

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: P300505

Luminaire Tested: **ML4D09_27D2WE - TIR45NFL25 - TL45R6GMWWB - TL46S6GMWWB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P300505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1902-156-15)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML4D09_27D2WE - TIR45NFL25 - TL45R6GMWWB - TL46S6GMWWB
Description: ML4 2700K, 900LM DIM-TO-WARM, 25 DEG NFL 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: 445.0 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.65 / 0.56
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

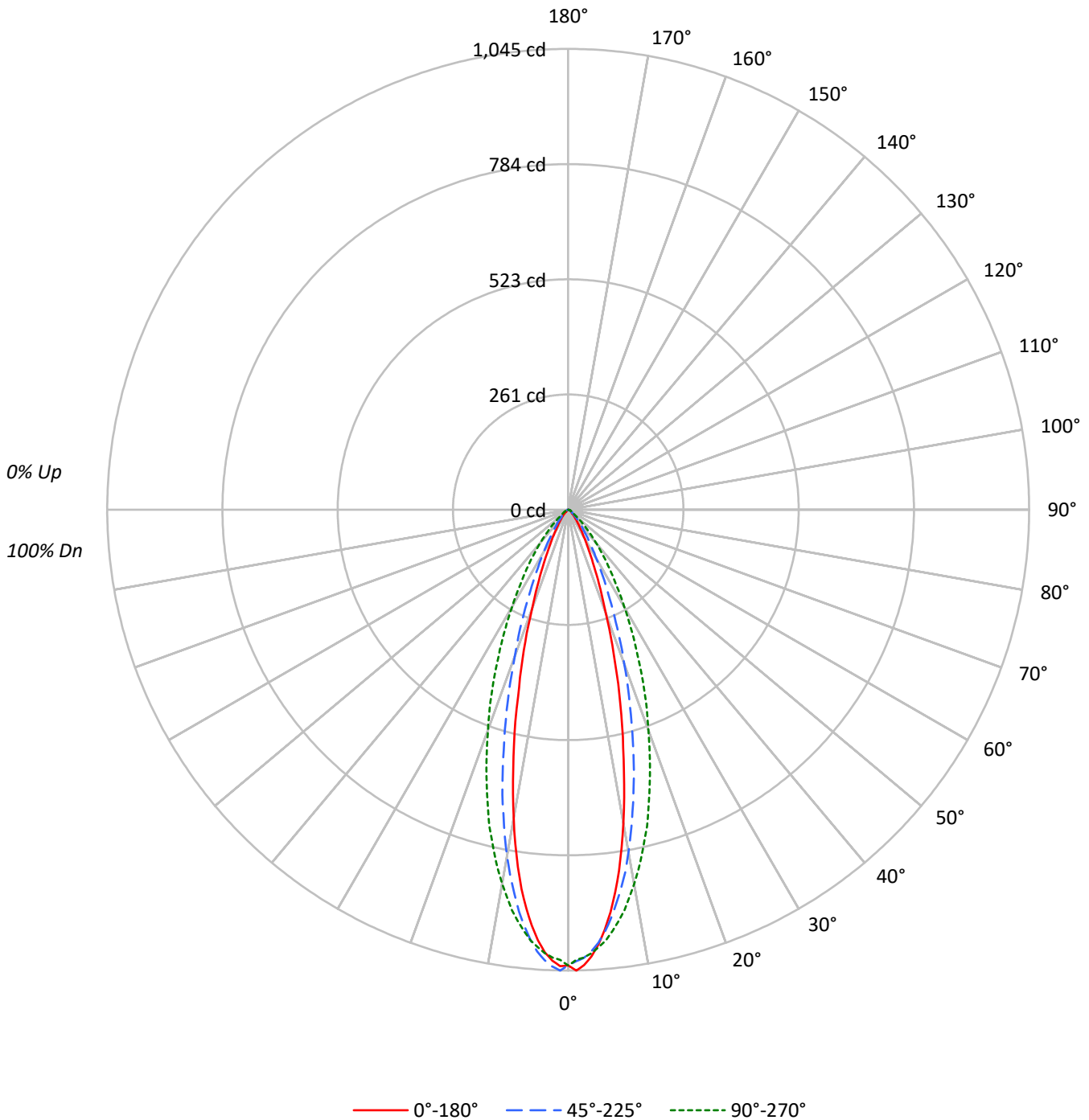
Input Watts (W): 11.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	87	92	89	86	89	87	85	83
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	82	78	85	80	77	83	79	76	82	78	76	74
6	91	83	78	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	65	72	68	65	64
9	81	72	67	63	79	71	66	63	71	66	63	70	66	63	69	65	62	61
10	77	69	64	60	77	68	63	60	68	63	60	67	63	60	66	62	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	402814	402814	402814
5°	373829	383612	370307
10°	285207	340982	281645
15°	184317	283518	176649
20°	102800	220535	99481
25°	56734	162891	52863
30°	31915	114245	27909
35°	19036	78000	16181
40°	12213	49820	9669
45°	8270	29771	6064
50°	6671	16375	3639
55°	5437	10195	2719
60°	4678	7797	2339
65°	3690	6457	1845
70°	3419	5699	2280
75°	3012	3012	1506
80°	2245	2245	2245
85°	4473	4473	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	19.4
10°-20°	157.1	35.3
20°-30°	109.5	24.6
30°-40°	53.7	12.1
40°-50°	22.1	5.0
50°-60°	8.8	2.0
60°-70°	4.7	1.1
70°-80°	2.2	0.5
80°-90°	0.5	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°	353.1	79.3
0°-40°	406.8	91.4
0°-60°	437.7	98.3
0°-90°	445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	445.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1033	1033	1033	1033	1033	
5°	955	959	980	979	946	84
15°	457	571	702	566	438	125
25°	132	222	379	202	123	64
35°	40	73	164	58	34	27
45°	15	25	54	18	11	12
55°	8	10	15	7	4	7
65°	4	5	7	3	2	4
75°	2	2	2	2	1	2
85°	1	0	1	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°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
1°	1045.3	1034.3	1037.3	1034.3	1032.3	1042.3	1021.3	1034.3	1032.3	1037.3	1024.3
2°	1033.3	1021.3	1025.3	1024.3	1021.3	1031.3	1011.3	1025.3	1023.3	1027.3	1017.3
3°	1014.3	1002.3	1007.3	1003.3	1003.3	1012.3	993.3	1008.3	1007.3	1013.3	1003.3
4°	987.3	977.3	982.3	980.3	979.3	989.3	971.3	985.3	985.3	992.3	984.3
