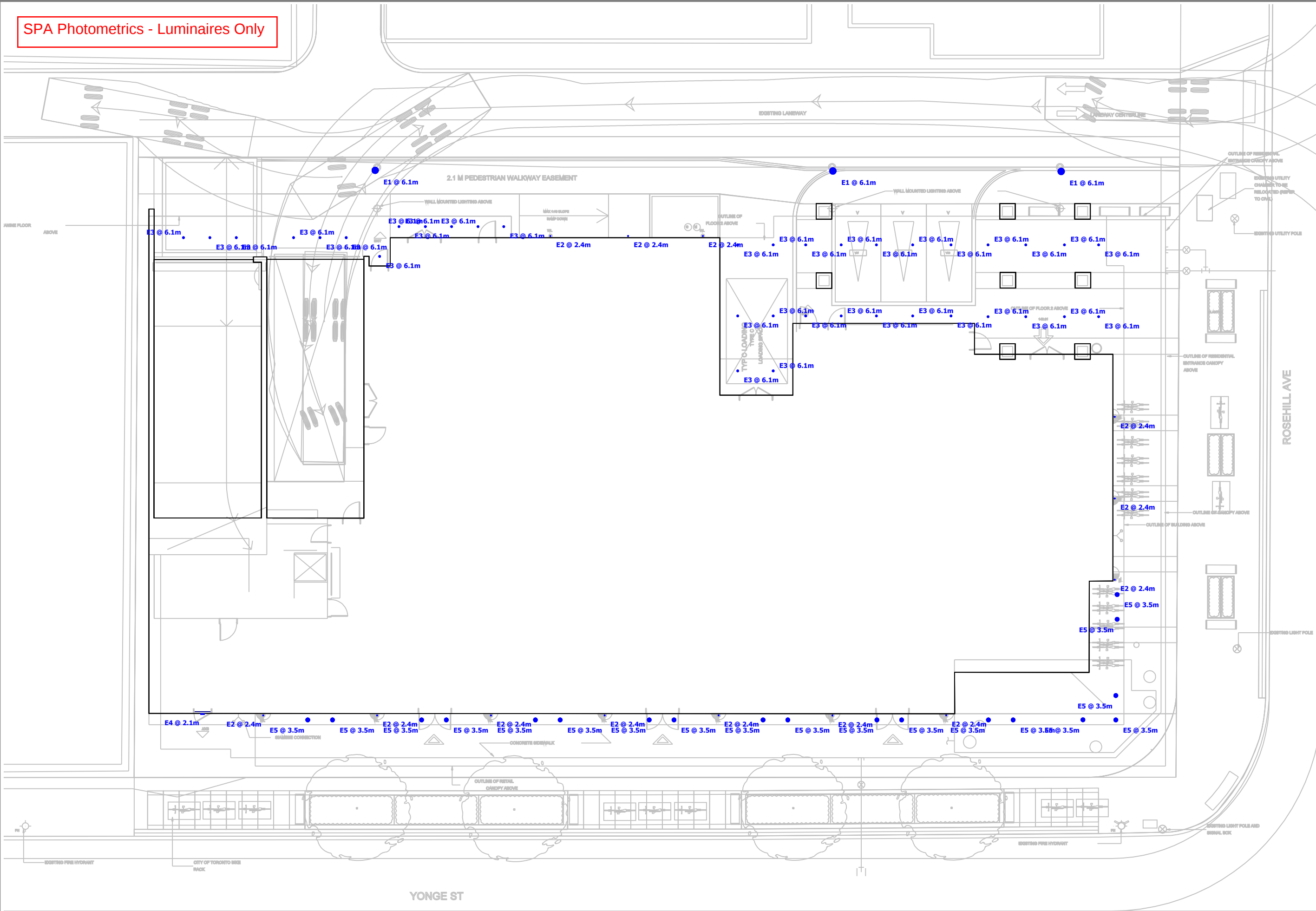


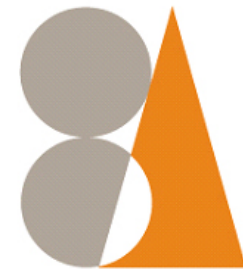
