

# TPC Wisconsin Driving Range

Madison, WI USA

## Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1	70'	70'	3	TLC-LED-1500	4.23 kW	A
		28'	2	TLC-BT-1500	2.86 kW	A
<b>1</b>			<b>5</b>		<b>7.09 kW</b>	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Driving Range	7.09 kW	5

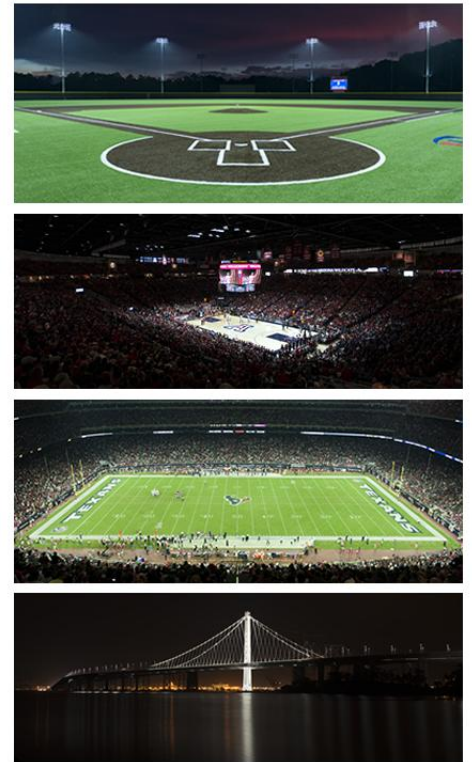
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	2
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	3

Single Luminaire Amperage Draw Chart							
Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage							
TLC-BT-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6

## Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Driving Range 100'	Golfer's Eye	1.22	0	11	262.38		A	5
Driving Range 100'	North Illuminance	0.91	0	9	3344.58		A	5
Driving Range 25'	Golfer's Eye	3.07	0	27	0.00		A	5
Driving Range 25'	North Illuminance	2.69	0	36	21896.96		A	5
Driving Range 3'	Golfer's Eye	2.79	0	22	0.00		A	5
Driving Range 3'	Horizontal Illuminance	0.72	0	21	0.00		A	5
Driving Range 3'	North Illuminance	2.22	0	19	0.00		A	5
Driving Range 50'	Golfer's Eye	2.94	0	46	1489.19		A	5
Driving Range 50'	North Illuminance	3.07	0	132	122196.93		A	5
Driving Range 75'	Golfer's Eye	2.04	0	31	770.93		A	5
Driving Range 75'	North Illuminance	1.85	0	51	37769.01		A	5
Tee Box	Horizontal	13.6	0	22	0.00		A	5

## From Hometown to Professional



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**PROJECT SUMMARY**

# TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary	
Name	Tee Box
Size	570' x 845'
Spacing	10.0' x 10.0'
Height	3.0' above grade

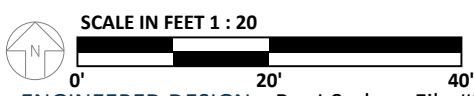
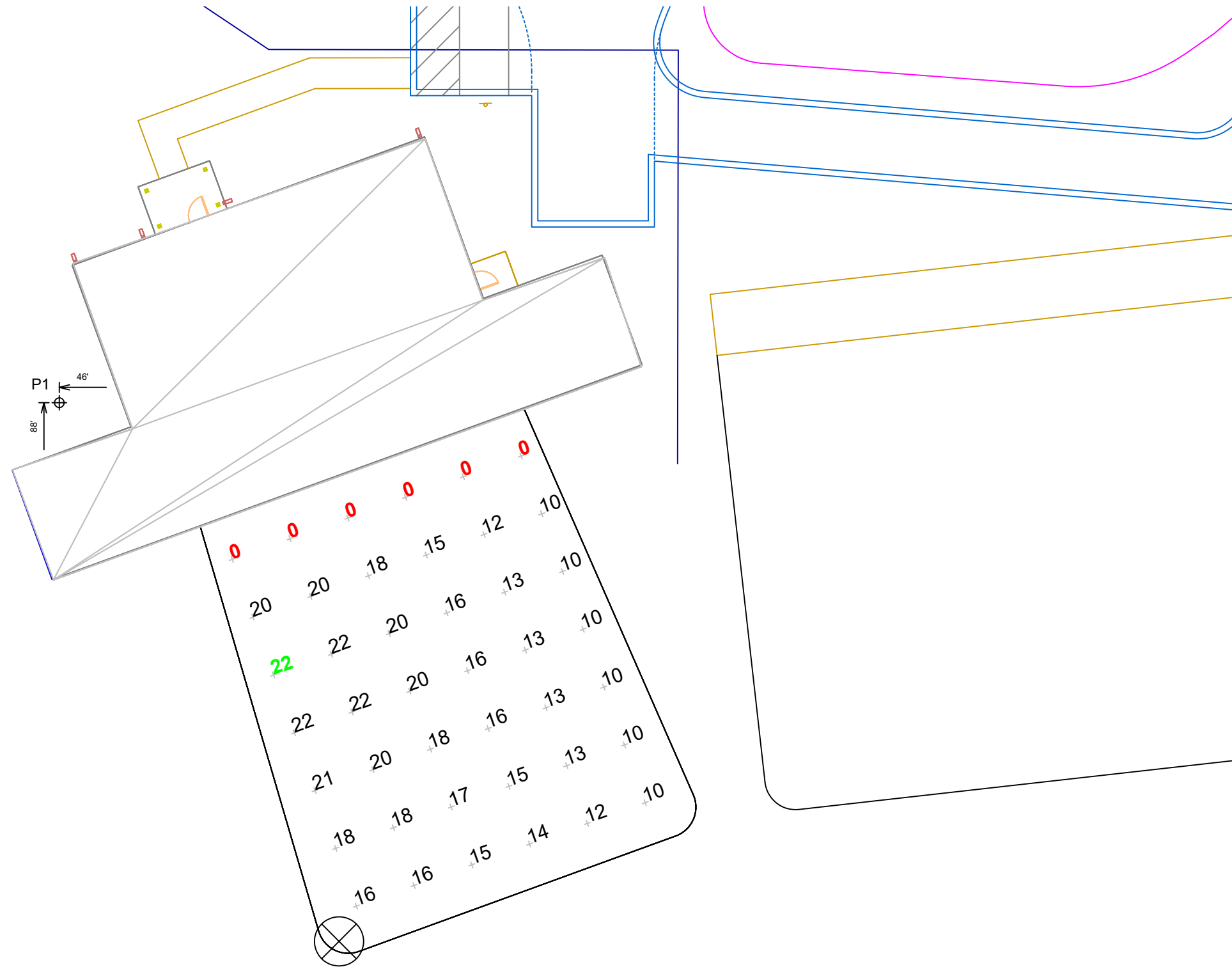
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average	10
Scan Average	13.59
Maximum	22
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	1.32
CU	0.08
No. of Points	42
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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## ILLUMINATION SUMMARY

# TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary	
Name	Driving Range 3'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	3.0' above grade