5°	955.3	944.3	950.3	949.3	946.3	960.3	942.3	955.3	960.3	965.3	959.3
6°	917.4	907.4	916.4	913.4	913.4	924.3	909.4	925.3	926.3	936.3	931.3
7°	874.4	862.4	869.4	874.4	876.4	882.4	872.4	889.4	894.4	904.4	898.4
8°	826.4	818.4	821.4	827.4	830.4	838.4	827.4	845.4	852.4	868.4	864.4
9°	775.5	767.5	774.5	777.5	777.5	792.4	782.4	801.4	812.4	824.4	830.4
10°	720.5	712.5	722.5	730.5	731.5	739.5	736.5	755.5	764.5	781.4	787.4
11°	664.5	657.5	671.5	675.5	677.5	687.5	688.5	706.5	721.5	739.5	744.5
12°	607.6	605.6	614.6	621.6	626.6	640.5	637.5	655.5	670.5	695.5	701.5
13°	554.6	549.6	563.6	565.6	573.6	585.6	587.6	606.6	625.6	648.5	657.5
14°	505.6	501.6	512.6	516.6	524.6	535.6	537.6	556.6	572.6	601.6	616.6
15°	456.7	452.7	458.7	464.7	478.7	485.7	488.7	507.6	528.6	555.6	570.6
17.5°	341.8	344.8	349.8	351.8	363.7	372.7	375.7	399.7	419.7	444.7	464.7
20°	247.8	250.8	256.8	264.8	273.8	281.8	282.8	308.8	328.8	351.8	371.7
22.5°	181.9	182.9	187.9	192.9	199.9	204.9	209.9	225.8	244.8	268.8	289.8
25°	131.9	131.9	136.9	140.9	145.9	150.9	155.9	169.9	183.9	202.9	221.8
27.5°	96.9	96.9	99.9	102.9	106.9	109.9	114.9	124.9	136.9	153.9	169.9
30°	70.9	70.9	73.9	75.9	79.9	81.9	83.9	92.9	101.9	113.9	126.9
32.5°	54.0	53.0	55.0	56.0	59.0	61.0	63.0	68.0	75.9	85.9	95.9
35°	40.0	40.0	41.0	43.0	44.0	46.0	47.0	51.0	58.0	65.0	72.9
37.5°	31.0	31.0	32.0	33.0	34.0	35.0	36.0	39.0	43.0	49.0	54.0
40°	24.0	24.0	25.0	26.0	26.0	27.0	28.0	30.0	34.0	37.0	41.0
42.5°	19.0	19.0	19.0	20.0	21.0	21.0	22.0	24.0	26.0	29.0	32.0
45°	15.0	15.0	16.0	16.0	17.0	17.0	18.0	19.0	21.0	23.0	25.0
47.5°	13.0	13.0	13.0	13.0	14.0	14.0	14.0	15.0	17.0	18.0	19.0
50°	11.0	11.0	11.0	11.0	11.0	12.0	12.0	13.0	14.0	15.0	15.0
52.5°	9.0	9.0	9.0	9.0	10.0	10.0	10.0	11.0	11.0	12.0	12.0
55°	8.0	8.0	8.0	8.0	8.0	8.0	9.0	9.0	9.0	10.0	10.0
57.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	8.0	8.0	8.0
60°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	7.0
62.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0
65°	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0
67.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
70°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	2.0	2.0	3.0	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	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	1.0	1.0	2.0	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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
1°	1020.3	1015.3	1016.3	1033.3	1035.3	1023.3	1039.3	1028.3	1031.3	1021.3	1017.3
2°	1012.3	1009.3	1009.3	1028.3	1029.3	1017.3	1036.3	1023.3	1027.3	1016.3	1012.3