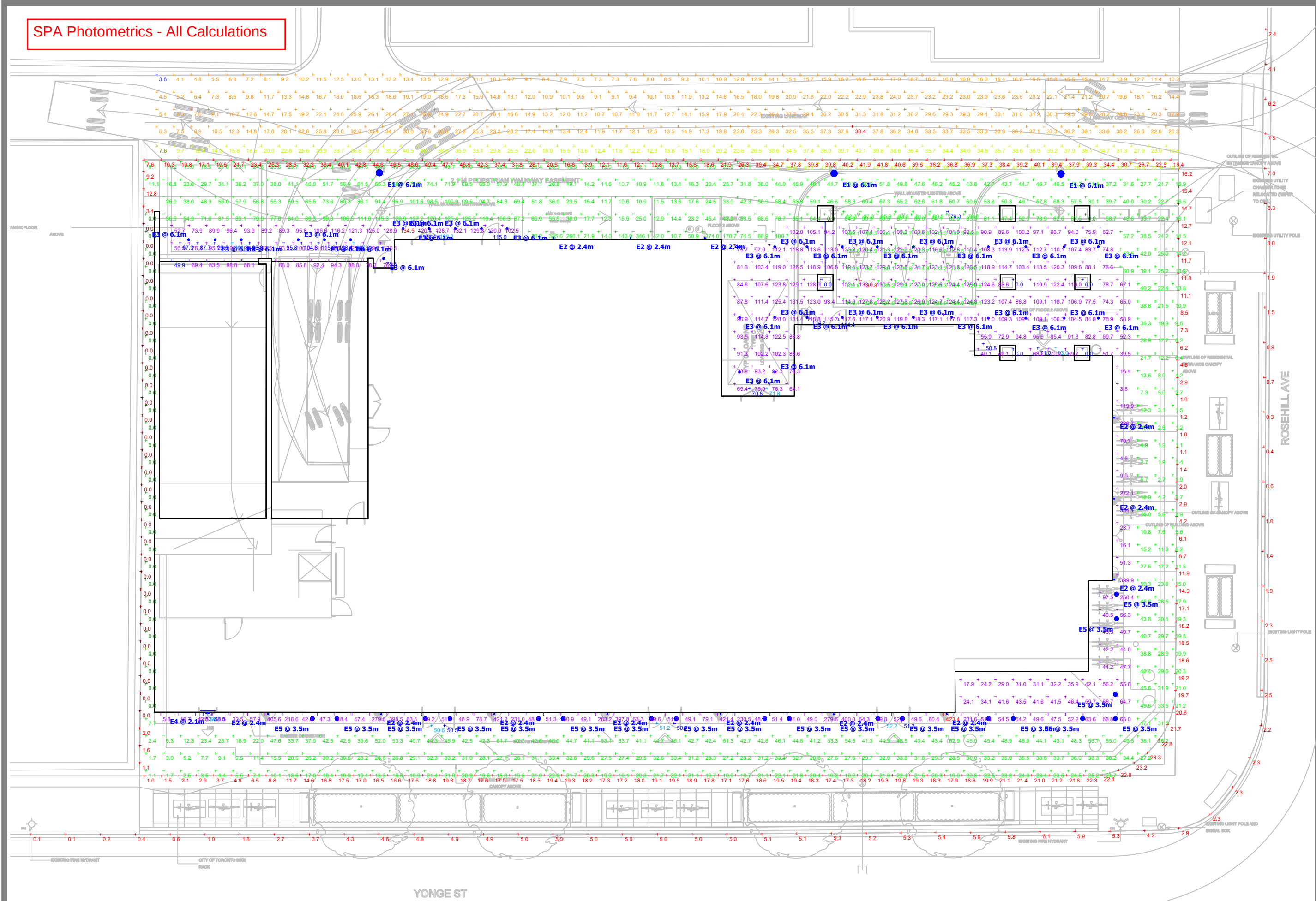


