

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: P300520

Luminaire Tested: **ML4D09\_27D2WE - TIR45FL40 - TL45R6GMWWB - TL46S6GMWWB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P300520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1902-156-32)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML4D09\_27D2WE - TIR45FL40 - TL45R6GMWWB - TL46S6GMWWB  
Description: ML4 2700K, 900LM DIM-TO-WARM, 40 DEG FL 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: 461.0 lumens  
Efficiency: N/A  
Efficacy: 41.2 lumens/watt  
Spacing Criteria (0/90/45): 0.54 / 0.67 / 0.63  
Luminous Opening: Circular (Dia: 0.19' x H: 0')  
CIE Type: Direct

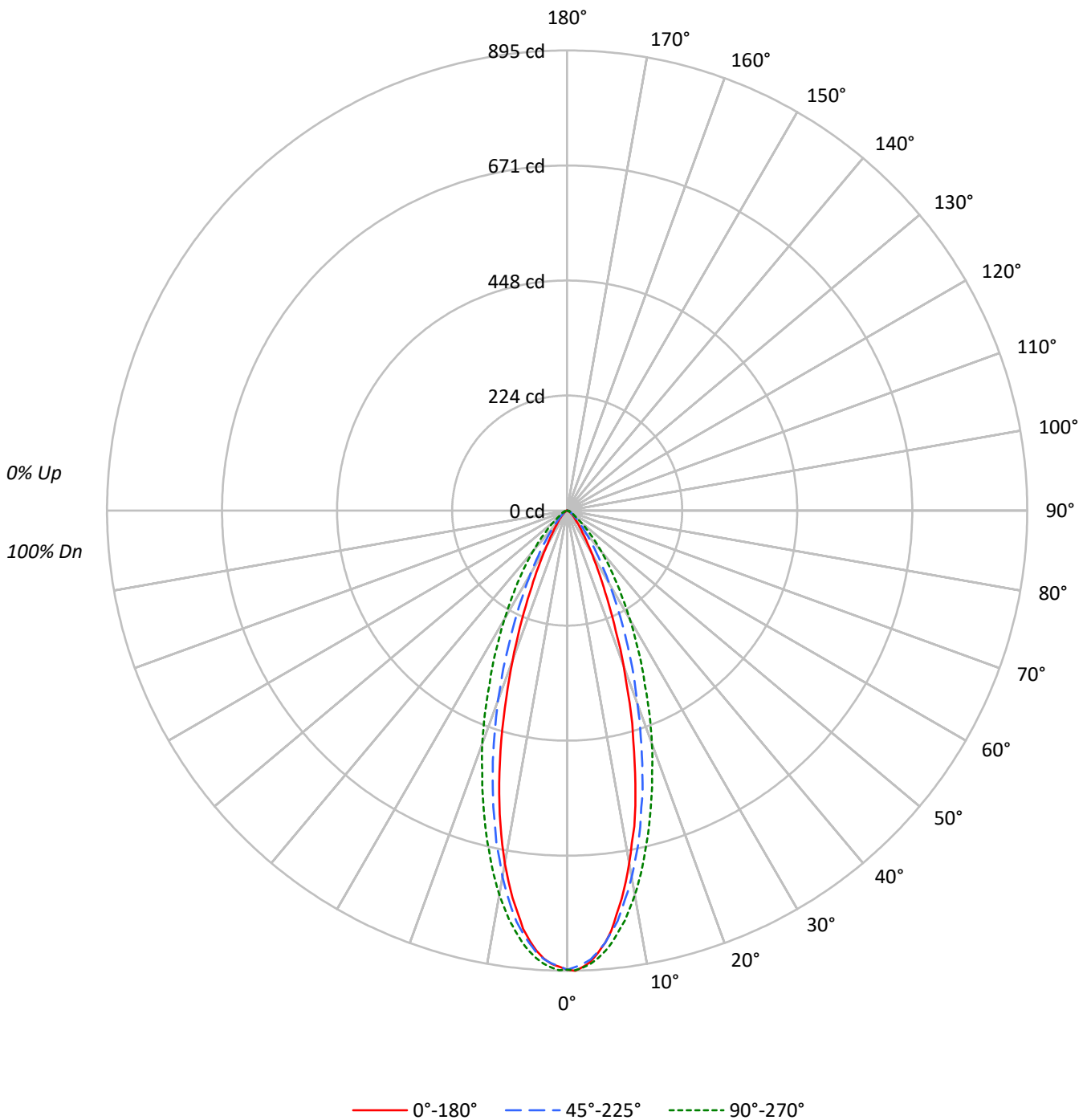
Input Watts (W): 11.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94					94			
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82					82			
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77					77			
5	94	86	80	76	92	85	80	76	83	79	75	81	78	74	80	77	74	72					72			
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68					68			
7	86	77	71	67	84	76	71	67	75	70	67	74	70	66	73	69	66	65					65			
8	82	73	67	64	81	73	67	63	71	67	63	70	66	63	70	66	63	61					61			
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58					58			
10	75	66	61	57	75	66	61	57	65	60	57	64	60	57	64	60	57	56					56			

