

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: P300519

Luminaire Tested: **ML4D09_27D2WE - TIR45FL40 - TL45R6GMWBB - TL46S6GMWBB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P300519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1902-156-31)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML4D09_27D2WE - TIR45FL40 - TL45R6GMWBB - TL46S6GMWBB
Description: ML4 2700K, 900LM DIM-TO-WARM, 40 DEG FL 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: 453.1 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.67 / 0.63
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

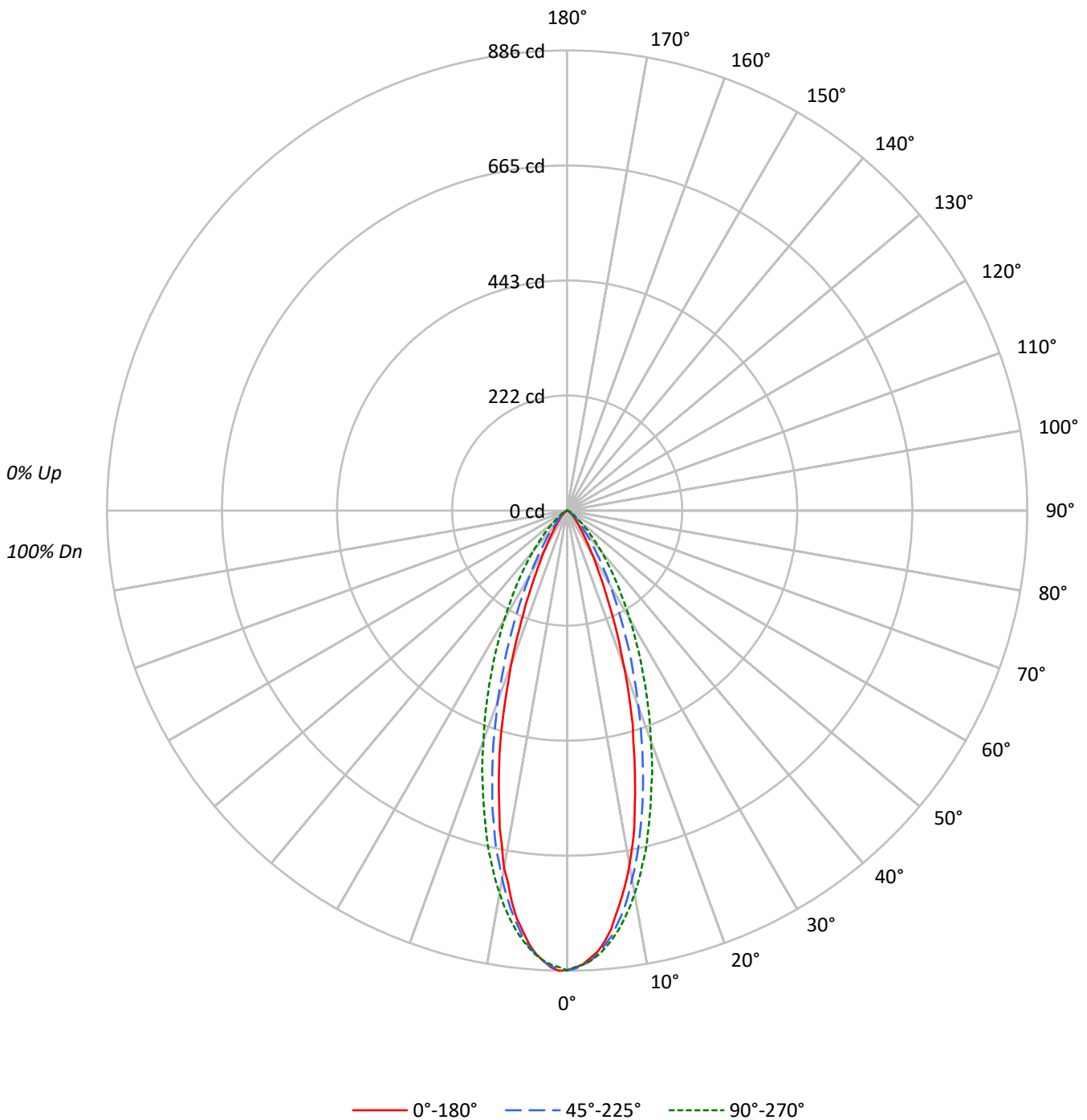
Input Watts (W): 11.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88					88			
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83					83			
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78					78			
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73					73			
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69					69			
7	86	77	72	68	85	77	72	68	76	71	67	74	70	67	73	70	67	65					65			
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62					62			
9	79	70	65	61	78	70	64	61	69	64	61	68	64	60	67	63	60	59					59			
10	76	67	62	58	75	67	61	58	66	61	58	65	61	58	64	60	58	56					56			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	345041	345041	345041
5°	325619	330706	327966
10°	273965	296528	276736
15°	202196	247437	204214
20°	132752	195395	131093
25°	76994	148396	70542
30°	42763	108484	37362
35°	24271	76619	20939
40°	15267	51398	13231
45°	10475	32527	8821
50°	7884	18801	6065
55°	5437	11554	4078
60°	3898	8576	3119
65°	2767	6457	1845
70°	1140	4559	1140
75°	0	1506	1506
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	16.9
10°-20°	153.6	33.9
20°-30°	119.1	26.3
30°-40°	61.6	13.6
40°-50°	26.7	5.9
50°-60°	10.3	2.3
60°-70°	4.3	0.9
70°-80°	1.0	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°	349.1	77.0
0°-40°	410.7	90.6
0°-60°	447.8	98.8
0°-90°	453.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	453.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	885	885	885	885	885	