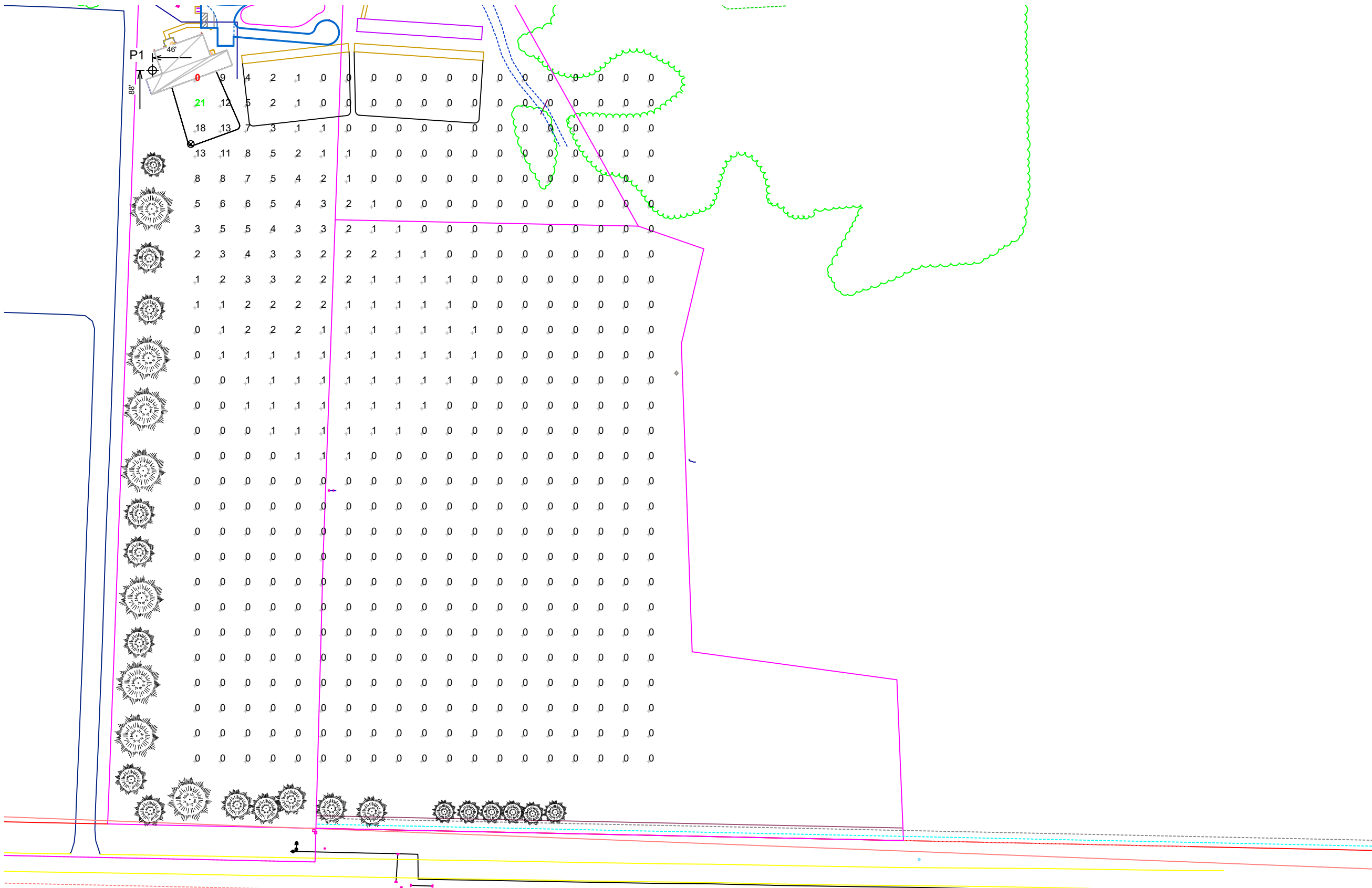
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average	0.72
Maximum	21
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	2.52
CU	0.48
No. of Points	532
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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SCALE IN FEET 1 : 120  
 0' 120' 240'  
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Size	570' x 845'
Spacing	30.0' x 30.0'
Height	3.0' above grade

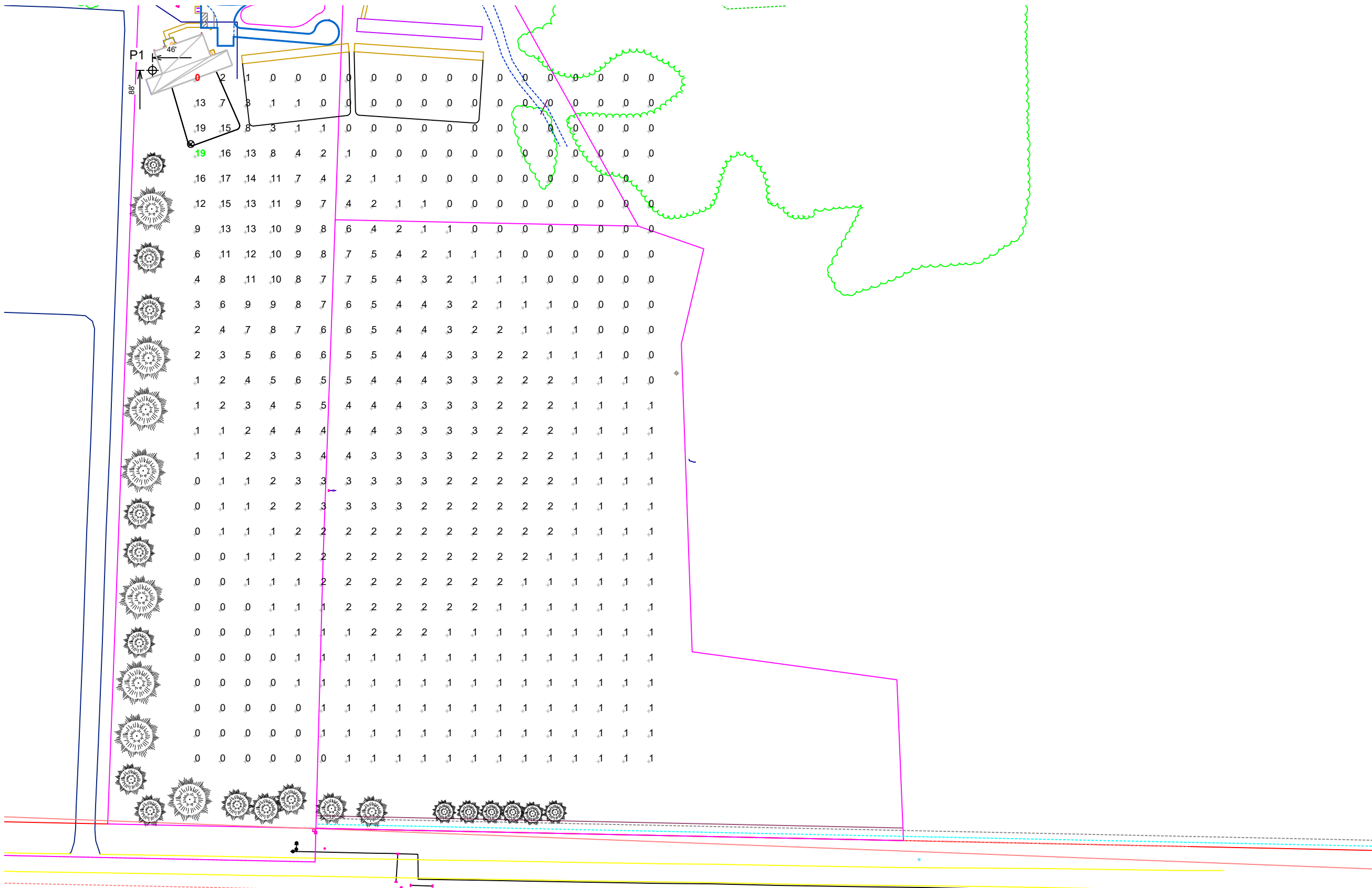
Illumination Summary	
MAINTAINED VERTICAL FOOTCANDLES: 0° TILT	
	Entire Grid
Scan Average	2.22
Maximum	19
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	4.79
CU	0.48
No. of Points	532
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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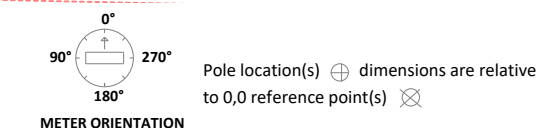
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Name **Driving Range 3'**  
 Size 570' x 845'  
 Spacing 30.0' x 30.0'  
 Height 3.0' above grade

