	7.0	8.0	8.0	9.0	10.0	10.0	11.0	10.0	10.0
57.5°	5.0	5.0	6.0	7.0	7.0	7.0	8.0	8.0	9.0	8.0	8.0
60°	4.0	4.0	5.0	5.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0
62.5°	3.0	3.0	4.0	4.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0
65°	2.0	3.0	3.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0
67.5°	2.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	3.0
70°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	2.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
75°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8
1°	1151.8	1183.8	1183.8	1154.8	1168.8	1156.8	1156.8	1168.8	1172.8	1180.8	1169.8
2°	1147.8	1179.8	1179.8	1148.8	1164.8	1151.8	1151.8	1162.8	1165.8	1172.8	1161.8
3°	1139.8	1169.8	1171.8	1140.8	1155.8	1139.8	1139.8	1150.8	1149.8	1155.8	1143.8
4°	1126.8	1156.8	1154.8	1124.8	1139.8	1124.8	1119.9	1127.8	1127.8	1126.8	1115.9
5°	1110.9	1137.8	1136.8	1106.9	1118.9	1100.9	1095.9	1097.9	1093.9	1090.9	1073.9
6°	1090.9	1113.9	1113.9	1080.9	1093.9	1071.9	1061.9	1061.9	1055.9	1049.9	1031.9
7°	1065.9	1091.9	1083.9	1056.9	1059.9	1038.9	1025.0	1018.0	1009.0	995.0	970.0
8°	1038.9	1057.9	1051.9	1022.0	1027.9	1000.0	979.0	970.0	954.0	939.0	914.1
9°	1010.0	1029.9	1019.0	987.0	987.0	957.0	932.0	923.1	895.1	878.1	849.1
10°	975.0	993.0	979.0	944.0	940.0	912.1	883.1	868.1	836.1	819.2	784.2
11°	942.0	950.0	936.0	901.1	897.1	858.1	831.1	806.2	774.2	753.2	719.3
12°	904.1	909.1	890.1	857.1	847.1	813.2	774.2	747.2	716.3	686.3	653.3
13°	862.1	870.1	845.1	812.2	804.2	757.2	717.3	689.3	653.3	624.4	586.4
14°	825.2	822.2	800.2	759.2	754.2	704.3	667.3	632.4	596.4	560.4	534.5
15°	784.2	776.2	752.2	713.3	703.3	656.3	611.4	576.4	543.4	508.5	477.5
17.5°	676.3	666.3	631.4	599.4	576.4	533.5	480.5	448.5	411.6	383.6	355.6
20°	577.4	554.4	517.5	482.5	467.5	420.6	374.6	339.7	311.7	284.7	261.7
22.5°	477.5	455.5	413.6	383.6	367.6	323.7	284.7	255.7	231.8	207.8	192.8
25°	386.6	361.6	324.7	298.7	283.7	246.7	214.8	190.8	169.8	154.8	140.9
27.5°	309.7	285.7	251.7	226.8	213.8	183.8	157.8	140.9	125.9	111.9	103.9
30°	242.8	219.8	189.8	173.8	159.8	137.9	117.9	103.9	91.9	82.9	75.9
32.5°	188.8	166.8	143.9	128.9	119.9	99.9	86.9	74.9	66.9	59.9	55.9
35°	142.9	123.9	105.9	95.9	87.9	73.9	63.9	55.9	49.9	45.0	41.0
37.5°	104.9	91.9	76.9	70.9	63.9	53.9	47.0	41.0	36.0	33.0	30.0
40°	77.9	66.9	56.9	50.9	47.0	40.0	34.0	30.0	27.0	24.0	22.0
42.5°	55.9	48.0	41.0	37.0	34.0	29.0	25.0	22.0	20.0	18.0	17.0
45°	39.0	34.0	29.0	27.0	25.0	21.0	18.0	16.0	15.0	13.0	13.0
47.5°	27.0	24.0	21.0	19.0	18.0	15.0	14.0	12.0	11.0	10.0	10.0
50°	18.0	16.0	15.0	14.0	13.0	11.0	10.0	9.0	9.0	8.0	8.0
52.5°	12.0	12.0	11.0	10.0	10.0	9.0	8.0	7.0	7.0	6.0	6.0
55°	9.0	8.0	8.0	8.0	7.0	7.0	6.0	6.0	5.0	5.0	5.0
57.5°	7.0	7.0	6.0	6.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0
60°	6.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0
62.5°	5.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0
65°	4.0	4.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0
67.5°	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	2.0
72.5°	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P300489