3°	999.3	997.3	998.3	1018.3	1019.3	1007.3	1026.3	1015.3	1018.3	1007.3	1004.3
4°	982.3	979.3	983.3	1003.3	1005.3	993.3	1013.3	1002.3	1006.3	994.3	990.3
5°	959.3	959.3	964.3	985.3	987.3	975.3	997.3	987.3	990.3	980.3	976.3
6°	934.3	936.3	944.3	962.3	968.3	957.3	976.3	969.3	973.3	960.3	956.3
7°	903.4	910.4	917.4	938.3	942.3	933.3	955.3	946.3	952.3	939.3	936.3
8°	873.4	878.4	888.4	909.4	914.4	907.4	928.3	923.3	927.3	917.4	912.4
9°	837.4	845.4	857.4	879.4	886.4	878.4	902.4	898.4	901.4	888.4	887.4
10°	799.4	811.4	826.4	849.4	854.4	846.4	870.4	871.4	874.4	861.4	858.4
11°	759.5	774.5	790.4	813.4	818.4	815.4	838.4	838.4	841.4	832.4	829.4
12°	714.5	733.5	751.5	776.5	785.4	779.4	804.4	806.4	812.4	801.4	797.4
13°	673.5	694.5	715.5	742.5	751.5	744.5	771.5	773.5	781.4	768.5	765.5
14°	633.6	657.5	677.5	707.5	710.5	713.5	738.5	741.5	744.5	739.5	730.5
15°	591.6	613.6	635.6	666.5	675.5	673.5	701.5	706.5	714.5	702.5	696.5
17.5°	491.7	519.6	540.6	574.6	585.6	583.6	612.6	617.6	625.6	616.6	611.6
20°	397.7	425.7	453.7	482.7	496.6	497.6	524.6	534.6	541.6	531.6	525.6
22.5°	316.8	343.8	371.7	400.7	412.7	415.7	442.7	454.7	461.7	455.7	444.7
25°	245.8	274.8	300.8	330.8	337.8	345.8	369.7	380.7	385.7	378.7	374.7
27.5°	189.9	214.8	236.8	264.8	276.8	282.8	303.8	316.8	317.8	313.8	304.8
30°	144.9	164.9	185.9	210.9	221.8	226.8	246.8	256.8	261.8	253.8	248.8
32.5°	108.9	126.9	144.9	165.9	173.9	180.9	195.9	208.9	210.9	203.9	198.9
35°	82.9	96.9	111.9	128.9	136.9	141.9	156.9	165.9	167.9	163.9	158.9
37.5°	62.0	72.9	85.9	98.9	105.9	109.9	120.9	128.9	130.9	127.9	122.9
40°	47.0	56.0	65.0	74.9	80.9	83.9	91.9	98.9	100.9	97.9	94.9
42.5°	36.0	42.0	49.0	56.0	60.0	63.0	70.0	74.9	75.9	73.9	70.9
45°	28.0	32.0	37.0	43.0	45.0	46.0	52.0	55.0	56.0	54.0	52.0
47.5°	21.0	24.0	28.0	31.0	33.0	34.0	37.0	40.0	40.0	39.0	37.0
50°	17.0	19.0	21.0	23.0	24.0	24.0	26.0	28.0	28.0	27.0	26.0
52.5°	14.0	15.0	16.0	17.0	18.0	18.0	19.0	20.0	20.0	19.0	18.0
55°	11.0	12.0	13.0	13.0	14.0	14.0	15.0	16.0	15.0	15.0	14.0
57.5°	9.0	10.0	10.0	11.0	12.0	12.0	12.0	13.0	13.0	12.0	11.0
60°	8.0	8.0	9.0	9.0	10.0	10.0	10.0	11.0	11.0	10.0	10.0
62.5°	6.0	7.0	7.0	8.0	8.0	8.0	9.0	9.0	9.0	9.0	8.0
65°	5.0	6.0	6.0	7.0	7.0	7.0	7.0	8.0	8.0	7.0	7.0
67.5°	4.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
70°	4.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	3.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	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	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	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°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