## Illumination Summary

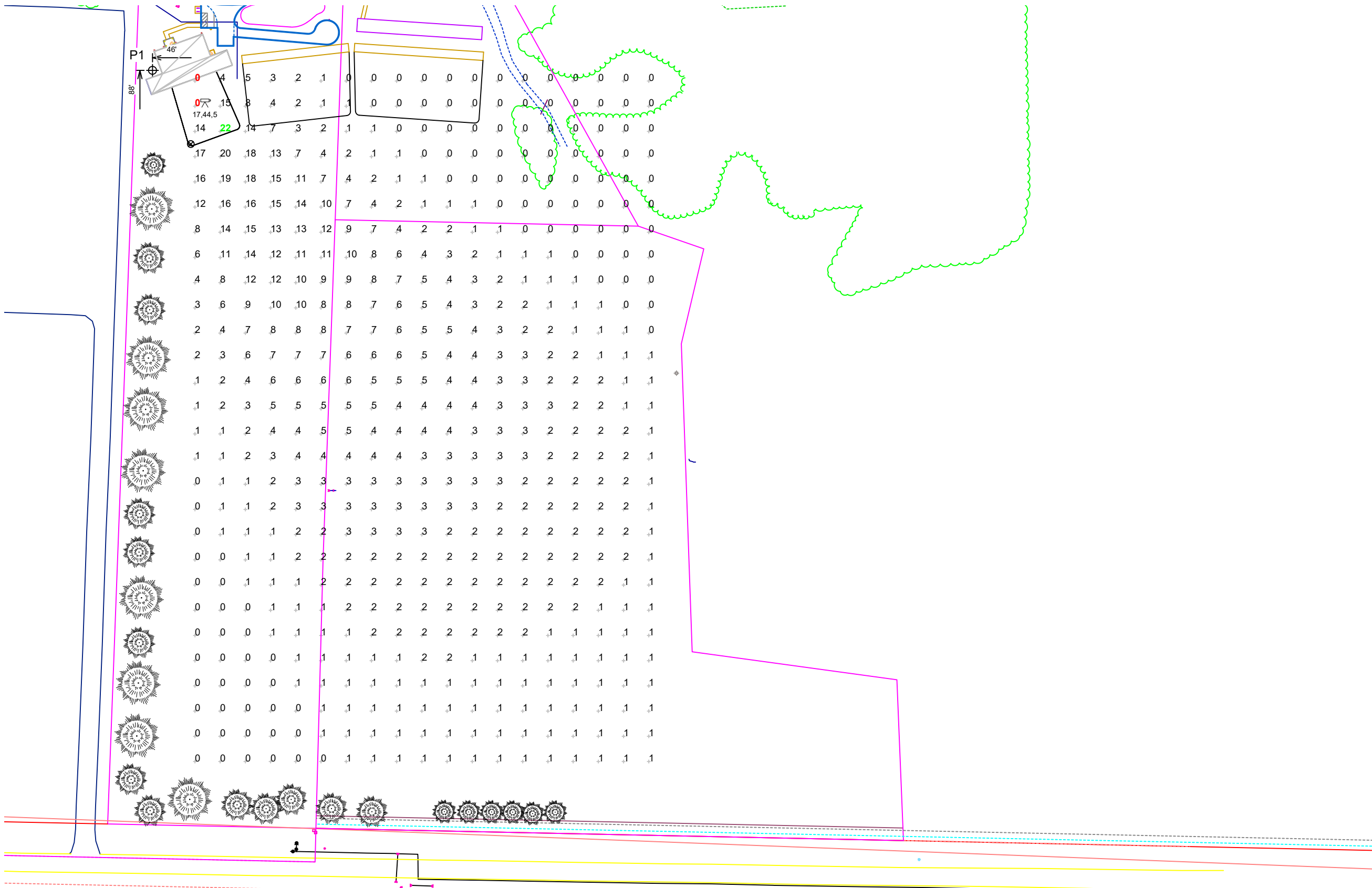
MAINTAINED TV FOOTCANDLES: Golfer's Eye	
Entire Grid	
Scan Average	<b>2.79</b>
Maximum	22
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	3.43
CU	0.48
No. of Points	532
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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## ILLUMINATION SUMMARY



# TPC Wisconsin Driving Range

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Grid Summary	
Name	Driving Range 25'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	25.0' above grade

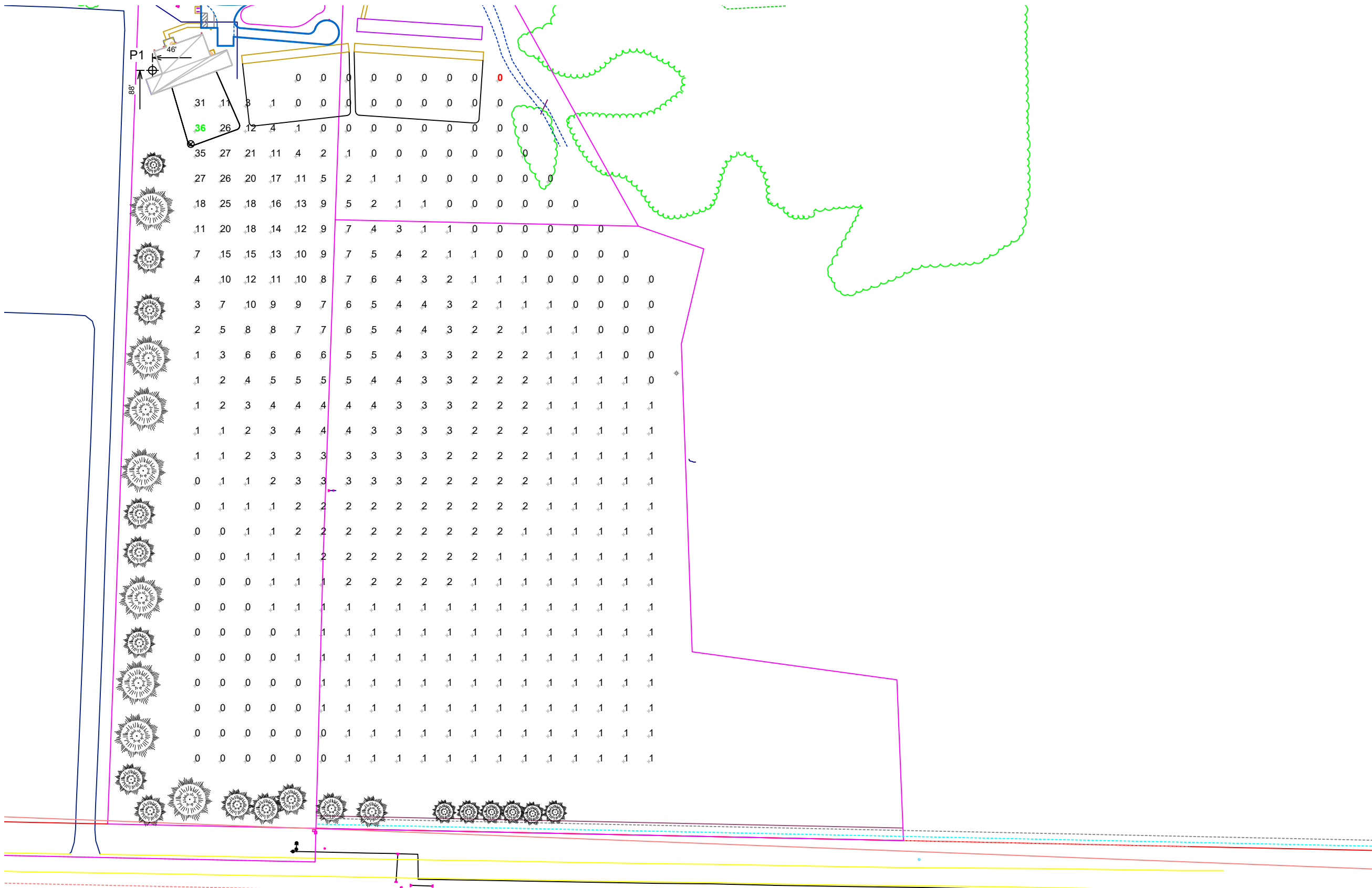
Illumination Summary	
MAINTAINED VERTICAL FOOTCANDLES: 0° TILT	
	Entire Grid
Scan Average	2.69
Maximum	36
Minimum	0
Avg/Min	1615.42
Max/Min	21896.96
UG (adjacent pts)	4.81
CU	0.41
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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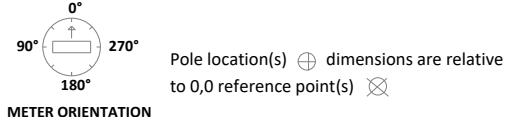
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Name **Driving Range 25'**  
 Size 570' x 845'  
 Spacing 30.0' x 30.0'  
 Height 25.0' above grade