5°	832	839	845	843	838	75
15°	501	563	613	557	506	137
25°	179	264	345	246	164	84
35°	51	97	161	77	44	34
45°	19	33	59	24	16	15
55°	8	11	17	8	6	8
65°	3	4	7	3	2	3
75°	0	1	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°	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1
1°	880.1	883.1	884.1	882.1	882.1	883.1	884.1	880.1	889.1	884.1	882.1
2°	874.1	877.1	879.1	876.1	876.1	877.1	877.1	873.1	883.1	878.1	876.1
3°	862.1	866.1	867.1	866.1	866.1	867.1	868.1	864.1	872.1	869.1	868.1
4°	851.1	852.1	853.1	852.1	852.1	853.1	853.1	851.1	860.1	855.1	855.1
5°	832.1	834.1	836.1	834.1	834.1	836.1	836.1	833.1	843.1	838.1	839.1
6°	810.1	811.1	811.1	812.1	813.1	813.1	814.1	814.1	822.1	820.1	823.1
7°	780.1	786.1	788.1	785.1	790.1	789.1	790.1	790.1	798.1	795.1	800.1
8°	753.1	755.1	759.1	758.1	763.1	762.1	763.1	765.1	773.1	773.1	778.1
9°	724.1	727.1	729.1	726.1	733.1	733.1	733.1	735.1	744.1	746.1	750.1
10°	692.1	694.1	696.1	695.1	700.1	699.1	702.1	704.1	714.1	719.1	720.1
11°	658.1	657.1	661.1	660.1	666.1	666.1	668.1	672.1	685.1	689.1	692.1
12°	623.1	622.1	622.1	627.1	629.1	635.1	638.1	640.1	649.1	655.1	661.1
13°	579.1	585.1	587.1	589.1	593.1	597.1	600.1	604.1	617.1	622.1	627.1
14°	540.0	544.0	550.0	549.0	553.0	560.0	561.0	567.1	584.1	588.1	596.1
15°	501.0	506.0	510.0	513.0	517.0	523.0	526.0	537.0	546.0	556.0	563.0
16°	462.0	467.0	471.0	475.0	481.0	489.0	489.0	499.0	512.0	519.0	530.0
17°	432.0	428.0	435.0	436.0	448.0	453.0	454.0	463.0	479.0	485.0	497.0
18°	393.0	392.0	396.0	401.0	409.0	414.0	417.0	427.0	441.0	454.0	464.0
19°	356.0	356.0	358.0	368.0	375.0	380.0	382.0	394.0	410.0	420.0	433.0
20°	320.0	323.0	324.0	331.0	342.0	344.0	348.0	361.0	377.0	388.0	402.0
21°	286.0	288.0	292.0	300.0	310.0	314.0	317.0	329.0	348.0	357.0	372.0
22°	260.0	259.0	265.0	270.0	280.0	283.0	288.0	300.0	316.0	330.0	342.0
23°	230.0	230.0	236.0	240.0	251.0	253.0	261.0	271.0	287.0	304.0	317.0
24°	200.0	204.0	209.0	213.0	224.0	230.0	233.0	248.0	264.0	275.0	291.0
25°	179.0	178.0	183.0	190.0	199.0	203.0	207.0	221.0	238.0	253.0	264.0
27.5°	128.0	132.0	134.0	139.0	145.0	150.0	154.0	165.0	181.0	195.0	210.0