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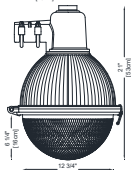
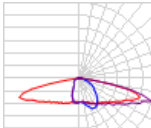
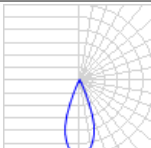
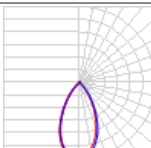
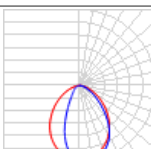
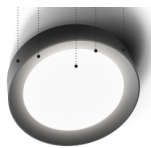
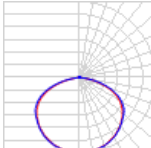
SPA Photometrics - All Calculations



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Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Entry/Exit	+	54.9 lux	56.0 lux	53.7 lux	1.0:1	1.0:1
Entry/Exit	+	115.0 lux	115.0 lux	115.0 lux	1.0:1	1.0:1
Entry/Exit	+	114.4 lux	114.4 lux	114.4 lux	1.0:1	1.0:1
Entry/Exit	+	71.3 lux	71.8 lux	70.8 lux	1.0:1	1.0:1
Entry/Exit	+	125.3 lux	129.2 lux	121.4 lux	1.1:1	1.0:1
Entry/Exit	+	50.5 lux	50.5 lux	50.5 lux	1.0:1	1.0:1
Entry/Exit	+	51.8 lux	52.2 lux	51.3 lux	1.0:1	1.0:1
Entry/Exit	+	50.5 lux	50.6 lux	50.5 lux	1.0:1	1.0:1
Entry/Exit	+	51.0 lux	51.2 lux	50.7 lux	1.0:1	1.0:1
Entry/Exit	+	72.0 lux	73.0 lux	71.0 lux	1.0:1	1.0:1
Entry/Exit	+	78.8 lux	78.8 lux	78.8 lux	1.0:1	1.0:1
Entry/Exit	+	114.2 lux	114.2 lux	114.2 lux	1.0:1	1.0:1
Entry_Vehicle	+	113.4 lux	127.2 lux	95.8 lux	1.3:1	1.2:1
Light Spill _ Curb Line	+	3.3 lux	7.5 lux	0.0 lux	N/A	N/A
Light Spill _ Property Line	+	17.2 lux	49.4 lux	0.0 lux	N/A	N/A
Pedestrian Walkway	+	37.7 lux	374.0 lux	0.0 lux	N/A	N/A
Roadway	+	18.8 lux	38.4 lux	3.6 lux	10.7:1	5.2:1
Pedestrian Walkway Easement	+	30.5 lux	42.5 lux	7.6 lux	5.6:1	4.0:1
Parking	+	113.6 lux	131.3 lux	79.3 lux	1.7:1	1.4:1
Under Canopy	+	98.6 lux	134.5 lux	49.9 lux	2.7:1	2.0:1
Under Canopy	+	100.6 lux	423.4 lux	0.0 lux	N/A	N/A
Entry_Vehicle	+	90.3 lux	101.0 lux	67.3 lux	1.5:1	1.3:1

Schedule											
Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
	E1		3	CYCLONE	JFSS2A-DP1GR-T1A-P40-30K	Torontonian LED wall mounted Roadway Light	1	6837	0.86	55.1	 Max: 3916cd
	E2		13	SISTEMALUX INC. MONTREAL, QUEBEC	S3950-830-45-14	SISTEMALUX MINI SLOT ROUND SUB ASSEMBLY LED ENGINE WITH FACETED SPECULAR REFLECTOR, CLEAR LENS NOTE Fixture to be provided with anthracite gray finish.	1	1106	0.86	13.85	 Max: 2674cd
	E3		36	GOTHAM	ICO4 30/15 AR LD 50D	INCITO 4 INCH DOWNLIGHT, ROUND, 3000K, 1500 LUMENS, CLEAR, MATTE DIFFUSE, 50 DEGREE BEAM, CRI80	1	1306	0.86	15.08	 Max: 1570cd
	E4		1	SISTEMALUX	S7201W.14	'Look' Exterior Wall Mounted LED. 24V White Warm 3000K	1	475	0.86	13.4	 Max: 273cd
	E5		19	Luminis Canada Inc.	SN800C-L1L11	Scena - Ceiling Round 8.5in	1	1180	0.86	13.9	 Max: 342cd

NOTE:
All specified fixtures specified meet Dark Sky Standards (3000K, Full Cutoff, etc.)