## Illumination Summary

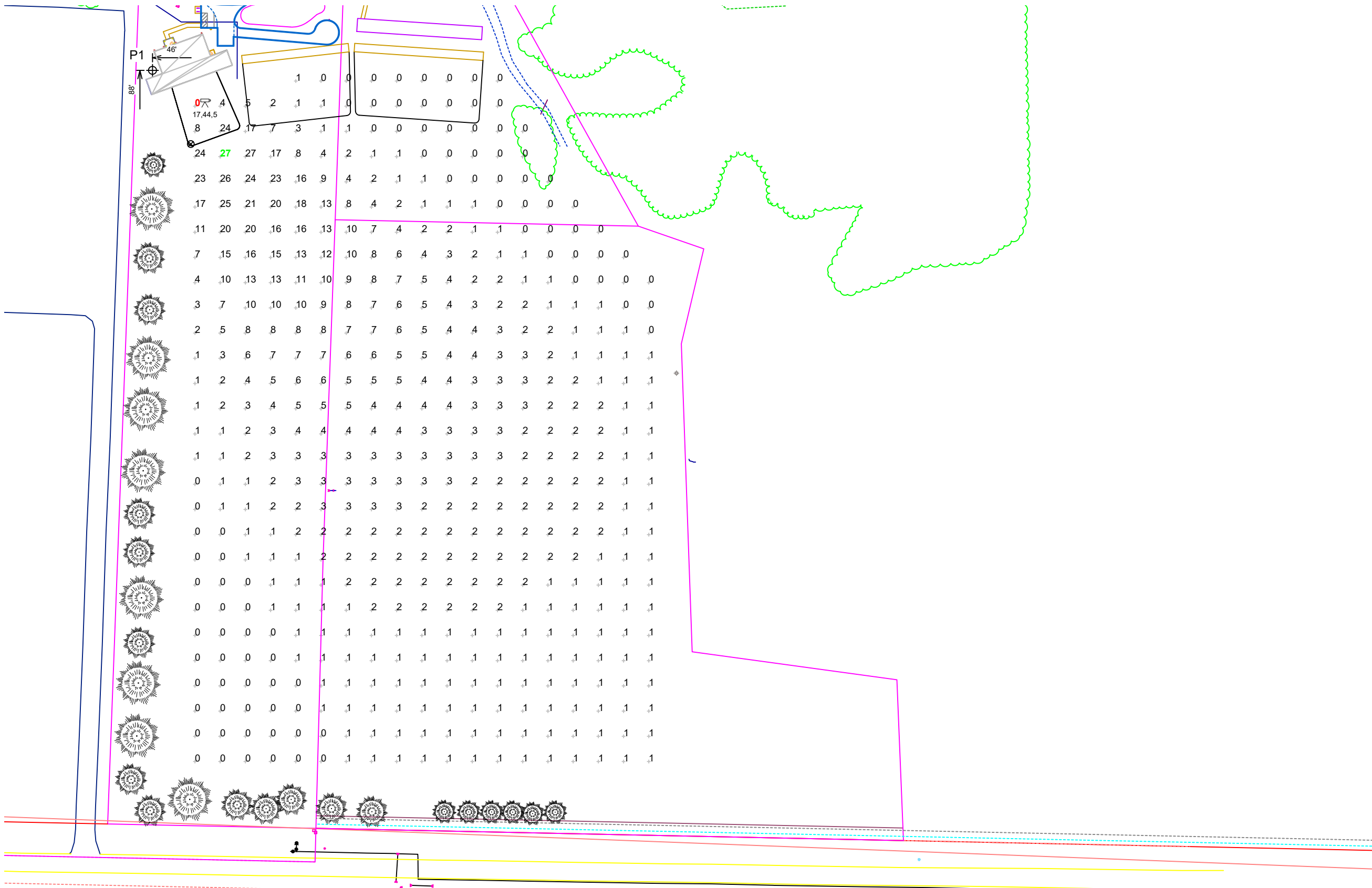
MAINTAINED TV FOOTCANDLES: Golfer's Eye	
Entire Grid	
Scan Average	<b>3.07</b>
Maximum	27
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	5.41
CU	0.41
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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## ILLUMINATION SUMMARY

# TPC Wisconsin Driving Range

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Grid Summary	
Name	Driving Range 50'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	50.0' above grade

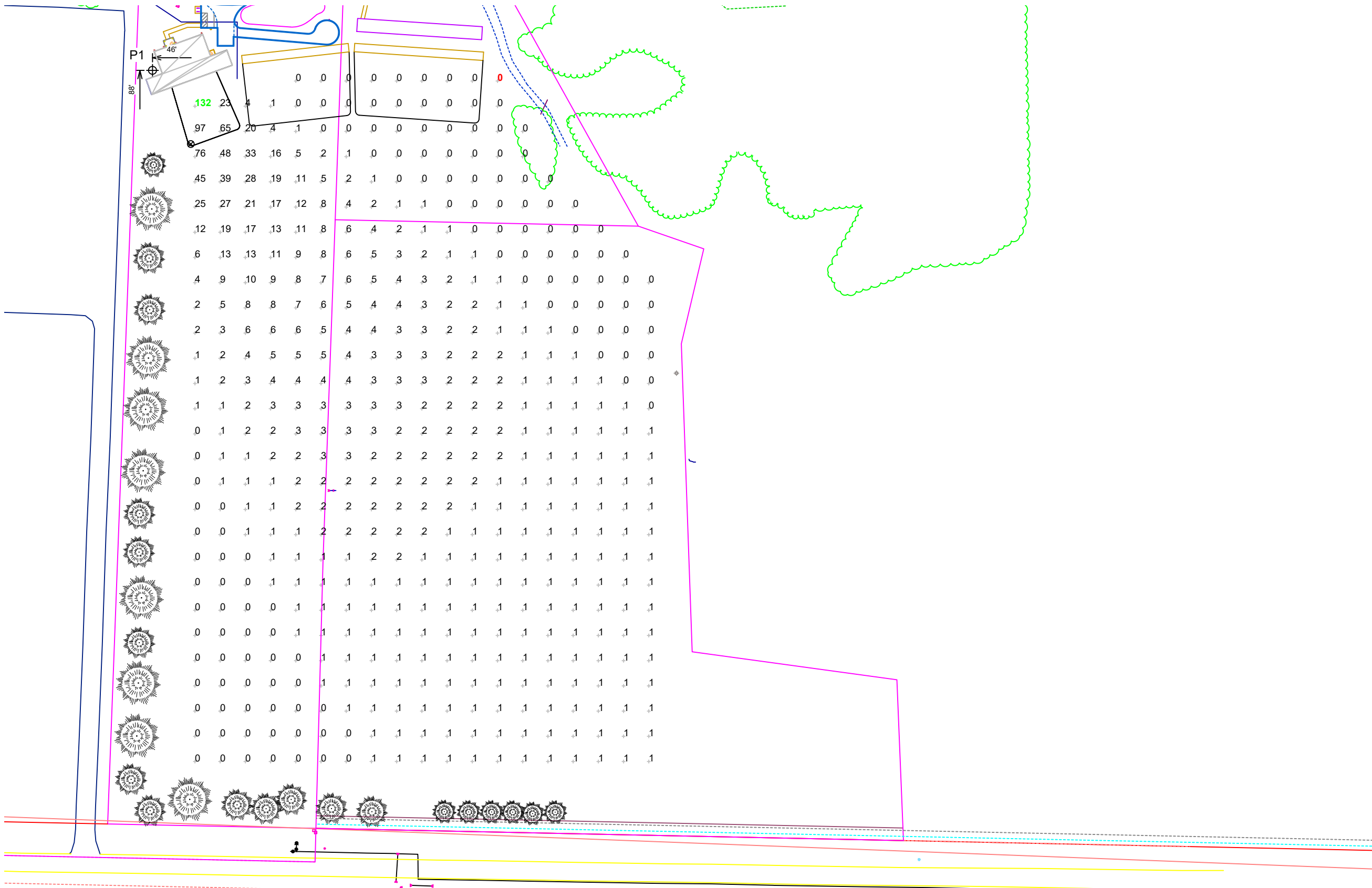
Illumination Summary	
MAINTAINED VERTICAL FOOTCANDLES: 0° TILT	
	Entire Grid
Scan Average	3.07
Maximum	132
Minimum	0
Avg/Min	2849.96
Max/Min	122196.93
UG (adjacent pts)	5.95
CU	0.26
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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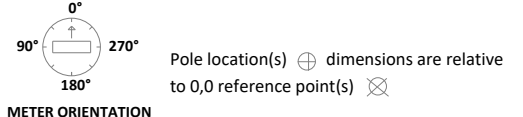
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## Grid Summary

Name **Driving Range 50'**  
 Size 570' x 845'  
 Spacing 30.0' x 30.0'  
 Height 50.0' above grade