30°	95.0	95.0	96.0	101.0	106.0	110.0	114.0	125.0	137.0	149.0	164.0
32.5°	68.0	69.0	71.0	73.0	78.0	82.0	84.0	91.0	102.0	114.0	127.0
35°	51.0	51.0	53.0	55.0	58.0	60.0	62.0	69.0	77.0	87.0	97.0
37.5°	39.0	39.0	40.0	42.0	44.0	45.0	47.0	52.0	58.0	64.0	73.0
40°	30.0	30.0	31.0	32.0	34.0	35.0	36.0	39.0	43.0	49.0	56.0
42.5°	24.0	24.0	24.0	25.0	26.0	27.0	28.0	30.0	33.0	37.0	42.0
45°	19.0	19.0	19.0	20.0	21.0	21.0	22.0	24.0	26.0	29.0	33.0
47.5°	15.0	15.0	16.0	16.0	17.0	17.0	18.0	19.0	20.0	22.0	25.0
50°	13.0	13.0	13.0	13.0	14.0	14.0	14.0	15.0	16.0	17.0	19.0
52.5°	10.0	10.0	10.0	11.0	11.0	11.0	11.0	12.0	13.0	14.0	15.0
55°	8.0	8.0	8.0	9.0	9.0	9.0	9.0	10.0	10.0	11.0	11.0
57.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	8.0	8.0	9.0
60°	5.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0
62.5°	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	6.0
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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
70°	1.0	1.0	1.0	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	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
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°	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1
1°	883.1	880.1	882.1	888.1	880.1	878.1	882.1	888.1	883.1	879.1	883.1
2°	878.1	874.1	877.1	882.1	874.1	874.1	876.1	883.1	879.1	875.1	879.1
3°	870.1	866.1	870.1	874.1	867.1	867.1	869.1	876.1	872.1	868.1	872.1
4°	858.1	855.1	858.1	863.1	857.1	856.1	860.1	865.1	861.1	858.1	861.1
5°	841.1	840.1	844.1	849.1	842.1	844.1	846.1	852.1	848.1	845.1	847.1
6°	824.1	822.1	827.1	832.1	826.1	826.1	830.1	836.1	833.1	830.1	832.1
7°	803.1	800.1	807.1	813.1	807.1	808.1	811.1	817.1	815.1	813.1	814.1
8°	779.1	782.1	784.1	789.1	787.1	785.1	790.1	798.1	795.1	793.1	794.1
9°	755.1	757.1	762.1	767.1	763.1	765.1	767.1	774.1	773.1	772.1	773.1
10°	726.1	728.1	736.1	742.1	738.1	739.1	743.1	753.1	748.1	749.1	749.1
11°	698.1	698.1	708.1	715.1	714.1	713.1	717.1	728.1	726.1	724.1	724.1
12°	667.1	669.1	677.1	685.1	686.1	686.1	695.1	699.1	695.1	697.1	697.1