CATALOG NUMBER: ML4D09_27D2WE - TIR45SP15 - TL45R6GMWBB - TL46S6GMWBB

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: P300489

CATALOG NUMBER: ML4D09_27D2WE - TIR45SP15 - TL45R6GMWBB - TL46S6GMWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8	1171.8
1°	1183.8	1180.8	1171.8	1183.8	1181.8	1177.8	1188.8	1159.8
2°	1174.8	1171.8	1163.8	1174.8	1170.8	1166.8	1176.8	1149.8
3°	1154.8	1149.8	1142.8	1150.8	1146.8	1139.8	1148.8	1124.8
4°	1125.8	1116.9	1109.9	1112.9	1111.9	1102.9	1111.9	1085.9
5°	1078.9	1071.9	1060.9	1069.9	1058.9	1054.9	1061.9	1032.9
6°	1029.9	1023.0	1009.0	1016.0	1000.0	991.0	1001.0	971.0
7°	975.0	964.0	947.0	947.0	940.0	930.0	928.1	908.1
8°	914.1	888.1	874.1	884.1	868.1	856.1	867.1	842.1
9°	840.1	820.2	811.2	805.2	800.2	779.2	786.2	759.2
10°	781.2	746.2	734.2	735.2	723.3	709.3	714.3	691.3
11°	706.3	684.3	668.3	666.3	652.3	634.4	639.3	623.4
12°	634.4	615.4	603.4	603.4	580.4	571.4	568.4	554.4
13°	573.4	554.4	533.5	537.5	519.5	504.5	510.5	488.5
14°	508.5	490.5	476.5	474.5	457.5	448.5	444.5	437.6
15°	456.5	437.6	422.6	422.6	404.6	393.6	395.6	381.6
17.5°	338.7	321.7	310.7	309.7	296.7	283.7	286.7	272.7
20°	250.7	231.8	226.8	222.8	214.8	206.8	206.8	200.8
22.5°	180.8	170.8	163.8	162.8	154.8	150.8	150.8	143.9
25°	133.9	125.9	120.9	118.9	114.9	110.9	109.9	107.9
27.5°	97.9	91.9	88.9	87.9	84.9	82.9	81.9	79.9
30°	71.9	67.9	65.9	65.9	62.9	60.9	60.9	58.9
32.5°	52.9	49.9	48.0	48.0	46.0	44.0	45.0	43.0
35°	39.0	37.0	36.0	36.0	34.0	33.0	33.0	32.0
37.5°	29.0	27.0	26.0	26.0	25.0	24.0	24.0	23.0
40°	21.0	20.0	19.0	19.0	19.0	18.0	18.0	17.0
42.5°	16.0	15.0	15.0	15.0	14.0	13.0	14.0	13.0
45°	12.0	12.0	11.0	11.0	11.0	10.0	10.0	10.0
47.5°	9.0	9.0	9.0	9.0	8.0	8.0	8.0	8.0
50°	7.0	7.0	7.0	7.0	7.0	6.0	6.0	6.0
52.5°	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0
55°	5.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0
57.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0
60°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
62.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P300489

CATALOG NUMBER: ML4D09_27D2WE - TIR45SP15 - TL45R6GMWBB - TL46S6GMWBB

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)