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

	0°	90°	180°
0°	348198	348198	348198
5°	330354	336223	328397
10°	275548	300526	275944
15°	204658	250263	203850
20°	132794	200000	129060
25°	75273	150589	70112
30°	42313	109384	35561
35°	24271	77095	19988
40°	15776	51907	12722
45°	11026	33078	8270
50°	8491	20014	6065
55°	6797	12234	4078
60°	5458	10136	3119
65°	4612	8302	2767
70°	4559	6839	2280
75°	3012	4519	3012
80°	4490	4490	2245
85°	4473	4473	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.0	16.7
10°-20°	154.5	33.5
20°-30°	119.3	25.9
30°-40°	61.8	13.4
40°-50°	27.3	5.9
50°-60°	11.6	2.5
60°-70°	6.0	1.3
70°-80°	2.8	0.6
80°-90°	0.8	0.2
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°	350.8	76.1
0°-40°	412.6	89.5
0°-60°	451.4	97.9
0°-90°	461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	893	893	893	893	893	
5°	844	844	859	844	839	76
15°	507	567	620	559	505	138
25°	175	266	350	245	163	83
35°	51	97	162	77	42	34
45°	20	33	60	24	15	16
55°	10	14	18	9	6	9
65°	5	7	9	4	3	5
75°	2	3	3	2	2	3
85°	1	1	1	1	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°	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2
1°	895.2	893.2	891.2	892.2	889.2	887.2	893.2	894.2	892.2	890.2	888.2
2°	888.2	887.2	885.2	885.2	882.2	882.2	886.2	887.2	887.2	883.2	882.2
3°	878.2	876.2	873.2	874.2	872.2	870.2	877.2	878.2	876.2	874.2	874.2
4°	862.2	859.2	859.2	860.2	856.2	856.2	863.2	864.2	863.2	859.2	860.2
5°	844.2	840.2	841.2	841.2	838.2	837.2	845.2	846.2	847.2	843.2	844.2
6°	822.2	821.2	818.2	819.2	815.2	816.2	822.2	825.2	827.2	823.2	824.2
7°	791.2	793.2	793.2	792.2	792.2	792.2	799.2	803.2	801.2	802.2	804.2
8°	762.2	762.2	762.2	768.2	764.2	762.2	772.2	774.2	778.2	777.2	777.2
9°	730.1	735.1	731.1	734.1	734.1	735.1	740.1	746.1	748.1	750.1	751.1
10°	696.1	699.1	697.1	702.1	702.1	702.1	708.1	716.1	719.1	720.1	723.1
11°	659.1	661.1	660.1	666.1	667.1	666.1	677.1	682.1	686.1	689.1	693.1
12°	628.1	625.1	625.1	628.1	630.1	634.1	639.1	646.1	652.1	654.1	664.1
13°	589.1	584.1	586.1	590.1	596.1	595.1	604.1	608.1	618.1	621.1	631.1
14°	548.1	548.1	548.1	552.1	557.1	558.1	566.1	574.1	583.1	586.1	595.1
15°	507.1	504.1	510.1	516.1	517.1	521.1	528.1	536.1	548.1	552.1	567.1
16°	466.1	466.1	471.1	478.1	482.1	484.1	492.1	499.1	511.1	521.1	531.1
17°	433.1	434.1	432.1	437.1	444.1	448.1	457.1	464.1	477.1	486.1	497.1
18°	394.1	394.1	394.1	402.1	407.1	411.1	418.1	428.1	442.1	451.1	464.1