13°	637.1	639.1	647.1	659.1	657.1	659.1	666.1	670.1	670.1	672.1	669.1
14°	603.1	608.1	621.1	630.1	630.1	631.1	639.1	646.1	642.1	642.1	644.1
15°	573.1	580.1	589.1	597.1	599.1	599.1	609.1	615.1	617.1	613.1	614.1
16°	541.0	551.0	558.0	569.1	570.1	572.1	580.1	586.1	588.1	584.1	585.1
17°	507.0	520.0	529.0	539.0	538.0	543.0	551.0	558.0	558.0	555.0	556.0
18°	478.0	484.0	500.0	507.0	512.0	514.0	522.0	529.0	531.0	530.0	528.0
19°	446.0	456.0	469.0	481.0	483.0	483.0	495.0	502.0	501.0	500.0	498.0
20°	417.0	427.0	441.0	450.0	454.0	457.0	465.0	473.0	475.0	471.0	471.0
21°	387.0	399.0	410.0	422.0	427.0	429.0	437.0	445.0	448.0	445.0	445.0
22°	359.0	372.0	383.0	397.0	399.0	403.0	411.0	420.0	422.0	420.0	419.0
23°	334.0	343.0	358.0	370.0	374.0	378.0	385.0	392.0	396.0	394.0	393.0
24°	307.0	317.0	331.0	345.0	349.0	352.0	360.0	368.0	370.0	370.0	367.0
25°	281.0	293.0	308.0	319.0	325.0	328.0	338.0	343.0	347.0	345.0	342.0
27.5°	226.0	239.0	254.0	265.0	269.0	274.0	282.0	288.0	291.0	290.0	288.0
30°	179.0	192.0	206.0	217.0	223.0	226.0	235.0	242.0	242.0	241.0	237.0
32.5°	141.0	153.0	164.0	174.0	180.0	185.0	191.0	196.0	198.0	197.0	194.0
35°	109.0	119.0	132.0	140.0	144.0	148.0	155.0	159.0	161.0	161.0	157.0
37.5°	84.0	94.0	102.0	110.0	115.0	118.0	124.0	128.0	128.0	128.0	126.0
40°	64.0	71.0	80.0	87.0	91.0	93.0	97.0	101.0	102.0	101.0	98.0
42.5°	48.0	54.0	61.0	66.0	69.0	71.0	75.0	78.0	78.0	78.0	75.0
45°	37.0	42.0	46.0	50.0	52.0	54.0	57.0	59.0	60.0	59.0	57.0
47.5°	28.0	32.0	35.0	38.0	39.0	40.0	42.0	43.0	44.0	44.0	42.0
50°	21.0	24.0	26.0	27.0	28.0	29.0	31.0	31.0	31.0	31.0	30.0
52.5°	16.0	17.0	19.0	20.0	21.0	21.0	22.0	23.0	23.0	22.0	21.0
55°	12.0	13.0	14.0	15.0	16.0	16.0	17.0	17.0	17.0	17.0	16.0
57.5°	9.0	10.0	11.0	12.0	12.0	13.0	13.0	13.0	13.0	13.0	12.0
60°	8.0	8.0	9.0	10.0	10.0	10.0	11.0	11.0	11.0	11.0	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	5.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	6.0
67.5°	3.0	4.0	4.0	5.0	5.0	5.0	5.0	6.0	6.0	5.0	5.0
70°	2.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	1.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	2.0