## Illumination Summary

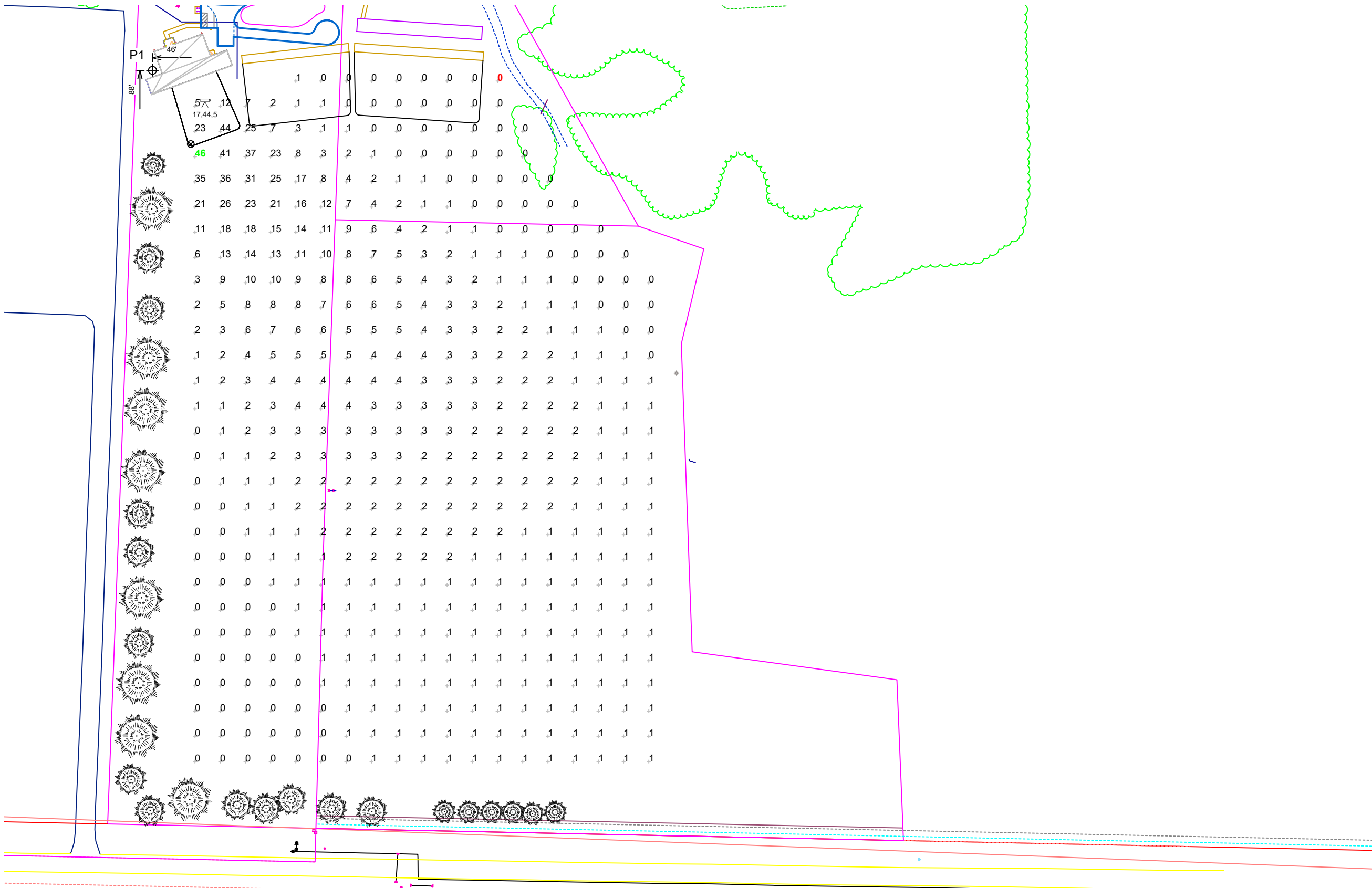
MAINTAINED TV FOOTCANDLES: Golfer's Eye	
Entire Grid	
Scan Average	<b>2.94</b>
Maximum	46
Minimum	0
Avg/Min	95.42
Max/Min	<b>1489.19</b>
UG (adjacent pts)	4.32
CU	0.26
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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## ILLUMINATION SUMMARY

# TPC Wisconsin Driving Range

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## Grid Summary

Name **Driving Range 75'**  
 Size 570' x 845'  
 Spacing 30.0' x 30.0'  
 Height 75.0' above grade

## Illumination Summary

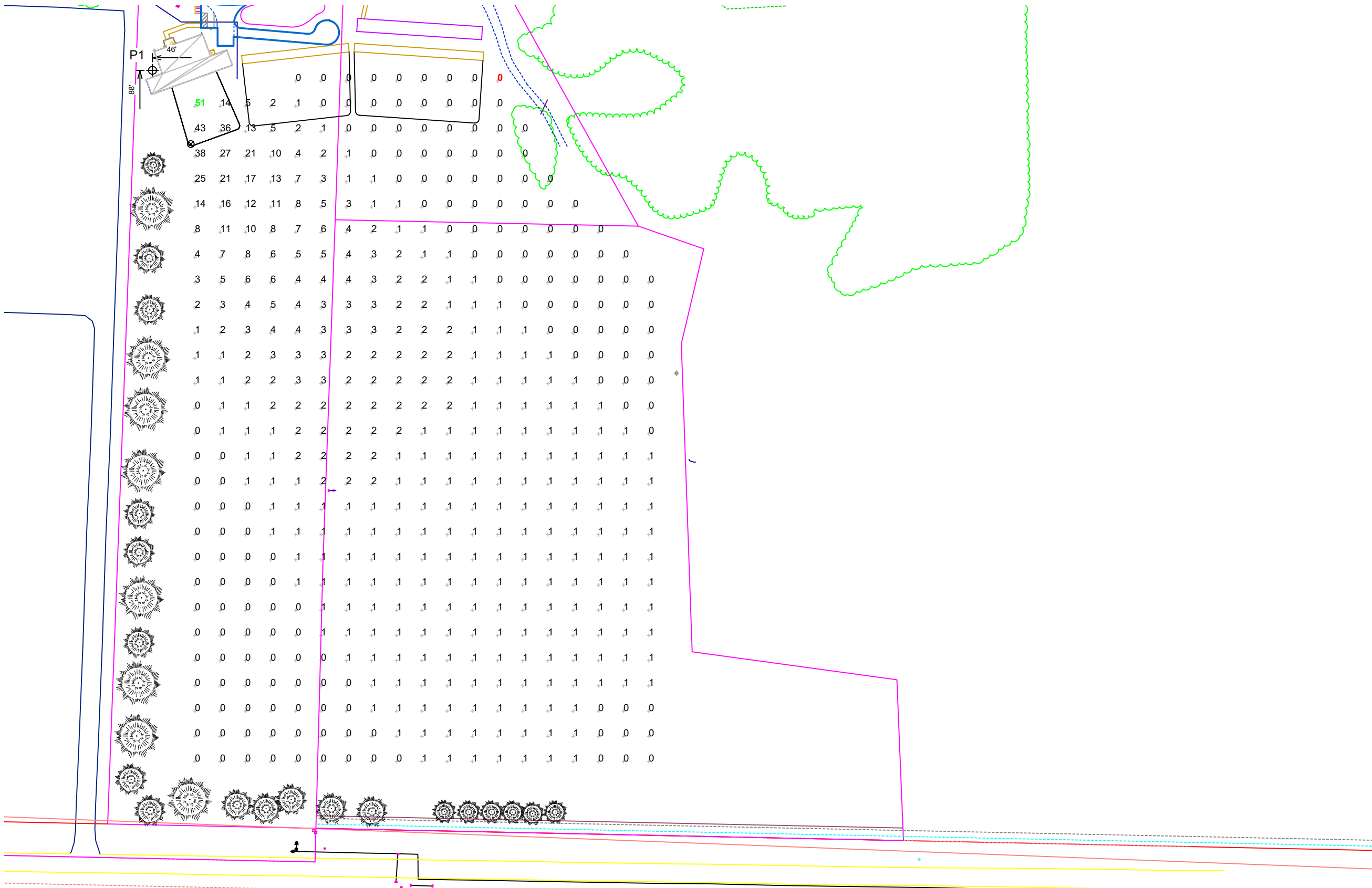
MAINTAINED VERTICAL FOOTCANDLES: 0° TILT	
Entire Grid	
Scan Average	<b>1.85</b>
Maximum	51
Minimum	0
Avg/Min	1372.74
Max/Min	<b>37769.01</b>
UG (adjacent pts)	8.00
No. of Points	496
<b>LUMINAIRE INFORMATION</b>	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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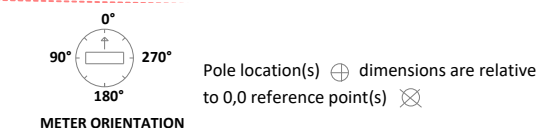
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 Spacing 30.0' x 30.0'  
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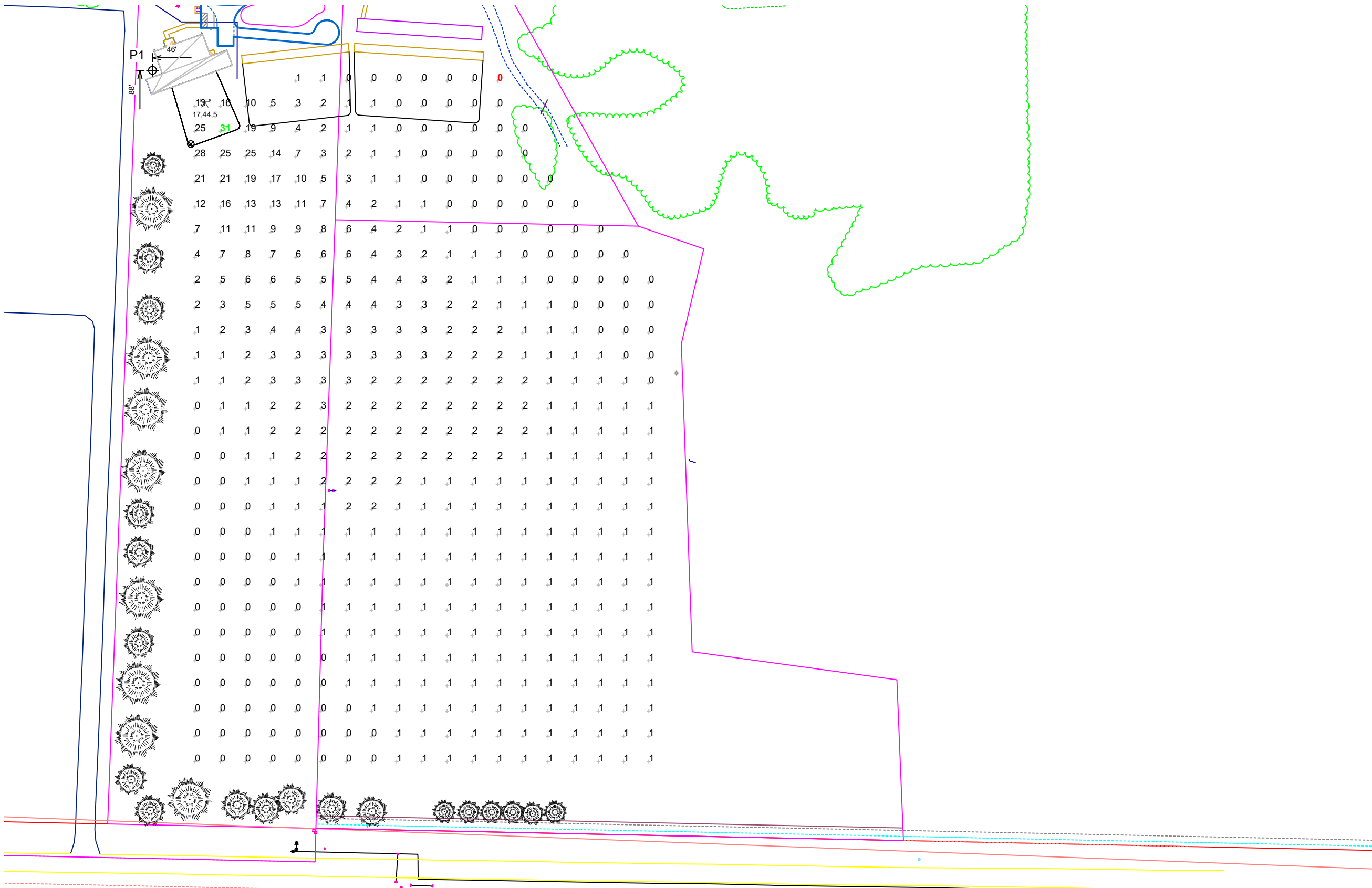
MAINTAINED TV FOOTCANDLES: Golfer's Eye	
Entire Grid	
Scan Average	<b>2.04</b>
Maximum	31
Minimum	0
Avg/Min	50.40
Max/Min	<b>770.93</b>
UG (adjacent pts)	2.56
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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# TPC Wisconsin Driving Range