19°	352.1	355.1	360.1	363.1	371.1	376.1	387.1	395.1	412.1	418.1	433.1
20°	320.1	324.1	324.1	334.1	336.1	343.1	353.1	364.1	376.1	391.1	399.1
21°	289.1	288.1	292.1	299.1	305.1	310.1	319.1	333.1	344.1	358.1	370.1
22°	253.1	256.1	260.1	265.1	275.1	280.1	290.1	300.1	317.1	329.1	345.1
23°	226.0	229.0	229.0	237.0	246.0	252.1	259.1	274.1	286.1	299.1	316.1
24°	200.0	200.0	204.0	212.0	221.0	224.0	233.0	246.0	260.1	273.1	290.1
25°	175.0	178.0	180.0	185.0	195.0	201.0	208.0	220.0	235.0	249.0	266.1
27.5°	127.0	129.0	131.0	137.0	144.0	149.0	154.0	167.0	180.0	195.0	210.0
30°	94.0	94.0	97.0	100.0	106.0	109.0	113.0	123.0	135.0	148.0	164.0
32.5°	69.0	69.0	70.0	73.0	77.0	79.0	84.0	92.0	102.0	114.0	126.0
35°	51.0	51.0	52.0	55.0	58.0	59.0	63.0	69.0	77.0	85.0	97.0
37.5°	39.0	39.0	40.0	41.0	44.0	45.0	47.0	51.0	57.0	64.0	74.0
40°	31.0	31.0	31.0	32.0	34.0	35.0	36.0	39.0	44.0	49.0	56.0
42.5°	24.0	25.0	25.0	26.0	27.0	28.0	29.0	31.0	34.0	38.0	43.0
45°	20.0	20.0	20.0	21.0	22.0	22.0	23.0	25.0	27.0	30.0	33.0
47.5°	17.0	17.0	17.0	17.0	18.0	18.0	19.0	20.0	22.0	24.0	26.0
50°	14.0	14.0	14.0	14.0	15.0	15.0	16.0	17.0	18.0	19.0	21.0
52.5°	12.0	12.0	12.0	12.0	13.0	13.0	13.0	14.0	15.0	16.0	17.0
55°	10.0	10.0	10.0	10.0	11.0	11.0	11.0	12.0	12.0	13.0	14.0
57.5°	9.0	9.0	9.0	9.0	9.0	9.0	10.0	10.0	10.0	11.0	11.0
60°	7.0	7.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0	9.0	9.0
62.5°	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	8.0
65°	5.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0
67.5°	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.0
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
75°	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0
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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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°	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2
1°	890.2	894.2	887.2	891.2	895.2	890.2	889.2	888.2	894.2	894.2	889.2
2°	884.2	889.2	881.2	886.2	890.2	885.2	884.2	884.2	889.2	889.2	885.2
3°	875.2	881.2	873.2	878.2	882.2	877.2	876.2	876.2	881.2	882.2	877.2
4°	861.2	868.2	862.2	867.2	871.2	865.2	865.2	865.2	872.2	872.2	867.2
5°	848.2	852.2	848.2	852.2	856.2	854.2	853.2	853.2	859.2	859.2	853.2
6°	829.2	833.2	829.2	835.2	840.2	836.2	835.2	837.2	843.2	843.2	839.2
7°	808.2	813.2	808.2	816.2	821.2	818.2	816.2	818.2	823.2	824.2	819.2
8°	783.2	790.2	790.2	793.2	799.2	796.2	796.2	797.2	802.2	805.2	799.2