TEST NUMBER: P300519

CATALOG NUMBER: ML4D09_27D2WE - TIR45FL40 - TL45R6GMWBB - TL46S6GMWBB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
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	0.0	0.0	0.0	0.0	0.0	0.0	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
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°	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1
1°	884.1	879.1	883.1	887.1	888.1	883.1	879.1	888.1	884.1	880.1	884.1
2°	879.1	875.1	878.1	882.1	882.1	877.1	874.1	882.1	878.1	874.1	879.1
3°	873.1	867.1	871.1	875.1	876.1	870.1	867.1	874.1	869.1	865.1	870.1
4°	862.1	857.1	861.1	864.1	865.1	859.1	856.1	862.1	857.1	854.1	856.1
5°	849.1	842.1	848.1	850.1	850.1	844.1	839.1	846.1	843.1	839.1	840.1
6°	833.1	828.1	831.1	832.1	832.1	826.1	821.1	829.1	824.1	819.1	820.1
7°	814.1	808.1	811.1	813.1	814.1	807.1	802.1	805.1	800.1	795.1	797.1
8°	796.1	789.1	791.1	793.1	792.1	785.1	778.1	783.1	776.1	773.1	769.1
9°	772.1	766.1	766.1	771.1	769.1	762.1	755.1	756.1	749.1	743.1	741.1
10°	749.1	743.1	746.1	744.1	742.1	733.1	729.1	728.1	720.1	711.1	712.1
11°	722.1	716.1	716.1	717.1	717.1	704.1	699.1	698.1	689.1	681.1	680.1
12°	697.1	687.1	689.1	686.1	687.1	674.1	666.1	668.1	661.1	651.1	647.1
13°	668.1	663.1	659.1	659.1	660.1	647.1	639.1	637.1	625.1	614.1	609.1
14°	638.1	632.1	630.1	631.1	626.1	612.1	604.1	601.1	594.1	582.1	577.1
15°	611.1	603.1	600.1	597.1	595.1	583.1	571.1	572.1	557.0	550.0	537.0
16°	582.1	573.1	573.1	568.1	565.1	552.0	540.0	537.0	523.0	515.0	504.0
17°	553.0	543.0	541.0	538.0	533.0	520.0	510.0	502.0	490.0	479.0	469.0
18°	525.0	513.0	510.0	506.0	500.0	489.0	474.0	471.0	456.0	443.0	431.0
19°	498.0	487.0	481.0	478.0	471.0	459.0	445.0	436.0	420.0	407.0	400.0
20°	469.0	456.0	452.0	445.0	444.0	427.0	415.0	407.0	391.0	379.0	364.0
21°	439.0	431.0	421.0	421.0	414.0	398.0	386.0	374.0	358.0	344.0	330.0
22°	414.0	404.0	396.0	390.0	386.0	369.0	355.0	344.0	327.0	312.0	301.0
23°	386.0	376.0	367.0	363.0	360.0	342.0	330.0	317.0	302.0	283.0	271.0
24°	362.0	351.0	344.0	337.0	333.0	316.0	302.0	288.0	272.0	255.0	243.0
25°	337.0	329.0	316.0	310.0	308.0	290.0	275.0	263.0	246.0	229.0	215.0
27.5°	280.0	269.0	260.0	256.0	250.0	234.0	220.0	206.0	188.0	174.0	161.0
30°	231.0	220.0	211.0	207.0	200.0	185.0	169.0	156.0	142.0	127.0	117.0
32.5°	189.0	179.0	169.0	163.0	158.0	144.0	130.0	118.0	105.0	94.0	84.0
35°	151.0	141.0	133.0	127.0	123.0	110.0	99.0	88.0	77.0	68.0	61.0
37.5°	119.0	112.0	104.0	100.0	95.0	84.0	75.0	65.0	57.0	50.0	45.0
40°	94.0	87.0	81.0	76.0	73.0	63.0	56.0	48.0	42.0	38.0	34.0
42.5°	72.0	67.0	61.0	58.0	55.0	48.0	41.0	36.0	31.0	28.0	25.0
45°	54.0	50.0	46.0	43.0	41.0	35.0	31.0	27.0	24.0	21.0	19.0
47.5°	40.0	37.0	34.0	32.0	30.0	26.0	23.0	20.0	18.0	16.0	15.0
50°	29.0	27.0	25.0	23.0	22.0	19.0	17.0	15.0	14.0	13.0	12.0
52.5°	21.0	19.0	18.0	17.0	16.0	15.0	13.0	12.0	11.0	10.0	9.0
55°	15.0	14.0	13.0	12.0	12.0	11.0	10.0	9.0	8.0	8.0	7.0
57.5°	12.0	11.0	10.0	9.0	9.0	8.0	8.0	7.0	6.0	6.0	6.0
60°	9.0	8.0	8.0	7.0	7.0	6.0	6.0	5.0	5.0	5.0	4.0
62.5°	7.0	7.0	6.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0
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	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0
70°	3.0	3.0	3.0	3.0	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	1.0	1.0	1.0