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Name	Driving Range 100'
Size	570' x 845'
Spacing	30.0' x 30.0'
Height	100.0' above grade

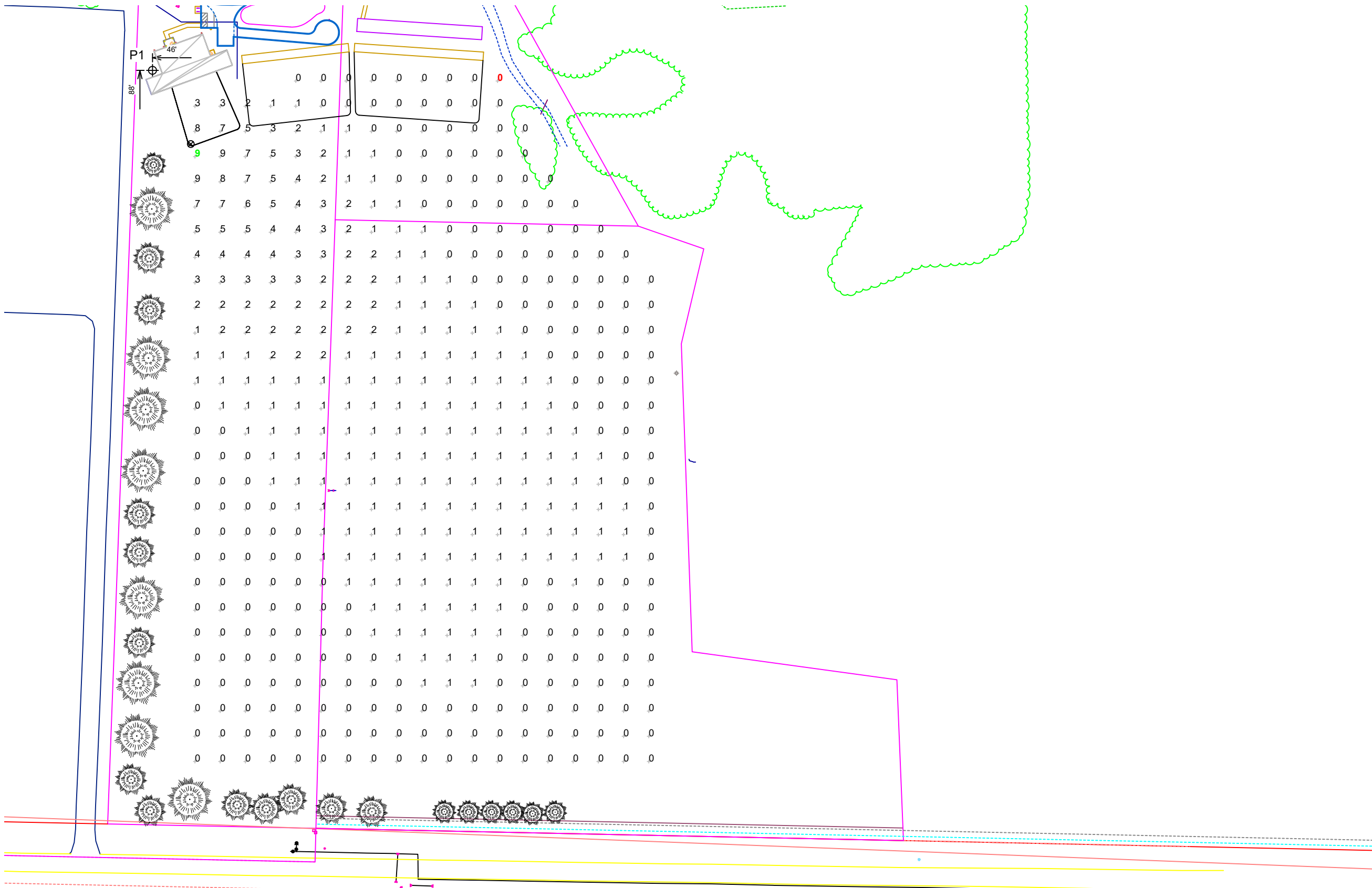
Illumination Summary	
MAINTAINED VERTICAL FOOTCANDLES: 0° TILT	
Entire Grid	
Scan Average	0.91
Maximum	9
Minimum	0
Avg/Min	343.83
Max/Min	3344.58
UG (adjacent pts)	7.99
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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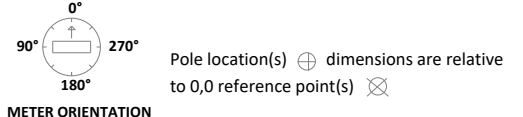
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Spacing	30.0' x 30.0'
Height	100.0' above grade