9°	760.2	765.2	764.2	770.2	775.2	772.2	773.2	775.2	781.2	782.2	777.2
10°	731.1	738.1	737.1	745.1	750.1	748.1	748.1	750.1	756.2	759.2	753.1
11°	700.1	710.1	711.1	717.1	722.1	722.1	723.1	727.1	730.1	733.1	730.1
12°	669.1	683.1	683.1	688.1	696.1	695.1	694.1	698.1	706.1	706.1	702.1
13°	636.1	648.1	652.1	663.1	665.1	669.1	669.1	671.1	677.1	677.1	673.1
14°	607.1	616.1	623.1	633.1	637.1	639.1	640.1	645.1	649.1	650.1	646.1
15°	575.1	587.1	593.1	605.1	605.1	608.1	613.1	617.1	620.1	620.1	616.1
16°	543.1	555.1	563.1	574.1	576.1	578.1	581.1	586.1	591.1	592.1	587.1
17°	508.1	521.1	532.1	541.1	547.1	550.1	552.1	559.1	563.1	564.1	560.1
18°	479.1	490.1	502.1	513.1	518.1	521.1	524.1	530.1	534.1	534.1	529.1
19°	447.1	463.1	469.1	482.1	488.1	490.1	498.1	502.1	506.1	509.1	502.1
20°	415.1	431.1	441.1	452.1	459.1	463.1	467.1	474.1	478.1	482.1	475.1
21°	385.1	402.1	412.1	425.1	431.1	435.1	439.1	445.1	450.1	454.1	448.1
22°	361.1	375.1	385.1	399.1	403.1	411.1	413.1	419.1	424.1	427.1	419.1
23°	333.1	348.1	360.1	373.1	379.1	383.1	388.1	394.1	398.1	400.1	393.1
24°	305.1	322.1	334.1	347.1	352.1	357.1	364.1	371.1	373.1	372.1	370.1
25°	281.1	299.1	309.1	324.1	330.1	335.1	338.1	347.1	349.1	350.1	346.1
27.5°	224.0	241.0	254.1	267.1	273.1	276.1	283.1	291.1	292.1	293.1	289.1
30°	179.0	194.0	207.0	219.0	224.0	228.0	235.0	241.0	244.0	243.0	239.0
32.5°	140.0	153.0	166.0	177.0	182.0	186.0	192.0	198.0	199.0	199.0	196.0
35°	109.0	122.0	131.0	142.0	146.0	149.0	156.0	160.0	162.0	162.0	158.0
37.5°	84.0	94.0	103.0	113.0	116.0	119.0	124.0	129.0	130.0	130.0	127.0
40°	64.0	72.0	81.0	88.0	91.0	94.0	98.0	102.0	102.0	102.0	99.0
42.5°	49.0	56.0	61.0	68.0	70.0	72.0	75.0	79.0	80.0	80.0	77.0
45°	38.0	43.0	47.0	52.0	54.0	56.0	58.0	60.0	61.0	60.0	58.0
47.5°	29.0	33.0	36.0	39.0	40.0	42.0	43.0	45.0	45.0	45.0	43.0
50°	23.0	25.0	27.0	30.0	30.0	31.0	32.0	33.0	33.0	33.0	32.0
52.5°	18.0	19.0	21.0	22.0	23.0	23.0	24.0	25.0	24.0	24.0	23.0
55°	15.0	15.0	16.0	17.0	18.0	18.0	19.0	19.0	19.0	18.0	18.0
57.5°	12.0	13.0	13.0	14.0	15.0	15.0	15.0	16.0	15.0	15.0	14.0
60°	10.0	11.0	11.0	12.0	12.0	12.0	13.0	13.0	13.0	13.0	12.0
62.5°	8.0	9.0	10.0	10.0	10.0	11.0	11.0	11.0	11.0	11.0	10.0
65°	7.0	7.0	8.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.0
67.5°	6.0	6.0	7.0	7.0	7.0	7.0	8.0	8.0	8.0	7.0	7.0
70°	5.0	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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	1.0
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: P300520