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Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Light Spill _ Curb Line	+	3.3 lux	7.5 lux	0.0 lux	N/A	N/A
Light Spill _ Property Line	+	17.2 lux	49.4 lux	0.0 lux	N/A	N/A

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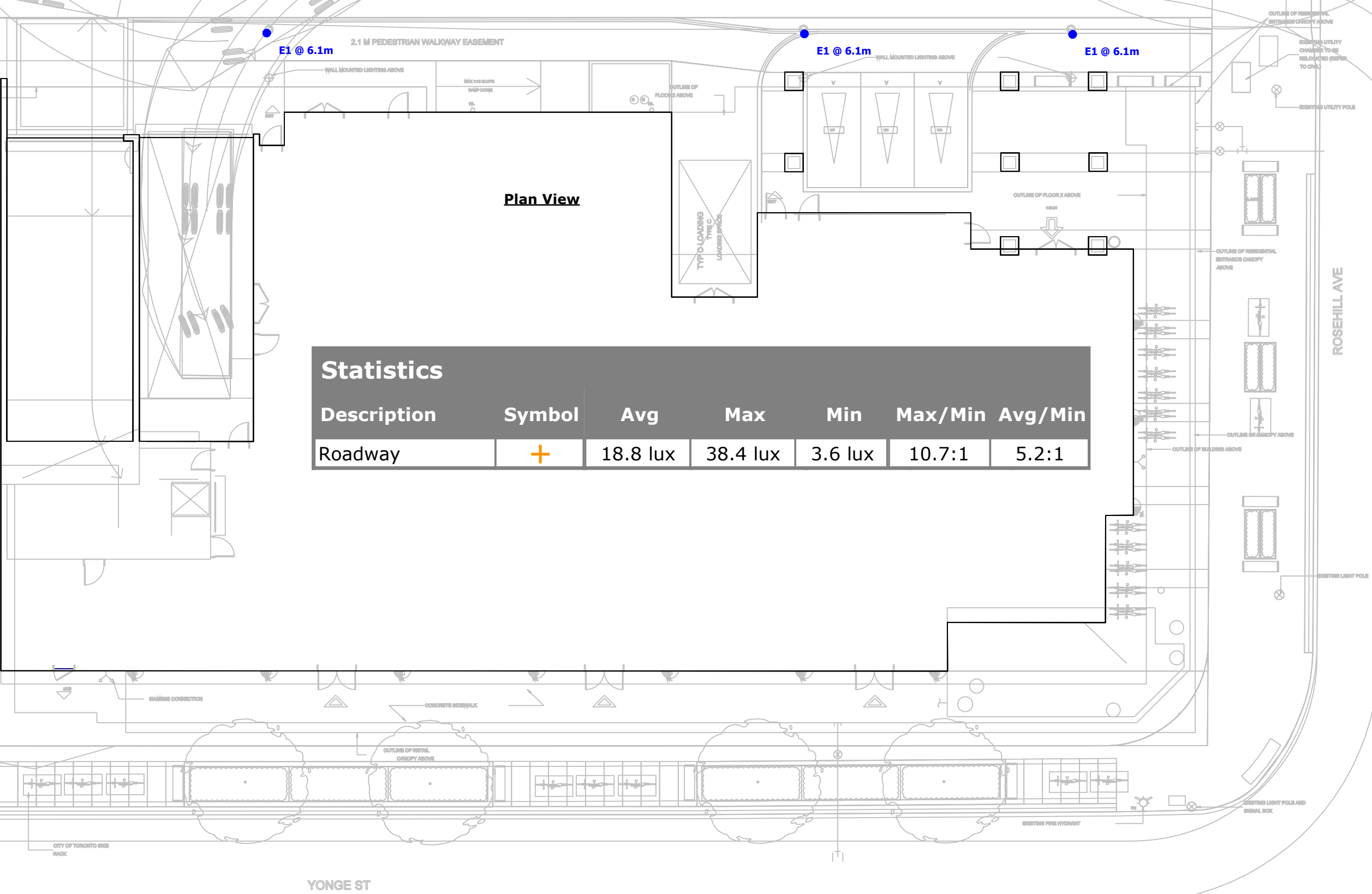
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Summary