1°	1036.3	1017.3	1029.3	1032.3	1037.3	1028.3	1035.3	1020.3	1045.3	1026.3	1038.3
2°	1031.3	1011.3	1023.3	1026.3	1031.3	1020.3	1027.3	1012.3	1036.3	1018.3	1028.3
3°	1022.3	1001.3	1013.3	1015.3	1021.3	1009.3	1014.3	1000.3	1023.3	1003.3	1014.3
4°	1009.3	989.3	998.3	1000.3	1006.3	994.3	998.3	981.3	1004.3	981.3	992.3
5°	994.3	973.3	981.3	984.3	988.3	973.3	977.3	960.3	979.3	959.3	964.3
6°	973.3	954.3	959.3	963.3	966.3	950.3	952.3	934.3	949.3	929.3	933.3
7°	954.3	930.3	937.3	937.3	939.3	923.3	921.3	904.4	917.4	896.4	898.4
8°	927.3	907.4	909.4	909.4	910.4	892.4	888.4	870.4	878.4	855.4	854.4
9°	900.4	875.4	880.4	878.4	877.4	858.4	851.4	835.4	839.4	815.4	814.4
10°	870.4	846.4	847.4	845.4	849.4	821.4	812.4	791.4	798.4	772.5	766.5
11°	838.4	815.4	813.4	810.4	811.4	790.4	773.5	750.5	753.5	727.5	719.5
12°	804.4	781.4	775.5	774.5	773.5	750.5	733.5	708.5	706.5	680.5	665.5
13°	774.5	748.5	742.5	737.5	733.5	709.5	693.5	663.5	663.5	631.6	617.6
14°	736.5	712.5	707.5	700.5	695.5	665.5	650.5	618.6	613.6	584.6	566.6
15°	701.5	677.5	667.5	661.5	657.5	624.6	608.6	578.6	565.6	536.6	519.6
17.5°	610.6	584.6	574.6	569.6	557.6	522.6	501.6	471.7	454.7	424.7	407.7
20°	523.6	496.6	480.7	470.7	463.7	431.7	405.7	373.7	353.7	329.8	309.8
22.5°	443.7	415.7	396.7	388.7	378.7	344.8	317.8	288.8	273.8	244.8	228.8
25°	365.7	341.8	323.8	311.8	302.8	270.8	245.8	216.8	201.9	182.9	167.9
27.5°	298.8	275.8	258.8	247.8	238.8	207.9	184.9	163.9	148.9	131.9	122.9
30°	240.8	219.8	202.9	191.9	183.9	157.9	139.9	120.9	109.9	94.9	87.9
32.5°	190.9	173.9	155.9	148.9	139.9	119.9	102.9	88.9	79.9	70.0	65.0
35°	149.9	133.9	119.9	111.9	105.9	88.9	76.9	66.0	58.0	51.0	46.0
37.5°	115.9	102.9	90.9	83.9	78.9	66.0	56.0	48.0	43.0	37.0	34.0
40°	87.9	77.9	67.0	63.0	58.0	49.0	42.0	35.0	32.0	28.0	25.0
42.5°	65.0	57.0	50.0	46.0	43.0	36.0	30.0	26.0	24.0	21.0	19.0
45°	48.0	42.0	37.0	34.0	32.0	26.0	23.0	20.0	18.0	16.0	14.0
47.5°	35.0	30.0	26.0	25.0	23.0	20.0	17.0	15.0	14.0	12.0	11.0
50°	24.0	22.0	19.0	18.0	17.0	15.0	13.0	12.0	10.0	9.0	9.0
52.5°	17.0	16.0	14.0	13.0	13.0	11.0	10.0	9.0	8.0	7.0	7.0
55°	13.0	12.0	11.0	10.0	10.0	9.0	8.0	7.0	7.0	6.0	6.0
57.5°	10.0	9.0	9.0	8.0	8.0	7.0	6.0	6.0	5.0	5.0	4.0
60°	9.0	8.0	7.0	7.0	6.0	6.0	5.0	5.0	5.0	4.0	4.0
62.5°	7.0	6.0	6.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0	3.0
65°	6.0	5.0	5.0	5.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0
67.5°	5.0	5.0	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	2.0	2.0	2.0	2.0