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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2
1°	887.2	896.2	888.2	890.2	889.2	892.2	894.2	896.2	886.2	890.2	889.2
2°	882.2	892.2	884.2	885.2	885.2	887.2	888.2	890.2	881.2	884.2	883.2
3°	875.2	883.2	876.2	878.2	877.2	880.2	881.2	882.2	873.2	875.2	873.2
4°	865.2	873.2	865.2	866.2	865.2	867.2	869.2	870.2	861.2	862.2	861.2
5°	851.2	859.2	852.2	853.2	853.2	853.2	853.2	855.2	844.2	846.2	844.2
6°	835.2	843.2	836.2	835.2	836.2	836.2	835.2	836.2	826.2	825.2	823.2
7°	817.2	824.2	818.2	816.2	814.2	815.2	815.2	816.2	806.2	805.2	800.2
8°	796.2	803.2	793.2	794.2	791.2	795.2	792.2	790.2	780.2	779.2	776.2
9°	774.2	779.2	769.2	770.2	770.2	769.2	765.2	765.2	753.1	750.1	747.1
10°	749.1	754.1	744.1	744.1	742.1	742.1	737.1	735.1	724.1	722.1	715.1
11°	726.1	727.1	718.1	716.1	718.1	714.1	711.1	705.1	690.1	690.1	682.1
12°	698.1	701.1	692.1	692.1	689.1	684.1	679.1	672.1	661.1	658.1	647.1
13°	668.1	674.1	661.1	661.1	656.1	651.1	647.1	640.1	625.1	623.1	613.1
14°	640.1	646.1	632.1	631.1	629.1	620.1	615.1	605.1	594.1	589.1	579.1
15°	614.1	615.1	603.1	601.1	597.1	587.1	581.1	576.1	559.1	552.1	545.1
16°	585.1	586.1	572.1	569.1	565.1	555.1	549.1	542.1	525.1	516.1	503.1
17°	556.1	556.1	542.1	538.1	532.1	526.1	518.1	506.1	492.1	484.1	467.1
18°	523.1	522.1	513.1	506.1	504.1	493.1	484.1	472.1	457.1	447.1	432.1
19°	495.1	494.1	482.1	476.1	475.1	462.1	451.1	439.1	424.1	411.1	397.1
20°	468.1	467.1	454.1	446.1	441.1	435.1	420.1	409.1	393.1	380.1	366.1
21°	440.1	437.1	424.1	418.1	414.1	402.1	391.1	375.1	359.1	346.1	333.1
22°	414.1	410.1	396.1	390.1	385.1	374.1	361.1	346.1	331.1	315.1	300.1
23°	390.1	383.1	369.1	367.1	358.1	346.1	335.1	319.1	300.1	284.1	270.1
24°	364.1	357.1	344.1	339.1	331.1	317.1	307.1	290.1	271.1	257.1	243.0
25°	340.1	334.1	319.1	313.1	307.1	293.1	282.1	265.1	245.0	231.0	216.0
27.5°	281.1	276.1	261.1	254.1	249.0	236.0	222.0	205.0	188.0	174.0	159.0
30°	231.0	225.0	214.0	206.0	200.0	186.0	172.0	157.0	143.0	128.0	116.0
32.5°	190.0	183.0	170.0	165.0	159.0	145.0	132.0	117.0	105.0	92.0	83.0
35°	151.0	147.0	134.0	129.0	123.0	112.0	100.0	88.0	77.0	67.0	60.0
37.5°	121.0	114.0	105.0	101.0	95.0	85.0	76.0	65.0	56.0	50.0	44.0
40°	94.0	89.0	82.0	77.0	73.0	65.0	56.0	48.0	42.0	37.0	33.0
42.5°	72.0	68.0	62.0	59.0	55.0	48.0	42.0	36.0	31.0	28.0	26.0
45°	55.0	52.0	46.0	44.0	41.0	36.0	31.0	27.0	24.0	21.0	19.0
47.5°	41.0	38.0	34.0	33.0	31.0	27.0	24.0	20.0	18.0	17.0	15.0
50°	30.0	28.0	25.0	24.0	23.0	20.0	18.0	16.0	14.0	13.0	12.0
52.5°	22.0	21.0	19.0	18.0	17.0	15.0	14.0	12.0	11.0	10.0	10.0
55°	17.0	16.0	14.0	14.0	13.0	12.0	11.0	10.0	9.0	8.0	8.0
57.5°	13.0	12.0	11.0	11.0	10.0	9.0	9.0	8.0	7.0	7.0	6.0
60°	11.0	10.0	9.0	9.0	8.0	8.0	7.0	6.0	6.0	6.0	5.0
62.5°	9.0	8.0	8.0	7.0	7.0	6.0	6.0	5.0	5.0	5.0	4.0
65°	8.0	7.0	6.0	6.0	6.0	5.0	5.0	5.0	4.0	4.0	4.0
67.5°	6.0	6.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0	3.0	3.0
70°	5.0	5.0	4.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0
72.5°	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0