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SPA Photometrics - Roadway Calculations Only

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4.5 5.2 6.4 7.3 8.5 9.8 11.7 13.3 14.8 16.7 18.0 18.6 18.3 18.6 19.1 19.0 18.6 17.3 15.9 14.8 13.1 12.0 10.9 10.1 9.5 9.1 9.1 9.4 10.1 10.8 11.9 13.2 14.8 16.5 18.0 19.8 20.9 21.8 22.0 22.2 22.9 23.8 24.0 23.7 23.2 23.2 23.0 23.0 23.6 23.6 23.2 22.1 21.4 21.2 20.7 19.6 18.1 16.2 14.4
5.4 6.3 7.6 9.1 10.7 12.6 14.7 17.5 19.2 22.1 24.6 25.9 26.1 26.4 27.1 26.6 24.9 22.7 20.7 18.4 16.6 14.9 13.2 12.0 11.2 10.7 10.7 11.0 11.7 12.7 14.1 15.9 17.9 20.4 22.8 25.1 27.7 29.4 30.2 30.5 31.3 31.8 31.2 30.2 29.6 29.3 29.3 29.4 30.1 31.0 31.2 30.3 29.5 29.2 28.7 25.8 23.1 20.3 17.9
6.3 7.5 8.9 10.5 12.3 14.8 17.0 20.1 22.6 25.8 30.0 32.6 33.4 34.1 35.0 33.6 30.8 27.8 25.3 23.2 20.2 17.4 14.9 13.4 12.4 11.9 11.7 12.1 12.5 13.5 14.9 17.3 19.8 23.0 25.3 28.3 32.5 35.5 37.3 37.6 38.4 37.8 36.2 34.0 33.5 33.7 33.5 33.3 33.8 36.2 37.1 37.3 36.2 36.1 33.6 30.2 26.0 22.8 20.3