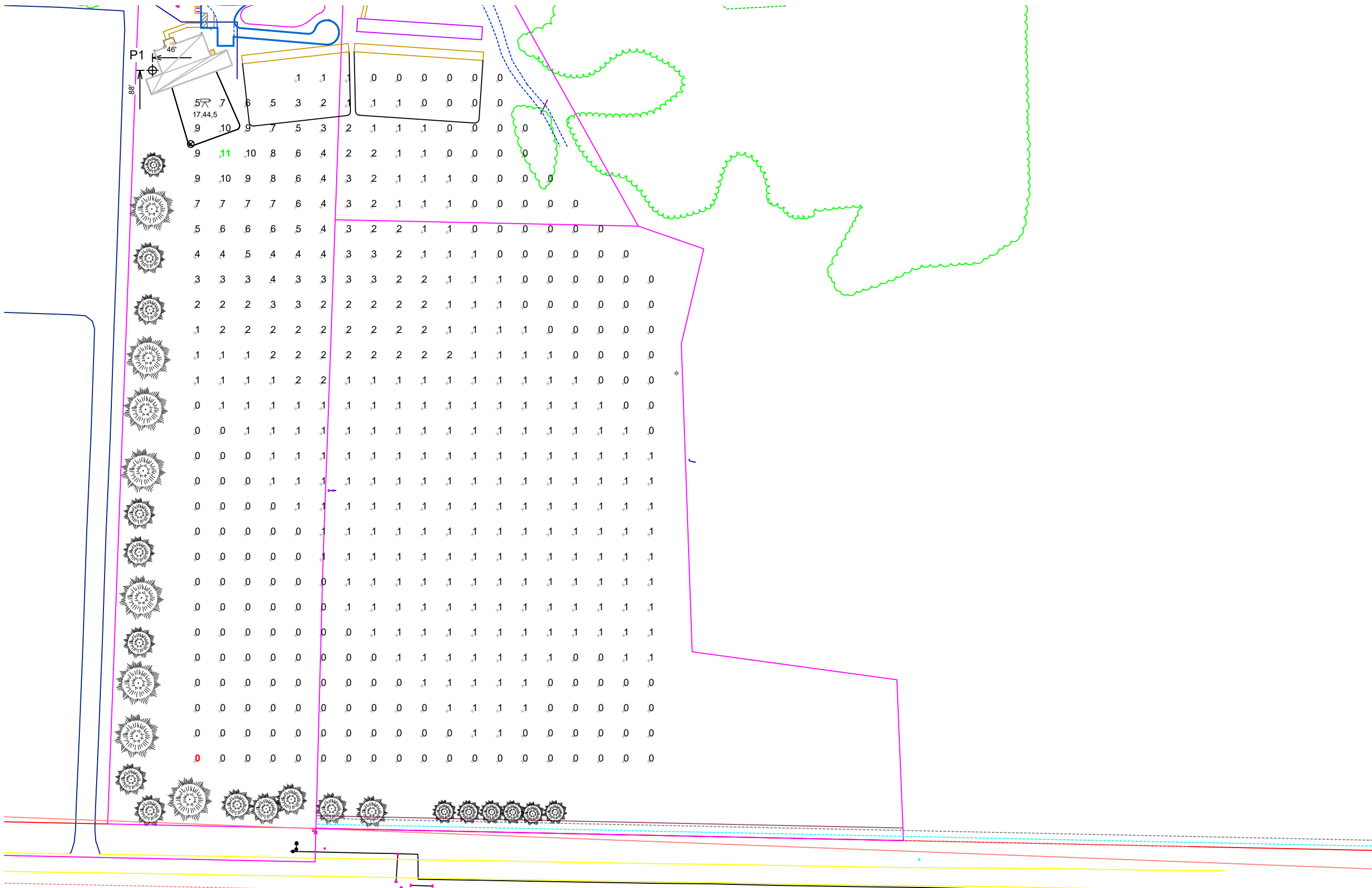
Illumination Summary	
	MAINTAINED TV FOOTCANDLES: Golfer's Eye
	Entire Grid
Scan Average	1.22
Maximum	11
Minimum	0
Avg/Min	29.94
Max/Min	262.38
UG (adjacent pts)	2.51
No. of Points	496
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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## ILLUMINATION SUMMARY



# TPC Wisconsin Driving Range

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Grid Summary	
Name	Road Spill_Horizontal
Spacing	30.0' x 10.0'
Height	3.0' above grade

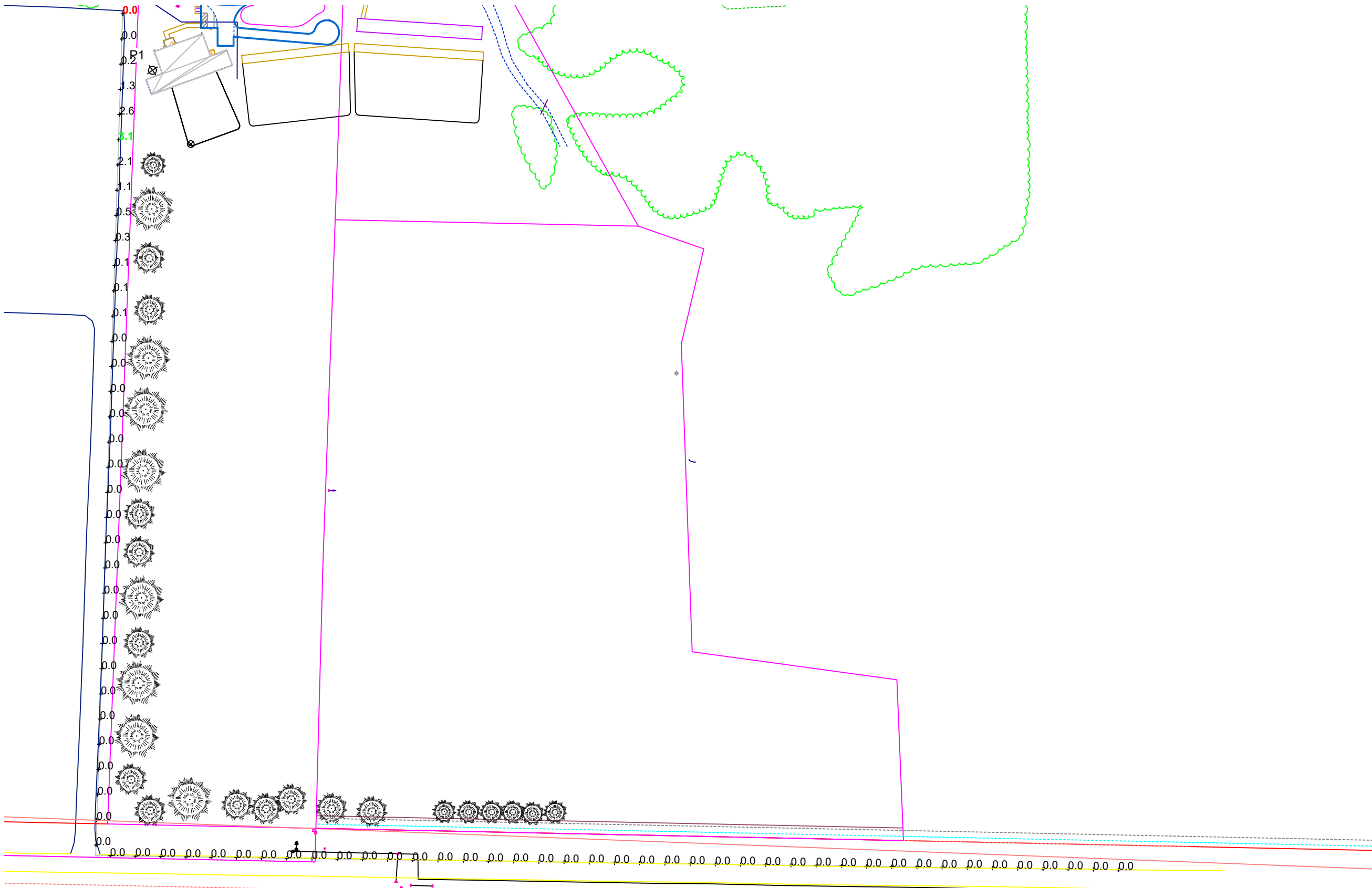
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.17
Maximum	3
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.01
No. of Points	75
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

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**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE IN FEET 1 : 120  
 0' 120' 240'  
 ENGINEERED DESIGN By: J.Seda • File #226862F\_1 • 09-Feb-24

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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## ILLUMINATION SUMMARY

# TPC Wisconsin Driving Range

Madison, WI USA

Grid Summary	
Name	Road Spill_Vertical
Spacing	30.0' x 10.0'
Height	5.0' above grade