TEST NUMBER: P300520

CATALOG NUMBER: ML4D09\_27D2WE - TIR45FL40 - TL45R6GMWWB - TL46S6GMWWB

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
75°	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	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	1.0
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: P300520

CATALOG NUMBER: ML4D09\_27D2WE - TIR45FL40 - TL45R6GMWWB - TL46S6GMWWB

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	893.2	893.2	893.2	893.2	893.2	893.2	893.2	893.2
1°	893.2	892.2	893.2	889.2	891.2	887.2	891.2	887.2
2°	887.2	887.2	887.2	884.2	885.2	881.2	885.2	882.2
3°	877.2	877.2	877.2	873.2	874.2	870.2	875.2	872.2
4°	864.2	864.2	863.2	858.2	861.2	855.2	861.2	858.2
5°	847.2	845.2	846.2	839.2	842.2	837.2	842.2	839.2
6°	827.2	824.2	825.2	819.2	821.2	814.2	819.2	818.2
7°	802.2	800.2	800.2	796.2	794.2	791.2	795.2	788.2
8°	775.2	772.2	771.2	767.2	769.2	762.2	766.2	761.2
9°	746.1	743.1	740.1	739.1	736.1	734.1	731.1	730.1
10°	715.1	710.1	708.1	704.1	701.1	701.1	699.1	697.1
11°	681.1	675.1	677.1	670.1	669.1	659.1	664.1	662.1
12°	647.1	642.1	640.1	633.1	632.1	624.1	631.1	624.1
13°	611.1	604.1	602.1	594.1	594.1	587.1	588.1	586.1
14°	576.1	566.1	564.1	559.1	556.1	546.1	547.1	546.1
15°	539.1	527.1	526.1	519.1	515.1	507.1	511.1	505.1
16°	499.1	488.1	487.1	478.1	477.1	472.1	470.1	464.1
17°	462.1	453.1	448.1	440.1	438.1	432.1	430.1	423.1
18°	425.1	412.1	410.1	406.1	396.1	392.1	388.1	382.1
19°	392.1	377.1	373.1	367.1	363.1	355.1	351.1	346.1
20°	356.1	340.1	337.1	332.1	325.1	317.1	318.1	311.1
21°	322.1	307.1	303.1	297.1	290.1	280.1	280.1	277.1
22°	289.1	276.1	270.1	265.1	254.1	250.0	246.0	246.0
23°	258.1	245.0	240.0	234.0	225.0	218.0	215.0	215.0
24°	230.0	219.0	212.0	206.0	198.0	192.0	190.0	188.0
25°	203.0	191.0	186.0	181.0	174.0	166.0	164.0	163.0
27.5°	148.0	136.0	132.0	127.0	123.0	116.0	114.0	114.0
30°	107.0	96.0	94.0	90.0	86.0	83.0	81.0	79.0
32.5°	76.0	69.0	67.0	65.0	61.0	59.0	58.0	57.0
35°	55.0	50.0	49.0	47.0	45.0	43.0	43.0	42.0
37.5°	41.0	38.0	36.0	35.0	34.0	33.0	32.0	32.0
40°	31.0	29.0	28.0	27.0	26.0	25.0	25.0	25.0
42.5°	24.0	22.0	21.0	21.0	21.0	20.0	20.0	20.0
45°	18.0	17.0	17.0	17.0	16.0	16.0	15.0	15.0
47.5°	14.0	14.0	13.0	13.0	13.0	12.0	13.0	12.0
50°	11.0	11.0	11.0	10.0	10.0	10.0	10.0	10.0
52.5°	9.0	9.0	9.0	8.0	8.0	8.0	8.0	8.0
55°	7.0	7.0	7.0	7.0	7.0	6.0	6.0	6.0
57.5°	6.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0
60°	5.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0
62.5°	4.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0
65°	4.0	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	2.0
70°	3.0	3.0	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



TEST NUMBER: P300520

CATALOG NUMBER: ML4D09\_27D2WE - TIR45FL40 - TL45R6GMWWB - TL46S6GMWWB

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	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	1.0	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)