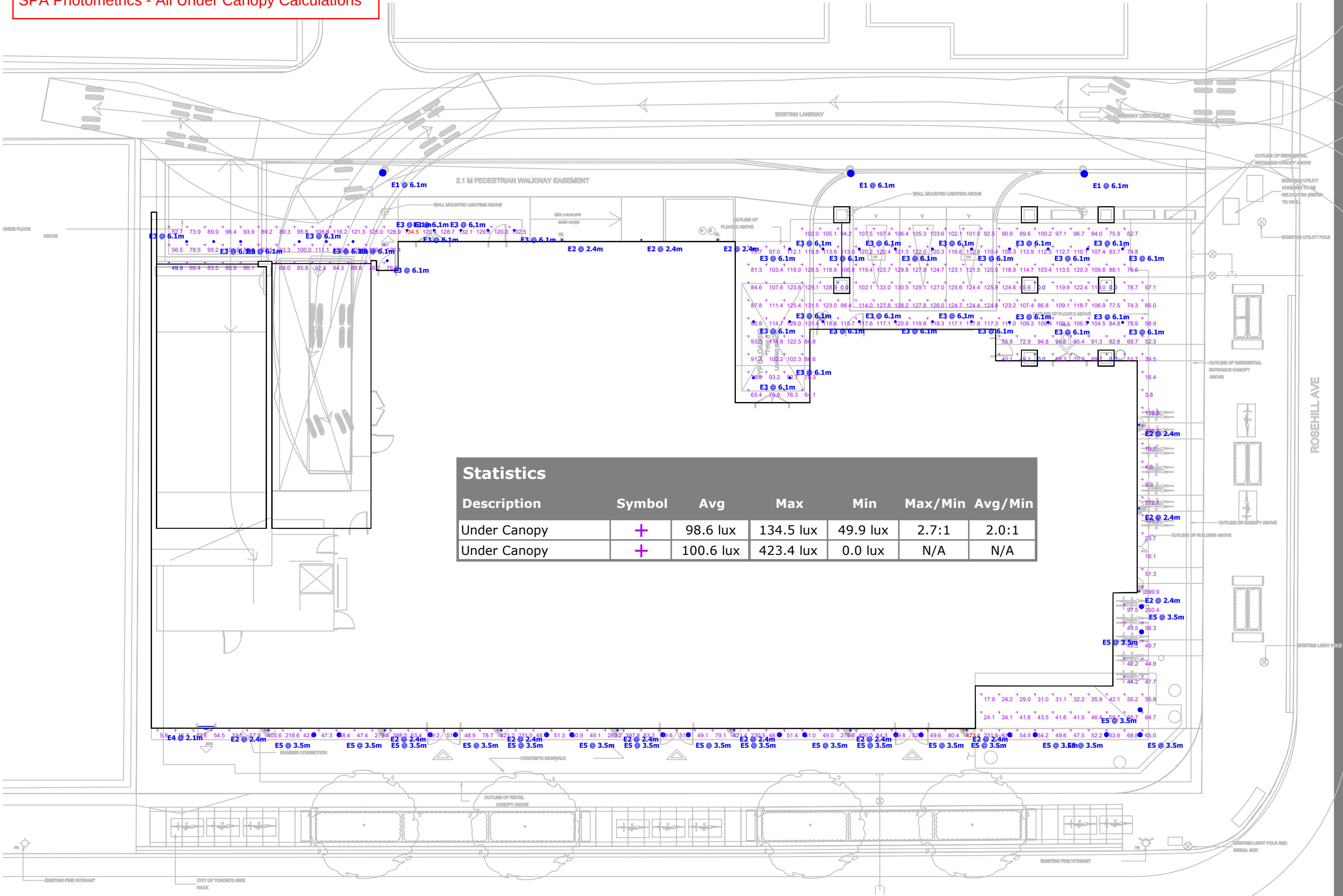


Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Roadway	+	18.8 lux	38.4 lux	3.6 lux	10.7:1	5.2:1