TEST NUMBER: P300519

CATALOG NUMBER: ML4D09_27D2WE - TIR45FL40 - TL45R6GMWBB - TL46S6GMWBB

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
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°	1.0	1.0	1.0	1.0	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
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: P300519

CATALOG NUMBER: ML4D09_27D2WE - TIR45FL40 - TL45R6GMWBB - TL46S6GMWBB

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1
1°	886.1	884.1	884.1	886.1	883.1	881.1	884.1	886.1
2°	880.1	879.1	878.1	881.1	877.1	875.1	878.1	880.1
3°	870.1	868.1	868.1	870.1	867.1	865.1	868.1	869.1
4°	858.1	854.1	855.1	856.1	853.1	851.1	854.1	856.1
5°	841.1	837.1	837.1	838.1	835.1	831.1	834.1	838.1
6°	820.1	818.1	815.1	818.1	814.1	810.1	814.1	814.1
7°	798.1	794.1	793.1	793.1	789.1	788.1	786.1	792.1
8°	771.1	768.1	765.1	765.1	761.1	757.1	760.1	762.1
9°	741.1	736.1	734.1	737.1	729.1	727.1	726.1	727.1
10°	711.1	706.1	700.1	703.1	695.1	697.1	693.1	699.1
11°	677.1	673.1	669.1	670.1	663.1	661.1	661.1	658.1
12°	641.1	636.1	634.1	632.1	628.1	621.1	626.1	624.1
13°	608.1	600.1	595.1	596.1	587.1	584.1	585.1	581.1
14°	568.1	562.0	557.0	560.0	551.0	547.0	543.0	544.0
15°	533.0	523.0	519.0	516.0	511.0	507.0	508.0	506.0
16°	497.0	486.0	482.0	478.0	474.0	466.0	466.0	468.0
17°	460.0	450.0	445.0	440.0	433.0	428.0	428.0	428.0
18°	426.0	415.0	410.0	402.0	395.0	393.0	385.0	387.0
19°	390.0	377.0	372.0	367.0	359.0	352.0	351.0	347.0
20°	354.0	343.0	339.0	334.0	323.0	317.0	314.0	316.0
21°	323.0	310.0	304.0	298.0	288.0	286.0	279.0	279.0
22°	290.0	277.0	272.0	268.0	256.0	251.0	247.0	245.0
23°	258.0	245.0	240.0	238.0	231.0	222.0	217.0	216.0
24°	230.0	217.0	213.0	206.0	202.0	195.0	194.0	191.0
25°	205.0	194.0	185.0	183.0	175.0	170.0	167.0	164.0
27.5°	147.0	140.0	136.0	131.0	123.0	120.0	115.0	116.0
30°	107.0	99.0	95.0	93.0	87.0	85.0	82.0	83.0
32.5°	77.0	71.0	68.0	65.0	62.0	61.0	59.0	59.0
35°	56.0	51.0	50.0	48.0	46.0	44.0	43.0	44.0
37.5°	41.0	38.0	37.0	36.0	35.0	33.0	33.0	33.0
40°	31.0	29.0	28.0	28.0	26.0	26.0	25.0	26.0
42.5°	24.0	23.0	22.0	21.0	21.0	20.0	20.0	20.0
45°	19.0	18.0	17.0	17.0	16.0	16.0	16.0	16.0
47.5°	15.0	14.0	14.0	13.0	13.0	13.0	12.0	13.0
50°	11.0	11.0	11.0	10.0	10.0	10.0	10.0	10.0
52.5°	9.0	9.0	8.0	8.0	8.0	8.0	8.0	8.0
55°	7.0	7.0	7.0	6.0	6.0	6.0	6.0	6.0
57.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
60°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	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	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	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P300519

CATALOG NUMBER: ML4D09_27D2WE - TIR45FL40 - TL45R6GMWBB - TL46S6GMWBB

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)