72.5°	3.0	3.0	3.0	3.0	3.0	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	1.0	1.0
77.5°	2.0	2.0	2.0	1.0	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	0.0	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: P300505

CATALOG NUMBER: ML4D09_27D2WE - TIR45NFL25 - 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: P300505

CATALOG NUMBER: ML4D09_27D2WE - TIR45NFL25 - TL45R6GMWWB - TL46S6GMWWB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3	1033.3
1°	1025.3	1024.3	1021.3	1022.3	1036.3	1033.3	1033.3	1035.3
2°	1013.3	1013.3	1010.3	1010.3	1024.3	1021.3	1021.3	1023.3
3°	998.3	997.3	994.3	993.3	1006.3	1002.3	1001.3	1005.3
4°	975.3	974.3	970.3	968.3	980.3	976.3	976.3	979.3
5°	944.3	945.3	940.3	935.3	949.3	948.3	942.3	946.3
6°	914.4	910.4	903.4	901.4	911.4	910.4	908.4	909.4
7°	876.4	870.4	869.4	860.4	867.4	862.4	863.4	866.4
8°	832.4	829.4	822.4	818.4	823.4	816.4	818.4	818.4
9°	788.4	781.4	771.5	765.5	772.5	771.5	764.5	767.5
10°	742.5	734.5	722.5	716.5	719.5	713.5	710.5	711.5
11°	691.5	684.5	673.5	669.5	671.5	658.5	653.5	655.5
12°	644.5	630.6	619.6	615.6	613.6	604.6	601.6	599.6
13°	589.6	578.6	571.6	561.6	560.6	547.6	546.6	545.6
14°	541.6	527.6	515.6	514.6	508.6	499.6	499.6	495.6
15°	493.7	483.7	467.7	461.7	453.7	444.7	443.7	437.7
17.5°	376.7	365.7	355.7	347.8	344.8	335.8	330.8	333.8
20°	286.8	271.8	262.8	256.8	251.8	245.8	243.8	239.8
22.5°	208.9	198.9	192.9	184.9	180.9	175.9	173.9	172.9
25°	150.9	143.9	136.9	133.9	127.9	125.9	122.9	122.9
27.5°	109.9	102.9	98.9	95.9	92.9	89.9	86.9	87.9
30°	78.9	74.9	70.9	68.0	67.0	65.0	64.0	62.0
32.5°	58.0	54.0	52.0	51.0	48.0	47.0	47.0	46.0
35°	43.0	40.0	38.0	37.0	36.0	35.0	34.0	34.0
37.5°	31.0	29.0	28.0	27.0	27.0	26.0	25.0	25.0
40°	23.0	22.0	21.0	20.0	20.0	19.0	19.0	19.0
42.5°	17.0	16.0	16.0	15.0	15.0	15.0	14.0	14.0
45°	13.0	12.0	12.0	12.0	11.0	11.0	11.0	11.0
47.5°	10.0	10.0	9.0	9.0	9.0	8.0	8.0	8.0
50°	8.0	8.0	7.0	7.0	7.0	7.0	7.0	6.0
52.5°	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0
55°	5.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0
57.5°	4.0	4.0	4.0	4.0	4.0	3.0	4.0	3.0
60°	4.0	4.0	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°	3.0	3.0	3.0	3.0	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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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°	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: P300505

CATALOG NUMBER: ML4D09_27D2WE - TIR45NFL25 - 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)