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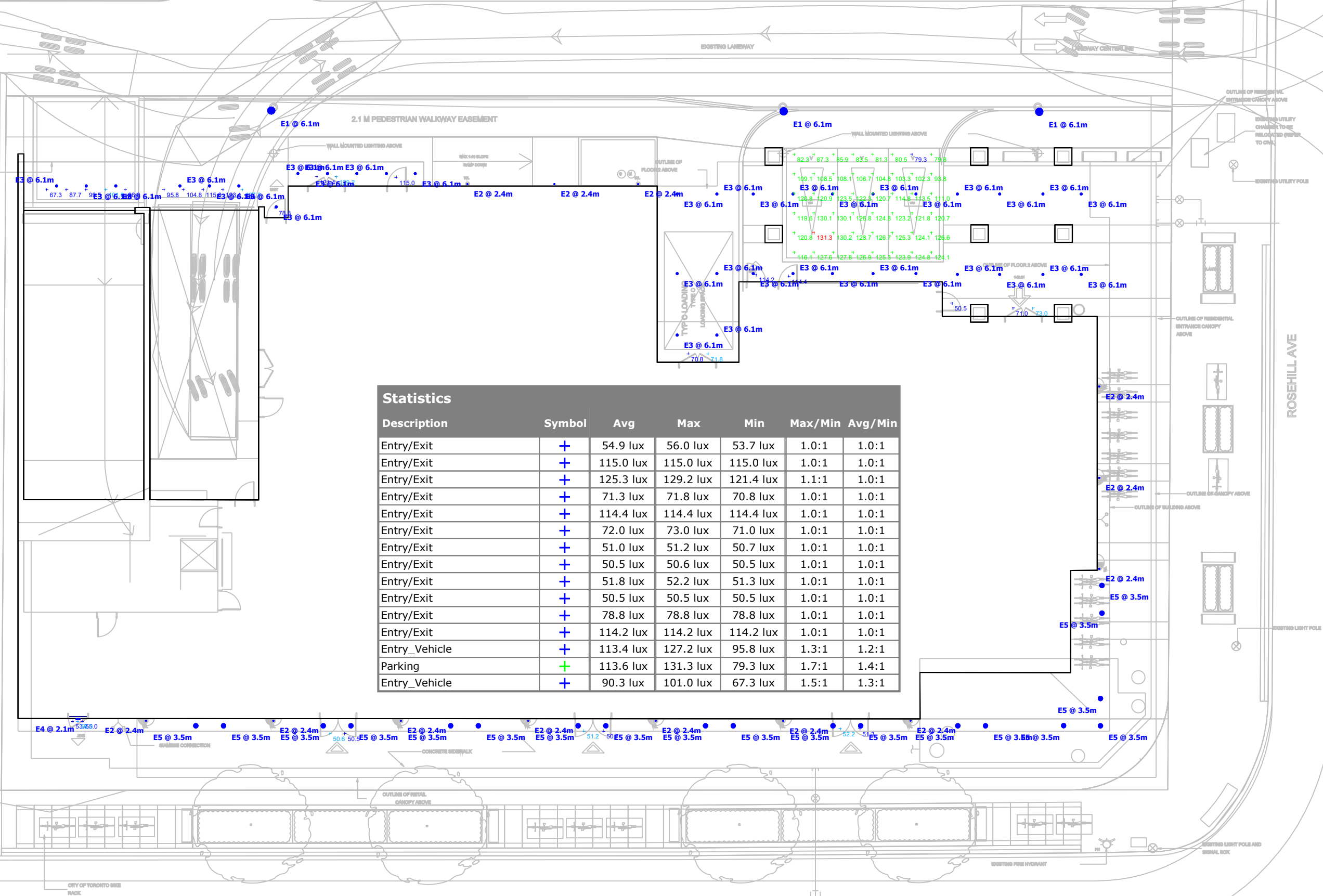
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Under Canopy	+	98.6 lux	134.5 lux	49.9 lux	2.7:1	2.0:1
Under Canopy	+	100.6 lux	423.4 lux	0.0 lux	N/A	N/A

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Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Entry/Exit	+	54.9 lux	56.0 lux	53.7 lux	1.0:1	1.0:1
Entry/Exit	+	115.0 lux	115.0 lux	115.0 lux	1.0:1	1.0:1
Entry/Exit	+	125.3 lux	129.2 lux	121.4 lux	1.1:1	1.0:1
Entry/Exit	+	71.3 lux	71.8 lux	70.8 lux	1.0:1	1.0:1
Entry/Exit	+	114.4 lux	114.4 lux	114.4 lux	1.0:1	1.0:1
Entry/Exit	+	72.0 lux	73.0 lux	71.0 lux	1.0:1	1.0:1
Entry/Exit	+	51.0 lux	51.2 lux	50.7 lux	1.0:1	1.0:1
Entry/Exit	+	50.5 lux	50.6 lux	50.5 lux	1.0:1	1.0:1
Entry/Exit	+	51.8 lux	52.2 lux	51.3 lux	1.0:1	1.0:1
Entry/Exit	+	50.5 lux	50.5 lux	50.5 lux	1.0:1	1.0:1
Entry/Exit	+	78.8 lux	78.8 lux	78.8 lux	1.0:1	1.0:1
Entry/Exit	+	114.2 lux	114.2 lux	114.2 lux	1.0:1	1.0:1
Entry_Vehicle	+	113.4 lux	127.2 lux	95.8 lux	1.3:1	1.2:1
Parking	+	113.6 lux	131.3 lux	79.3 lux	1.7:1	1.4:1
Entry_Vehicle	+	90.3 lux	101.0 lux	67.3 lux	1.5:1	1.3:1

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