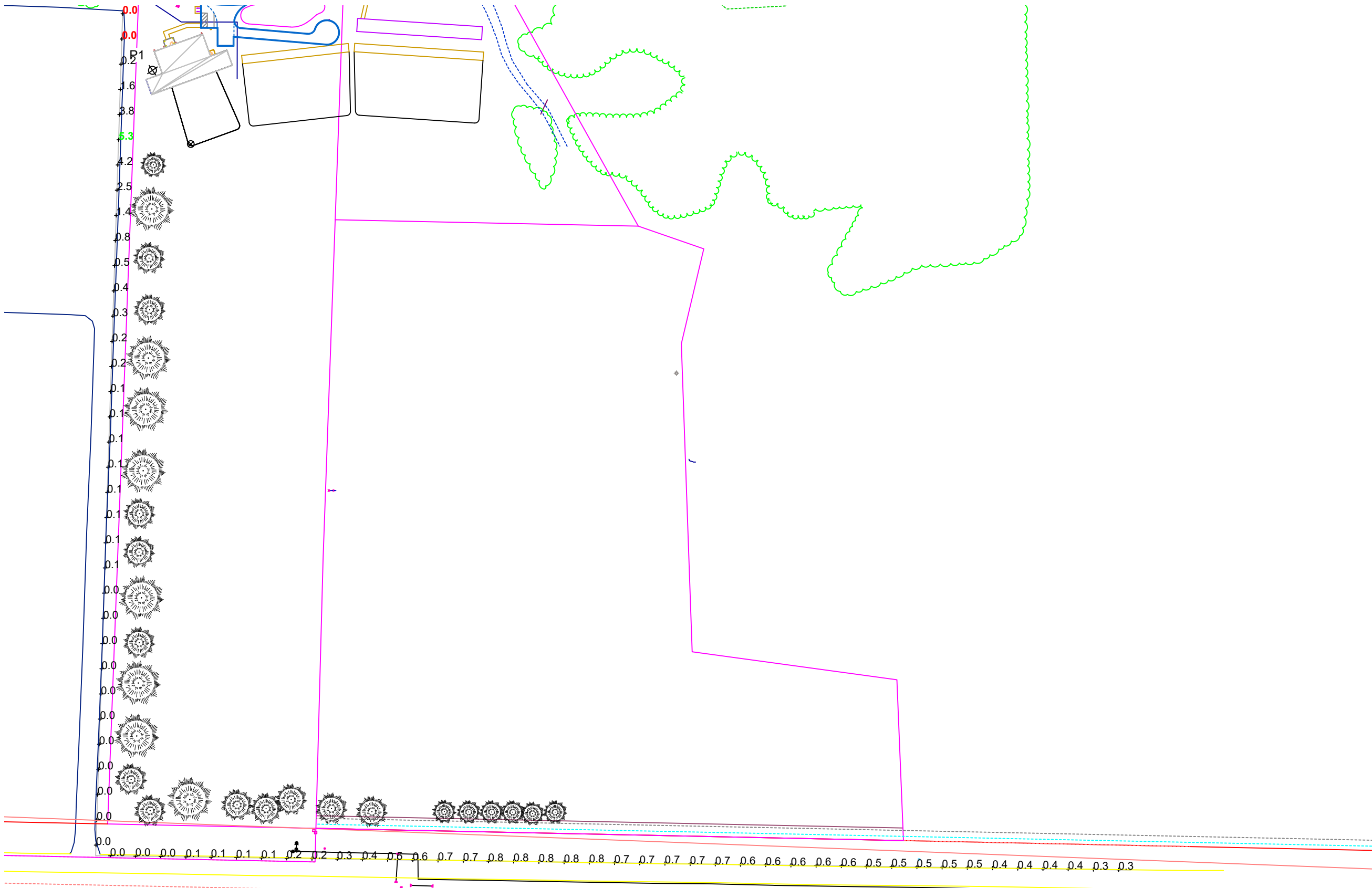
Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.55
Maximum	5
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.01
No. of Points	75
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	5
Total Load	7.09 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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## ILLUMINATION SUMMARY

# TPC Wisconsin Driving Range

Madison, WI USA

## Equipment Layout

### INCLUDES:

- Driving Range

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

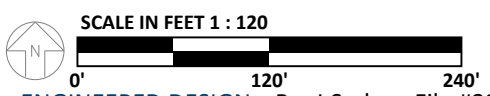
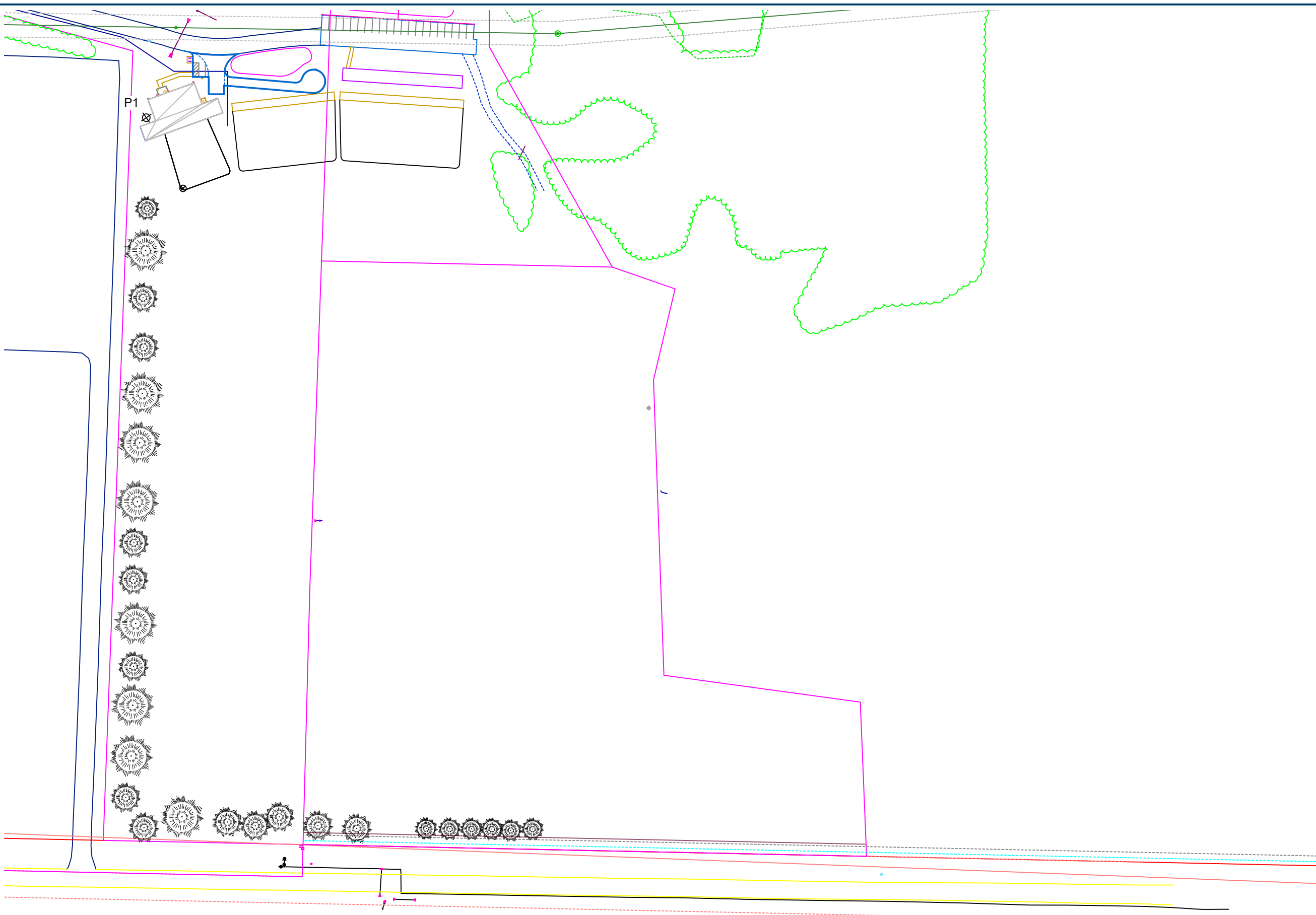
**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

## Equipment List For Areas Shown

QTY	Pole			Luminaires		
	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
1	P1	70'	-	71.0'	TLC-LED-1500	3
				28'	TLC-BT-1500	2
1	Totals					5

## Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
Single Phase Voltage	8.5	8.1	7.4	6.4	5.1	4.7
TLC-BT-1500	8.5	8.1	7.4	6.4	5.1	4.7
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6



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**EQUIPMENT LAYOUT**